

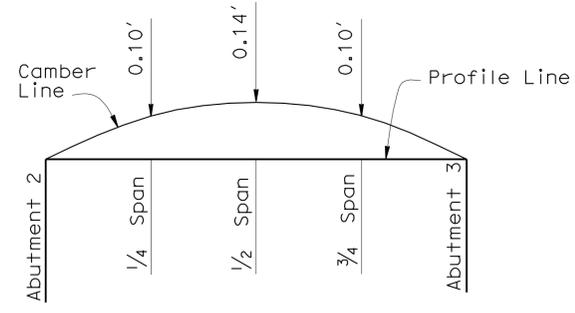
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 402 | 602 |

REGISTERED CIVIL ENGINEER DATE 3-2-11
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE 6-27-11
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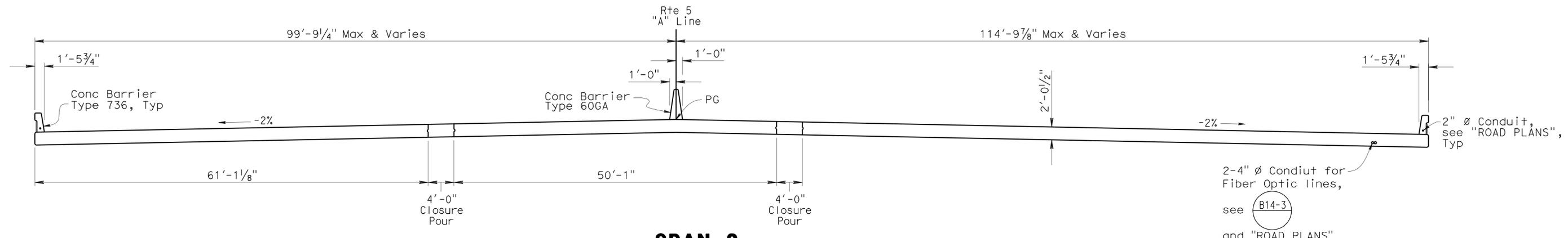
FALSEWORK RELEASE

Alternative 1:
 Falsework shall be released as soon as permitted by the specifications. Closure pour shall not be placed sooner than 60 days after falsework had been released.

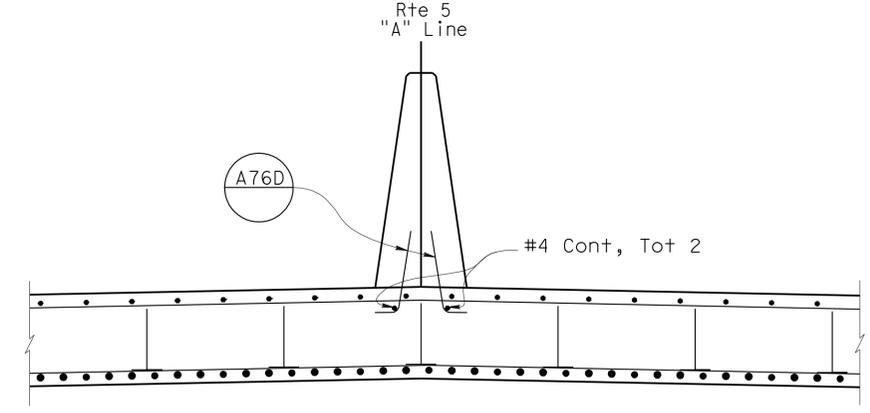
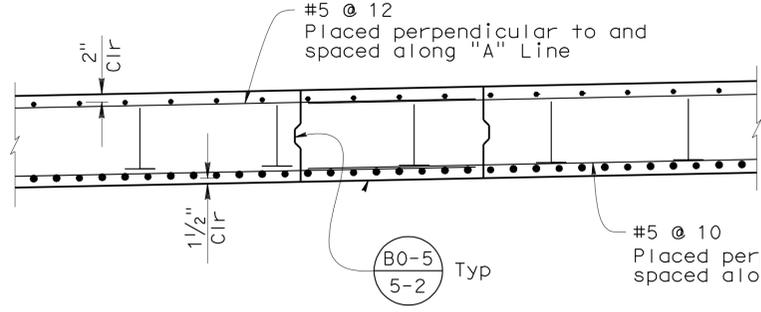
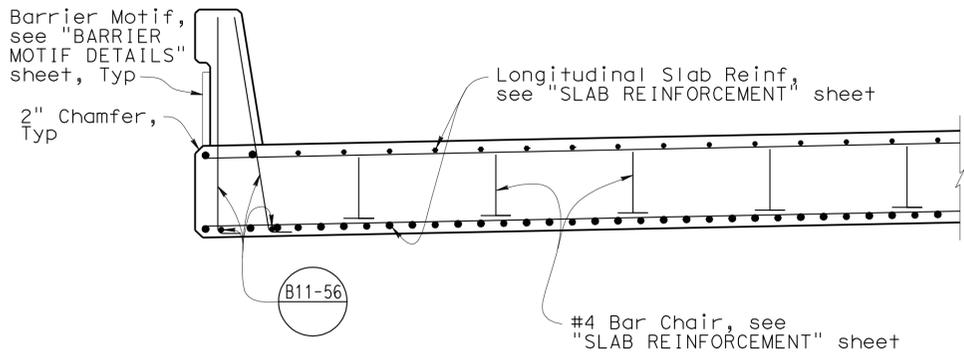
Alternative 2:
 Falsework shall not be released less than 28 days after the last concrete has been placed. Closure pour shall not be placed sooner than 14 days after the falsework has been released. When Falsework Release Alternative 2 is used, camber value are 0.75 times those shown.



CAMBER DIAGRAM
NO SCALE



SPAN 2 TYPICAL SECTION
1/8" = 1'-0"



SPAN 2 PART TYPICAL SECTION
1/2" = 1'-0"

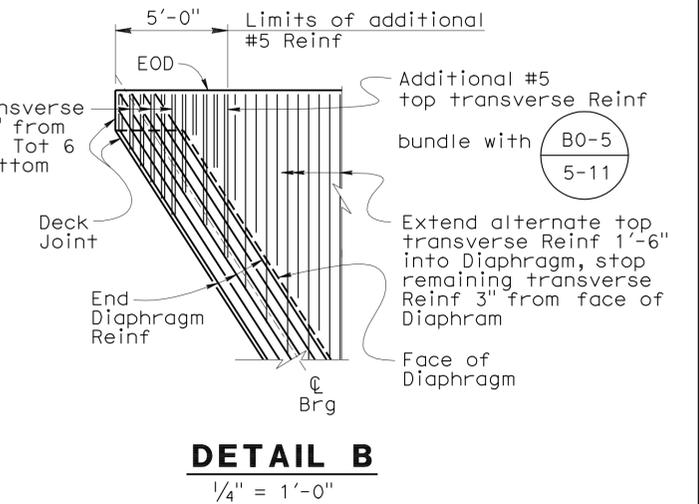
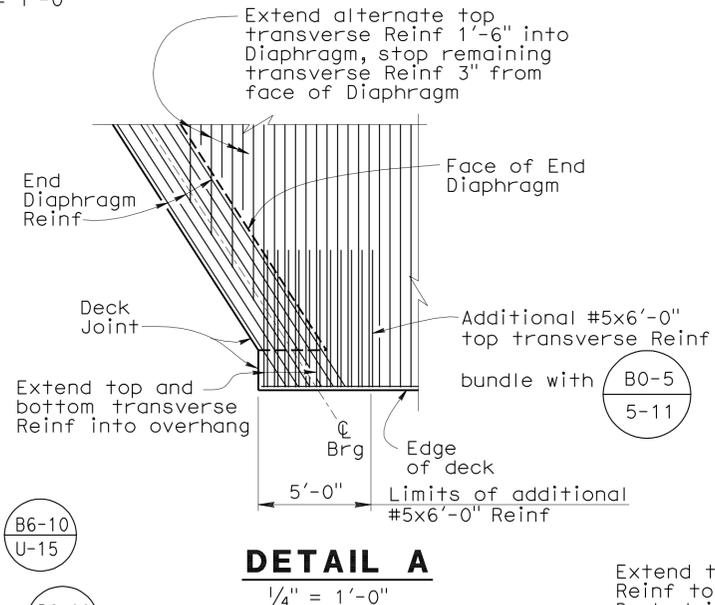
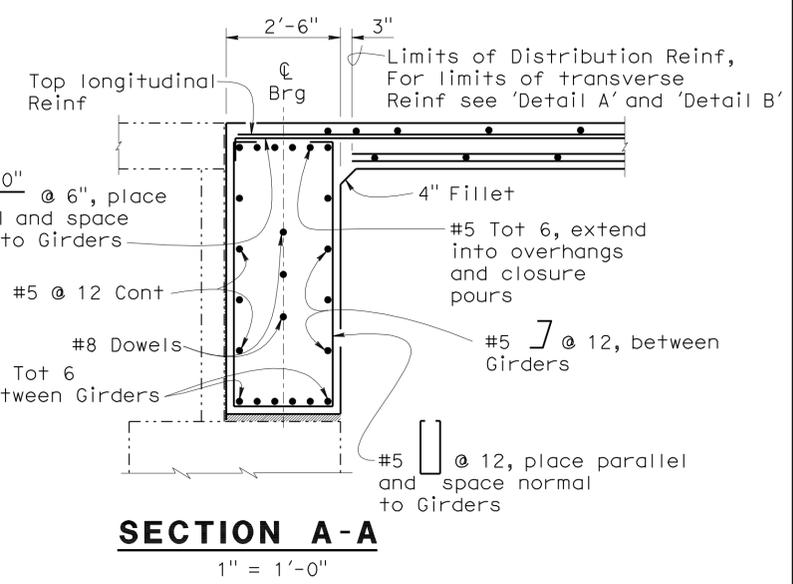
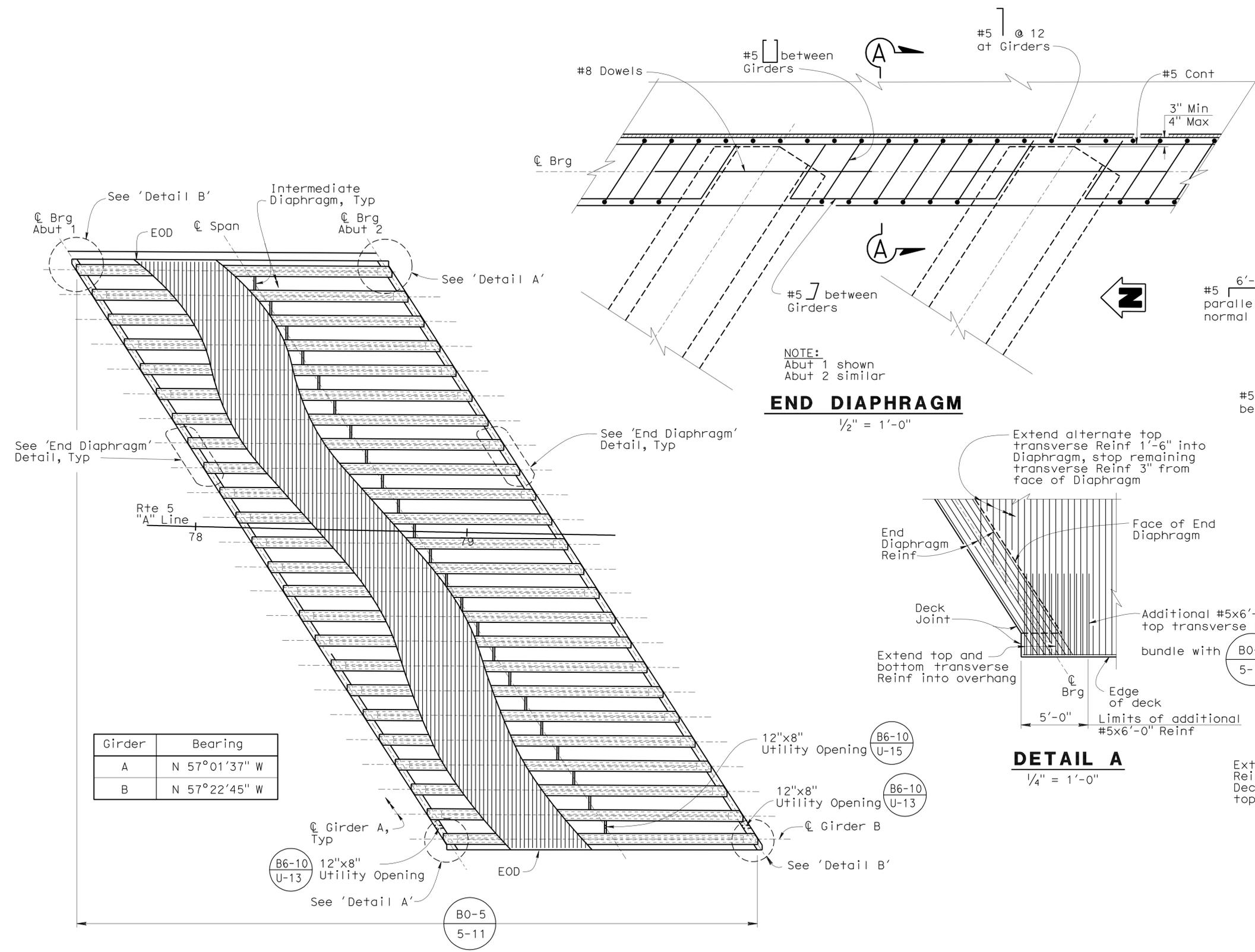
| | | |
|------------|-----------------|-------------------------|
| DESIGN | BY Karen Doll | CHECKED Mohey El-Mously |
| DETAILS | BY Pauline Tong | CHECKED Mohey El-Mously |
| QUANTITIES | BY Mark Okimura | CHECKED Yeoo Yoon |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

| | |
|------------|---------|
| BRIDGE NO. | 53-3037 |
| POST MILE | 1.47 |

N. FORK COYOTE CRK BR (REPLACEMENT)
CIP/RC SLAB TYPICAL SECTION

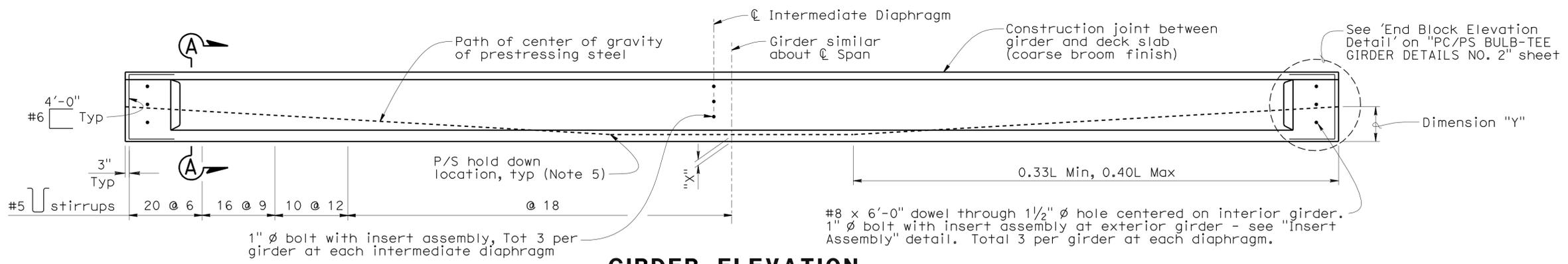


PLAN
1" = 20'-0"

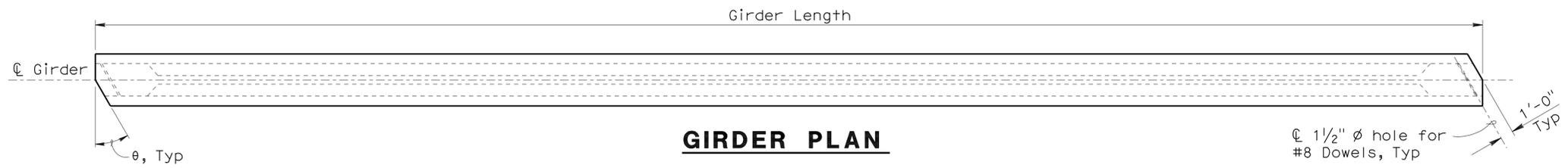
| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 404 | 602 |

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PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



GIRDER ELEVATION



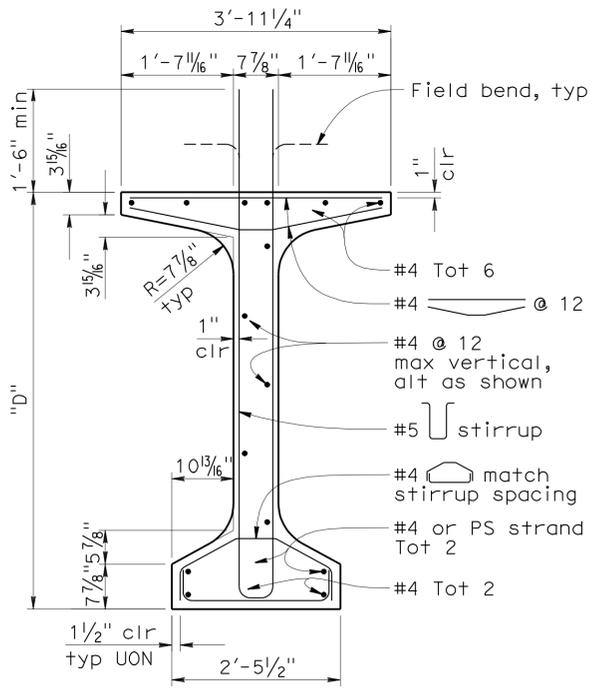
GIRDER PLAN

| Location | Girder Length | "D" | "X" (in) | Jacking Force (P) (kips) | As, min (in ²) | "Y" (in) | Concrete Strength (ksi) | | Instantaneous Midspan Dead Load Deflection (in) | | θ |
|----------|---------------|-----------|----------|--------------------------|----------------------------|----------|-------------------------|-----|-------------------------------------------------|------|-----------|
| | | | | | | | f'ci | f'c | Deck | Rail | |
| Girder A | 116'-3 1/2"± | 5'-6 7/8" | 5.75 | 1850 | 9.14 | 18.25 | 5.5 | 7 | 1.30 | 0.05 | 56°46'20" |
| Girder B | 115'-10"± | 5'-6 7/8" | 5.75 | 1850 | 9.14 | 18.25 | 5.5 | 7 | 1.30 | 0.05 | 57°07'30" |

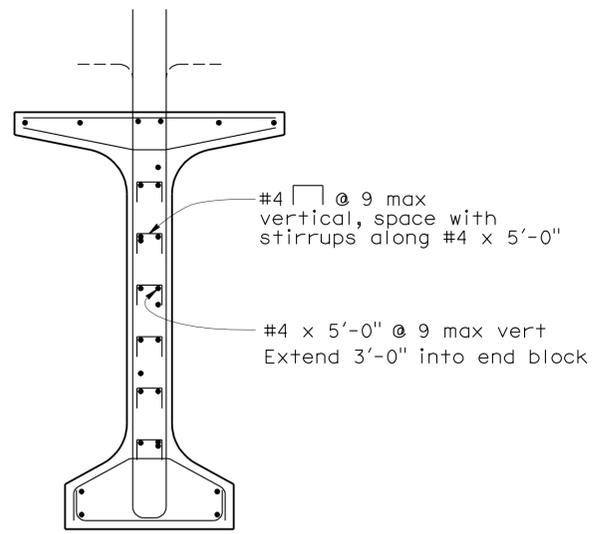
NOTES: 1. For Girder locations, see "GIRDER LAYOUT" sheet.
 2. Girder ends to be cast such that a level surface is provided at bearing pads.

PRESTRESSING NOTES:

- Jacking Force (P):
The jacking force required at the point of control along the span. The jacking force does not include any fabrication specific losses.
- Concrete strength:
f'ci is at time of initial stressing.
f'c is at 28 days.
- Deflection components are informational and will be used to set screed line elevations.
- Screed line elevations for deck concrete will be determined by the Engineer.
- There shall be a minimum of two hold downs per girder for the prestressing.
- Prestressing strand shall be 270 ksi low relaxation.
- As, min is the minimum area required of prestressing steel.

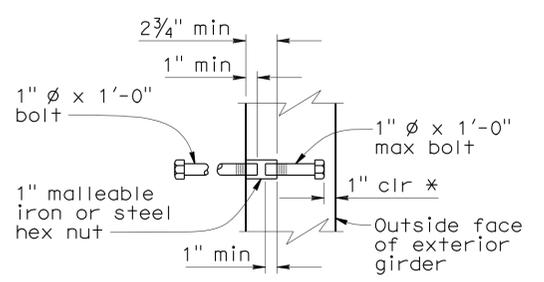


TYPICAL GIRDER SECTION



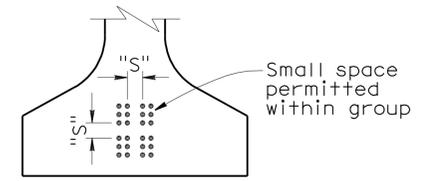
Note: For details shown but not noted, see "Typical Girder Section" detail.

SECTION A-A



* Dimension may be increased when insert assembly is used at end block

INSERT ASSEMBLY



CLEARANCES FOR PRETENSIONED STRANDS

NOTES:

- Strands may be bundled in groups consisting of 3 vertically, 2 horizontally, and separated at the ends.
- The minimum distance "S" between groups or individual strands is 1 3/4" for 0.5" diameter strand and 2" for 0.6" diameter strand.
- "S" is measured between centers of adjacent strands.
- Approval by Engineer is required for deviation.

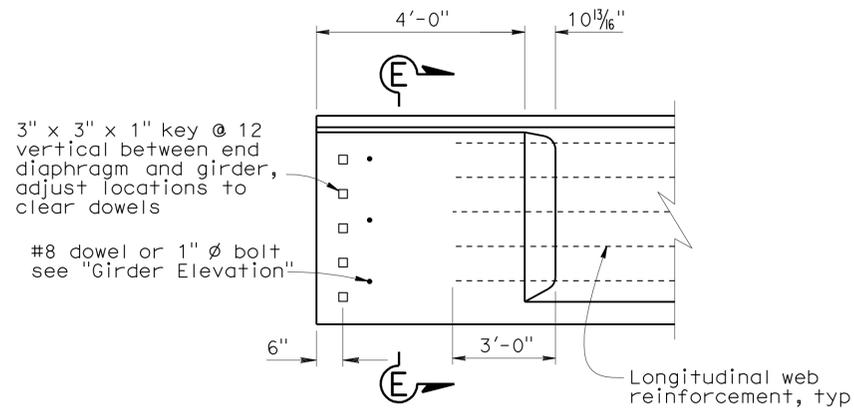
NO SCALE

| | | | | | | | | | | |
|--------|------------|------------|--------------|-----------------|-----------------------------------------------------|---------------------------------------------------------------------------------|-----------------|----------------|------------------------------------------------------------------------------------|------|
| DESIGN | BY | Karen Doll | CHECKED | Mohey El-Mously | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | 53-3037 | N. FORK COYOTE CRK BR (REPLACEMENT) PC/PS BULB-TEE GIRDER DETAILS NO. 1 | |
| | DETAILS | BY | Pauline Tong | CHECKED | | | Mohey El-Mously | POST MILE | | 1.47 |
| | QUANTITIES | BY | Mark Okimura | CHECKED | | | Yeo Yoon | REVISION DATES | | |

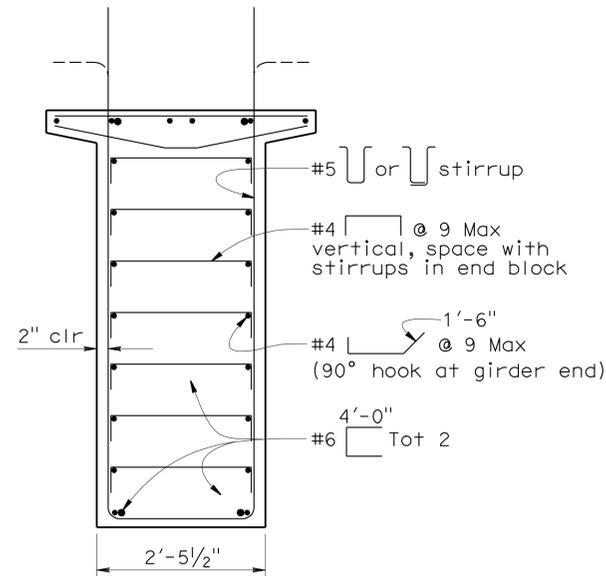
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 CU 07227 EA 215911 DISREGARD PRINTS BEARING EARLIER REVISION DATES 8-17-09 2-22-10 4-13-10 5-5-10 SHEET 18 OF 31

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 405 | 602 |

Phu Vong Nguyen 3-2-11
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 6-27-11
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END BLOCK - ELEVATION

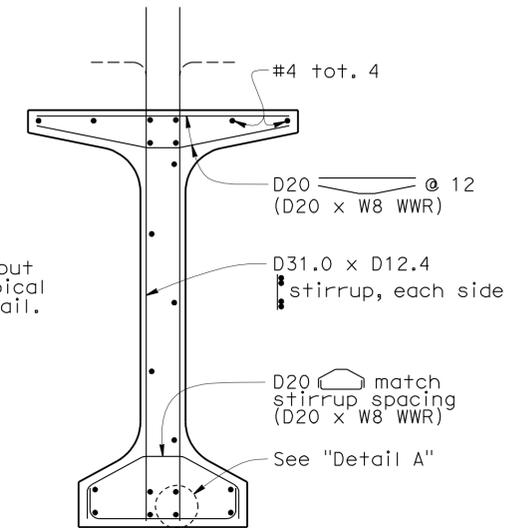


NOTE: For details shown but not noted, see "Typical Girder Section" detail.

SECTION E-E

NOTES:

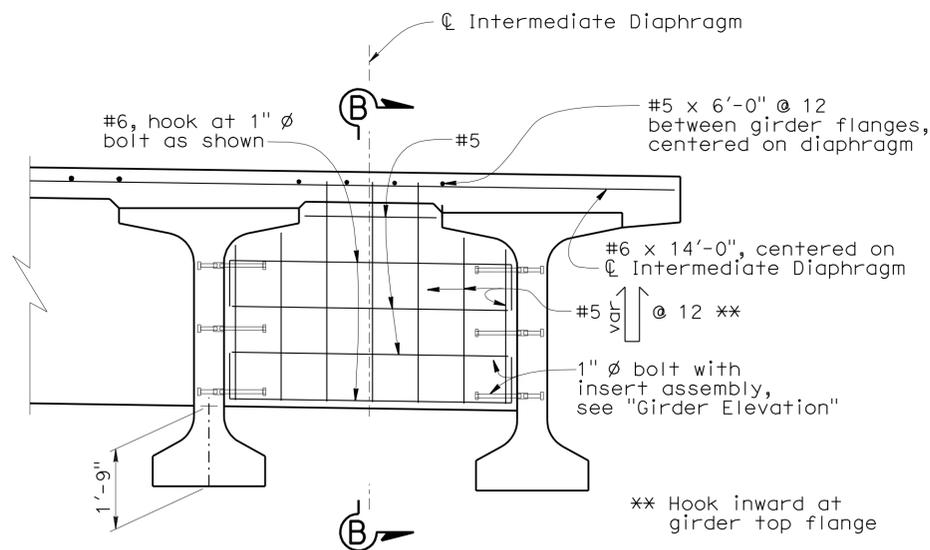
1. For details shown but not noted, see "Typical Girder Section" detail.
2. W8 WWR not shown.



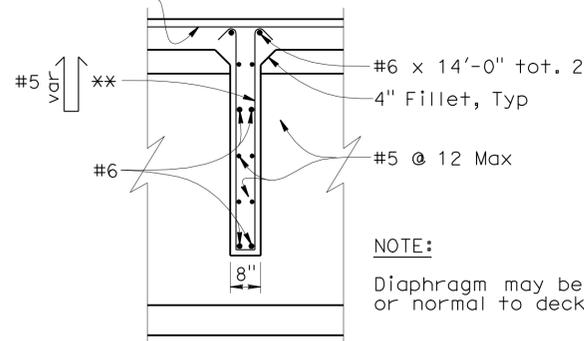
OPTIONAL WELDED WIRE REINFORCEMENT (WWR) DETAIL

Note

For "Girder Elevation" and "Typical Girder Section", see "PC/PS BULB-TEE GIRDER DETAILS NO. 1" sheet.



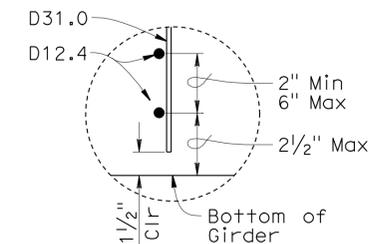
INTERMEDIATE DIAPHRAGM



NOTE:

Diaphragm may be vertical or normal to deck grade.

SECTION B-B



DETAIL A

NOTES:

1. Bottom of stirrup WWR detail shown, top similar.
2. Longitudinal wire area shall be 40% or greater of vertical deformed wire's area.

NO SCALE

| | | |
|------------|-----------------|-------------------------|
| DESIGN | BY Karen Doll | CHECKED Mohey El-Mously |
| DETAILS | BY Pauline Tong | CHECKED Mohey El-Mously |
| QUANTITIES | BY Mark Okimura | CHECKED Yeo Yoon |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

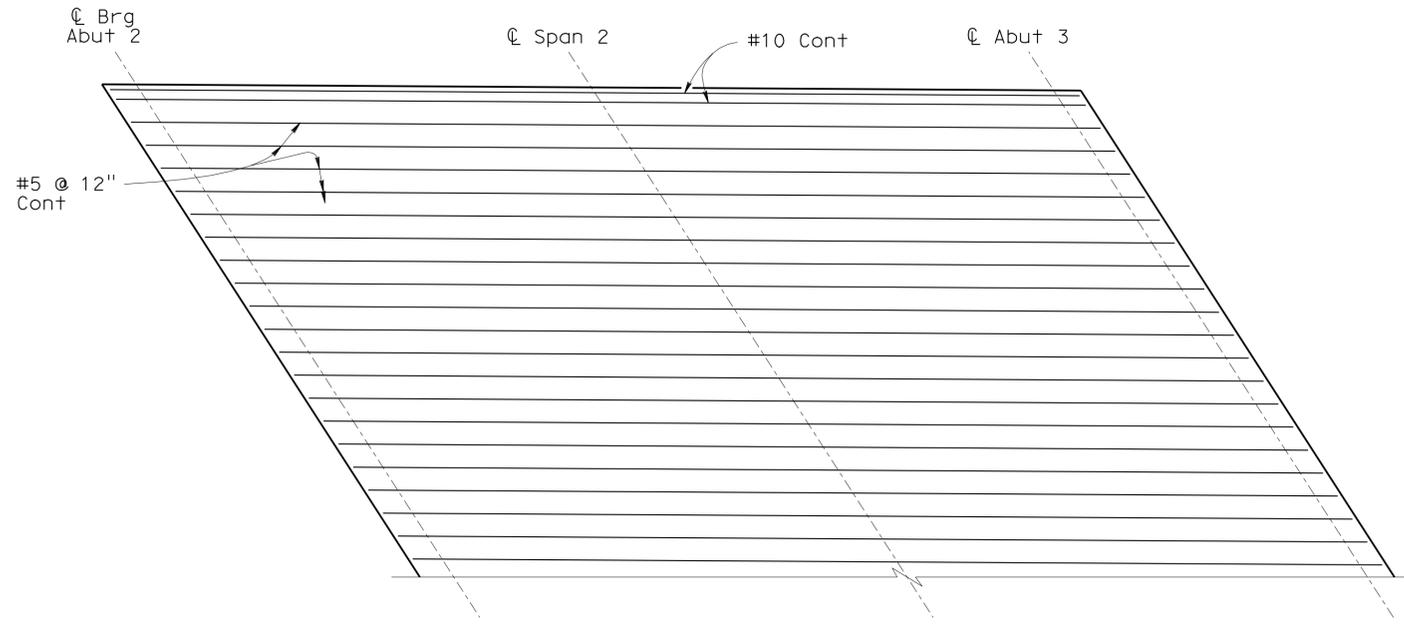
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

| | |
|------------|---------|
| BRIDGE NO. | 53-3037 |
| POST MILE | 1.47 |

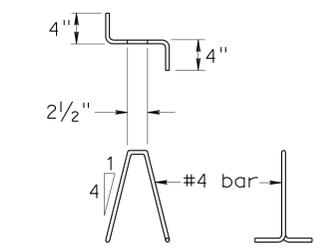
N. FORK COYOTE CRK BR (REPLACEMENT)
PC/PS BULB-TEE GIRDER DETAILS NO. 2

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 406 | 602 |

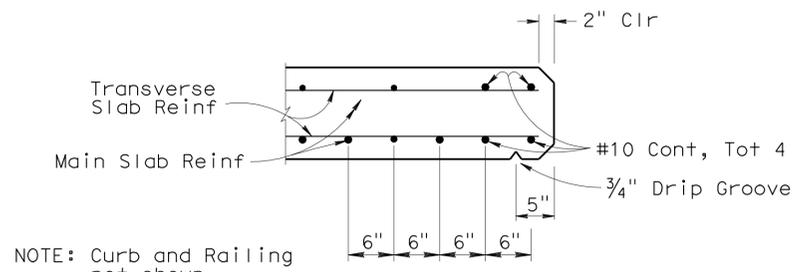
Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 No. 60358
 Exp. 6-30-12
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 STATE OF CALIFORNIA
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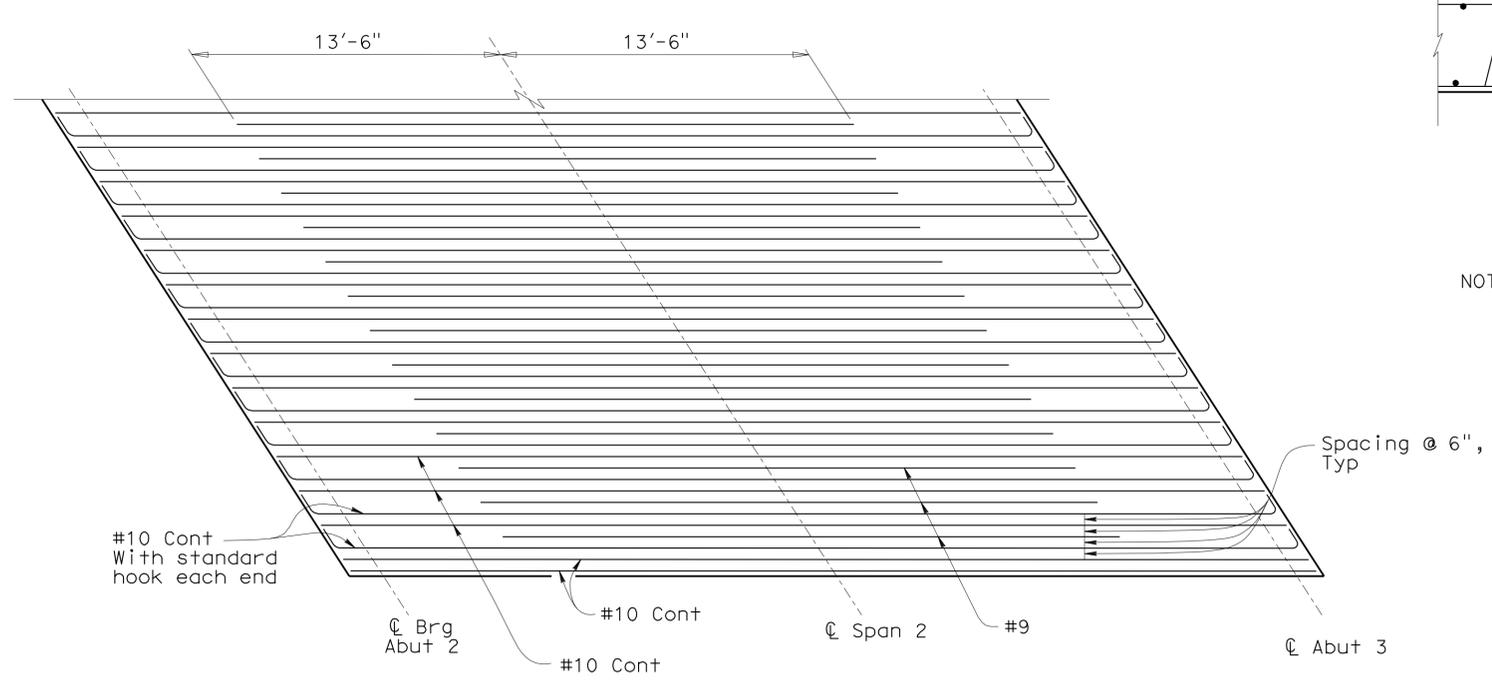
PART PLAN - TOP SLAB REINFORCEMENT
1/4" = 1'-0"



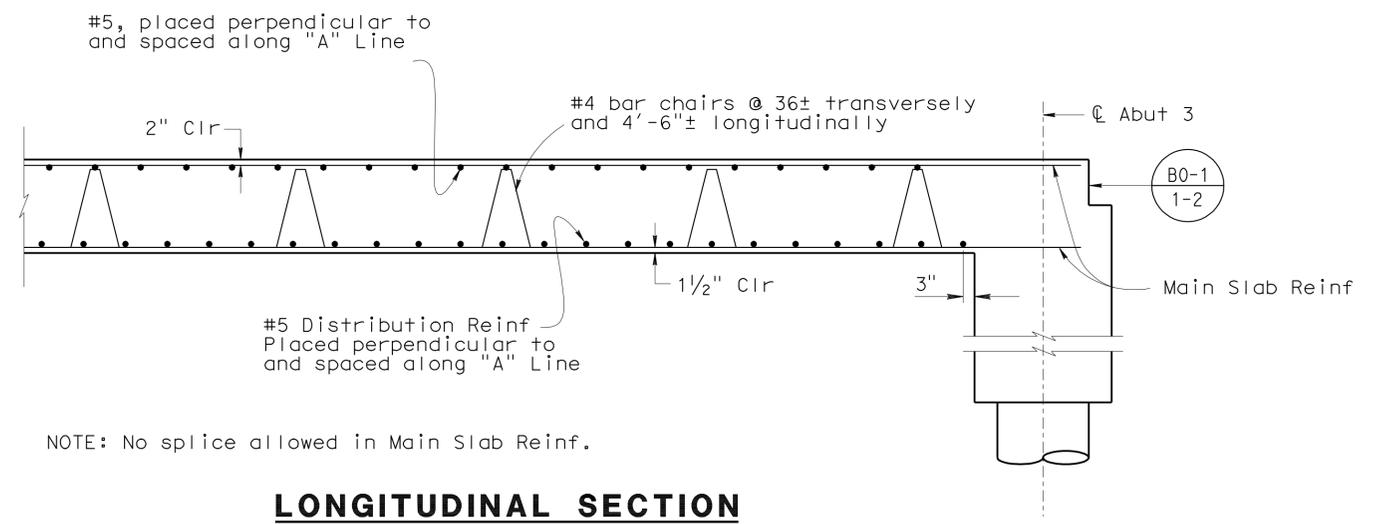
BAR CHAIR DETAIL
NO SCALE



EDGE OF SLAB DETAILS
NO SCALE



PART PLAN - BOTTOM SLAB REINFORCEMENT
1/4" = 1'-0"



LONGITUDINAL SECTION
1/2" = 1'-0"

NOTE: No splice allowed in Main Slab Reinf.

| | | |
|------------|-----------------|-------------------------|
| DESIGN | BY Karen Doll | CHECKED Mohey El-Mously |
| DETAILS | BY Pauline Tong | CHECKED Mohey El-Mously |
| QUANTITIES | BY Mark Okimura | CHECKED Yeo Yoon |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

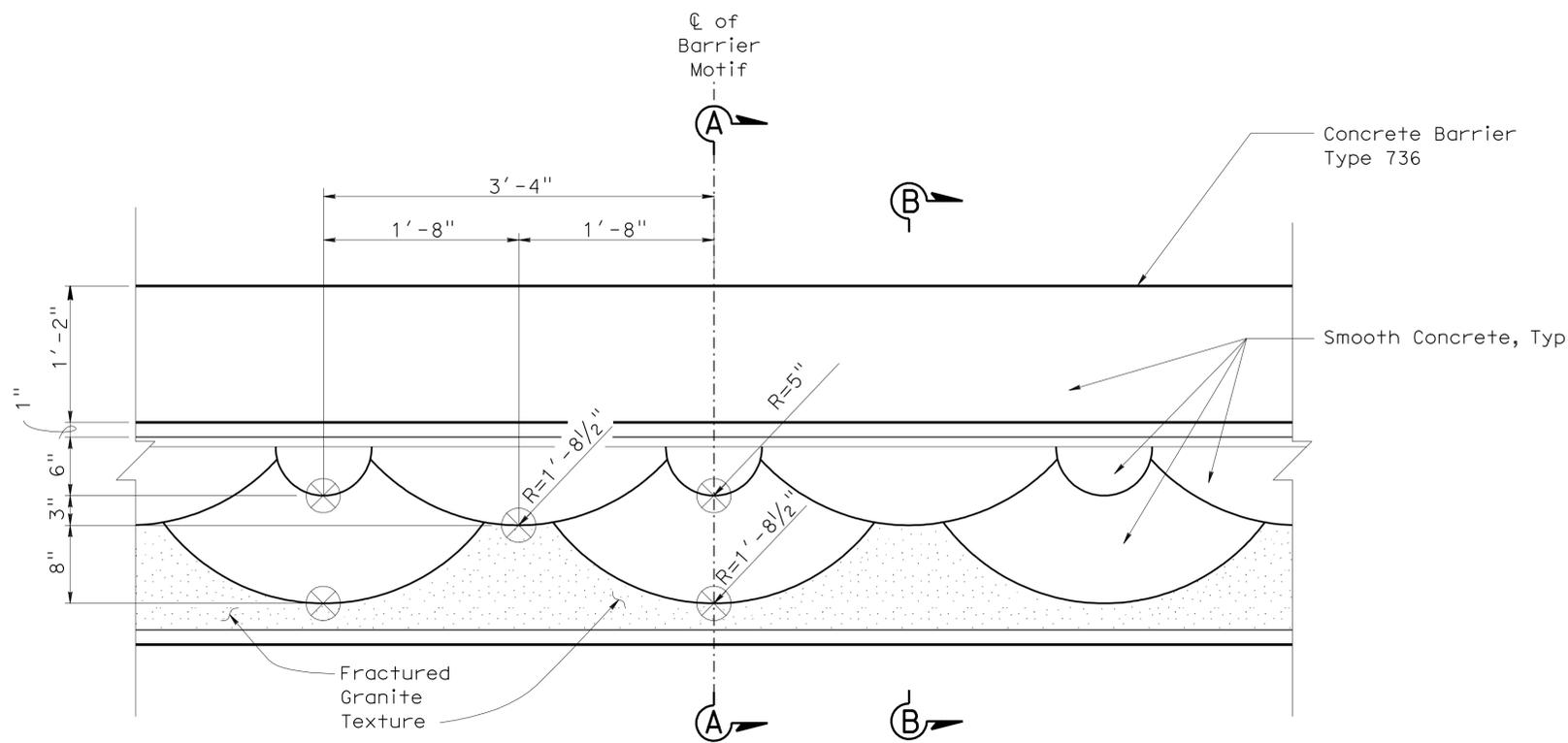
| | |
|------------|---------|
| BRIDGE NO. | 53-3037 |
| POST MILE | 1.47 |

N. FORK COYOTE CRK BR (REPLACEMENT)
SLAB REINFORCEMENT

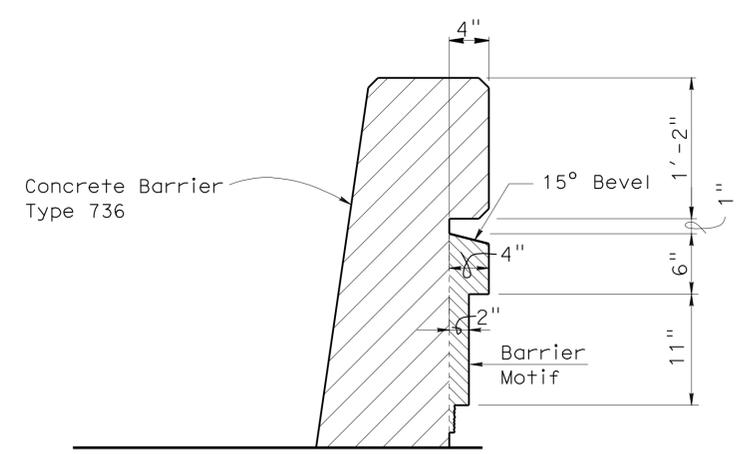
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 407 | 602 |

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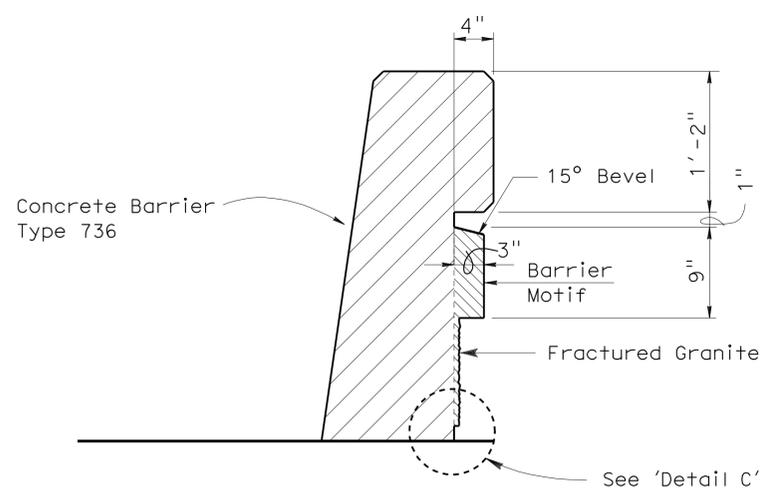
REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



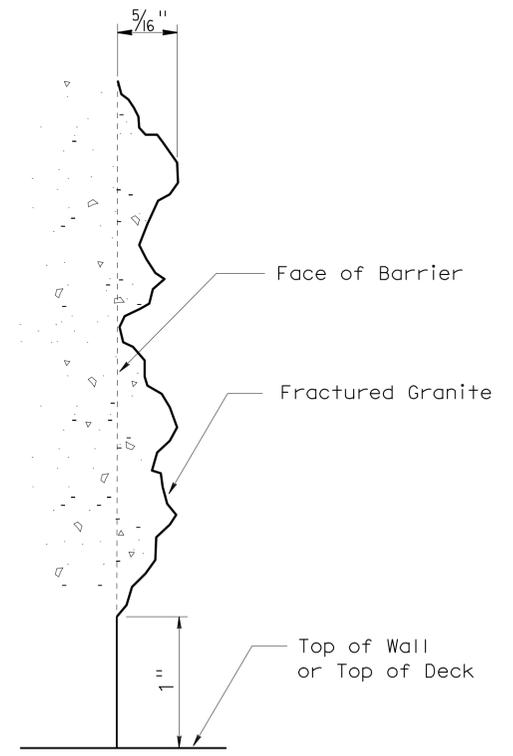
ELEVATION - BARRIER MOTIF
No Scale



SECTION A-A
No Scale



SECTION B-B
No Scale



DETAIL C
No Scale

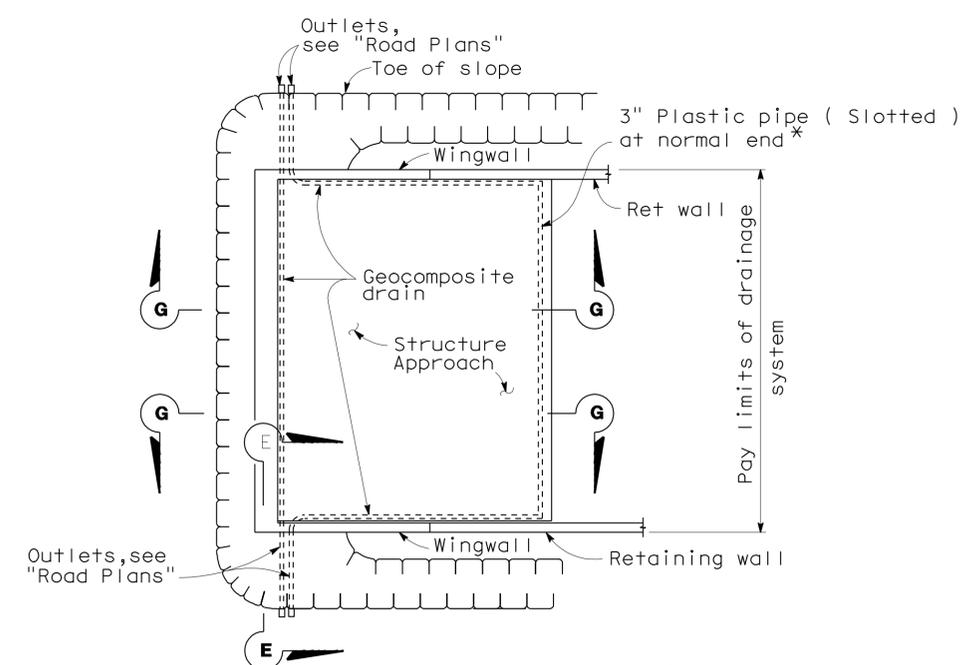
| | | | | | | | | | |
|----------------------------------------------------------|------------|---------------------|--------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------|---------|----------------------------------------------------------------------------|----------------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN | BY H. Javier Chavez | CHECKED Isaac Tasabia | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | 53-3037 | N. FORK COYOTE CRK BR (REPLACEMENT) BARRIER MOTIF DETAILS | |
| | DETAILS | BY Loren Goldthwait | CHECKED H. Javier Chavez | | | POST MILE | 1.47 | | |
| | QUANTITIES | BY Mark Okimura | CHECKED Yeo Yoon | | | | | | |
| | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | 0 1 2 3 | CU 07227 EA 215911 | | REVISION DATES | SHEET 21 OF 31 |

USERNAME => s124496 DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 18:04

| DIST. | COUNTY | ROUTE | MILE POST TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|-------|--------|-------|-------------------------|-----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 408 | 602 |

Phu V. Nguyen 3-2-11
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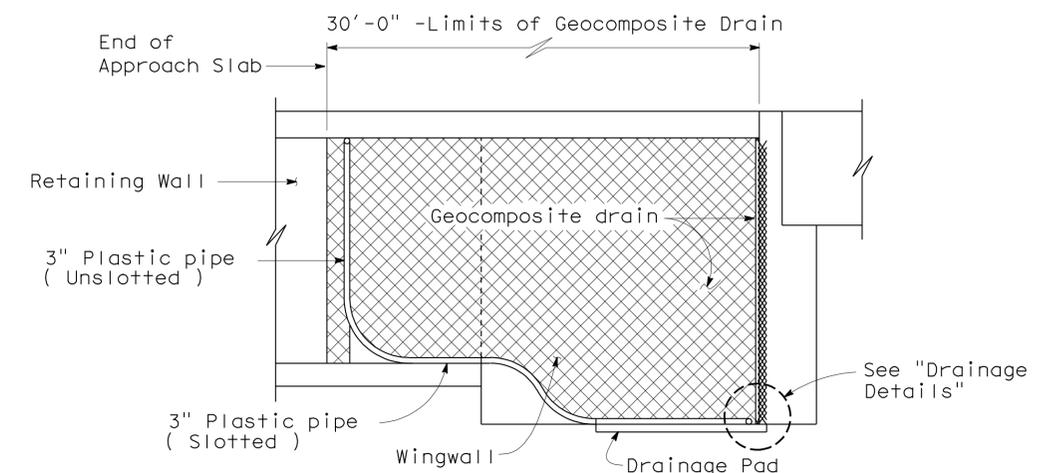
6-27-11
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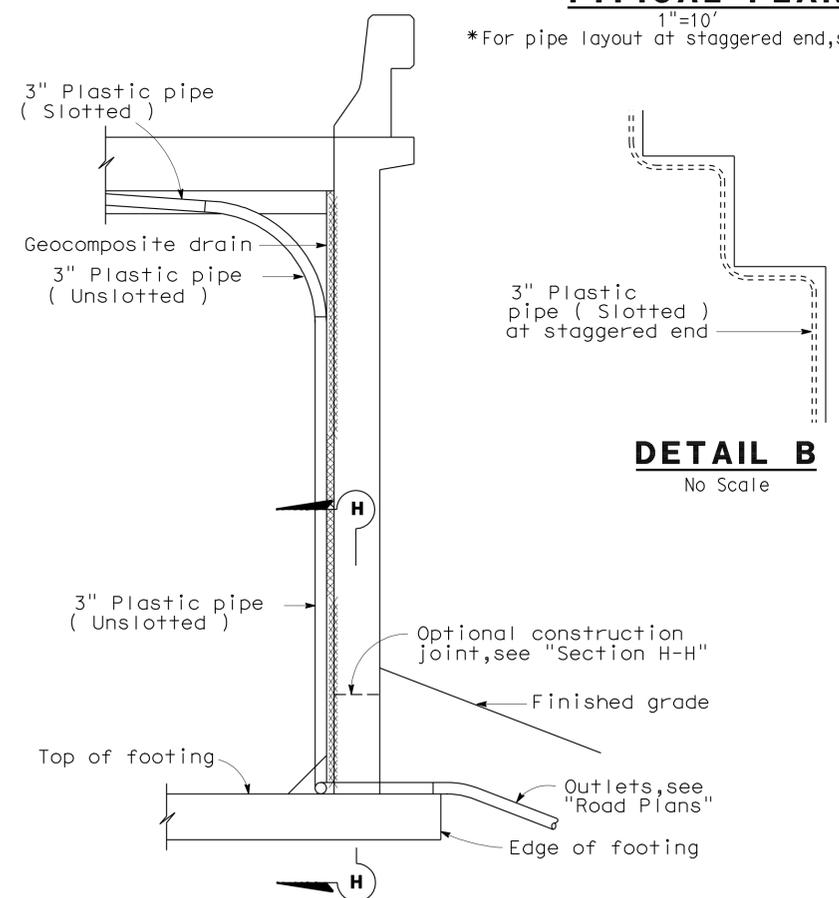
TYPICAL PLAN
1/4"=1'-0"

*For pipe layout at staggered end, see "Detail B".

CANTILEVER WINGWALL SECTION F-F
1/4"=1'-0"

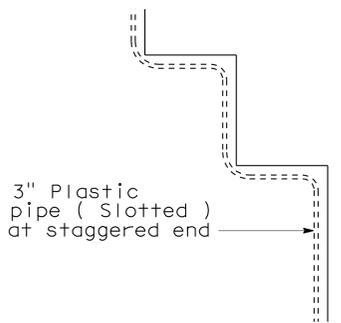


RETAINING WALL WINGWALL SECTION G-G
1/4"=1'-0"

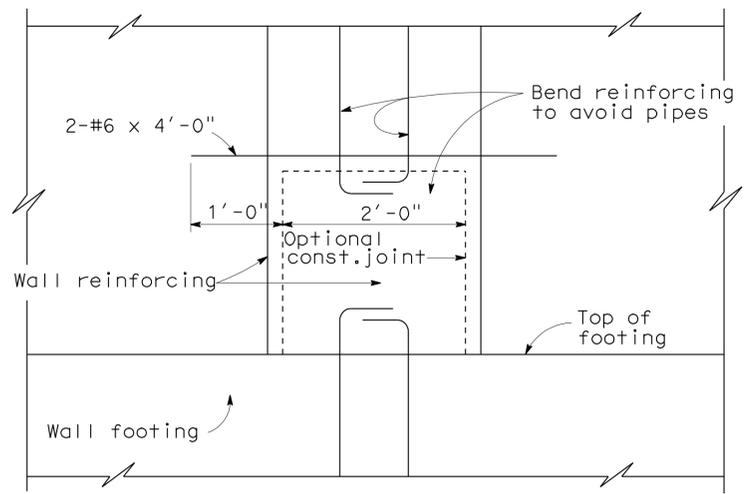


SECTION E-E
1/2"=1'-0"

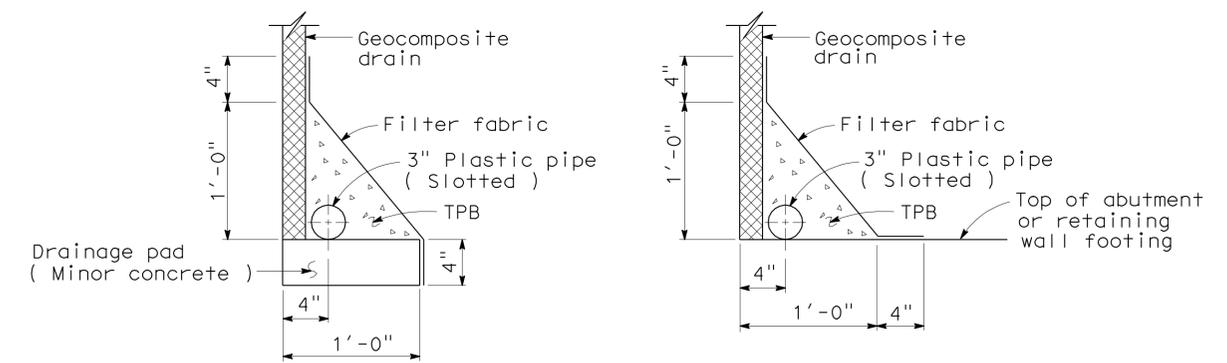
NOTE: Bends and junctions in 3" plastic pipe are 30" radius min.



DETAIL B
No Scale



SECTION H-H
1"=1'-0"



WITHOUT FOOTING WITH FOOTING DRAINAGE DETAILS
1/2"=1'-0"

SPECIAL DETAIL

| STANDARD DRAWING | | | |
|------------------|--------------|----------------|--------------|
| RELEASE DATE | DESIGN BY | CHECKED | RELEASED BY |
| Revised | M. TRAFFALIS | E. THORKILDSEN | |
| FILE NO. | DETAILS BY | CHECKED | |
| xs3-110e | R. YEE | E. THORKILDSEN | |
| | SUBMITTED BY | DRAWING DATE | OFFICE CHIEF |
| | M. HA | 4/98 | |

- 1 Revised Detail
- 2 Deleted Detail

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 53-3037
MILE POST 1.47

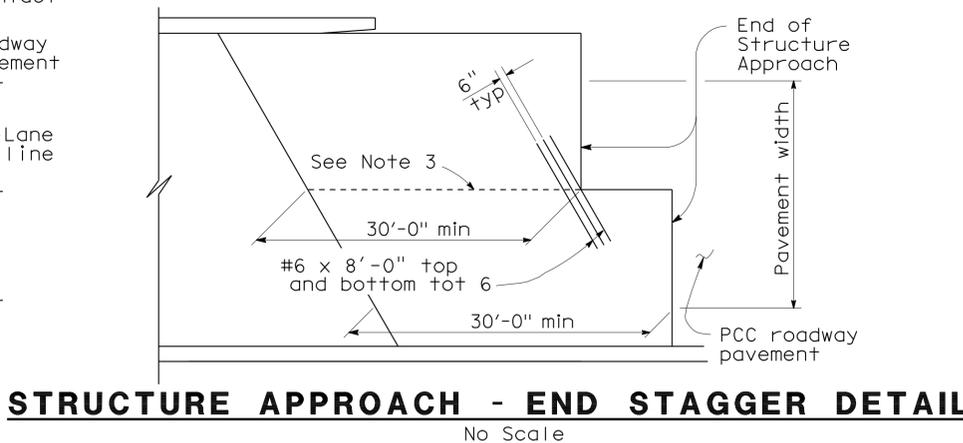
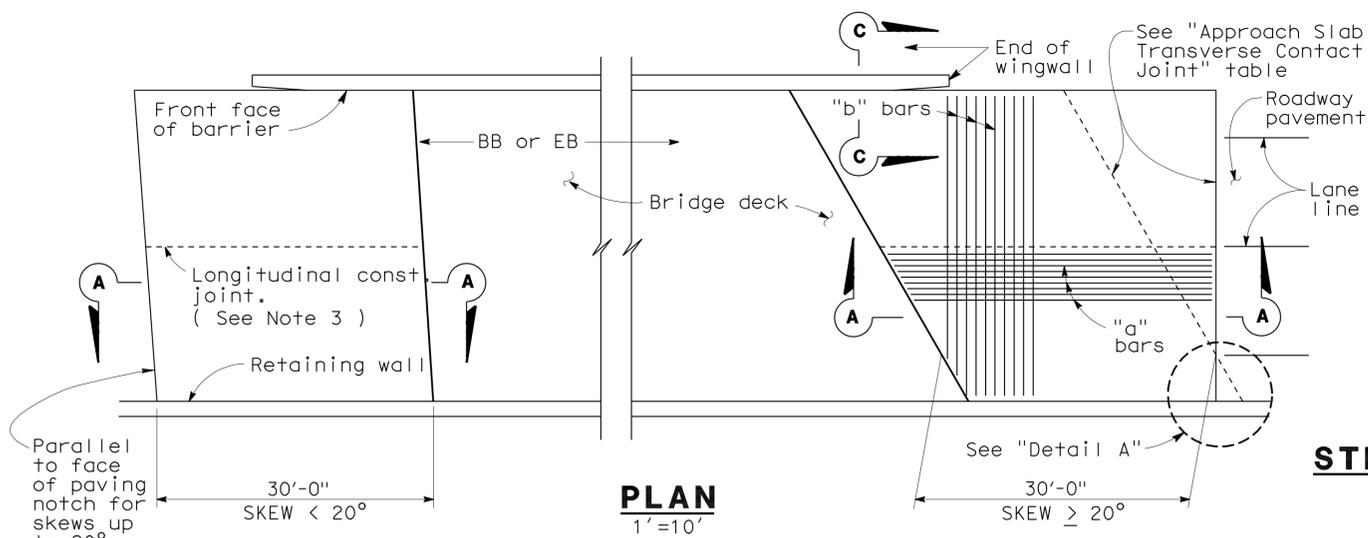
N. FORK COYOTE CRK BR (REPLACEMENT)

STRUCTURE APPROACH DRAINAGE DETAILS

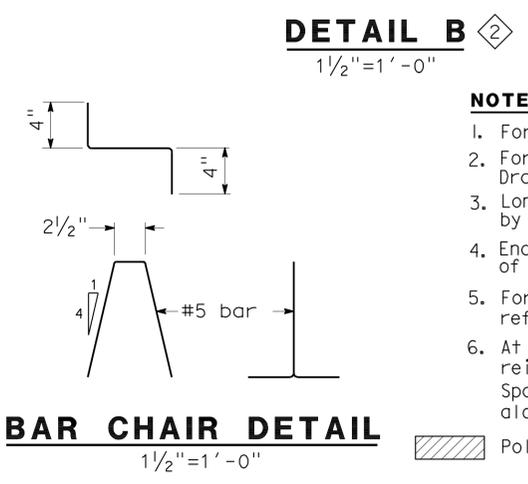
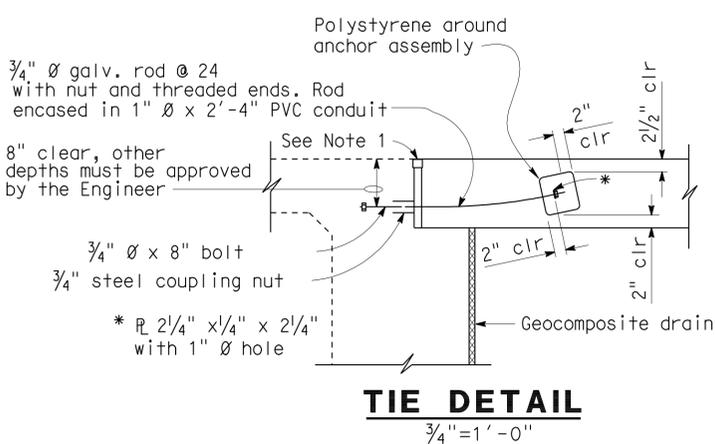
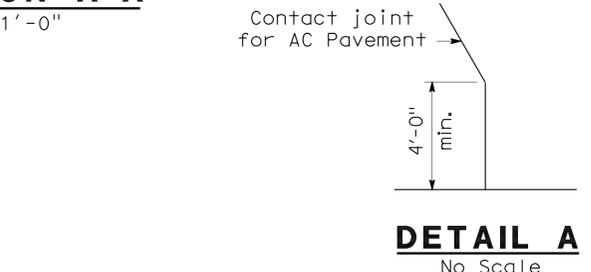
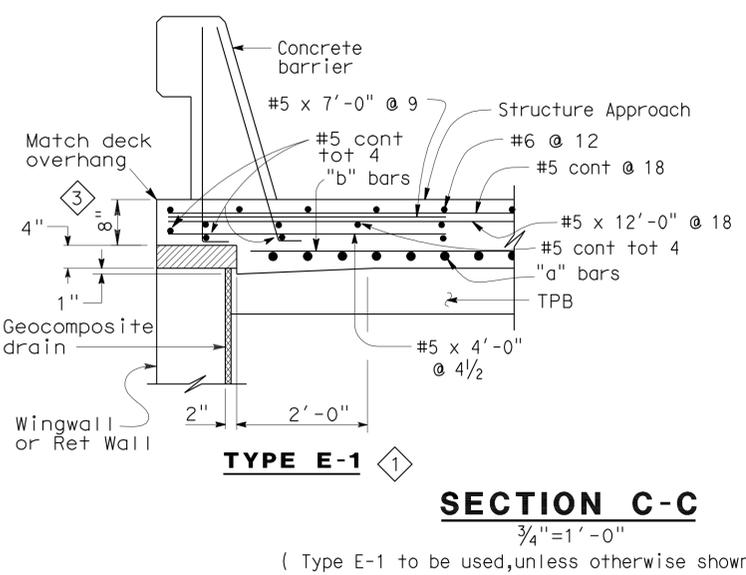
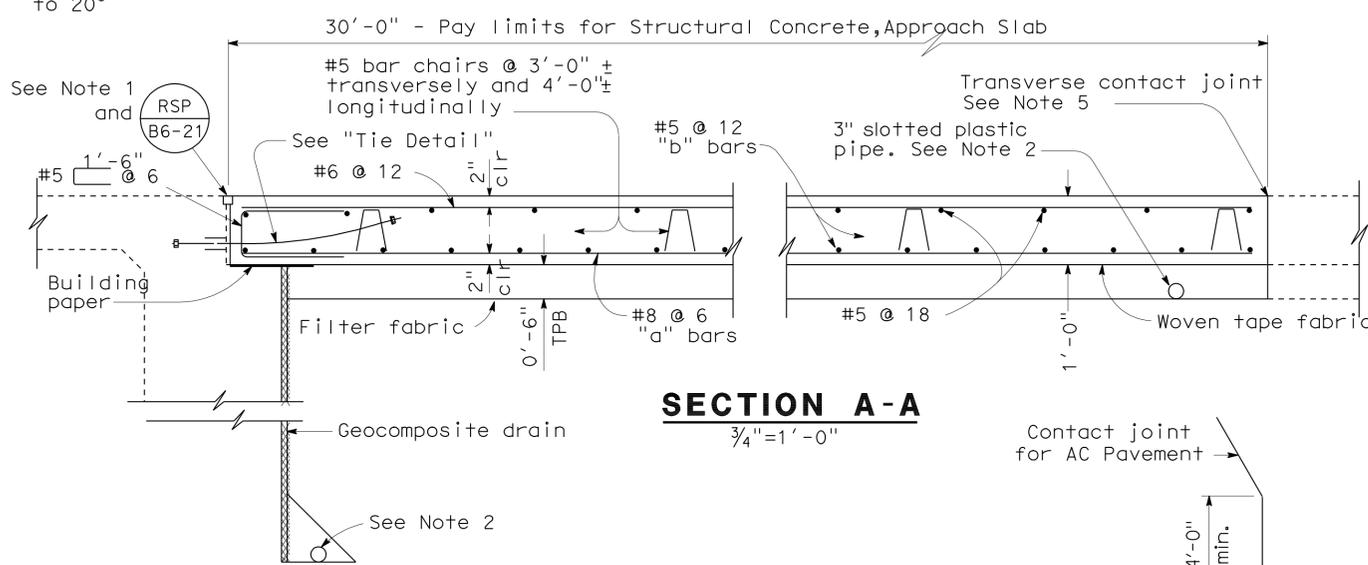
| | | | | | |
|-------|--------|-------|--------------------------|-----------|--------------|
| DIST. | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 409 | 602 |

3-2-11
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 6-27-11
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REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



| APPROACH SLAB TRANSVERSE CONTACT JOINT | | |
|----------------------------------------|----------------------------------------|----------------------------------|
| APPROACH SKEW | WITH AC ROADWAY PAVEMENT | WITH PCC ROADWAY PAVEMENT |
| < 20° | Parallel to face of paving notch | Parallel to face of paving notch |
| 20° - 45° | Parallel to face of P N use (Detail A) | Stagger lines 24' to 36' apart |
| > 45° | Parallel to face of P N use (Detail A) | Stagger at each lane line |



- NOTES:**
- For details not noted or shown, see Structure Plans.
 - For drainage details, see "Structure Approach Drainage Details" sheet.
 - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
 - End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach, as applicable.
 - For transverse contact joint with new PCC paving, refer to Standard Plan P10.
 - At the contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along roadway.
- Polystyrene to be removed.

SPECIAL DETAIL

STANDARD DRAWING

FILE NO. **xs3-180e**

APPROVED BY: M. Ha
RESPONSIBLE TECHNICAL SPECIALIST

APPROVAL DATE: 8-12-08

RELEASED BY: O. Alcantara
RESPONSIBLE OFFICE CHIEF

RELEASE DATE: 8-12-08

1 Revised Detail 3 Added Dimension
 2 Deleted Detail

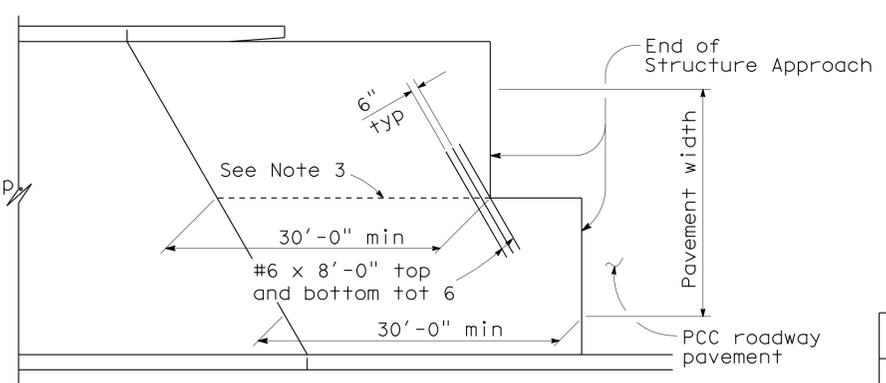
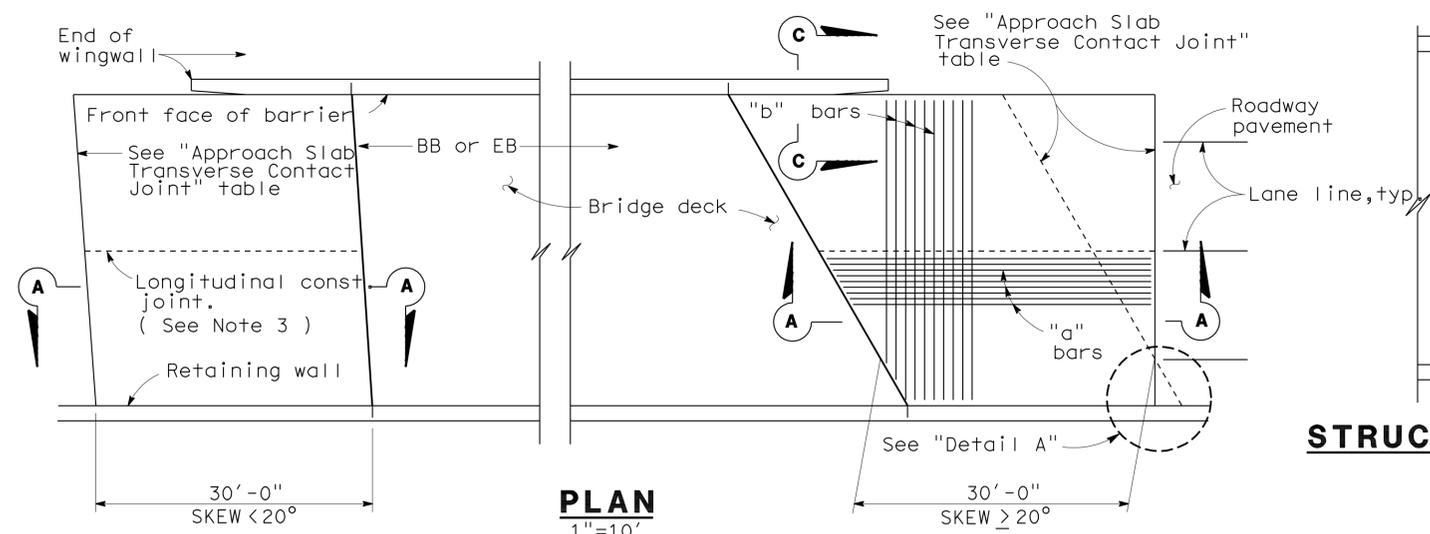
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 53-3037
 POST MILE 1.47
N. FORK COYOTE CRK BR (REPLACEMENT)
STRUCTURE APPROACH TYPE N(30D)

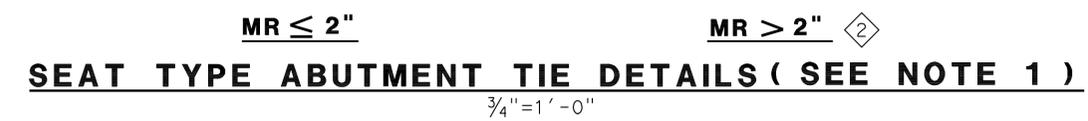
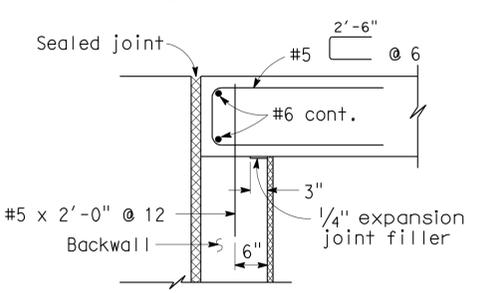
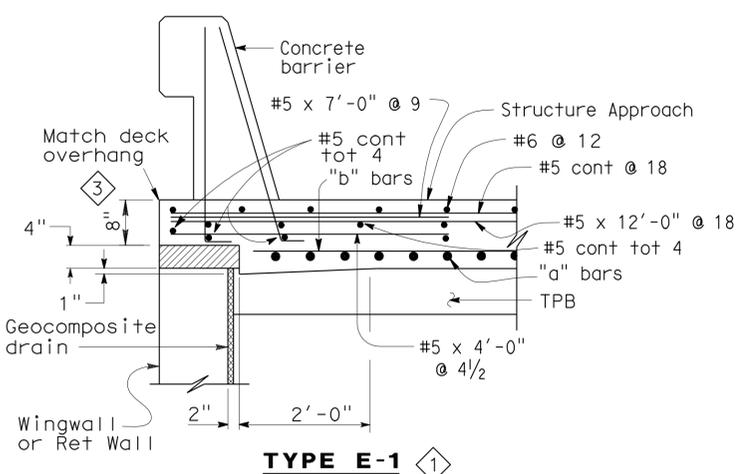
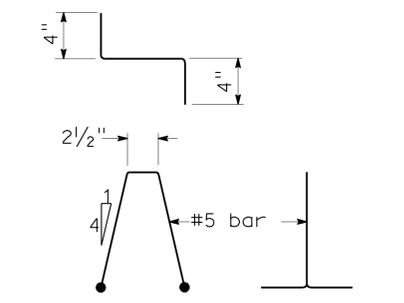
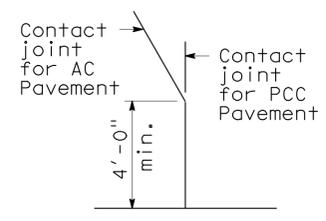
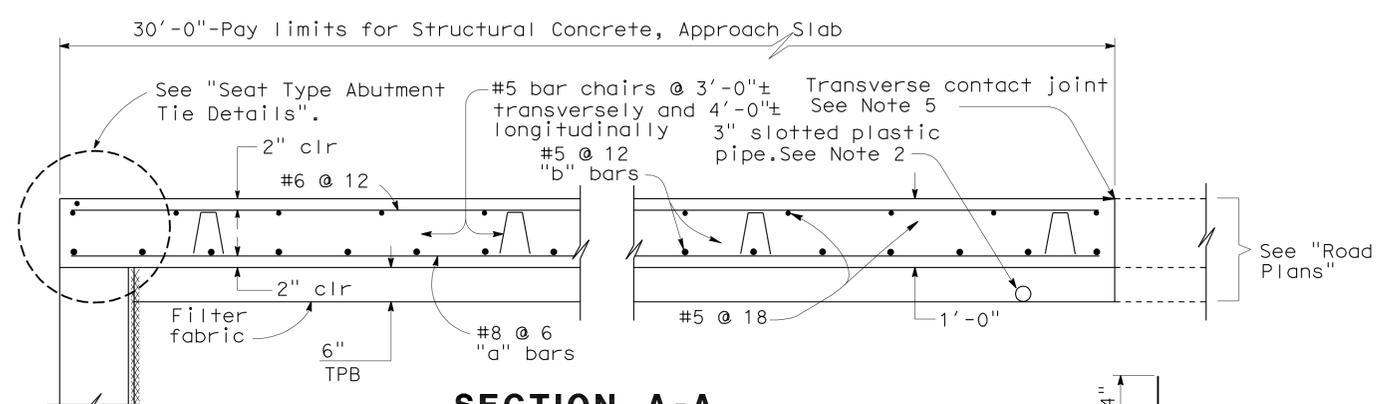
| DIST. | COUNTY | ROUTE | MILE POST TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|-------|--------|-------|-------------------------|-----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 410 | 602 |

3-2-11
REGISTERED ENGINEER - CIVIL
Phu V. Nguyen
No. 60358
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE
6-27-11
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| APPROACH SLAB TRANSVERSE CONTACT JOINT | | |
|----------------------------------------|----------------------------------------|----------------------------------|
| APPROACH SKEW | WITH AC ROADWAY PAVEMENT | WITH PCC ROADWAY PAVEMENT |
| < 20° | Parallel to face of paving notch | Parallel to face of paving notch |
| 20° - 45° | Parallel to face of P N use (Detail A) | Stagger lines 24' to 36' apart. |
| > 45° | Parallel to face of P N use (Detail A) | Stagger at each lane line. |



- NOTES:**
- For details not shown, see Structure Plans. For MR ≤ 2, adjust bar reinforcement to clear a sawcut for sealed joint, when required.
 - For drainage details, see "Structure Approach Drainage Details" sheet.
 - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
 - End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable.
 - For transverse contact joint with new PCC paving, refer to Standard Plan P10.
 - At the contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along roadway.
- Remove all polystyrene.

SPECIAL DETAIL

| STANDARD DRAWING | | | |
|------------------|--------------|----------------|--------------|
| RELEASE DATE | DESIGN BY | CHECKED | RELEASED BY |
| Revised | M. TRAFFALIS | E. THORKILDSEN | |
| FILE NO. | DETAILS BY | CHECKED | |
| xs3-120e | R. YEE | E. THORKILDSEN | |
| | SUBMITTED BY | DRAWING DATE | OFFICE CHIEF |
| | M. HA | 4/98 | |

- 1 Revised Detail
- 2 Deleted Detail
- 3 Added Dimension

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 53-3037
MILE POST 1.47

N. FORK COYOTE CRK BR (REPLACEMENT)

STRUCTURE APPROACH TYPE N(30S)

CU 07227
EA 215911

REVISION DATES (PRELIMINARY STAGE ONLY)

| | | | | | | | |
|---------|---------|--------|--|--|--|--|--|
| 11-9-09 | 2-22-10 | 5-5-10 | | | | | |
|---------|---------|--------|--|--|--|--|--|

SHEET 24 OF 31

BENCH MARK

BM Y11900 Elev. 68.99'
 L&CALTRANS TAG IN N CB 1' E/O
 BCR @ NE COR VALLEY VIEW AV & ALONDRA BL
 NAVD 88

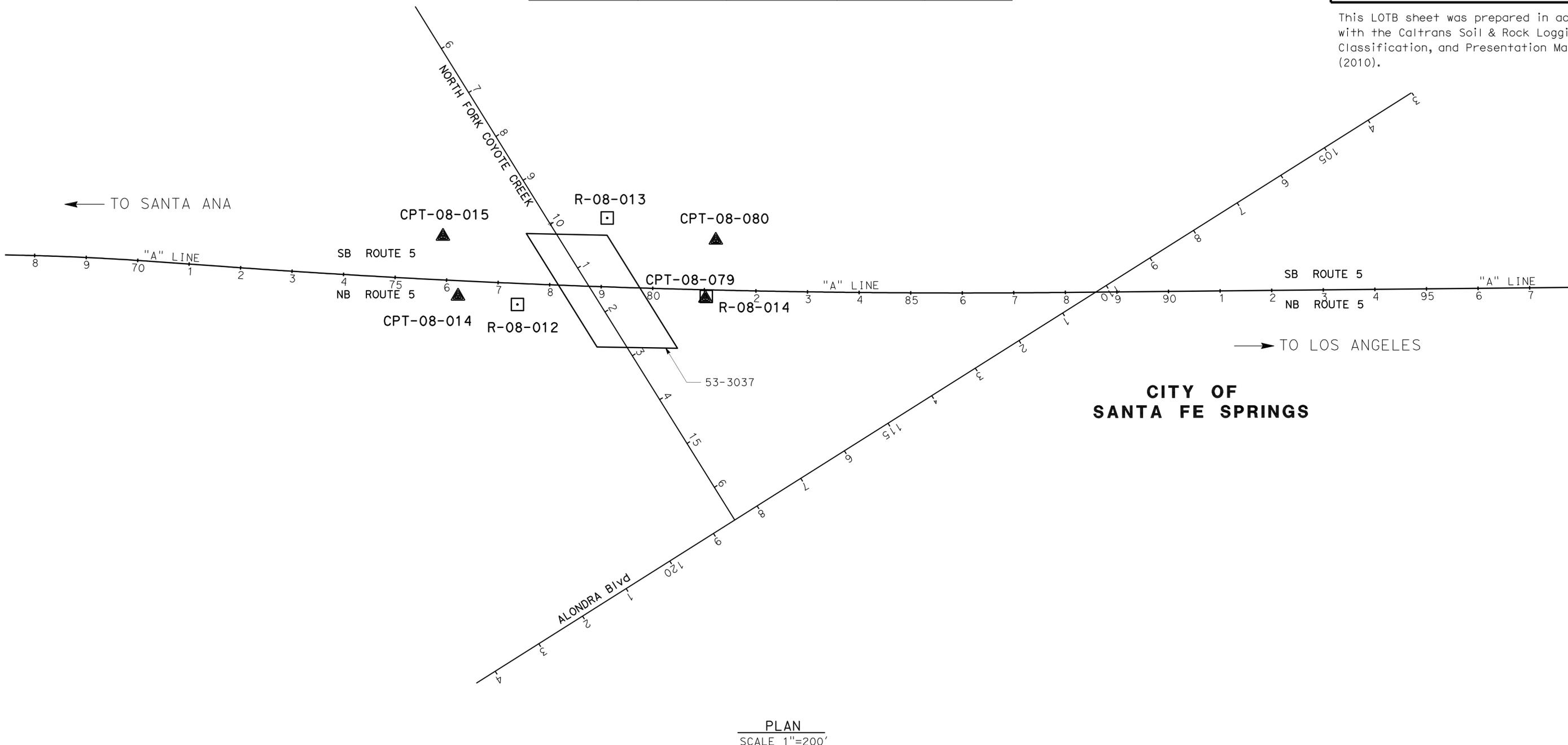
| Borehole Number | Drill Method | Drilling Equipment | Hammer Type | Avg. Hammer Efficiency, ETR (%) |
|-----------------|------------------|----------------------|-------------|---------------------------------|
| R-08-012-014 | Rotary Wash | Mayhew 1000 | Manual | 63 |
| CPT-08-014-015 | Cone Penetration | 30 Ton Gregg CPT Rig | N/A | N/A |
| CPT-08-079-080 | Cone Penetration | 30 Ton Gregg CPT Rig | N/A | N/A |



| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 411 | 602 |

05/2010
 REGISTERED GEOTECHNICAL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 No. 2738
 Exp. 6/30/11
 STATE OF CALIFORNIA
 GEOTECHNICAL
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URS CORPORATION
 2020 EAST FIRST STREET, SUITE 400
 SANTA ANA, CA 92705



PLAN
 SCALE 1"=200'

| | | | | | | | |
|------------------------------------------|------------------------------------------|-------------------------------------------------|--|------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------|
| ENGINEERING SERVICES | | GEOTECHNICAL SERVICES | | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. 53-3037 | NORTH FORK COYOTE CREEK BRIDGE |
| FUNCTIONAL SUPERVISOR NAME: F.MOTAMED | DRAWN BY: P.QUACH CHECKED BY: P.YERRA | FIELD INVESTIGATION BY: P.NARANJO/P.MCDONALD | | | | POST MILE 1.47 | |
| 06S CIVIL LOG OF TEST BORINGS SHEET | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | CU 59A0590 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES |
| | | | | | | SHEET 25 | OF 31 |

DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 18:04 USERNAME => s124496

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 412 | 602 |

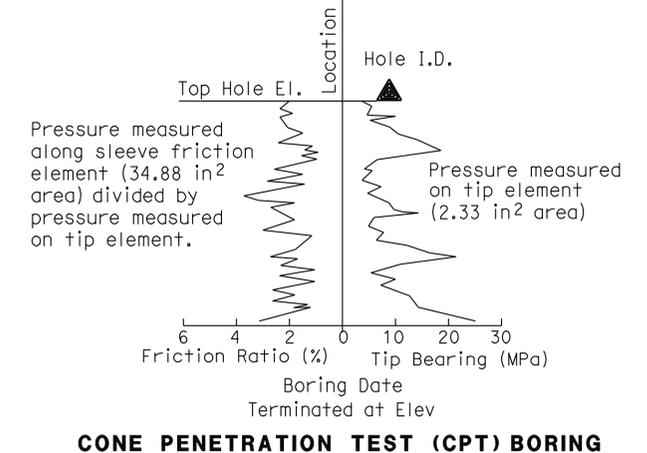
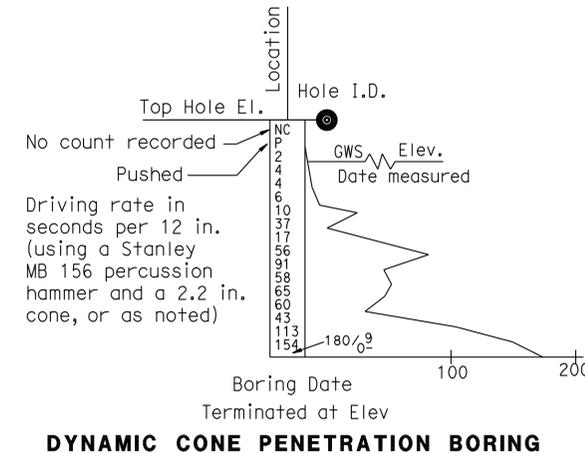
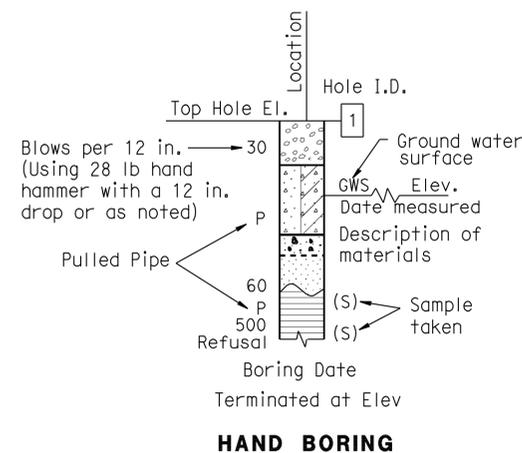
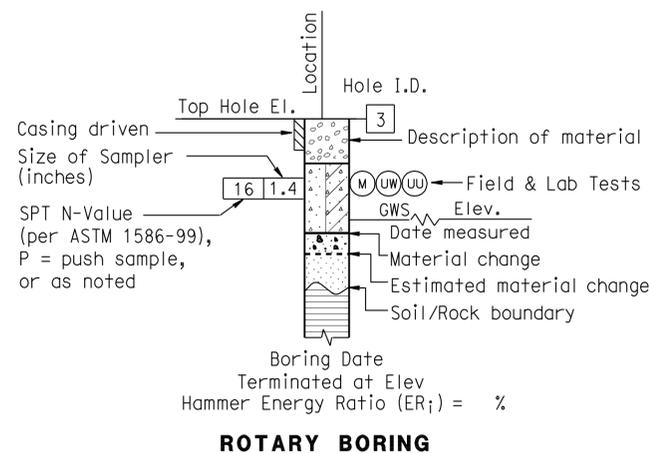
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 2020 EAST FIRST STREET, SUITE 400
 SANTA ANA, CA 92705

| CEMENTATION | |
|-------------|-------------------------------------------------------------|
| Description | Criteria |
| Weak | Crumbles or breaks with handling or little finger pressure. |
| Moderate | Crumbles or breaks with considerable finger pressure. |
| Strong | Will not crumble or break with finger pressure. |

| BOREHOLE IDENTIFICATION | | |
|-------------------------|-----------|--------------------------------------------------------------|
| Symbol | Hole Type | Description |
| | A | Auger Boring (hollow or solid stem bucket) |
| | R | Rotary drilled boring (conventional) |
| | RW | Rotary drilled with self-casing wire-line |
| | RC | Rotary core with continuously-sampled, self-casing wire-line |
| | P | Rotary percussion boring (air) |
| | R | Rotary drilled diamond core |
| | HD | Hand driven (1-inch soil tube) |
| | HA | Hand Auger |
| | D | Dynamic Cone Penetration Boring |
| | CPT | Cone Penetration Test (ASTM D 5778) |
| | O | Other (note on LOTB) |

Note: Size in inches.

| CONSISTENCY OF COHESIVE SOILS | | | | |
|-------------------------------|----------------------|--------------------------------------------|--------------------------------|-----------------------------------|
| Description | Shear Strength (tsf) | Pocket Penetrometer Measurement, PP, (tsf) | Torvane Measurement, TV, (tsf) | Vane Shear Measurement, VS, (tsf) |
| Very Soft | Less than 0.12 | Less than 0.25 | Less than 0.12 | Less than 0.12 |
| Soft | 0.12 - 0.25 | 0.25 - 0.5 | 0.12 - 0.25 | 0.12 - 0.25 |
| Medium Stiff | 0.25 - 0.5 | 0.5 - 1 | 0.25 - 0.5 | 0.25 - 0.5 |
| Stiff | 0.5 - 1 | 1 - 2 | 0.5 - 1 | 0.5 - 1 |
| Very Stiff | 1 - 2 | 2 - 4 | 1 - 2 | 1 - 2 |
| Hard | Greater than 2 | Greater than 4 | Greater than 2 | Greater than 2 |



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05/2010
DATE

REGISTERED GEOTECHNICAL ENGINEER

6-27-11
PLANS APPROVAL DATE

NO. 2738
Exp. 6/30/11

STATE OF CALIFORNIA

URS CORPORATION
2020 EAST FIRST STREET, SUITE 400
SANTA ANA, CA 92705

| GROUP SYMBOLS AND NAMES | | | |
|-------------------------|--------------------------------------------------------------------|----------------|--------------------------------------|
| Graphic/Symbol | Group Names | Graphic/Symbol | Group Names |
| | Well-graded GRAVEL | | Lean CLAY |
| | Well-graded GRAVEL with SAND | | Lean CLAY with SAND |
| | Poorly-graded GRAVEL | | Lean CLAY with GRAVEL |
| | Poorly-graded GRAVEL with SAND | | SANDY lean CLAY |
| | Well-graded GRAVEL with SILT | | SANDY lean CLAY with GRAVEL |
| | Well-graded GRAVEL with SILT and SAND | | GRAVELLY lean CLAY |
| | Well-graded GRAVEL with CLAY (or SILTY CLAY) | | GRAVELLY lean CLAY with SAND |
| | Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND) | | SILTY CLAY |
| | Poorly-graded GRAVEL with SILT | | SILTY CLAY with SAND |
| | Poorly-graded GRAVEL with SILT and SAND | | SILTY CLAY with GRAVEL |
| | Poorly-graded GRAVEL with CLAY (or SILTY CLAY) | | SANDY SILTY CLAY |
| | Poorly-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND) | | SANDY SILTY CLAY with GRAVEL |
| | SILTY GRAVEL | | GRAVELLY SILTY CLAY |
| | SILTY GRAVEL with SAND | | GRAVELLY SILTY CLAY with SAND |
| | CLAYEY GRAVEL | | SILT |
| | CLAYEY GRAVEL with SAND | | SILT with SAND |
| | SILTY, CLAYEY GRAVEL | | SILT with GRAVEL |
| | SILTY, CLAYEY GRAVEL with SAND | | SANDY SILT |
| | Well-graded SAND | | SANDY SILT with GRAVEL |
| | Well-graded SAND with GRAVEL | | GRAVELLY SILT |
| | Poorly-graded SAND | | GRAVELLY SILT with SAND |
| | Poorly-graded SAND with GRAVEL | | ORGANIC lean CLAY |
| | Well-graded SAND with SILT | | ORGANIC lean CLAY with SAND |
| | Well-graded SAND with SILT and GRAVEL | | ORGANIC lean CLAY with GRAVEL |
| | Well-graded SAND with CLAY (or SILTY CLAY) | | SANDY ORGANIC lean CLAY |
| | Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL) | | GRAVELLY ORGANIC lean CLAY |
| | Poorly-graded SAND with SILT | | GRAVELLY ORGANIC lean CLAY with SAND |
| | Poorly-graded SAND with SILT and GRAVEL | | ORGANIC SILT |
| | Poorly-graded SAND with CLAY (or SILTY CLAY) | | ORGANIC SILT with SAND |
| | Poorly-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL) | | ORGANIC SILT with GRAVEL |
| | SILTY SAND | | SANDY ORGANIC SILT |
| | SILTY SAND with GRAVEL | | SANDY ORGANIC SILT with GRAVEL |
| | CLAYEY SAND | | GRAVELLY ORGANIC SILT |
| | CLAYEY SAND with GRAVEL | | GRAVELLY ORGANIC SILT with SAND |
| | SILTY, CLAYEY SAND | | ORGANIC fat CLAY |
| | SILTY, CLAYEY SAND with GRAVEL | | ORGANIC fat CLAY with SAND |
| | PEAT | | ORGANIC fat CLAY with GRAVEL |
| | COBBLES | | GRAVELLY ORGANIC fat CLAY |
| | COBBLES and BOULDERS | | GRAVELLY ORGANIC fat CLAY with SAND |

| FIELD AND LABORATORY TESTING | |
|------------------------------|----------------------------------------------------------------------------------------|
| (C) | Consolidation (ASTM D 2435) |
| (CL) | Collapse Potential (ASTM D 5333) |
| (CP) | Compaction Curve (CTM 216) |
| (CR) | Corrosivity Testing (CTM 643, CTM 422, CTM 417) |
| (CU) | Consolidated Undrained Triaxial (ASTM D 4767) |
| (DS) | Direct Shear (ASTM D 3080) |
| (EI) | Expansion Index (ASTM D 4829) |
| (M) | Moisture Content (ASTM D 2216) |
| (OC) | Organic Content-% (ASTM D 2974) |
| (P) | Permeability (CTM 220) |
| (PA) | Particle Size Analysis (ASTM D 422) |
| (PI) | Plasticity Index (AASHTO T 90) Liquid Limit (AASHTO T 89) |
| (PL) | Point Load Index (ASTM D 5731) |
| (PM) | Pressure Meter |
| (R) | R-Value (CTM 301) |
| (SE) | Sand Equivalent (CTM 217) |
| (SG) | Specific Gravity (AASHTO T 100) |
| (SL) | Shrinkage Limit (ASTM D 427) |
| (SW) | Swell Potential (ASTM D 4546) |
| (UC) | Unconfined Compression-Soil (ASTM D 2166) Unconfined Compression-Rock (ASTM D 2938) |
| (UU) | Unconsolidated Undrained Triaxial (ASTM D 2850) |
| (UW) | Unit Weight (ASTM D 4767) |

| APPARENT DENSITY OF COHESIONLESS SOILS | |
|----------------------------------------|--------------------------------------|
| Description | SPT N ₆₀ (Blows / 12 in.) |
| Very Loose | 0 - 5 |
| Loose | 5 - 10 |
| Medium Dense | 10 - 30 |
| Dense | 30 - 50 |
| Very Dense | Greater than 50 |

| MOISTURE | |
|-------------|-------------------------------------|
| Description | Criteria |
| Dry | No discernable moisture |
| Moist | Moisture present, but no free water |
| Wet | Visible free water |

| PERCENT OR PROPORTION OF SOILS | |
|--------------------------------|--------------------------------------------------------|
| Description | Criteria |
| Trace | Particles are present but estimated to be less than 5% |
| Few | 5% - 10% |
| Little | 15% - 25% |
| Some | 30% - 45% |
| Mostly | 50% - 100% |

| PARTICLE SIZE | | |
|---------------|-----------------|--------------|
| Description | Size (in.) | |
| Boulder | Greater than 12 | |
| Cobble | 3 - 12 | |
| Gravel | Coarse | 3/4 - 3 |
| | Fine | 1/5 - 3/4 |
| Sand | Coarse | 1/16 - 1/5 |
| | Medium | 1/64 - 1/16 |
| | Fine | 1/300 - 1/64 |
| Silt and Clay | Less than 1/300 | |

DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 18:04 USERNAME => s124496

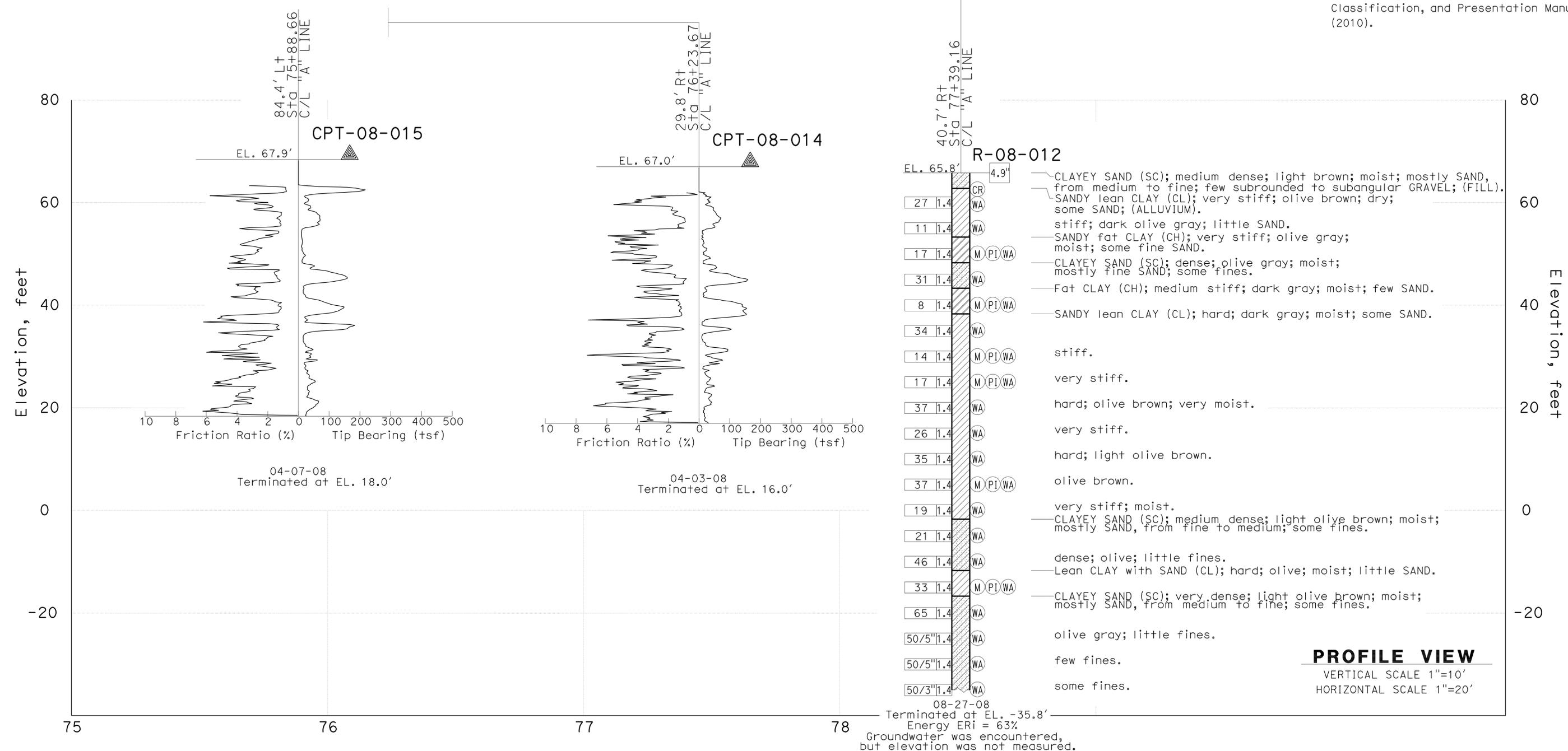
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 414 | 602 |

Farid Motamed 05/2010
 REGISTERED GEOTECHNICAL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 No. 2738
 Exp. 6/30/11
 FARID MOTAMED
 GEOTECHNICAL
 STATE OF CALIFORNIA

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS" 1 OF 7

URS CORPORATION
 2020 EAST FIRST STREET, SUITE 400
 SANTA ANA, CA 92705

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010).



| | | | | | | | | | | | |
|-------------------------------------|--|--------------------------------------------|--|----------------------------|--|-----------------------------------------|--|-------------------------------------------------|--|---------------------------------------|--|
| ENGINEERING SERVICES | | GEOTECHNICAL SERVICES | | STATE OF CALIFORNIA | | DIVISION OF ENGINEERING SERVICES | | BRIDGE NO. | | NORTH FORK COYOTE CREEK BRIDGE | |
| FUNCTIONAL SUPERVISOR | | DRAWN BY: P.QUACH | | FIELD INVESTIGATION BY: | | STRUCTURE DESIGN | | 53-3037 | | LOG OF TEST BORINGS SHEET 4 OF 7 | |
| NAME: F.MOTAMED | | CHECKED BY: P.YERRA | | P.NARANJO/P.MCDONALD | | DESIGN BRANCH 11 | | POST MILE | | 28 | |
| 065 CIVIL LOG OF TEST BORINGS SHEET | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | 0 1 2 3 | | CU 59A0590 EA 215911 | | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | 31 | |

USERNAME => s124496 DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 18:05

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 415 | 602 |

05/2010
DATE

REGISTERED GEOTECHNICAL ENGINEER

6-27-11
PLANS APPROVAL DATE

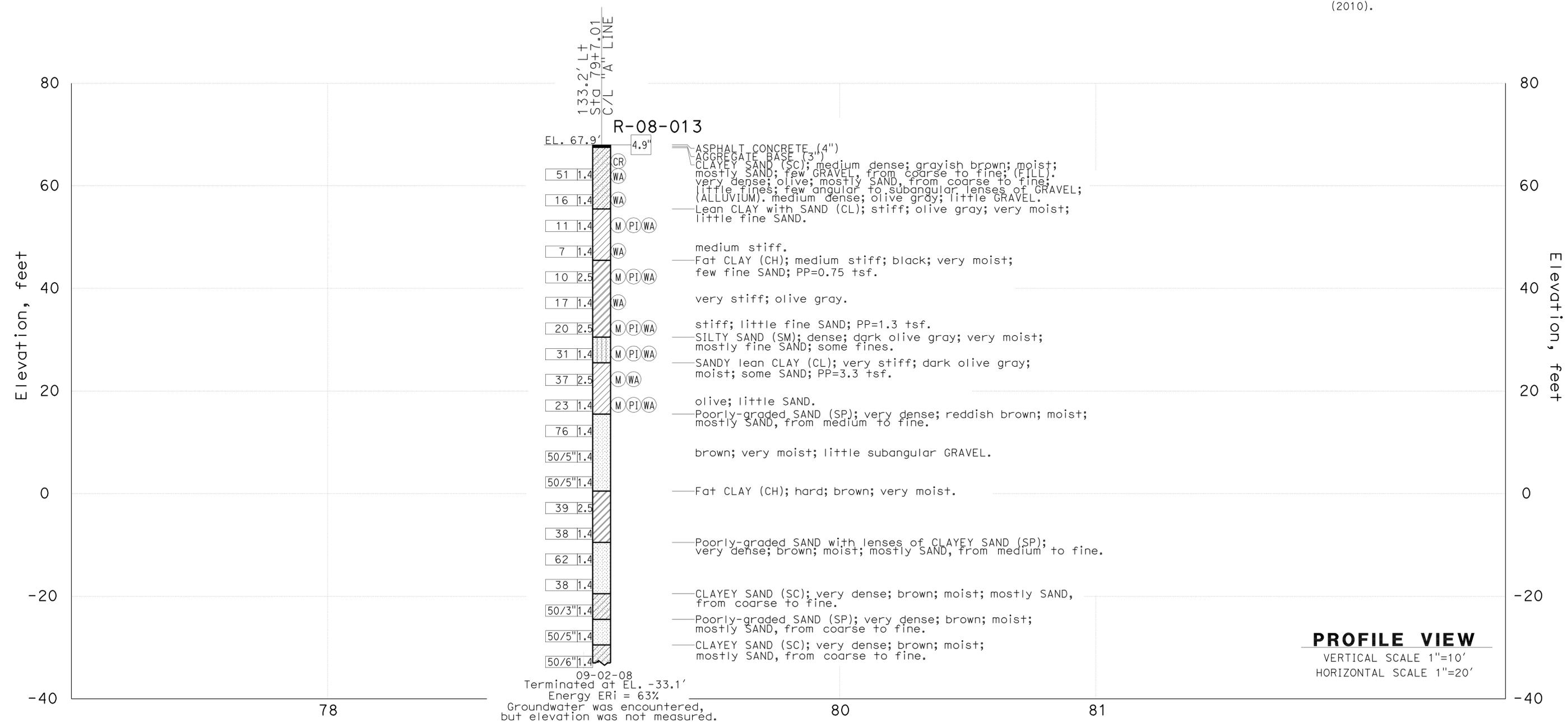
FARID MOTAMED
No. 2738
Exp. 6/30/11
STATE OF CALIFORNIA

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URS CORPORATION
2020 EAST FIRST STREET, SUITE 400
SANTA ANA, CA 92705

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FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS" 1 OF 7



PROFILE VIEW
VERTICAL SCALE 1"=10'
HORIZONTAL SCALE 1"=20'

| | | | | | | | | | |
|-------------------------------------|---------------------|--------------------------------------------|-------------------------------------|----------------------------|-------------------------|-------------------------------------------------|-----------------------|-----------------------------------------|--|
| ENGINEERING SERVICES | | GEOTECHNICAL SERVICES | | STATE OF CALIFORNIA | | DIVISION OF ENGINEERING SERVICES | | NORTH FORK COYOTE CREEK BRIDGE | |
| FUNCTIONAL SUPERVISOR | DRAWN BY: P.QUACH | FIELD INVESTIGATION BY: | DEPARTMENT OF TRANSPORTATION | | STRUCTURE DESIGN | | BRIDGE NO. 53-3037 | LOG OF TEST BORINGS SHEET 5 OF 7 | |
| NAME: F.MOTAMED | CHECKED BY: P.YERRA | P.NARANJO/P.MCDONALD | | | DESIGN BRANCH 11 | | POST MILE 1.47 | | |
| 065 CIVIL LOG OF TEST BORINGS SHEET | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | 0 1 2 3 | | CU 59A0590 EA 215911 | | REVISION DATES | |
| | | | | | | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | SHEET 29 OF 31 | |

DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 18:05 USERNAME => s124496

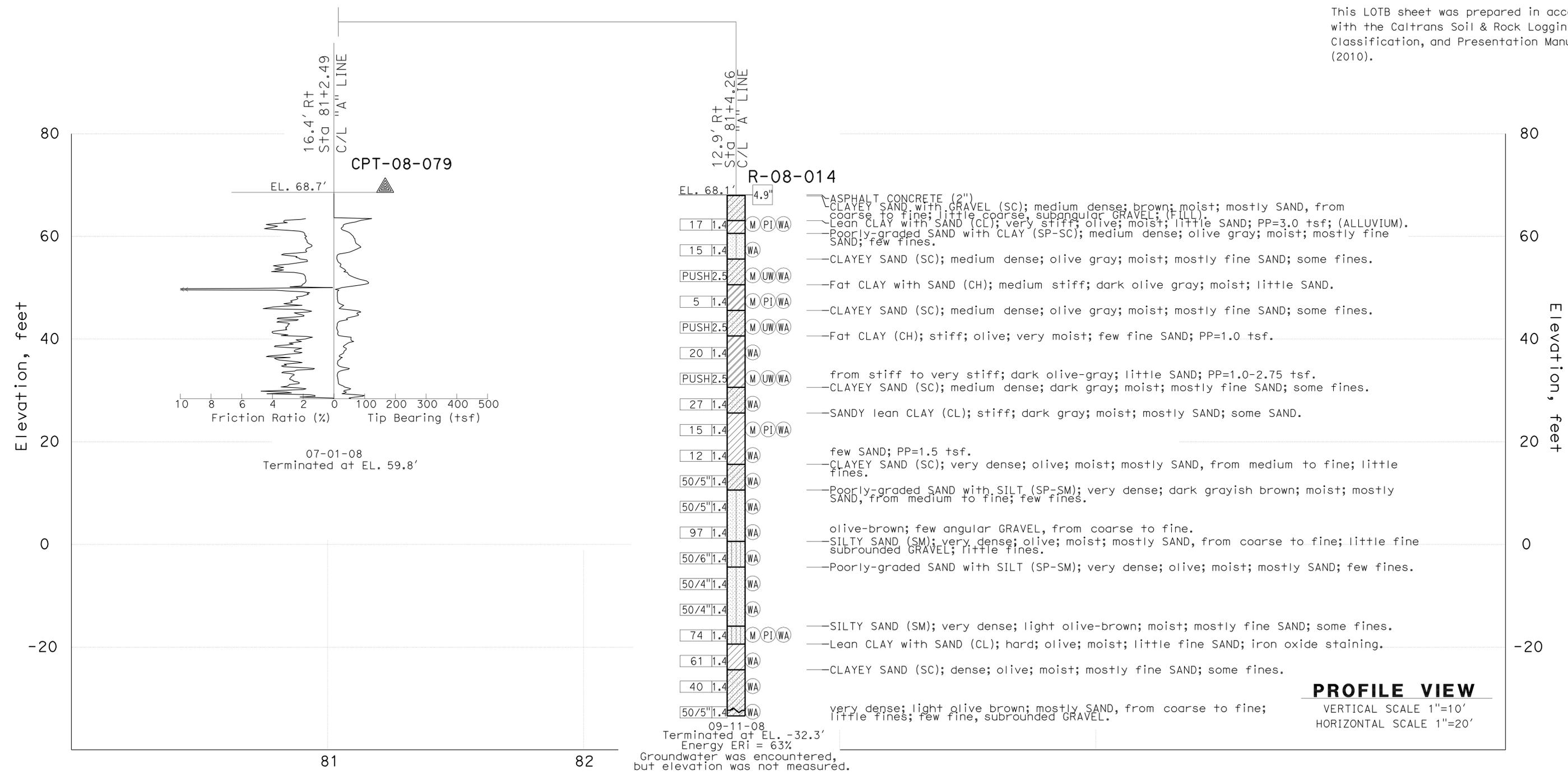
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
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Farid Motamed 05/2010
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URS CORPORATION
 2020 EAST FIRST STREET, SUITE 400
 SANTA ANA, CA 92705

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FOR PLAN VIEW, SEE "LOG OF TEST BORINGS" 1 OF 7



PROFILE VIEW
 VERTICAL SCALE 1"=10'
 HORIZONTAL SCALE 1"=20'

| | | | | | | | | | | | |
|--------------------------------------------------------------------------|--|----------------------------------------------------------------------------|--|------------------------------------------------------------|--|----------------------------------------------------------------------------------------|--|--------------------------------------------|--|----------------------------------------------------------------------------------|--|
| ENGINEERING SERVICES FUNCTIONAL SUPERVISOR NAME: F. MOTAMED | | GEOTECHNICAL SERVICES DRAWN BY: P. QUACH CHECKED BY: P. YERRA | | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | | BRIDGE NO. 53-3037 POST MILE 1.47 | | NORTH FORK COYOTE CREEK BRIDGE LOG OF TEST BORINGS SHEET 6 OF 7 | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | CU 59A0590 EA 215911 | | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | REVISION DATES | | SHEET 30 OF 31 | |

DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 18:05
 USERNAME => s124496

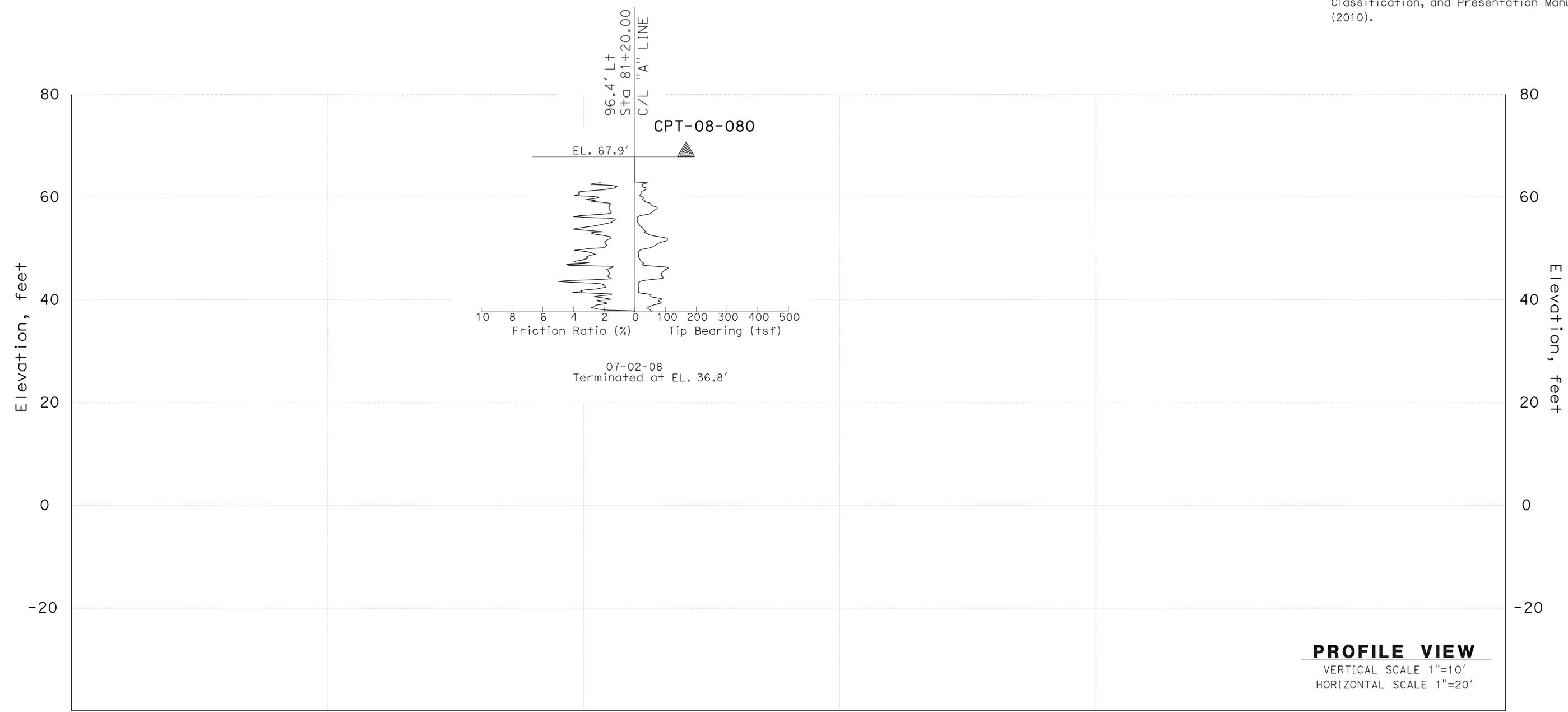
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
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| 07 | LA | 5 | 1.2/2.1 | 417 | 602 |

REGISTERED GEOTECHNICAL ENGINEER *Farid Motamed* DATE 05/2010
 PLANS APPROVAL DATE 6-27-11
 No. 2738
 Exp. 6/30/11
 FARID MOTAMED
 GEOTECHNICAL
 STATE OF CALIFORNIA

URS CORPORATION
 2020 EAST FIRST STREET, SUITE 400
 SANTA ANA, CA 92705

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FOR PLAN VIEW, SEE "LOG OF TEST BORINGS" 1 OF 7



PROFILE VIEW
 VERTICAL SCALE 1"=10'
 HORIZONTAL SCALE 1"=20'

| | | | | | | | | |
|------------------------------------------|------------------------------------------|-------------------------------------------------|-------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------|----------------|
| ENGINEERING SERVICES | | GEOTECHNICAL SERVICES | | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. 53-3037 | NORTH FORK COYOTE CREEK BRIDGE | |
| FUNCTIONAL SUPERVISOR NAME: F.MOTAMED | DRAWN BY: P.QUACH CHECKED BY: P.YERRA | FIELD INVESTIGATION BY: P.NARANJO/P.MCDONALD | POST MILE 1.47 | | | LOG OF TEST BORINGS SHEET 7 OF 7 | | |
| 065 CIVIL LOG OF TEST BORINGS SHEET | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | CU 59A0590 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET 31 OF 31 |

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 USERNAME => s124496

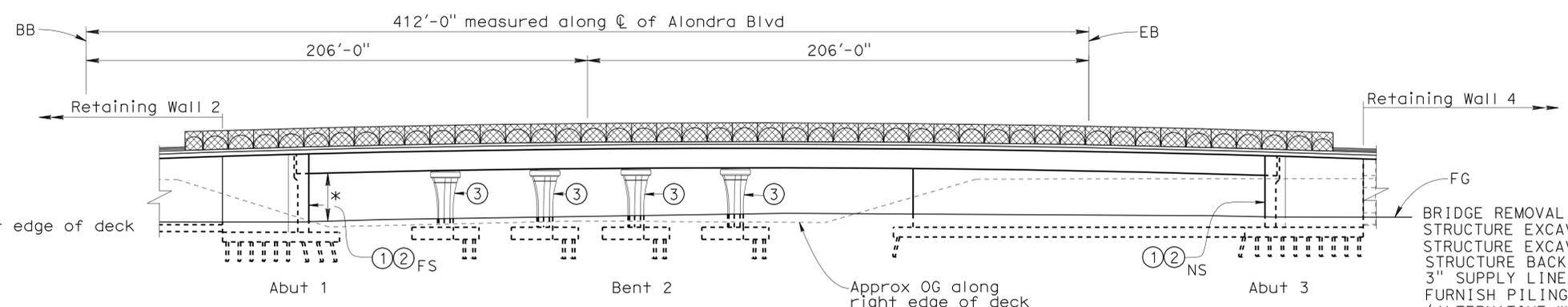
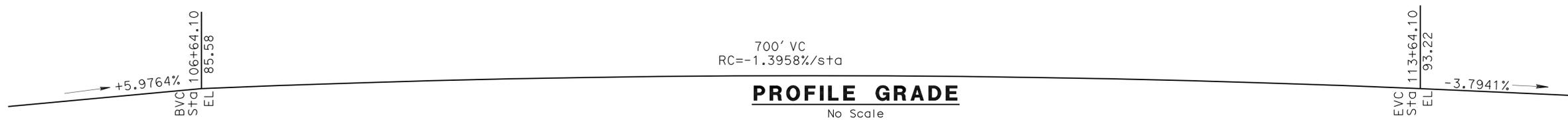
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| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
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REGISTERED CIVIL ENGINEER
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

3-2-11
 DATE

6-27-11
 PLANS APPROVAL DATE

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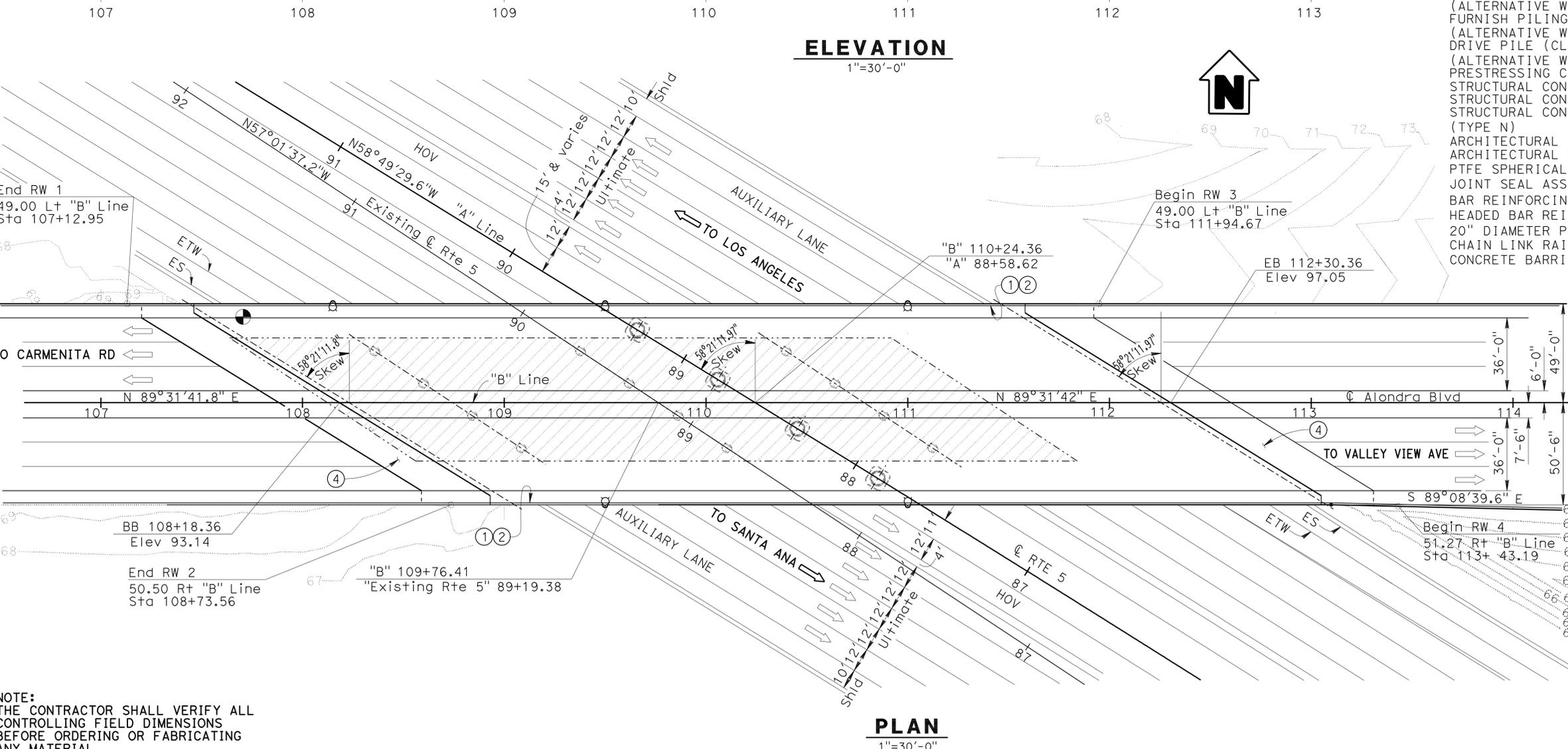


Note: Elevation shown along right edge of deck

* - Minimum Vertical Clearance FS = 16'-9"

Datum Elevation = 20.00±

| QUANTITIES | | LUMP | SUM |
|---------------------------------------------|-----------|------|-----|
| BRIDGE REMOVAL, LOCATION A | | | |
| STRUCTURE EXCAVATION (BRIDGE) | 4,305 | CY | |
| STRUCTURE EXCAVATION (BRIDGE)-CONTAMINATED | 3,195 | CY | |
| STRUCTURE BACKFILL (BRIDGE) | 5,200 | CY | |
| 3" SUPPLY LINE (BRIDGE) | 482 | LF | |
| FURNISH PILING (CLASS 140) | 21,583 | LF | |
| (ALTERNATIVE W) | | | |
| DRIVE PILE (CLASS 140) | 412 | EA | |
| (ALTERNATIVE W) | | | |
| FURNISH PILING (CLASS 200) | 6,454 | LF | |
| (ALTERNATIVE W) | | | |
| DRIVE PILE (CLASS 200) | 128 | EA | |
| (ALTERNATIVE W) | | | |
| PRESTRESSING CAST-IN-PLACE CONCRETE | LUMP | SUM | |
| STRUCTURAL CONCRETE, BRIDGE FOOTING | 1,560 | CY | |
| STRUCTURAL CONCRETE, BRIDGE | 5,880 | CY | |
| STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N) | 220 | CY | |
| ARCHITECTURAL TREATMENT | 10,700 | SQFT | |
| ARCHITECTURAL SURFACE (BARRIER) | 1,575 | SQFT | |
| PTFE SPHERICAL BEARING | 20 | EA | |
| JOINT SEAL ASSEMBLY (MR 6") | 325 | LF | |
| BAR REINFORCING STEEL (BRIDGE) | 2,050,000 | LB | |
| HEADED BAR REINFORCEMENT | 480 | EA | |
| 20" DIAMETER PILE CASING | 3,193 | LF | |
| CHAIN LINK RAILING (TYPE 3 MODIFIED) | 944 | LF | |
| CONCRETE BARRIER (TYPE 26 MODIFIED) | 944 | LF | |



End RW 1
49.00 Lt "B" Line
Sta 107+12.95

TO CARMENITA RD

End RW 2
50.50 Rt "B" Line
Sta 108+73.56

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

| LEGEND | |
|--------|-----------------------------------------------|
| ----- | Indicates existing structure |
| ————— | Indicates New Construction |
| ▨ | Indicates Bridge Removal (Bridge No. 53-0630) |
| ● | Indicates Point of Minimum Vertical Clearance |
| → | Indicates Direction of Traffic |
| ⊙ | Electrolier |

- NOTES
- Paint "Br No. 53-3038"
 - Paint "Alondra Blvd OC"
 - Paint "Bent No. 2"
 - Structure Approach Type N(30S) (Mod)
- For Typical Section & Quantities, see "GENERAL PLAN NO. 2" sheet.
 - For General Notes, Standard Plans see "INDEX TO PLANS" sheet.
 - For Retaining Walls 1,2,3, & 4 See "Retaining Wall Plans".
 - For Electrolier, see "ROAD PLANS"

| | | | | |
|------------|---------------------------|---------------------|---------------------------------|------------------------------------------------------------|
| DESIGN | BY Krishnakant Andurlekar | CHECKED Eric Watson | LOAD & RESISTANCE FACTOR DESIGN | LIVE LOADING: "HL-93 W/LOW-BOY" AND PERMIT DESIGN VEHICLE" |
| DETAILS | BY Jaime Ramirez | CHECKED Eric Watson | LAYOUT | BY Krishnakant Andurlekar |
| QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp | SPECIFICATIONS | BY Theresa Nedwick |

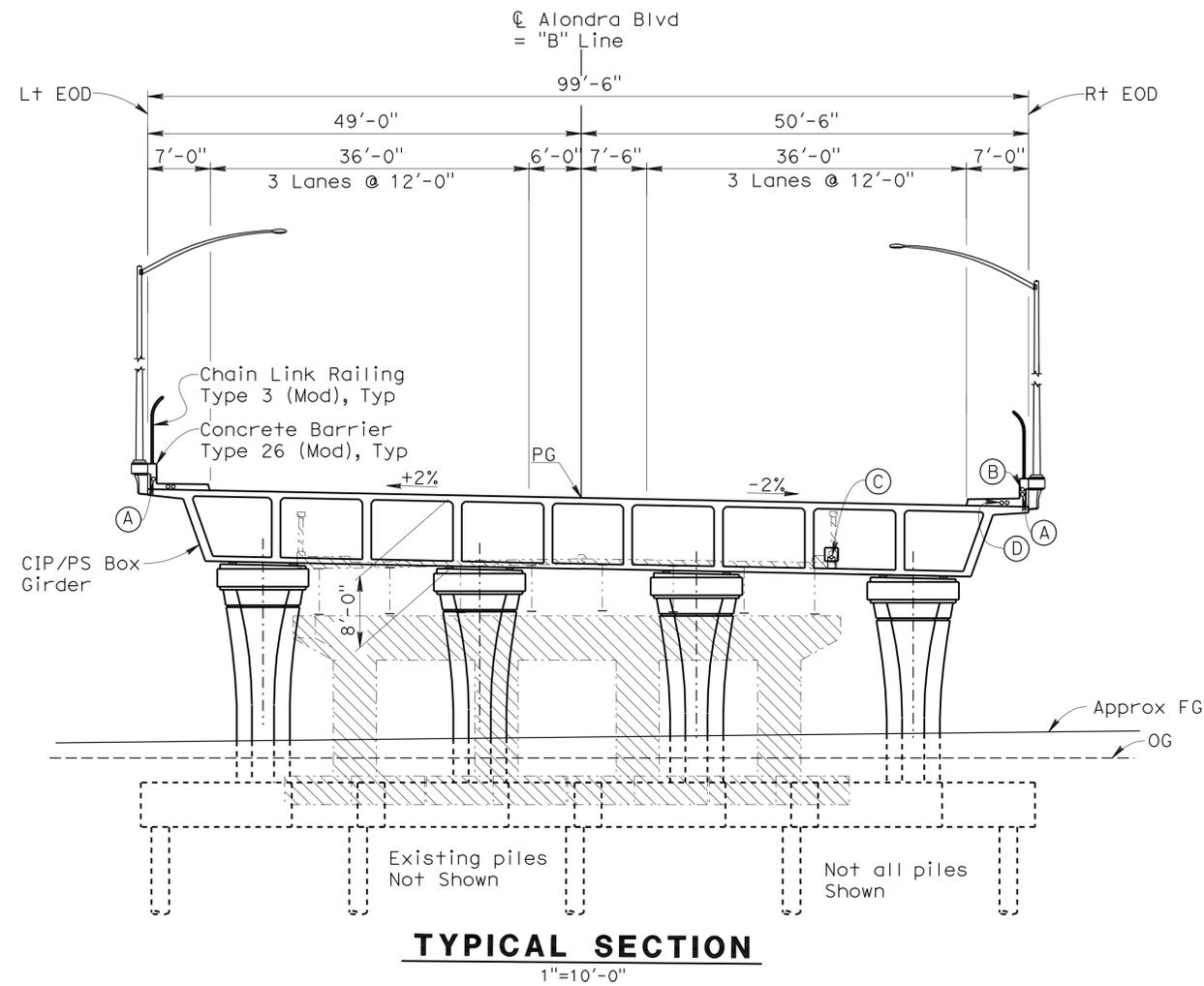
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 11

| | | |
|------------|---------|-------------------------------------------------|
| BRIDGE NO. | 53-3038 | ALONDRA BLVD OC (REPLACE) GENERAL PLAN No. 1 |
| POST MILE | 1.68 | |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 419 | 602 |

 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
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TYPICAL SECTION
1"=10'-0"

| Location | Pile Type | Nominal Resistance (Kips) | | Design Tip Elevation (ft) | Specified Tip Elevation (ft) | Nominal Driving Resistance (Kips) |
|----------|-------------------|---------------------------|---------|--------------------------------------------------|------------------------------|-----------------------------------|
| | | Compression | Tension | | | |
| Abut 1 | Class 140/Alt "W" | 280 | N/A | 10(a) 20(c) 10(d) | 10(a) | Table A |
| Bent 2 | Class 200/Alt "W" | 425 | 150 | 10(a-I) 10(b-I) 10(a-II) 20(c) 10(d) | 10(a) | 630 |
| Abut 3 | Class 140/Alt "W" | 280 | N/A | 10(a) 20(c) 10(d) | 10(a) | 430 |

- Design tip elevation for Abutments is controlled by (a) Compression, (c) Settlement, and (d) Lateral Load.
- Design Tip Elevation for Bents is controlled by:
 - (a-I) Compression (strength limit), (b-I) Tension (strength limit).
 - (a-II) Compression (Extreme Event), (b-II) Tension (Extreme Event),
 - (c) settlement, and (d) lateral load, respectively
- The specified tip elevation shall not be raised above the design tip-elevations for Tension, Settlement, and Lateral Load.
- The Nominal Driving Resistance required is equal to the nominal resistance needed to support the factored load plus driving resistance from the liquefiable soil layers, which don't contribute to the design resistance.

| Depth of Soil Removal (ft, from Cut off Elevation) | 0 | 5 | 10 | 15 | 20 | 25 | 35 |
|----------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Nominal Driving Resistance Required (Kips) | 430 | 400 | 370 | 340 | 300 | 280 | 280 |

LEGEND

 Indicates Bridge Removal (Bridge No. 53-0630)

NOTES:

- (A) 2" dia conduit for Bridge lighting, see "ROAD PLANS"
- (B) 2" dia Sprinkler control conduit, see "ROAD PLANS"
- (C) 3" GSP Supply line
- (D) Future Utility, 2-5"Ø Conduits, Typ

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

| | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------------|
| DESIGN BY Krishnakant Andurlekar CHECKED Eric Watson DETAILS BY Jaime Ramirez CHECKED Eric Watson QUANTITIES BY Krishnakant Andurlekar CHECKED Bill Kemp | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. 53-3038 POST MILE 1.68 | ALONDRA BLVD OC (REPLACE) GENERAL PLAN No. 2 |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | CU 07227 EA 215911 |
| | | | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES 6-10-09 3-15-10 5-11-10 4-27-10 8-12-10 8-24-10 3-2-11 3-25-11 |
| | | | | SHEET 2 OF 49 |

USERNAME => s124496 DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 18:05

INDEX TO PLANS

| Sheet No. | Title |
|-----------|-----------------------------------------------------|
| 1 | GENERAL PLAN No. 1 |
| 2 | GENERAL PLAN No. 2 |
| 3 | INDEX TO PLANS |
| 4 | PILE CASING DETAILS |
| 5 | DECK CONTOURS |
| 6 | FOUNDATION PLAN No. 1 |
| 7 | FOUNDATION PLAN No. 2 |
| 8 | ABUTMENT 1 LAYOUT |
| 9 | ABUTMENT 3 LAYOUT |
| 10 | ABUTMENT 1 PILE LAYOUT |
| 11 | ABUTMENT 3 PILE LAYOUT |
| 12 | ABUTMENT DETAILS No. 1 |
| 13 | ABUTMENT DETAILS No. 2 |
| 14 | ABUTMENT DETAILS No. 3 |
| 15 | ABUTMENT DETAILS No. 4 |
| 16 | ABUTMENT DETAILS No. 5 |
| 17 | BENT LAYOUT |
| 18 | BENT DETAILS |
| 19 | BENT FOOTING DETAILS |
| 20 | COLUMN DETAILS No. 1 |
| 21 | COLUMN DETAILS No. 2 |
| 22 | TYPICAL SECTION |
| 23 | GIRDER LAYOUT No. 1 |
| 24 | GIRDER LAYOUT No. 2 |
| 25 | ADDITIONAL GIRDER REINFORCEMENT |
| 26 | PTFE/ SPHERICAL EXPANSION BEARING DETAILS No. 1 |
| 27 | PTFE/ SPHERICAL EXPANSION BEARING DETAILS No. 2 |
| 28 | JOINT SEAL ASSEMBLY MOVEMENT RATING GREATER THAN 4" |
| 29 | STRUCTURE APPROACH TYPE N(30S) MOD |
| 30 | STRUCTURE APPROACH DRAINAGE DETAILS |
| 31 | CHAIN LINK RAILING (TYPE 3 MODIFIED) DETAILS |
| 32 | LUMINAIRE CORBEL DETAILS No. 1 |
| 33 | LUMINAIRE CORBEL DETAILS No. 2 |
| 34 | ARCHITECTURAL ELEVATIONS AT ABUTMENTS |
| 35 | ARCHITECTURAL MOTIF AT ABUTMENTS |
| 36 | ARCHITECTURAL MOTIF DETAILS AT ABUTMENTS |
| 37 | PARTIAL ELEVATIONS AT RETAINING WALLS 1 & 2 |
| 38 | PARTIAL ELEVATIONS AT RETAINING WALLS 3 & 4 |
| 39 | ARCHITECTURAL MOTIF AT RETAINING WALLS |
| 40 | ARCHITECTURAL MOTIF DETAILS AT RETAINING WALLS |
| 41 | SECTIONS AT ABUTMENTS & RETAINING WALLS |
| 42 | BARRIER MOTIF DETAILS |
| 43 | LOG OF TEST BORINGS SHEET 1 OF 7 |
| 44 | LOG OF TEST BORINGS SHEET 2 OF 7 |
| 45 | LOG OF TEST BORINGS SHEET 3 OF 7 |
| 46 | LOG OF TEST BORINGS SHEET 4 OF 7 |
| 47 | LOG OF TEST BORINGS SHEET 5 OF 7 |
| 48 | LOG OF TEST BORINGS SHEET 6 OF 7 |
| 49 | LOG OF TEST BORINGS SHEET 7 OF 7 |

STANDARD PLANS Dated May 2006

| | |
|--------|-----------------------------------------------------------------------------|
| A10A | ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2) |
| A10B | ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2) |
| A10C | SYMBOLS (SHEET 1 OF 2) |
| A10D | SYMBOLS (SHEET 2 OF 2) |
| A62B | LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE AND WALL * |
| A62C | LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE |
| B0-1 | BRIDGE DETAILS |
| B0-3 | BRIDGE DETAILS |
| B0-5 | BRIDGE DETAILS |
| B0-13 | BRIDGE DETAILS |
| B2-5 | PILE DETAILS CLASS 90 AND CLASS 140 |
| B2-8 | PILE DETAILS CLASS 200 |
| B3-1 | RETAINING WALL TYPE 1, H=4' THROUGH 30' |
| B3-2 | RETAINING WALL TYPE 1, H=32' THROUGH 36' |
| B7-1 | BOX GIRDER DETAILS |
| B7-10 | UTILITY OPENING BOX GIRDER |
| B8-5 | CAST-IN-PLACE PRESTRESSED GIRDER DETAILS |
| B11-54 | CONCRETE BARRIER TYPE 26 |
| B14-3 | COMMUNICATION AND SPRINKLER CONTROL CONDUITS (CONDUIT LESS THAN 4") |
| B14-4 | WATER SUPPLY LINE (BRIDGE) (PIPE SIZES LESS THAN 4") |
| B14-5 | WATER SUPPLY LINE (DETAILS)(PIPE SIZES LESS THAN 4") |



* Note: For Surcharge Limits, See "ROAD PLANS"

GENERAL NOTES

LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:

"AASHTO LRFD Bridge Design Specification, 4th Edition and the Caltrans Amendments, preface dated December 2008

SEISMIC DESIGN:

Caltrans Seismic Design Criteria (SDC), Version 1.4 dated June 2006

DEAD LOAD:

Includes 35 psf for future wearing surface.

LIVE LOADING:

HL93 and Permit Design Load

SEISMIC LOADING:

Site Specific Acceleration Response Spectra Curve

REINFORCED CONCRETE:

fy = 60 ksi
f'c = 4000 psi (Columns, Footings)
n = 8

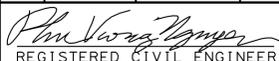
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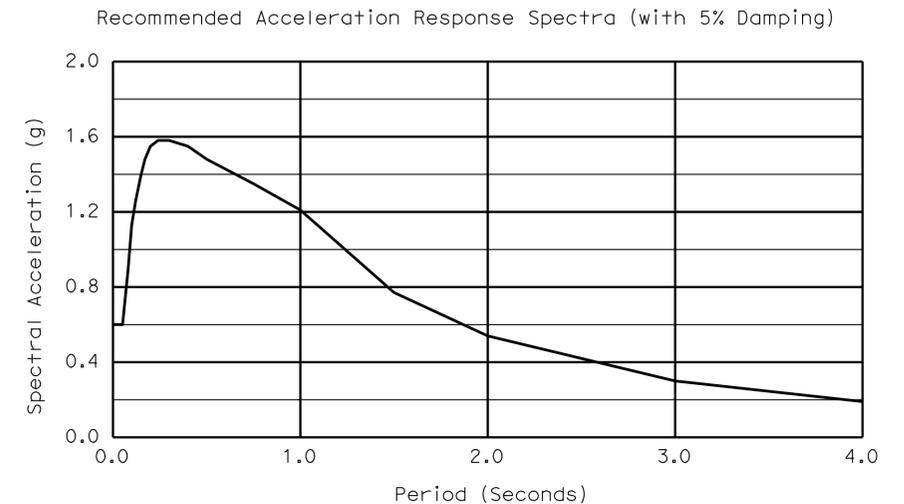
See "Prestressing Notes" on "Girder Layout No. 2" sheet

STRUCTURAL STEEL:

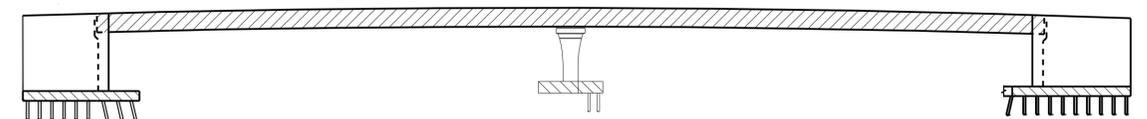
Steel Pipe Piles: ASTM - A252 M, Grade 3
fy = 45 ksi
fu = 66 Ksi

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|------|--------|-------|--------------------------|----------|--------------|
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SITE SPECIFIC ARS CURVE



-  Structural Concrete, Bridge (4000 psi @ 28 days)
-  Structural Concrete, Bridge (5000 psi at 28 days)
-  Structural Concrete, Bridge Footing (4000 psi @ 28 days)

CONCRETE STRENGTH AND TYPE LIMITS

No Scale

| | | |
|------------|---------------------------|---------------------|
| DESIGN | BY Krishnakant Andurlekar | CHECKED Eric Watson |
| DETAILS | BY Jaime Ramirez | CHECKED Eric Watson |
| QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp |

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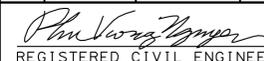
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH **11**

BRIDGE NO.
53-3038
POST MILE
1.68

ALONDRA BLVD OC (REPLACE)

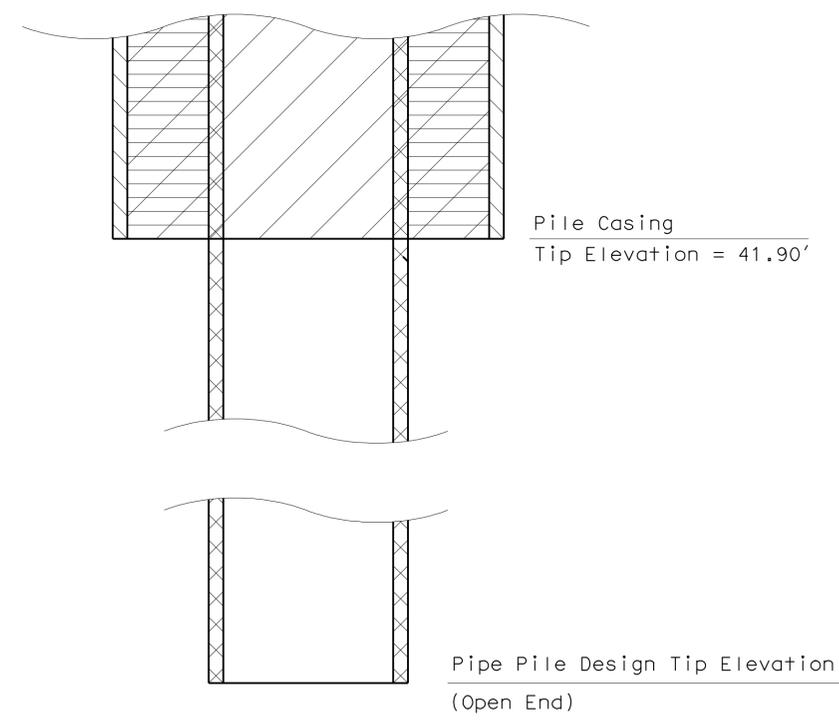
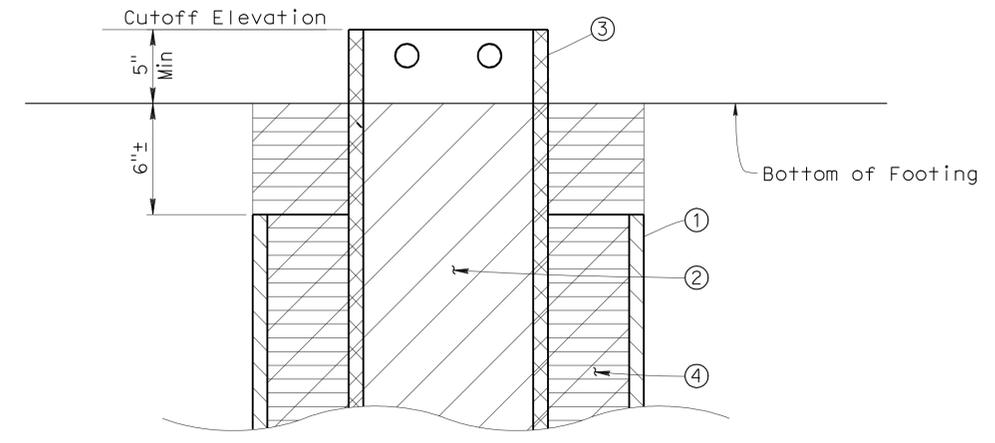
INDEX TO PLANS

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
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| 07 | LA | 5 | 1.2/2.1 | 421 | 602 |

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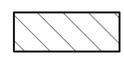
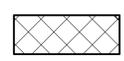
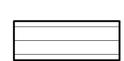
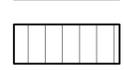
PIPE CASING INSTALLATION PROCEDURE:

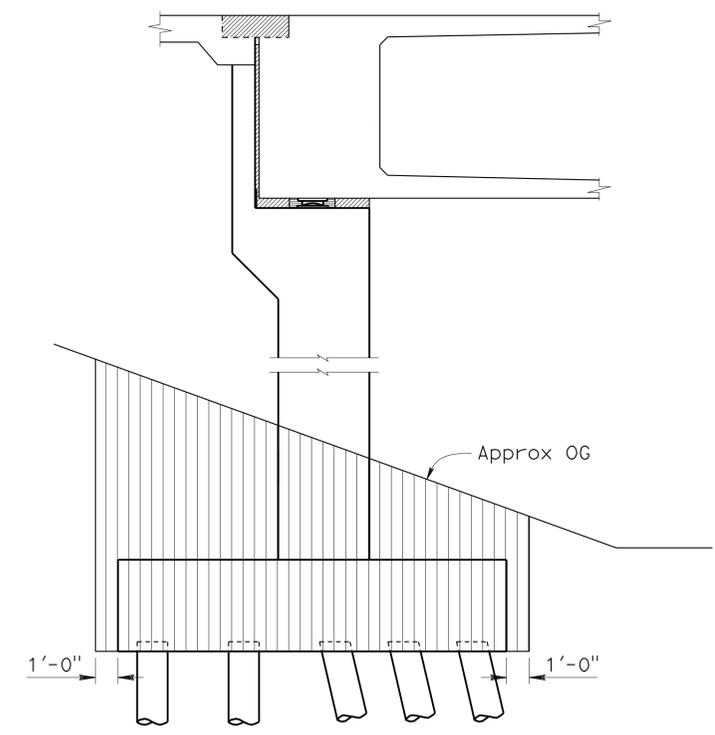
- ① Install Pile Casing
- ② Remove Contaminated soil and debris from interior space of Pile Casing
- ③ Drive class 140 Pipe Pile (ALT "W")
- ④ Fill space between Pipe Pile & Pile Casing with grout



Note: Detail shown for Abutment 1
TYPICAL PILE CASING
 NO SCALE

LEGEND

-  Steel Pile Casing
-  Class 140 Pipe Pile
-  Contaminated Soil and Debris
-  Grout
-  Contaminated Soil Structure Excavation



NOTE: Abutment 1 shown
LIMITS OF PAYMENT FOR CONTAMINATED SOIL STRUCTURE EXCAVATION
 NO SCALE

| | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------|------------|---------------------------|----------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------|------------------------------------------------------------------------|---------------|
| ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SHOWN. STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN | BY Krishnakant Andurlekar | CHECKED Mark Okimura | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | ALONDRA BLVD OC (REPLACE) PILE CASING DETAILS | | |
| | DETAILS | BY Jaime Ramirez | CHECKED Mark Okimura | | | POST MILE | 53-3038 | | |
| | QUANTITIES | BY Krishnakant Andurlekar | CHECKED Mark Okimura | | | POST MILE | 1.68 | | |
| | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | 0 1 2 3 | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES 3-2-11 3-21-11 3-24-11 3-28-11 3-29-11 4-5-11 4-6-11 | SHEET 4 OF 49 |

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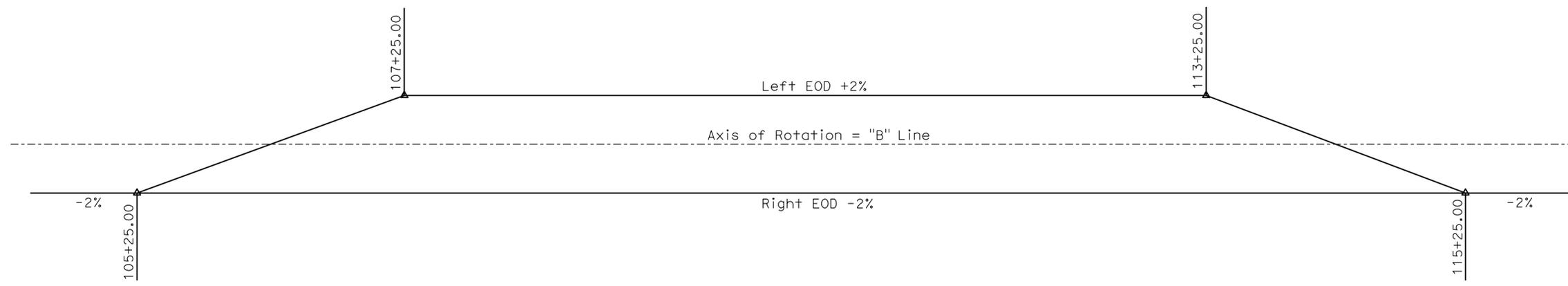
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| 07 | LA | 5 | 1.2/2.1 | 422 | 602 |

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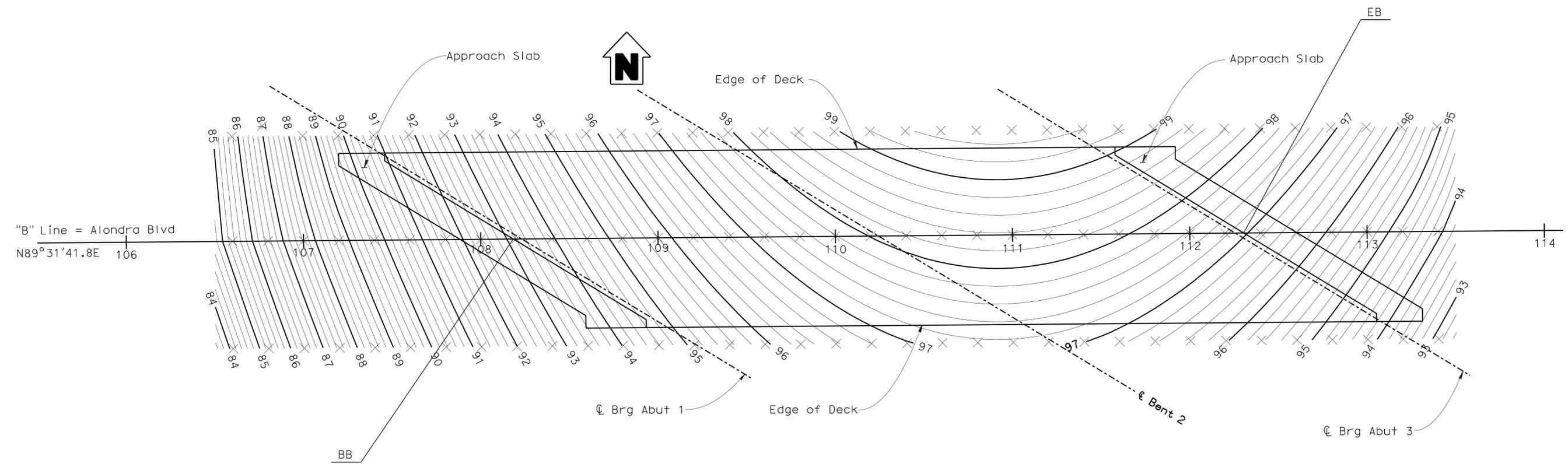
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SUPERELEVATION DIAGRAM
No Scale



PLAN
1"=30'-0"

Notes:
Contours are at 0.2' intervals
x - Indicates 20' intervals along station line
contours do not include camber

| | | |
|------------|---------------------------|--------------------------------|
| DESIGN | BY Krishnakant Andurlekar | CHECKED Eric Watson |
| DETAILS | BY Jaime Ramirez | CHECKED Eric Watson |
| QUANTITIES | BY Bill Kemp | CHECKED Krishnakant Andurlekar |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH **11**

| | |
|------------|---------|
| BRIDGE NO. | 53-3038 |
| POST MILE | 1.68 |

**ALONDRA BLVD OC (REPLACE)
DECK CONTOURS**

| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
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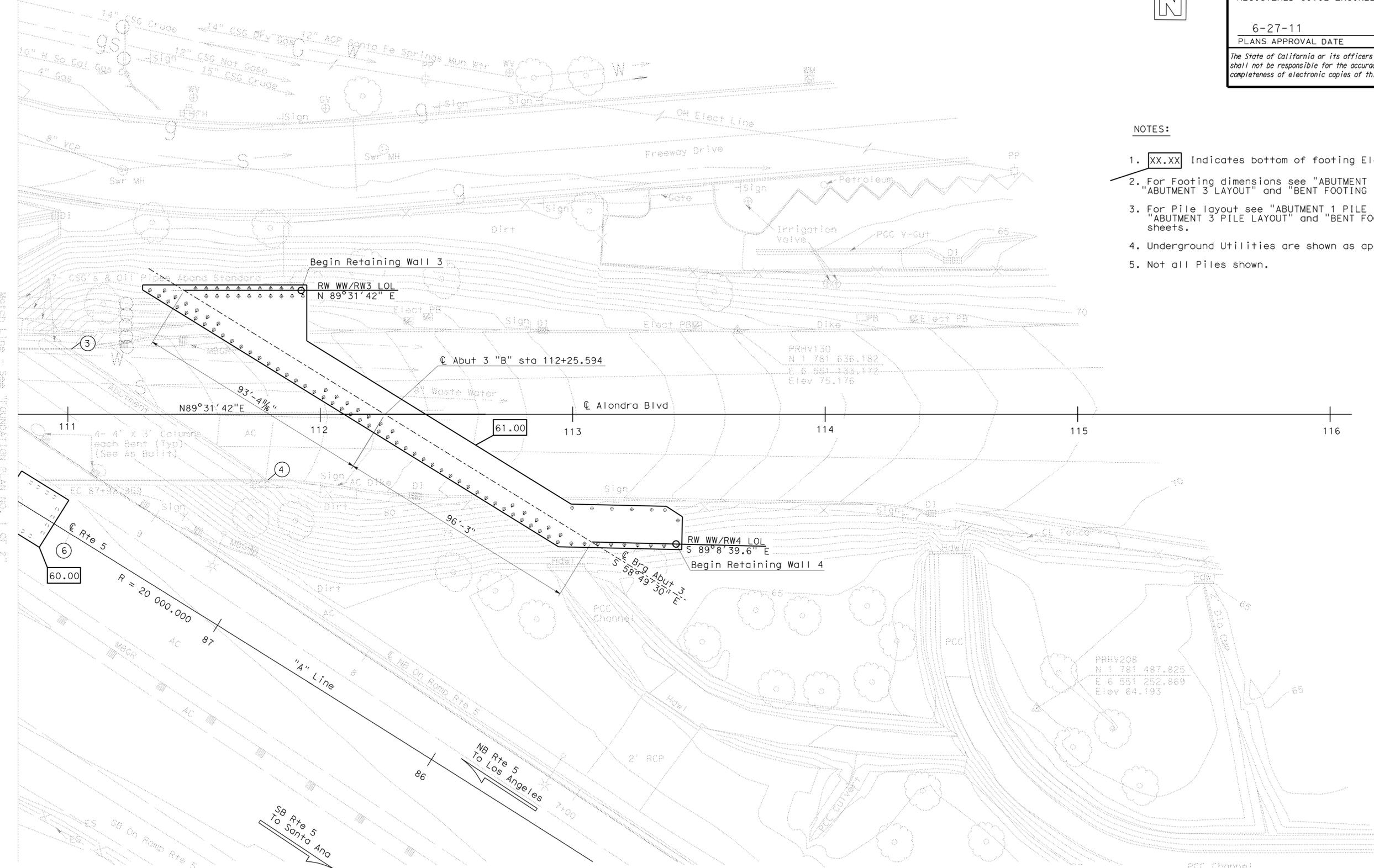
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REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
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Bridge Location

- ③ 62.370 Rt. C Rte 5, Sta 88+06.570, Elev 87.738
- ④ 59.350 Rt. C Rte 5, Sta 87+13.390, Elev 84.956

| No. | R | Δ | T | L |
|-----|-----------|-----------|---------|----------|
| ⑥ | 20000.000 | 04°38'46" | 811.339 | 1621.788 |



NOTES:

1. [XX.XX] Indicates bottom of footing Elevation.
2. For Footing dimensions see "ABUTMENT 1 LAYOUT", "ABUTMENT 3 LAYOUT" and "BENT FOOTING DETAILS" sheets.
3. For Pile layout see "ABUTMENT 1 PILE LAYOUT", "ABUTMENT 3 PILE LAYOUT" and "BENT FOOTING DETAILS" sheets.
4. Underground Utilities are shown as approximate.
5. Not all Piles shown.

NOTE:

Underground utilities as shown are approximate

SURVEY CONTROL
See "FOUNDATION PLAN NO. 1 OF 2"

| | | | | | | | | | | | | |
|------------------------------------------|--------------------------------|-------------------------|--------------------------------|--------------------|---------------------------|---------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------|---------------|
| PRELIMINARY INVESTIGATION SECTION | | | | DESIGN | BY Krishnakant Andurlekar | CHECKED Eric Watson | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | 53-3038 | ALONDRA BLVD OC (REPLACE) FOUNDATION PLAN 2 OF 2 | |
| SCALE | VERT. DATUM NAVD88(1986 EPOCH) | PHOTOGRAMMETRY AS OF: X | DETAILS | BY Jaime Ramirez | CHECKED Eric Watson | POST MILE | | | 1.68 | | | |
| 1:20 | HORZ. DATUM NAD83 | SURVEYED BY D 12 | CHECKED BY T. Phung/C. Stewart | QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kenp | | | | | | |
| ALIGNMENT TIES Dist Traverse Sheets | | | | DRAFTED BY C. Pham | CHECKED BY E. Viagar | | CU 07 | EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | REVISION DATES 09/20/09 11/30/09 12/7/09 1/11/10 4/19/10 4/27/10 5/16/10 8/12/10 8/26/10 3/21/11 | SHEET 7 OF 49 |

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

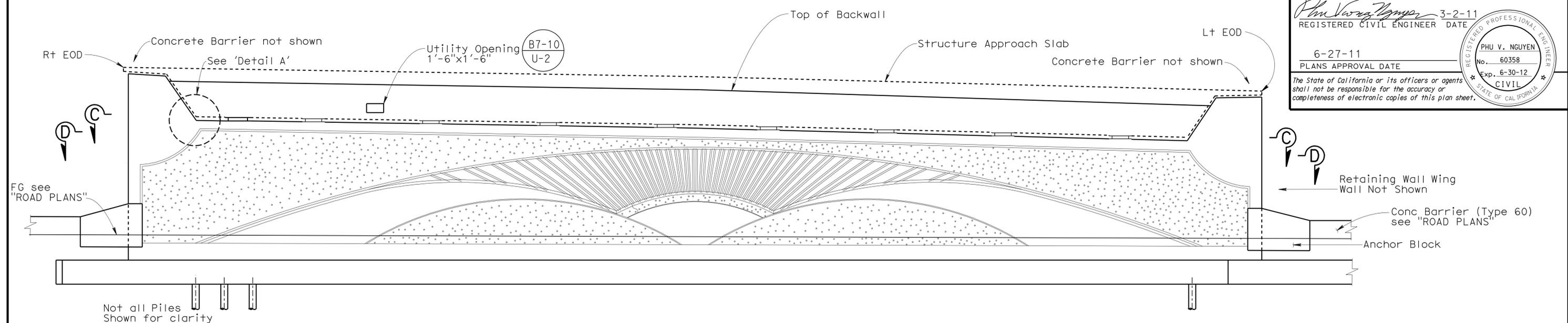
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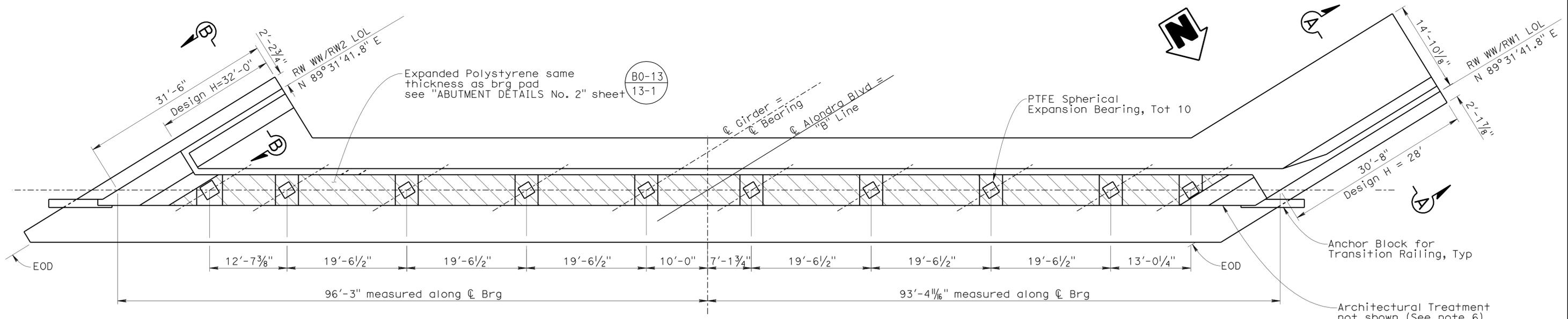
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| 07 | LA | 5 | 1.2/2.1 | 425 | 602 |

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REGISTERED PROFESSIONAL ENGINEER
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



ELEVATION
1/8"=1'-0"



PLAN
1/8"=1'-0"

LEGEND
 - Indicates Expanded Polystyrene

- NOTES:**
- For 'Detail A', see "ABUTMENT DETAILS No 1" sheet.
 - For 'Section A-A' and 'Section B-B', see "ABUTMENT DETAILS No. 3" sheet.
 - For 'Section C-C' & 'Section D-D' see "ABUTMENT DETAILS No. 4" sheet.
 - For PTFE Spherical Bearing, see "PTFE/SPHERICAL EXPANSION BEARING DETAILS No. 1" sheet.
 - For anchor block details, see "ABUTMENT DETAILS No. 5" sheet.
 - For Architectural Treatment, see "ARCHITECTURAL ELEVATIONS AT ABUTMENTS" AND "ARCHITECTURAL MOTIF AT ABUTMENTS" sheets.

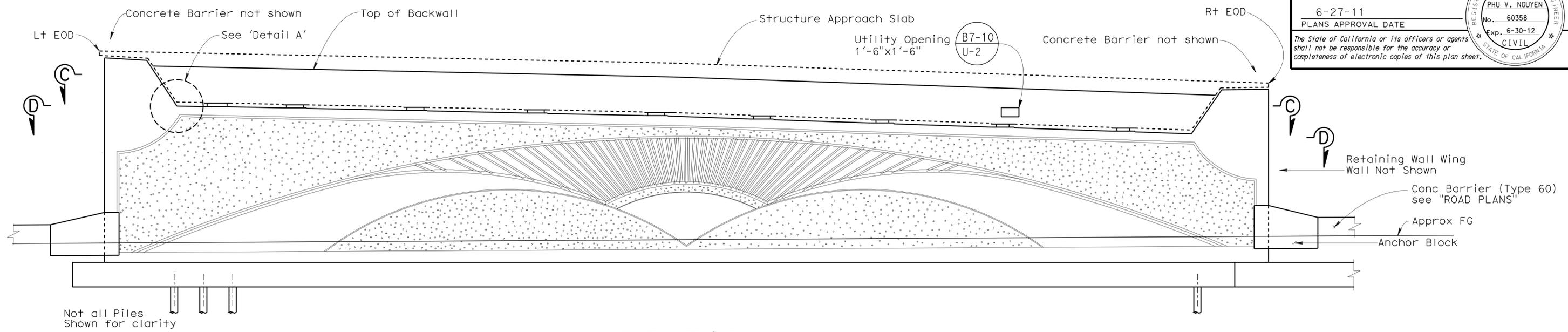
| | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------|
| DESIGN BY Krishnakant Andurlekar CHECKED Eric Watson DETAILS BY Jaime Ramirez CHECKED Eric Watson QUANTITIES BY Krishnakant Andurlekar CHECKED Bill Kemp | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. 53-3038 | ALONDRA BLVD OC (REPLACE) ABUTMENT 1 LAYOUT | SHEET 8 OF 49 |
| | | | POST MILE 1.68 | | |
| | | | REVISION DATES 6-24-09 3-30-10 4-27-10 6-3-10 10-13-10 2-17-11 3-21-11 7-24-10 3-24-10 | | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | CU 07227 EA 215911 | FILE => 53-3038-f-a01_lo1.dgn | DISREGARD PRINTS BEARING EARLIER REVISION DATES | 8 | 49 |

| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 426 | 602 |

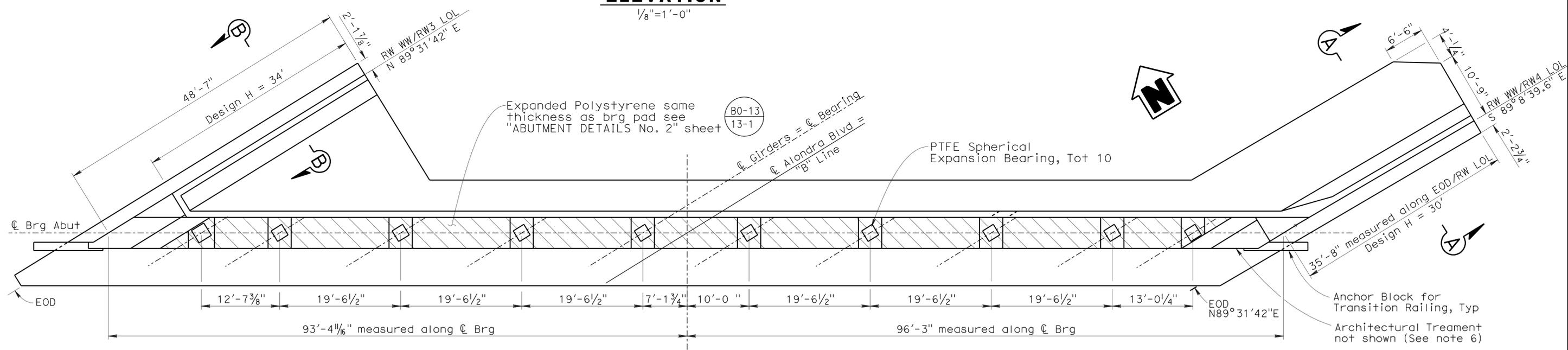
PHU V. NGUYEN
 REGISTERED CIVIL ENGINEER
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE

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ELEVATION
1/8"=1'-0"



PLAN
1/8"=1'-0"

LEGEND
 - Indicates Expanded Polystyrene

- NOTES:**
- For 'Detail A', see "ABUTMENT DETAILS No 1" sheet.
 - For 'Section A-A' and 'Section B-B', see "ABUTMENT DETAILS No. 3" sheet.
 - For 'Section C-C' and 'Section D-D', see "ABUTMENT DETAILS No. 4" sheet.
 - For PTFE Spherical Bearing, see "PTFE/SPHERICAL EXPANSION BEARING DETAILS No. 1" sheet.
 - For Anchor Block details, see "ABUTMENT DETAILS No. 5" sheet.
 - For Architectural Treatment, see "ARCHITECTURAL ELEVATIONS AT ABUTMENTS" AND "ARCHITECTURAL MOTIF AT ABUTMENTS" sheets.

| | | |
|------------|---------------------------|---------------------|
| DESIGN | BY Krishnakant Andurlekar | CHECKED Eric Watson |
| DETAILS | BY Jaime Ramirez | CHECKED Eric Watson |
| QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp |

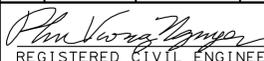
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

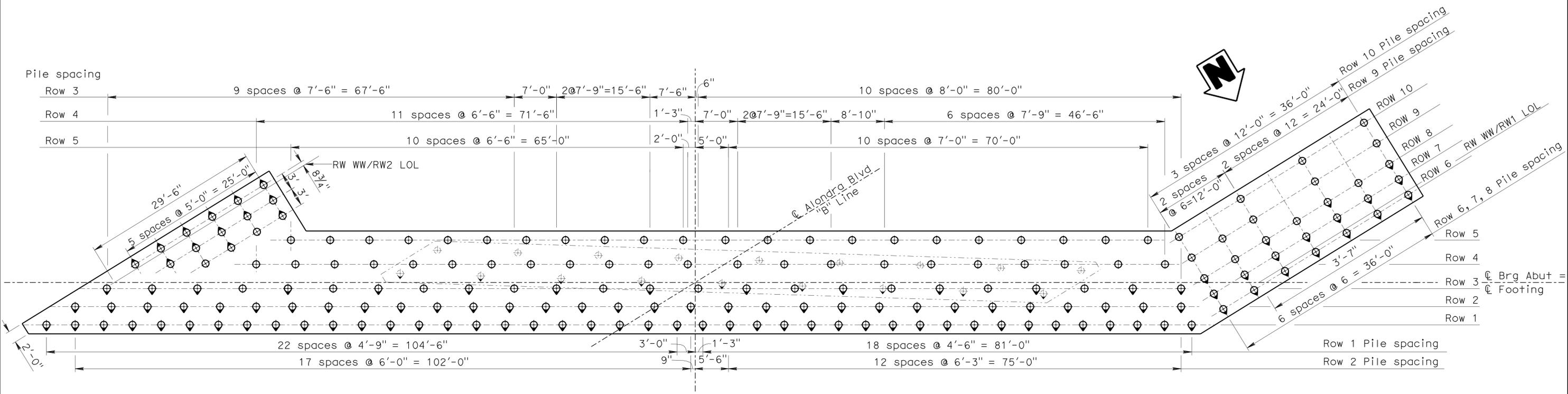
| | |
|------------|---------|
| BRIDGE NO. | 53-3038 |
| POST MILE | 1.68 |

ALONDRA BLVD OC (REPLACE)
ABUTMENT 3 LAYOUT

| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 427 | 602 |

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 PHU V. NGUYEN
 No. 60358
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PILE LAYOUT (ABUTMENT 1)

1/8" = 1'-0"

Note: Approximate elevation of bottom of existing footing = 78.0

Legend:

- ⊕ - Indicates Vertical Pile
- ⊕ - Indicates Battered Pile 1:3
- ⊕ - Indicates existing Pile
- - Indicates existing footing

NOTES:

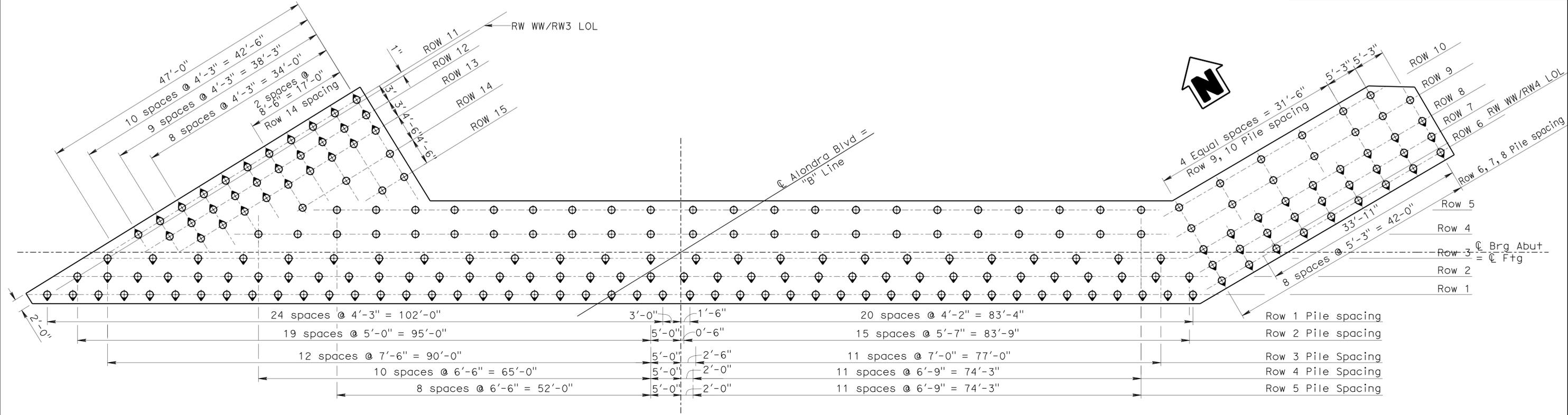
1. Contractor to ascertain existing locations of piles at Abutment 1. With Engineers approval locations of new piles at Abutment 1 may be adjusted to accommodate any conflicts with existing piles due to field conditions.
2. For Piles spacings between Row 6 to Row 10, see "ABUTMENT DETAILS No. 3" sheet.
3. For Footing dimensions, see "ABUTMENT 1 LAYOUT" sheet.

| | | | | | | | | | | | | | | |
|----------------------------------------------------------|------------|---------------------------|---------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------|----------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|---------|----------|---------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN | BY Krishnakant Andurlekar | CHECKED Eric Watson | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | 53-3038 | ALONDRA BLVD OC (REPLACE) ABUTMENT 1 PILE LAYOUT | | | | | | |
| | DETAILS | BY Jaime Ramirez | CHECKED Eric Watson | | | POST MILE | 1.68 | | | | | | | |
| | QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp | | | CU 07227 EA 215911 | REVISION DATES | | <table border="1" style="font-size: 8px;"> <tr> <td>10-28-09</td> <td>10-15-10</td> <td>3-21-11</td> <td>11-17-09</td> <td>1-12-10</td> <td>2-8-10</td> <td>2-24-10</td> <td>3-16-10</td> <td>3-24-10</td> </tr> </table> | 10-28-09 | 10-15-10 | 3-21-11 | 11-17-09 | 1-12-10 |
| 10-28-09 | 10-15-10 | 3-21-11 | 11-17-09 | 1-12-10 | 2-8-10 | 2-24-10 | 3-16-10 | 3-24-10 | | | | | | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | 0 1 2 3 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | SHEET 10 | OF 49 | | | | | | |

USERNAME => HSTFK DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:41

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
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PHU V. NGUYEN
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 3-2-11
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 6-27-11
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 No. 60358
 Exp. 6-30-12
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PILE LAYOUT (ABUTMENT 3)
 $\frac{1}{8}'' = 1' - 0''$

NOTES:

- For Pile spacings between Row 6 to Row 10, see "ABUTMENT DETAILS No. 3" sheet
- For footing dimensions, see "ABUTMENT 3 LAYOUT " sheet

LEGEND:

- ⊕ - Indicates Vertical Pile
- ⊗ - Indicates Battered Pile 1:3

| DESIGN | BY | Krishnakant Andurlekar | CHECKED | Eric Watson | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | ALONDRA BLVD OC (REPLACE) | | | | | | |
|----------------------------------------------------------|---------|------------------------|---------------|-------------|-----------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------|----|----------|----|----|
| | DETAILS | BY | Jaime Ramirez | CHECKED | | | Eric Watson | 53-3038 | ABUTMENT 3 PILE LAYOUT | | | | | |
| QUANTITIES | BY | Krishnakant Andurlekar | CHECKED | Bill Kemp | POST MILE | 1.68 | | | | | | | | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | <table border="1"> <tr> <th>REVISION DATES</th> <th>SHEET</th> <th>OF</th> </tr> <tr> <td>10-28-09</td> <td>11</td> <td>49</td> </tr> </table> | REVISION DATES | SHEET | OF | 10-28-09 | 11 | 49 |
| REVISION DATES | SHEET | OF | | | | | | | | | | | | |
| 10-28-09 | 11 | 49 | | | | | | | | | | | | |

USERNAME => HSTFK DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:41

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 429 | 602 |

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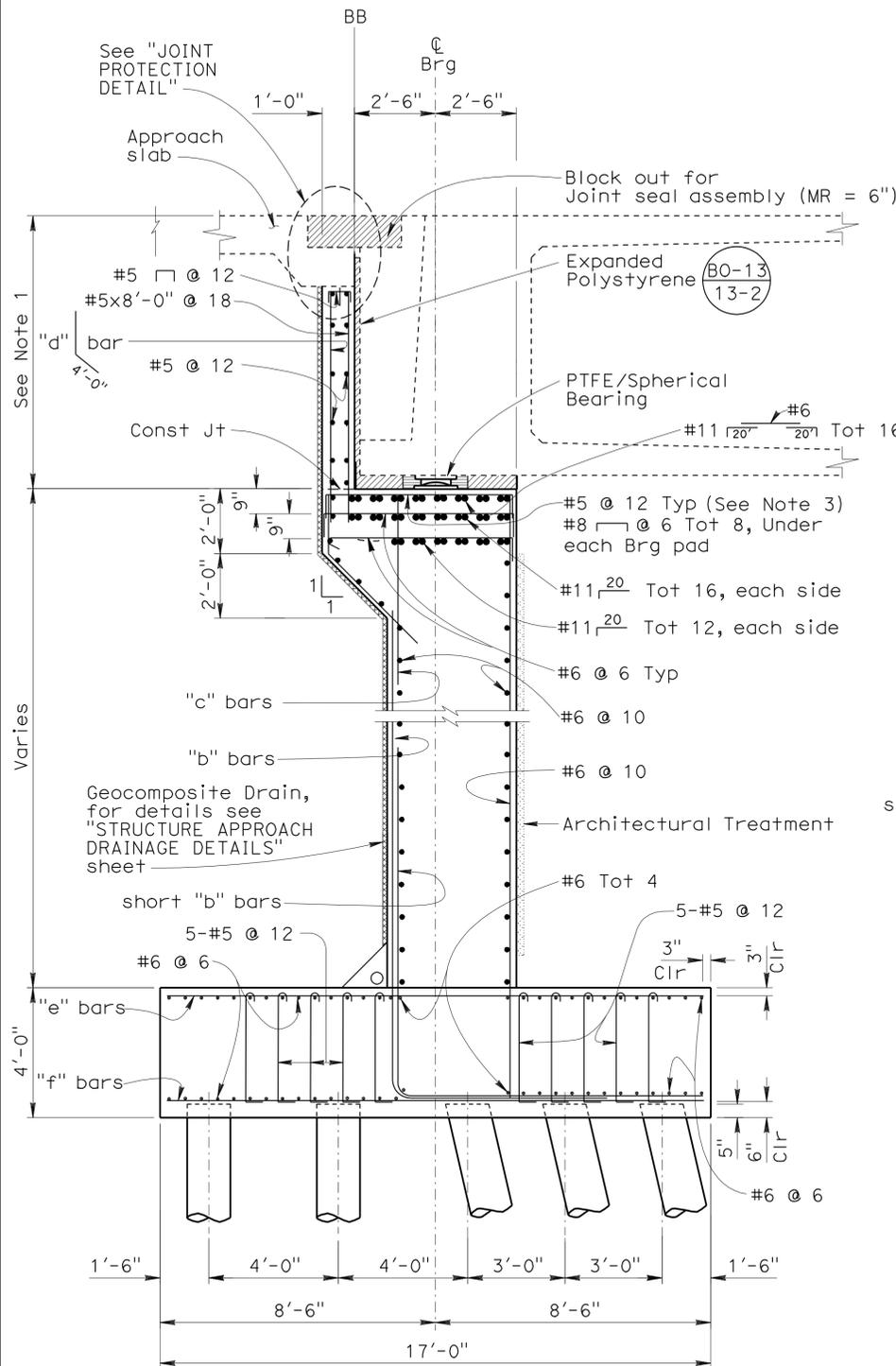
3-2-11
 REGISTERED CIVIL ENGINEER DATE

6-27-11
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TABLE OF REINFORCING STEEL

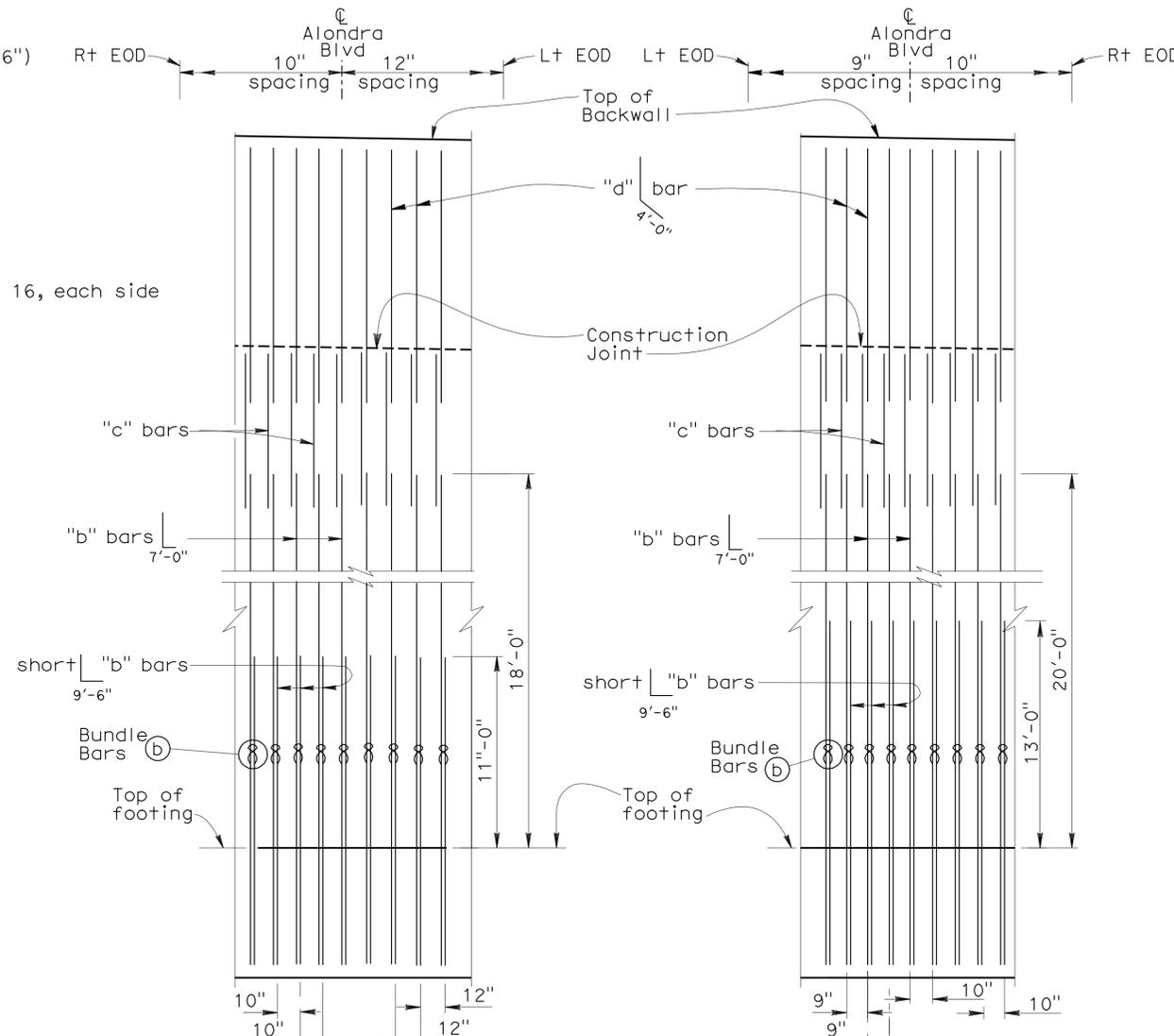
| | "b" bars (Bar size) | "c" bars (Bar size) | "d" bars (Bar size) | "e" bars (Bar size) | "f" bars (Bar size) |
|--------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Abut 1 | #11 @ 10/12 | #9 @ 10/12 | #5 @ 10 | #9 @ 10 | #9 @ 10 |
| Abut 3 | #11 @ 9/10 | #9 @ 9/10 | #5 @ 9 | #9 @ 9 | #9 @ 9 |



ABUTMENT TYPICAL SECTION

3/8"=1'-0"

(NOTE: Abutment 1 shown, Abutment 3 similar)

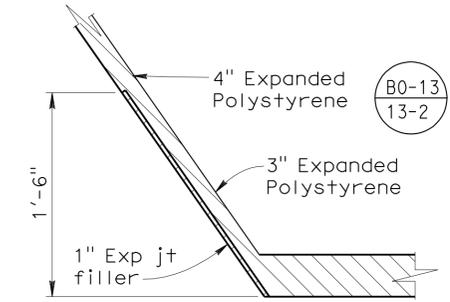


PARTIAL ABUTMENT 1 ELEVATION

NO SCALE

PARTIAL ABUTMENT 3 ELEVATION

NO SCALE



DETAIL A

No Scale

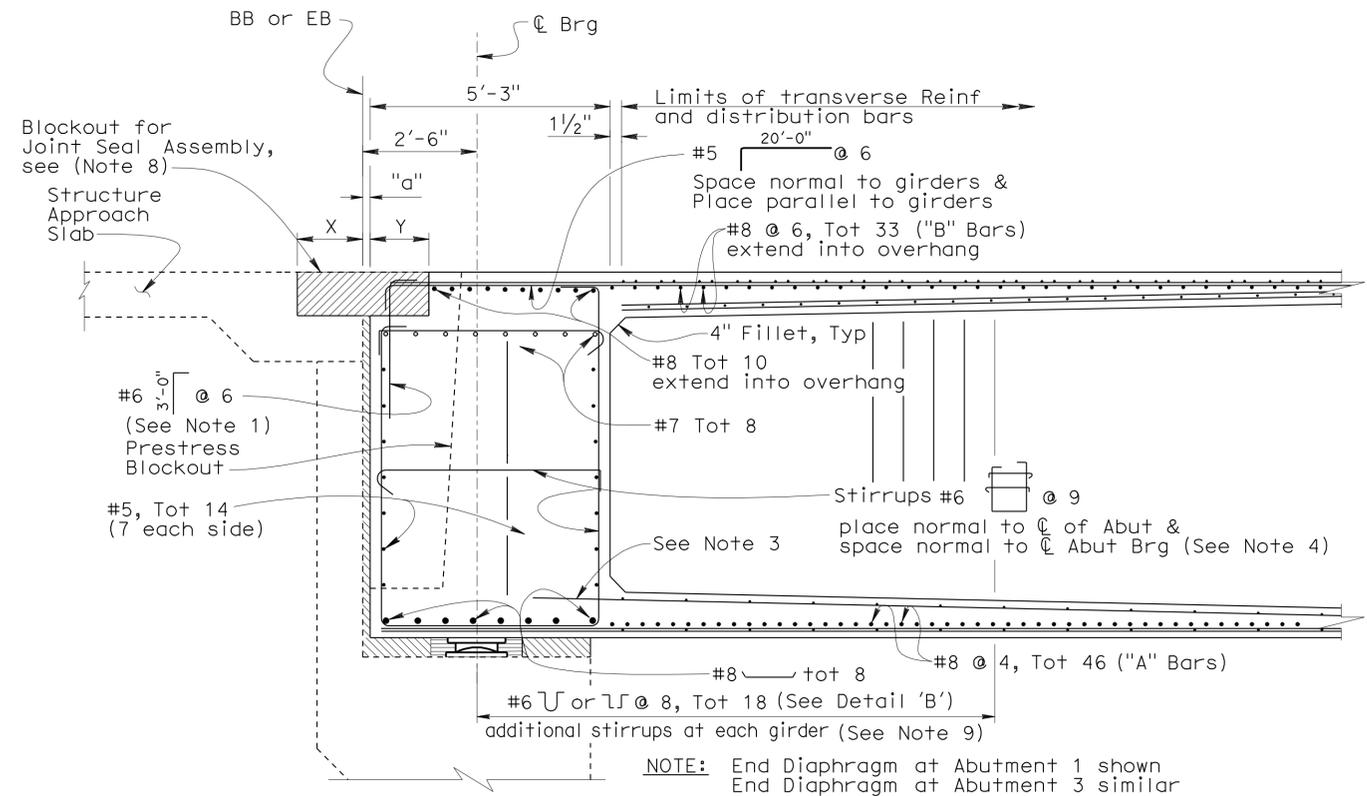
NOTES:

1. Place Abut Back wall, Retaining Wall Wing Wall after prestressing operation is complete.
2. For "JOINT PROTECTION DETAIL", see "ABUTMENT DETAILS No. 2" sheet.
3. Place the reinforcement normal to \perp Abut and space normal to \perp Abut Brg.
4. For PTFE/Spherical expansion bearing, see "PTFE/SPHERICAL EXPANSION BEARING DETAILS No. 1" sheet.
5. For Architectural Treatment, see "ARCHITECTURAL ELEVATIONS AT ABUTMENTS" AND "ARCHITECTURAL MOTIF AT ABUTMENTS" sheets.

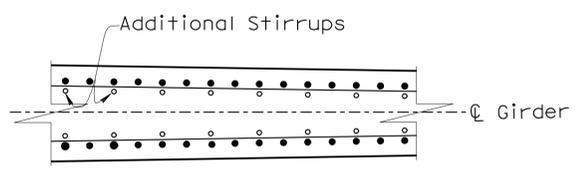
| | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| DESIGN BY Krishnakant Andurlekar CHECKED Eric Watson DETAILS BY Jaime Ramirez CHECKED Eric Watson QUANTITIES BY Krishnakant Andurlekar CHECKED Bill Kemp | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. 53-3038 | ALONDRA BLVD OC (REPLACE) ABUTMENT DETAILS No. 1 |
| | | | POST MILE 1.68 | |
| | | | REVISION DATES 6-26-09 12-18-09 12-14-09 1-17-10 2-8-10 2-24-10 4-1-10 10-18-10 3-7-11 3-21-11 | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | SHEET 12 OF 49 |

| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 430 | 602 |

REGISTERED CIVIL ENGINEER DATE 3-2-11
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE 6-27-11
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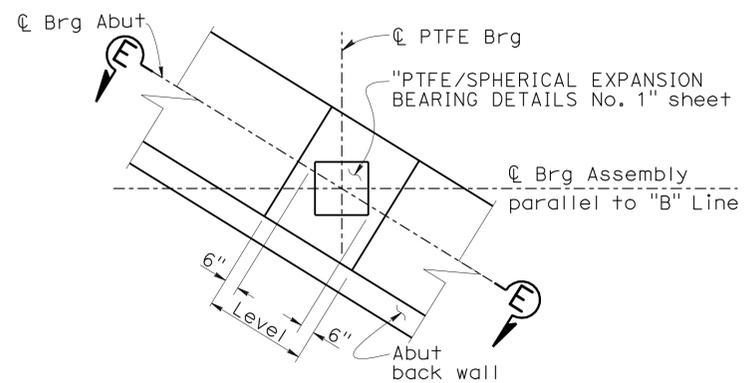


END DIAPHRAGM TYPICAL SECTION
1/2"=1'-0"

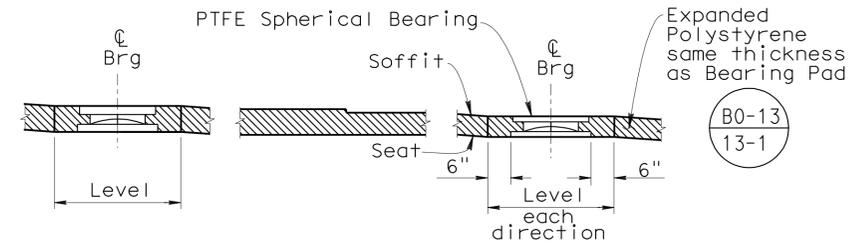


PLAN VIEW

DETAIL B
No Scale



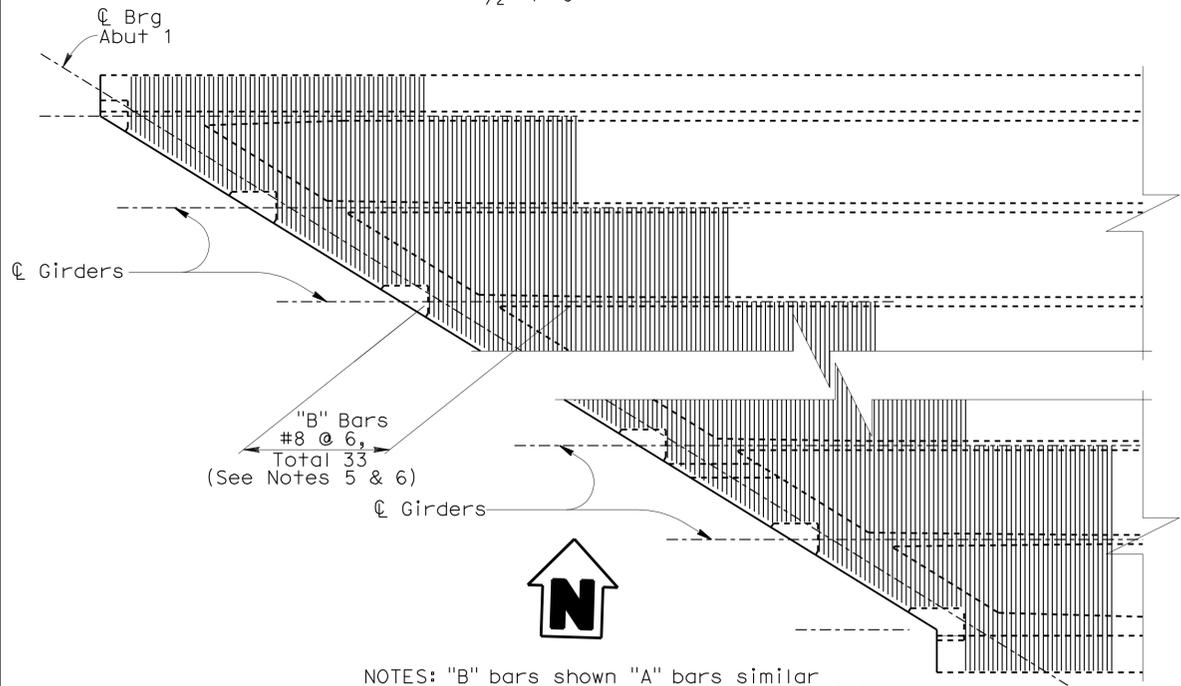
Note: Detail typical at all bearing pads
PTFE SPHERICAL BEARING LAYOUT DETAIL
No Scale



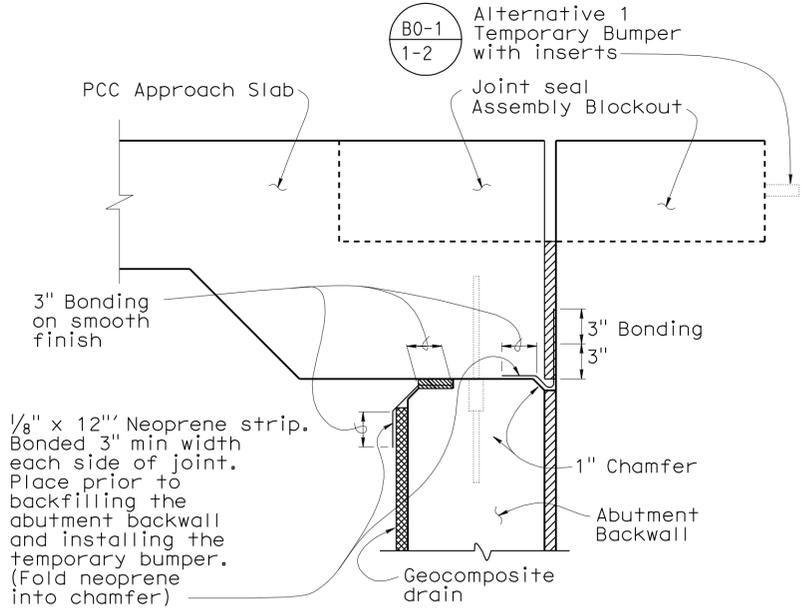
SECTION E-E
No Scale

NOTES:

1. Reinf extending into the joint seal blockout may be adjusted as necessary to accommodate installation of joint seal assembly upon approval of joint seal shop plans and as directed by the Engineer.
2. For transverse Reinf & distribution bars, see 'Part Typical Section "TYPICAL SECTION" sheet.
3. Extend 2'-0" into End Diaphragm.
4. Adjust position of stirrups to avoid prestress tendons.
5. Extend reinforcement to at least the second girder beyond girder of note, within 16 ft distance from bearing plate.
6. Bars can be placed as shown or as directed by the Engineer.
7. X is greater than or equal to Y, 18" Max.
8. For Abutment Joint Seal Assembly, see "JOINT SEAL ASSEMBLY MOVEMENT RATING GREATER THAN 4" sheet.
9. Stirrups shown are in addition to Stirrups shown on "GIRDER LAYOUT No. 2" sheet. Place reinforcement as shown or as directed by the Engineer.

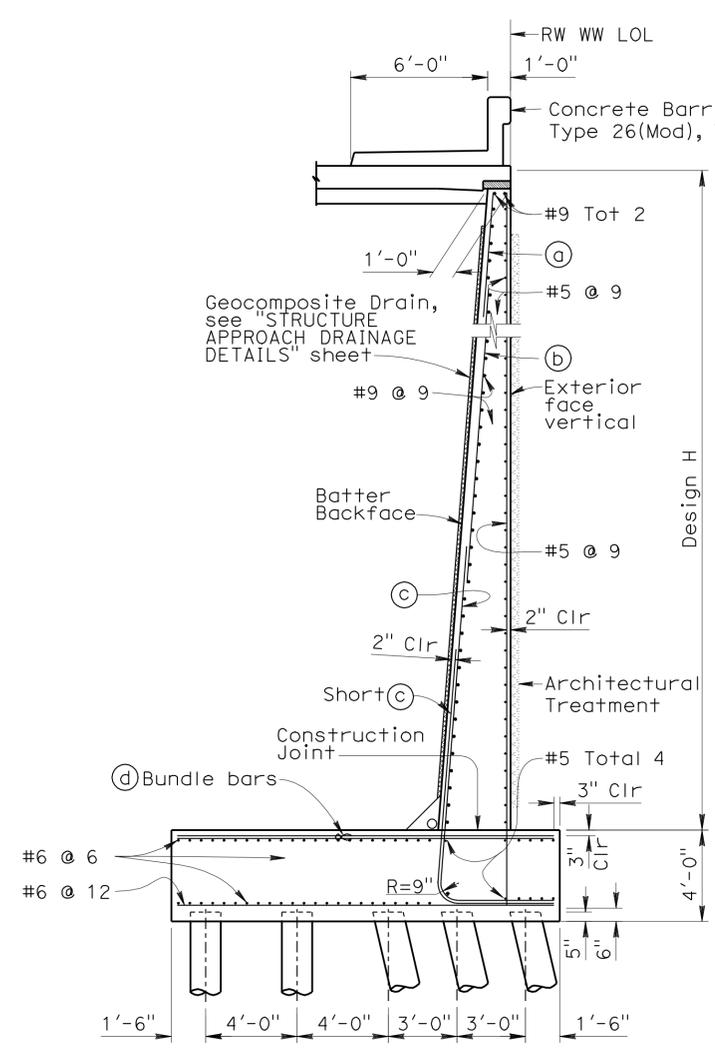


NOTES: "B" bars shown "A" bars similar
Abutment 1 shown Abutment 3 similar
DECK SLAB & BOTTOM SLAB GENERAL ZONE ANCHORAGE REINFORCEMENT DETAIL
1"=20'-0"

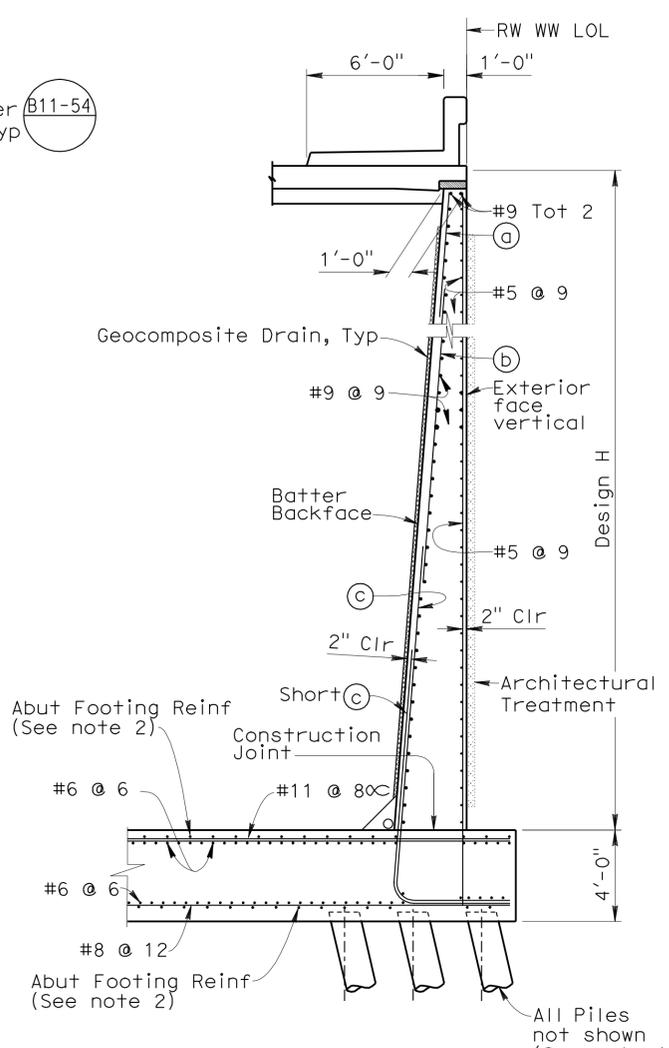


JOINT PROTECTION DETAIL
No Scale

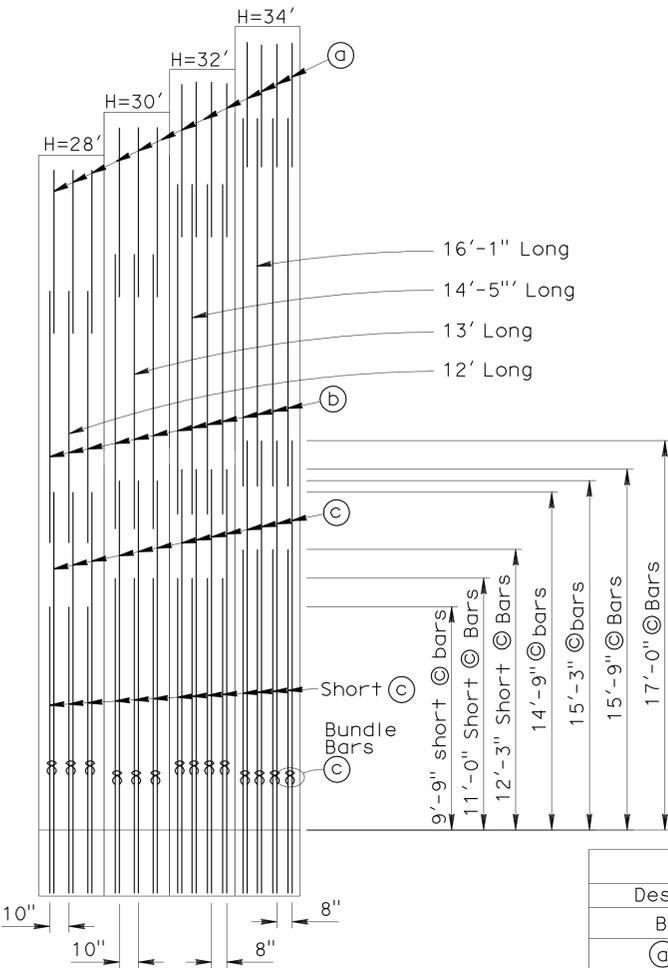
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|----------------------------------------------------------|---------------------------|---------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| DESIGN | BY Krishnakant Andurlekar | CHECKED Eric Watson | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | ALONDRA BLVD OC (REPLACE) ABUTMENT DETAILS No. 2 |
| DETAILS | BY Jaime Ramirez | CHECKED Eric Watson | | | 53-3038 | |
| QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp | | | POST MILE 1.68 | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | | | | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 9-7-09, 9-28-09, 3-24-10, 4-7-10, 4-27-10, 10-13-10, 12-5-10, 3-21-11, 2-8-10 | SHEET 13 OF 49 |



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



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

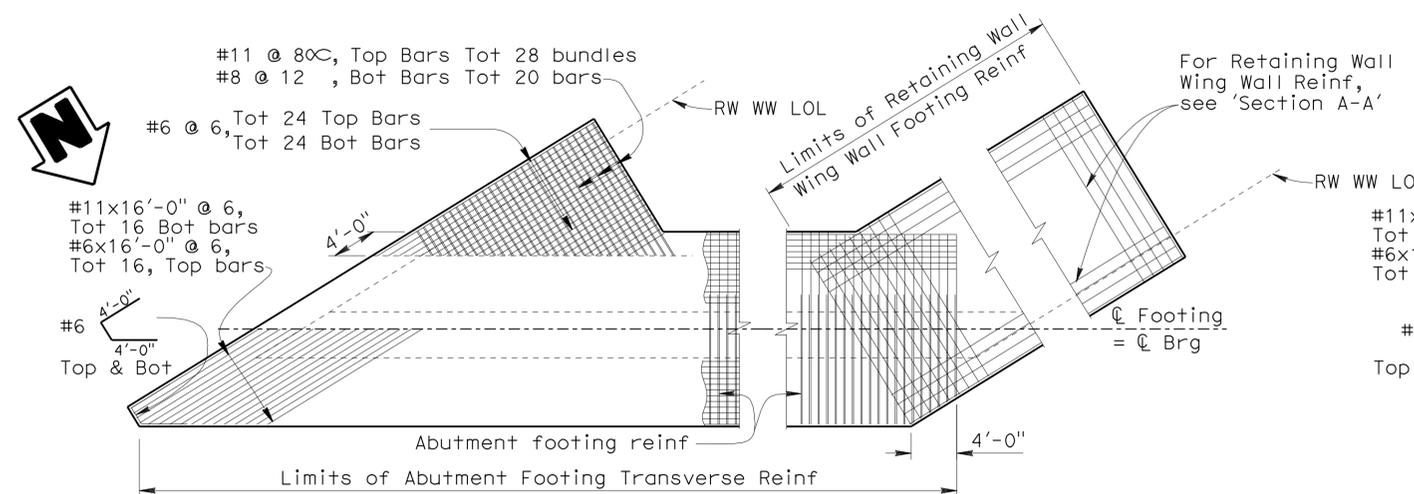


ELEVATION
No Scale

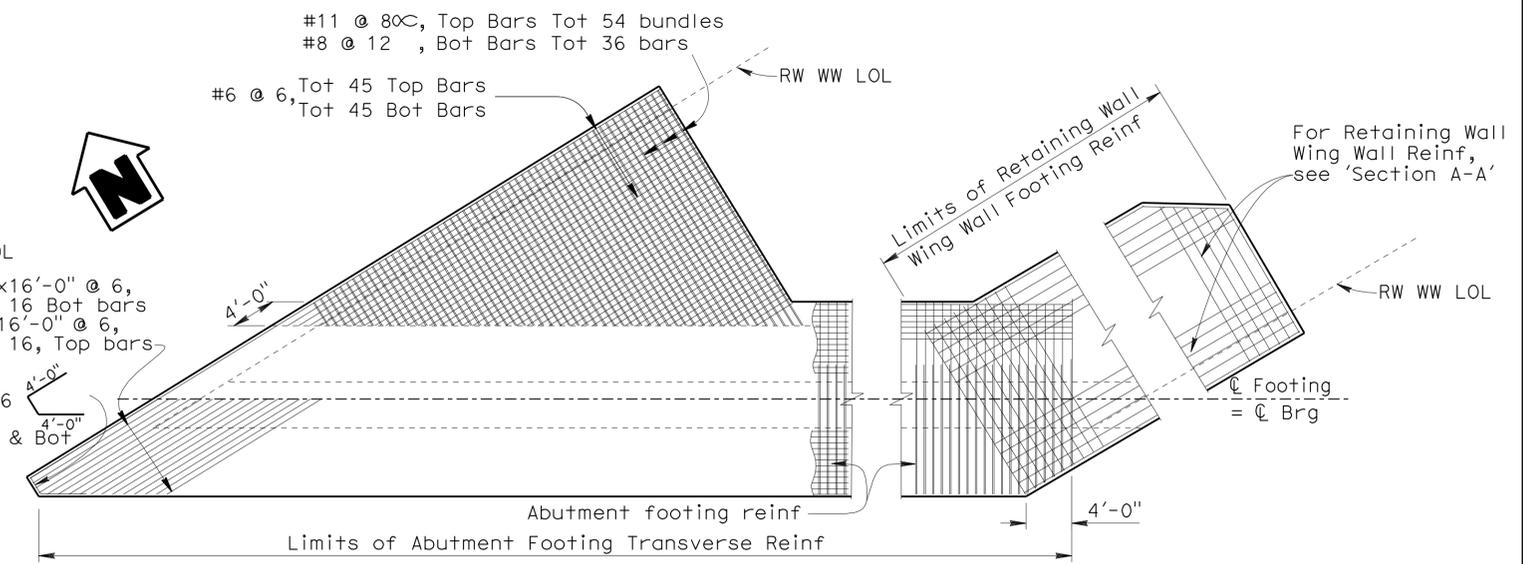
NOTES:

- For pile layouts see "ABUTMENT 1 PILE LAYOUT" and "ABUTMENT 3 PILE LAYOUT" sheets.
- For Abutment Footing Reinf, see "ABUTMENT DETAILS No. 1" sheet.
- For Section cut A-A & B-B, see "ABUTMENT 1 LAYOUT" and "ABUTMENT 3 LAYOUT" sheets.
- For Architectural Treatment see "PARTIAL ELEVATIONS AT RETAINING WALLS 1 & 2" and "PARTIAL ELEVATIONS AT RETAINING WALLS 3 & 4" sheets.

| Design H | 28' | 30' | 32' | 34' |
|----------|----------|----------|---------|---------|
| Batter | 3/4:12 | 7/8:12 | 1:12 | 1:12 |
| (a) Bars | #5 @ 10 | #5 @ 10 | #5 @ 8 | #5 @ 8 |
| (b) Bars | #8 @ 10 | #9 @ 10 | #9 @ 8 | #9 @ 8 |
| (c) Bars | #11 @ 10 | #11 @ 10 | #11 @ 8 | #11 @ 8 |
| (d) Bars | #11 @ 10 | #11 @ 10 | #11 @ 8 | #11 @ 8 |



ABUTMENT 1 FOOTING ADDITIONAL REINFORCEMENT
1/8"=1'-0"



ABUTMENT 3 FOOTING ADDITIONAL REINFORCEMENT
1/8"=1'-0"

| | | |
|------------|---------------------------|---------------------|
| DESIGN | BY Krishnakant Andurlekar | CHECKED Eric Watson |
| DETAILS | BY Jaime Ramirez | CHECKED Eric Watson |
| QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp |

STATE OF CALIFORNIA
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DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 11

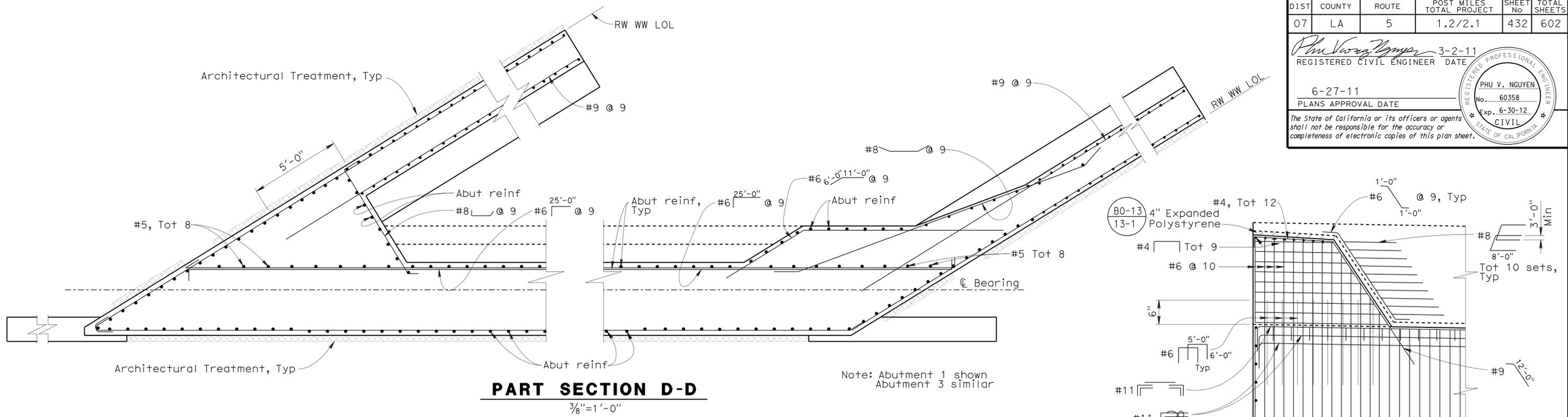
BRIDGE NO. 53-3038
POST MILE 1.68

ALONDRA BLVD OC (REPLACE)
ABUTMENT DETAILS No. 3

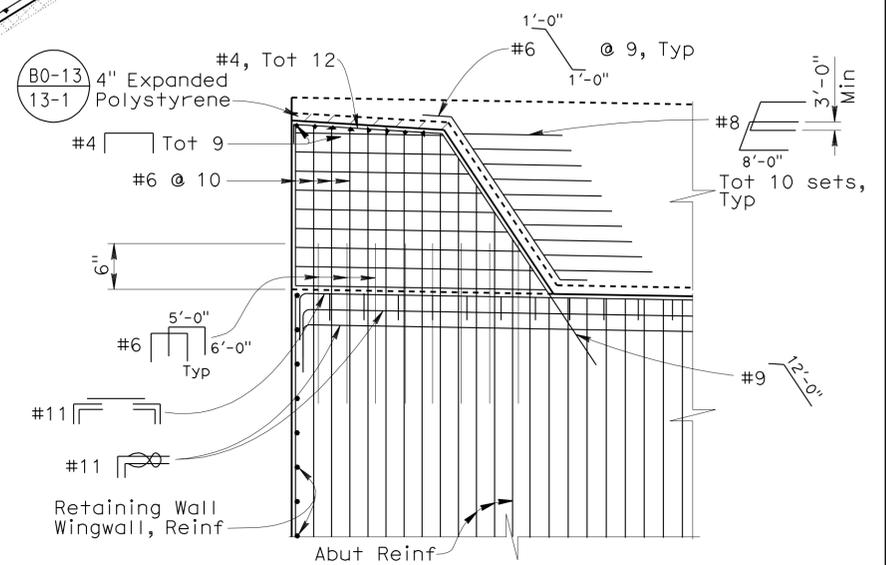
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 432 | 602 |

Phu Vuong Nguyen 3-2-11
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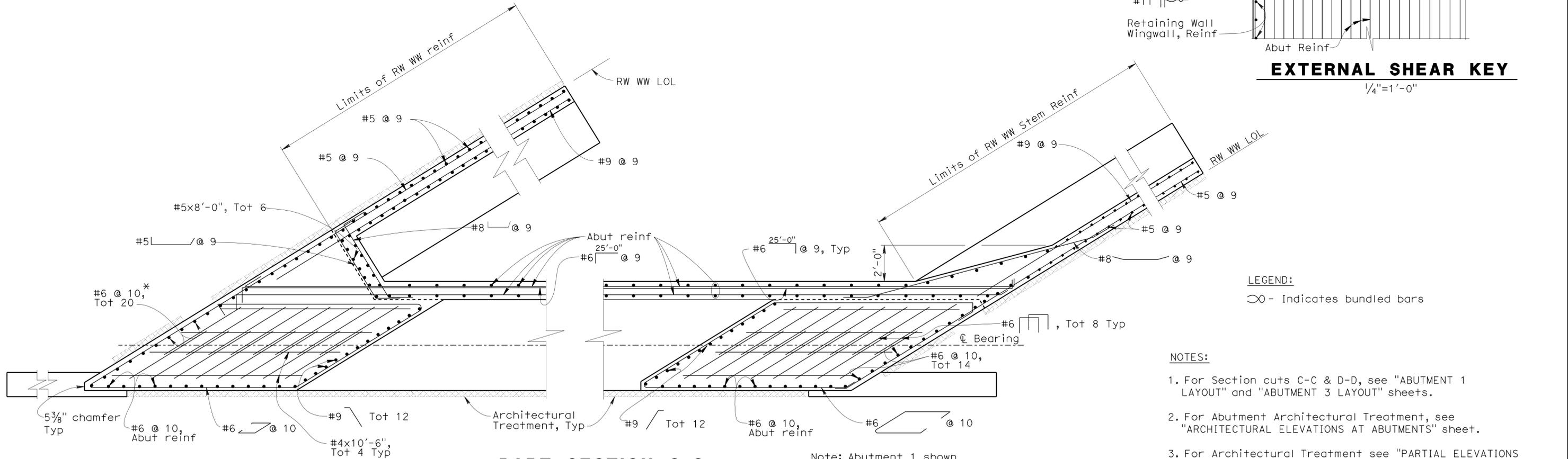
| |
|----------------------------------|
| REGISTERED PROFESSIONAL ENGINEER |
| PHU V. NGUYEN |
| No. 60358 |
| Exp. 6-30-12 |
| CIVIL |
| STATE OF CALIFORNIA |



PART SECTION D-D
3/8"=1'-0"



EXTERNAL SHEAR KEY
1/4"=1'-0"



PART SECTION C-C
3/8"=1'-0"

LEGEND:
∞ - Indicates bundled bars

- NOTES:**
1. For Section cuts C-C & D-D, see "ABUTMENT 1 LAYOUT" and "ABUTMENT 3 LAYOUT" sheets.
 2. For Abutment Architectural Treatment, see "ARCHITECTURAL ELEVATIONS AT ABUTMENTS" sheet.
 3. For Architectural Treatment see "PARTIAL ELEVATIONS AT RETAINING WALLS 1 & 2" and "PARTIAL ELEVATIONS AT RETAINING WALLS 3 & 4" sheets.

| | | |
|------------|---------------------------|---------------------|
| DESIGN | BY Krishnakant Andurlekar | CHECKED Eric Watson |
| DETAILS | BY Jaime Ramirez | CHECKED Eric Watson |
| QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

| | |
|------------|---------|
| BRIDGE NO. | 53-3038 |
| POST MILE | 1.68 |

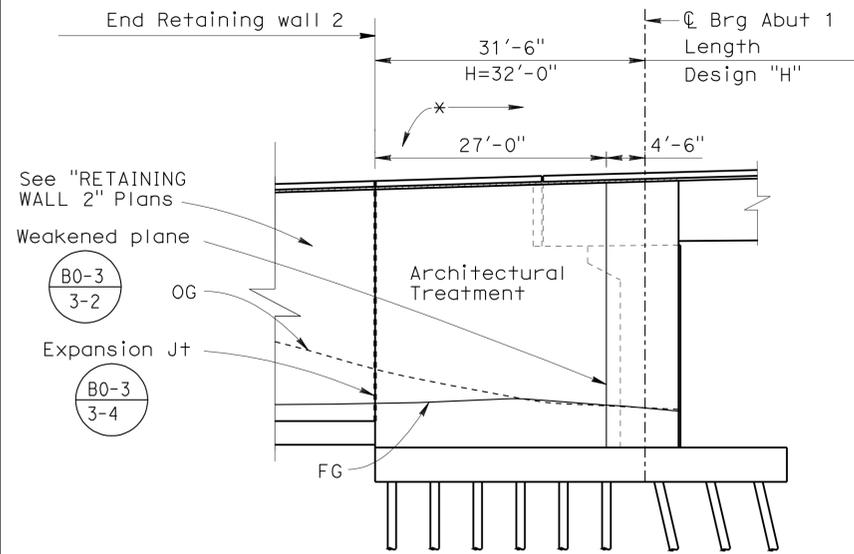
ALONDRA BLVD OC (REPLACE)
ABUTMENT DETAILS No. 4

USERNAME => HSTFK DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:42

| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 433 | 602 |

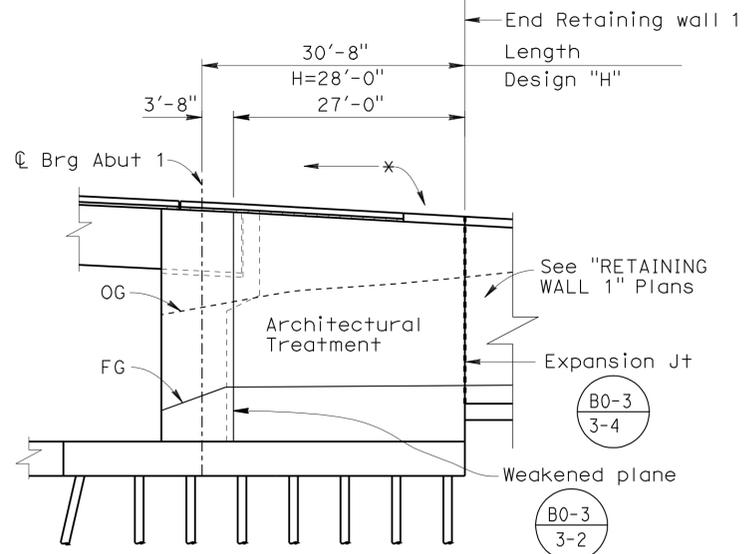
PHU V. NGUYEN
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 No. 60358
 Exp. 6-30-12
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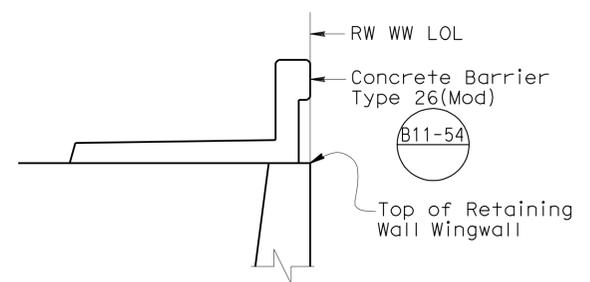
RETAINING WALL WINGWALL/RW 2 ELEVATION ABUTMENT 1 (LHS)

3/32"=1'-0"



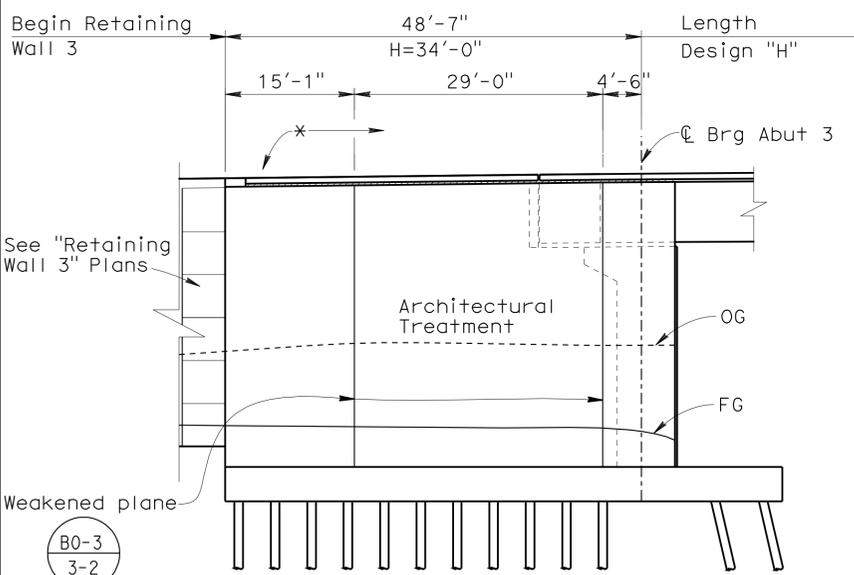
RETAINING WALL WINGWALL/RW 1 ELEVATION ABUTMENT 1 (RHS)

3/32"=1'-0"



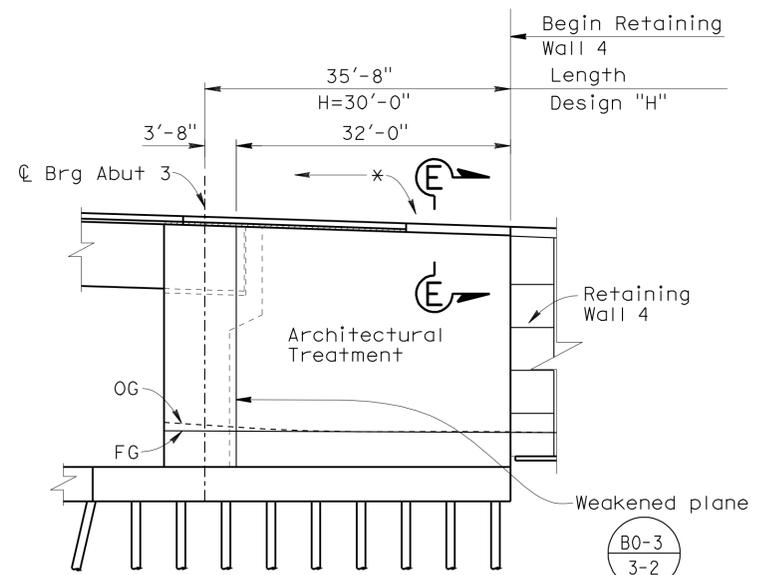
SECTION E-E

3/8"=1'-0"



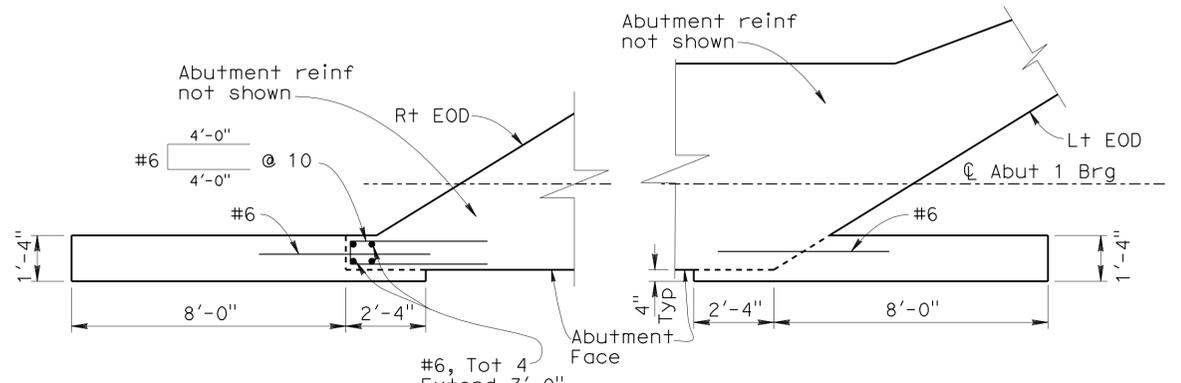
RETAINING WALL WINGWALL/RW 3 ELEVATION ABUTMENT 3 (LHS)

3/32"=1'-0"



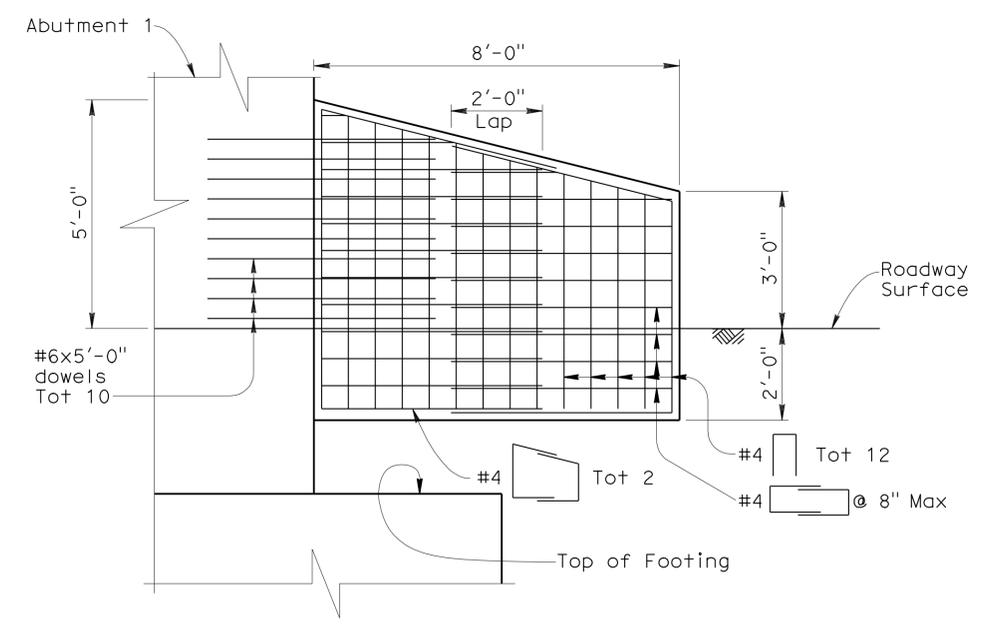
RETAINING WALL WINGWALL/RW 4 ELEVATION ABUTMENT 3 (RHS)

3/32"=1'-0"



PLAN

3/8"=1'-0"



ELEVATION

ANCHOR BLOCK FOR TRANSITION RAILING CONNECTION

1/2"=1'-0"

* - Barrier Not Shown

NOTES:

1. For Architectural Treatment, see "PARTIAL ELEVATIONS AT RETAINING WALLS 1 & 2" and "PARTIAL ELEVATIONS AT RETAINING WALLS 3 & 4" sheets.
2. For Retaining Wall Wingwall reinf, see "ABUTMENT DETAILS No. 3" sheet.

| | | | | |
|--------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------|------------|-------------------------------------------------------------------|
| DESIGN BY Krishnakant Andurlekar CHECKED Eric Watson | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | ALONDRA BLVD OC (REPLACE) ABUTMENT DETAILS No. 5 |
| | | | 53-3038 | |
| | | | POST MILE | |
| DETAILS BY Jaime Ramirez CHECKED Eric Watson | | | 1.68 | |
| QUANTITIES BY Krishnakant Andurlekar CHECKED Bill Kemp | | | | |

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 CU 07227 EA 215911 DISREGARD PRINTS BEARING EARLIER REVISION DATES

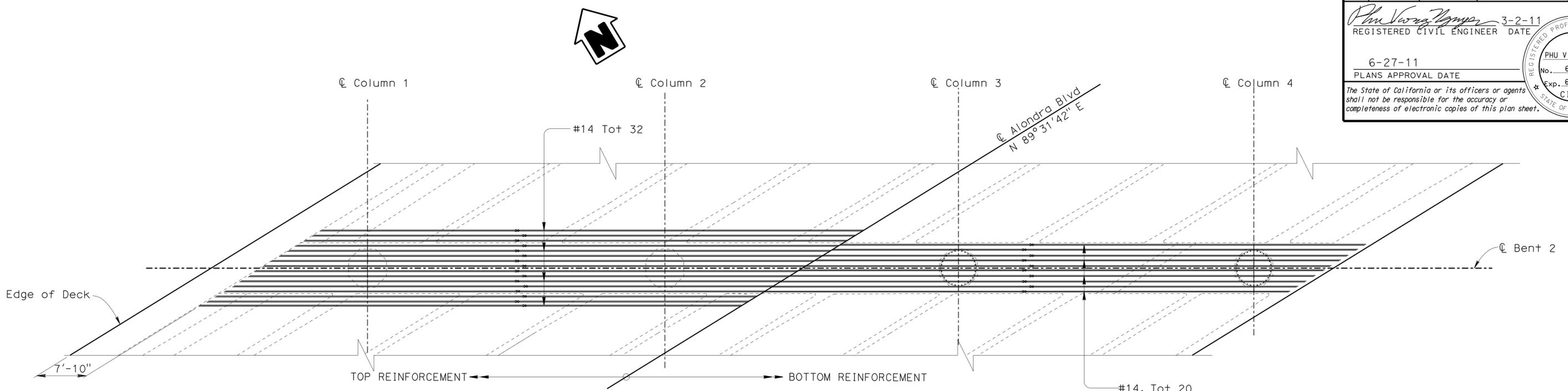
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|----------------|----------|--------|--------|---------|---------|--------|---------|---------|----------|---------|
| REVISION DATES | 12-11-09 | 2-9-10 | 3-9-10 | 3-15-10 | 4-18-10 | 6-3-10 | 6-22-10 | 8-19-10 | 10-13-10 | 3-21-11 |
| SHEET | 16 | | | | | | | | | |
| OF | 49 | | | | | | | | | |

USERNAME => HSTPK DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:42 FILE => 53-3038-f-a01d105.dgn

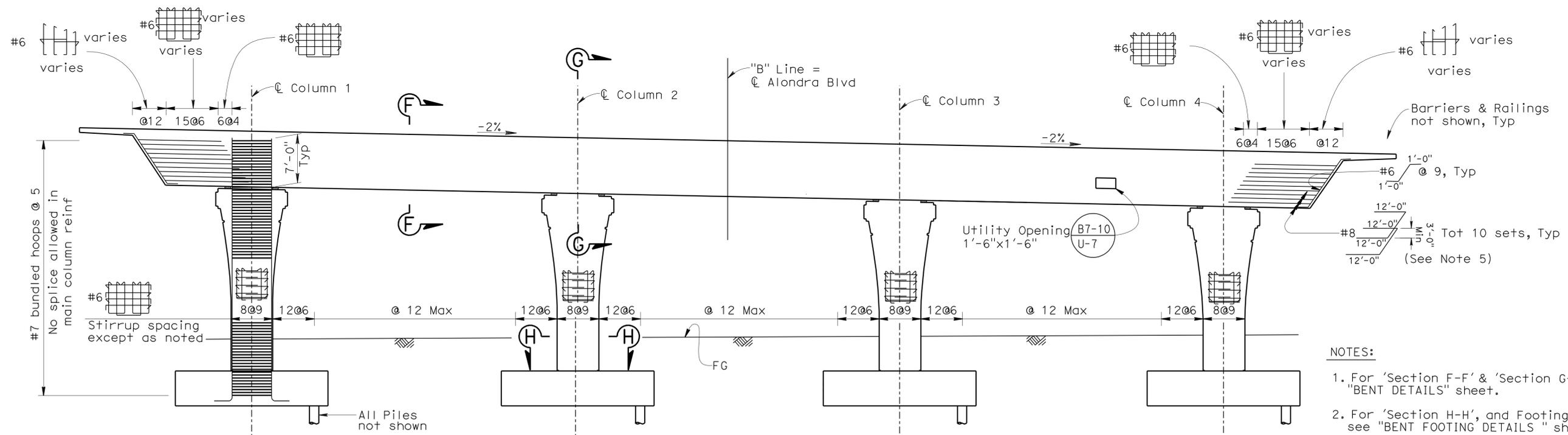
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 434 | 602 |

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
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REGISTERED PROFESSIONAL ENGINEER
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



PLAN
1/8"=1'-0"



ELEVATION
1/8"=1'-0"

- NOTES:**
- For 'Section F-F' & 'Section G-G', see "BENT DETAILS" sheet.
 - For 'Section H-H', and Footing details, see "BENT FOOTING DETAILS" sheet.
 - For Column details and flare reinf, see "COLUMN DETAILS No. 1" sheet.
 - All hoops are Ultimate Butt Spliced.
 - Reinf to align with Bent Cap side face reinf.

| | | |
|------------|---------------------------|---------------------|
| DESIGN | BY Krishnakant Andurlekar | CHECKED Eric Watson |
| DETAILS | BY Jaime Ramirez | CHECKED Eric Watson |
| QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

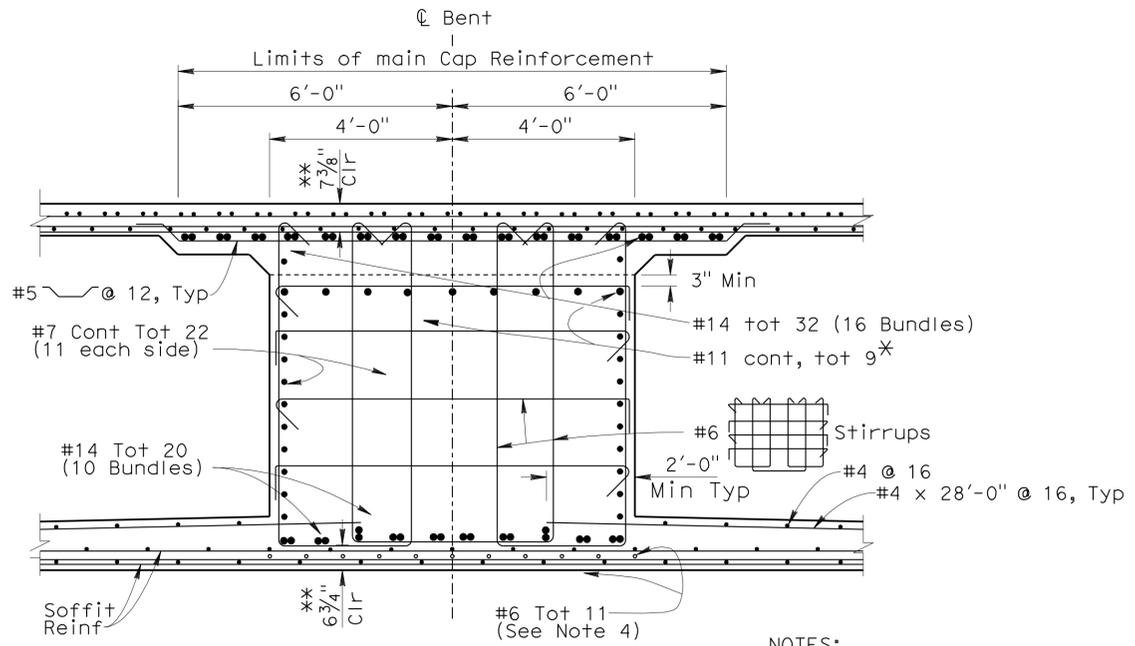
| | |
|------------|---------|
| BRIDGE NO. | 53-3038 |
| POST MILE | 1.68 |

ALONDRA BLVD OC (REPLACE)
BENT LAYOUT

| REVISION DATES | | | | | |
|----------------|---------|---------|----------|---------|----------|
| 8-4-09 | 2-11-10 | 4-20-10 | 10-15-10 | 3-21-11 | 11-24-09 |

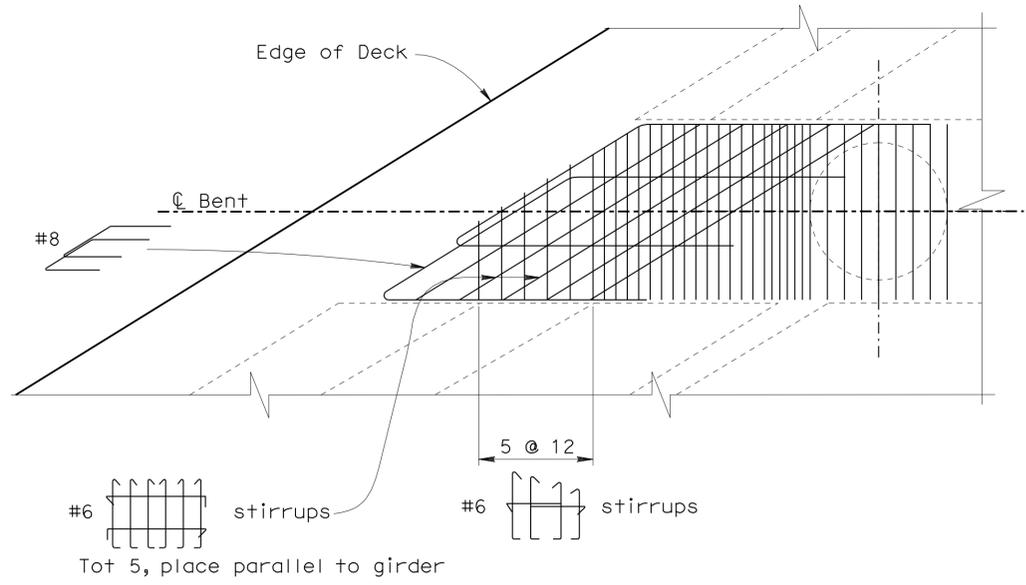
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|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 435 | 602 |

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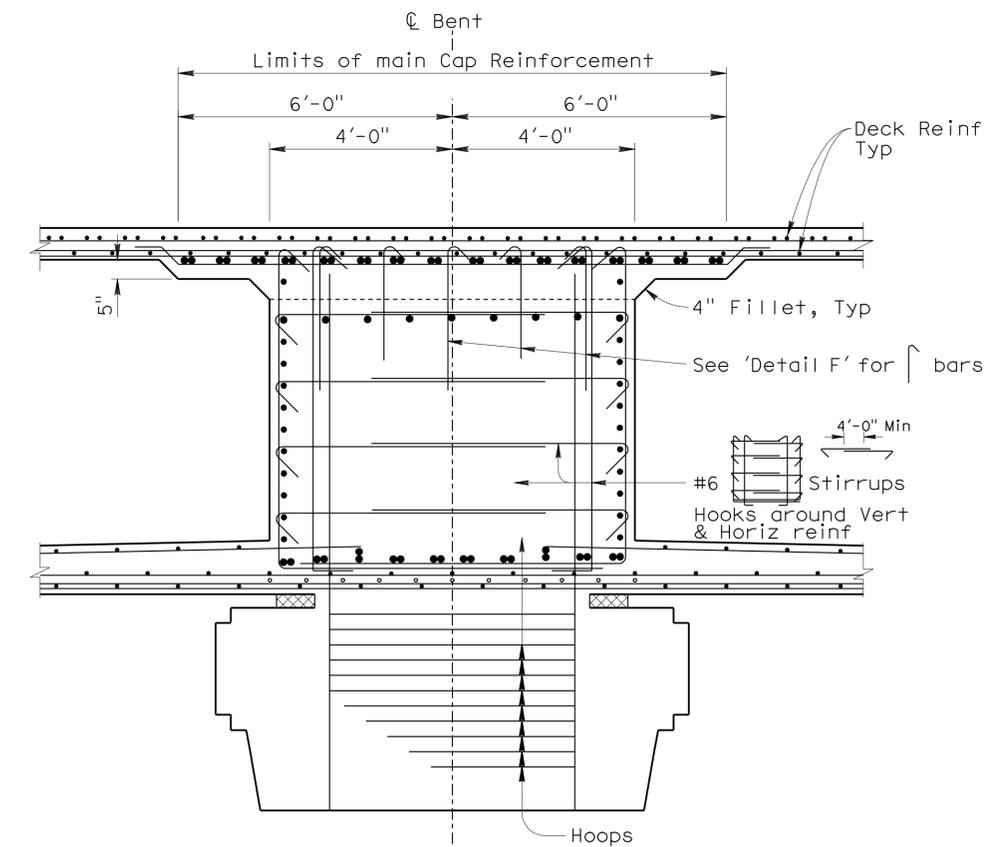


SECTION F-F
1/2"=1'-0"

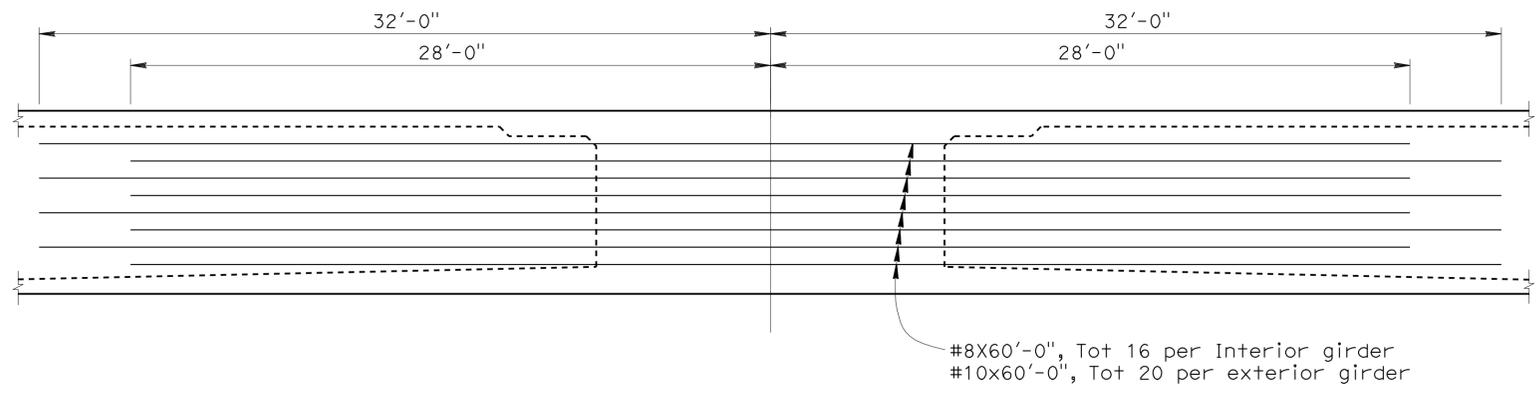
NOTES:
 * Reinforcement may be adjusted to clear p/s ducts.
 ** Clearance to main cap reinforcement.



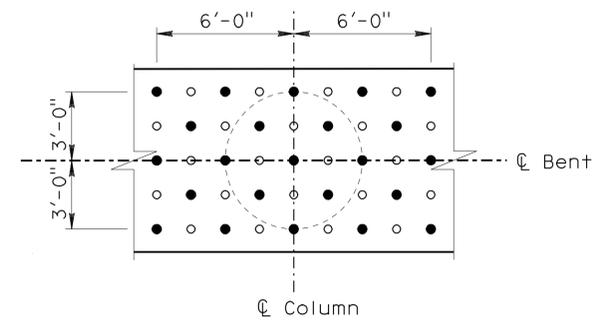
PART PLAN
1/4"=1'-0"



SECTION G-G
1/2"=1'-0"



ADDITIONAL STEM REINFORCEMENT
1/4"=1'-0"



DETAIL F
1/4"=1'-0"

LEGEND:
 • #6 2'-6"
 ○ #6 2'-0"

NOTES:
 1. "J" bars to be hooked over top of mat deck reinforcement. Where spacing allows, hooks shall be placed directly over the intersection of the longitudinal and transverse reinforcing bars
 2. Adjust position of "J" bars as needed to avoid prestress tendons, column cages, and primary girder reinforcement
 3. All tails on 135° seismic hooks shall be equal to 10 bar diameters long
 4. Place reinforcement parallel to center line of Bent.

| | | |
|------------|---------------------------|---------------------|
| DESIGN | BY Krishnakant Andurlekar | CHECKED Eric Watson |
| DETAILS | BY Jaime Ramirez | CHECKED Eric Watson |
| QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

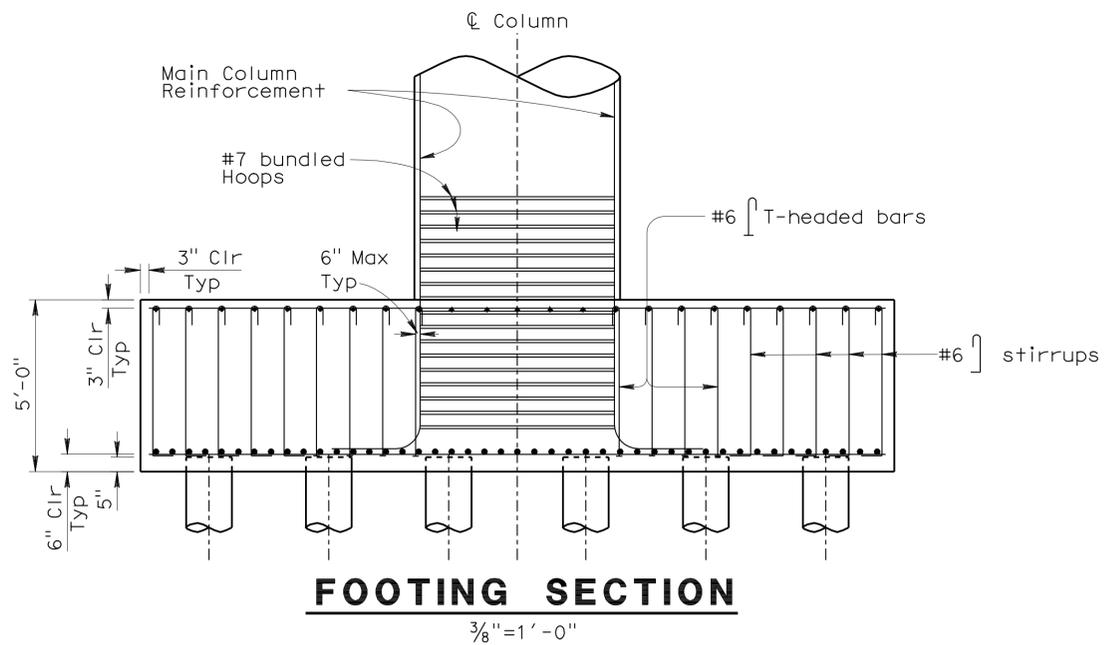
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 11

| | |
|------------|---------|
| BRIDGE NO. | 53-3038 |
| POST MILE | 1.68 |

ALONDRA BLVD OC (REPLACE)
BENT DETAILS

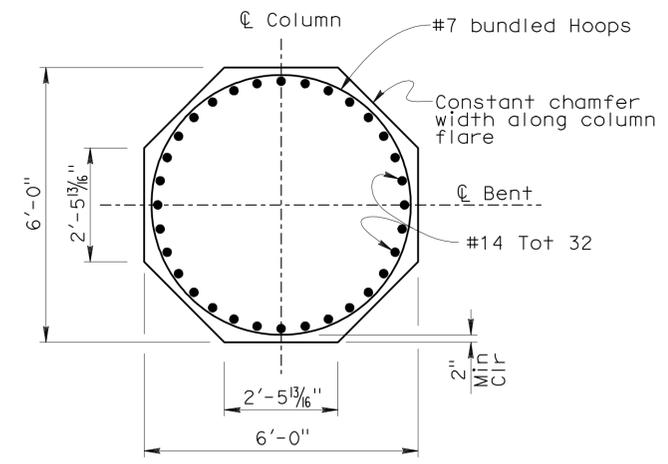
USERNAME => HSTFK DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:43

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| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 436 | 602 |
| <i>Phu Vuong Nguyen</i> 3-2-11 REGISTERED CIVIL ENGINEER DATE | | | PHU V. NGUYEN No. 60358 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA | | |
| 6-27-11 PLANS APPROVAL DATE | | | | | |
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FOOTING SECTION

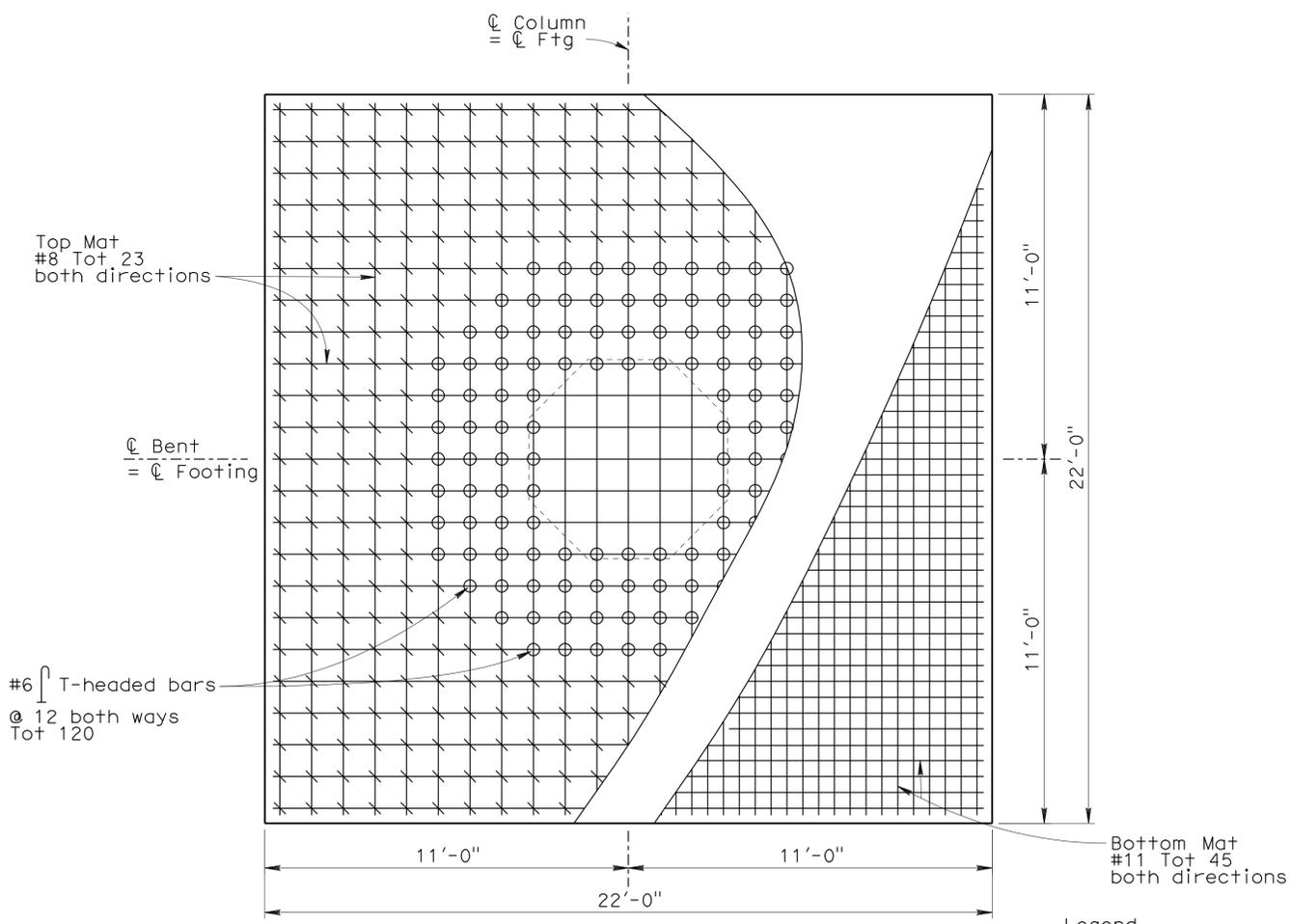
3/8" = 1'-0"



SECTION H-H

1/2" = 1'-0"

NOTE:
1. Details are symmetrical about C Bent and C Footing.

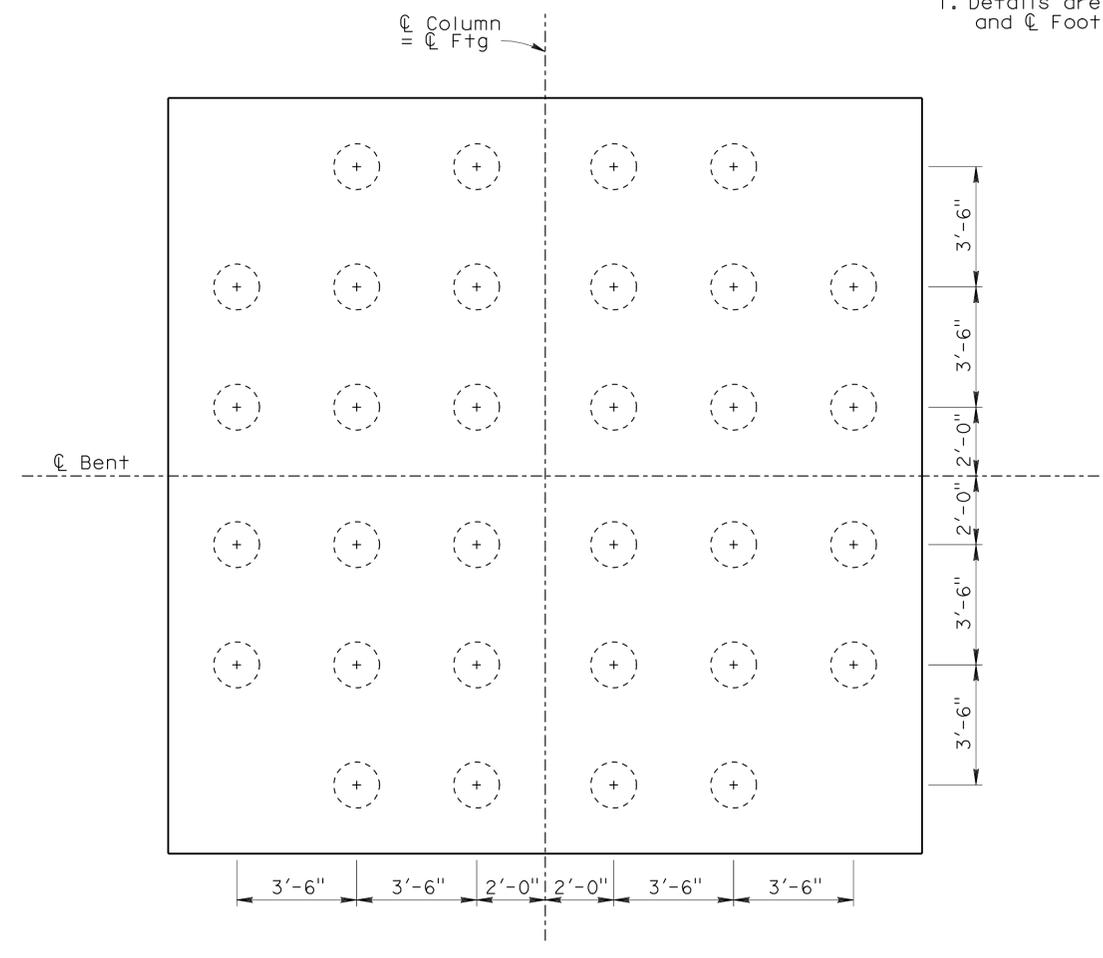


TYPICAL FOOTING PLAN

COLUMN 1, 2, 3 & 4

3/8" = 1'-0"

- Legend
- O - Indicates T-headed bars
 - \ - Indicates 180° hook stirrups



TYPICAL PILE LAYOUT

COLUMNS FOOTING 1, 2, 3 & 4

3/8" = 1'-0"

| | | |
|------------|---------------------------|--------------------------------|
| DESIGN | BY Krishnakant Andurlekar | CHECKED Eric Watson |
| DETAILS | BY Jaime Ramirez | CHECKED Krishnakant Andurlekar |
| QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

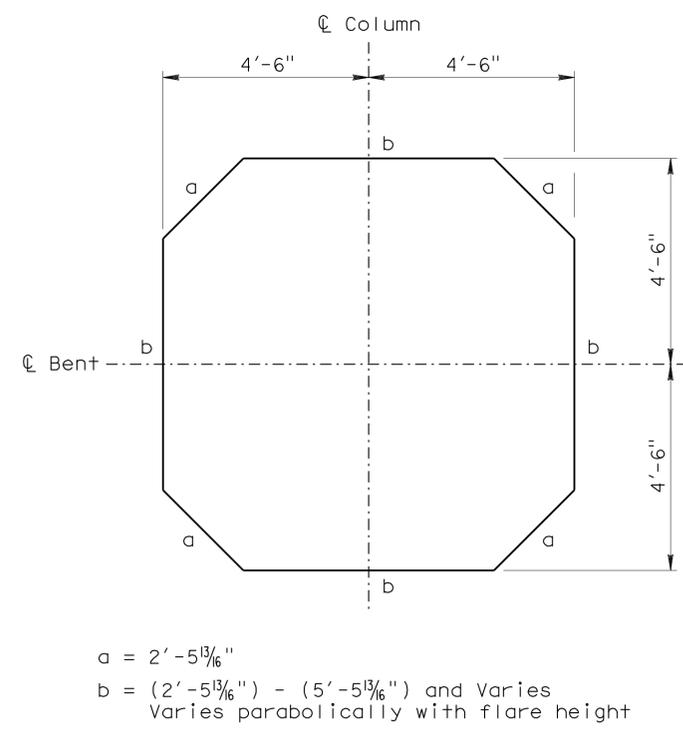
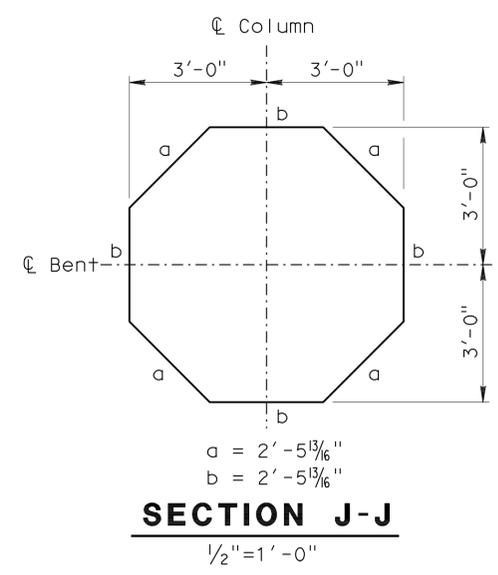
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH **11**

| | |
|------------|---------|
| BRIDGE NO. | 53-3038 |
| POST MILE | 1.68 |

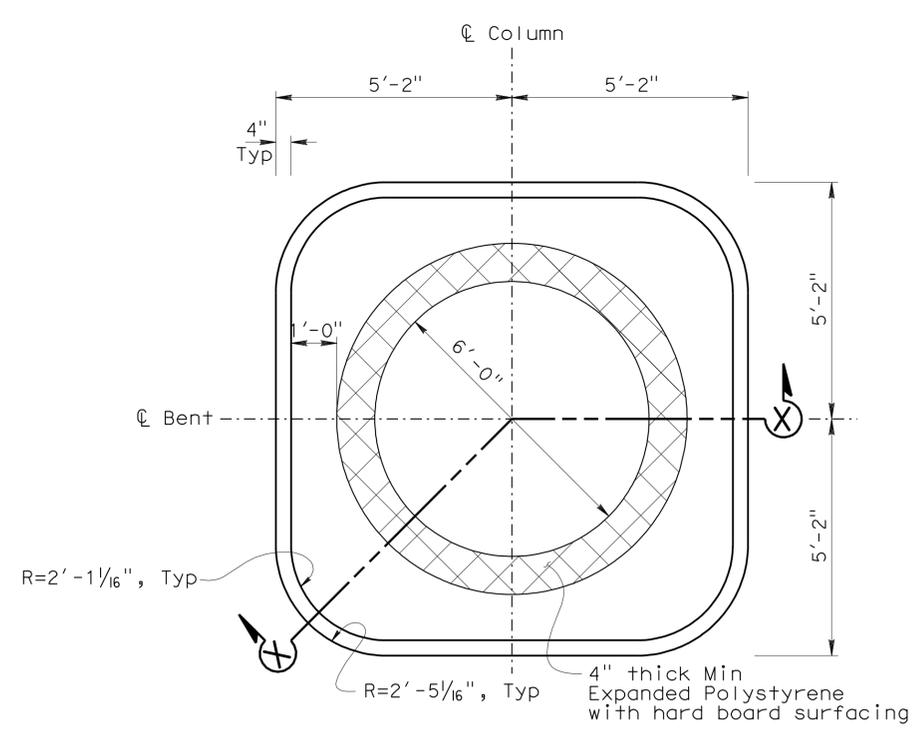
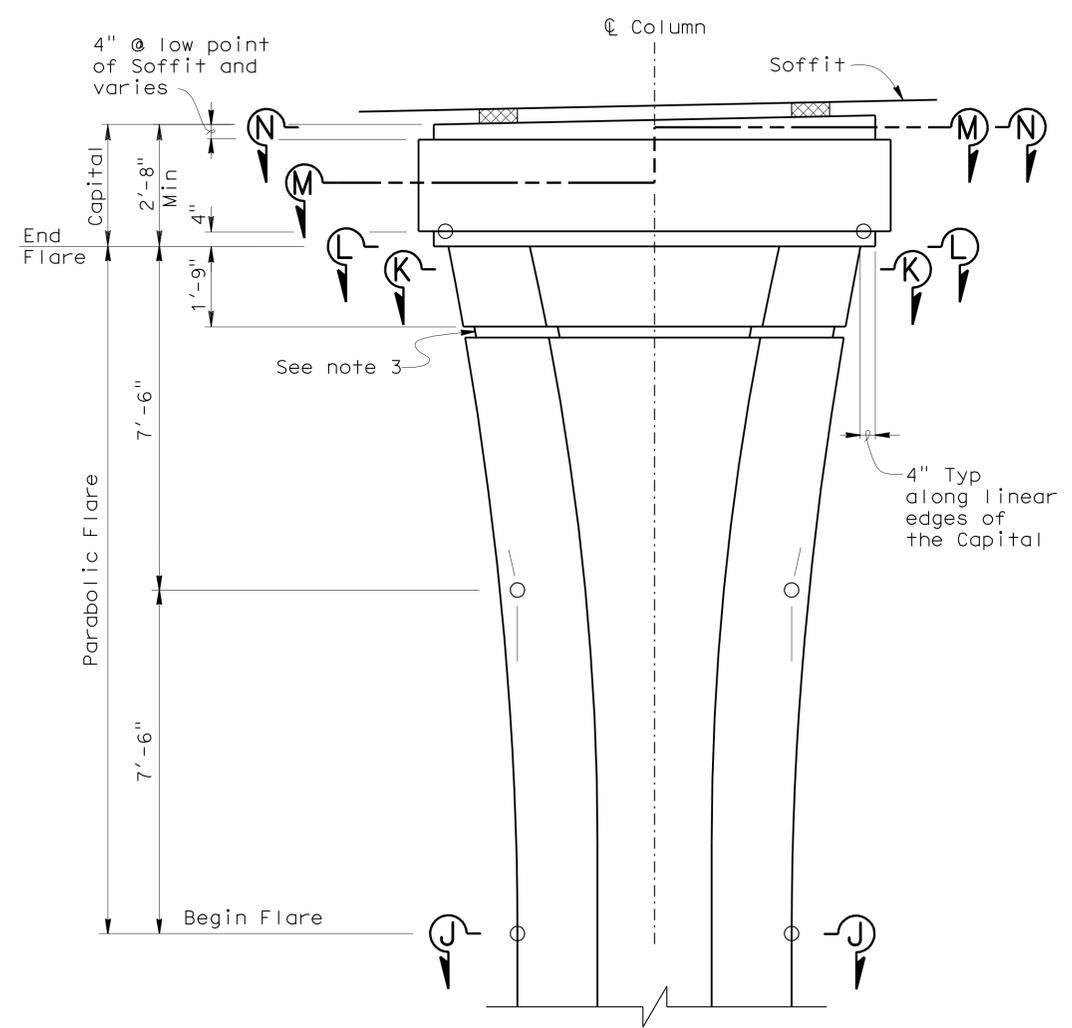
ALONDRA BLVD OC (REPLACE)
BENT FOOTING DETAILS

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Phu Vuong Nguyen 3-2-11
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 6-27-11
 PLANS APPROVAL DATE
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
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- NOTES:**
1. a = Column side lengths.
 2. b = Variable side lengths.
 3. 3" x 3" deep notch around Column perimeter.
 4. Column geometry and reinforcement shall be symmetrical about CL Column and CL Bent.
 5. For column reinforcement and details not shown, see "BENT DETAILS" sheets.
 6. For 'Section K-K', 'Section M-M', and 'Section X-X', see "COLUMN DETAILS No. 2" sheet.



| | | | | | | | | | | | |
|----------------------------------------------------------|------------|---------------------------|--------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------|---------------------------|--|--|--|----------------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN | BY Krishnakant Andurlekar | CHECKED Eric Watson | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | ALONDRA BLVD OC (REPLACE) | | | | |
| | DETAILS | BY Jaime Ramirez | CHECKED Krishnakant Andurlekar | | | 53-3038 | COLUMN DETAILS No. 1 | | | | |
| | QUANTITIES | BY Bill Kemp | CHECKED Krishnakant Andurlekar | | | POST MILE 1.68 | | | | | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | 0 1 2 3 | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | | | | SHEET 20 OF 49 |

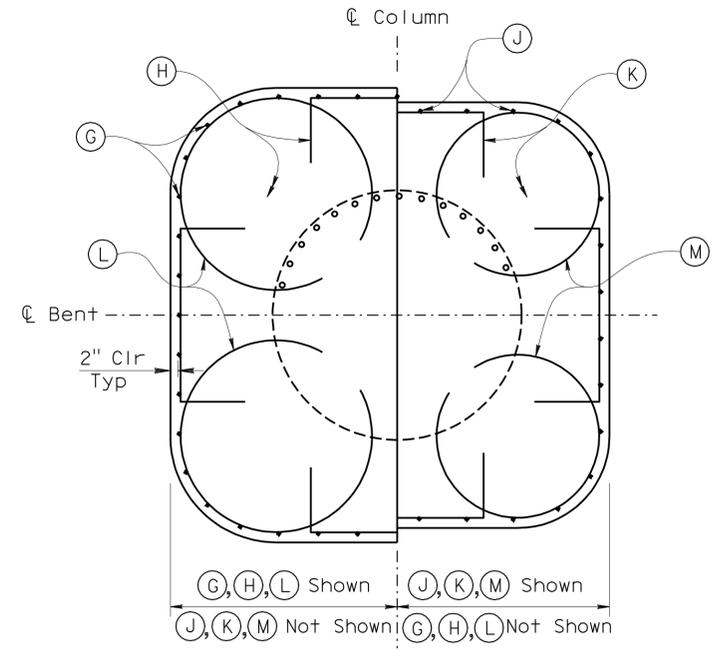
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 438 | 602 |

Phu Vuong Nguyen 3-2-11
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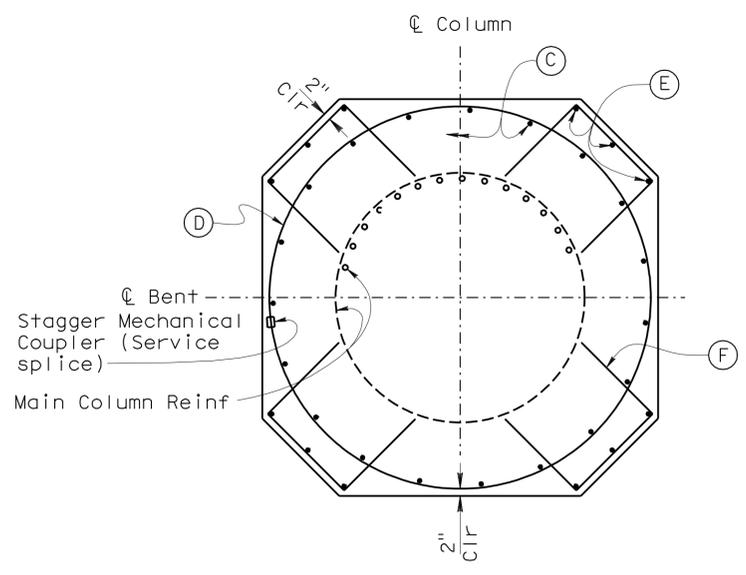
6-27-11
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STATE OF CALIFORNIA

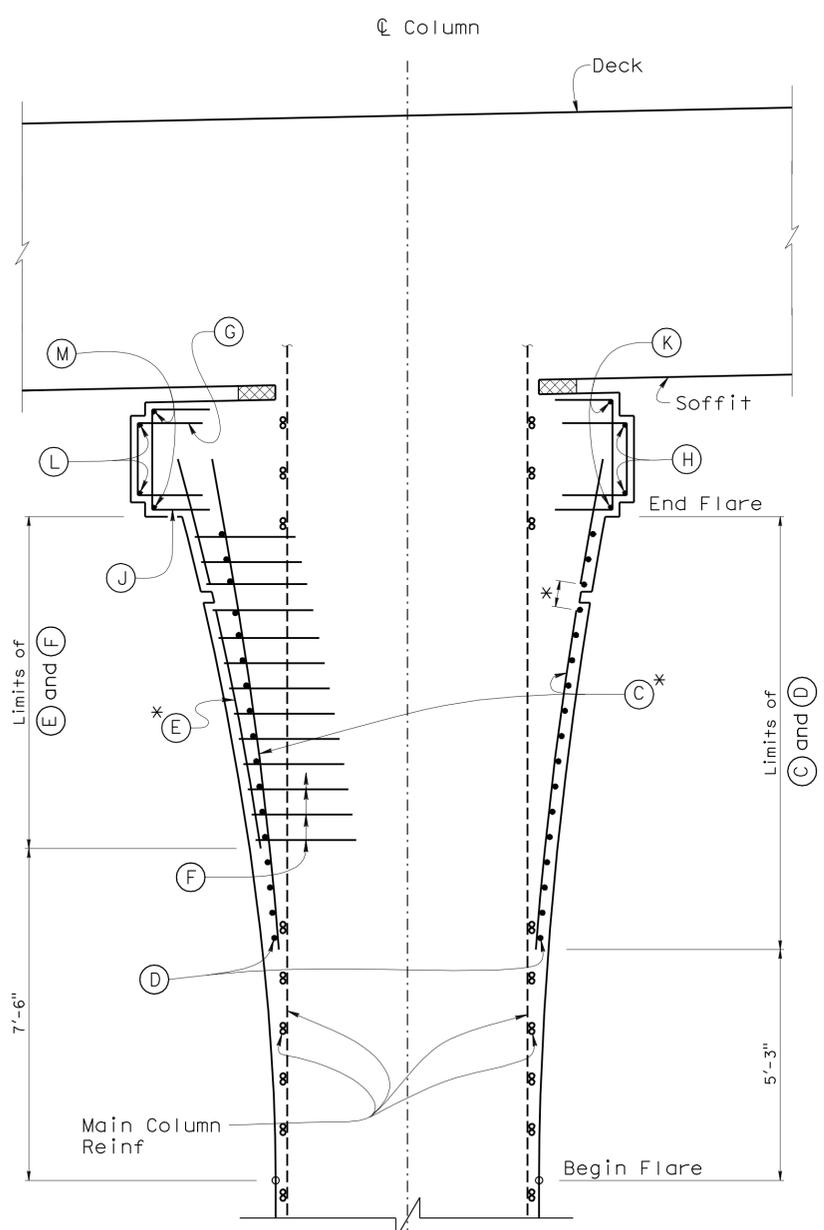
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SECTION M-M
 $\frac{1}{2}'' = 1' - 0''$



SECTION K-K
 $\frac{1}{2}'' = 1' - 0''$



SECTION X-X
 $\frac{1}{2}'' = 1' - 0''$

LEGEND:

- ⊙ = #6 $\frac{1'-0''}{1'-0''}$ Tot 19
- ⊙ = #8 Hoops @ 6", stagger mechanical couplers (Service splice)
- ⊙ = #6 $\frac{3'-0''}{2'-3''}$ Tot 12
- ⊙ = #6 $\frac{2'-3''}{2'-3''}$ @ 7
- ⊙ = #4 $\frac{1'-6''}{1'-6''}$ Tot 40
- ⊙ = #4 $\frac{4'-0''}{1'-6''}$ Tot 8
- ⊙ = #4 $\frac{1'-4''}{1'-4''}$ Tot 32
- ⊙ = #4 $\frac{4'-0''}{1'-6''}$ Tot 8
- ⊙ = #4 $\frac{L=12'-6''}{L=11'-0''}$ Tot 8
- ⊙ = #4 $\frac{L=11'-0''}{L=11'-0''}$ Tot 8

* At notches, where 2" Clr is compromised, remove a 7" length of reinforcement

NOTE:

1. For Section cuts K-K, M-M, X-X, see "COLUMN DETAILS No. 1" sheet.

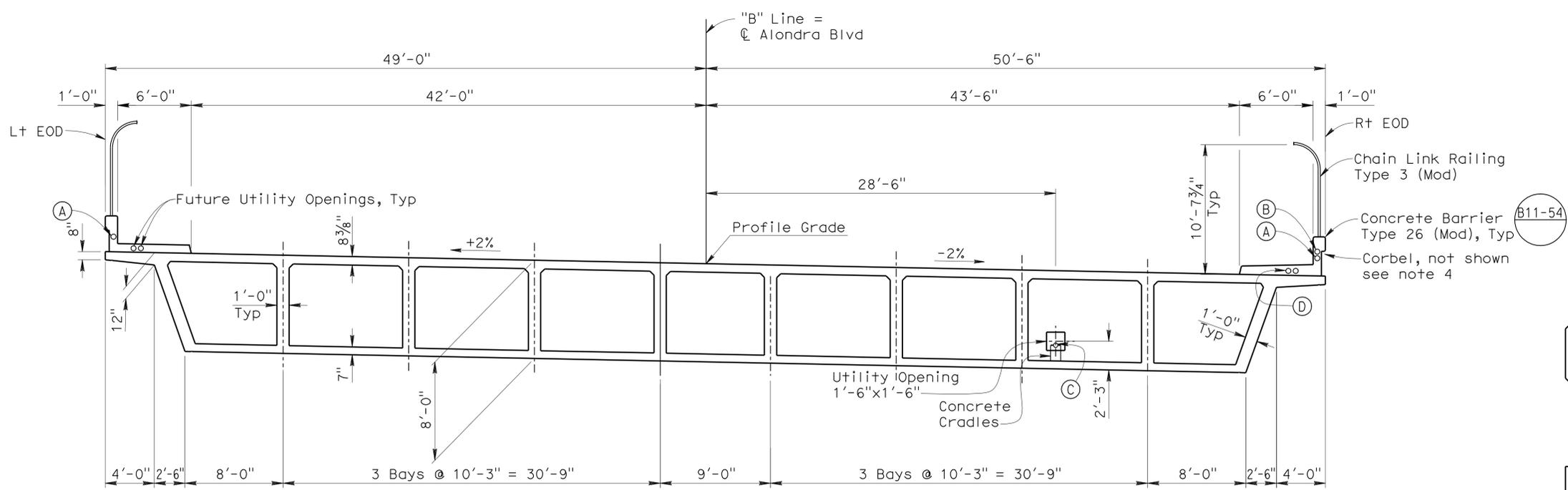
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|----------------------------------------------------------|------------|---------------------------|--------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------|-----------------------|----------------|---------------------------------------------------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN | BY Krishnakant Andurlekar | CHECKED Eric Watson | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | 53-3038 | ALONDRA BLVD OC (REPLACE) COLUMN DETAILS No. 2 |
| | DETAILS | BY Jaime Ramirez | CHECKED Krishnakant Andurlekar | | | POST MILE | 1.68 | |
| | QUANTITIES | BY Bill Kemp | CHECKED Krishnakant Andurlekar | | | CU 07227 EA 215911 | REVISION DATES | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | 0 1 2 3 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | SHEET 21 | OF 49 | |

| | | | | | |
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| 07 | LA | 5 | 1.2/2.1 | 439 | 602 |

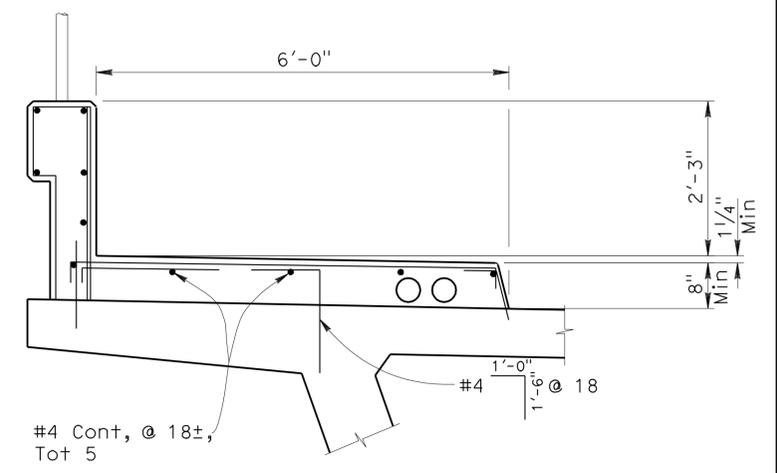
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3-2-11
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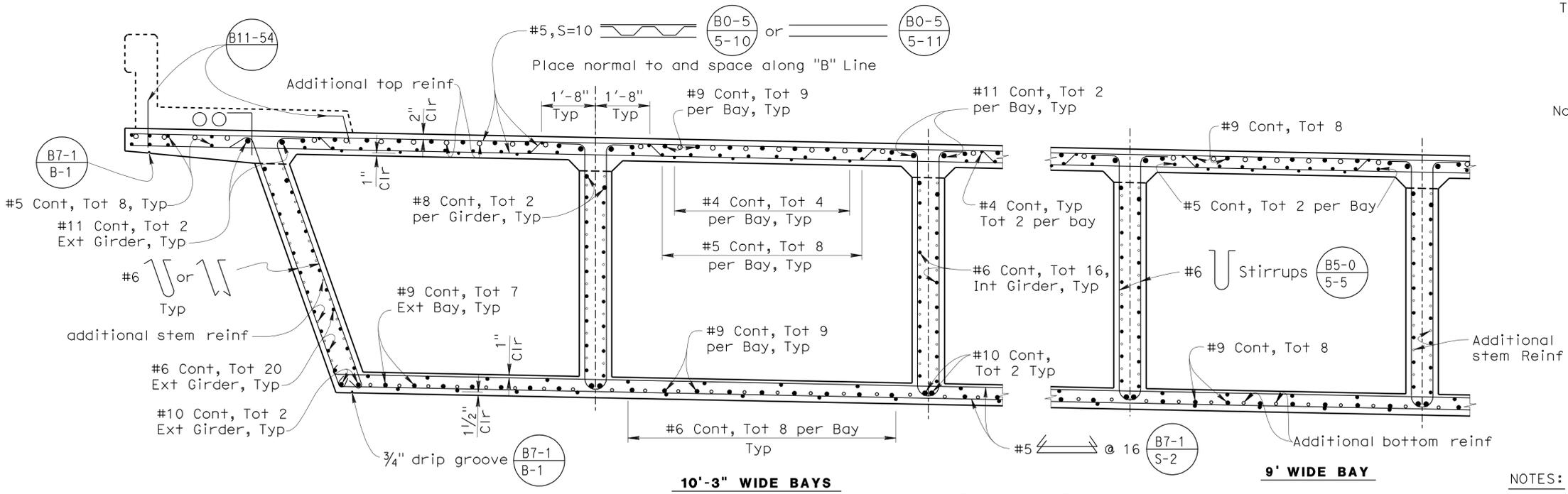


TYPICAL SECTION
3/16"=1'-0"

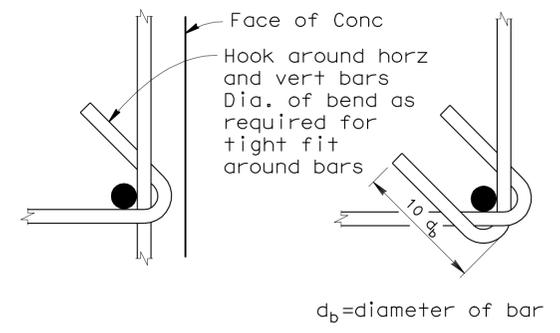


BARRIER TYPE 26 (MOD)
3/4"=1'-0"

Note: For Details and Reinf not shown see B11-54



PART TYPICAL SECTION
1/2"=1'-0"



TIE BAR DETAIL
No Scale

- NOTES:
- o - Indicates additional reinforcement.
 - 1. For additional top and bottom girder Reinf, see "ADDITIONAL GIRDER REINFORCEMENT" sheet.
 - 2. For stirrup spacing, see "GIRDER LAYOUT No. 2" sheet.
 - 3. For additional stem Reinf, see "BENT DETAILS No. 1" sheet.
 - 4. For Corbel details, see "CORBEL DETAILS No. 1" sheet.
 - 5. For Utilities (A)(B)(C)(D), see "GENERAL PLAN No. 2" sheet.

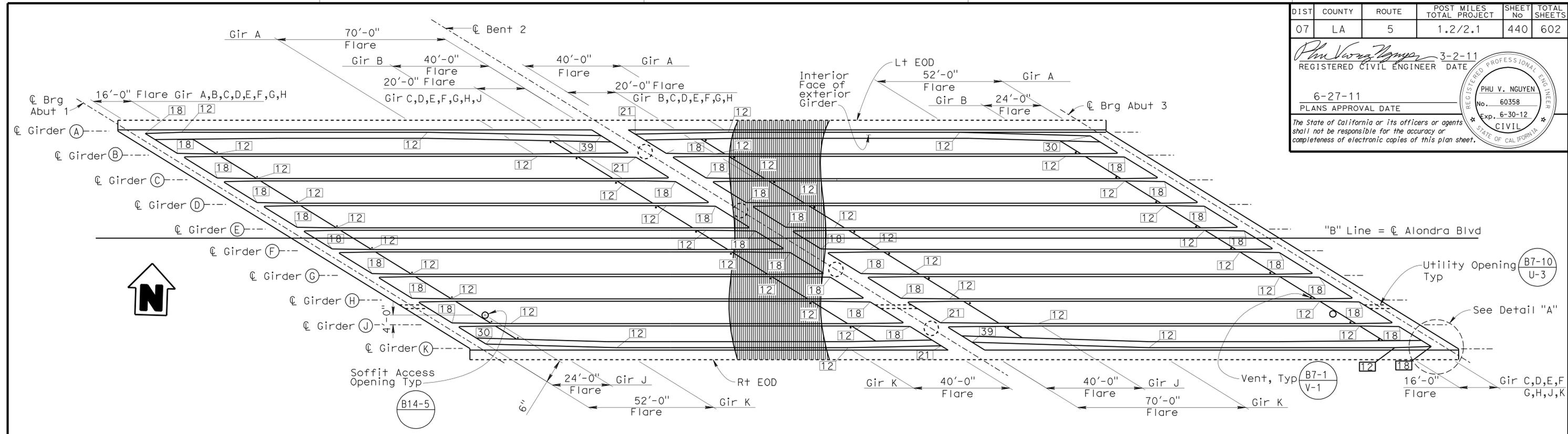
| | | | | | |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------|
| ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SHOWN. STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN BY Krishnakant Andurlekar CHECKED Eric Watson | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. 53-3038 POST MILE 1.68 | ALONDRA BLVD OC (REPLACE) TYPICAL SECTION |
| | DETAILS BY Jaime Ramirez CHECKED Eric Watson | | | QUANTITIES BY Krishnakant Andurlekar CHECKED Bill Kemp | |

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 FILE => 53-3038-k-ts01.dgn

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| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
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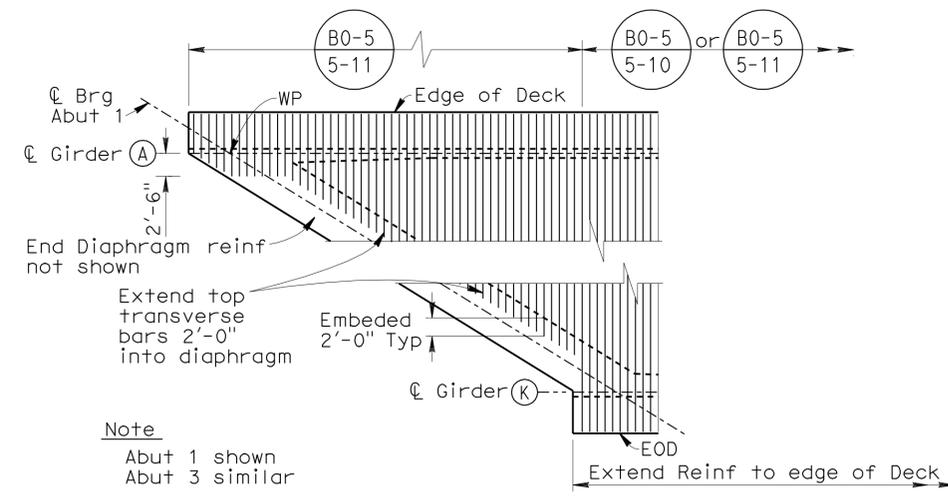
PHU V. NGUYEN
 REGISTERED CIVIL ENGINEER DATE 3-2-11
 No. 60358
 Exp. 6-30-12
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6-27-11
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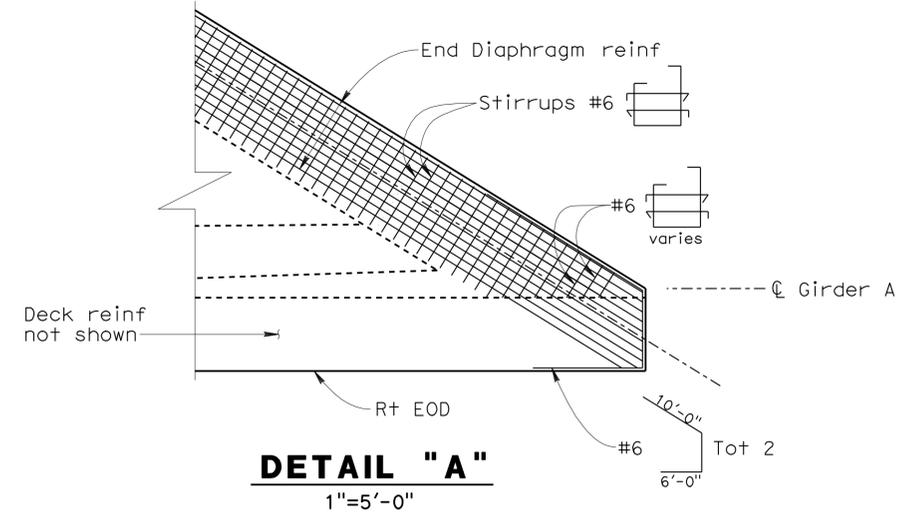


PLAN VIEW
1"=20'-0"

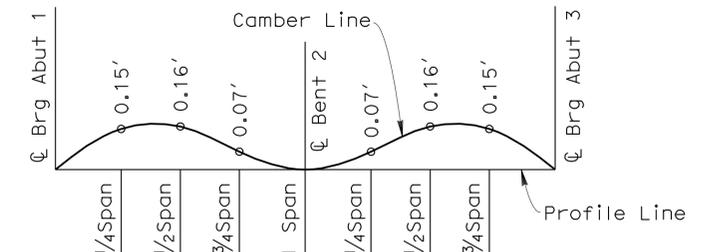
XX Denotes Girder Stem width in inches
Gir - Girder



PART PLAN
1"=5'-0"



DETAIL "A"
1"=5'-0"



Does not include allowance for falsework settlement

CAMBER DIAGRAM
No Scale

| | | | | | | | | | |
|----------------------------------------------------------|--------------------------------------------|---------------------------|---------------------|-----------------------------------------------------|--------------------------------------------------------------------------|-----------------------|-------------------------------------------------|----------------|----------------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN | BY Krishnakant Andurlekar | CHECKED Eric Watson | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | ALONDRA BLVD OC (REPLACE) | | |
| | DETAILS | BY Jaime Ramirez | CHECKED Eric Watson | | | 53-3038 | GIRDER LAYOUT No. 1 | | |
| | QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp | | | 1.68 | | | |
| | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | 0 | 1 | 2 | 3 | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET 23 OF 49 |

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|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 441 | 602 |

PRESTRESSING NOTES

270 KSI Low Relaxation Strand:
 P_{jack} = 32010 kips
 Anchor Set = $\frac{3}{8}$ in
 Total Number of Girders = 10
 u = Friction coefficient = 0.15
 k = Friction wobble coefficient = 0.0002/ft

Distribution of prestress force (Pjack) between girders shall not exceed the ratio of 3:2.
 Maximum final force variation between girders shall not exceed 725 kips.
 Concrete: f'_c = 5000 psi @ 28 days
 f'_{ci} = 3600 psi @ time of stressing

Contractor shall submit elongation calculations based on initial stress at $\lambda = 0.921$ times jacking stress.

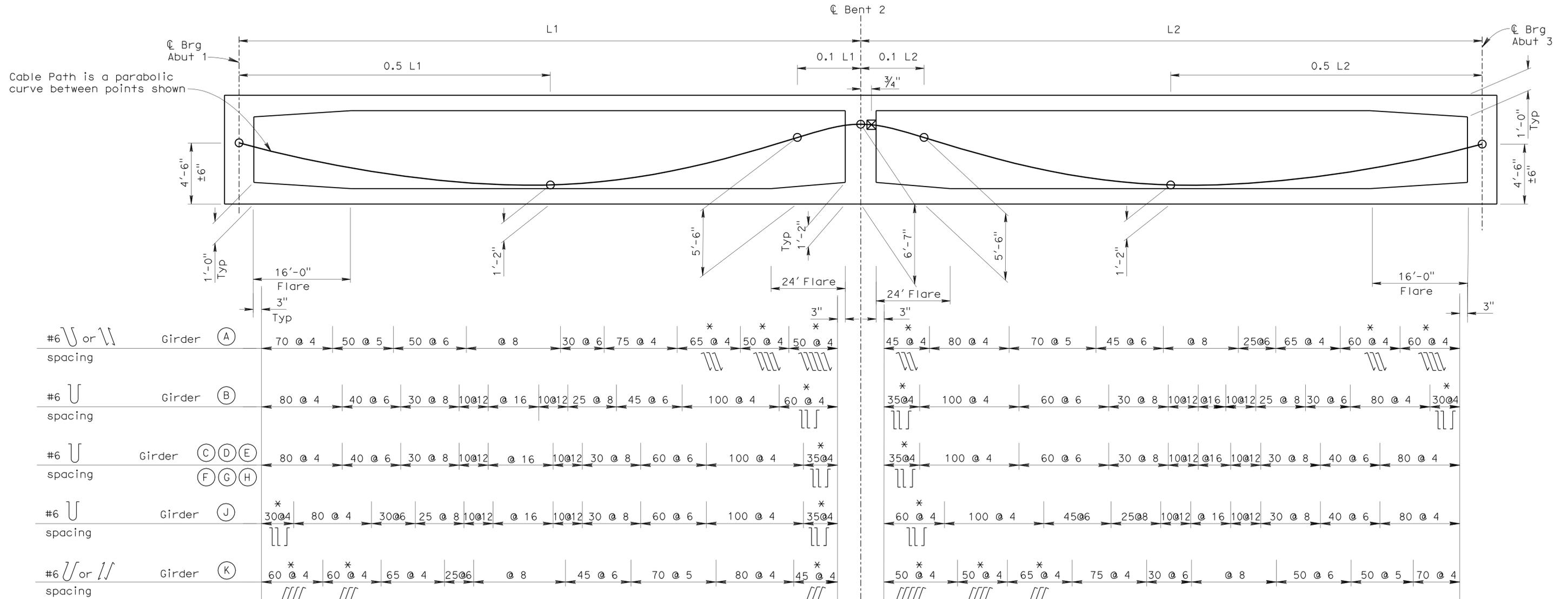
Two end stressing shall be performed

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE

6-27-11
 PLANS APPROVAL DATE

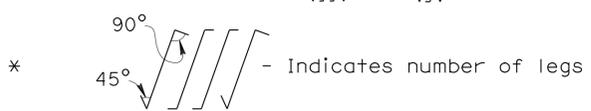
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TYPICAL LONGITUDINAL SECTION (B0-5) (B7-1) (B8-5)
 No Scale

- LEGEND**
- "L" = Girder's length measured along ϕ girders
 - \boxtimes - Indicates theoretical point of no movement for two end stressing at ϕ of Bridge
 - O - Indicates high, low or inflection points



| | | | | | | |
|------------|---------------------------|---------------------|-----------------------------------------------------|---------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------|
| DESIGN | BY Krishnakant Andurlekar | CHECKED Eric Watson | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. 53-3038 | ALONDRA BLVD OC (REPLACE) GIRDER LAYOUT No. 2 |
| | DETAILS | BY Jaime Ramirez | | | CHECKED Eric Watson | |
| QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET 24 OF 49 |

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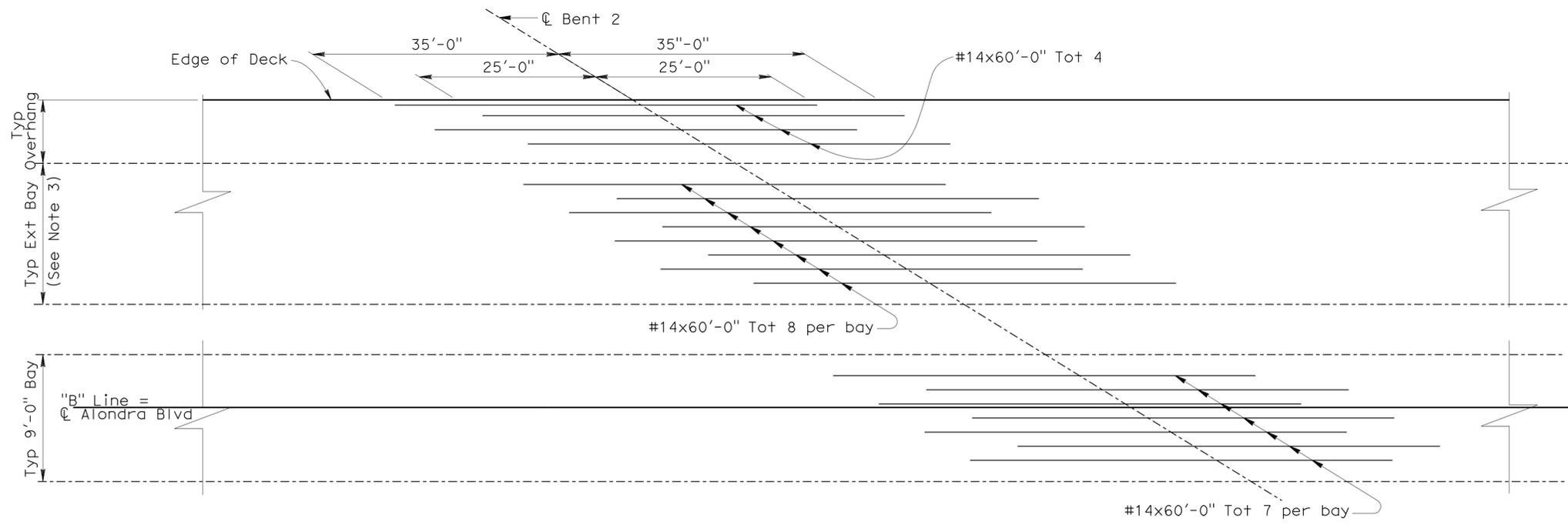
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 442 | 602 |

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REGISTERED CIVIL ENGINEER DATE

6-27-11
PLANS APPROVAL DATE

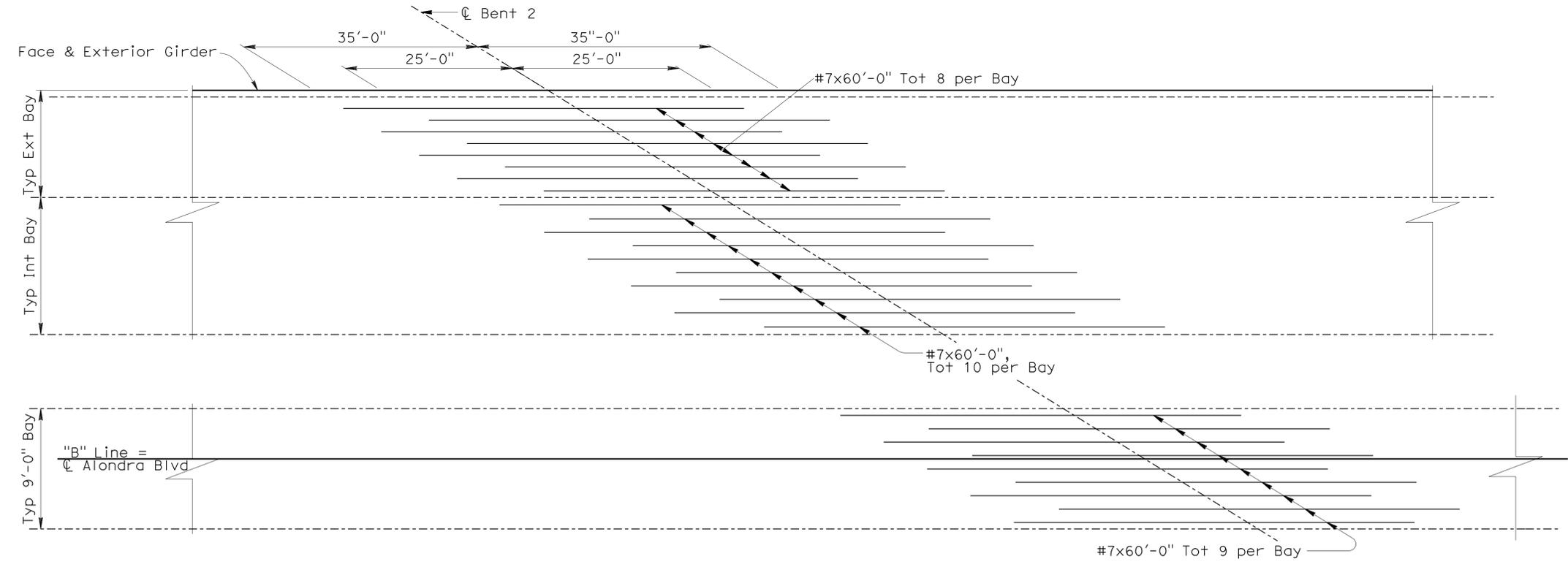
PHU V. NGUYEN
No. 60358
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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TOP GIRDER REINFORCEMENT

1"=5'-0" vert
1"=10'-0" horz



BOTTOM GIRDER REINFORCEMENT

1"=5'-0" vert
1"=10'-0" horz

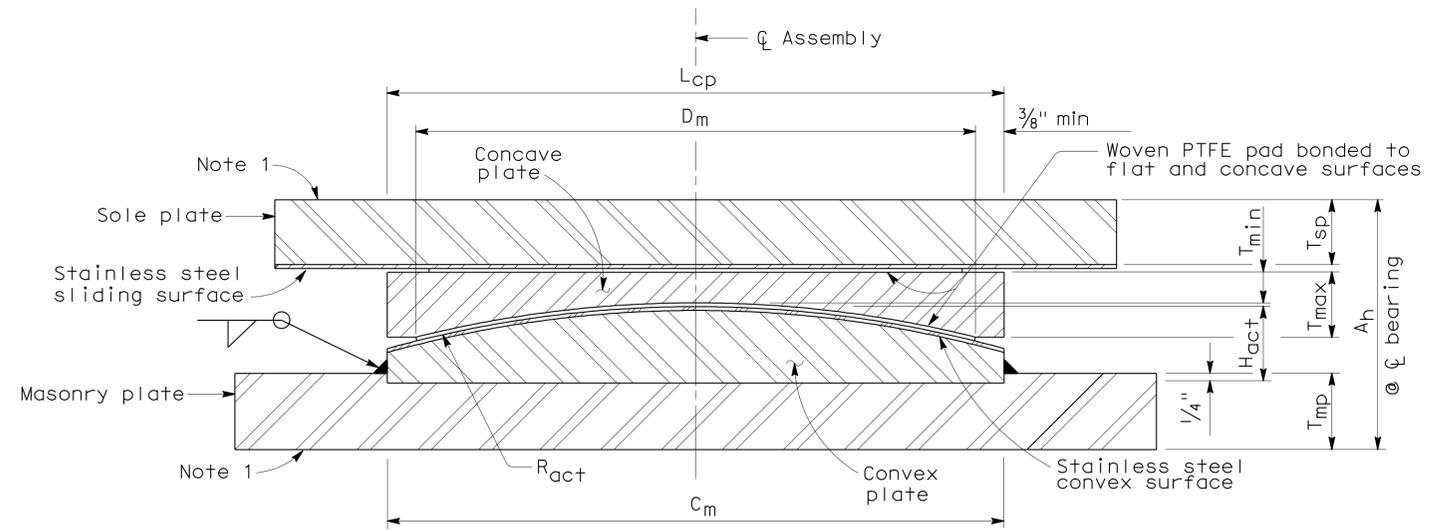
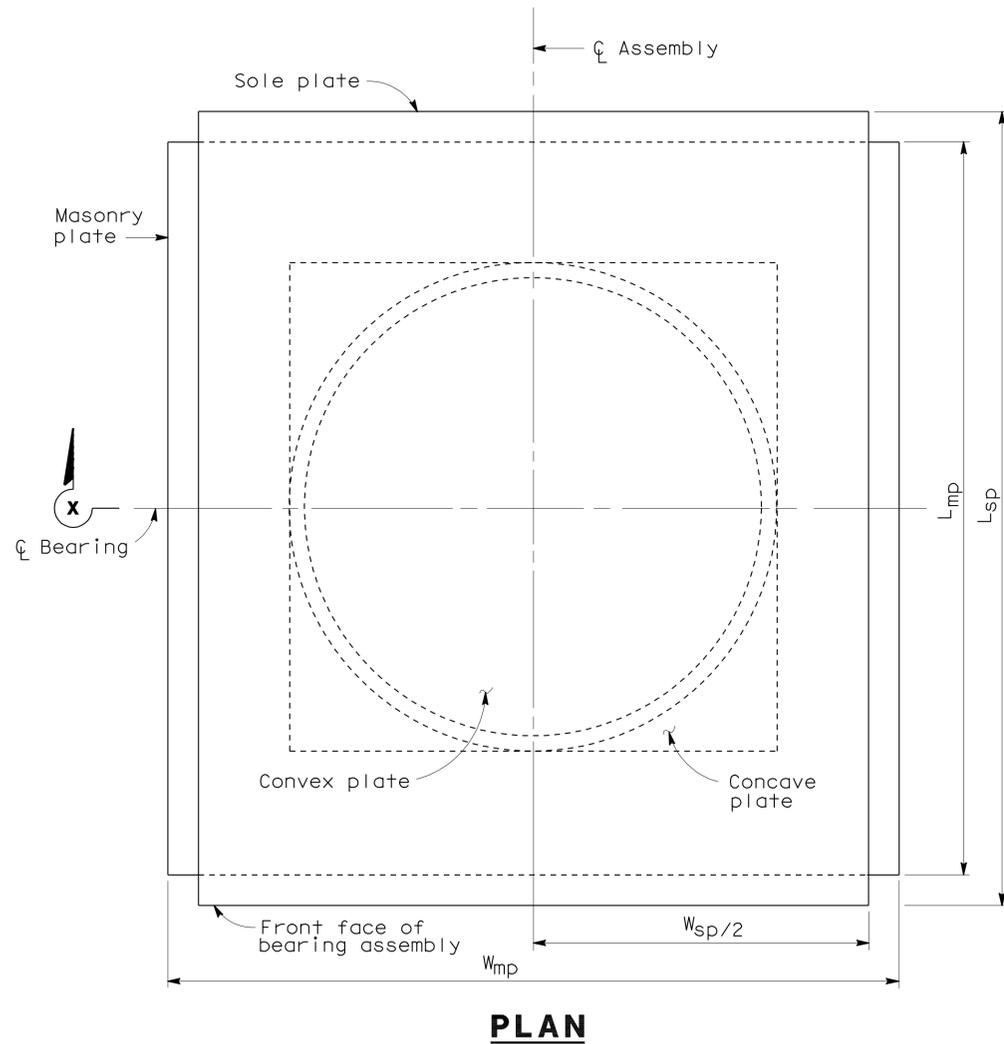
- NOTES:
- All bars shall be evenly spaced within limits shown.
 - No Splices allowed.
 - Typical Exterior Bay is shown. Typical Interior Bay is similar.

| | | | | | | | | | | |
|----------------------------------------------------------|------------|-----------------------|---------------|-------------|-----------------------------------------------------|---------------------------------------------------------------------------------|-----------------------|-----------------------|----------------------------------------------------------------------------|----------------|
| DESIGN | BY | Krishnakant Andulekar | CHECKED | Eric Watson | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | 53-3038 | ALONDRA BLVD OC (REPLACE) ADDITIONAL GIRDER REINFORCEMENT | |
| | DETAILS | BY | Jaime Ramirez | CHECKED | | | Eric Watson | POST MILE | | 1.68 |
| | QUANTITIES | BY | Bill Kemp | CHECKED | | | Krishnakant Andulekar | CU 07227 EA 215911 | | REVISION DATES |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | | | | | | | | | | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | | | | | | | |
| 0 1 2 3 | | | | | | | | | | |
| FILE => 53-3038-o-gir_rf01.dgn | | | | | | | | | | |
| DISREGARD PRINTS BEARING EARLIER REVISION DATES | | | | | | | | | | |
| SHEET 25 OF 49 | | | | | | | | | | |

USERNAME => HSTFK DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:44

EXPANSION BEARING TABLE

| LOCATION | MAXIMUM VERTICAL LOAD (kip) | MINIMUM DEAD LOAD (kip) | DESIGN ROTATION (Radians) | CONCAVE PLATE | | | | | | CONVEX PLATE | | MASONRY PLATE | | | SOLE PLATE | | | ASSEMBLY HEIGHT |
|----------------------------------|-----------------------------|-------------------------|---------------------------|-----------------|-----------------------------------|----------------|------------------|-------------------|-------------------|----------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | | | WIDTH / LENGTH | FLAT PTFE AREA (in ²) | DIAMETER | SPHERICAL RADIUS | MINIMUM THICKNESS | MAXIMUM THICKNESS | DIAMETER | MAXIMUM THICKNESS | WIDTH | LENGTH | THICKNESS | WIDTH | LENGTH | THICKNESS | |
| | | | | L _{cp} | A _{PTFE} | D _m | R _{act} | T _{min} | T _{max} | C _m | H _{act} | W _{mp} | L _{mp} | T _{mp} | W _{sp} | L _{sp} | T _{sp} | A _h |
| Abut 1 Girder A, Abut 3 Girder K | 245 | 207 | 0.0349 | 16.125 | 81.00 | 15 | 32.625 | 0.75 | 1.875 | 18.0 | 2.125 | 20.0 | 20.0 | 1.00 | 24 | 24 | 2.00 | 5.875 |
| Abut 3 Girder A, Abut 1 Girder K | 1043 | 883 | 0.0349 | 21.125 | 296.00 | 20 | 36 | 0.75 | 2.5 | 22.5 | 2.625 | 25.125 | 25.125 | 1.375 | 28 | 28 | 2.00 | 6.75 |
| All other Bearings | 570 | 482 | 0.0349 | 16.125 | 163.00 | 15 | 32.625 | 0.75 | 1.875 | 18.0 | 2.125 | 20.0 | 20.0 | 1.00 | 24 | 24 | 2.00 | 5.875 |



SECTION X-X

NOTES:

1. Anchorage method not shown.
2. All units in inches unless otherwise noted.
3. All dimensions shown are steel only unless otherwise noted.
4. H_{act} includes stainless steel.
5. A_h includes PTFE, substratum and stainless steel, (Varies).
6. R_{act} is to sliding surface.
7. For Girder location, see " GIRDER LAYOUT No. 1" sheet.

NO SCALE

| STANDARD DRAWING | | | | | |
|------------------|----------|--------------|-----------------|--------------|-------------|
| RELEASE DATE | 4/9/97 | DESIGN BY | ROBERTO LACALLE | CHECKED | ROD SIMMONS |
| FILE NO. | xs9-020e | DETAILS BY | R. YEE | CHECKED | ROD SIMMONS |
| | | SUBMITTED BY | ROBERTO LACALLE | DRAWING DATE | 11/93 |
| | | | | OFFICE CHIEF | |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO.
53-3038
POST MILE
1.68

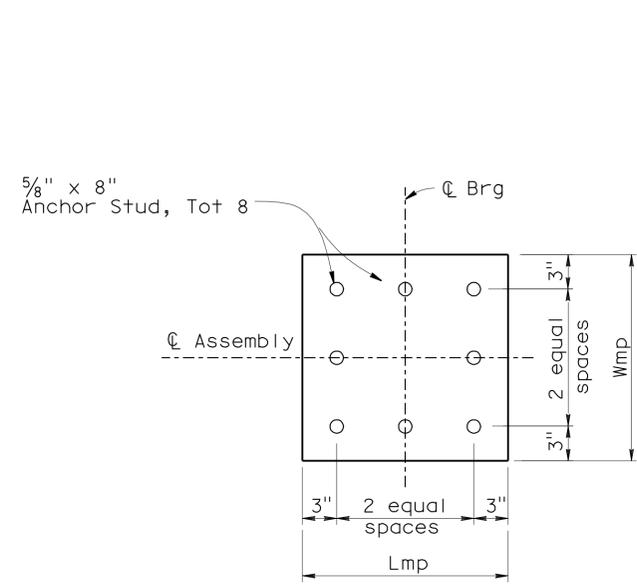
ALONDRA BLVD OC (REPLACE)
PTFE/SPHERICAL EXPANSION BEARING DETAILS No. 1

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 444 | 602 |

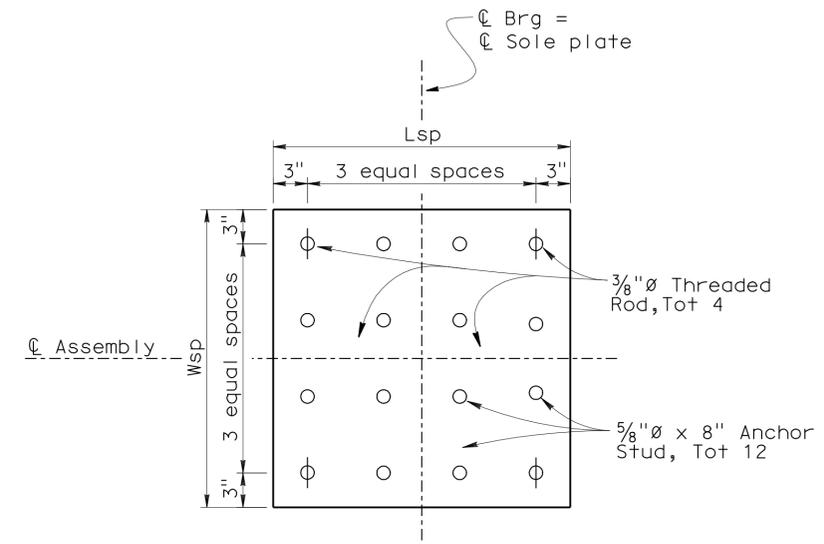
Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE

6-27-11
 PLANS APPROVAL DATE

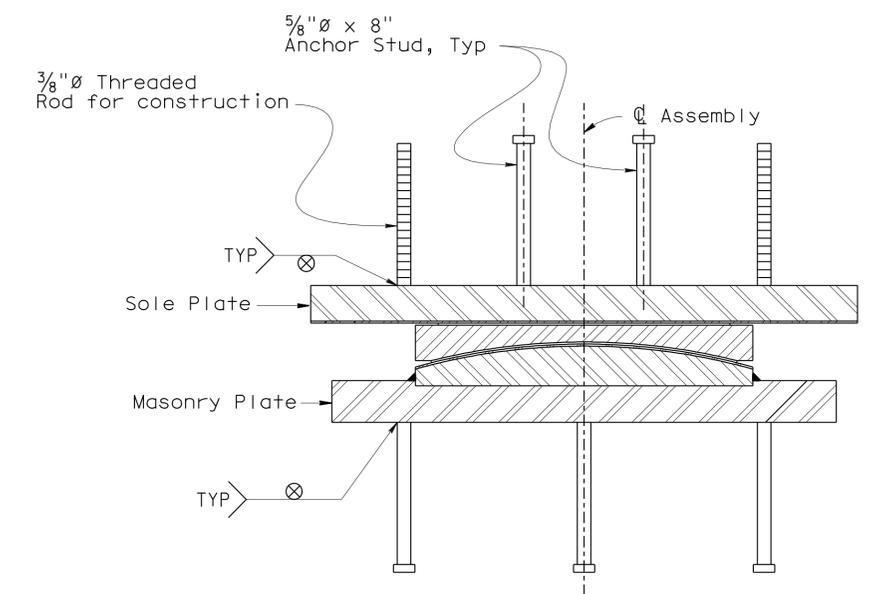
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PLAN-MASONRY PLATE AT ABUTMENT
NO SCALE

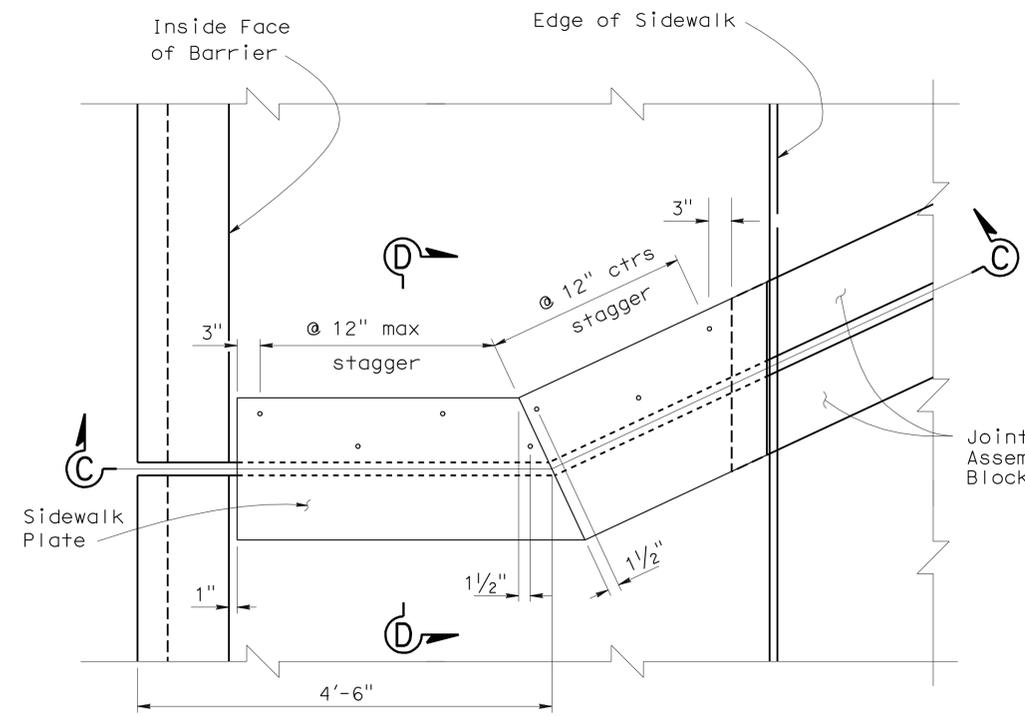


PLAN-SOLE PLATE AT ABUTMENT
NO SCALE

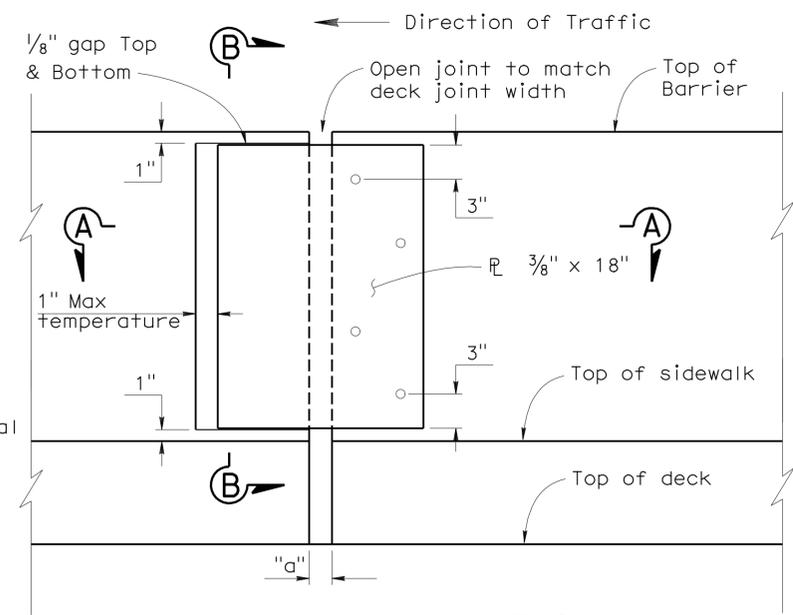


ANCHORAGE DETAIL
NO SCALE

| | | | | | | | | | |
|----------------------------------------------------------|--------------------------------------------|---------------------------|---------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------|----------------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN | BY Bill Kemp | CHECKED Eric Watson | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | 53-3038 | ALONDRA BLVD OVERCROSSING PTFE/ SPHERICAL EXPANSION BEARING DETAILS No.2 | |
| | DETAILS | BY Bruno Jenko | CHECKED Eric Watson | | | POST MILE | 1.68 | | |
| | QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp | | | | | | |
| | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | 0 1 2 3 | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES 9-7-09 9-23-09 9-30-09 10-28-09 3-22-10 8-12-10 3-21-11 | SHEET 27 OF 49 |



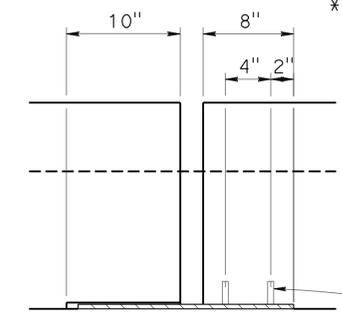
PLAN - SIDEWALK EXPANSION JOINT ARMOR (SKEW > 20°) AT ABUTMENT
 1"=1'-0"
 Barrier Plate Details not shown for clarity



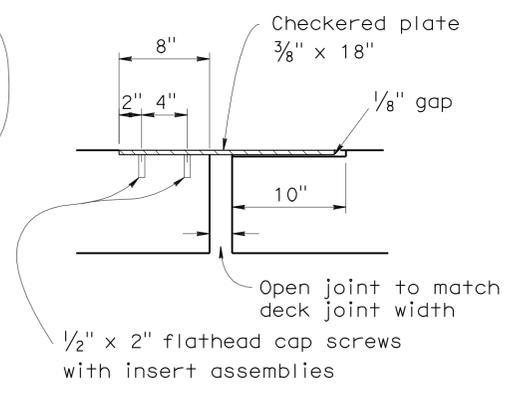
ELEVATION
 1 1/2"=1'-0"
 Sidewalk Plate Details not shown for clarity

| LOCATION | MOVEMENT RATING (M.R.) | "a" DIMENSIONS | | | |
|------------|------------------------|----------------|--------|---------------|--------|
| | | SKEW | WINTER | SPRING & FALL | SUMMER |
| ABUTMENT 1 | 6" * | 58.35° | 1.65" | 1.25" | 0.825" |
| ABUTMENT 3 | 6" * | 58.35° | 1.65" | 1.25" | 0.825" |

* Movement rating is based on a bridge, longitudinal, skewed dimension
 Notes: 1) For details not shown, see Bridge Plans

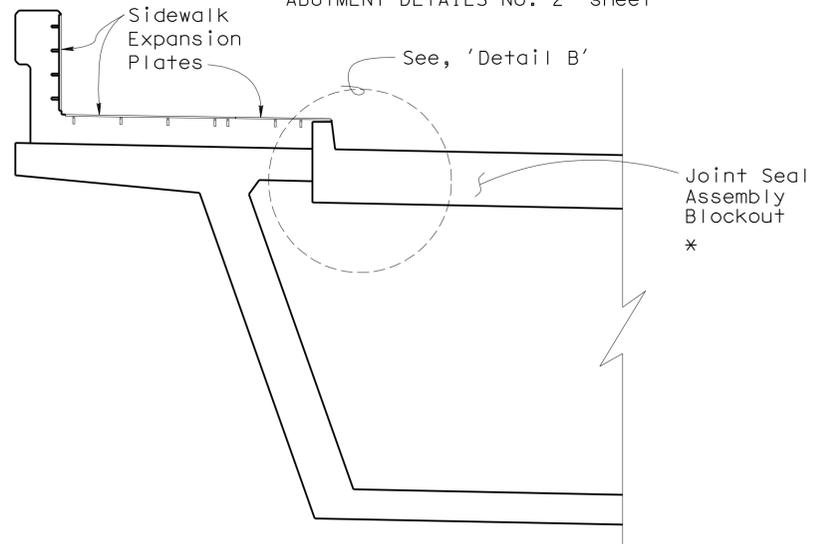


SECTION A-A
 1 1/2"=1'-0"

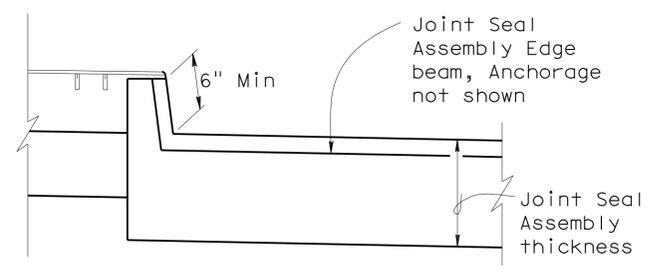


SECTION D-D
 1 1/2"=1'-0"

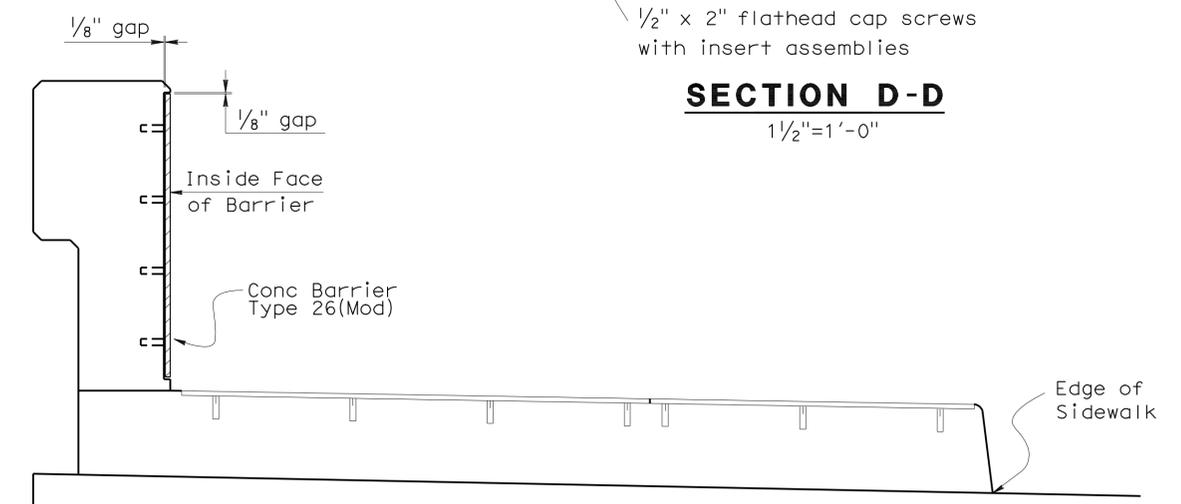
* For blockout Reinforcement at end diaphragm see "End Diaphragm Typical Section" on "ABUTMENT DETAILS No. 2" sheet



VIEW C-C
 1/2" = 1'-0"



DETAIL B
 NO SCALE



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

| | | |
|------------|---------------------------|---------------------|
| DESIGN | BY Bill Kemp | CHECKED Eric Watson |
| DETAILS | BY L. Goldthwait | CHECKED Eric Watson |
| QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp |

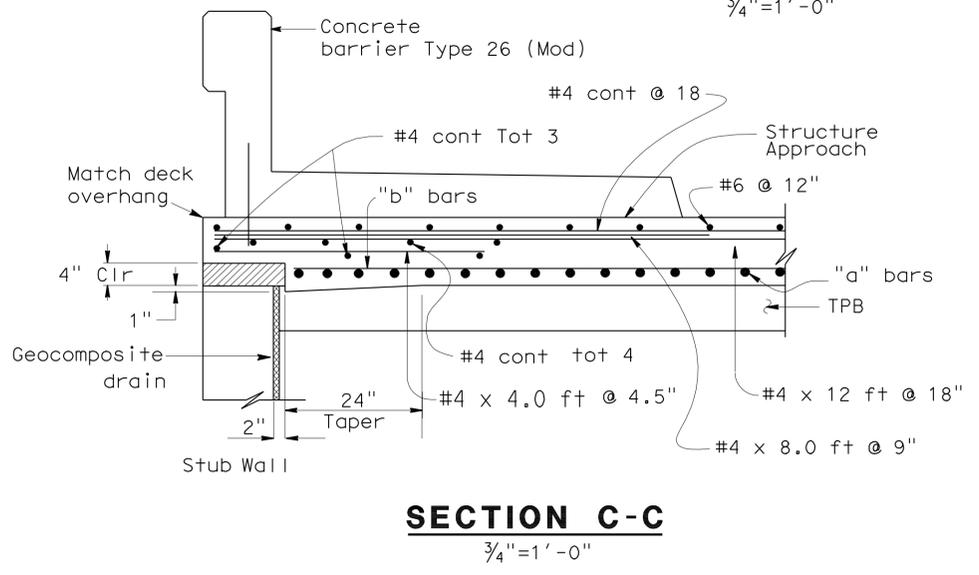
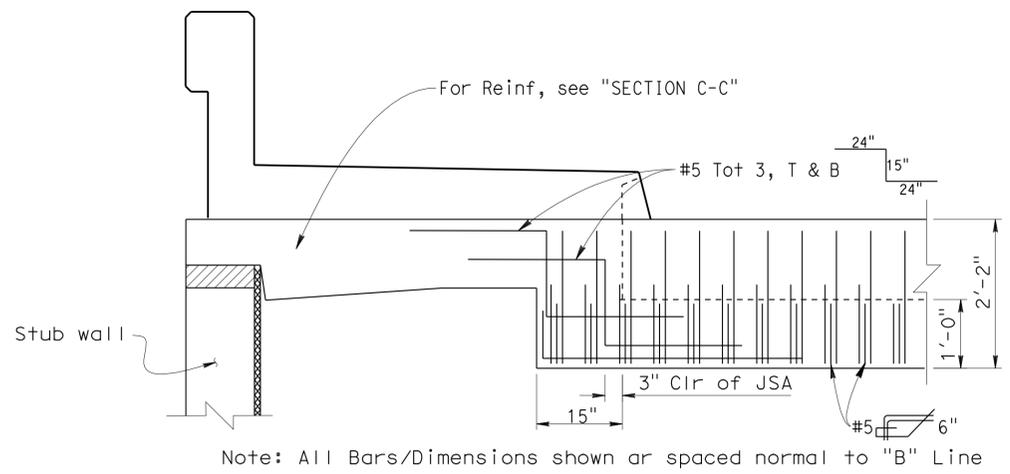
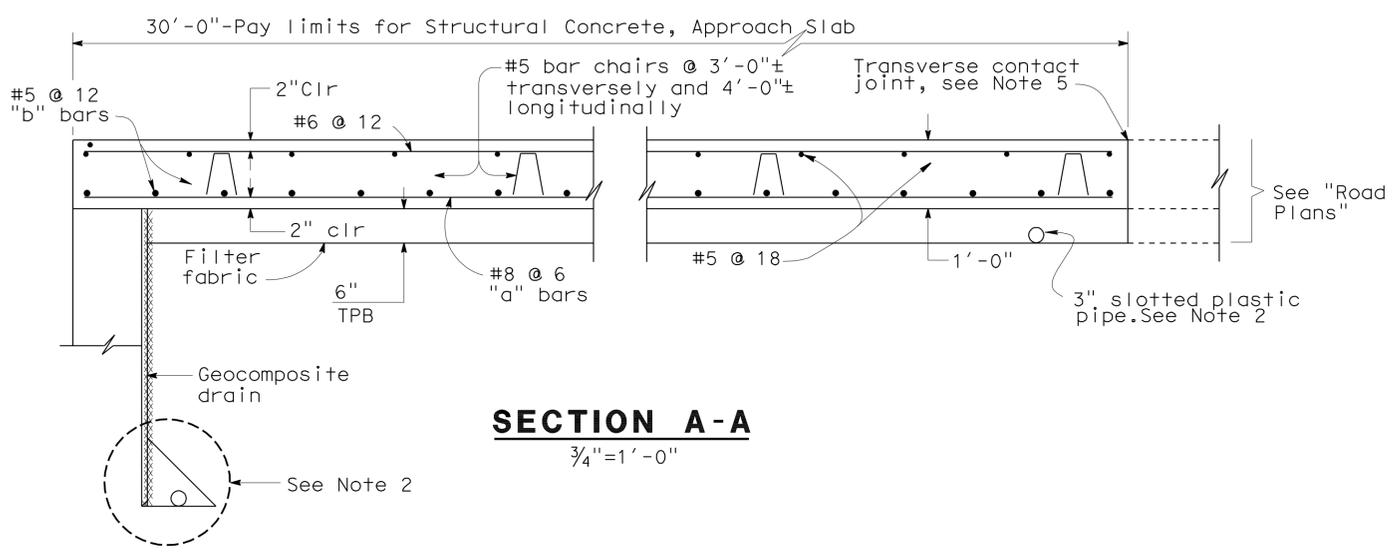
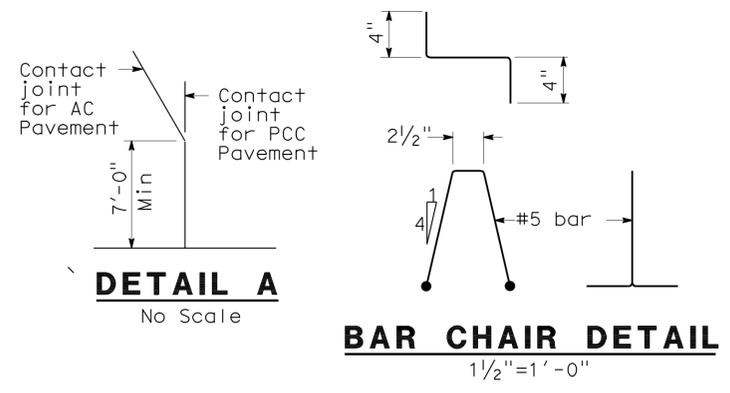
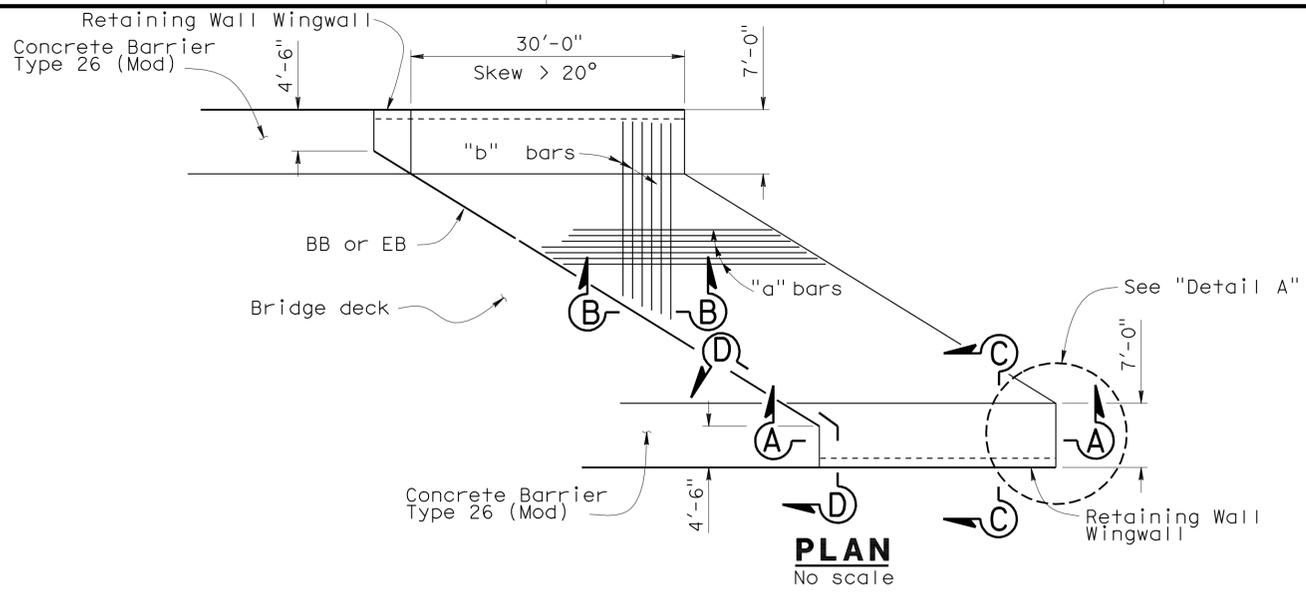
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 11
 BRIDGE NO. 53-3038
 POST MILE 1.68

ALONDRA BLVD OC (REPLACE)
 JOINT SEAL ASSEMBLY
 MOVEMENT RATING GREATER THAN 4"

| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 446 | 602 |

PHU V. NGUYEN
 REGISTERED CIVIL ENGINEER DATE 3-2-11
 PLANS APPROVAL DATE 6-27-11
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



- NOTES:**
- For details not shown, see Structure Plan. and Abutment Sheets.
 - For drainage details, see "Structure Approach Drainage Details" sheet.
 - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
 - Reinf extending into the Joint Seal Blockout may be manipulated as necessary to accommodate installation of the joint seal assembly upon approval of the joint seal shop plans and as directed by the Engineer.
 - At the contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along \perp roadway.

Remove all visible polystyrene.

| | | |
|------------|---------------------------|---------------------|
| DESIGN | BY Bill Kemp | CHECKED Eric Watson |
| DETAILS | BY Bruno Jenko | CHECKED Eric Watson |
| QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

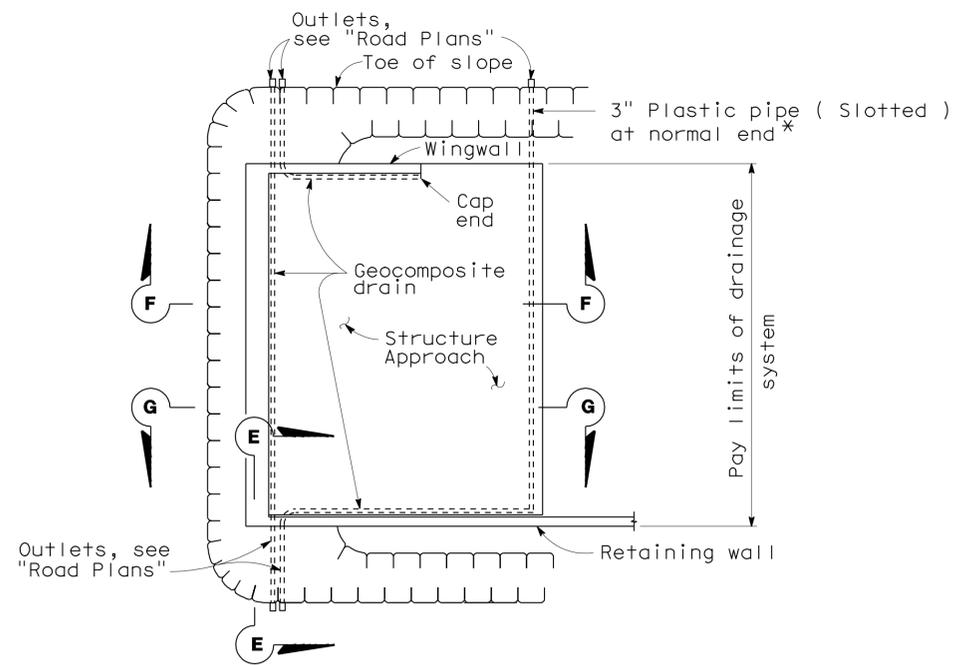
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 11

BRIDGE NO. 53-3038
POST MILE 1.68

ALONDRA BLVD OC (REPLACE)
STRUCTURE APPROACH TYPE N(30S) MOD

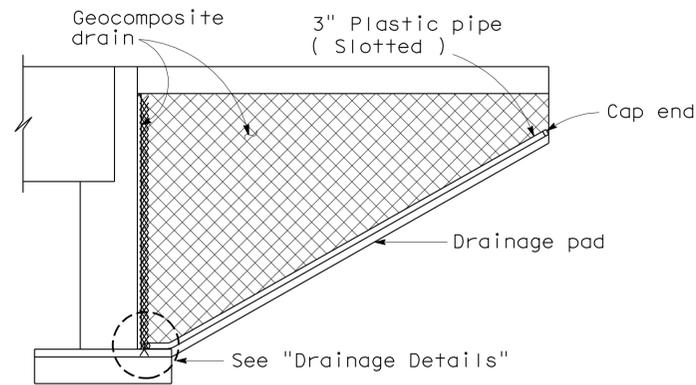
USERNAME => HSTFK DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:44

| | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|-------------------------|-----------|--------------|
| DIST. | COUNTY | ROUTE | MILE POST TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 447 | 602 |
| <i>Phu Vuong Nguyen</i> 3-2-11 REGISTERED ENGINEER - CIVIL | | | | | |
| 6-27-11 | | | | | |
| PLANS APPROVAL DATE | | | | | |
| <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small> | | | | | |

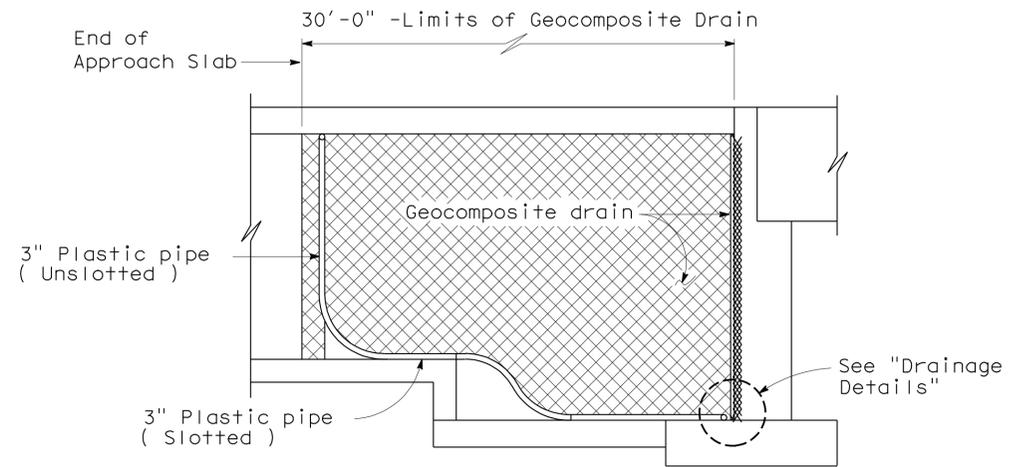


TYPICAL PLAN
1"=10'

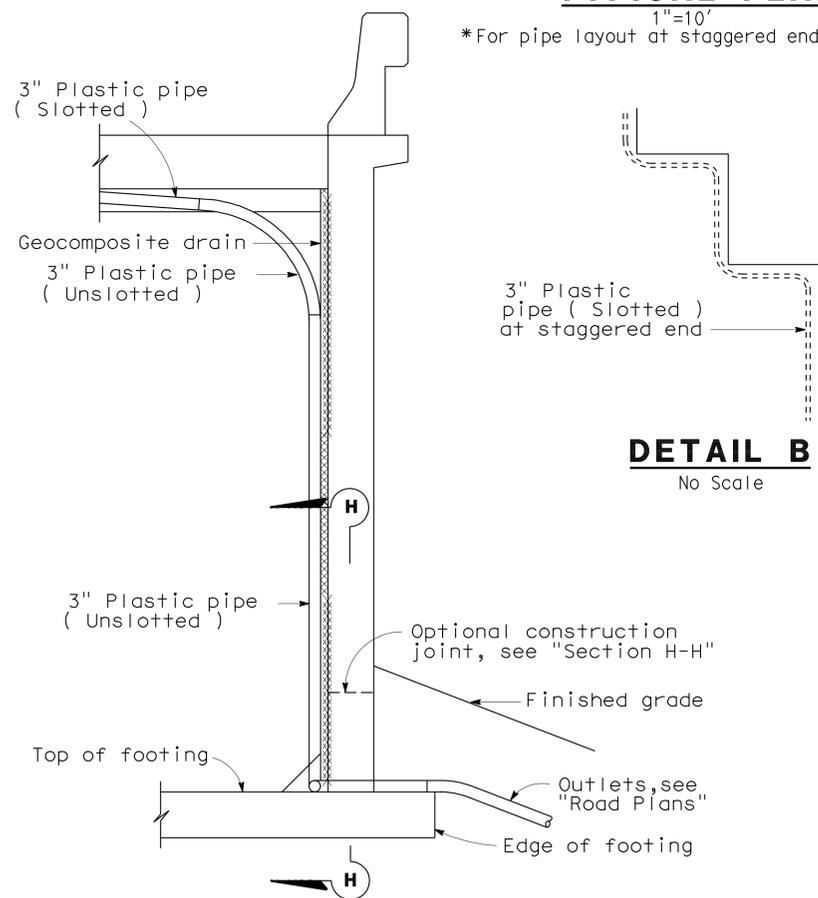
*For pipe layout at staggered end, see "Detail B".



CANTILEVER WINGWALL SECTION F-F
1/4"=1'-0"



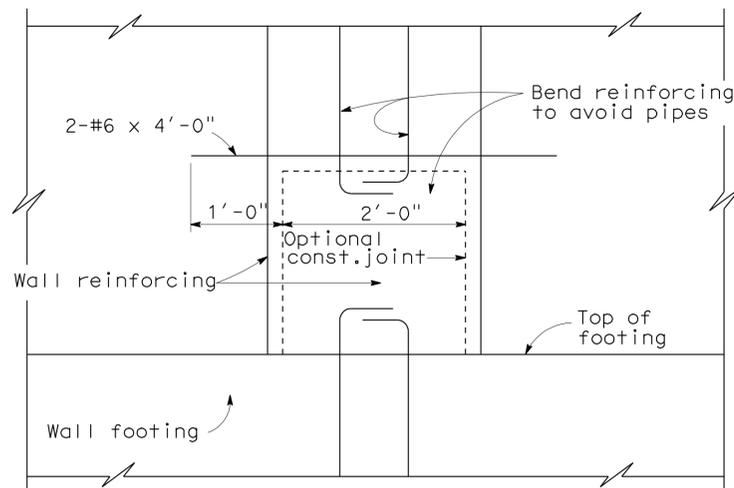
RETAINING WALL WINGWALL SECTION G-G
1/4"=1'-0"



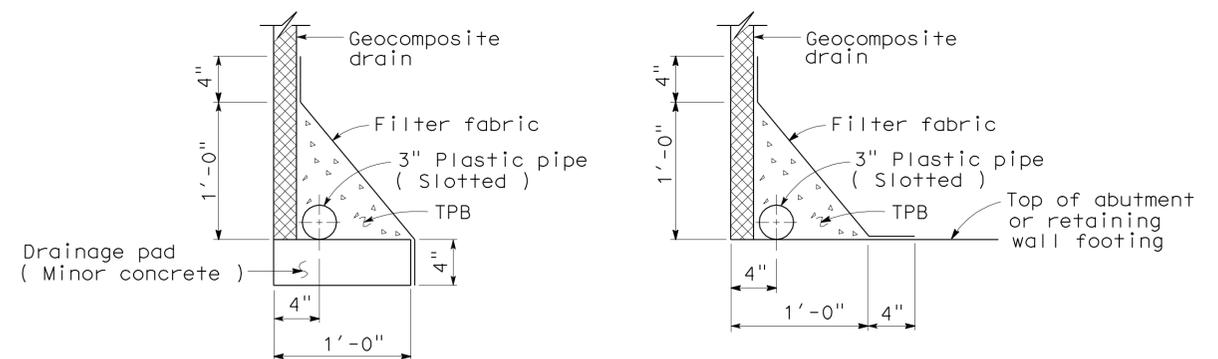
DETAIL B
No Scale

SECTION E-E
1/2"=1'-0"

NOTE: Bends and junctions in 3" plastic pipe are 30" radius min.



SECTION H-H
1"=1'-0"



WITHOUT FOOTING

WITH FOOTING

DRAINAGE DETAILS

1/2"=1'-0"

| | | | |
|-------------------------|---------------------------|---------------------------|--------------------|
| STANDARD DRAWING | | | |
| RELEASE DATE 4/23/98 | DESIGN BY M. TRAFFALIS | CHECKED E. THORKILDSEN | RELEASED BY |
| FILE NO. xs3-110e | DETAILS BY R. YEE | CHECKED E. THORKILDSEN | <i>[Signature]</i> |
| | SUBMITTED BY M. HA | DRAWING DATE 4/98 | OFFICE CHIEF |

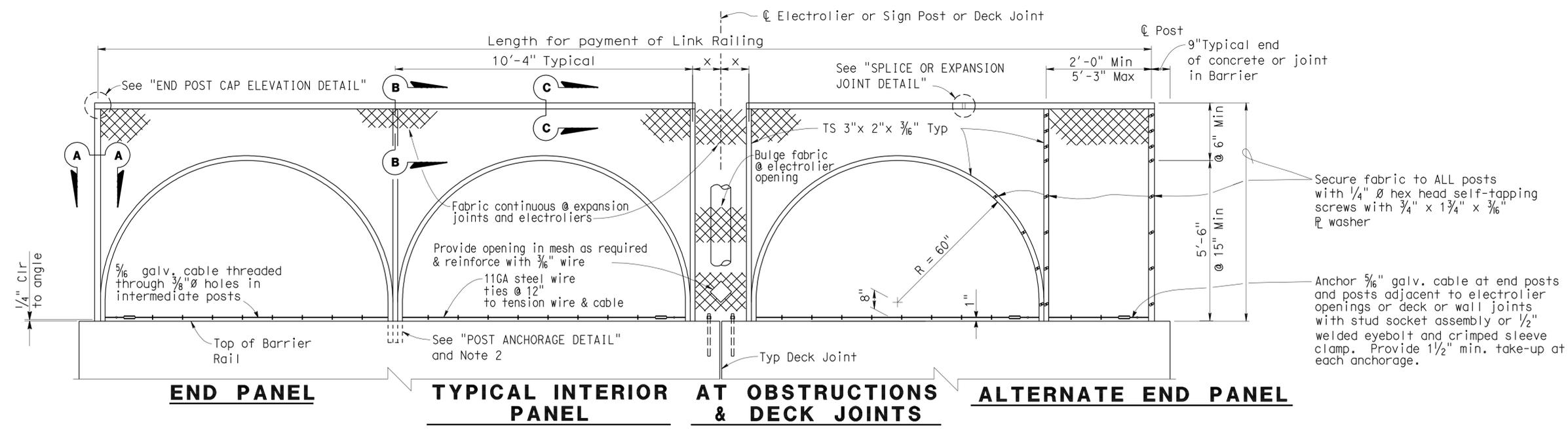
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO.
53-3038
MILE POST
1.68

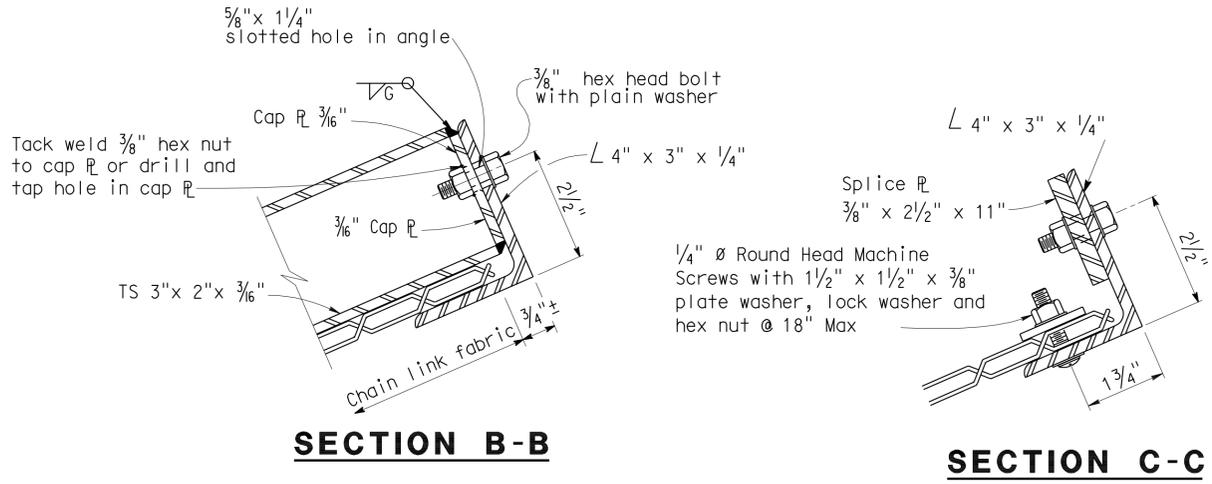
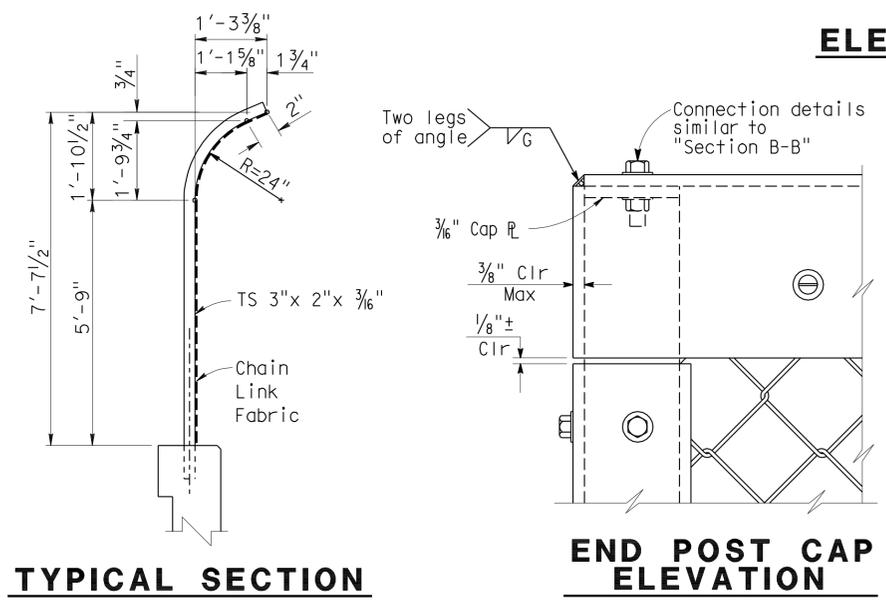
ALONDRA BLVD OC (REPLACE)
STRUCTURE APPROACH DRAINAGE DETAILS

| | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|----------------------------------------------------------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 448 | 602 |
| PHU V. NGUYEN REGISTERED CIVIL ENGINEER DATE 3-2-11 | | | PHU V. NGUYEN No. 60358 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA | | |
| PLANS APPROVAL DATE 6-27-11 | | | | | |
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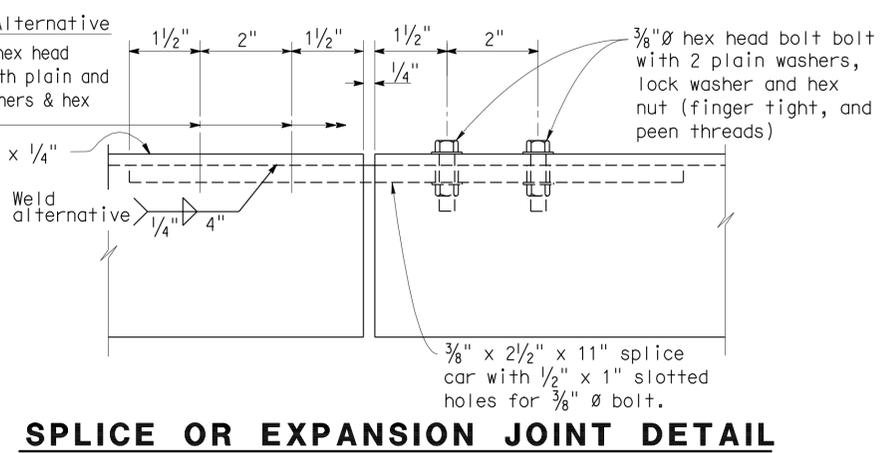
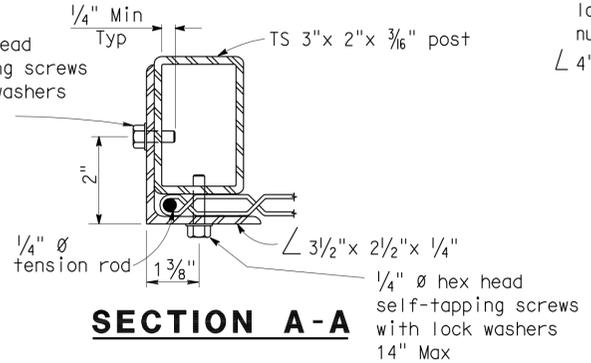
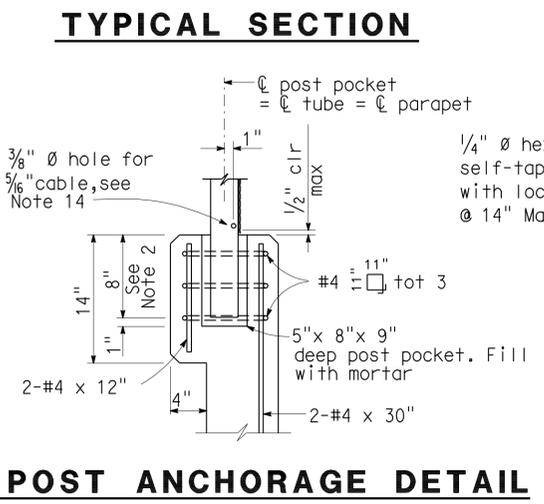
END PANEL TYPICAL INTERIOR PANEL AT OBSTRUCTIONS & DECK JOINTS ALTERNATE END PANEL

ELEVATION



NOTES:

- X = 1'-0" Min @ Electroliers & Sign Post
2'-0" Max
- X = 1'-0" Min @ Deck Joints
1'-4" Max
- 1. Horizontal angle shall be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electroliers and other rail discontinuities.
- 2. One post may be embedded 12" minimum to accommodate grade changes, otherwise fabricate post lengths as required.
- 3. Curved posts may be rotated in plan within its post pocket to accommodate curved horizontal alignment.
- 4. Straight posts and straight portions of curved posts shall be installed normal to bridge profile grade.
- 5. Top horizontal angle shall be parallel to bridge profile grade and shall be shop bent to fit horizontal curves.
- 6. When railing is on slope, fabric shall be placed parallel to slope.
- 7. Alternative details may be submitted by Contractor for Engineer's approval.
- 8. Railing assembly except chain link fabric shall be galvanized after fabrication.
- 9. For details and reinforcement not shown for Type 26 Mod Barrier, see B11-54.
- 10. See Bridge Plans for limits of Chain Link Railing.
- 11. Provide thimbles at all cable loops.
- 12. Chain link fabric to be 96" wide with 1" mesh and with knuckled selvage top and bottom.
- 13. When railing is placed on a horizontal alignment with a radius of 150'-0" or less, thread 5/16" cable through 3/8" welded eye rods embedded 4" into the top of the concrete parapet and equally spaced to limit the middle ordinate distance between the 5/16" cable and the curve to 1" max.
- 14. Holes in posts for 5/16" cable and its anchorage may be field drilled and painted with zinc rich paint.



POST ANCHORAGE DETAIL

| | | | | | | | | |
|----------------------------------------------------------|---------------------------|---------------------|-----------------------------------------------------|-----------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------|----------------|----------------|
| DESIGN | BY Bill Kemp | CHECKED Eric Watson | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | BRIDGE NO. | 53-3038 | ALONDRA BLVD OC (REPLACE) CHAIN LINK RAILING (TYPE 3 MODIFIED) DETAILS | | |
| DETAILS | BY J. Ramirez / B. Jenko | CHECKED Eric Watson | | DESIGN BRANCH | 11 | | POST MILE | 1.68 |
| QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp | | | | | | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | REVISION DATES | SHEET 31 OF 49 |

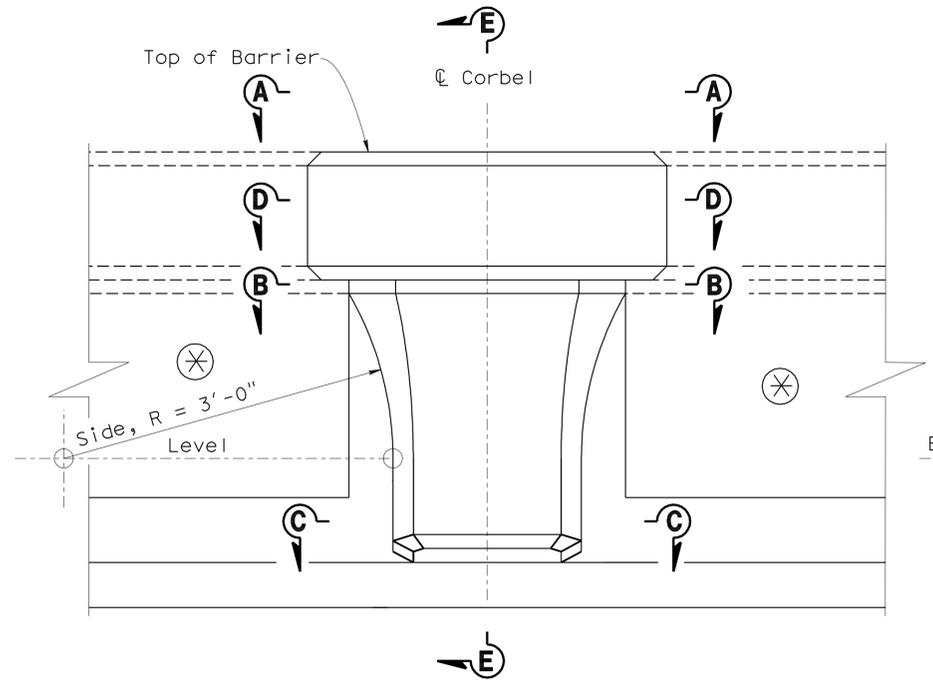
| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 449 | 602 |

PHU V. NGUYEN
 REGISTERED CIVIL ENGINEER DATE 3-2-11
 No. 60358
 Exp. 6-30-12
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 STATE OF CALIFORNIA

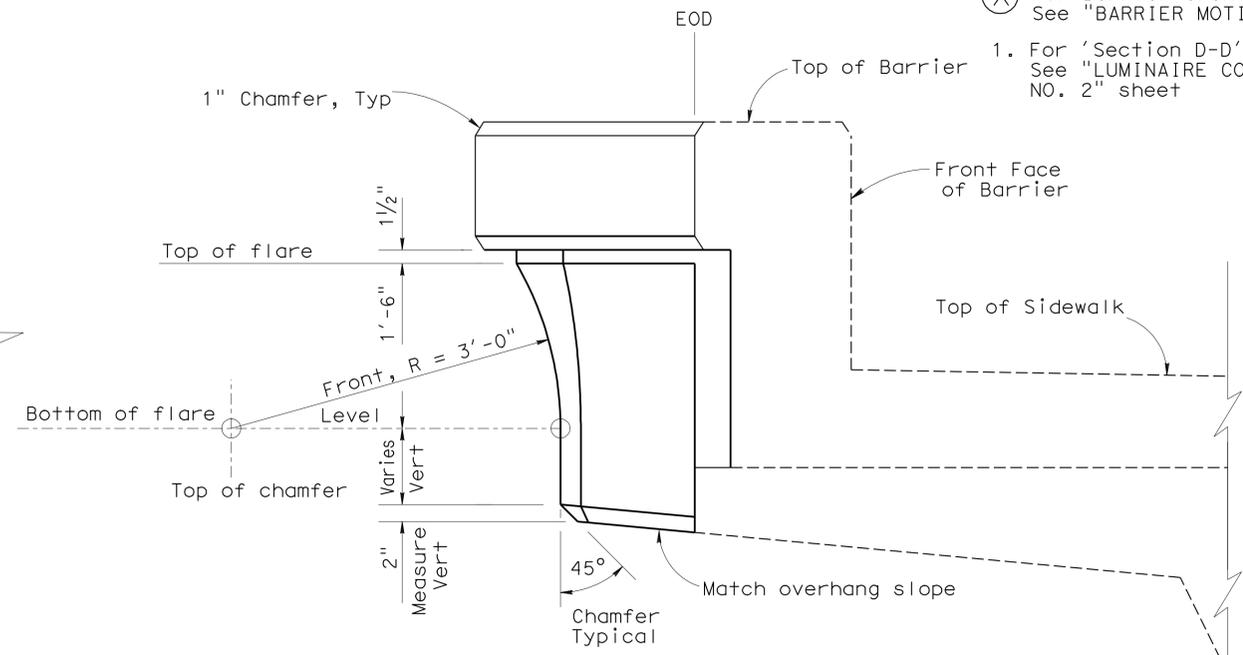
6-27-11
 PLANS APPROVAL DATE
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NOTE:

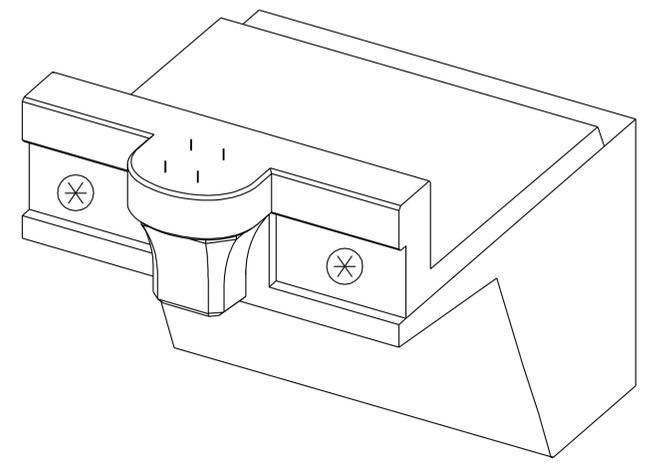
- ⊗ For Barrier architectural treatment See "BARRIER MOTIF DETAILS" sheet
- 1. For 'Section D-D' & 'Section E-E', See "LUMINAIRE CORBEL DETAILS No. 2" sheet



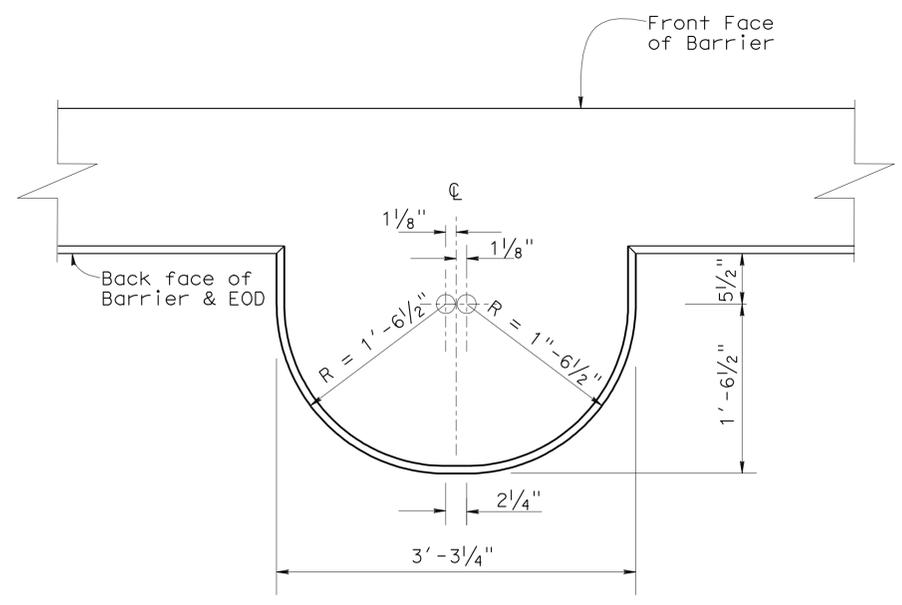
ELEVATION



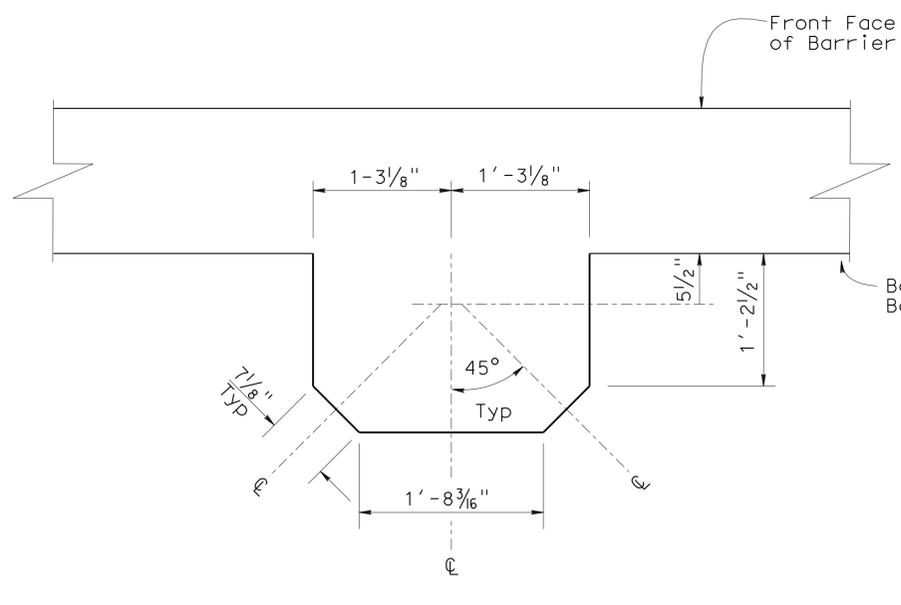
SIDE VIEW



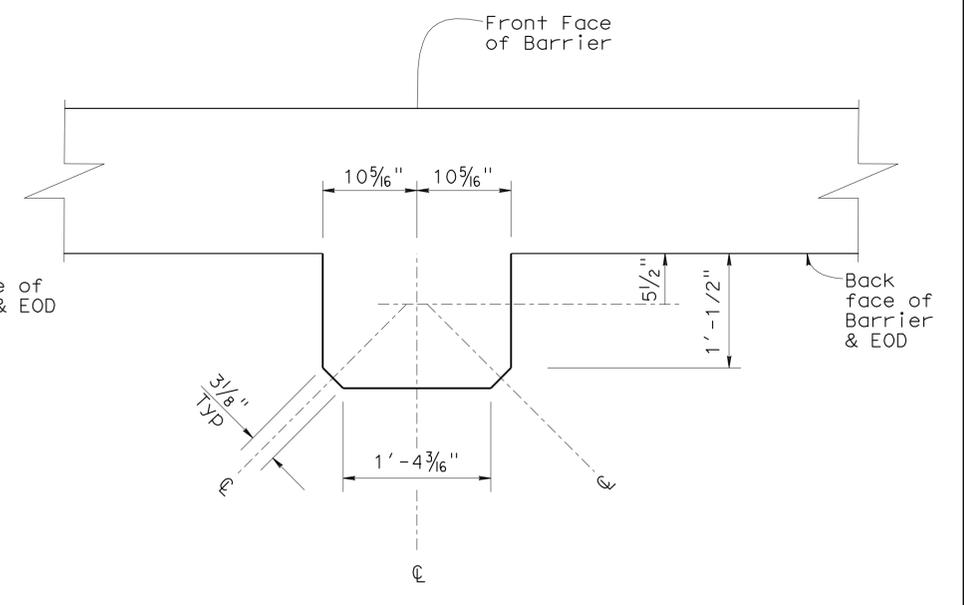
PICTORIAL VIEW



VIEW A-A



VIEW B-B



VIEW C-C

NO SCALE

| | | |
|------------|---------------------------|----------------------|
| DESIGN | BY Krishnakant Andurlekar | CHECKED Mark Okimura |
| DETAILS | BY Jaime Ramirez | CHECKED Mark Okimura |
| QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

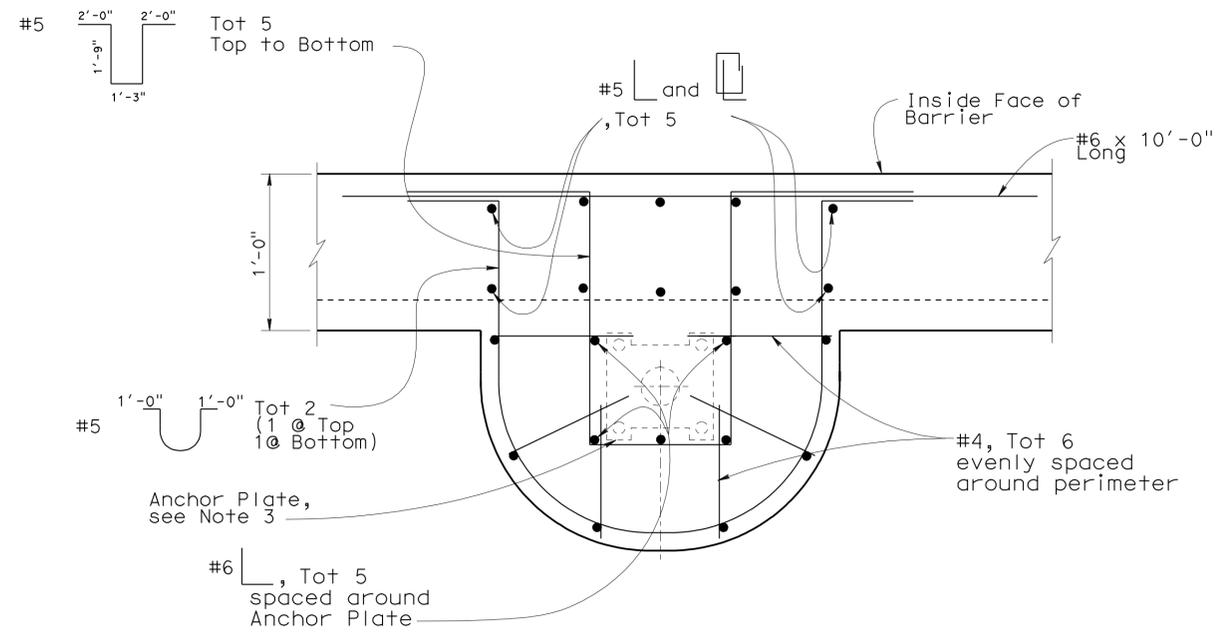
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 11

| | |
|------------|---------|
| BRIDGE NO. | 53-3038 |
| POST MILE | 1.68 |

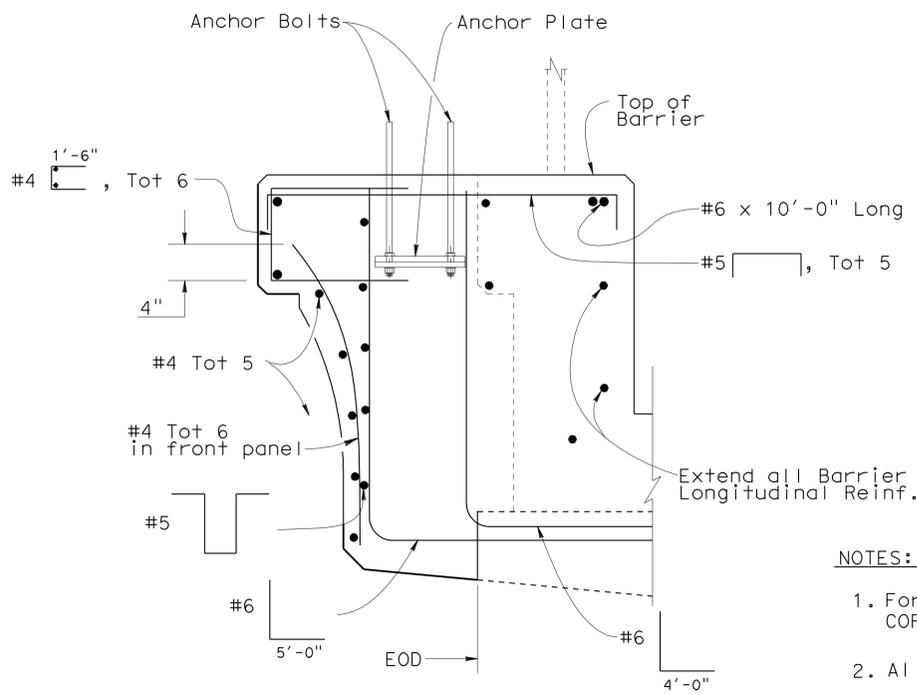
ALONDRA BLVD OC (REPLACE)
 LUMINAIRE CORBEL DETAILS No. 1

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 450 | 602 |

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
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 PHU V. NGUYEN
 No. 60358
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 STATE OF CALIFORNIA
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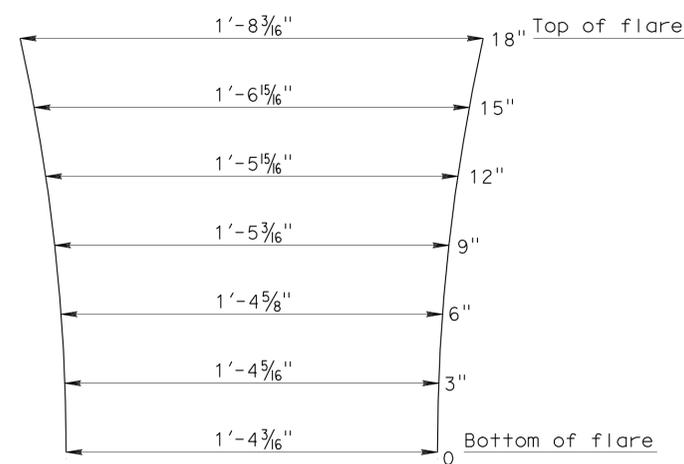
SECTION D-D



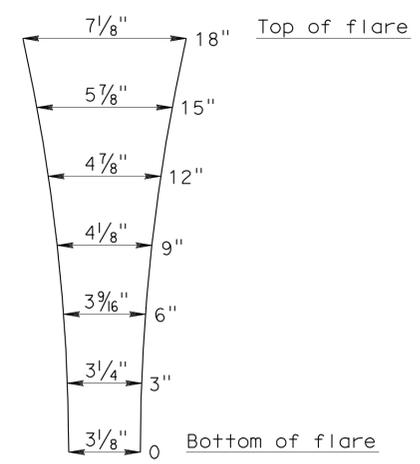
SECTION E-E

NOTES:

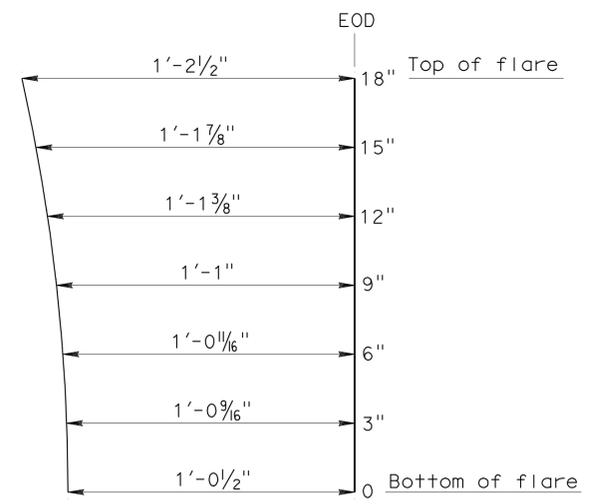
1. For other Details, see "LUMINAIRE CORBEL DETAILS No. 1" sheet.
2. All bars not shown, For Barrier Details, see [B11-54](#).
3. For Electrolier details see "ROAD PLANS"
4. No Splice allowed in Barrier Longitudinal reinf within 10 ft distance on each side of Electrolier location.



FRONT PANEL FACE



CORNER PANEL FACE



SIDE PANEL FACE

NO SCALE

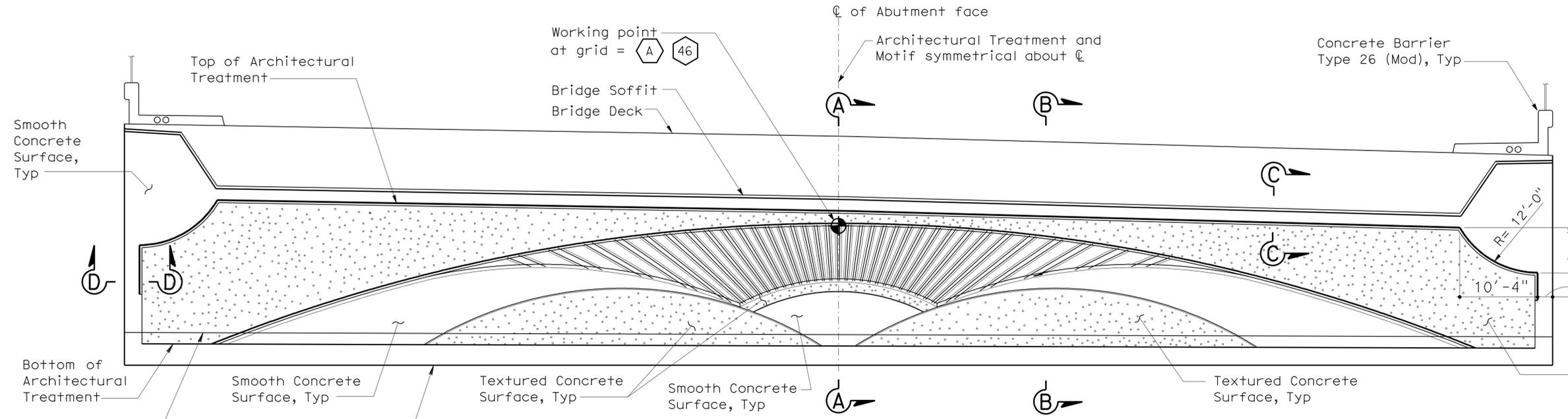
| | | | | | | | | |
|--------------------------------------------------------------------------------------------------------|------------|---------------------------|----------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | DESIGN | BY Krishnakant Andurlekar | CHECKED Mark Okimura | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | 53-3038 | ALONDRA BLVD OC (REPLACE) LUMINAIRE CORBEL DETAILS No. 2 |
| | DETAILS | BY Jaime Ramirez | CHECKED Mark Okimura | | | POST MILE | 1.68 | |
| | QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp | | | REVISION DATES 10-29-09 5-27-11 4-28-11 5-2-11 4-28-10 8-19-10 9-23-10 10-17-10 3-21-11 | | |
| CU 07227 EA 215911 | | | | | | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | SHEET 33 OF 49 |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 451 | 602 |

PHU V. NGUYEN
 REGISTERED CIVIL ENGINEER
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE

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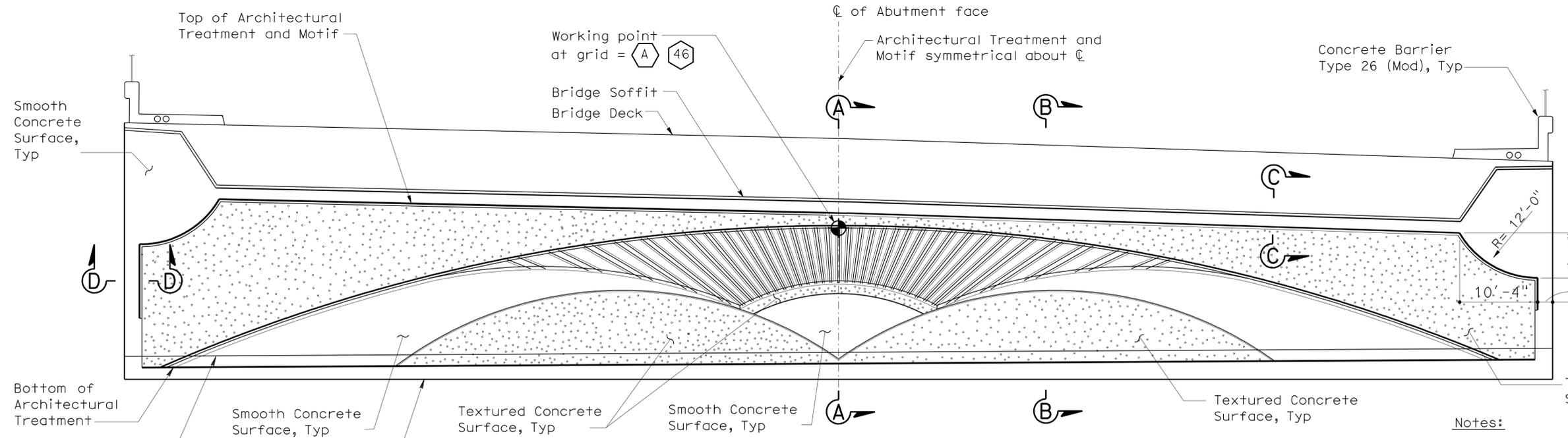


ELEVATION AT ABUTMENT 1

Scale 1/8"=1'-0"

Note: Dimensions Typical for opposite side

- LEGEND:**
- Textured Concrete surface = Split Slate Texture
 - Smooth concrete surface
 - Working Point



ELEVATION AT ABUTMENT 3

Scale 1/8"=1'-0"

Note: Dimensions Typical for opposite side

- Notes:**
1. For 'Section A-A' & 'Section B-B', see "SECTIONS AT ABUTMENTS & RETAINING WALLS" sheet
 2. For 'Section C-C' & 'Section D-D', see "ARCHITECTURAL MOTIF DETAILS AT ABUTMENTS" sheet

| | | | | | |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| DESIGN BY H. Javier Chavez DETAILS BY Jaime Ramirez QUANTITIES BY Krishnakant Andurlekar | CHECKED Isacc Tasabia CHECKED H. Javier Chavez CHECKED Bill Kemp | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. 53-3038 POST MILE 1.68 | ALONDRA BLVD OC (REPLACE) ARCHITECTURAL ELEVATIONS AT ABUTMENTS |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 3-11-10, 3-18-10, 4-6-10, 4-12-10, 4-14-10, 4-28-10, 6-3-10, 10-13-10, 3-21-11 |
| | | | | | SHEET 34 OF 49 |

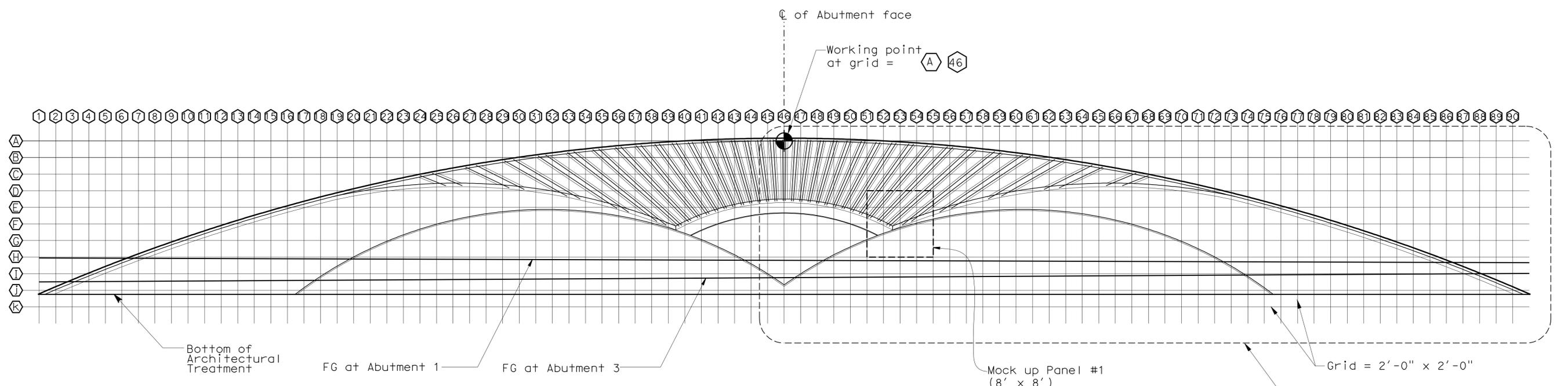
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| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 452 | 602 |

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 PHU V. NGUYEN
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 Exp. 6-30-12
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ARCHITECTURAL MOTIF AT ABUTMENTS 1 & 3
 NO SCALE

| | | |
|------------|---------------------------|--------------------------|
| DESIGN | BY H. Javier Chavez | CHECKED Isacc Tasabia |
| DETAILS | BY Jaime Ramirez | CHECKED H. Javier Chavez |
| QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 11

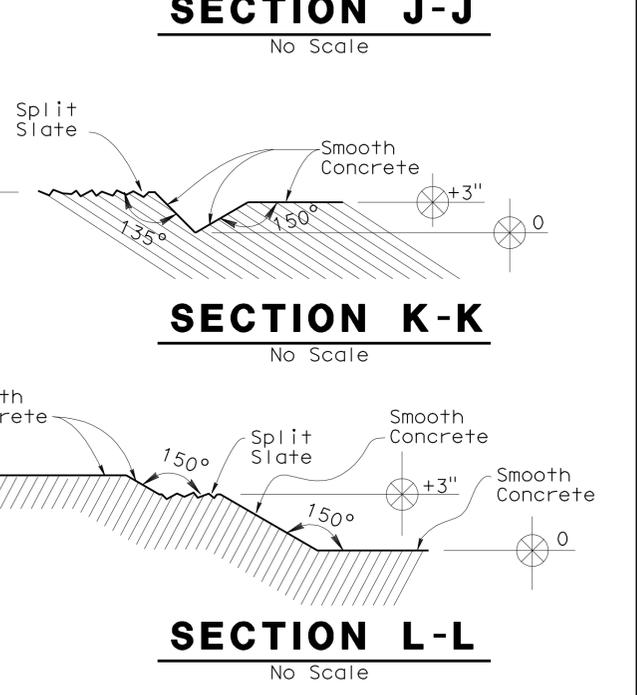
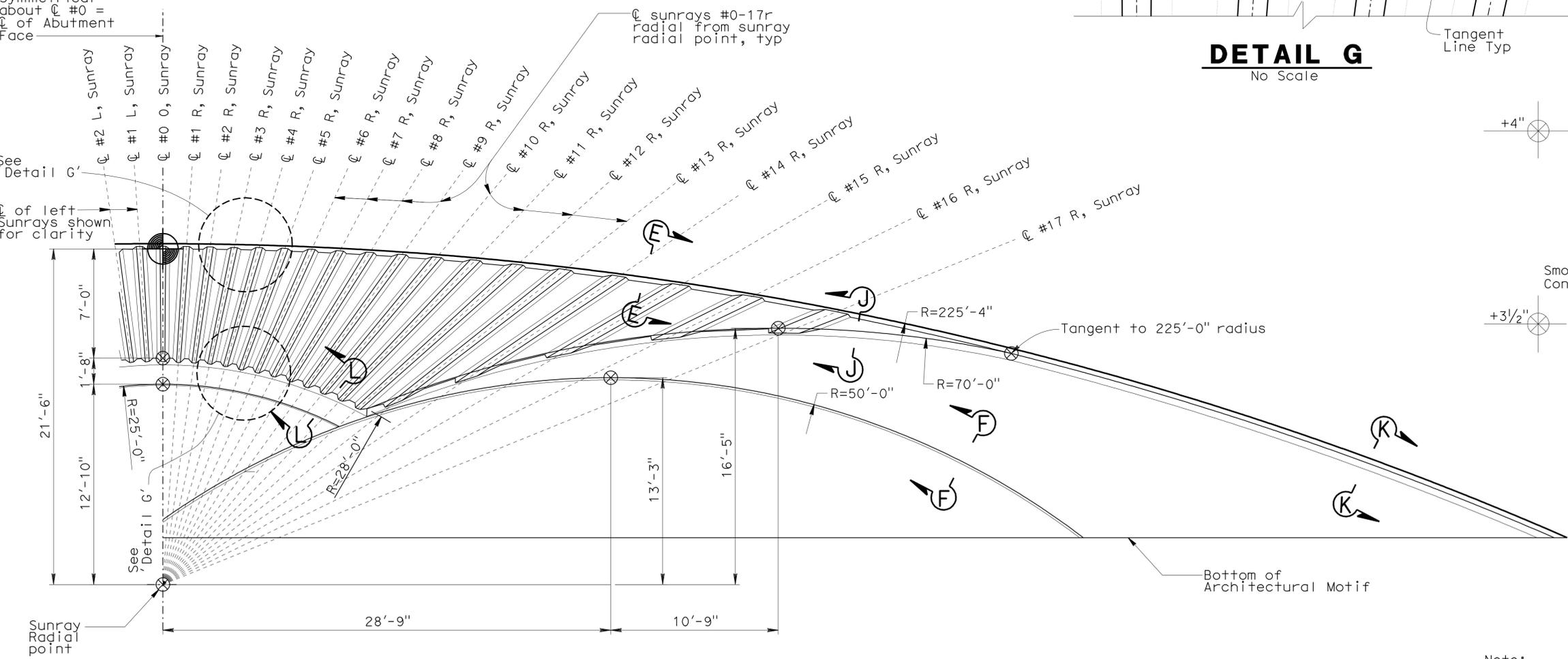
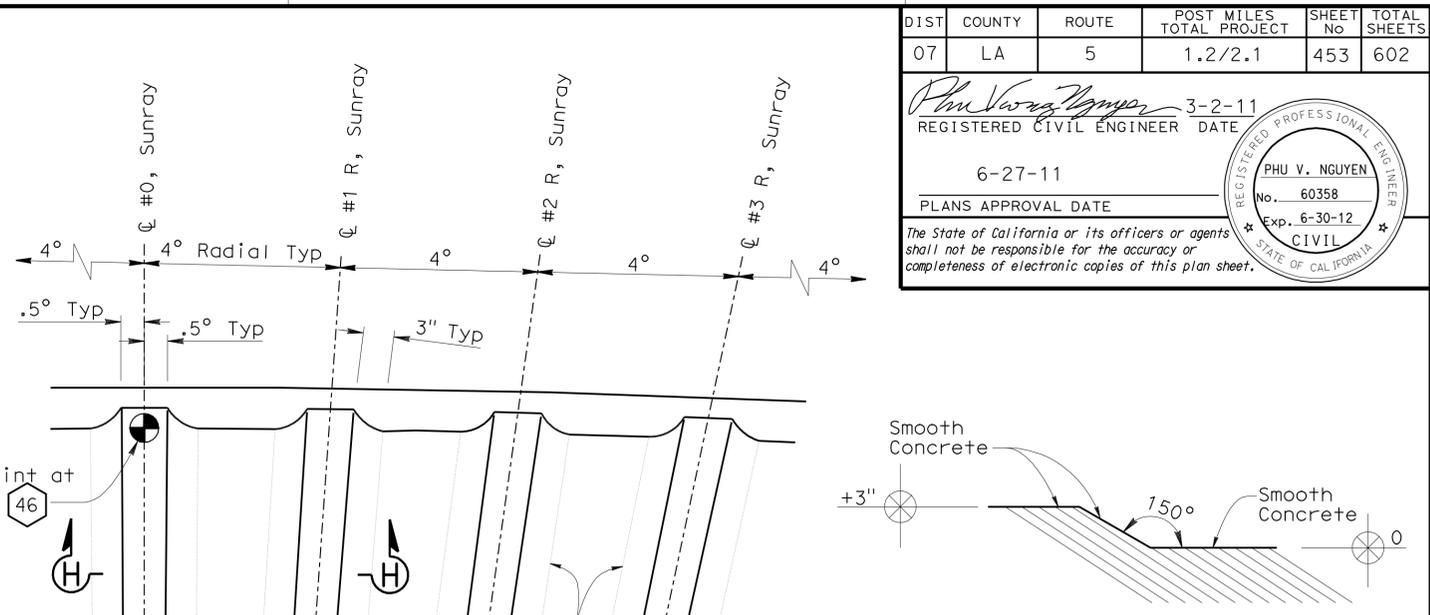
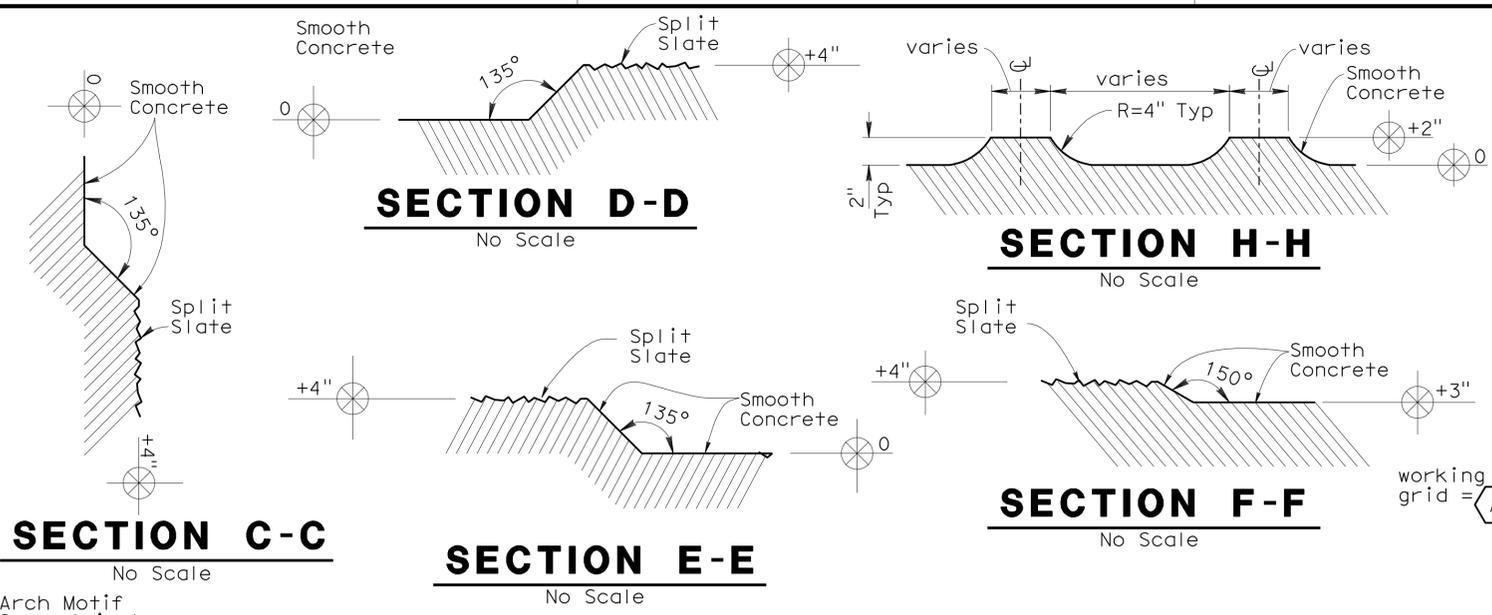
| | |
|------------|---------|
| BRIDGE NO. | 53-3038 |
| POST MILE | 1.68 |

ALONDRA BLVD OC (REPLACE)
ARCHITECTURAL MOTIF AT ABUTMENTS

| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 453 | 602 |

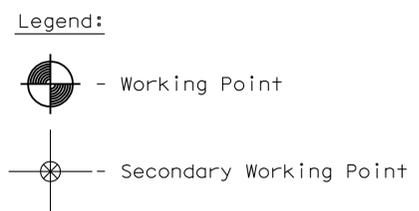
PHU V. NGUYEN
 REGISTERED CIVIL ENGINEER
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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PARTIAL ARCHITECTURAL MOTIF ELEVATION
 Scale 1/4"=1'-0"

- Note:**
- All reference to surface dimensions of wall details are from Datum 0 = face of Abutment typical
 - For Section cut C-C & D-D, see "ARCHITECTURAL ELEVATIONS AT ABUTMENTS" sheet

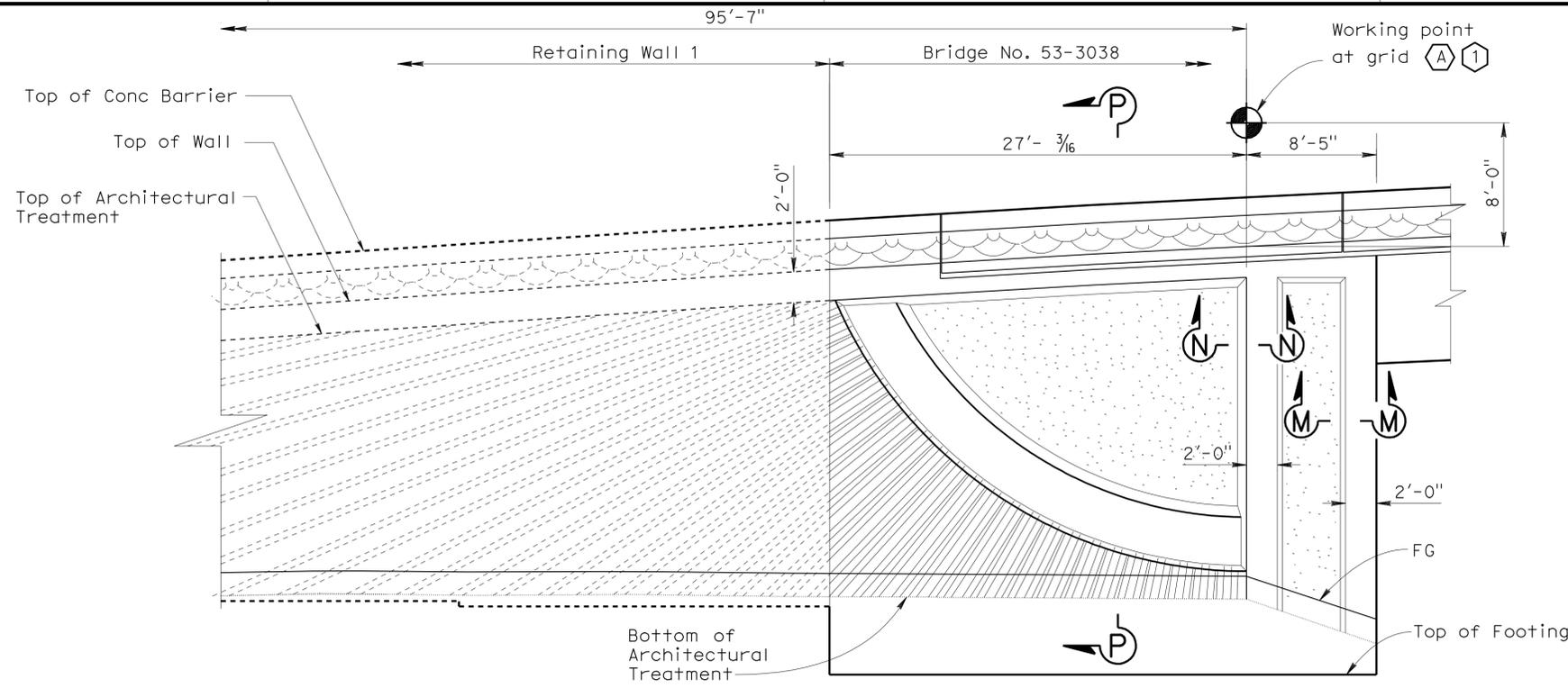


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|----------------------------------------------------------|------------|---------------------------|--------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------|----------------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN | BY H. Javier Chavez | CHECKED Isacc Tasabia | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | ALONDRA BLVD OC (REPLACE) | | |
| | DETAILS | BY Jaime Ramirez | CHECKED H. Javier Chavez | | | 53-3038 | ARCHITECTURAL MOTIF DETAILS AT ABUTMENTS | | |
| | QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp | | | POST MILE 1.68 | | | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | REVISION DATES 3-11-10 3-18-10 4-6-10 4-12-10 4-14-10 4-28-10 3-21-11 | SHEET 36 OF 49 |

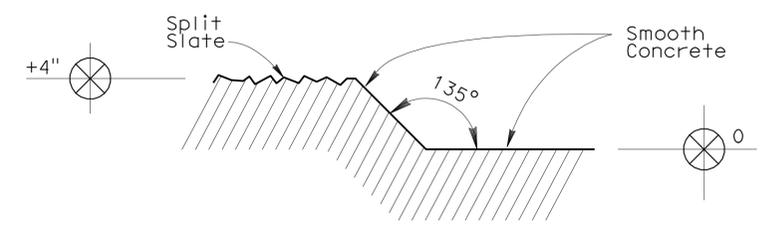
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| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 454 | 602 |

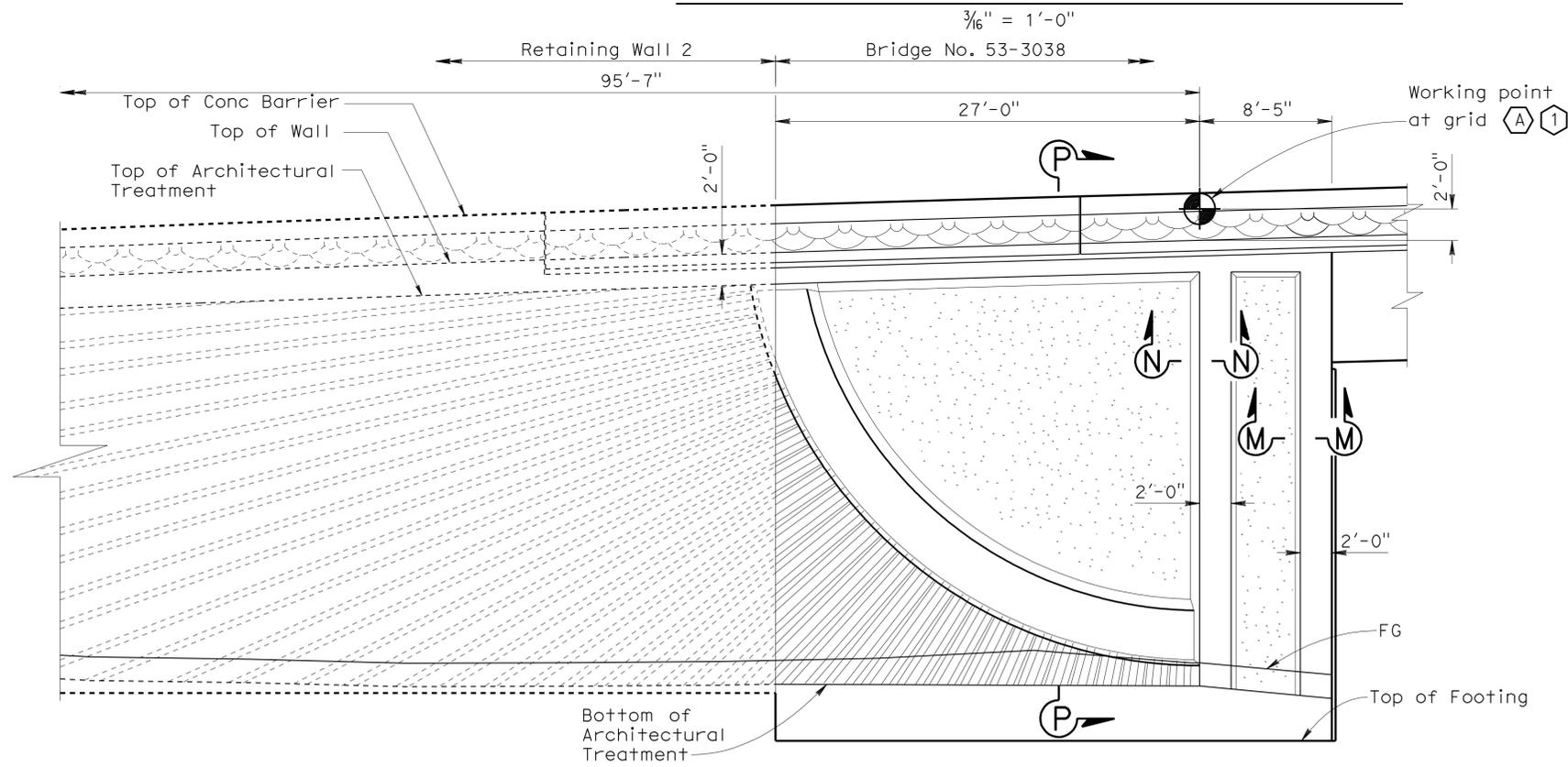
3-2-11
 REGISTERED CIVIL ENGINEER DATE
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE
 6-27-11
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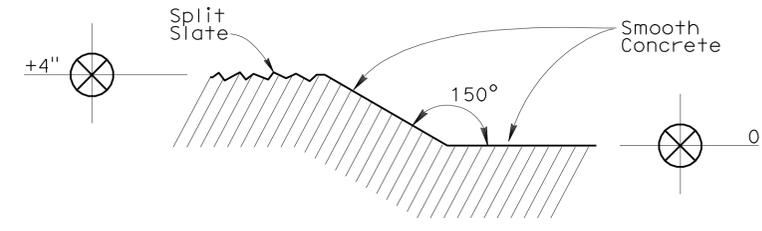
PARTIAL MIRRORED ELEVATION AT RETAINING WALL WINGWALL RW/1



SECTION M-M
No Scale



PARTIAL ELEVATION AT RETAINING WALL WINGWALL/RW 2



SECTION N-N
No Scale

- Notes:
- All reference to surface dimensions of wall details are from Datum 0 = retaining wall LOL, Typ
 - For 'Section P-P', see "SECTIONS AT ABUTMENTS & RETAINING WALLS" sheet

- Legend:
- Textured Concrete surface = Split Slate Texture
 - Smooth Concrete Surface
 - Working Point
 - Secondary Working Point

| | | |
|------------|---------------------------|--------------------------|
| DESIGN | BY H, Javier Chavez | CHECKED Isacc Tasabia |
| DETAILS | BY Jaime Ramirez | CHECKED H. Javier Chavez |
| QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

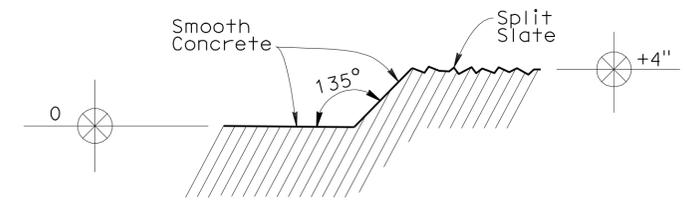
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 11

| | |
|------------|---------|
| BRIDGE NO. | 53-3038 |
| POST MILE | 1.68 |

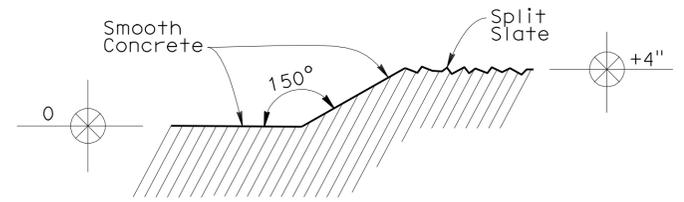
ALONDRA BLVD OC (REPLACE)
PARTIAL ELEVATIONS AT RETAINING WALLS 1 & 2

| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 455 | 602 |

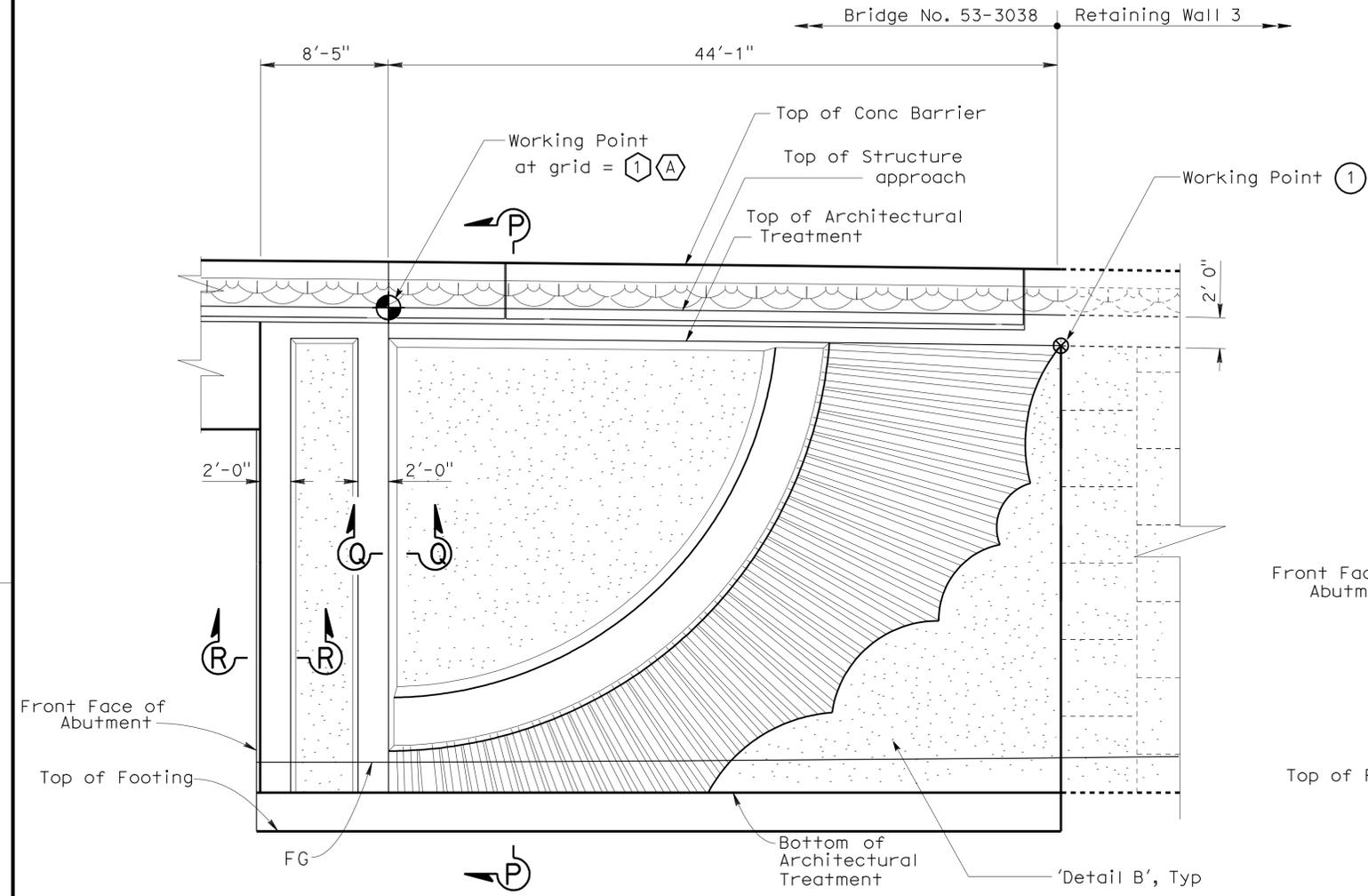
PHU V. NGUYEN
 REGISTERED CIVIL ENGINEER DATE 3-2-11
 PLANS APPROVAL DATE 6-27-11
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



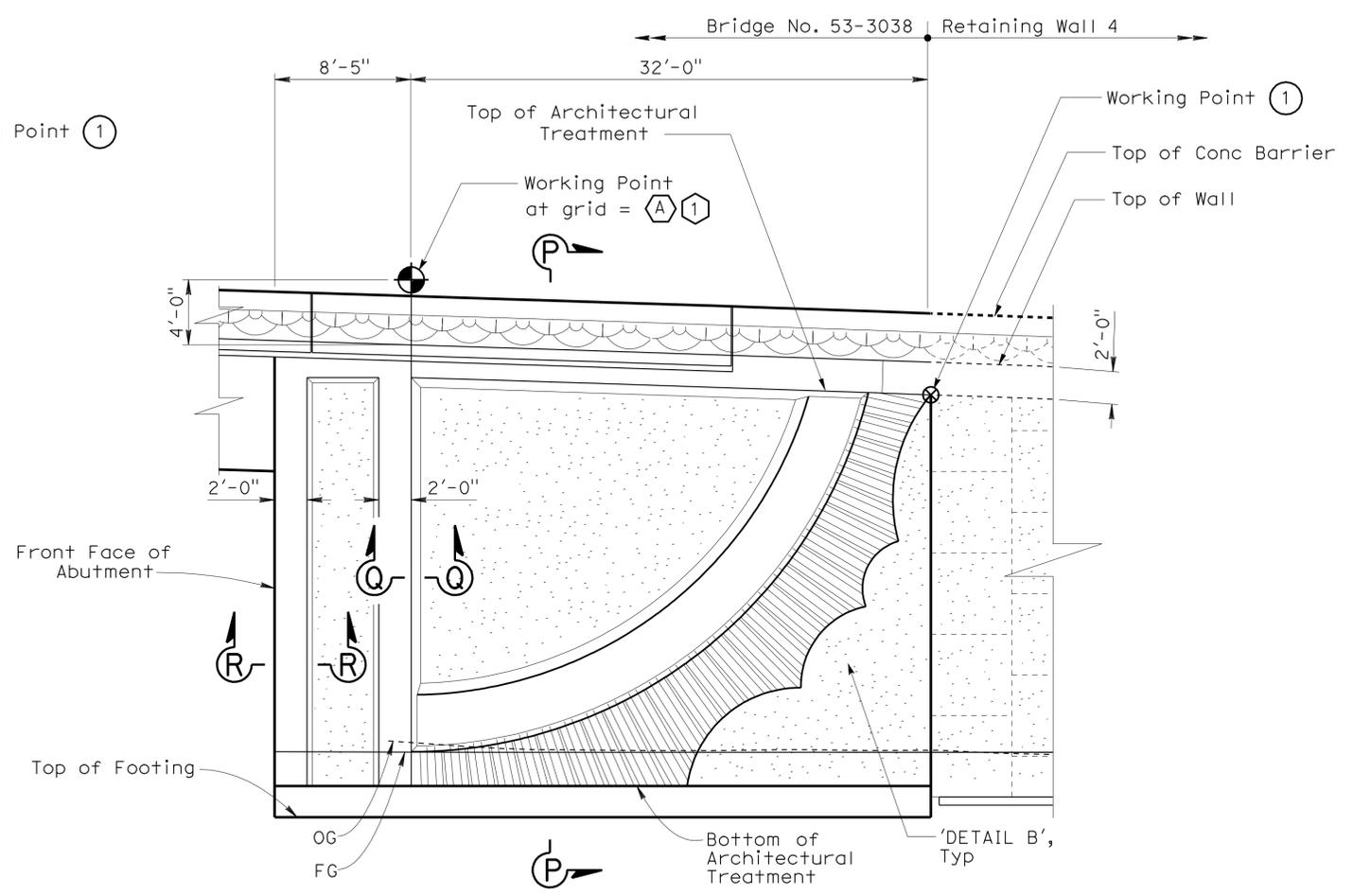
SECTION R-R
No Scale



SECTION Q-Q
No Scale



PARTIAL MIRRORED ELEVATION AT RETAINING WALL WINGWALL/RW 3
NO SCALE



PARTIAL ELEVATION AT RETAINING WALL WINGWALL/RW 4
NO SCALE

- LEGEND:**
- Textured concrete surface = split slate texture
 - Smooth Concrete Surface
 - Working Point
 - Secondary Working Point

- Notes:**
1. All reference to surface dimensions of wall details are from Datum 0 = retaining wall LOL, Typ
 2. For 'Section P-P' see "SECTIONS AT ABUTMENTS AND RETAINING WALLS" sheet
 3. For 'Detail B', see "ARCHITECTURAL MOTIF AT RETAINING WALLS" sheet

| | | | | | | | | | |
|------------|---------|------------------------|---------------|---------------|-----------------------------------------------------|---------------------------------------------------------------------------------|------------------|---------------------------|---------------------------------------------|
| DESIGN | BY | H. Javier Chavez | CHECKED | Isacc Tasabia | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | ALONDRA BLVD OC (REPLACE) | |
| | DETAILS | BY | Jaime Ramirez | CHECKED | | | H. Javier Chavez | 53-3038 | PARTIAL ELEVATIONS AT RETAINING WALLS 3 & 4 |
| QUANTITIES | BY | Krishnakant Andurlekar | CHECKED | Bill Kemp | | POST MILE | 1.68 | | |

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 CU 07227 EA 215911 DISREGARD PRINTS BEARING EARLIER REVISION DATES

| | | | | | | | | | | |
|----------------|---------|---------|---------|---------|---------|--------|---------|---------|----|----|
| REVISION DATES | | | | | | | | SHEET | OF | |
| 10-29-09 | 1-26-10 | 3-18-10 | 4-13-10 | 4-15-10 | 4-28-10 | 5-5-10 | 2-17-11 | 3-21-11 | 38 | 49 |

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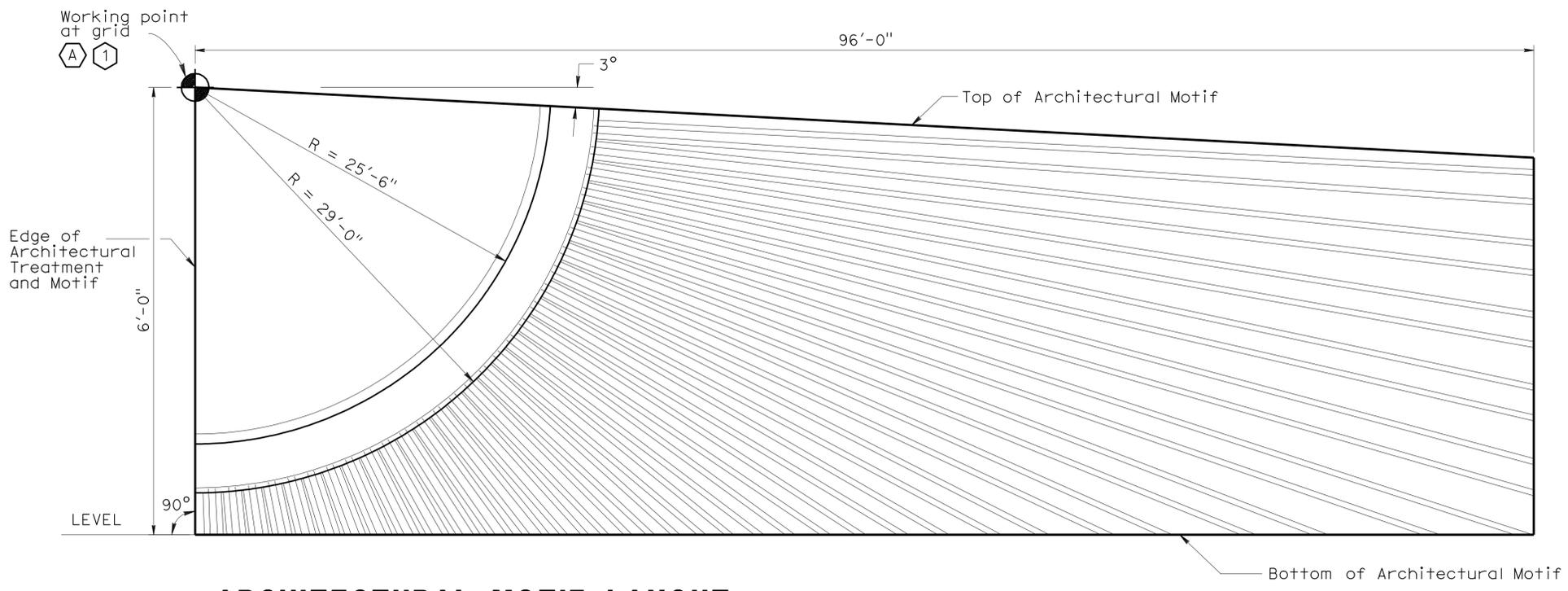
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 456 | 602 |

PHU V. NGUYEN
 REGISTERED CIVIL ENGINEER
 No. 60358
 Exp. 6-30-12
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3-2-11
 REGISTERED CIVIL ENGINEER DATE
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 PLANS APPROVAL DATE
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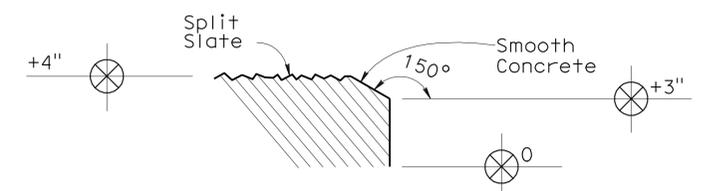
Legend:

-  Working Point
-  Secondary Working Point

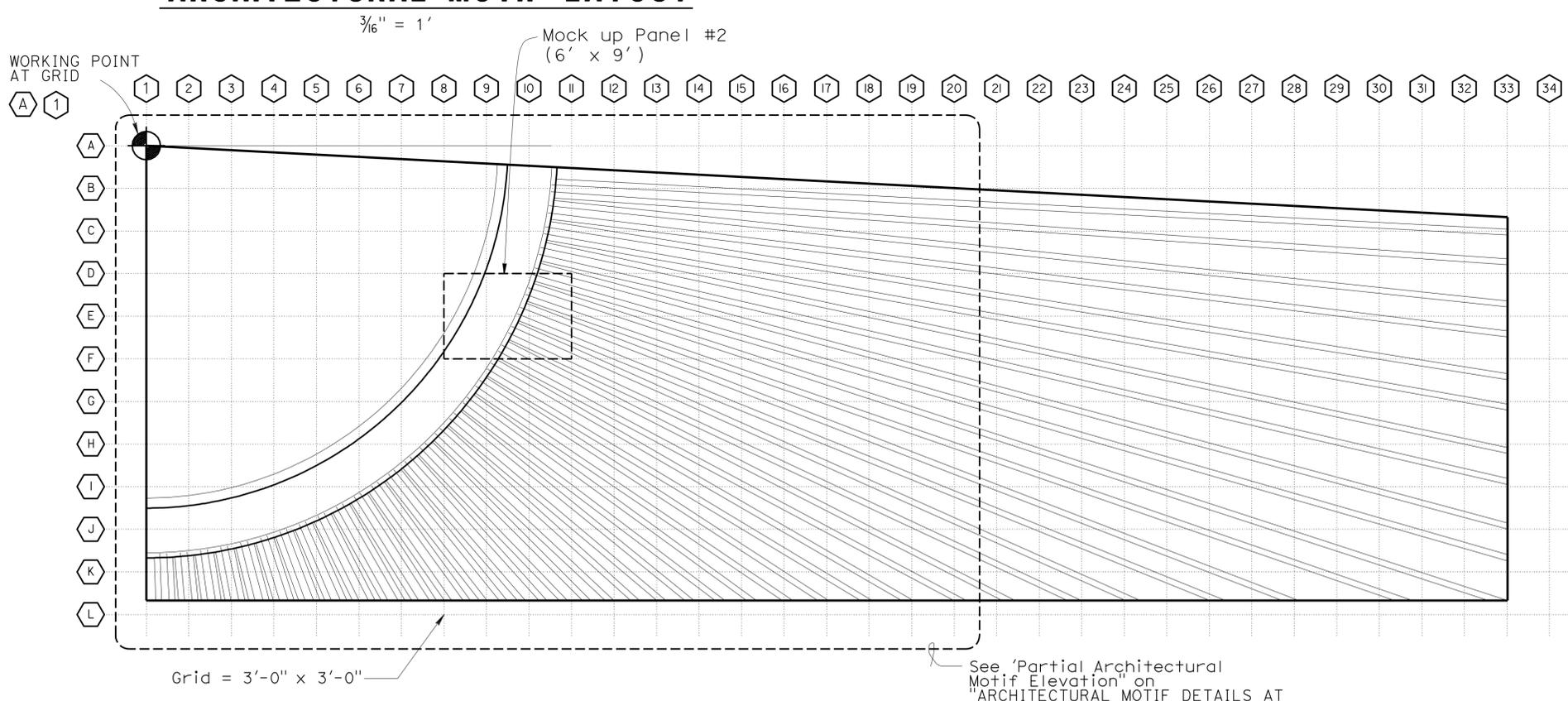


ARCHITECTURAL MOTIF LAYOUT

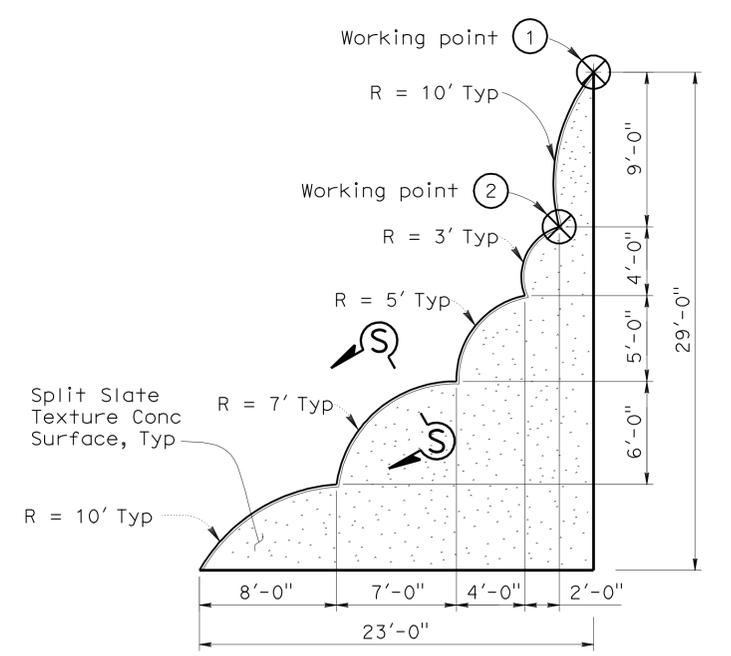
Note: All reference to surface dimensions of wall details are from datum 0 = retaining wall LOL, typical



SECTION S-S
No Scale



ARCHITECTURAL MOTIF ELEVATION



DETAIL B
 $\frac{3}{16}'' = 1'$

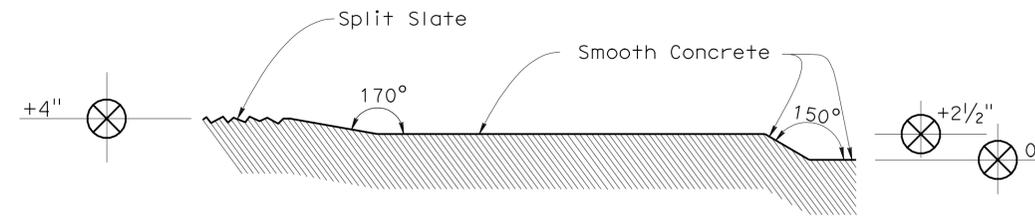
Note: For 'Detail B' location, see "PARTIAL ELEVATION AT RETAINING WALLS 3 & 4" sheet.

| | | | | | | | | |
|----------------------------------------------------------|------------|---------------------------|--------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------|----------------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN | BY H. Javier Chavez | CHECKED Isacc Tasabia | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | ALONDRA BLVD OC (REPLACE) | |
| | DETAILS | BY Jaime Ramirez | CHECKED H. Javier Chavez | | | 53-3038 | ARCHITECTURAL MOTIF AT RETAINING WALLS | |
| | QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp | | | POST MILE 1.68 | | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | 0 1 2 3 | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | SHEET 39 OF 49 |

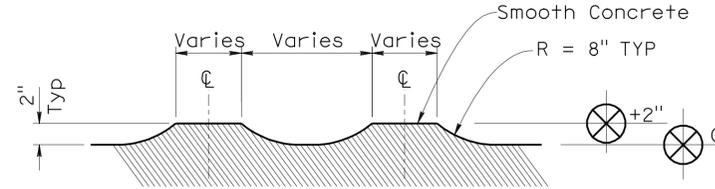
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| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 457 | 602 |

PHU V. NGUYEN
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 DATE 3-2-11
 6-27-11
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SECTION U-U
No Scale

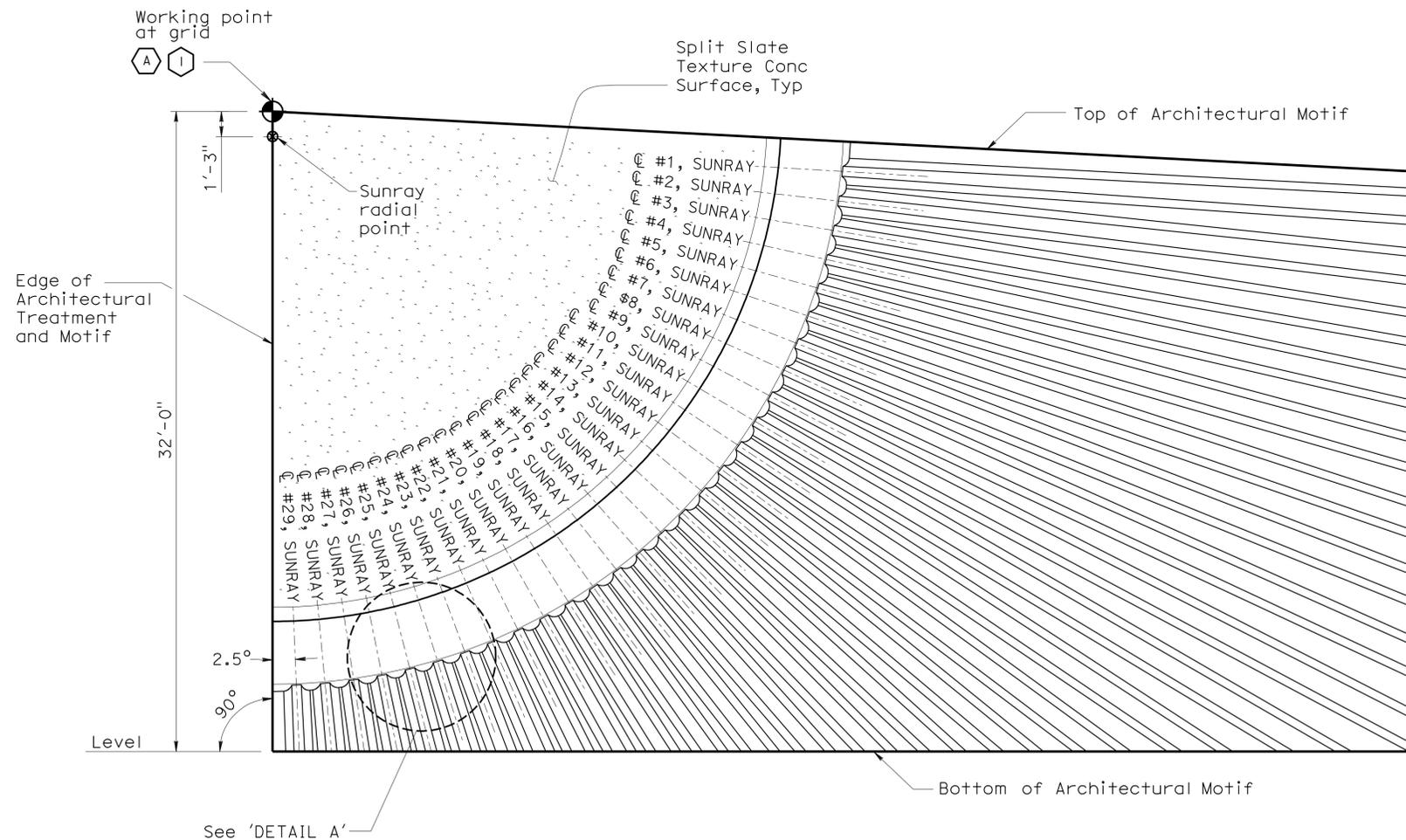


SECTION T-T
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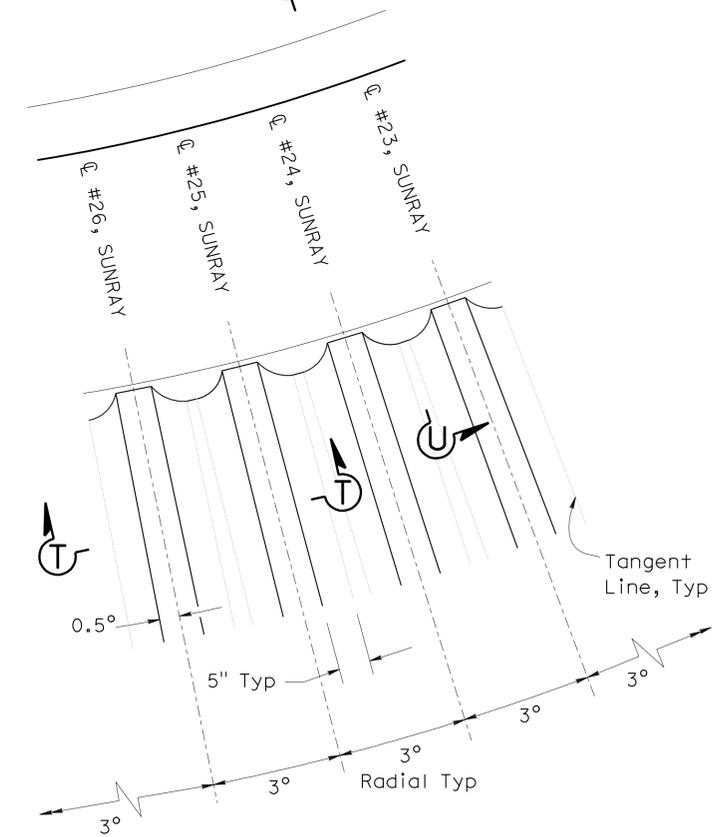
Note: All reference to surface dimensions of wall details are from datum 0 = retaining wall LOL, typical

Legend:

- Split Slate Texture Concrete Surface
- Smooth Concrete Surface
- Working Point
- Secondary Working Point



PARTIAL ARCHITECTURAL MOTIF ELEVATION
1/4" = 1'

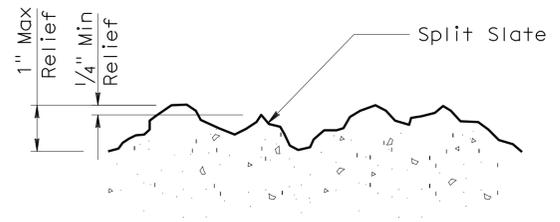


DETAIL A
3/4" = 1'

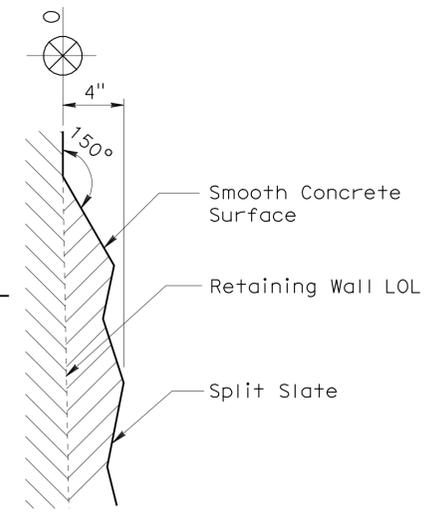
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|----------------------------------------------------------|------------|---------------------------|--------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------|----------------|----------------------------------|-------------------------------------------------------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN | BY H. Javier Chavez | CHECKED Isacc Tasabia | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | ALONDRA BLVD OC (REPLACE) | |
| | DETAILS | BY Jaime Ramirez | CHECKED H. Javier Chavez | | | 53-3038 | | ARCHITECTURAL MOTIF DETAILS AT RETAINING WALLS |
| | QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp | | | POST MILE 1.68 | | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | CU 07227 EA 215911 | REVISION DATES | | SHEET 40 OF 49 | |

| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 458 | 602 |

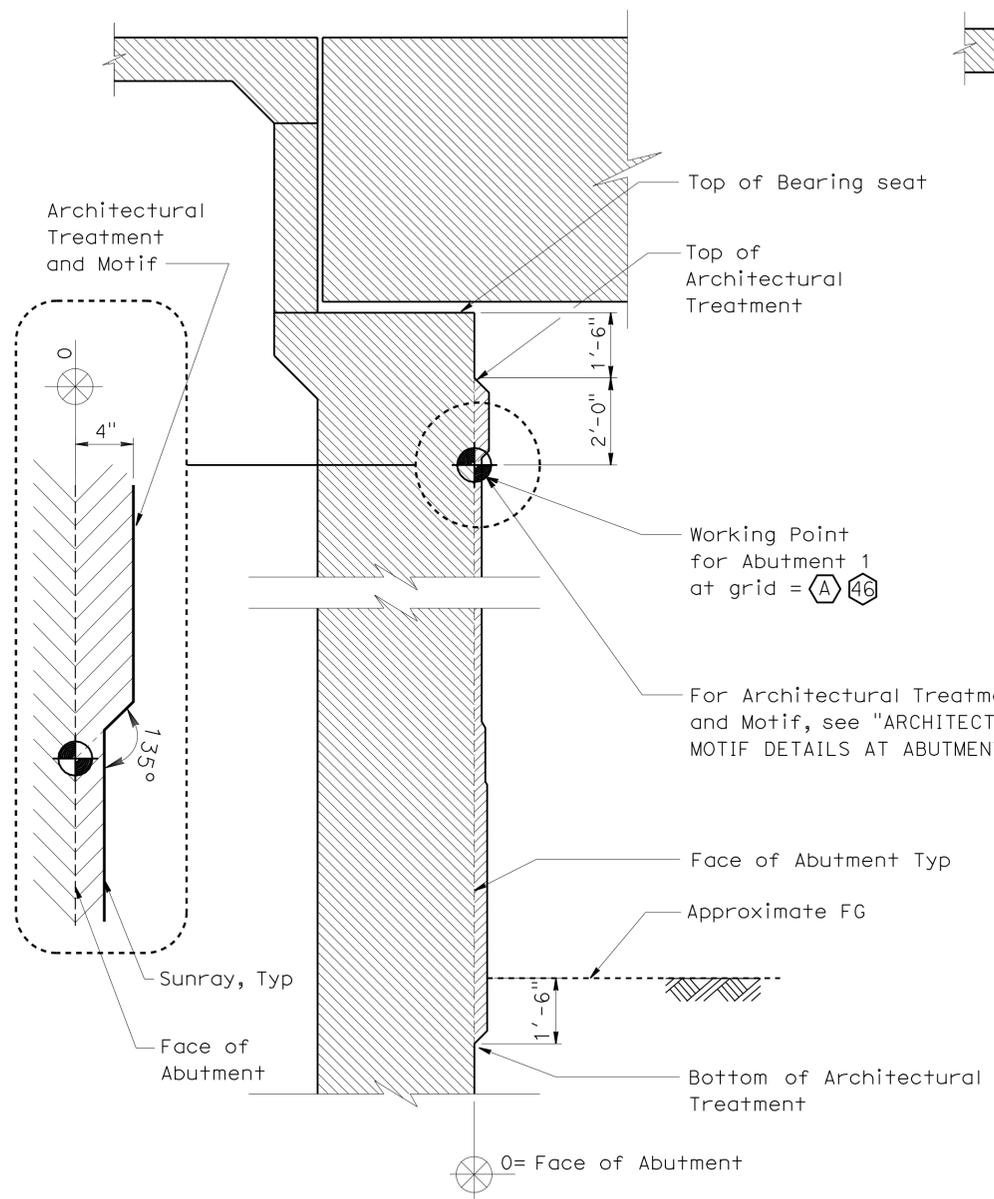
REGISTERED CIVIL ENGINEER DATE 3-2-11
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
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 STATE OF CALIFORNIA
 6-27-11
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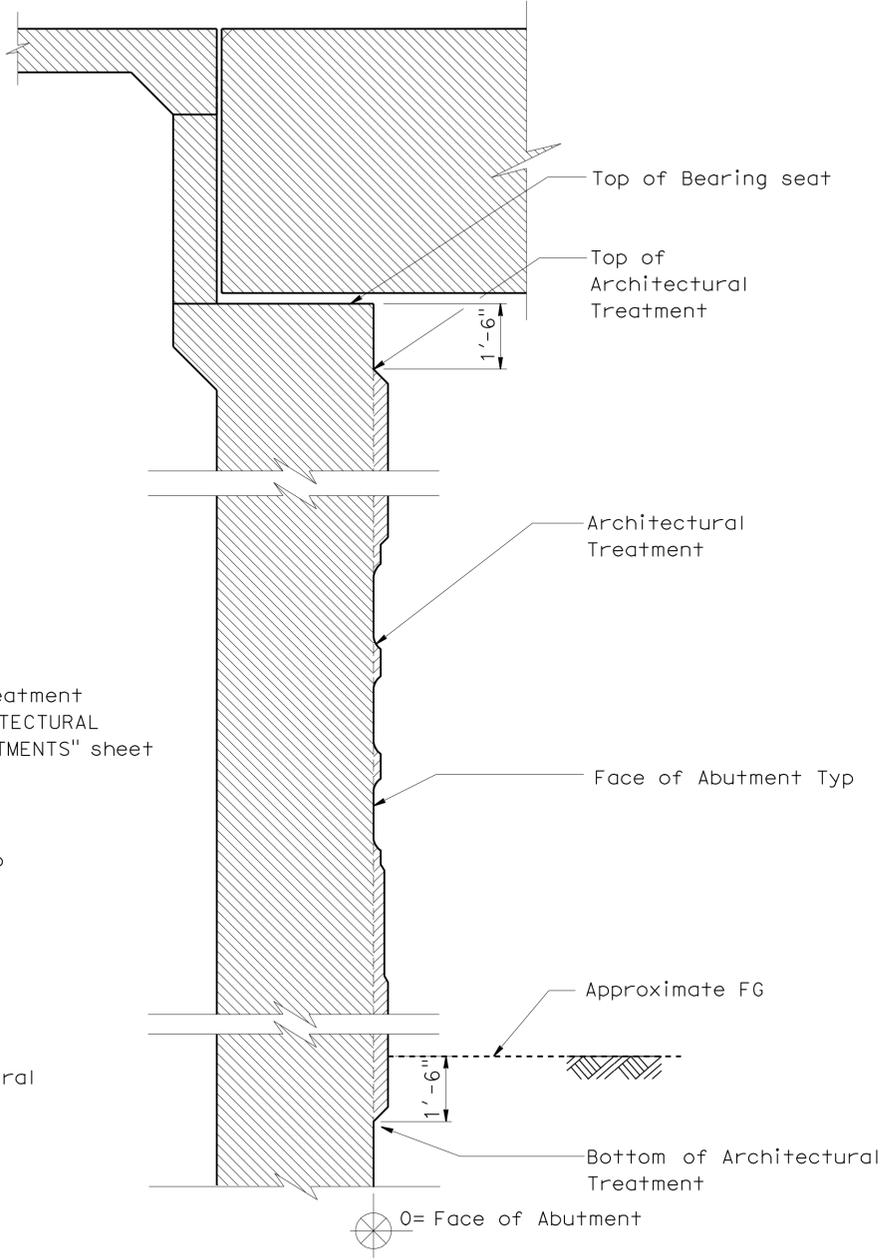
SPLIT SLATE TEXTURE
No Scale



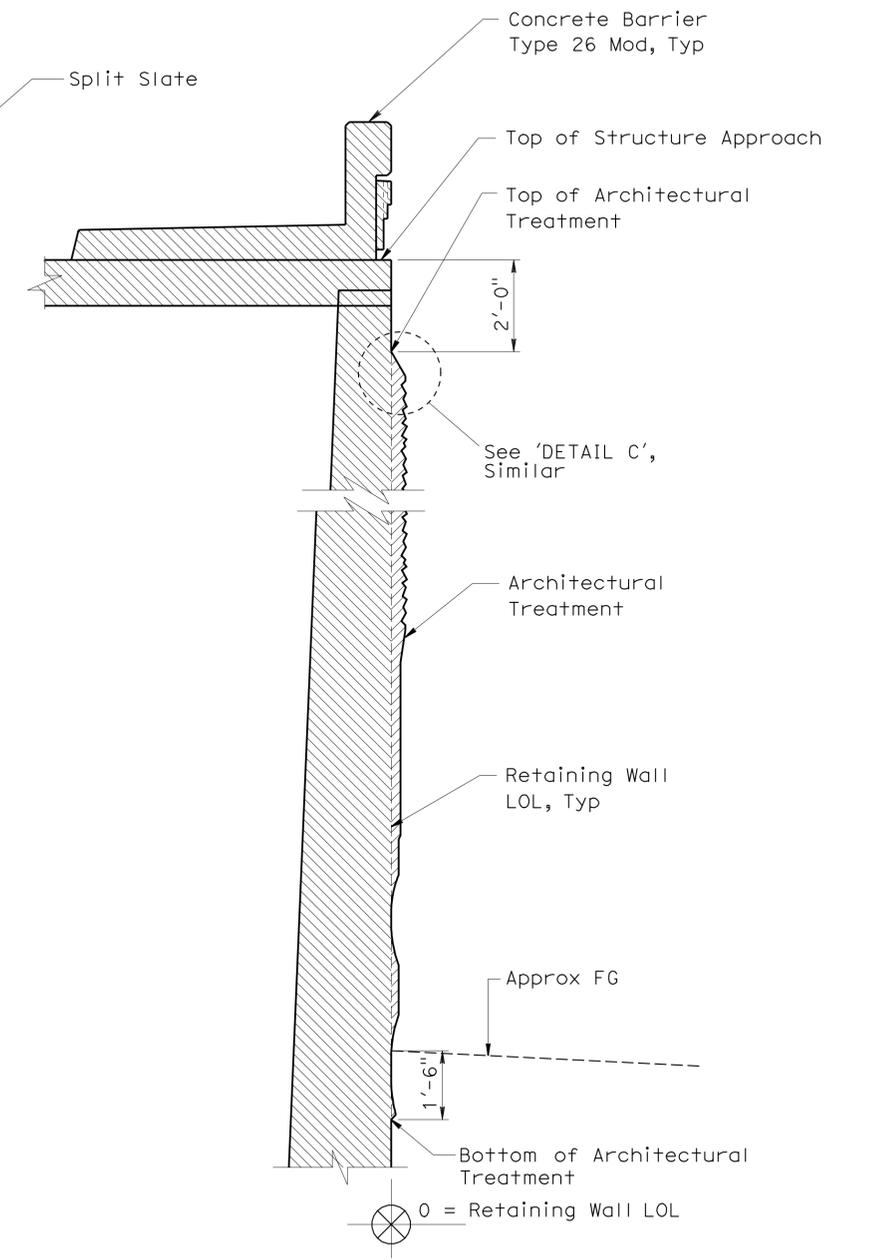
DETAIL C
No Scale



SECTION A-A
NO SCALE



SECTION B-B
NO SCALE



SECTION P-P
NO SCALE

- Notes:
- For Section cuts A-A, and B-B, see "ARCHITECTURAL ELEVATIONS AT ABUTMENTS" sheet
 - For Section cut P-P, see "PARTIAL ELEVATIONS AT RETAINING WALLS 1 & 2" & "PARTIAL ELEVATIONS AT RETAINING WALLS 3 & 4" sheet

| | | |
|------------|---------------------------|--------------------------|
| DESIGN | BY H. Javier Chavez | CHECKED Isacc Tasabia |
| DETAILS | BY Jaime Ramirez | CHECKED H. Javier Chavez |
| QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

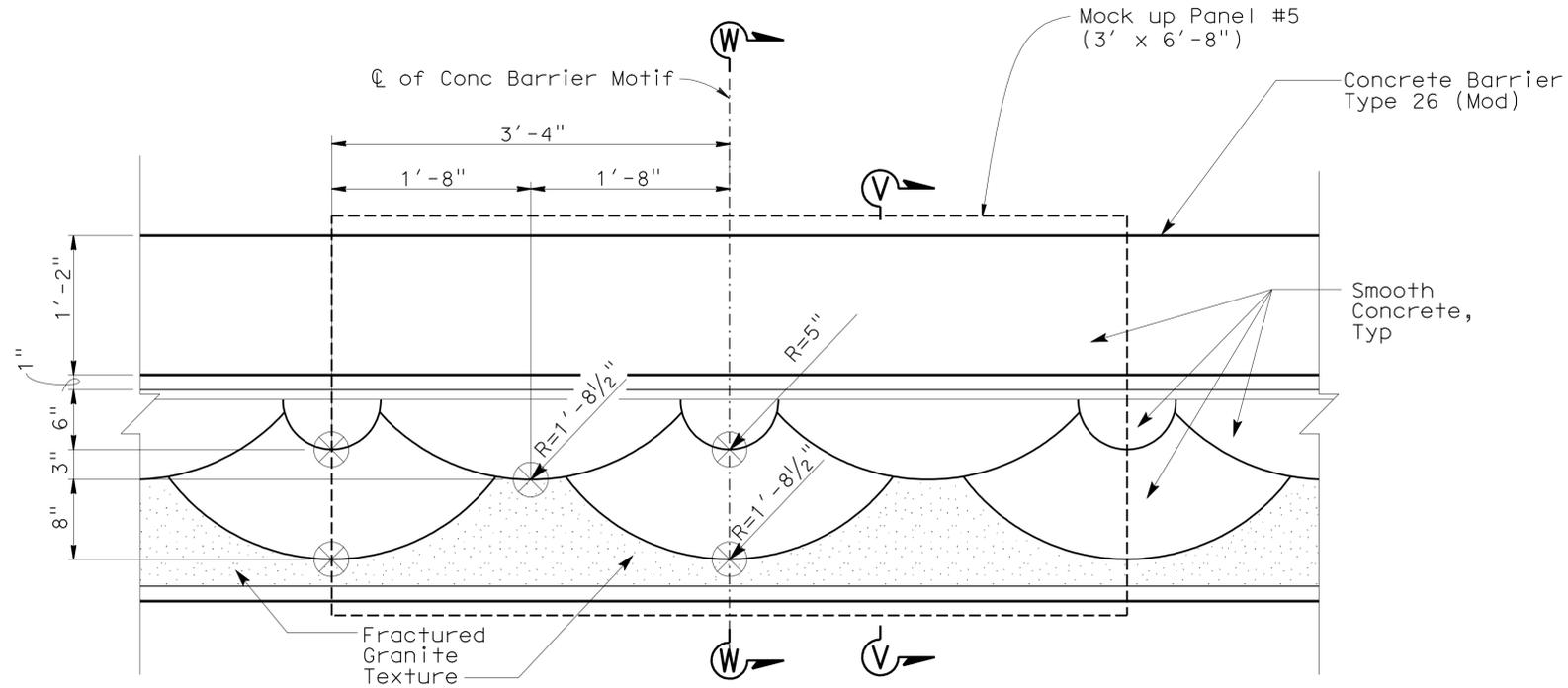
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 11

| | |
|------------|---------|
| BRIDGE NO. | 53-3038 |
| POST MILE | 1.68 |

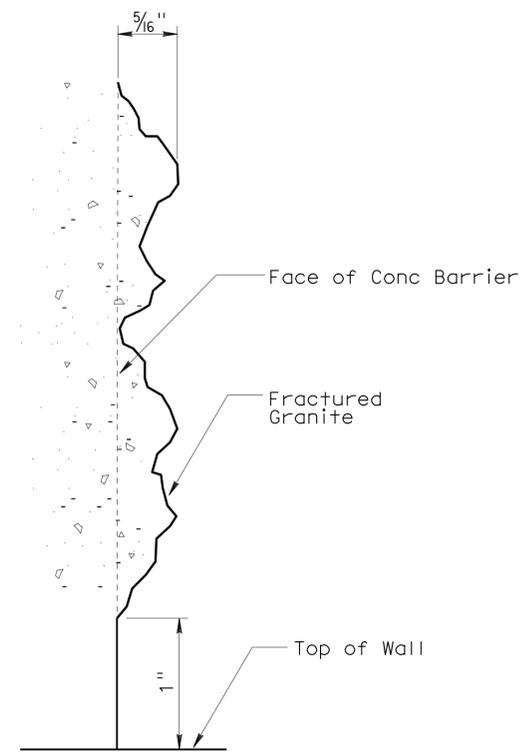
ALONDRA BLVD OC (REPLACE)
SECTIONS AT ABUTMENTS & RETAINING WALLS

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 459 | 602 |

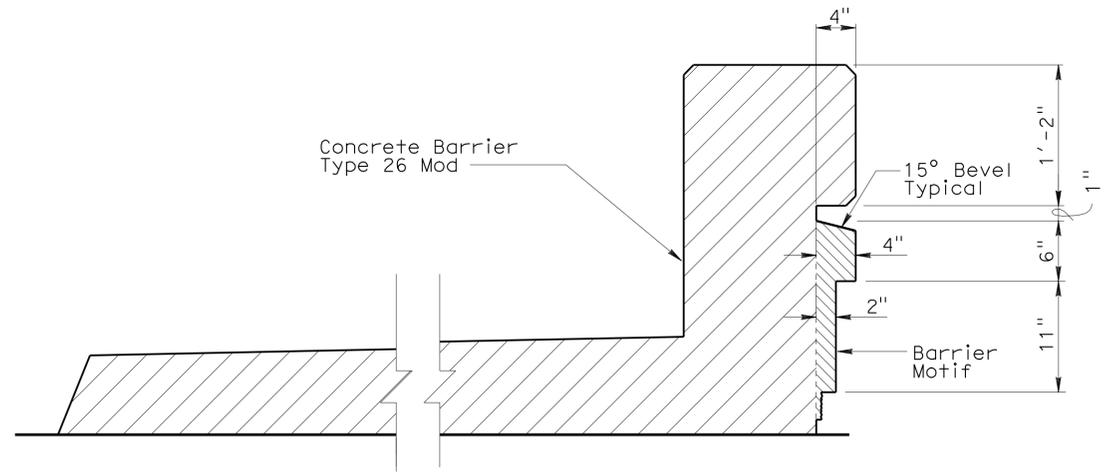
Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 PHU V. NGUYEN
 No. 60358
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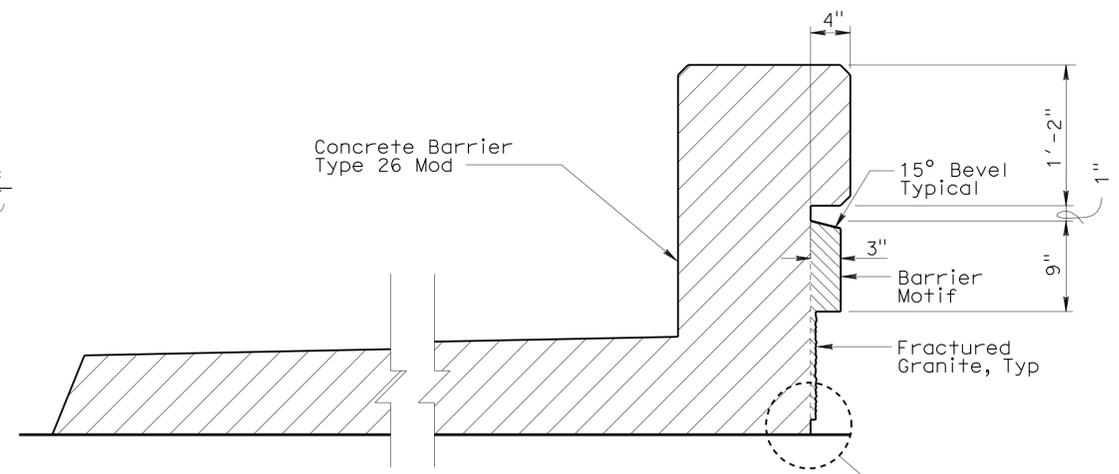
ELEVATION - BARRIER MOTIF
No Scale



DETAIL E
No Scale



SECTION W-W
No Scale



SECTION V-V
No Scale

- LEGEND:**
- Textured concrete surface = split slate texture see "PARTIAL ELEVATIONS AT RETAINING WALLS 1 & 2" sheet
 - Smooth Concrete Surface
 - Secondary Working Point

| | | |
|------------|---------------------------|--------------------------|
| DESIGN | BY H. Javier Chavez | CHECKED Isacc Tasabia |
| DETAILS | BY Jaime Ramirez | CHECKED H. Javier Chavez |
| QUANTITIES | BY Krishnakant Andurlekar | CHECKED Bill Kemp |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

| | |
|------------|---------|
| BRIDGE NO. | 53-3038 |
| POST MILE | 1.68 |

ALONDRA BLVD OC (REPLACE)
BARRIER MOTIF DETAILS

BENCH MARK

BM Y11900 Elev. 68.99'
 L&CALTRANS TAG IN N CB 1' E/O
 BCR @ NE COR VALLEY VIEW AV & ALONDRA BL
 NAVD 88

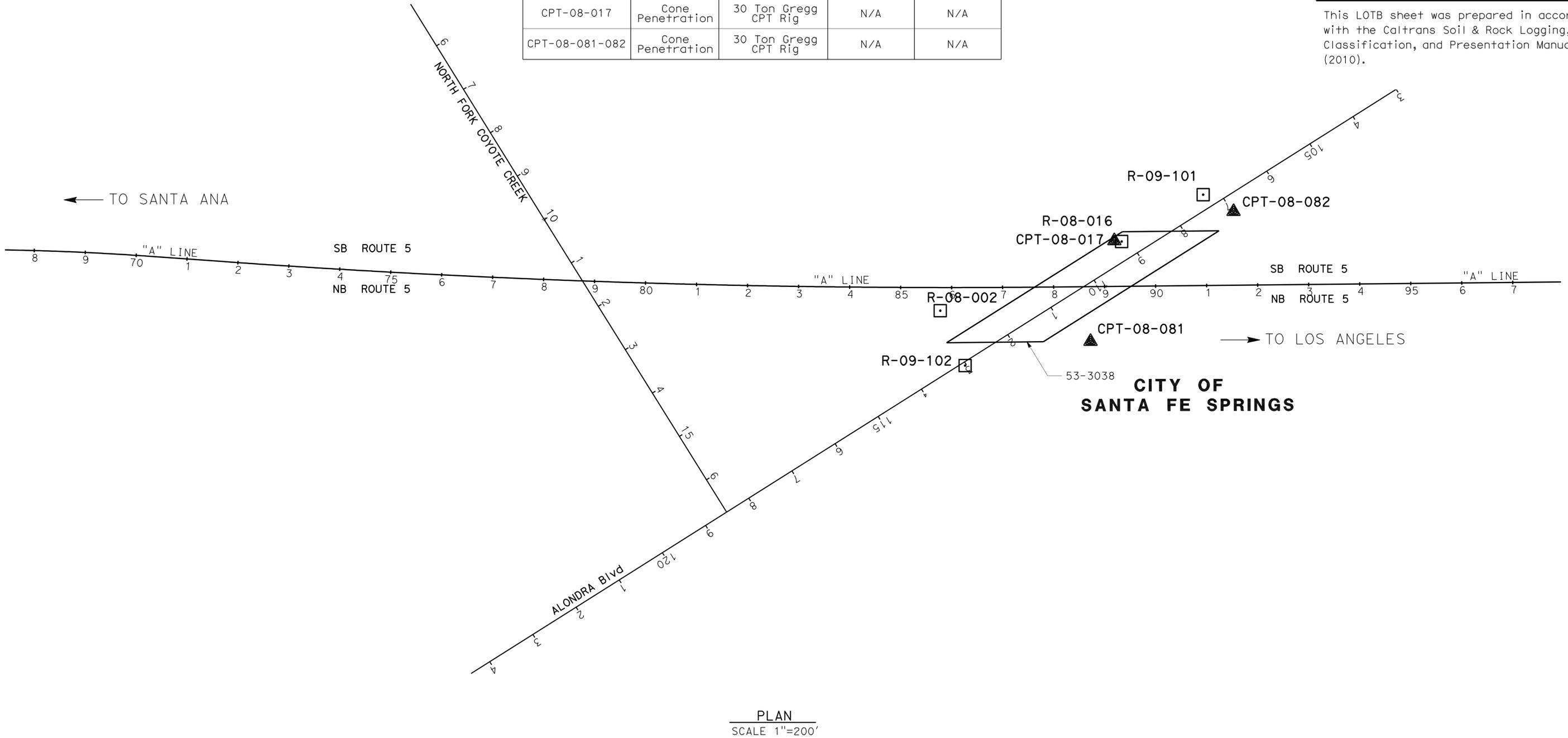
| Borehole Number | Drill Method | Drilling Equipment | Hammer Type | Avg. Hammer Efficiency, ETR (%) |
|-----------------|------------------|----------------------|-------------|---------------------------------|
| R-08-002 | Rotary Wash | Mayhew 1000 | Manual | 63 |
| R-08-016 | Rotary Wash | Mayhew 1000 | Manual | 63 |
| R-09-101-102 | Rotary Wash | Mayhew 1000 | Automatic | 71 |
| CPT-08-017 | Cone Penetration | 30 Ton Gregg CPT Rig | N/A | N/A |
| CPT-08-081-082 | Cone Penetration | 30 Ton Gregg CPT Rig | N/A | N/A |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 460 | 602 |

05/2010
 REGISTERED GEOTECHNICAL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 No. 2738
 Exp. 6/30/11
 STATE OF CALIFORNIA
 GEOTECHNICAL

URS CORPORATION
 2020 EAST FIRST STREET, SUITE 400
 SANTA ANA, CA 92705

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010).



| | | | | | | | | | | | |
|-------------------------------------|--|--------------------------------------------|--|----------------------------|--|-----------------------------------------|--|-------------------------------------------------|--|-----------------------------------------|--|
| ENGINEERING SERVICES | | GEOTECHNICAL SERVICES | | STATE OF CALIFORNIA | | DIVISION OF ENGINEERING SERVICES | | BRIDGE NO. | | ALONDRA BLVD OC (REPLACE) | |
| FUNCTIONAL SUPERVISOR | | DRAWN BY: P.QUACH | | FIELD INVESTIGATION BY: | | STRUCTURE DESIGN | | 53-3038 | | LOG OF TEST BORINGS SHEET 1 OF 7 | |
| NAME: F.MOTAMED | | CHECKED BY: P.YERRA | | P.NARANJO/P.MCDONALD | | DESIGN BRANCH 11 | | POST MILE | | | |
| | | | | | | | | 1.68 | | | |
| 065 CIVIL LOG OF TEST BORINGS SHEET | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | 0 1 2 3 | | CU 59A0590 EA 215911 | | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | REVISION DATES | |
| | | | | | | FILE => 53-3038-z-lotb1of7.dgn | | 5-11-10 3-21-11 | | SHEET 43 OF 49 | |

DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:06
 USERNAME => hpierce

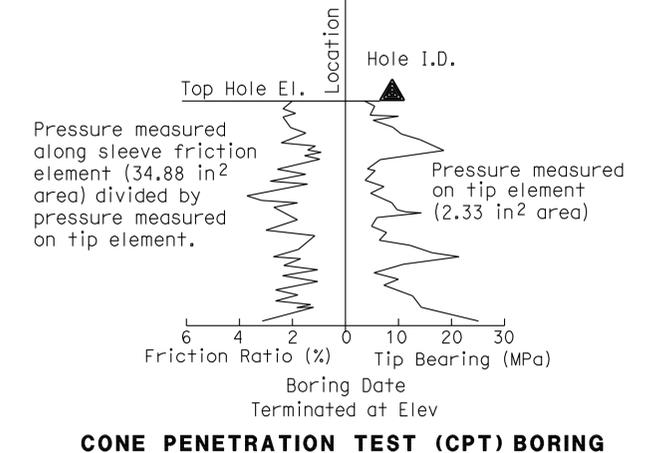
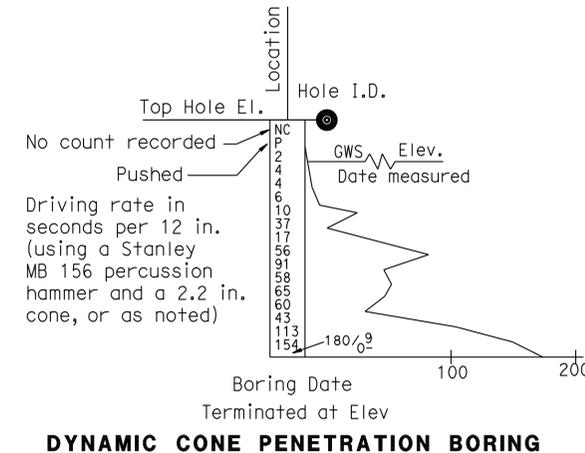
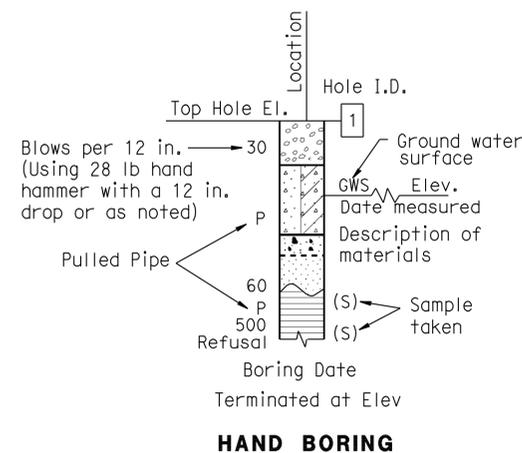
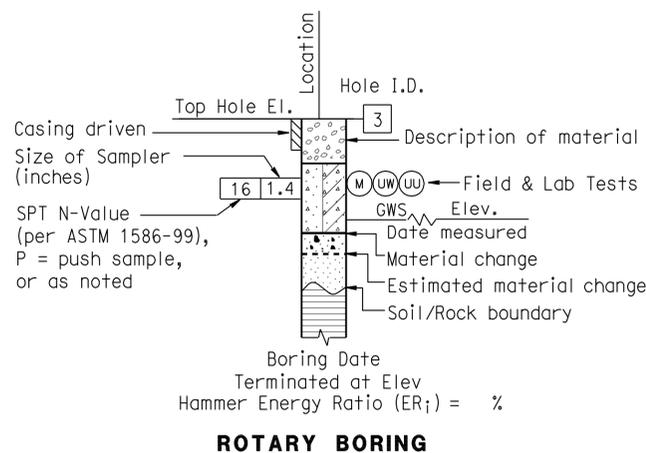
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 URS CORPORATION
 2020 EAST FIRST STREET, SUITE 400
 SANTA ANA, CA 92705

| CEMENTATION | |
|-------------|-------------------------------------------------------------|
| Description | Criteria |
| Weak | Crumbles or breaks with handling or little finger pressure. |
| Moderate | Crumbles or breaks with considerable finger pressure. |
| Strong | Will not crumble or break with finger pressure. |

| BOREHOLE IDENTIFICATION | | |
|-------------------------|-----------|--------------------------------------------------------------|
| Symbol | Hole Type | Description |
| | A | Auger Boring (hollow or solid stem bucket) |
| | R | Rotary drilled boring (conventional) |
| | RW | Rotary drilled with self-casing wire-line |
| | RC | Rotary core with continuously-sampled, self-casing wire-line |
| | P | Rotary percussion boring (air) |
| | R | Rotary drilled diamond core |
| | HD | Hand driven (1-inch soil tube) |
| | HA | Hand Auger |
| | D | Dynamic Cone Penetration Boring |
| | CPT | Cone Penetration Test (ASTM D 5778) |
| | O | Other (note on LOTB) |

Note: Size in inches.

| CONSISTENCY OF COHESIVE SOILS | | | | |
|-------------------------------|----------------------|--------------------------------------------|--------------------------------|-----------------------------------|
| Description | Shear Strength (tsf) | Pocket Penetrometer Measurement, PP, (tsf) | Torvane Measurement, TV, (tsf) | Vane Shear Measurement, VS, (tsf) |
| Very Soft | Less than 0.12 | Less than 0.25 | Less than 0.12 | Less than 0.12 |
| Soft | 0.12 - 0.25 | 0.25 - 0.5 | 0.12 - 0.25 | 0.12 - 0.25 |
| Medium Stiff | 0.25 - 0.5 | 0.5 - 1 | 0.25 - 0.5 | 0.25 - 0.5 |
| Stiff | 0.5 - 1 | 1 - 2 | 0.5 - 1 | 0.5 - 1 |
| Very Stiff | 1 - 2 | 2 - 4 | 1 - 2 | 1 - 2 |
| Hard | Greater than 2 | Greater than 4 | Greater than 2 | Greater than 2 |



05/2010
DATE

REGISTERED GEOTECHNICAL ENGINEER

6-27-11
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No. 2738
Exp. 6/30/11

STATE OF CALIFORNIA

URS CORPORATION
2020 EAST FIRST STREET, SUITE 400
SANTA ANA, CA 92705

| GROUP SYMBOLS AND NAMES | | | |
|-------------------------|-----------------------------------------|----------------|-----------------------------------------|
| Graphic/Symbol | Group Names | Graphic/Symbol | Group Names |
| | Well-graded GRAVEL | | Lean CLAY |
| | Well-graded GRAVEL with SAND | | Lean CLAY with SAND |
| | Poorly-graded GRAVEL | | Lean CLAY with GRAVEL |
| | Poorly-graded GRAVEL with SAND | | SANDY lean CLAY |
| | Well-graded GRAVEL with SILT | | SANDY lean CLAY with GRAVEL |
| | Well-graded GRAVEL with SILT and SAND | | GRAVELLY lean CLAY |
| | Well-graded GRAVEL with CLAY | | GRAVELLY lean CLAY with SAND |
| | (or SILTY CLAY) | | SILTY CLAY |
| | Well-graded GRAVEL with CLAY and SAND | | SILTY CLAY with SAND |
| | (or SILTY CLAY and SAND) | | SILTY CLAY with GRAVEL |
| | Poorly-graded GRAVEL with SILT | | SANDY SILTY CLAY |
| | Poorly-graded GRAVEL with SILT and SAND | | SANDY SILTY CLAY with GRAVEL |
| | Poorly-graded GRAVEL with CLAY | | GRAVELLY SILTY CLAY |
| | (or SILTY CLAY) | | GRAVELLY SILTY CLAY with SAND |
| | Poorly-graded GRAVEL with CLAY and SAND | | SILT |
| | (or SILTY CLAY and SAND) | | SILT with SAND |
| | SILTY GRAVEL | | SILT with GRAVEL |
| | SILTY GRAVEL with SAND | | SANDY SILT |
| | CLAYEY GRAVEL | | SANDY SILT with GRAVEL |
| | CLAYEY GRAVEL with SAND | | GRAVELLY SILT |
| | SILTY, CLAYEY GRAVEL | | GRAVELLY SILT with SAND |
| | SILTY, CLAYEY GRAVEL with SAND | | ORGANIC lean CLAY |
| | Well-graded SAND | | ORGANIC lean CLAY with SAND |
| | Well-graded SAND with GRAVEL | | ORGANIC lean CLAY with GRAVEL |
| | Poorly-graded SAND | | SANDY ORGANIC lean CLAY |
| | Poorly-graded SAND with GRAVEL | | GRAVELLY ORGANIC lean CLAY |
| | Well-graded SAND with SILT | | GRAVELLY ORGANIC lean CLAY with SAND |
| | Well-graded SAND with SILT and GRAVEL | | Elastic SILT |
| | Well-graded SAND with CLAY | | Elastic SILT with SAND |
| | (or SILTY CLAY) | | Elastic SILT with GRAVEL |
| | Well-graded SAND with CLAY and GRAVEL | | SANDY elastic SILT |
| | (or SILTY CLAY and GRAVEL) | | SANDY elastic SILT with GRAVEL |
| | Poorly-graded SAND with SILT | | GRAVELLY elastic SILT |
| | Poorly-graded SAND with SILT and GRAVEL | | GRAVELLY elastic SILT with SAND |
| | Poorly-graded SAND with CLAY | | ORGANIC fat CLAY |
| | (or SILTY CLAY) | | ORGANIC fat CLAY with SAND |
| | Poorly-graded SAND with CLAY and GRAVEL | | ORGANIC fat CLAY with GRAVEL |
| | (or SILTY CLAY and GRAVEL) | | SANDY ORGANIC fat CLAY |
| | SILTY SAND | | SANDY ORGANIC fat CLAY with GRAVEL |
| | SILTY SAND with GRAVEL | | GRAVELLY ORGANIC fat CLAY |
| | CLAYEY SAND | | GRAVELLY ORGANIC fat CLAY with SAND |
| | CLAYEY SAND with GRAVEL | | ORGANIC elastic SILT |
| | SILTY, CLAYEY SAND | | ORGANIC elastic SILT with SAND |
| | SILTY, CLAYEY SAND with GRAVEL | | ORGANIC elastic SILT with GRAVEL |
| | PEAT | | SANDY ORGANIC elastic SILT |
| | COBBLES | | SANDY ORGANIC elastic SILT with GRAVEL |
| | COBBLES and BOULDERS | | GRAVELLY ORGANIC elastic SILT |
| | BOULDERS | | GRAVELLY ORGANIC elastic SILT with SAND |

| FIELD AND LABORATORY TESTING | |
|------------------------------|----------------------------------------------------------------------------------------|
| (C) | Consolidation (ASTM D 2435) |
| (CL) | Collapse Potential (ASTM D 5333) |
| (CP) | Compaction Curve (CTM 216) |
| (CR) | Corrosivity Testing (CTM 643, CTM 422, CTM 417) |
| (CU) | Consolidated Undrained Triaxial (ASTM D 4767) |
| (DS) | Direct Shear (ASTM D 3080) |
| (EI) | Expansion Index (ASTM D 4829) |
| (M) | Moisture Content (ASTM D 2216) |
| (OC) | Organic Content-% (ASTM D 2974) |
| (P) | Permeability (CTM 220) |
| (PA) | Particle Size Analysis (ASTM D 422) |
| (PI) | Plasticity Index (AASHTO T 90) Liquid Limit (AASHTO T 89) |
| (PL) | Point Load Index (ASTM D 5731) |
| (PM) | Pressure Meter |
| (R) | R-Value (CTM 301) |
| (SE) | Sand Equivalent (CTM 217) |
| (SG) | Specific Gravity (AASHTO T 100) |
| (SL) | Shrinkage Limit (ASTM D 427) |
| (SW) | Swell Potential (ASTM D 4546) |
| (UC) | Unconfined Compression-Soil (ASTM D 2166) Unconfined Compression-Rock (ASTM D 2938) |
| (UU) | Unconsolidated Undrained Triaxial (ASTM D 2850) |
| (UW) | Unit Weight (ASTM D 4767) |

| APPARENT DENSITY OF COHESIONLESS SOILS | |
|----------------------------------------|--------------------------------------|
| Description | SPT N ₆₀ (Blows / 12 in.) |
| Very Loose | 0 - 5 |
| Loose | 5 - 10 |
| Medium Dense | 10 - 30 |
| Dense | 30 - 50 |
| Very Dense | Greater than 50 |

| MOISTURE | |
|-------------|-------------------------------------|
| Description | Criteria |
| Dry | No discernable moisture |
| Moist | Moisture present, but no free water |
| Wet | Visible free water |

| PERCENT OR PROPORTION OF SOILS | |
|--------------------------------|--------------------------------------------------------|
| Description | Criteria |
| Trace | Particles are present but estimated to be less than 5% |
| Few | 5% - 10% |
| Little | 15% - 25% |
| Some | 30% - 45% |
| Mostly | 50% - 100% |

| PARTICLE SIZE | | |
|---------------|-----------------|--------------|
| Description | Size (in.) | |
| Boulder | Greater than 12 | |
| Cobble | 3 - 12 | |
| Gravel | Coarse | 3/4 - 3 |
| | Fine | 1/5 - 3/4 |
| Sand | Coarse | 1/16 - 1/5 |
| | Medium | 1/64 - 1/16 |
| | Fine | 1/300 - 1/64 |
| Silt and Clay | Less than 1/300 | |

| | | | | | | | | | | | |
|-------------------------------------|--|--------------------------------------------|--|----------------------------|--|-----------------------------------------|--|-------------------|--|----------------------------------|--|
| ENGINEERING SERVICES | | GEOTECHNICAL SERVICES | | STATE OF CALIFORNIA | | DIVISION OF ENGINEERING SERVICES | | BRIDGE NO. | | ALONDRA BLVD OC (REPLACE) | |
| FUNCTIONAL SUPERVISOR | | DRAWN BY: P.QUACH | | FIELD INVESTIGATION BY: | | STRUCTURE DESIGN | | 53-3038 | | LOG OF TEST BORINGS SHEET 3 OF 7 | |
| NAME: F.MOTAMED | | CHECKED BY: P.YERRA | | P.NARANJO/P.MCDONALD | | DESIGN BRANCH 11 | | POST MILE | | REVISION DATES | |
| 065 CIVIL LOG OF TEST BORINGS SHEET | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | 0 1 2 3 | | CU 59A0590 EA 215911 | | 1.68 | | 5-17-10 3-21-11 | |
| FILE => 53-3038-z-1otb3of7.dgn | | | | | | | | | | SHEET 45 OF 49 | |

DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:07 USERNAME => hpfrice

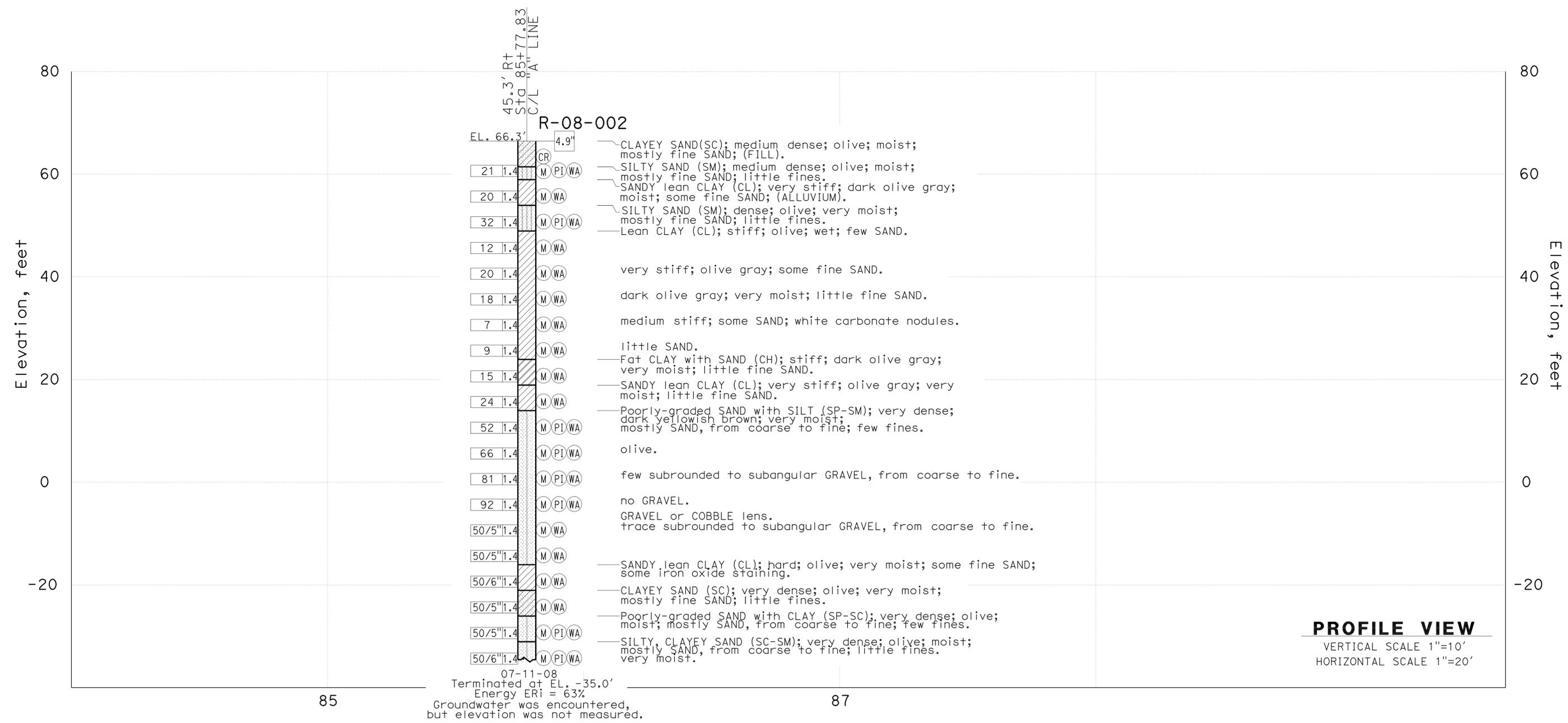
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 463 | 602 |

05/2010
 REGISTERED GEOTECHNICAL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 FARID MOTAMED
 No. 2738
 Exp. 6/30/11
 REGISTERED PROFESSIONAL ENGINEER
 GEOTECHNICAL
 STATE OF CALIFORNIA
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URS CORPORATION
 2020 EAST FIRST STREET, SUITE 400
 SANTA ANA, CA 92705

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FOR PLAN VIEW, SEE "LOG OF TEST BORINGS" 1 OF 7



PROFILE VIEW
VERTICAL SCALE 1"=10'
HORIZONTAL SCALE 1"=20'

| | | | | | | | | | | | |
|-------------------------------------|--|--------------------------------------------|--|------------------------------|--|-------------------------------------------------|--|-------------------|--|-----------------------------------------|--|
| ENGINEERING SERVICES | | GEOTECHNICAL SERVICES | | STATE OF CALIFORNIA | | DIVISION OF ENGINEERING SERVICES | | BRIDGE NO. | | ALONDRA BLVD OC (REPLACE) | |
| FUNCTIONAL SUPERVISOR | | DRAWN BY: P.QUACH | | DEPARTMENT OF TRANSPORTATION | | STRUCTURE DESIGN | | 53-3038 | | LOG OF TEST BORINGS SHEET 4 OF 7 | |
| NAME: F.MOTAMED | | CHECKED BY: P.YERRA | | P.NARANJO/P.MCDONALD | | DESIGN BRANCH 11 | | POST MILE | | | |
| | | | | | | | | 1.68 | | | |
| 065 CIVIL LOG OF TEST BORINGS SHEET | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | CU 59A0590 EA 215911 | | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | REVISION DATES | | SHEET 46 OF 49 | |
| | | | | 0 1 2 3 | | 5-17-10 3-21-11 | | | | | |

DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:07 USERNAME => hpierce

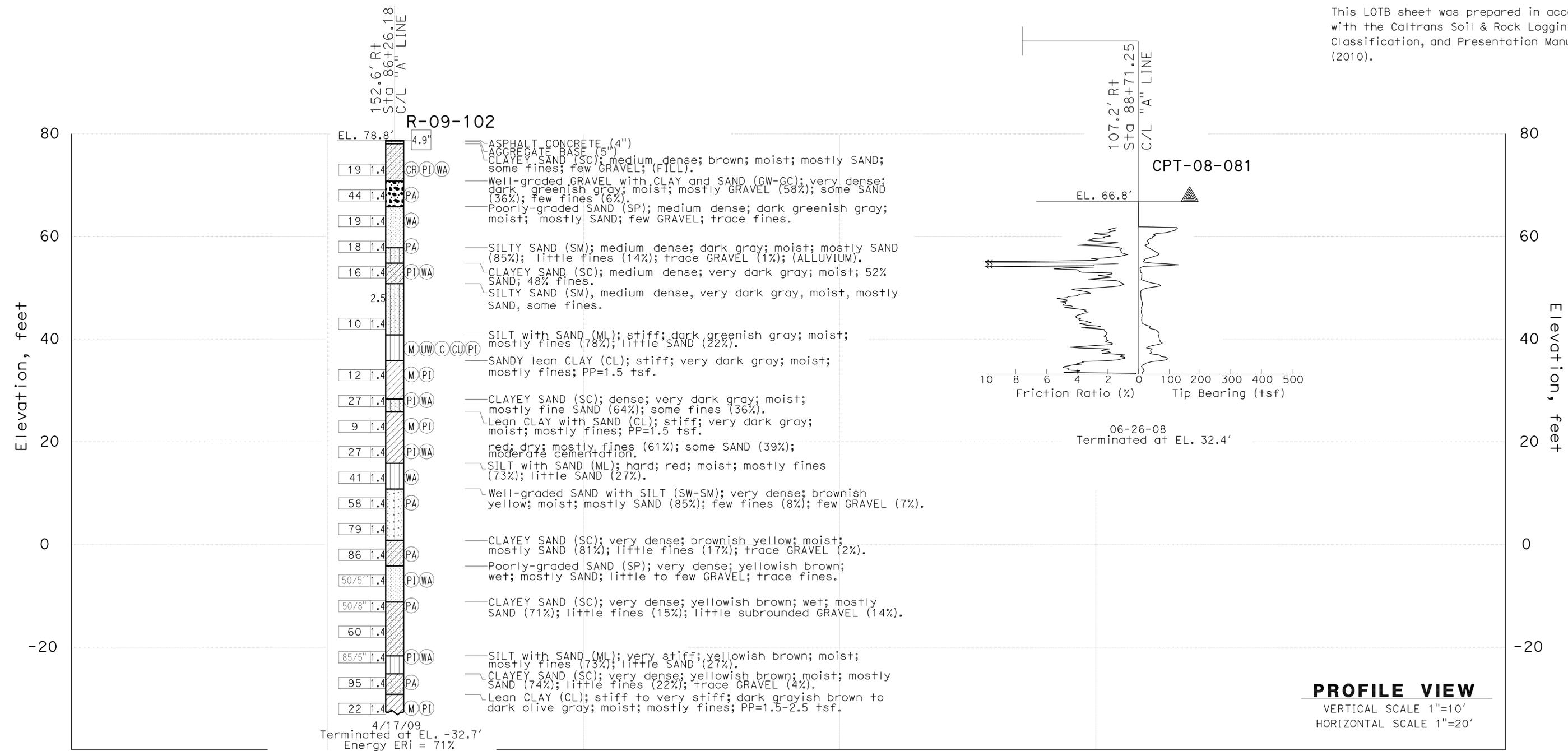
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 464 | 602 |

Farid Motamed 05/2010
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 6-27-11
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URS CORPORATION
 2020 EAST FIRST STREET, SUITE 400
 SANTA ANA, CA 92705

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FOR PLAN VIEW, SEE
 "LOG OF TEST BORINGS" 1 OF 7



PROFILE VIEW
 VERTICAL SCALE 1"=10'
 HORIZONTAL SCALE 1"=20'

| | | | | | | | | | | | |
|-------------------------------------|--|--------------------------------------------|--|----------------------------|--|-------------------------------------------------|--|-------------------|--|-----------------------------------------|--|
| ENGINEERING SERVICES | | GEOTECHNICAL SERVICES | | STATE OF CALIFORNIA | | DIVISION OF ENGINEERING SERVICES | | BRIDGE NO. | | ALONDRA BLVD OC (REPLACE) | |
| FUNCTIONAL SUPERVISOR | | DRAWN BY: P.QUACH | | FIELD INVESTIGATION BY: | | STRUCTURE DESIGN | | 53-3038 | | LOG OF TEST BORINGS SHEET 5 OF 7 | |
| NAME: F.MOTAMED | | CHECKED BY: P.YERRA | | P.NARANJO/P.MCDONALD | | DESIGN BRANCH 11 | | POST MILE | | | |
| | | | | | | | | 1.68 | | | |
| 06S CIVIL LOG OF TEST BORINGS SHEET | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | CU 59A0590 EA 215911 | | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | REVISION DATES | | SHEET OF | |
| | | | | | | | | 5-17-10 3-21-11 | | 47 49 | |

USERNAME => hpierce DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:07

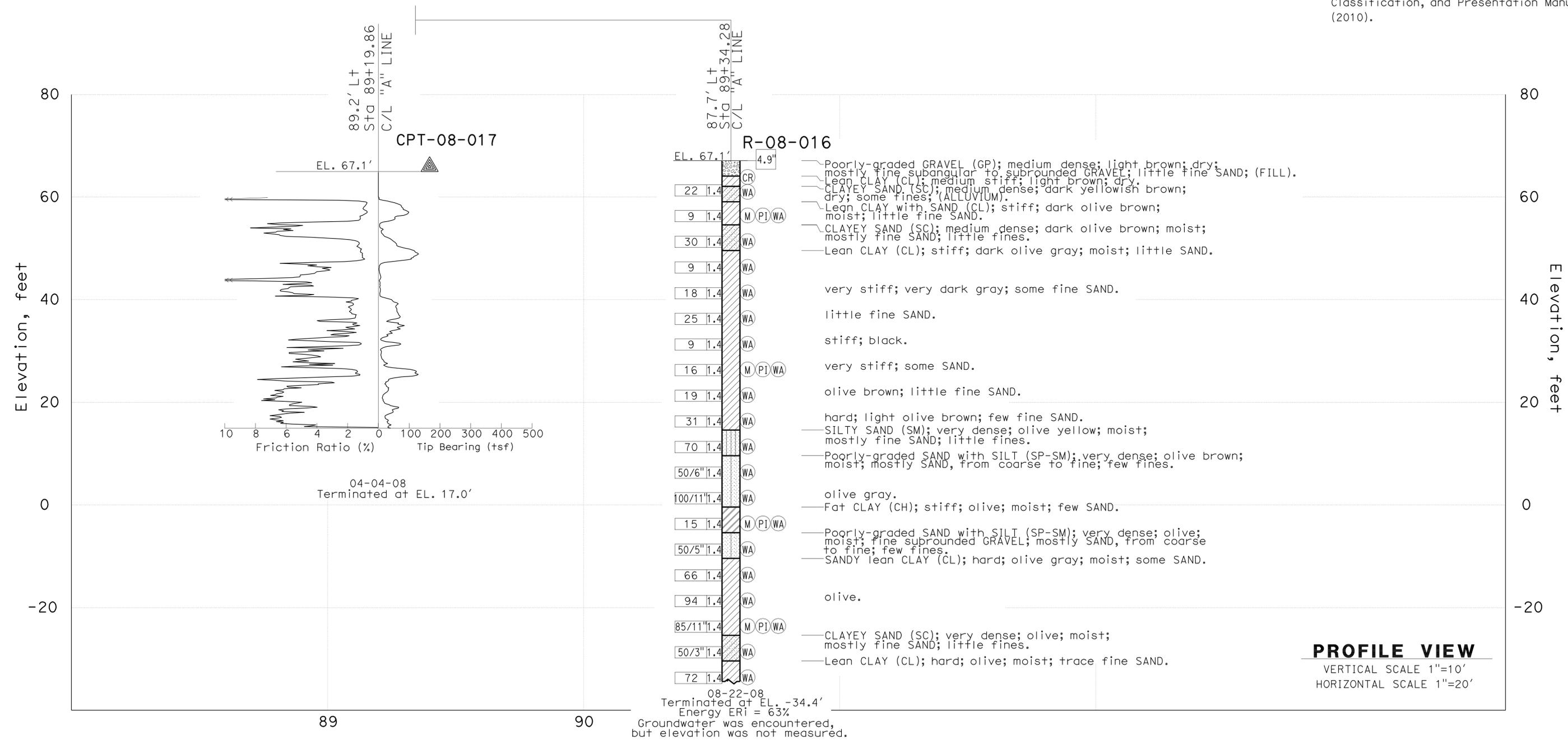
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 465 | 602 |

Farid Motamed 05/2010
 REGISTERED GEOTECHNICAL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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URS CORPORATION
 2020 EAST FIRST STREET, SUITE 400
 SANTA ANA, CA 92705

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FOR PLAN VIEW, SEE "LOG OF TEST BORINGS" 1 OF 7



PROFILE VIEW
 VERTICAL SCALE 1"=10'
 HORIZONTAL SCALE 1"=20'

| | | | | | | | | | | | |
|-------------------------------------|--|--------------------------------------------|--|----------------------------|--|-------------------------------------------------|--|-------------------|--|-----------------------------------------|--|
| ENGINEERING SERVICES | | GEOTECHNICAL SERVICES | | STATE OF CALIFORNIA | | DIVISION OF ENGINEERING SERVICES | | BRIDGE NO. | | ALONDRA BLVD OC (REPLACE) | |
| FUNCTIONAL SUPERVISOR | | DRAWN BY: P.QUACH | | FIELD INVESTIGATION BY: | | STRUCTURE DESIGN | | 53-3038 | | LOG OF TEST BORINGS SHEET 6 OF 7 | |
| NAME: F.MOTAMED | | CHECKED BY: P.YERRA | | P.NARANJO/P.MCDONALD | | DESIGN BRANCH 11 | | POST MILE | | | |
| | | | | | | | | 1.68 | | | |
| 065 CIVIL LOG OF TEST BORINGS SHEET | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | CU 59A0590 EA 215911 | | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | REVISION DATES | | SHEET 48 OF 49 | |

DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:07
 USERNAME => hpfrnce

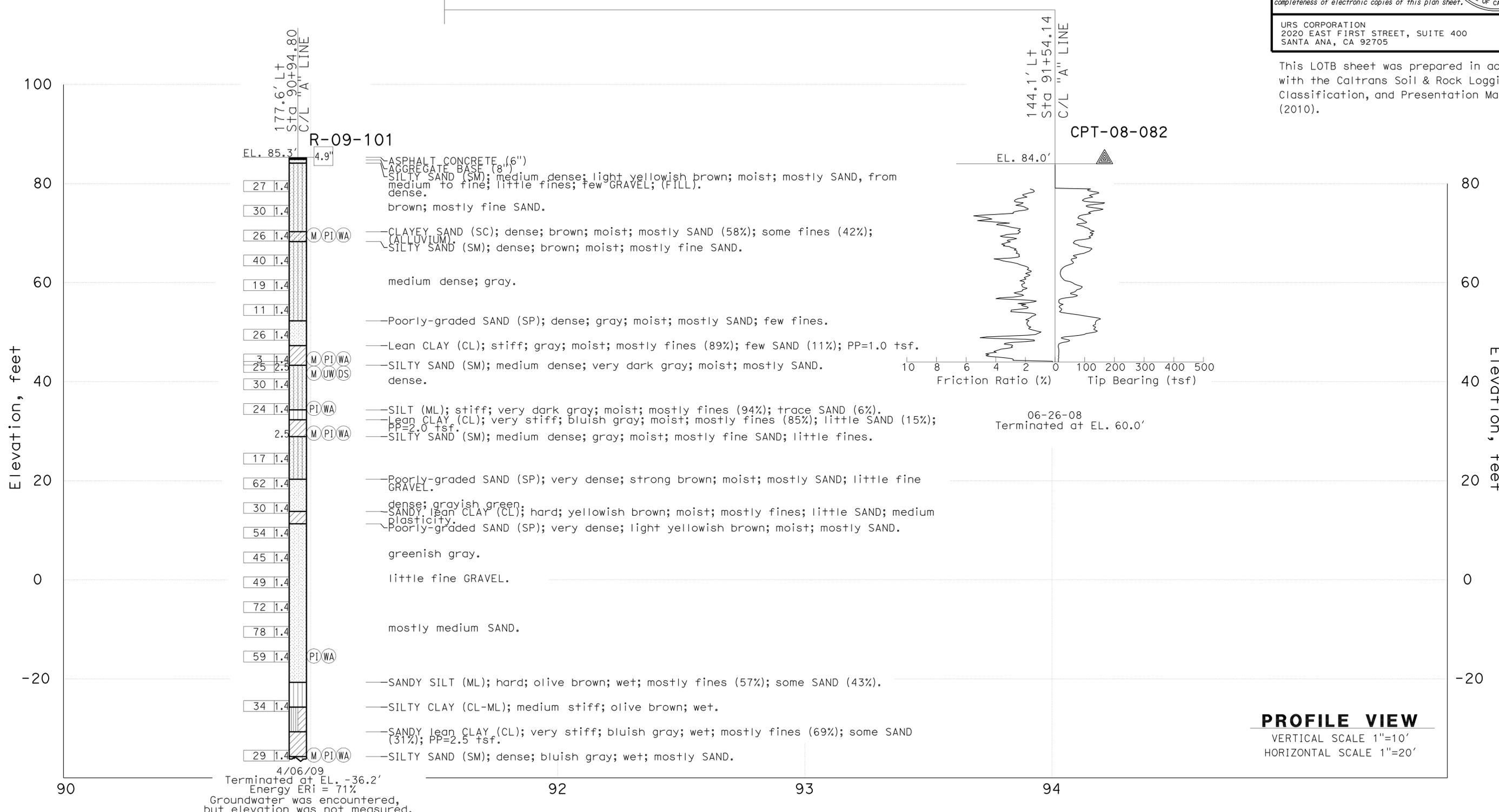
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
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| 07 | LA | 5 | 1.2/2.1 | 466 | 602 |

Farid Motamed 05/2010
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 No. 2738
 Exp. 6/30/11
 FARID MOTAMED
 REGISTERED PROFESSIONAL ENGINEER
 GEOTECHNICAL
 STATE OF CALIFORNIA

URS CORPORATION
 2020 EAST FIRST STREET, SUITE 400
 SANTA ANA, CA 92705

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FOR PLAN VIEW, SEE "LOG OF TEST BORINGS" 1 OF 7



PROFILE VIEW
VERTICAL SCALE 1"=10'
HORIZONTAL SCALE 1"=20'

| | | | | | | | | | | | |
|-------------------------------------|--|--------------------------------------------|--|------------------------------|--|-------------------------------------------------|--|-------------------|--|-----------------------------------------|--|
| ENGINEERING SERVICES | | GEOTECHNICAL SERVICES | | STATE OF CALIFORNIA | | DIVISION OF ENGINEERING SERVICES | | BRIDGE NO. | | ALONDRA BLVD OC (REPLACE) | |
| FUNCTIONAL SUPERVISOR | | DRAWN BY: P.QUACH | | DEPARTMENT OF TRANSPORTATION | | STRUCTURE DESIGN | | 53-3038 | | LOG OF TEST BORINGS SHEET 7 OF 7 | |
| NAME: F.MOTAMED | | CHECKED BY: P.YERRA | | P.NARANJO/P.MCDONALD | | DESIGN BRANCH 11 | | POST MILE | | | |
| | | | | | | | | 1.68 | | | |
| 06S CIVIL LOG OF TEST BORINGS SHEET | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | CU 59A0590 EA 215911 | | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | REVISION DATES | | SHEET 49 OF 49 | |
| | | | | 0 1 2 3 | | 5-17-10 3-21-11 | | | | | |

DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:07 USERNAME => hpierce

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 467 | 602 |

REGISTERED CIVIL ENGINEER
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE

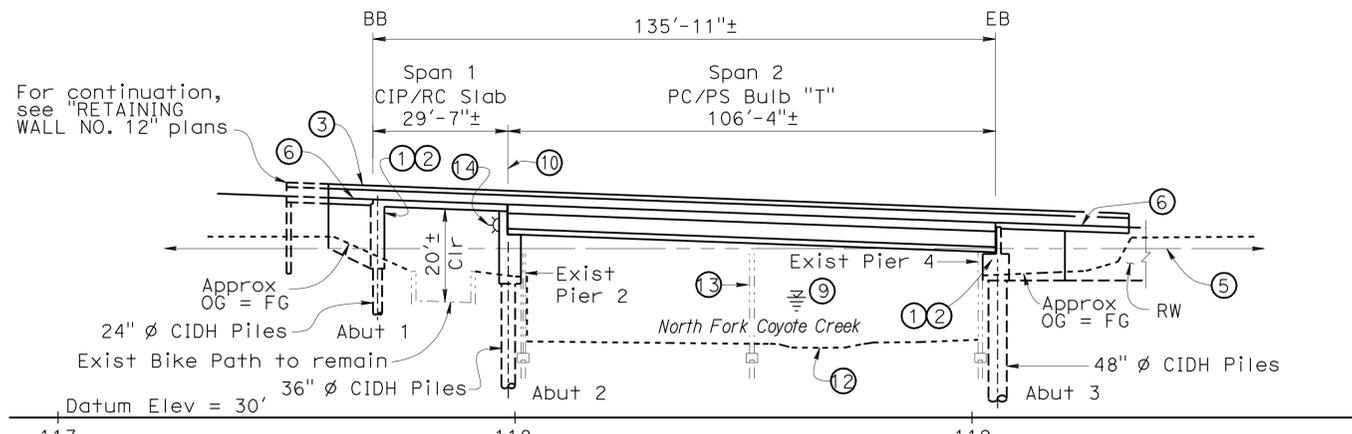
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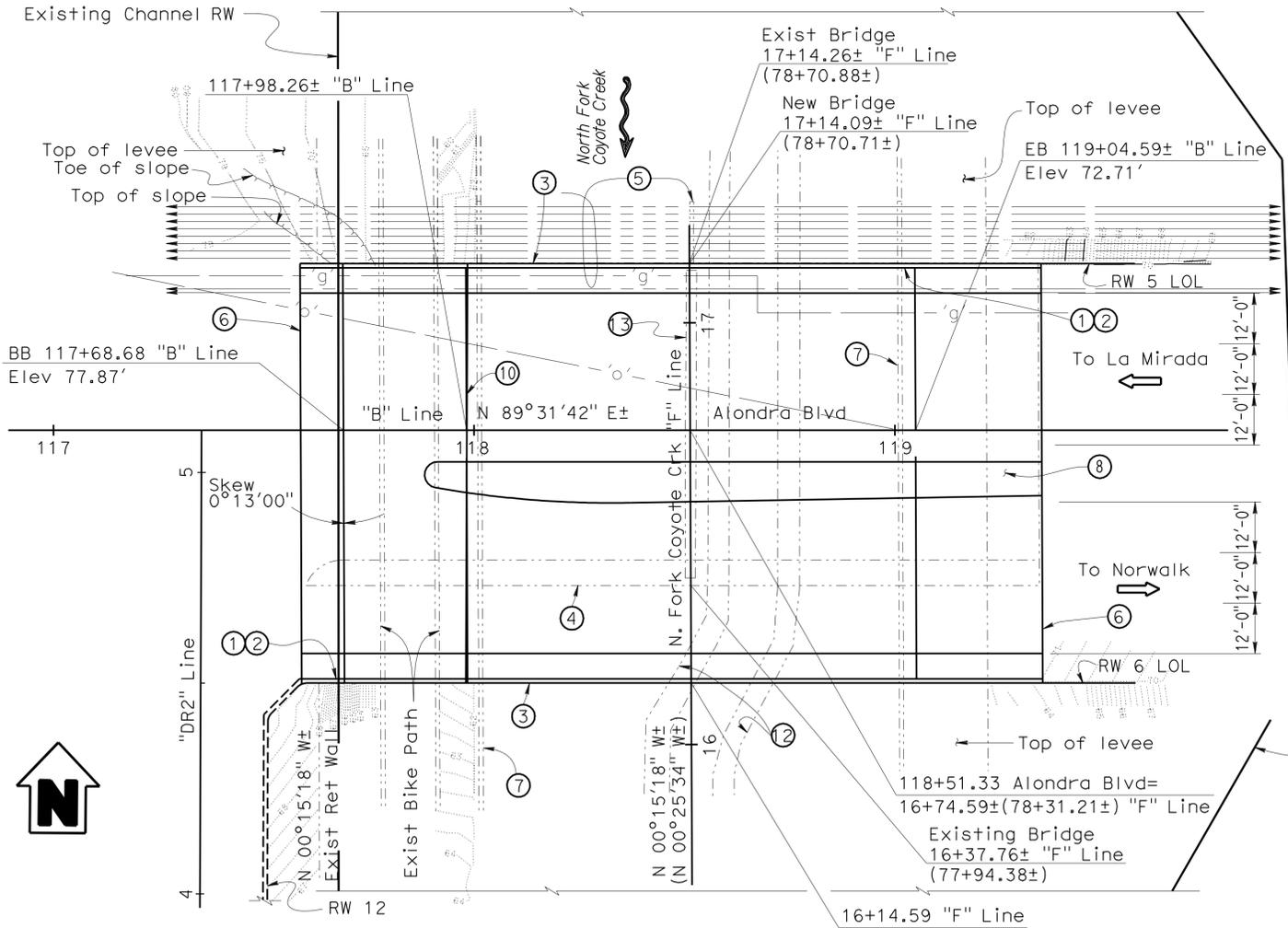
- Paint "N. FORK COYOTE CREEK BR."
- Paint "53C2185"
- Conc Barrier, Type 26 Mod with Sidewalk
- Remove exist superstructure
- Exist utilities and support structure to remain undamaged
- Structure Approach Type N(30S)
- Exist Channel wall, see "Army Corps of Engineers" plans
- Raised Median
- See 'Hydrologic Summary' on "FOUNDATION PLAN" sheet
- Joint Seal at Abutment 2.
- Utility openings, see Standard Plans B11-54 and "ROAD PLANS"
- Exist Low Flow Channel
- Exist Pier 3 to be removed. Portion to be rebuilt as utility support. See "PIER 3 REMOVE AND REPLACE (PARTIAL)" sheet
- Lighting, see "ROAD PLANS"
- Bracing/shoring is required at existing piers prior to bridge removal and during bridge construction
- For General Notes and Index to Plans, see "INDEX TO PLANS" sheet
- For 'Pile Data Table', see "SPAN 2 TYPICAL SECTION" sheet
- "F" line stations and bearings in parenthesis indicates original channel AS-Built stations and bearings, and are for informational purposes only

LEGEND:

- Indicates Existing Structure
- Indicates New Structure
- Indicates LA county flood control right of way

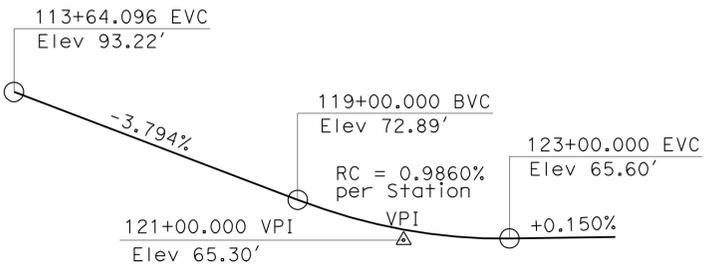


ELEVATION
1"=20'-0"

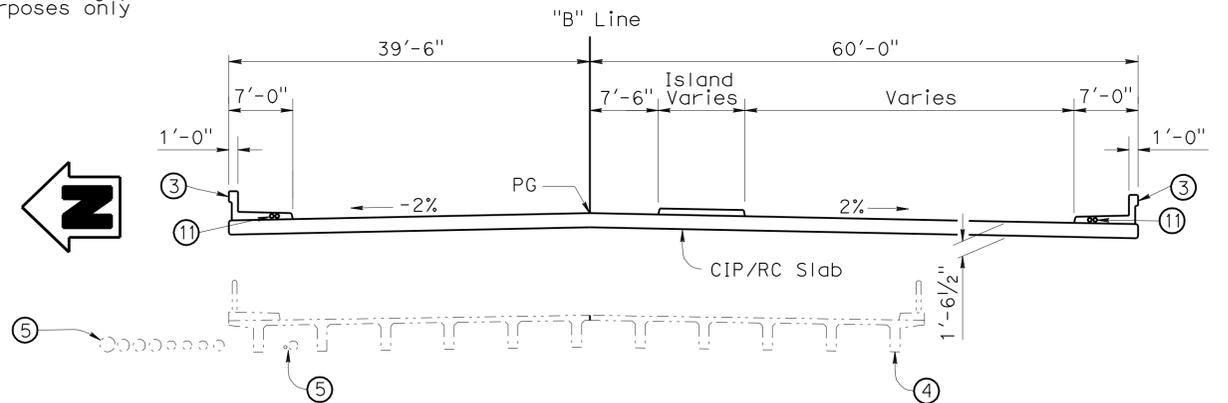


PLAN
1"=20'-0"

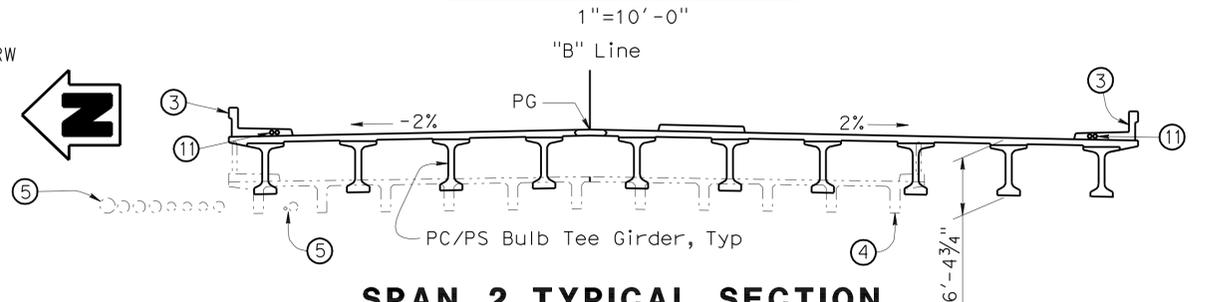
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



PROFILE GRADE
No Scale



SPAN 1 TYPICAL SECTION (LOOKING EAST)
1"=10'-0"



SPAN 2 TYPICAL SECTION (LOOKING EAST)
1"=10'-0"

| | | | | | |
|----------------------------------|------------|-------------------|------------------------|---------------------------------|-------------------------------------------------------|
| RAMIN RASHEDI DESIGN ENGINEER | DESIGN | BY Jay Posey | CHECKED Greg Jones | LOAD & RESISTANCE FACTOR DESIGN | LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE |
| | DETAILS | BY Tom Bittermann | CHECKED Greg Jones | LAYOUT | BY Jay Posey |
| | QUANTITIES | BY Jay Posey | CHECKED Antonio Picazo | SPECIFICATIONS | BY Theresa Nedwick |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 11

BRIDGE NO. 53C2185
 POST MILE 1.51

N. FORK COYOTE CRK BR (REPLACEMENT)
GENERAL PLAN

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 468 | 602 |

3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

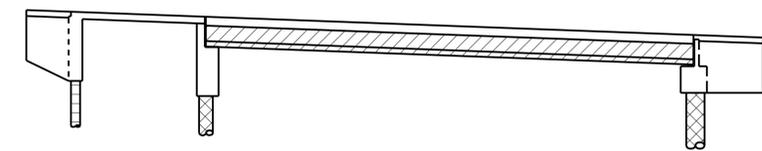
INDEX TO PLANS

| Sheet No. | Title |
|-----------|----------------------------------------|
| 1 | GENERAL PLAN |
| 2 | INDEX TO PLANS |
| 3 | DECK CONTOUR |
| 4 | FOUNDATION PLAN |
| 5 | ABUTMENT 1 LAYOUT |
| 6 | ABUTMENT 2 LAYOUT |
| 7 | ABUTMENT 3 LAYOUT |
| 8 | ABUTMENT DETAILS NO.1 |
| 9 | ABUTMENT DETAILS NO.2 |
| 10 | ABUTMENT DETAILS NO.3 |
| 11 | PIER 2 & 4 CONCRETE REMOVAL (PARTIAL) |
| 12 | PIER 3 REMOVE & REPLACE (PARTIAL) |
| 13 | SPAN 1 TYPICAL SECTION |
| 14 | SPAN 2 TYPICAL SECTION |
| 15 | MEDIAN DETAILS |
| 16 | PC/PS BULB-TEE GIRDER (HARPED STRANDS) |
| 17 | PC/PS BULB-TEE GIRDER MISC DETAILS |
| 18 | GIRDER LAYOUT |
| 19 | SLAB REINFORCEMENT |
| 20 | STRUCTURE APPROACH, ABUTMENT 1 |
| 21 | STRUCTURE APPROACH TYPE N(30S) |
| 22 | STRUCTURE APPROACH DRAINAGE DETAILS |
| 23 | ARCHITECTURAL TREATMENT DETAILS NO. 1 |
| 24 | ARCHITECTURAL TREATMENT DETAILS NO. 2 |
| 25 | BARRIER MOTIF DETAILS |
| 26 | LOG OF TEST BORING 1 OF 5 |
| 27 | LOG OF TEST BORING 2 OF 5 |
| 28 | LOG OF TEST BORING 3 OF 5 |
| 29 | LOG OF TEST BORING 4 OF 5 |
| 30 | LOG OF TEST BORING 5 OF 5 |

STANDARD PLANS Dated May 2006

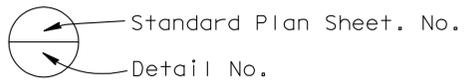
| | |
|-----------|--------------------------------------------------------|
| A10A | ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2) |
| A10B | ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2) |
| A10C | SYMBOLS (SHEET 1 OF 2) |
| A10D | SYMBOLS (SHEET 2 OF 2) |
| A62-C | LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE |
| RSP A87A | CURBS AND DRIVEWAYS |
| B0-1 | BRIDGE DETAILS |
| B0-5 | BRIDGE DETAILS |
| B0-13 | BRIDGE DETAILS |
| B6-10 | UTILITY OPENINGS, T-BEAM |
| RSP B6-21 | JOINT SEALS (MAXIMUM MOVEMENT RATING=2") |
| B7-1 | BOX GIRDER DETAILS |
| B7-10 | UTILITY OPENING BOX GIRDER |
| B11-54 | CONCRETE BARRIER TYPE 26 |

- Structure Concrete, Bridge
- CIDH Pile (4,000 psi @ 28 days)
- CIDH Pile (3,600 psi @ 28 days)
- PC/PS Concrete Girder. See "PC/PS BULB-T GIRDER(HARPED STRANDS)" sheet

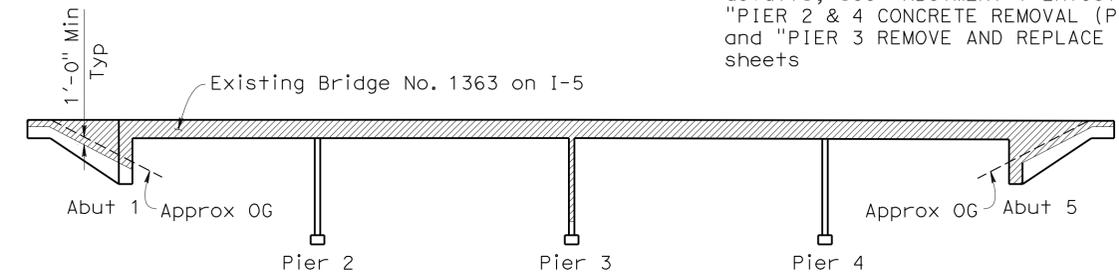


CONCRETE STRENGTH AND TYPE LIMITS

No Scale



Indicates Limits of Payment for bridge removal. For additional limits and details, see "ABUTMENT 1 LAYOUT", "PIER 2 & 4 CONCRETE REMOVAL (PARTIAL)" and "PIER 3 REMOVE AND REPLACE (PARTIAL)" sheets



BRIDGE REMOVAL

No Scale

Note: Barrier not shown

GENERAL NOTES LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:
AASHTO LRFD Bridge Design Specification, 4th edition with the 2007 Interims and the California Amendments v 4

SEISMIC DESIGN:
Caltrans Seismic Design Criteria (SDC), Version 1.4 dated June 2006

DEAD LOAD:
Includes 35 psf for future wearing surface.
The deck dead load between the girders has been increased by a factor of 10 percent to allow for the use of steel deck forms

LIVE LOADING:
HL93 w/'Low Boy' and permit design load

SEISMIC LOADING:
Modified SDC Acceleration Response Spectra (ARC) Curve as shown on "SPAN 2 TYPICAL SECTION" sheet
Soil Profile Type: D
Magnitude: 7.25
Peak Rock Acceleration: 0.6g

CONCRETE:
f_y = 60 ksi
f'_c = 3.6 ksi (3,600 psi @ 28 days)
n = 8
See 'Prestressing Notes' on "PC/PS BULB-TEE GIRDER (HARPED STRANDS)" sheet

| QUANTITIES | |
|------------------------------------------------------------------|------------|
| TEMPORARY SUPPORT | LUMP SUM |
| BRIDGE REMOVAL, LOCATION C | LUMP SUM |
| STRUCTURE EXCAVATION (BRIDGE) | 155 CY |
| STRUCTURE BACKFILL (BRIDGE) | 112 CY |
| STRUCTURE BACKFILL (SLURRY CEMENT) | 62 CY |
| GEOSYNTHETIC REINFORCED EMBANKMENT | 1,075 SQFT |
| 24" CAST-IN-DRILLED-HOLE CONCRETE PILING | 957 LF |
| 36" CAST-IN-DRILLED-HOLE CONCRETE PILING | 885 LF |
| 48" CAST-IN-DRILLED-HOLE CONCRETE PILING | 499 LF |
| CONCRETE CURB (TYPE A3-8) | 32 CY |
| STRUCTURAL CONCRETE, BRIDGE | 1,135 CY |
| STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N) | 148 CY |
| ARCHITECTURAL TREATMENT | 2,600 SQFT |
| ARCHITECTURAL SURFACE (BARRIER) | 645 SQFT |
| ROCK BLANKET | 144 SQYD |
| DRILL AND BOND DOWEL | 376 LF |
| FURNISH PRECAST PRESTRESSED CONCRETE BULB-TEE GIRDER (100'-110") | 10 EA |
| ERECT PRECAST CONCRETE GIRDER | 10 EA |
| JOINT SEAL (MR 1/2") | 100 LF |
| JOINT SEAL (MR 1") | 199 LF |
| BAR REINFORCING STEEL (BRIDGE) | 316,500 LB |
| HEADED BAR REINFORCEMENT | 108 EA |
| CONCRETE BARRIER (TYPE 26 MODIFIED) | 352 LF |

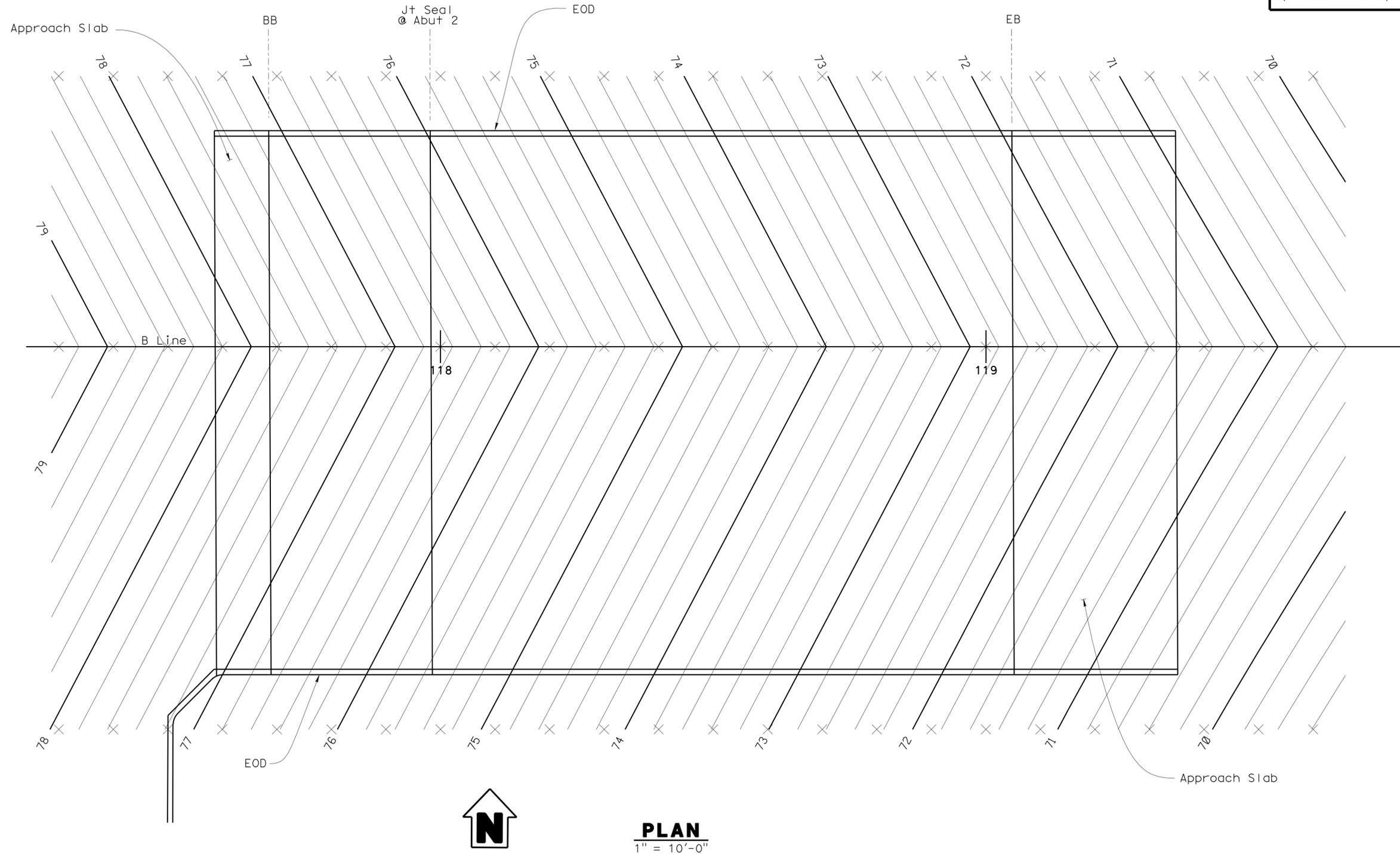
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------|-----------------|--------------------|--------------------------------------------------------------------------|--------------|------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------|
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">DESIGN</td> <td style="width: 30%;">BY Jay Posey</td> <td style="width: 30%;">CHECKED Greg Jones</td> </tr> <tr> <td>DETAILS</td> <td>BY Pauline Tong</td> <td>CHECKED Greg Jones</td> </tr> <tr> <td>QUANTITIES</td> <td>BY Jay Posey</td> <td>CHECKED Antonio Picazo</td> </tr> </table> | DESIGN | BY Jay Posey | CHECKED Greg Jones | DETAILS | BY Pauline Tong | CHECKED Greg Jones | QUANTITIES | BY Jay Posey | CHECKED Antonio Picazo | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. 53C2185 POST MILE 1.51 N. FORK COYOTE CRK BR (REPLACEMENT) INDEX TO PLANS | |
| DESIGN | BY Jay Posey | CHECKED Greg Jones | | | | | | | | | | | |
| DETAILS | BY Pauline Tong | CHECKED Greg Jones | | | | | | | | | | | |
| QUANTITIES | BY Jay Posey | CHECKED Antonio Picazo | | | | | | | | | | | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">0</td> <td style="width: 10%;">1</td> <td style="width: 10%;">2</td> <td style="width: 10%;">3</td> </tr> </table> | 0 | 1 | 2 | 3 | CU 07227 EA 215911 DISREGARD PRINTS BEARING EARLIER REVISION DATES | | | | | | |
| 0 | 1 | 2 | 3 | | | | | | | | | | |
| | | REVISION DATES <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">10-12-09</td> <td style="width: 10%;">5-16-11</td> <td style="width: 10%;">11-12-09</td> <td style="width: 10%;">12-16-09</td> <td style="width: 10%;">2-18-10</td> <td style="width: 10%;">4-29-10</td> <td style="width: 10%;">4-29-10</td> <td style="width: 10%;">5-13-10</td> <td style="width: 10%;">1-14-11</td> <td style="width: 10%;">3-8-11</td> </tr> </table> | 10-12-09 | 5-16-11 | 11-12-09 | 12-16-09 | 2-18-10 | 4-29-10 | 4-29-10 | 5-13-10 | 1-14-11 | 3-8-11 | SHEET 2 OF 30 |
| 10-12-09 | 5-16-11 | 11-12-09 | 12-16-09 | 2-18-10 | 4-29-10 | 4-29-10 | 5-13-10 | 1-14-11 | 3-8-11 | | | | |

USERNAME => hprience DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:08

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 469 | 602 |

Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
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- NOTES:**
1. Contours do not include camber
 2. Contour interval = 0.2'
- × Indicates 10.0' intervals along station line.



PLAN
1" = 10'-0"

| | | |
|------------|-----------------|------------------------|
| DESIGN | BY Jay Posey | CHECKED Greg Jones |
| DETAILS | BY Pauline Tong | CHECKED Greg Jones |
| QUANTITIES | BY Jay Posey | CHECKED Antonio Picazo |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH **11**

| | | |
|---------------------|---------|--------------------------------------------|
| BRIDGE NO. | 53C2185 | N. FORK COYOTE CRK BR (REPLACEMENT) |
| POST MILE | 1.51 | |
| DECK CONTOUR | | |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 470 | 602 |

- ① Sta 116+78.00, "B" LINE, @ ALONDRA BLVD =
- Sta 81+88.51, "D" LINE, FREEWAY DR
- ② Sta 117+35.23, "B" LINE, @ ALONDRA BLVD =
- Sta 5+10.00, "DR2" LINE, BIKE PATH
- ③ Sta 118+51.33, "B" LINE, @ ALONDRA BLVD =
- Sta 16+74.59(78+31.21±), "F" LINE, COYOTE CREEK

| No. | R | Δ | T | L |
|-----|-------|-----------|-------|--------|
| (E) | 80.00 | 95°00'40" | 87.32 | 132.66 |

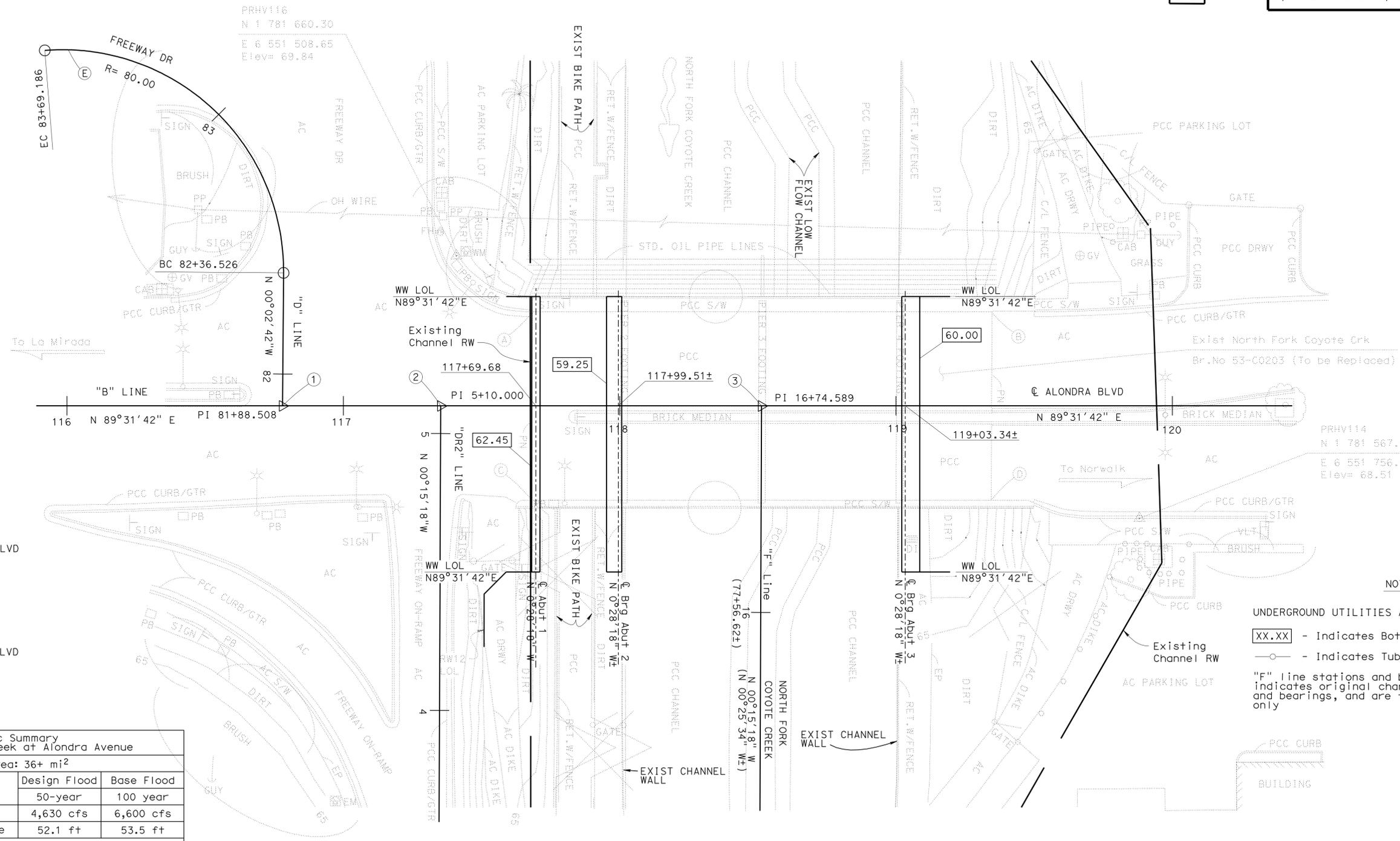
- BRIDGE LOCATION (Exist Br.No 53-C0203)
- (A) 33.82 Ft Lt "B" Line, @ Alondra Blvd Sta 117+68.44, Elev= 69.11±
 - (B) 33.67 Ft Lt "B" Line, @ Alondra Blvd Sta 119+34.76, Elev= 68.76±
 - (C) 33.81 Ft Rt "B" Line, @ Alondra Blvd Sta 117+68.10, Elev= 69.12±
 - (D) 33.95 Ft Rt "B" Line, @ Alondra Blvd Sta 119+34.51, Elev= 68.77±

Phu V. Nguyen
REGISTERED CIVIL ENGINEER
3-2-11 DATE

6-27-11
PLANS APPROVAL DATE

Phu V. Nguyen
No. 60358
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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SURVEY CONTROL

PRHV-114
FND PK & TIN
40.61 Ft Rt @ ALONDRA BLVD
Sta 119+88.08
N 1 781 567.54
E 6 551 756.58
Elev= 68.51

PRHV-116
FND PK & TIN
54.20 Ft Lt @ ALONDRA BLVD
Sta 117+40.92
N 1 781 660.30
E 6 551 508.65
Elev= 69.84

| Hydrologic Summary North Fork Coyote Creek at Alondra Avenue | | |
|-----------------------------------------------------------------|--------------|------------|
| Drainage Area: 36+ mi ² | | |
| Frequency | Design Flood | Base Flood |
| 50-year | 50-year | 100 year |
| Discharge | 4,630 cfs | 6,600 cfs |
| Water Surface Elev at Bridge | 52.1 ft | 53.5 ft |

Flood plain data are based upon information available when the plains were prepared and are shown to meet federal requirements. The accuracy of said information is not warranted by the State and interested or affected parties should make their own investigation

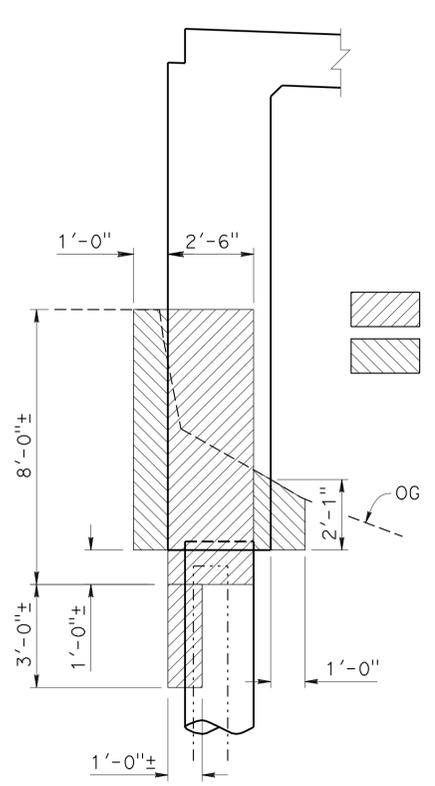
- NOTES:**
- UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE
 - XX.XX - Indicates Bottom of Footing Elevation
 - - Indicates Tubular Railing
 - "F" line stations and bearings in parenthesis indicates original channel. As-Built stations and bearings, and are for informational purposes only

| | | | | | | | | | | |
|------------------------------------------------------------|-----------------------|----------------------------|-------------------------|------------------------|--------------------|-----------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------|
| PRELIMINARY INVESTIGATION SECTION | | | | DESIGN BY Jay Posey | CHECKED Greg Jones | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. 53C2185 | N. FORK COYOTE CRK BR (REPLACEMENT) FOUNDATION PLAN | |
| SCALE 1"=20' | VERT. DATUM NAVD88 | PHOTOGRAMMETRY AS OF: X | DETAILS BY Pauline Tong | CHECKED Greg Jones | POST MILE 1.51 | | | | | |
| ALIGNMENT TIES | DIST. TRAVERSE SHEETS | DRAFTED BY V. PHAM 07/2009 | QUANTITIES BY Jay Posey | CHECKED Antonio Picazo | | | | | | |
| STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 10/25/05) | | | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | CU 07-227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET 4 OF 30 |

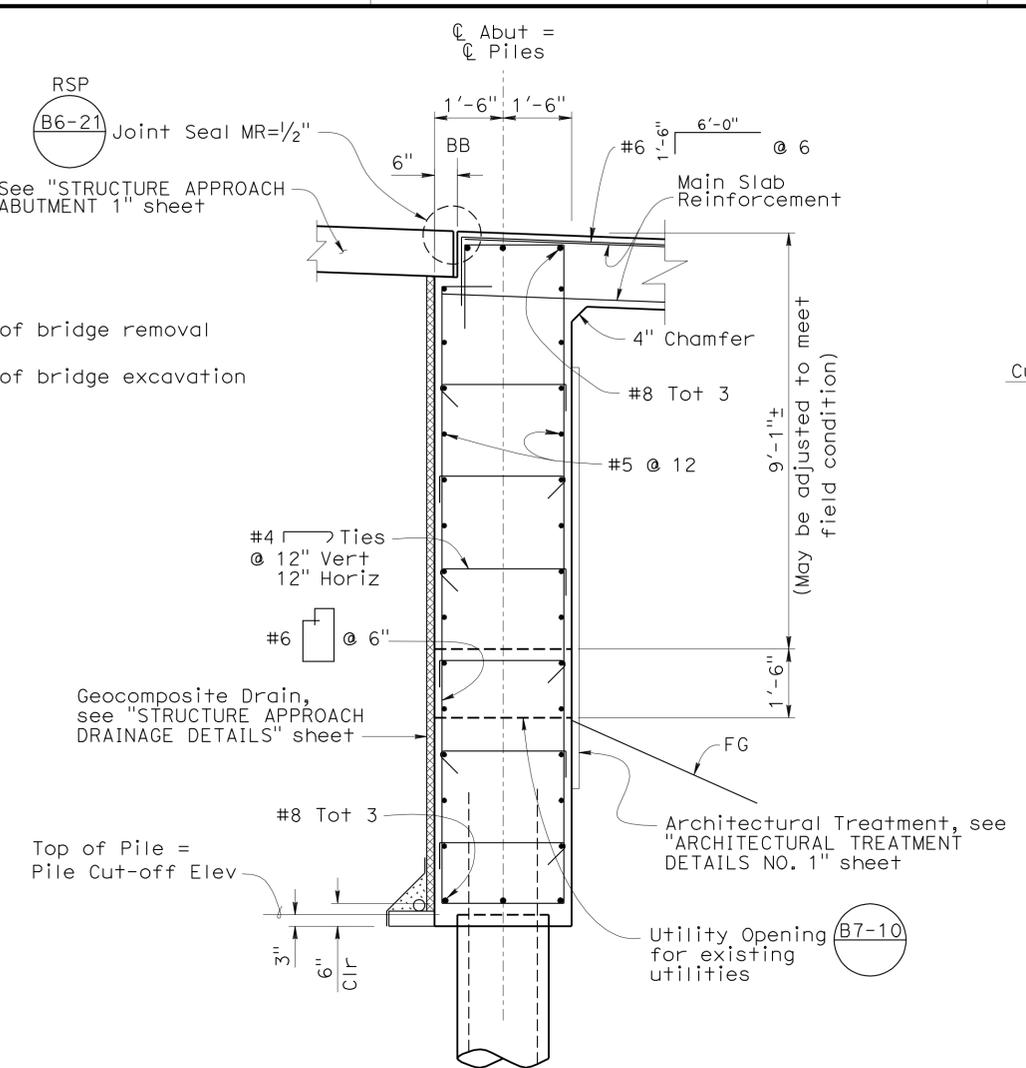
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|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 471 | 602 |

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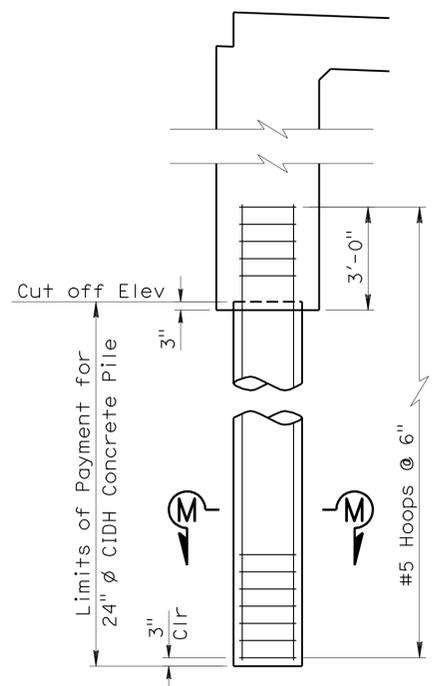
PHU V. NGUYEN
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 STATE OF CALIFORNIA



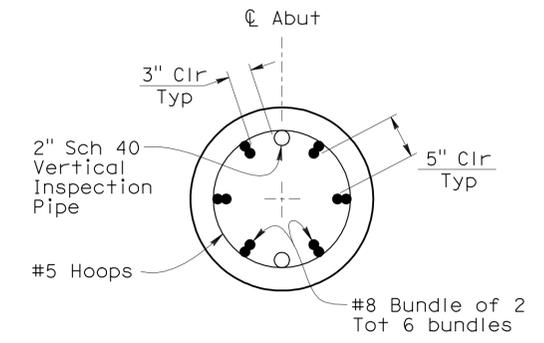
LIMITS OF PAYMENT FOR STRUCTURE EXCAVATION AT ABUT 1
No Scale



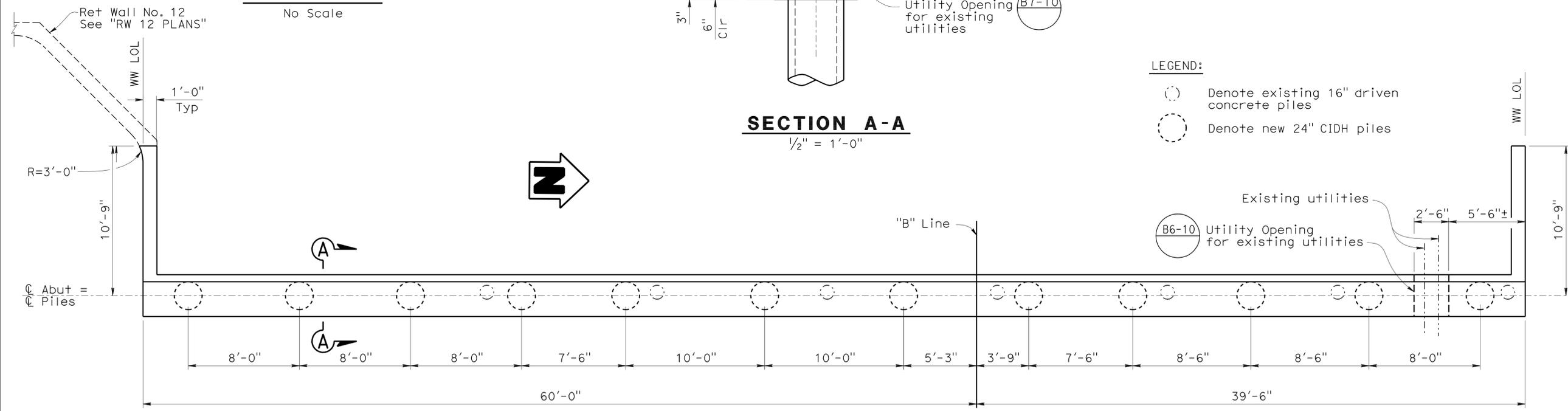
SECTION A-A
1/2" = 1'-0"



ABUTMENT 1 24" CIDH PILE
3/8" = 1'-0"



SECTION M-M
1" = 1'-0"



PLAN
1/4" = 1'-0"

Note: With engineer's approval, location of new piles may be adjusted to accommodate conflicts with existing piles

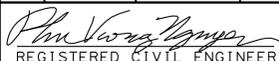
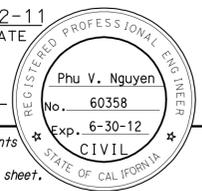
| | | |
|------------|-----------------|------------------------|
| DESIGN | BY Jay Posey | CHECKED Greg Jones |
| DETAILS | BY Pauline Tong | CHECKED Greg Jones |
| QUANTITIES | BY Jay Posey | CHECKED Antonio Picazo |

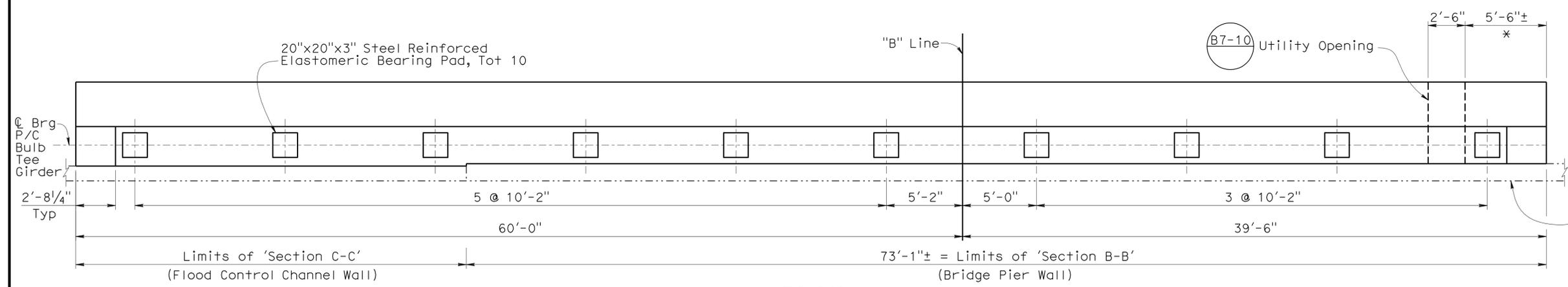
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 11

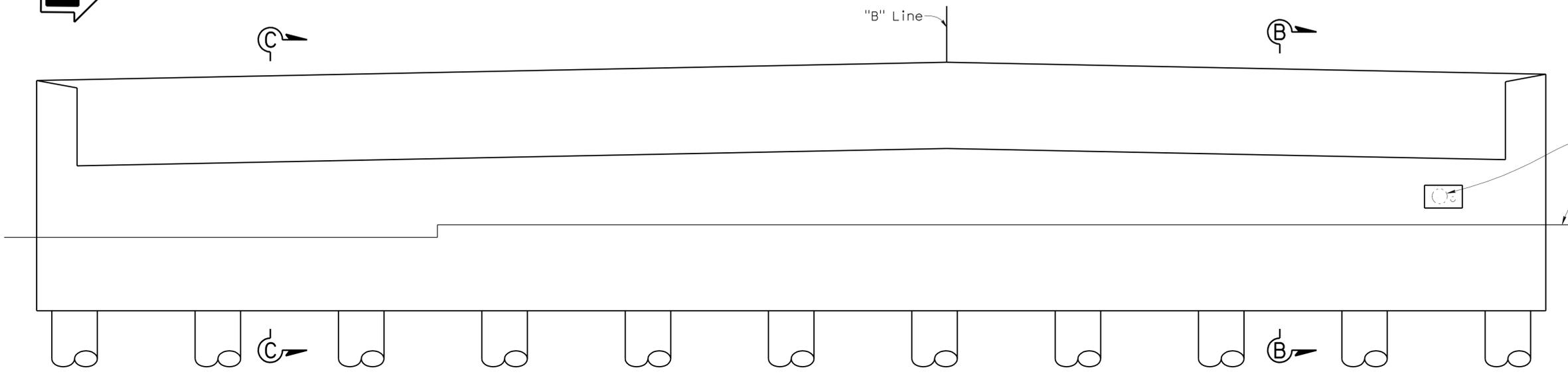
BRIDGE NO. 53C2185
POST MILE 1.51

**N. FORK COYOTE CRK BR (REPLACEMENT)
ABUTMENT 1 LAYOUT**

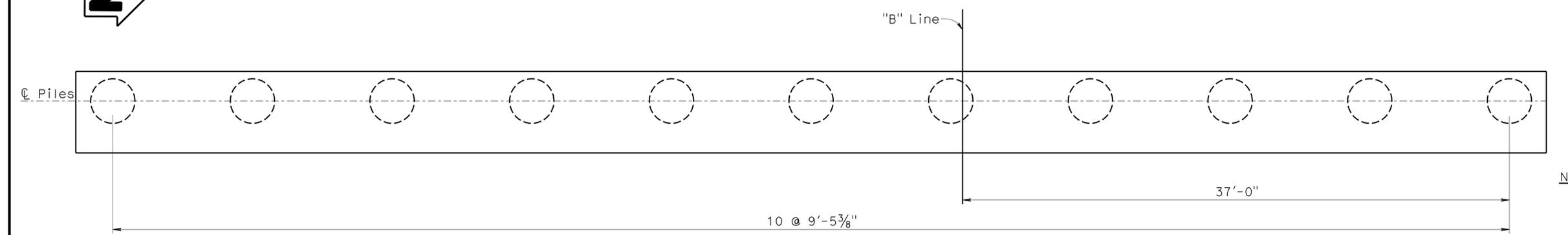
| | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|-------------------------------------------------------------------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 472 | 602 |
|  REGISTERED CIVIL ENGINEER DATE 3-2-11 | | |  | | |
| PLANS APPROVAL DATE 6-27-11 <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small> | | | | | |



PLAN
1/4" = 1'-0"



ELEVATION
1/4" = 1'-0"



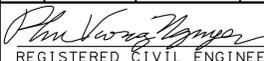
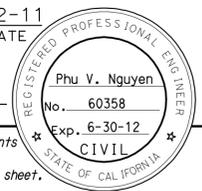
PILE LAYOUT
1/4" = 1'-0"

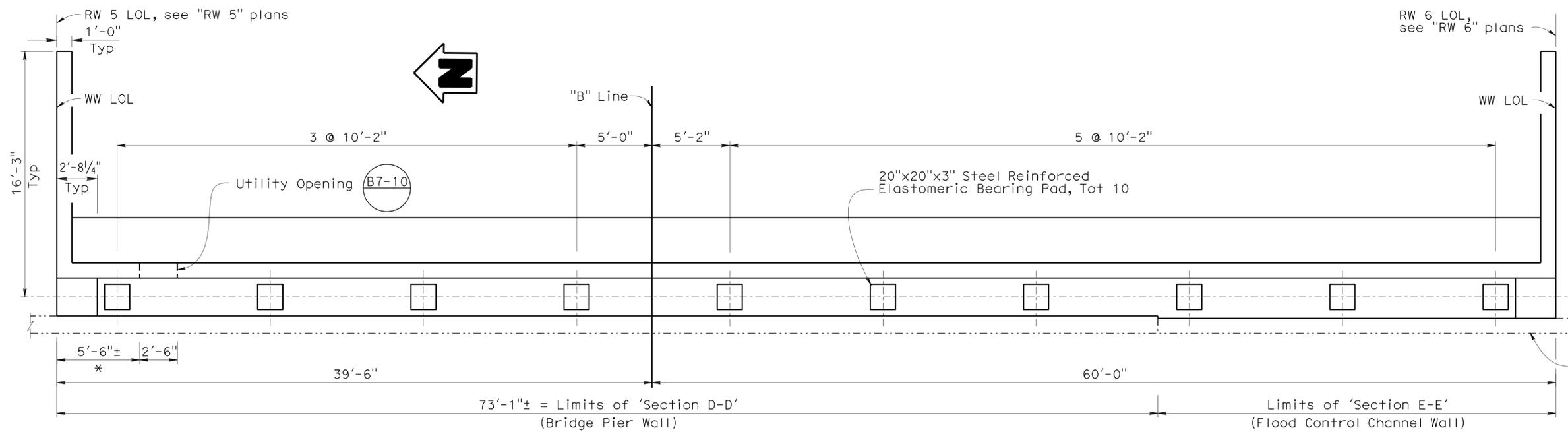
- Notes:**
- For 'Section B-B and C-C', see "ABUTMENT DETAILS NO. 1" sheet
 - * With engineers approval, opening may be adjusted to meet field condition

| | | | | | | | |
|----------------------------------------------------------------------------------------------------|------------|-----------------|------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN | BY Jay Posey | CHECKED Greg Jones | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | N. FORK COYOTE CRK BR (REPLACEMENT) ABUTMENT 2 LAYOUT |
| | DETAILS | BY Pauline Tong | CHECKED Greg Jones | | | 53C2185 | |
| | QUANTITIES | BY Jay Posey | CHECKED Antonio Picazo | | | POST MILE 1.51 | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | |
| REVISION DATES: 7-27-09, 9-2-09, 9-24-09, 10-21-09, 11-16-09, 11-17-09, 12-16-09, 2-20-10, 8-18-10 | | | | | | SHEET | OF |
| | | | | | | 6 | 30 |

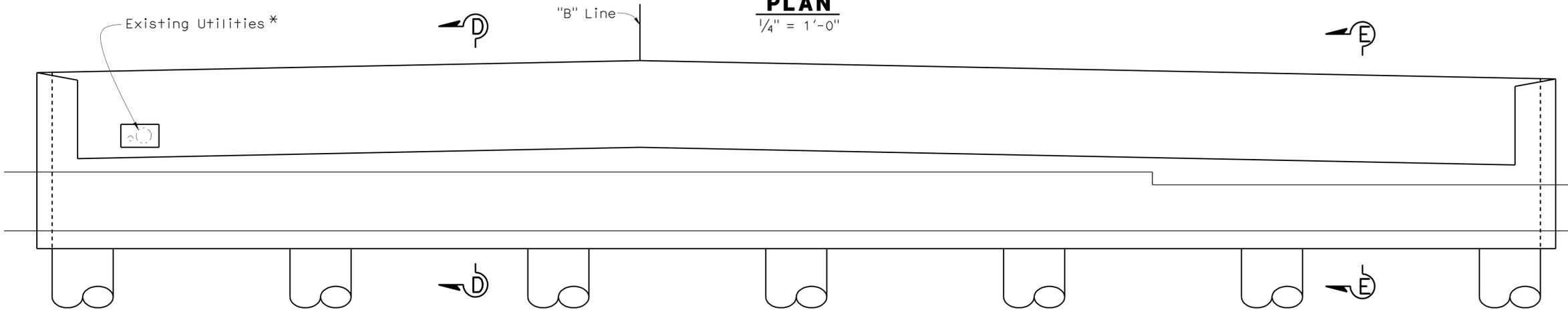
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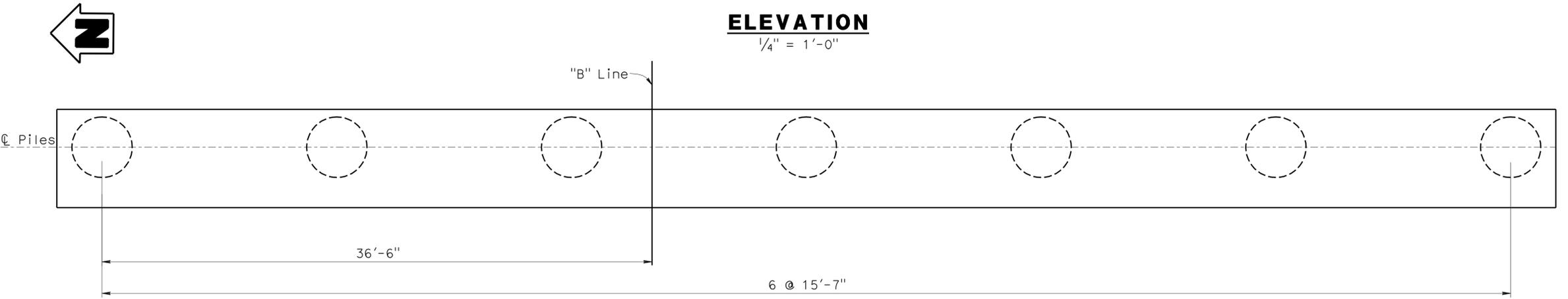
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|------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|-------------------------------------------------------------------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 473 | 602 |
|  | | | 3-2-11 | | |
| REGISTERED CIVIL ENGINEER | | | DATE | | |
| 6-27-11 PLANS APPROVAL DATE | | | | | |
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PLAN
1/4" = 1'-0"



ELEVATION
1/4" = 1'-0"



PILE LAYOUT
1/4" = 1'-0"

- Notes:
- For 'Section D-D and E-E', see "ABUTMENT DETAILS NO. 1" sheet
- * With engineers approval, opening may be adjusted to meet field condition

| | | | | | | | | | |
|----------------------------------------------------------|------------|-----------------|------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------|---------------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN | BY Jay Posey | CHECKED Greg Jones | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | N. FORK COYOTE CRK BR (REPLACEMENT) | | |
| | DETAILS | BY Pauline Tong | CHECKED Greg Jones | | | POST MILE | ABUTMENT 3 LAYOUT | | |
| | QUANTITIES | BY Jay Posey | CHECKED Antonio Picazo | | | 1.51 | | | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | REVISION DATES 7-27-09 9-24-09 10-15-09 10-18-09 10-21-09 11-17-09 12-16-09 2-20-10 8-18-10 | SHEET 7 OF 30 |

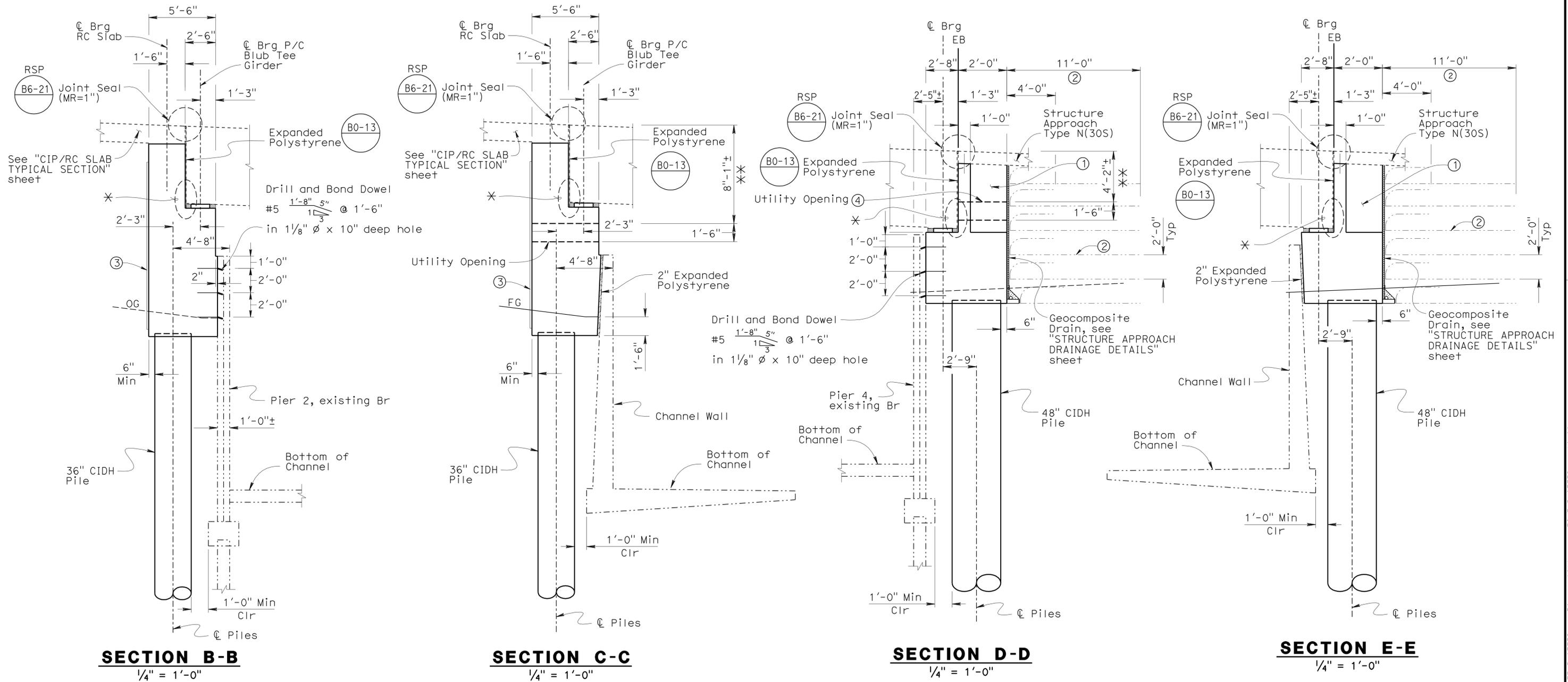
USERNAME => hprience DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:08

| | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|----------------------------------------------------------------------------------------------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 474 | 602 |
| Phn Vong Tong REGISTERED CIVIL ENGINEER DATE 3-2-11 | | | REGISTERED PROFESSIONAL ENGINEER Phn V. Nguyen No. 60358 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA | | |
| 6-27-11 PLANS APPROVAL DATE | | | | | |
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NOTES:

- Fill void with slurry after Abutment and Geosynthetic Reinforced Embankment has been placed
- Geosynthetic Reinforced Embankment shall be constructed prior to the construction of Abutment. Horizontal limits are from inside face of Wingwall to inside face of Wingwall. Limits of Geosynthetic Reinforced Embankment shall include Structure Excavation and Structure Backfill.
- Architectural Treatment. See "ARCHITECTURAL TREATMENT DETAILS NO. 1" sheet
- Seal utility with concrete or mortar after tightly wrapping utility with 2 layers of 15 lbs building paper

* See 'Detail J' on "ABUTMENT DETAILS NO. 3" sheet
 ** With engineers approval, opening may be adjusted to meet field conditions



USERNAME => hprjnce DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:03

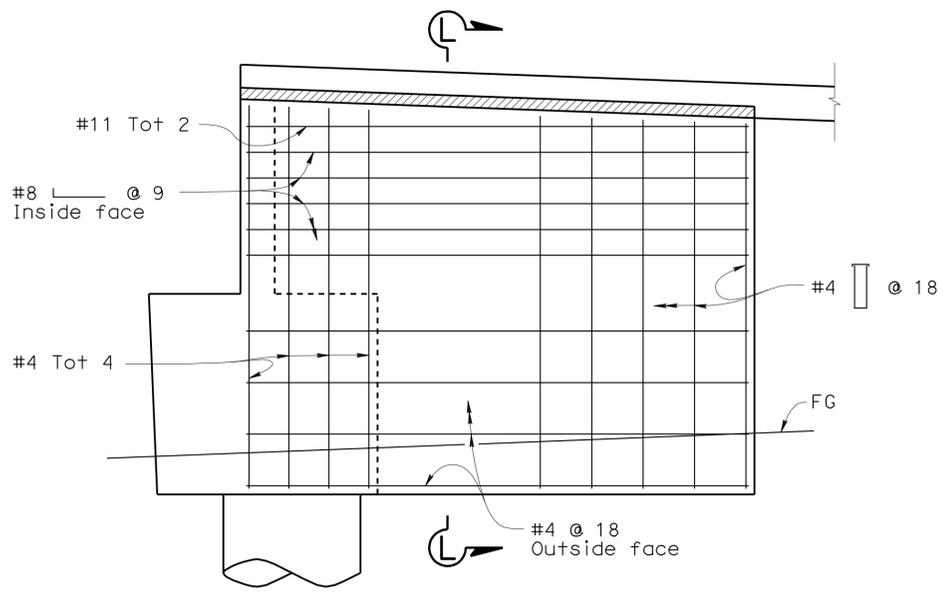
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|----------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN BY Jay Posey CHECKED Greg Jones | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN | BRIDGE NO. 53C2185 | N. FORK COYOTE CRK BR (REPLACEMENT) ABUTMENT DETAILS NO. 1 |
| | DETAILS BY Pauline Tong CHECKED Greg Jones | | DESIGN BRANCH 11 | POST MILE 1.51 | |
| | QUANTITIES BY Jay Posey CHECKED Antonio Picazo | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | CU 07227 EA 215911 | |
| | | REVISION DATES | | SHEET 8 OF 30 | |

| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 475 | 602 |

REGISTERED CIVIL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

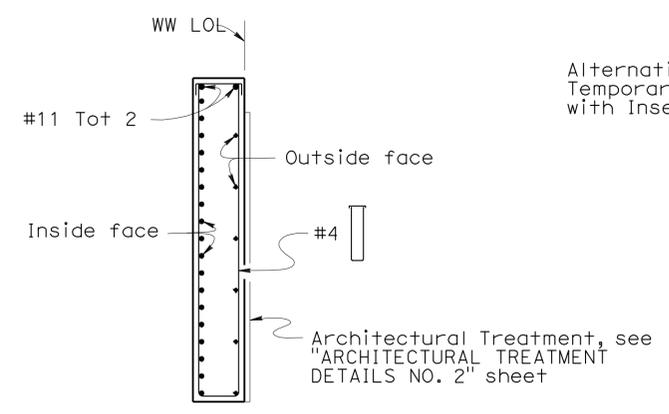
3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE

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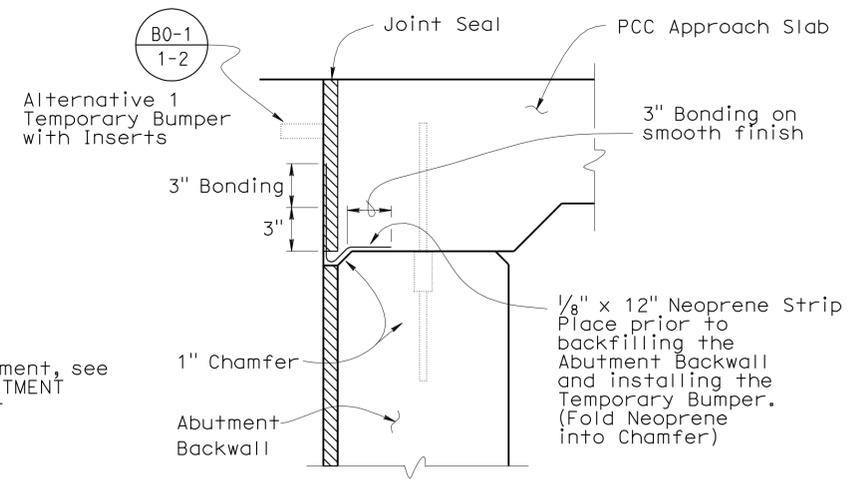
ABUT 3 WINGWALL ELEVATION
 $\frac{3}{8}'' = 1'-0''$

Note: South side shown. North side similar

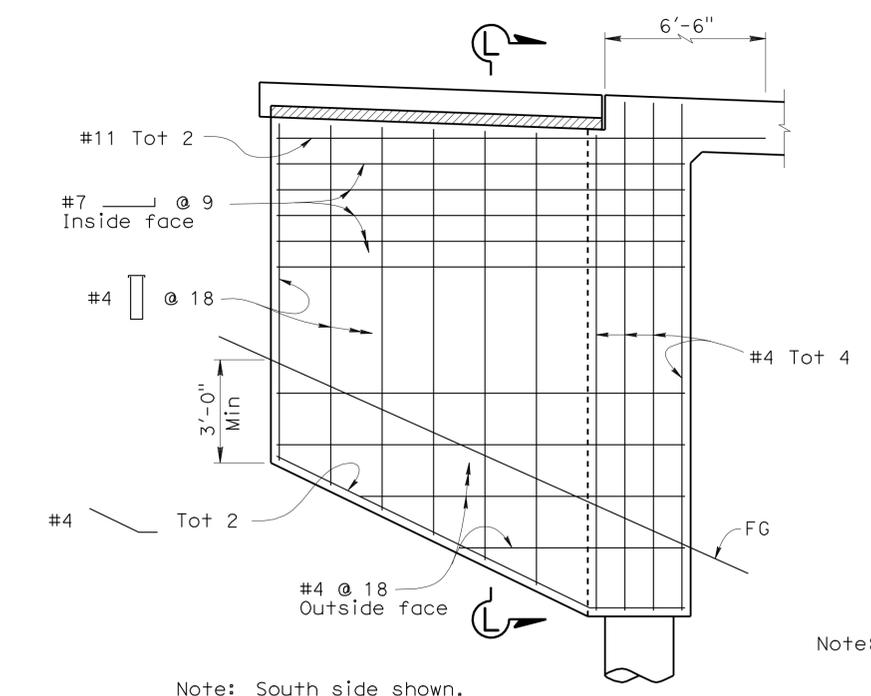


SECTION L-L
 $\frac{3}{8}'' = 1'$

Note: Approach Slab and drainage not shown

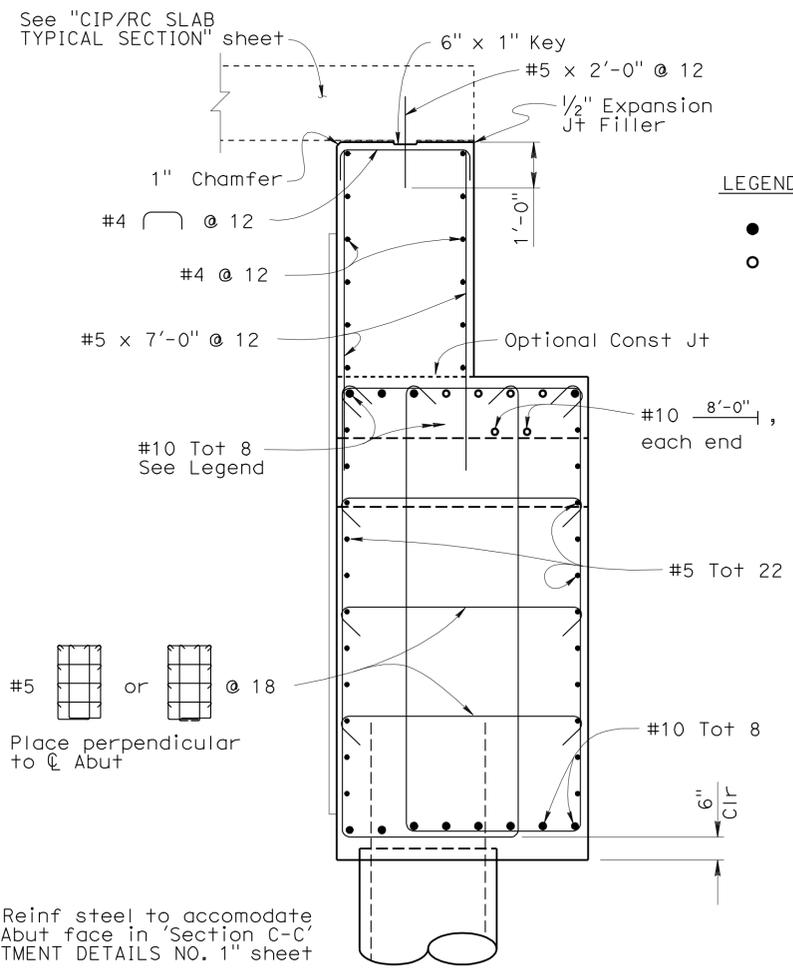


JOINT PROTECTION DETAIL (ABUTMENT 3)
 No Scale



ABUT 1 WINGWALL ELEVATION
 $\frac{3}{8}'' = 1'-0''$

Note: South side shown. North side similar

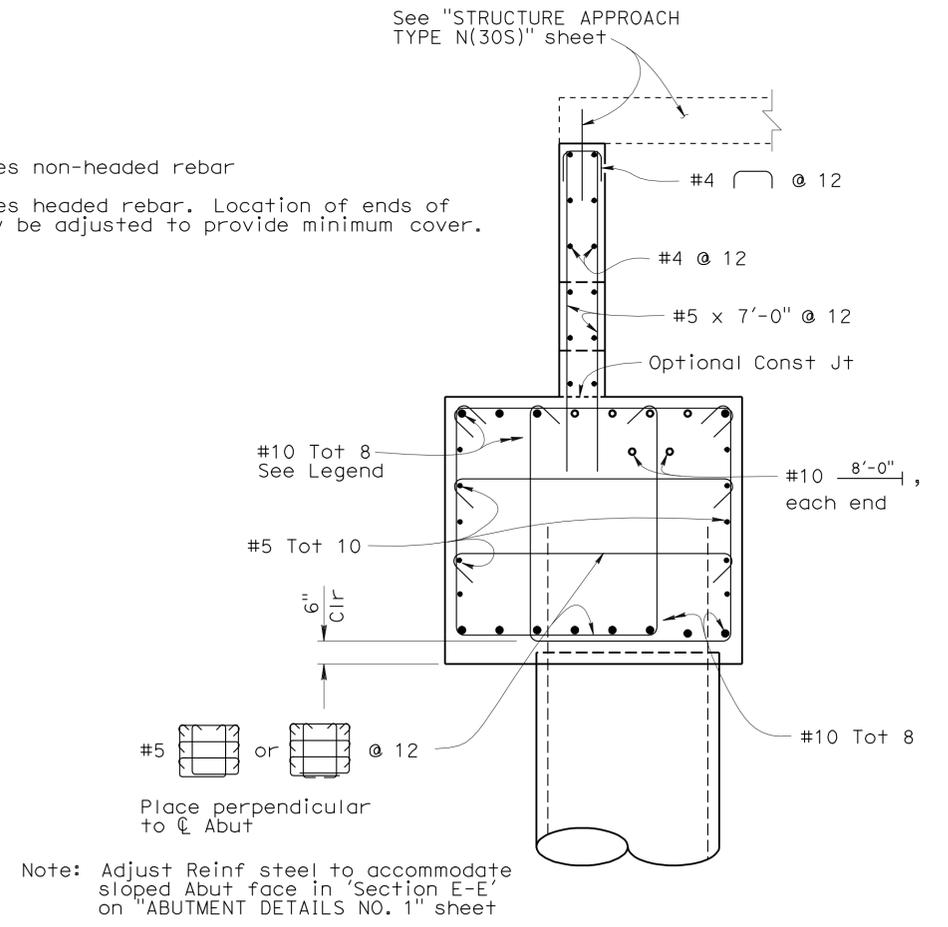


ABUTMENT 2 REINFORCING
 $\frac{1}{2}'' = 1'-0''$

Note: Adjust Reinf steel to accommodate sloped Abut face in 'Section C-C' on 'ABUTMENT DETAILS NO. 1' sheet

LEGEND

- Indicates non-headed rebar
- Indicates headed rebar. Location of ends of bar may be adjusted to provide minimum cover.



ABUTMENT 3 REINFORCING
 $\frac{1}{2}'' = 1'-0''$

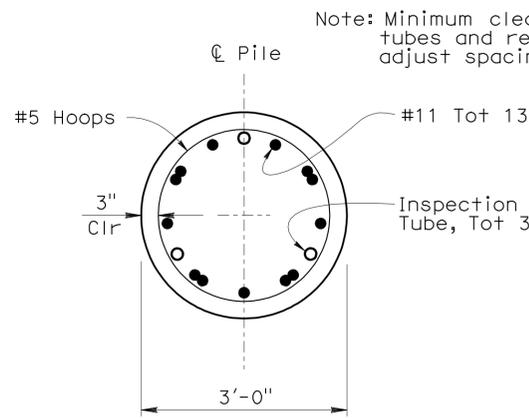
Note: Adjust Reinf steel to accommodate sloped Abut face in 'Section E-E' on 'ABUTMENT DETAILS NO. 1' sheet

| | | | | | | | | | | | | | | |
|----------------------------------------------------------|------------|-----------------|------------------------|-----------------------------------------------------|--------------------------------------------------------------------------|----------------|-------------------------------------|----------|----------|---------|---------|---------|---------|---------------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN | BY Jay Posey | CHECKED Greg Jones | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | N. FORK COYOTE CRK BR (REPLACEMENT) | | | | | | | |
| | DETAILS | BY Pauline Tong | CHECKED Greg Jones | | | 53C2185 | ABUTMENT DETAILS NO. 2 | | | | | | | |
| | QUANTITIES | BY Jay Posey | CHECKED Antonio Picazo | | | POST MILE | 1.51 | | | | | | | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | | CU 07227 EA 215911 | REVISION DATES | | | | | | | | |
| | | | | | | 10-18-09 | 11-2-09 | 11-18-09 | 12-11-09 | 2-20-10 | 4-20-10 | 4-22-10 | 8-19-10 | SHEET 9 OF 30 |

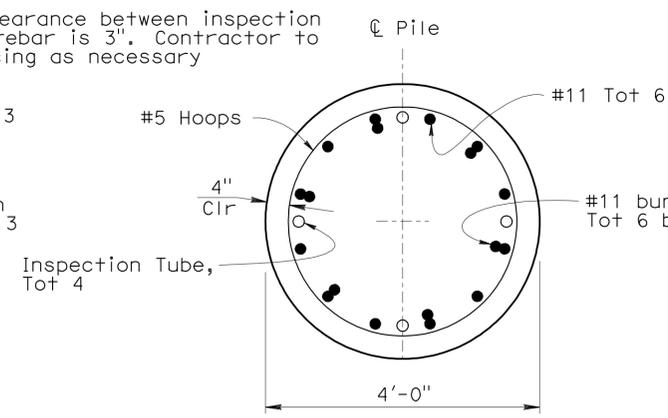
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 476 | 602 |

3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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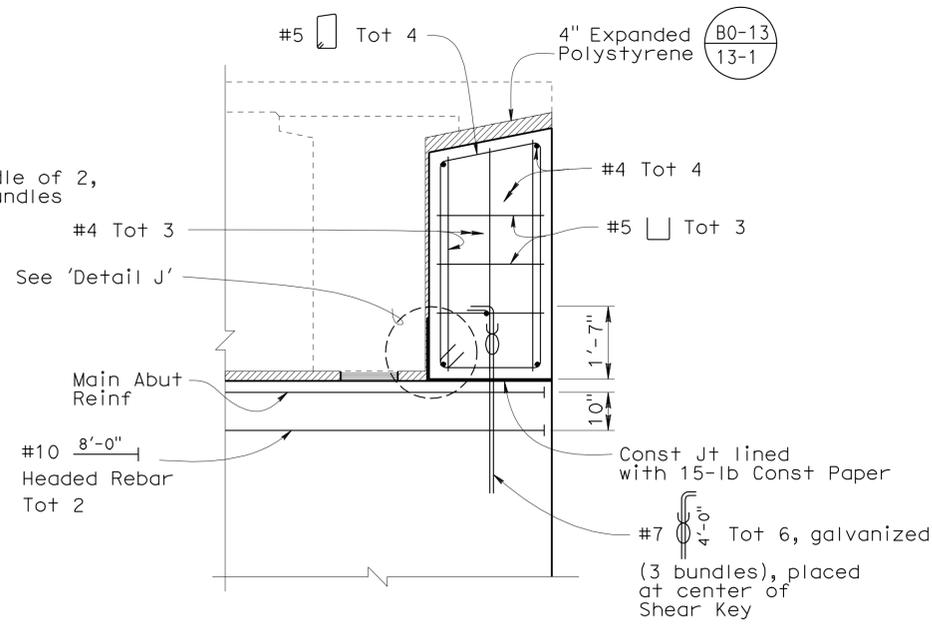
Phu V. Nguyen
 REGISTERED PROFESSIONAL ENGINEER
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



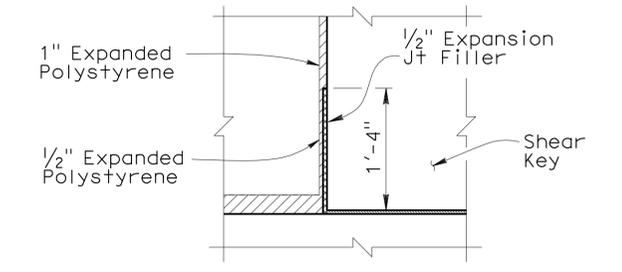
SECTION F-F
3/4" = 1'-0"



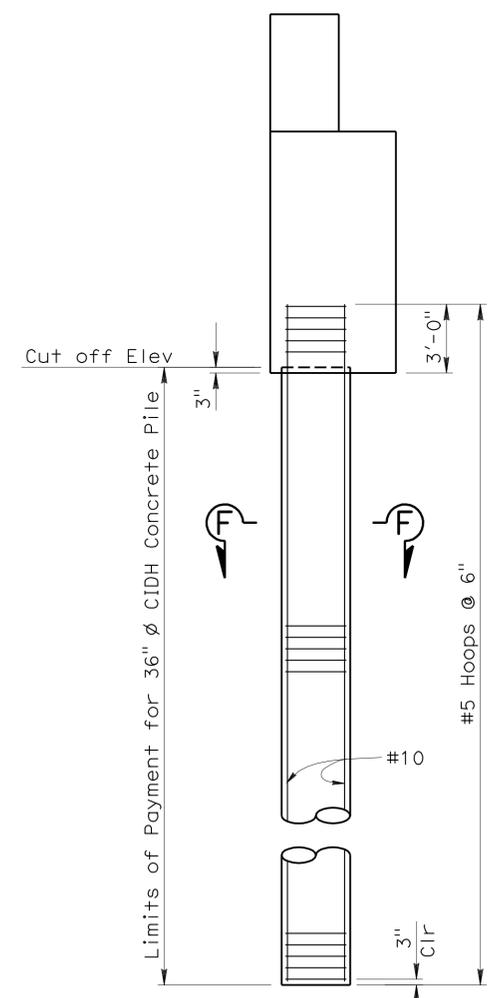
SECTION G-G
3/4" = 1'-0"



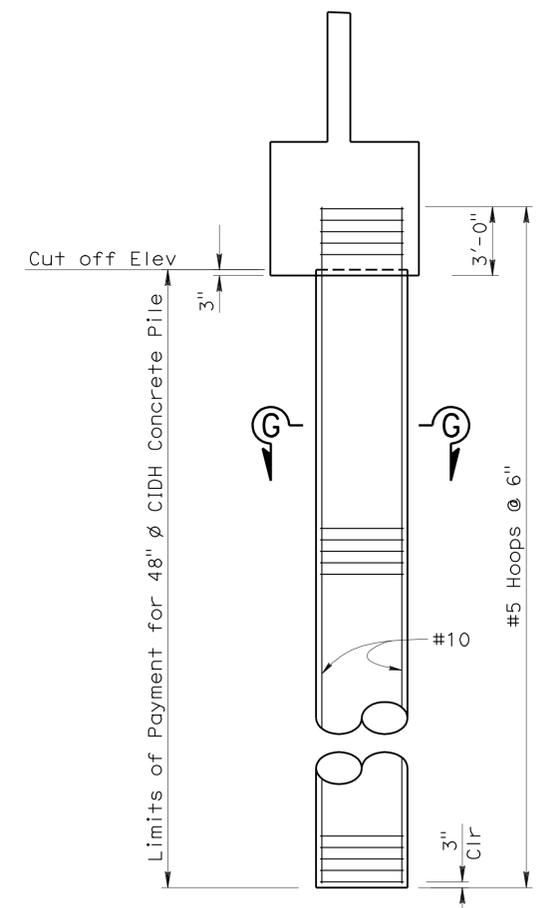
SECTION H-H
1/2" = 1'-0"



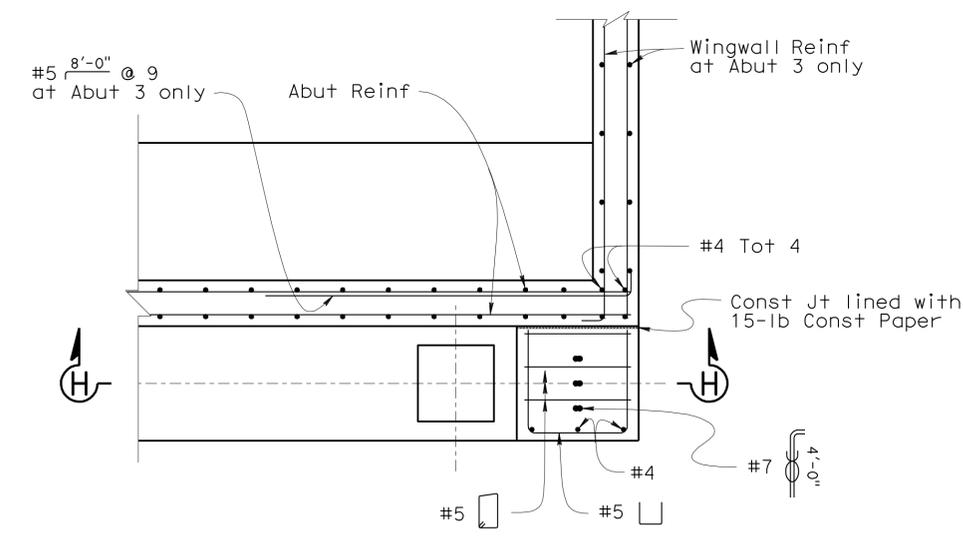
DETAIL J
No Scale



ABUTMENT 2 36" CIDH PILE
1/4" = 1'-0"

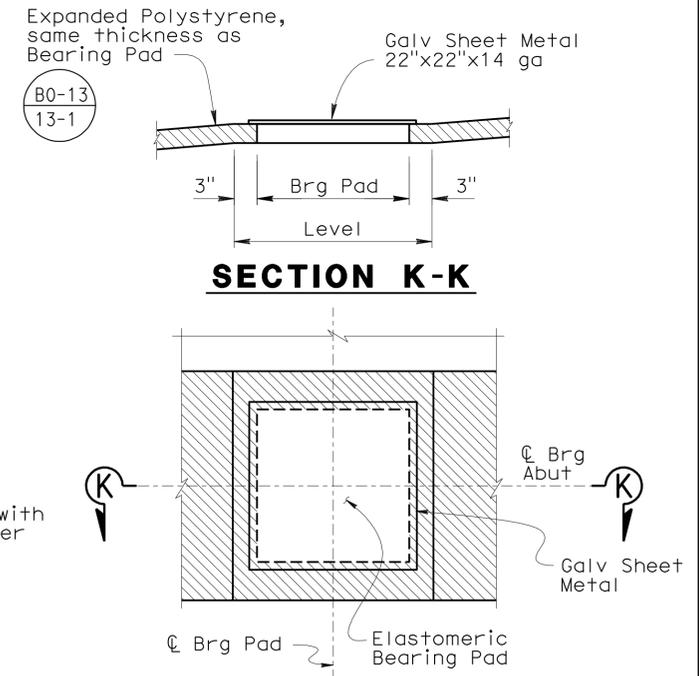


ABUTMENT 3 48" CIDH PILE
1/4" = 1'-0"



Note: Abut 3 shown, Abut 2 similar except as noted

SHEAR KEY DETAIL
1/2" = 1'-0"



PLAN

- Notes:
1. Details typical at all bearing pads
 2. Coat top of Bearing Pad with silicone grease prior to placing sheet metal

BEARING PAD DETAIL
No Scale

| | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| DESIGN BY Jay Posey CHECKED Greg Jones DETAILS BY Pauline Tong CHECKED Greg Jones QUANTITIES BY Jay Posey CHECKED Antonio Picazo | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. 53C2185 POST MILE 1.51 | N. FORK COYOTE CRK BR (REPLACEMENT) ABUTMENT DETAILS NO. 3 |
| | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | SHEET 10 OF 30 |
| | 0 1 2 3 | FILE => 53c-2185-f-abutd+03.dgn | REVISION DATES: 10-27-09, 11-4-09, 11-16-09, 12-16-09, 2-22-10, 8-19-10 | USERNAME => hprince DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:09 |

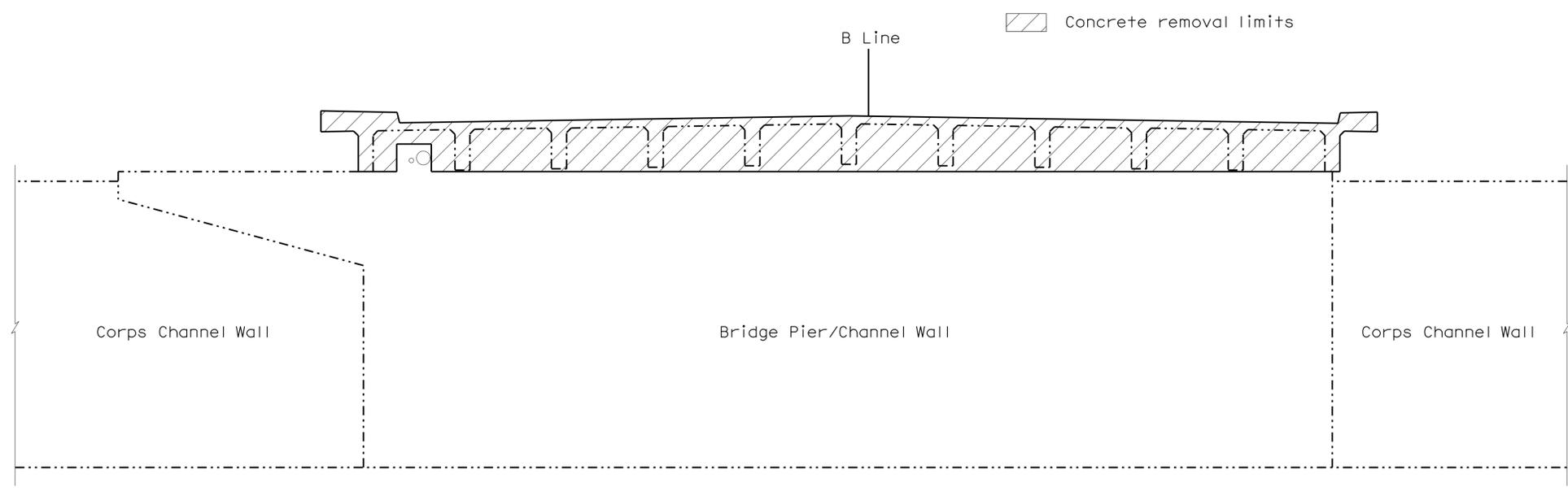
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 477 | 602 |

Phu V. Nguyen 3-2-11
REGISTERED CIVIL ENGINEER DATE

6-27-11
PLANS APPROVAL DATE

Phu V. Nguyen
No. 60358
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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ELEVATION
No Scale

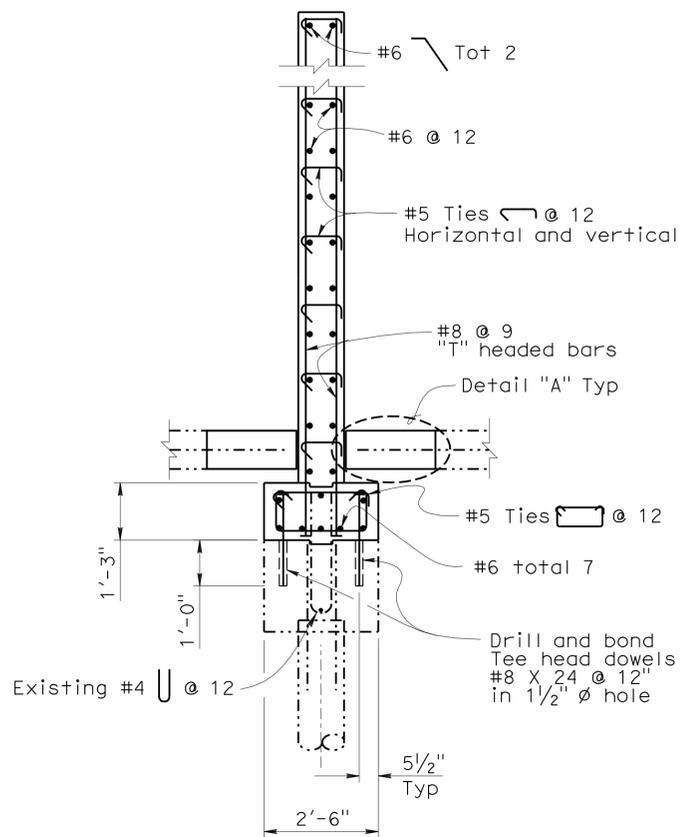
Note: Pier 4 shown,
Pier 2 opposite hand

| | | | | | | | | |
|----------------------------------------------------------|------------|-----------------|------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------|----------------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN | BY Jay Posey | CHECKED Greg Jones | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | N. FORK COYOTE CRK BR (REPLACEMENT) | |
| | DETAILS | BY Pauline Tong | CHECKED Greg Jones | | | 53C2185 | PIER 2 & 4 CONCRETE REMOVAL (PARTIAL) | |
| | QUANTITIES | BY Jay Posey | CHECKED Antonio Picazo | | | POST MILE | | |
| | | | | | | 1.51 | | |
| | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | 8-23-10 | REVISION DATES |
| | | | | 0 1 2 3 | FILE => 53c-2185-h-rev01.dgn | | | SHEET 11 OF 30 |

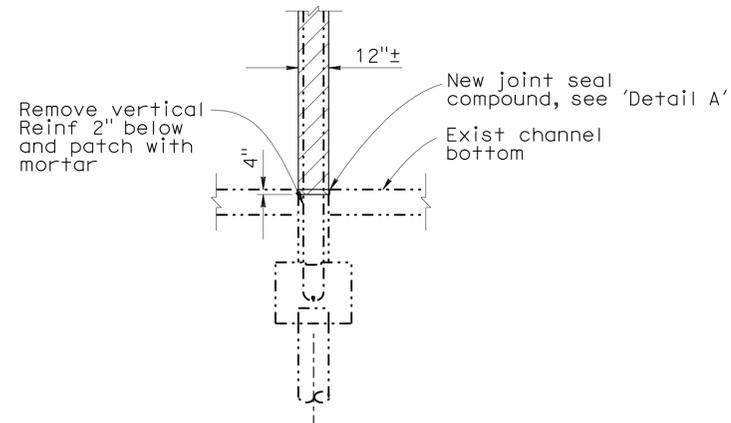
USERNAME => hpierce DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:09

| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 478 | 602 |

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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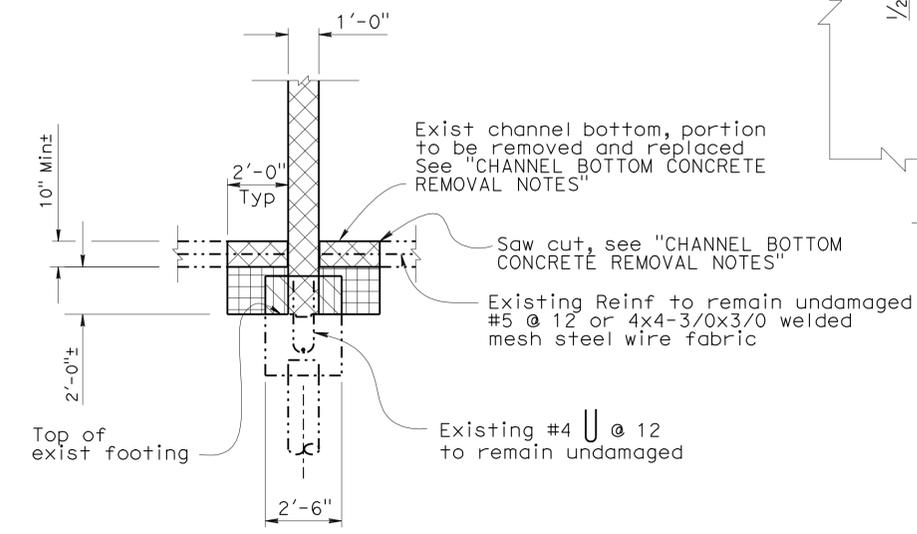


SECTION A-A
No Scale



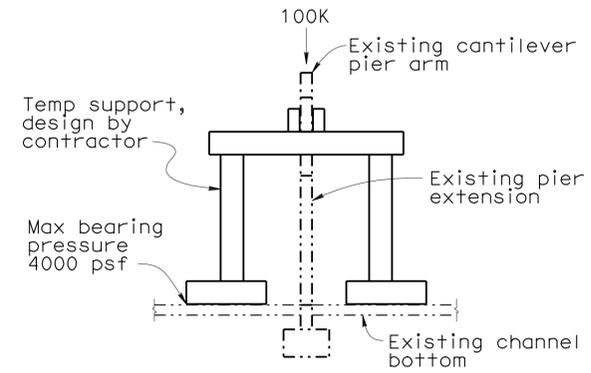
SECTION B-B
No Scale

- LEGEND:**
- Bridge removal
 - Structure Concrete (Bridge), type 680-B-5000. See "Special Provision" for details
 - Limits of payment for Structure Excavation, Bridge
 - Limits of payment for 3 Sack slurry mix.

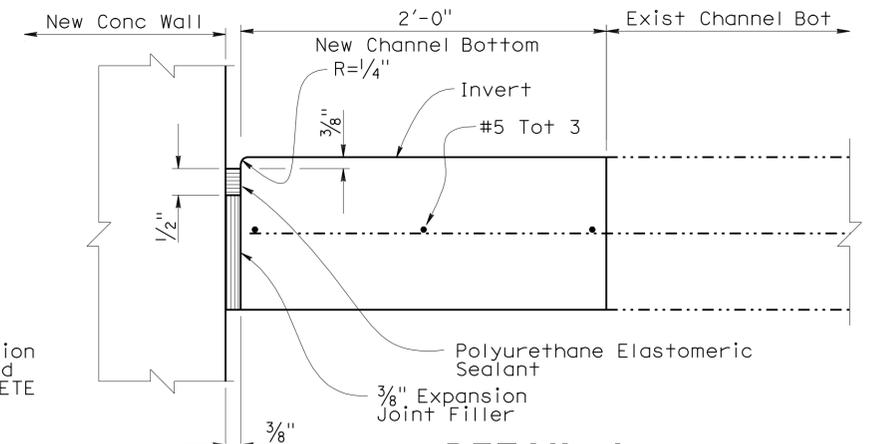


LIMITS OF PAYMENT
No Scale

- NOTES:**
- The existing pier extension provides no support for the cantilever pier arm. Contractor is responsible for supporting cantilever pier arm and utilities during removal of Pier 3 and reconstruction of utility support
 - Pier 3 must be supported prior to removal of existing bridge superstructure
 - "F" line stationing in parentheses indicates As-built stations and are shown for informational purposes only
 - All new concrete on this sheet shall be Structure Concrete Type 680-b-5000



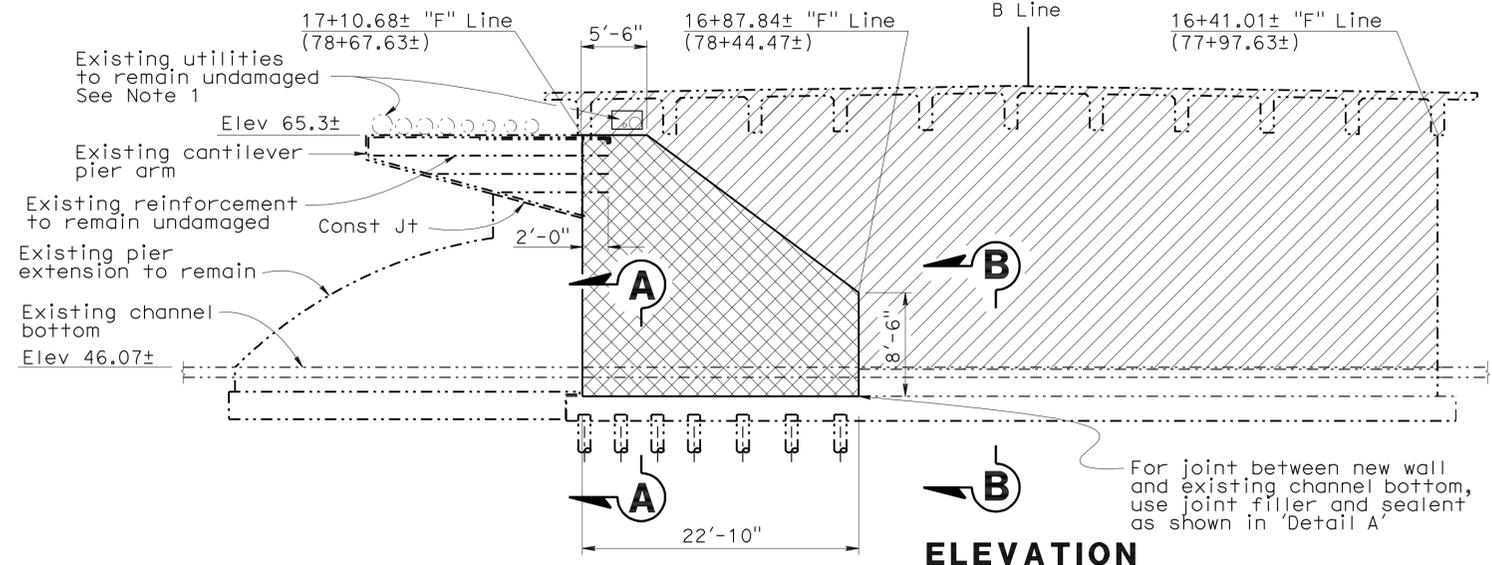
TEMPORARY SUPPORT
No Scale



DETAIL A
No Scale

CHANNEL BOTTOM CONCRETE REMOVAL NOTES

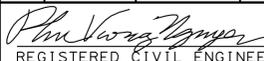
- Where reinforcement is required to extend through the new joint, concrete shall be removed in the following sequence.
 - A sawcut shall be made one and one-half inches deep at the removal limits. Care shall be exercised in sawing at the removal limits so as not to cut the reinforcing steel in the remaining slab. The existing reinforcing steel shall be retained and extended into the new construction as indicated on the plans.
 - Using handheld equipment, the concrete shall be carefully removed for the full depth of the wall or slab and for a minimum distance from the sawcut equal to the longest extension of the existing bars to be extended into the new construction. This extension shall be 30 bar diameters, unless otherwise shown.
 - Existing reinforcement shall be cut to the required bar extension.
 - The remaining concrete may be removed by any suitable method upon approval of the engineer, who shall be the sole judge of the use of any concrete removal equipment. Explosives, wrecking ball, or other similar devices, which are likely to damage the concrete to be left in place, shall not be used.
- All other concrete removal shall comply with Caltrans "Standard Specifications" and "Special Provisions".



ELEVATION
No Scale

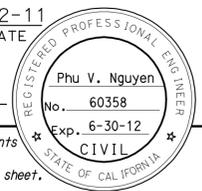
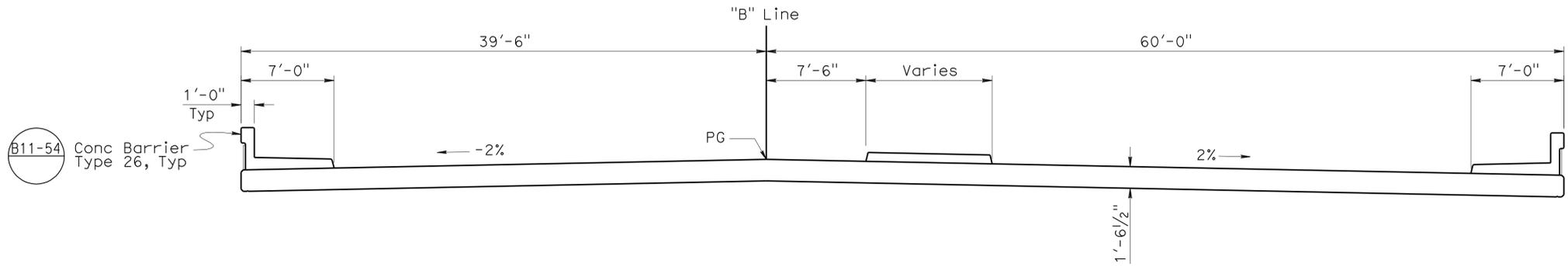
| | | | | | | | | |
|----------------------------------------------------------|------------|------------------|------------------------|-----------------------------------------------------|--------------------------------------------------------------------------|-----------------------|----------------|----------------------------------------------------------------------------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN | BY Jay Posey | CHECKED Greg Jones | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | 53C2185 | N. FORK COYOTE CRK BR (REPLACEMENT) PIER 3 REMOVE AND REPLACE (PARTIAL) |
| | DETAILS | BY T. Bittermann | CHECKED Greg Jones | | | POST MILE | 1.51 | |
| | QUANTITIES | BY Jay Posey | CHECKED Antonio Picazo | | | CU 07227 EA 215911 | REVISION DATES | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | 0 1 2 3 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | SHEET 12 | OF 30 | |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 479 | 602 |

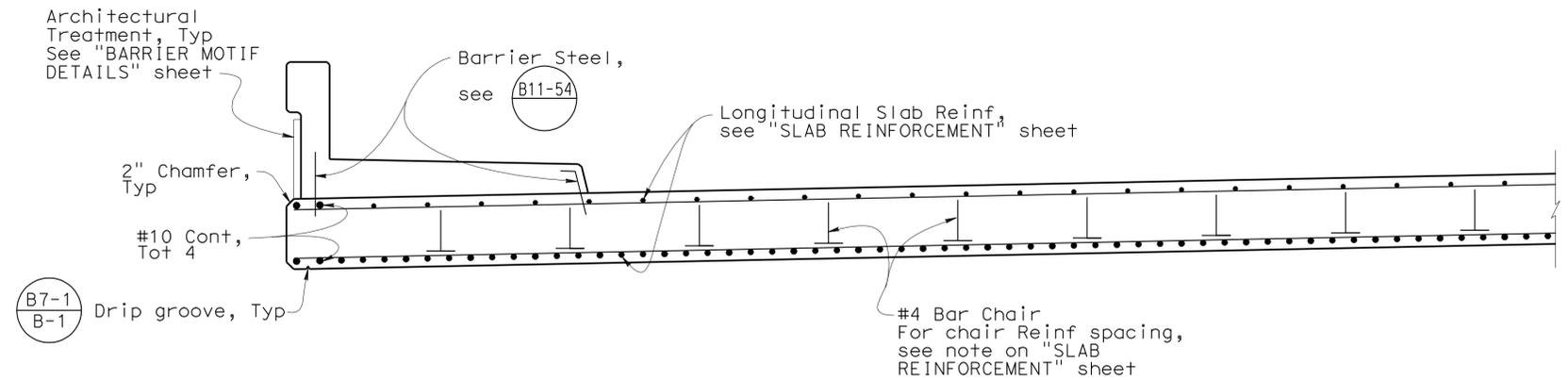
 3-2-11
 REGISTERED CIVIL ENGINEER DATE

6-27-11
 PLANS APPROVAL DATE

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SPAN 1
TYPICAL SECTION
 $\frac{3}{16}'' = 1'-0''$



SPAN 1
PART TYPICAL SECTION
 $\frac{1}{2}'' = 1'-0''$

| | | |
|------------|-----------------|------------------------|
| DESIGN | BY Jay Posey | CHECKED Greg Jones |
| DETAILS | BY Pauline Tong | CHECKED Greg Jones |
| QUANTITIES | BY Jay Posey | CHECKED Antonio Picazo |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 11

| | | |
|-------------------------------|---------|--------------------------------------------|
| BRIDGE NO. | 53C2185 | N. FORK COYOTE CRK BR (REPLACEMENT) |
| POST MILE | 1.51 | |
| SPAN 1 TYPICAL SECTION | | |

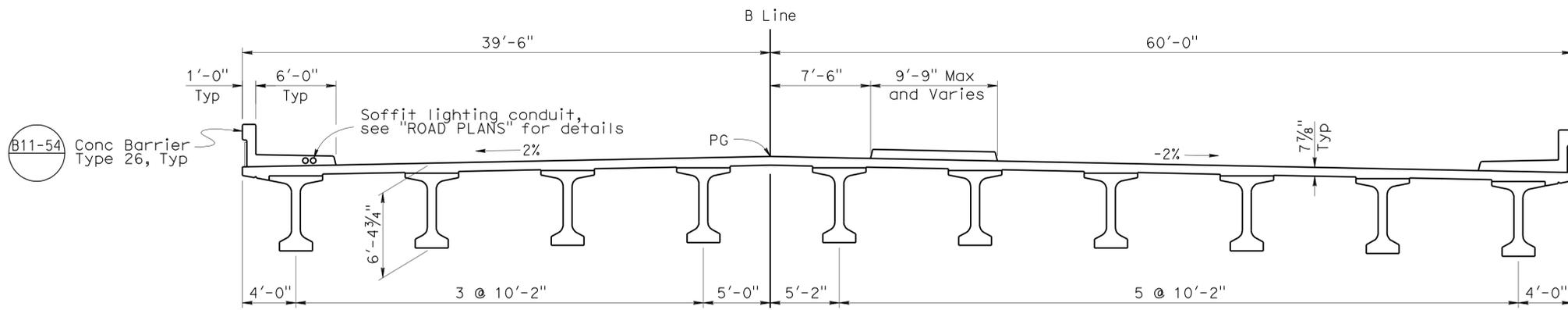
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 480 | 602 |

Phu V. Nguyen 3-2-11
REGISTERED CIVIL ENGINEER DATE

6-27-11
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Phu V. Nguyen
No. 60358
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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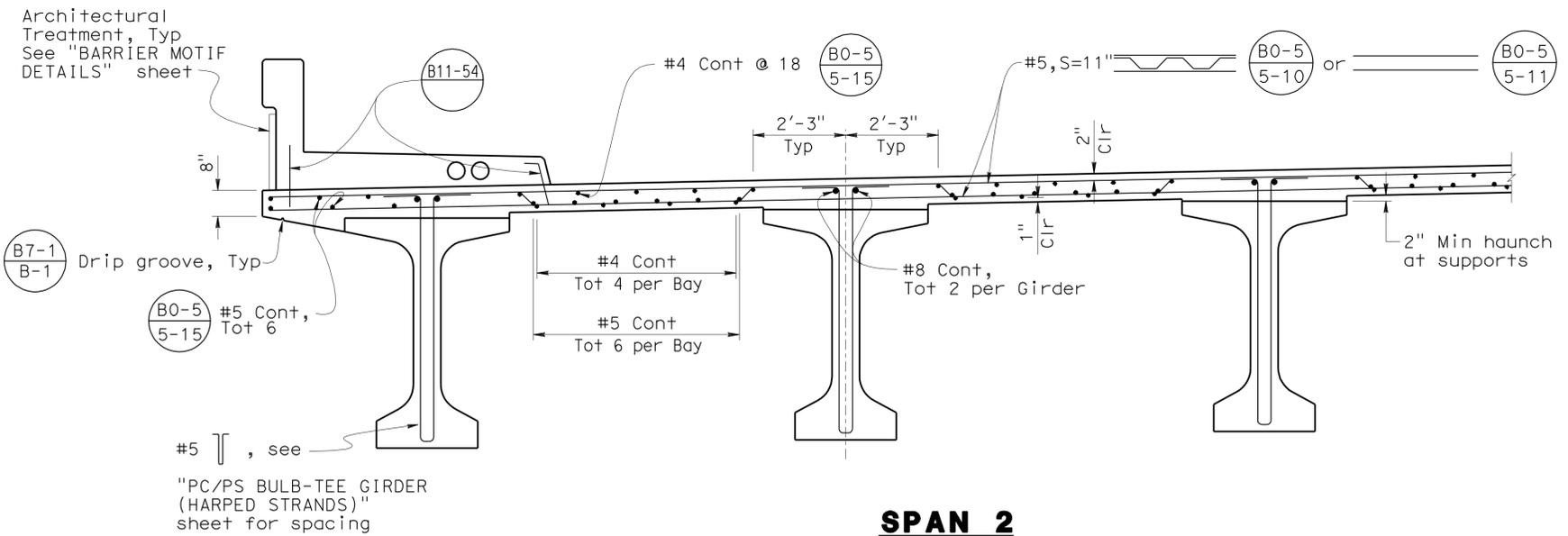


**SPAN 2
TYPICAL SECTION**
3/16" = 1'-0"

PILE DATA TABLE

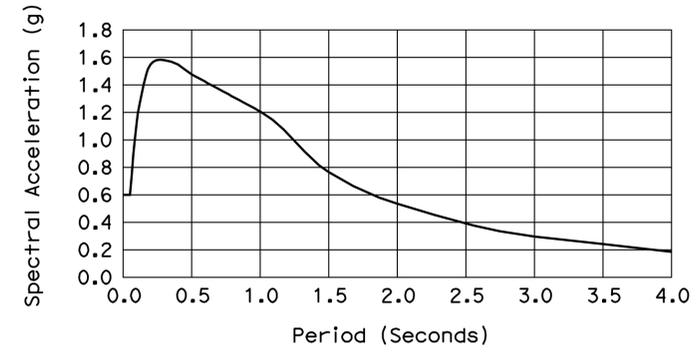
| Location | Pile Type | Nominal Resistance (kips) | | Cut-off Elev (ft) | Design Tip Elevation (ft) | Specified Tip Elevation (ft) |
|----------|-----------|---------------------------|---------|-------------------|---------------------------|------------------------------|
| | | Compression | Tension | | | |
| Abut 1 | 24" CIDH | 300 | N/A | 62.70 | 20 (a) | 20 (a) |
| Abut 2 | 36" CIDH | 740 | N/A | 59.50 | -15 (a) | -15 (a) |
| Abut 3 | 48" CIDH | 770 | N/A | 60.25 | -6 (a) | -6 (a) |

Notes:
1. Design Tip Elevation is controlled by: (a) Compression (b) Lateral Capacity (c) Settlement
2. The specified tip elevation shall not be raised above the design tip elevation for Tension, Settlement, and Lateral Load



**SPAN 2
PART TYPICAL SECTION**
1/2" = 1'-0"

Acceleration Response Spectra (with 5% Damping)



MODIFIED SDC ARS CURVE

| | | | | | | |
|----------------------------------------------------------|-------------------------|------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------|
| DESIGN | BY Jay Posey | CHECKED Greg Jones | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. 53C2185 | N. FORK COYOTE CRK BR (REPLACEMENT) SPAN 2 TYPICAL SECTION |
| | DETAILS BY Pauline Tong | CHECKED Greg Jones | | | POST MILE 1.51 | |
| | QUANTITIES BY Jay Posey | CHECKED Antonio Picazo | | | | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES |
| | | | | 0 1 2 3 | REVISION DATES | SHEET 14 OF 30 |

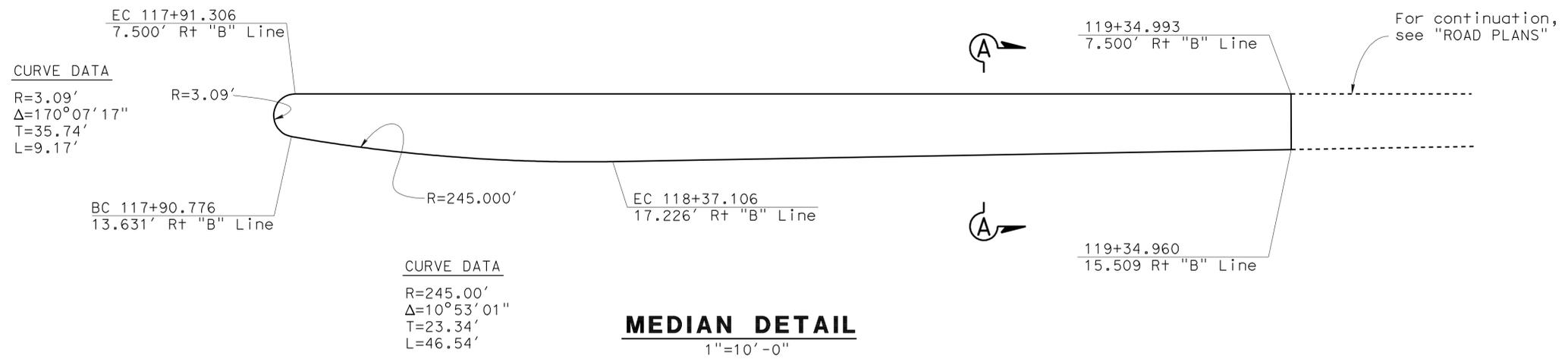
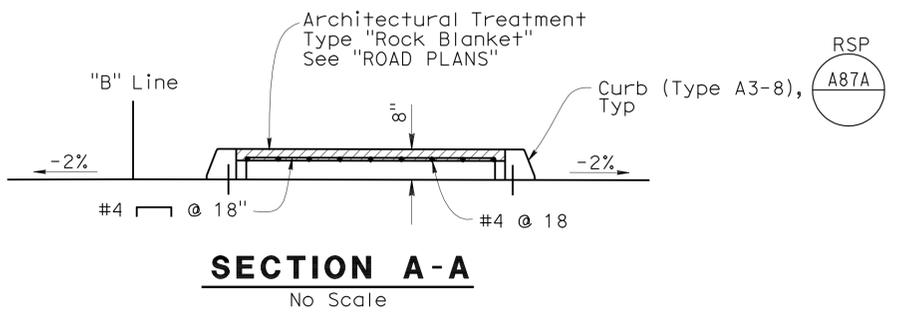
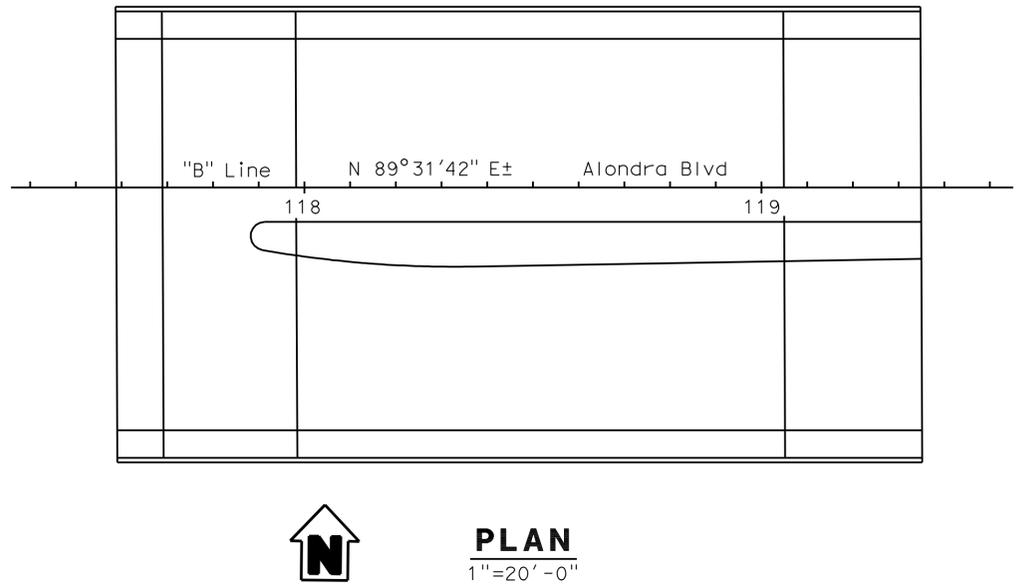
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 481 | 602 |

Phu V. Nguyen 3-2-11
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6-27-11
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REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



| | | |
|------------|-----------------|------------------------|
| DESIGN | BY Jay Posey | CHECKED Greg Jones |
| DETAILS | BY Pauline Tong | CHECKED Greg Jones |
| QUANTITIES | BY Jay Posey | CHECKED Antonio Picazo |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

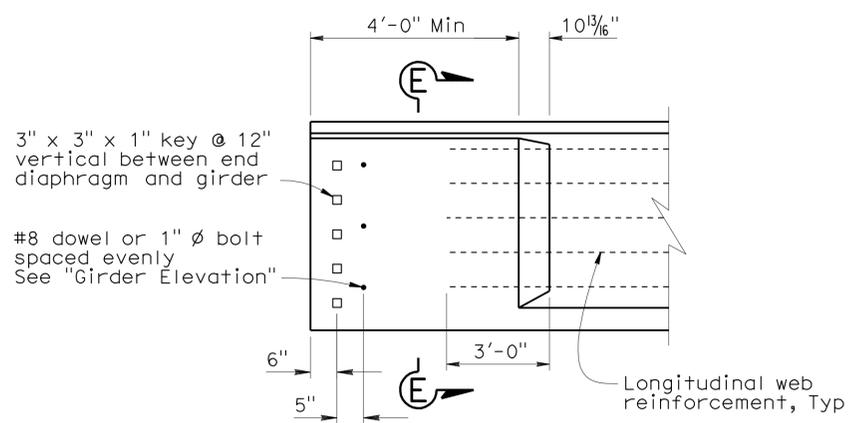
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 11

| | | |
|-----------------------|---------|--------------------------------------------|
| BRIDGE NO. | 53C2185 | N. FORK COYOTE CRK BR (REPLACEMENT) |
| POST MILE | 1.51 | |
| MEDIAN DETAILS | | |

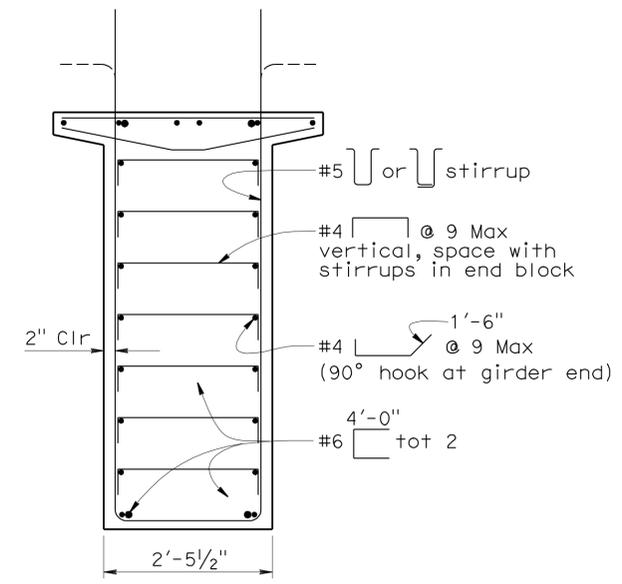
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 483 | 602 |

Phu V. Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



END BLOCK - ELEVATION

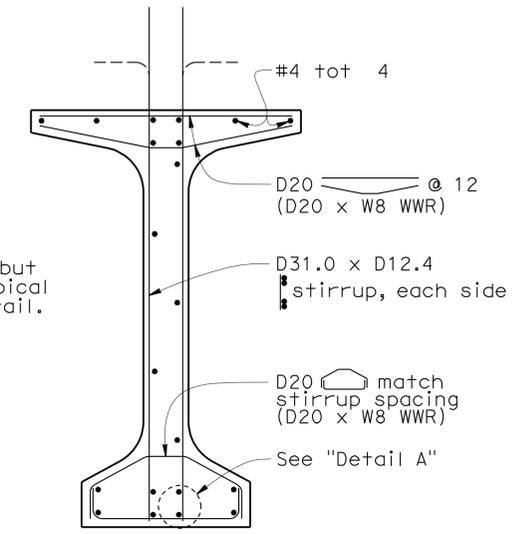


Note: For details shown but not noted, see "Typical Girder Section" detail.

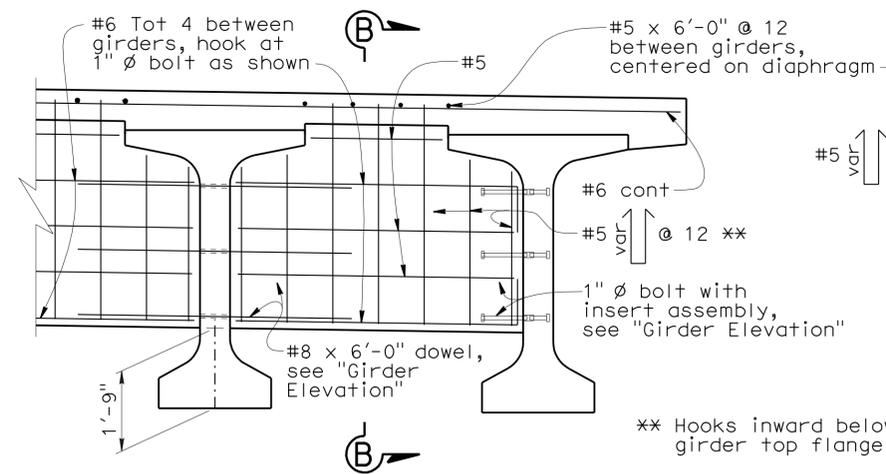
SECTION E-E

NOTE:
For 'Girder Elevation' and 'Typical Girder Section', see "PC/PS BULB-TEE GIRDER" sheet.

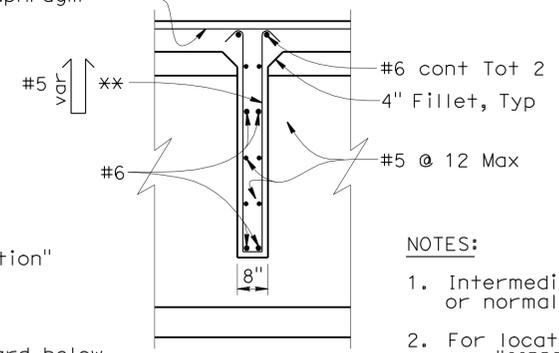
- NOTES:
- For details shown but not noted, see "Typical Girder Section" detail.
 - W8 WWR not shown.



OPTIONAL WELDED WIRE REINFORCEMENT (WWR) DETAIL

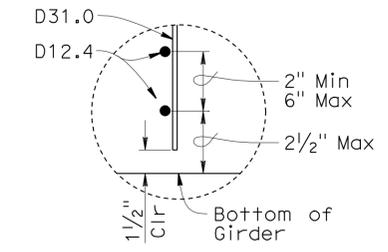


INTERMEDIATE DIAPHRAGM



SECTION B-B

- NOTES:
- Intermediate diaphragm may be vertical or normal to deck grade
 - For location of intermediate Diaphragm, see "GIRDER LAYOUT" sheet



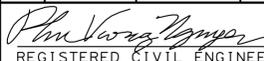
DETAIL A

- NOTES:
- Bottom of stirrup WWR detail shown, top similar.
 - Longitudinal wire area shall be 40% or greater of vertical deformed wire's area.

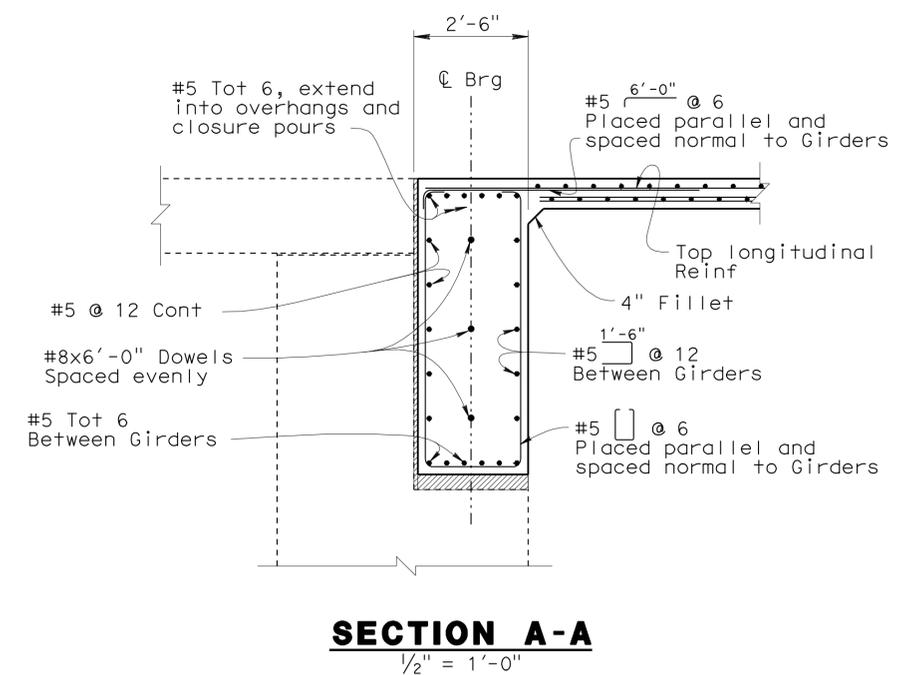
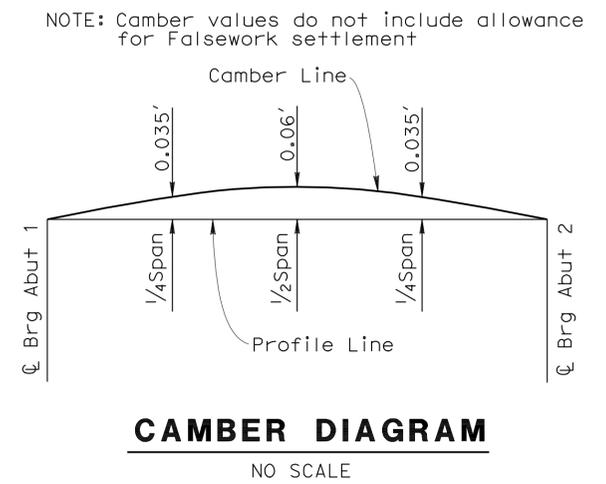
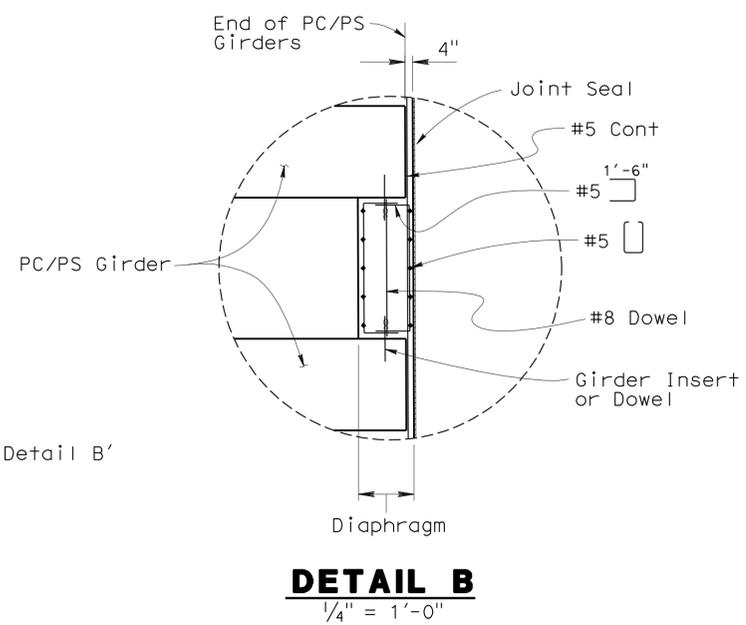
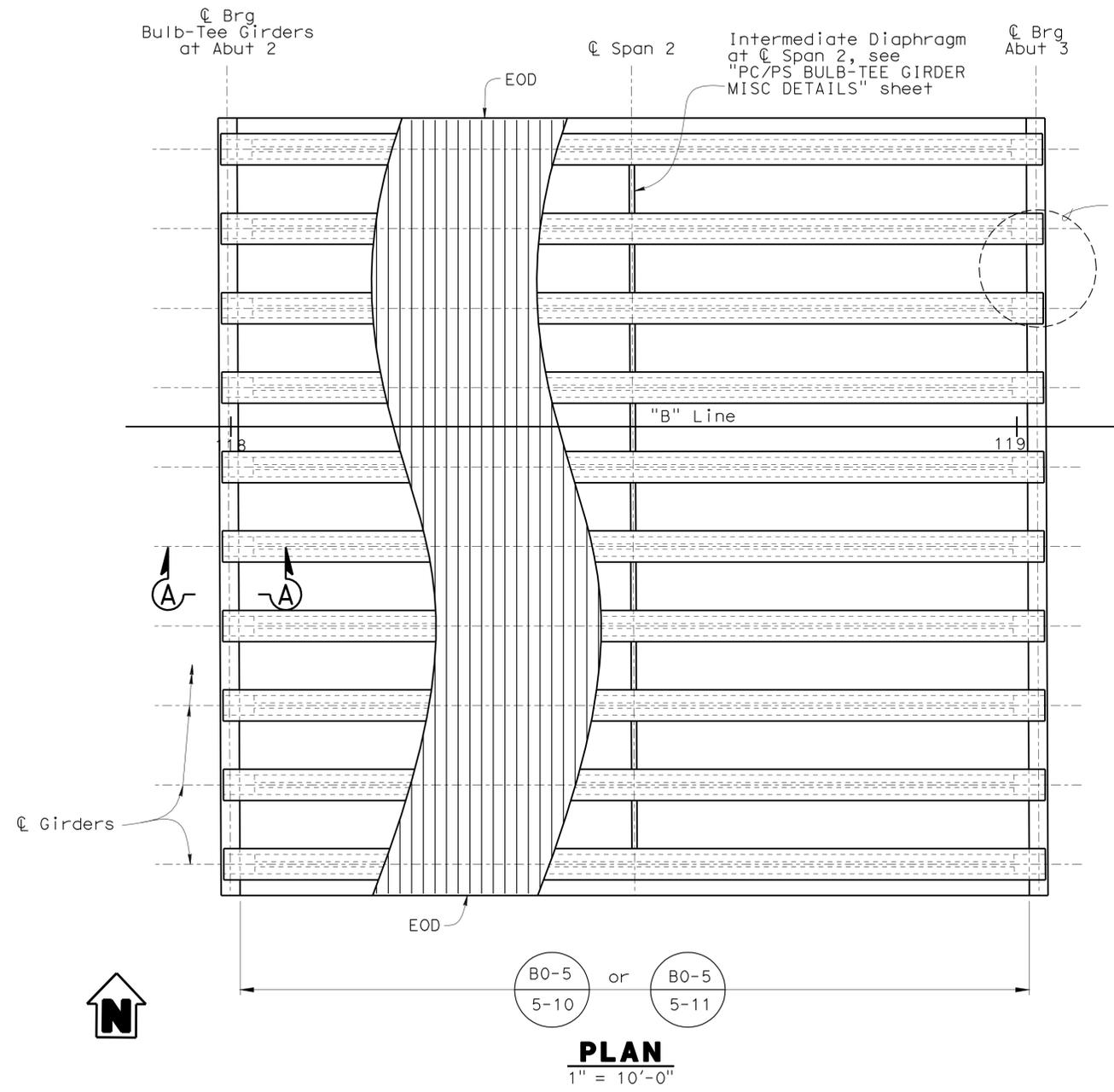
NO SCALE

| | | | | | | | | |
|----------------------------------------------------------|------------|-----------------|------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------|----------------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN | BY Jay Posey | CHECKED Greg Jones | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | N. FORK COYOTE CRK BR (REPLACEMENT) | |
| | DETAILS | BY Pauline Tong | CHECKED Greg Jones | | | 53C2185 | | |
| | QUANTITIES | BY Jay Posey | CHECKED Antonio Picazo | | | POST MILE 1.51 | | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET 17 OF 30 |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 484 | 602 |

 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



| | | |
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| DESIGN | BY Jay Posey | CHECKED Greg Jones |
| DETAILS | BY Pauline Tong | CHECKED Greg Jones |
| QUANTITIES | BY Jay Posey | CHECKED Antonio Picazo |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

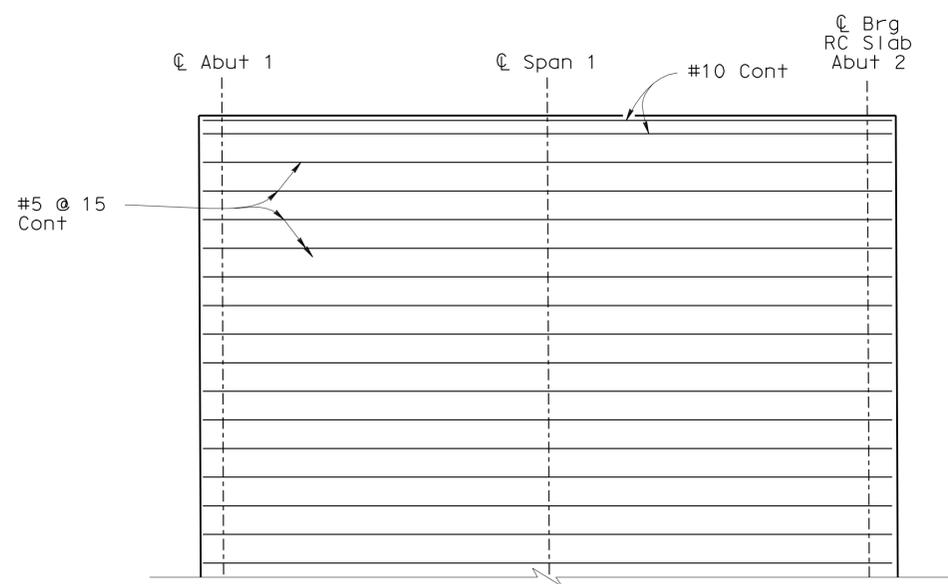
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 11

| | |
|------------|---------|
| BRIDGE NO. | 53C2185 |
| POST MILE | 1.51 |

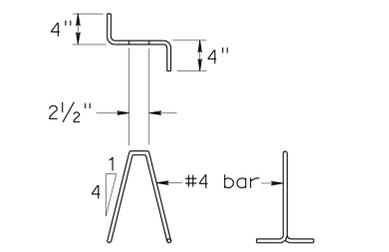
N. FORK COYOTE CRK BR (REPLACEMENT)
GIRDER LAYOUT

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 485 | 602 |

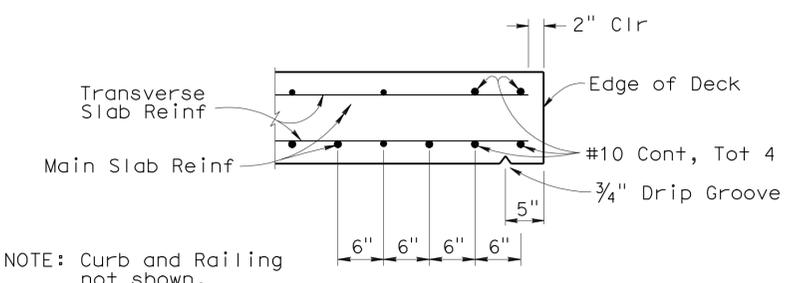
Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
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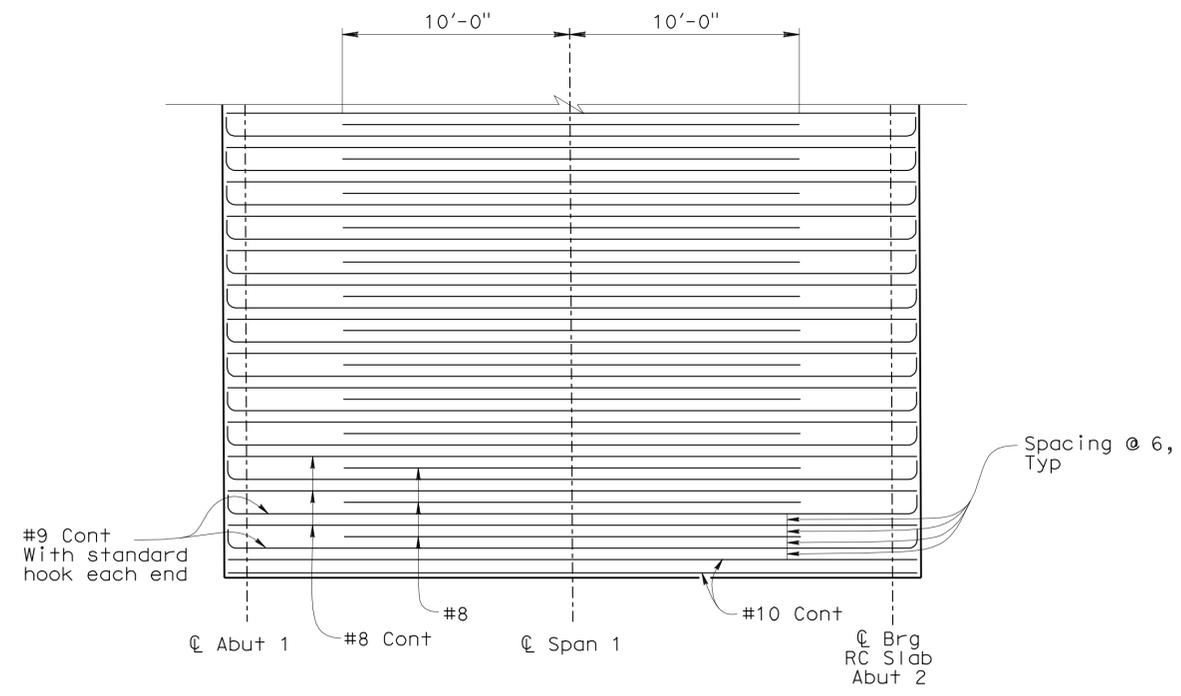
PART PLAN - TOP SLAB REINFORCEMENT
 $\frac{1}{4}'' = 1'-0''$



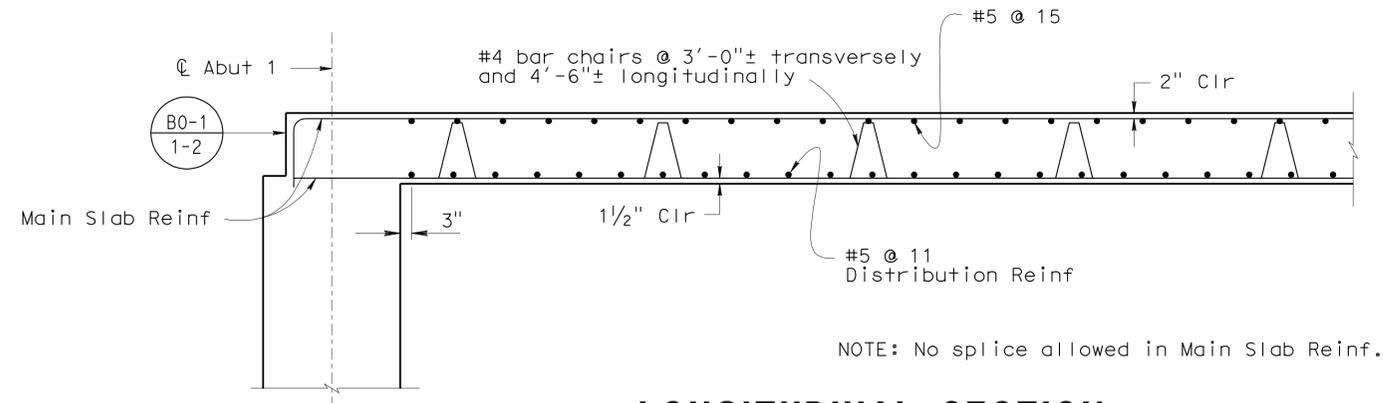
BAR CHAIR DETAIL
 NO SCALE



EDGE OF SLAB DETAILS
 No Scale



PART PLAN - BOTTOM SLAB REINFORCEMENT
 $\frac{1}{4}'' = 1'-0''$



LONGITUDINAL SECTION
 $\frac{1}{2}'' = 1'-0''$

| | | |
|------------|-----------------|------------------------|
| DESIGN | BY Jay Posey | CHECKED Greg Jones |
| DETAILS | BY Pauline Tong | CHECKED Greg Jones |
| QUANTITIES | BY Jay Posey | CHECKED Antonio Picazo |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

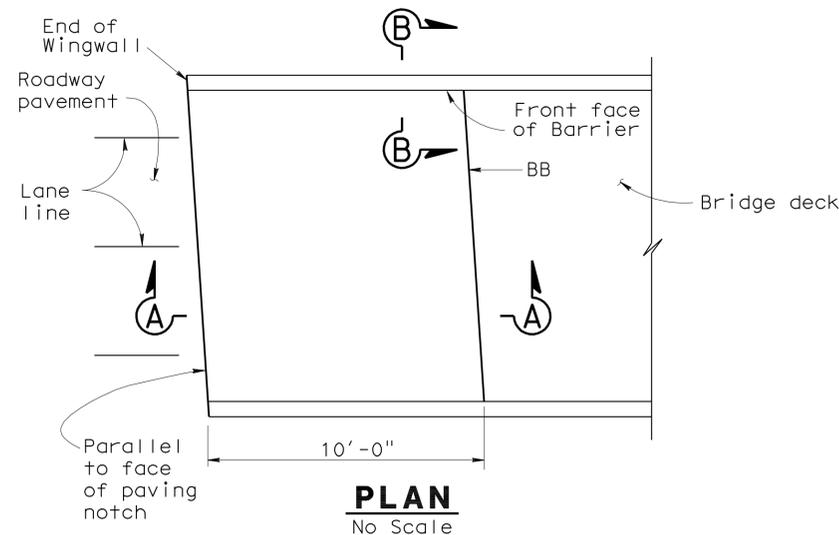
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **11**

| | |
|------------|---------|
| BRIDGE NO. | 53C2185 |
| POST MILE | 1.51 |

N. FORK COYOTE CRK BR (REPLACEMENT)
SLAB REINFORCEMENT

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
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| 07 | LA | 5 | 1.2/2.1 | 486 | 602 |

REGISTERED CIVIL ENGINEER DATE 3-2-11
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE 6-27-11
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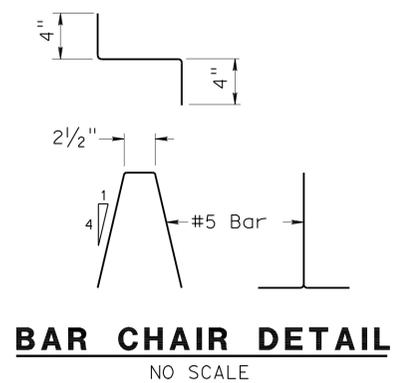
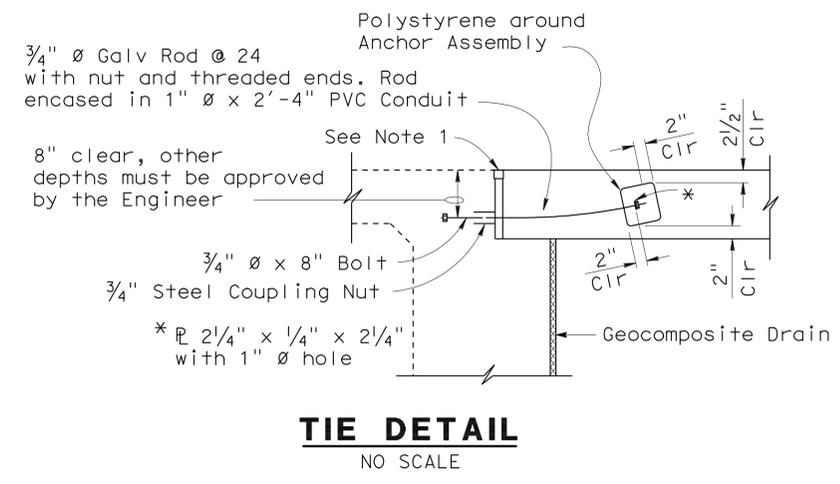
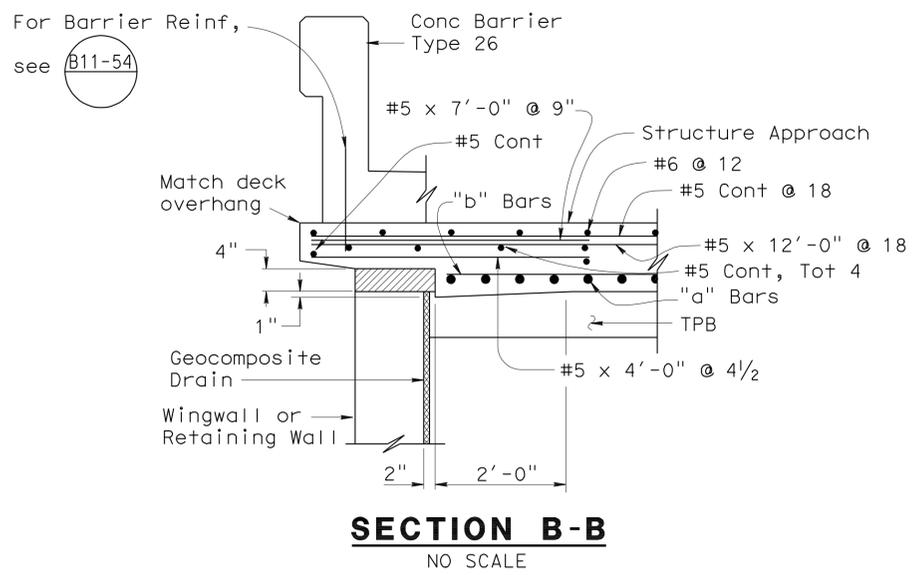
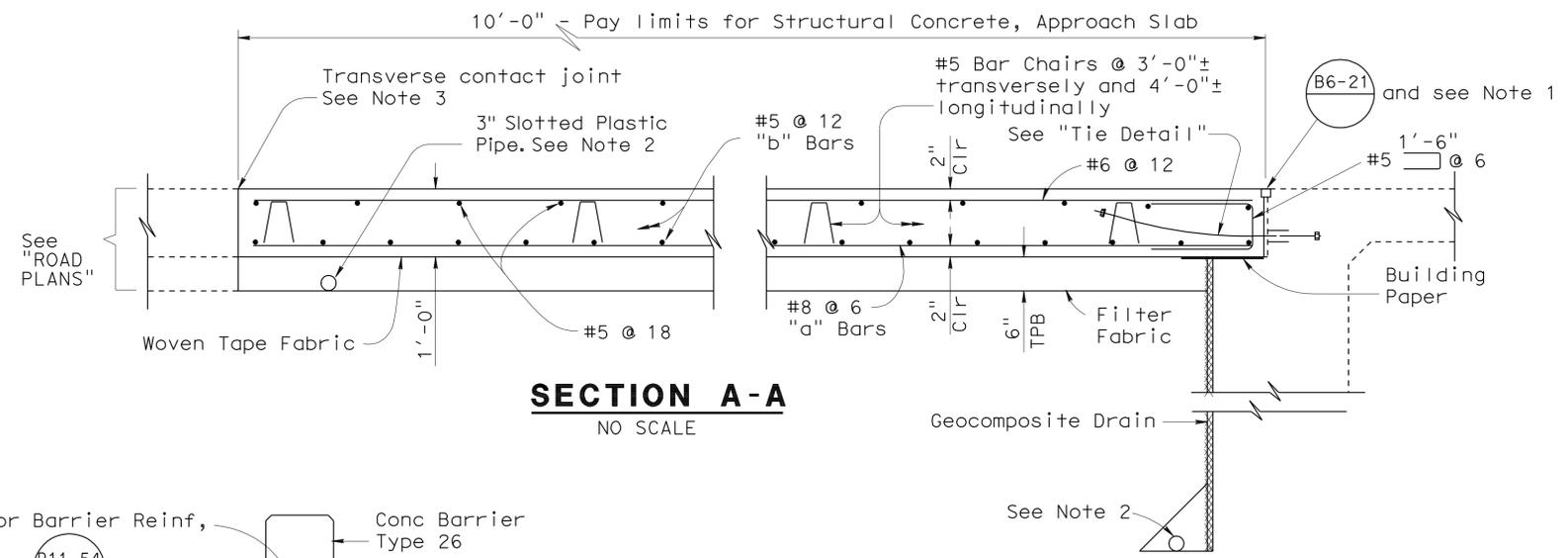


NOTES:

- For details not noted or shown, see Structure Plans.
- For drainage details, see "Structure Approach Drainage Details" sheet.
- For transverse contact joint with new PCC paving, refer to Standard Plan P10.
- At the contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along ϕ roadway.

LEGEND:

Polystyrene to be removed.



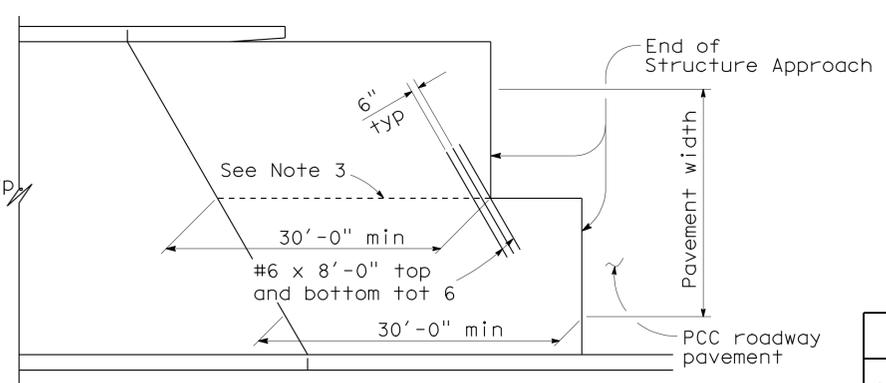
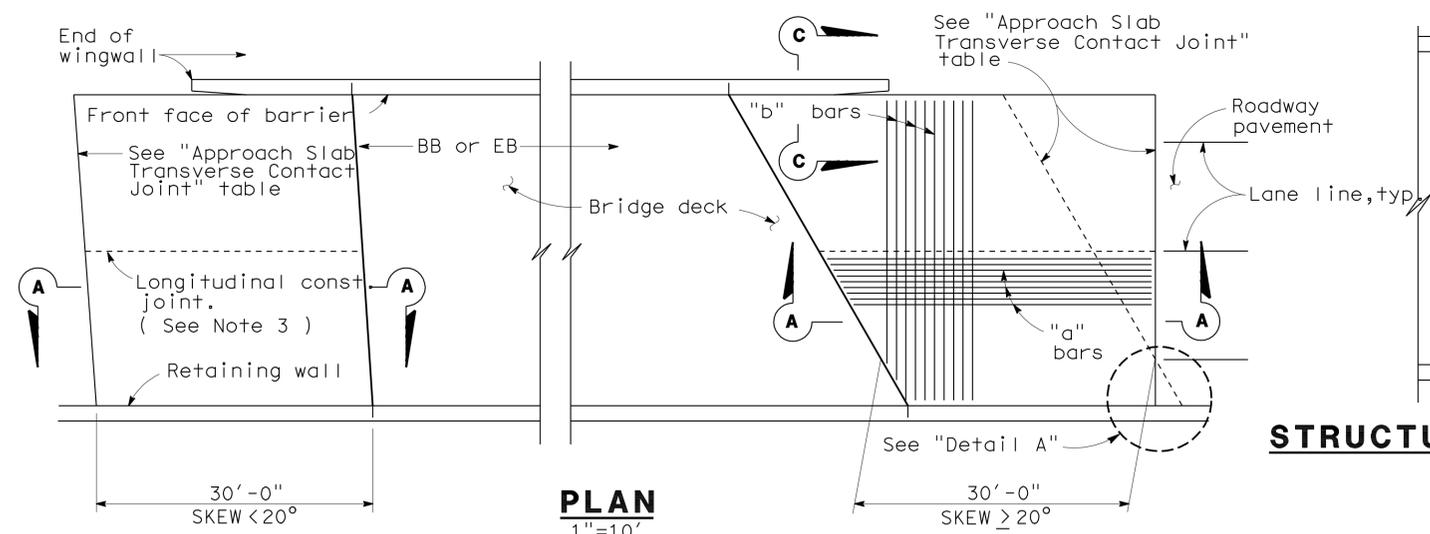
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|----------------------------------------------------------|------------|-----------------|------------------------|-----------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------|--|--|--|----------|-------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN | BY Jay Posey | CHECKED Greg Jones | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | N. FORK COYOTE CRK BR (REPLACEMENT) | | | | | |
| | DETAILS | BY Pauline Tong | CHECKED Greg Jones | | | 53C2185 | STRUCTURE APPROACH, ABUTMENT 1 | | | | | |
| | QUANTITIES | BY Jay Posey | CHECKED Antonio Picazo | | | POST MILE | 1.51 | | | | | |
| | | | | CU 07227 EA 215911 | | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | | | | SHEET 20 | OF 30 |

USERNAME => hrm001.in DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:01

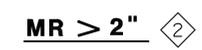
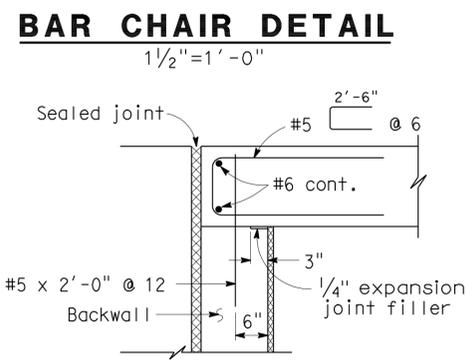
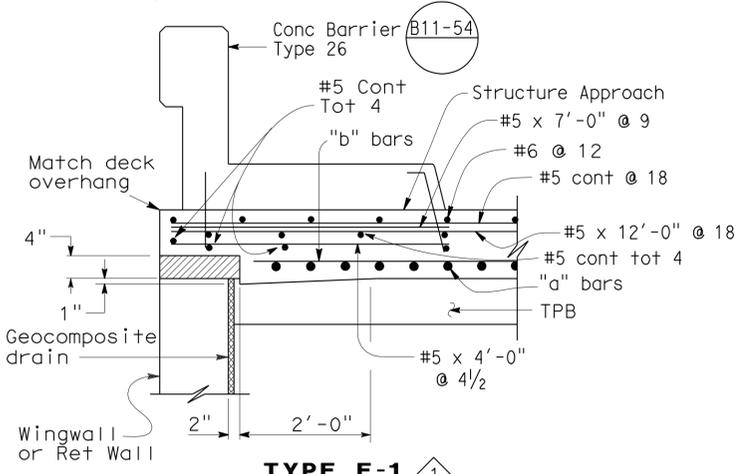
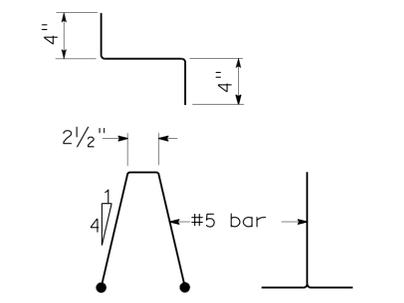
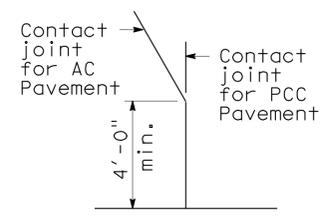
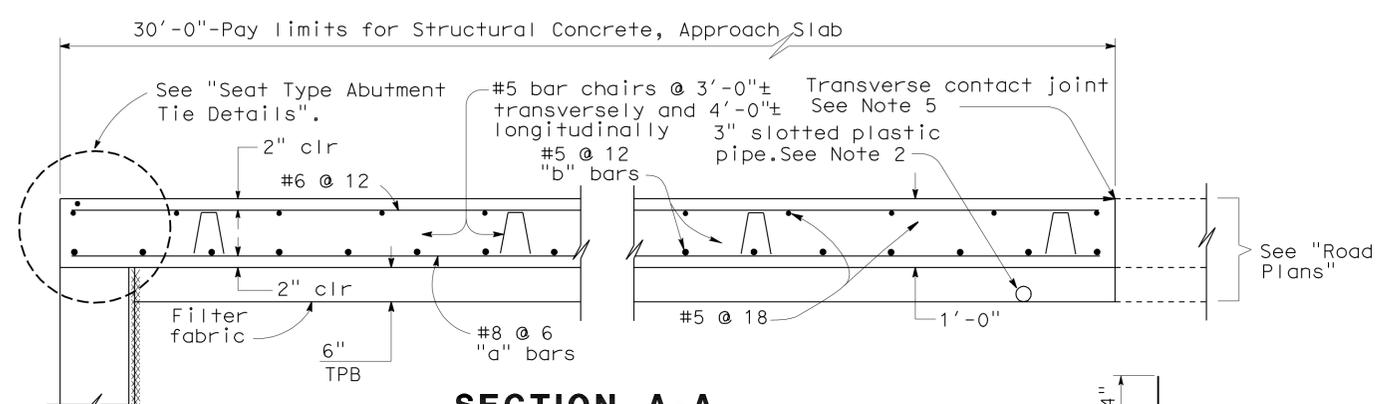
| DIST. | COUNTY | ROUTE | MILE POST TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|-------|--------|-------|-------------------------|-----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 487 | 602 |

Registered Professional Engineer
 Phu V. Nguyen
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

3-2-11
 REGISTERED ENGINEER - CIVIL
 6-27-11
 PLANS APPROVAL DATE
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| APPROACH SLAB TRANSVERSE CONTACT JOINT | | |
|----------------------------------------|----------------------------------------|----------------------------------|
| APPROACH SKEW | WITH AC ROADWAY PAVEMENT | WITH PCC ROADWAY PAVEMENT |
| < 20° | Parallel to face of paving notch | Parallel to face of paving notch |
| 20° - 45° | Parallel to face of P N use (Detail A) | Stagger lines 24' to 36' apart. |
| > 45° | Parallel to face of P N use (Detail A) | Stagger at each lane line. |



- NOTES:**
- For details not shown, see Structure Plans. For MR ≤ 2, adjust bar reinforcement to clear a sawcut for sealed joint, when required.
 - For drainage details, see "Structure Approach Drainage Details" sheet.
 - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
 - End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable.
 - For transverse contact joint with new PCC paving, refer to Standard Plan P10.
 - At the contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along roadway.

LEGEND:
 Remove all polystyrene.

STANDARD DRAWING

| | | | |
|--------------|--------------|----------------|--------------|
| RELEASE DATE | DESIGN BY | CHECKED | RELEASED BY |
| Revised | M. TRAFFALIS | E. THORKILDSEN | |
| FILE NO. | DETAILS BY | CHECKED | |
| xs3-120e | R. YEE | E. THORKILDSEN | |
| | SUBMITTED BY | DRAWING DATE | OFFICE CHIEF |
| | M. HA | 4/98 | |

- 1 Revised Detail
- 2 Deleted Detail

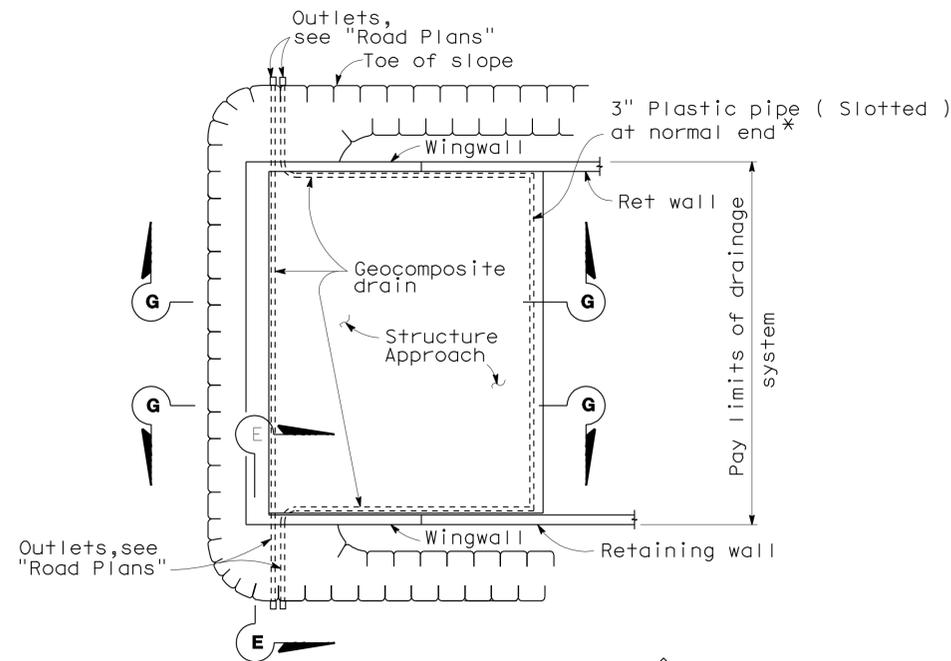
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 53C2185
 MILE POST 1.51
N. FORK COYOTE CRK BR (REPLACEMENT)
STRUCTURE APPROACH TYPE N(30S)

| DIST. | COUNTY | ROUTE | MILE POST TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
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Phu V. Nguyen 3-2-11
 REGISTERED ENGINEER - CIVIL
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

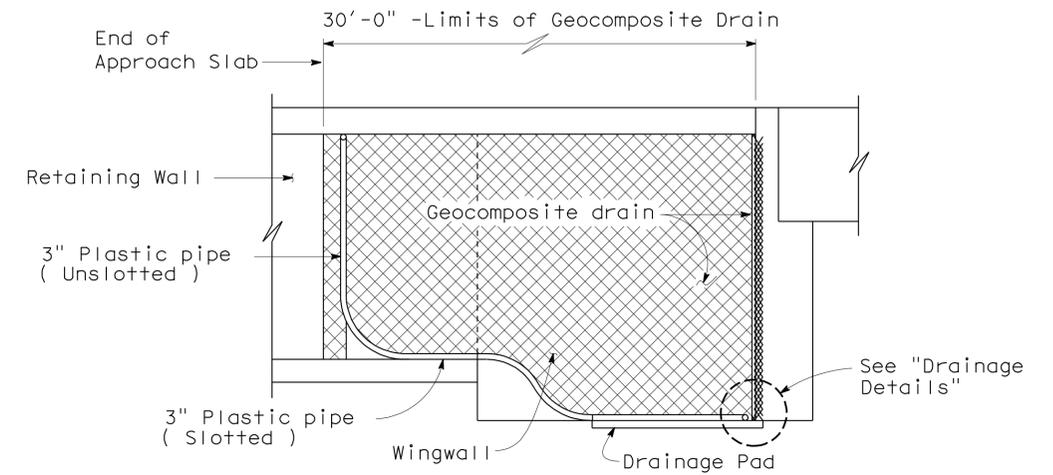
6-27-11
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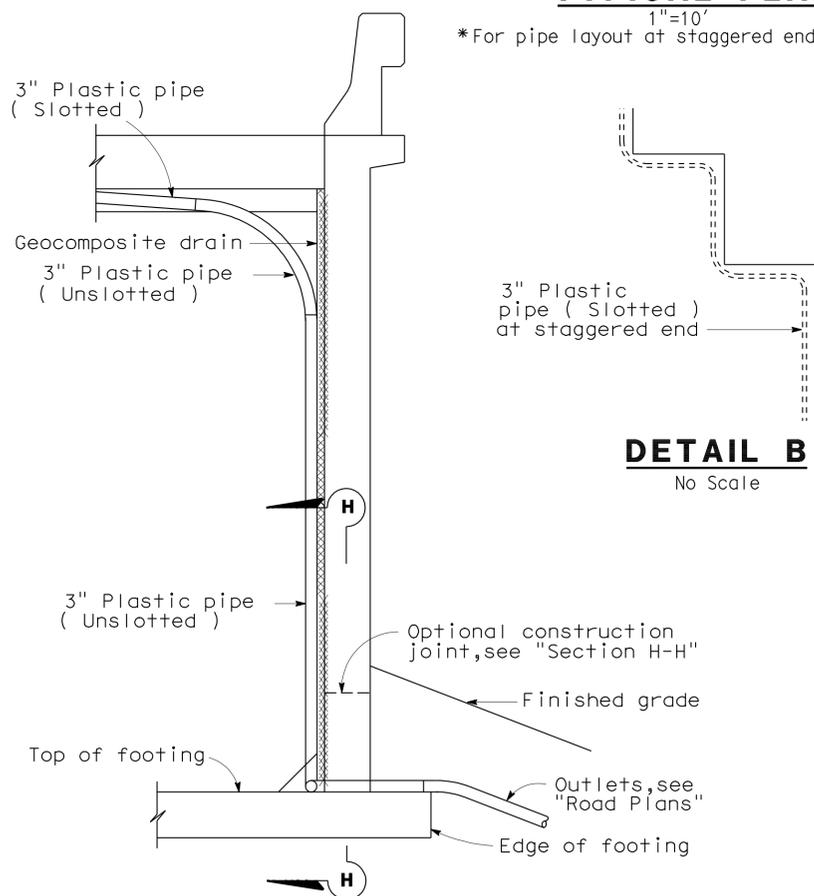
TYPICAL PLAN 1
1"=10'

*For pipe layout at staggered end, see "Detail B".

CANTILEVER WINGWALL SECTION F-F 2
1/4"=1'-0"



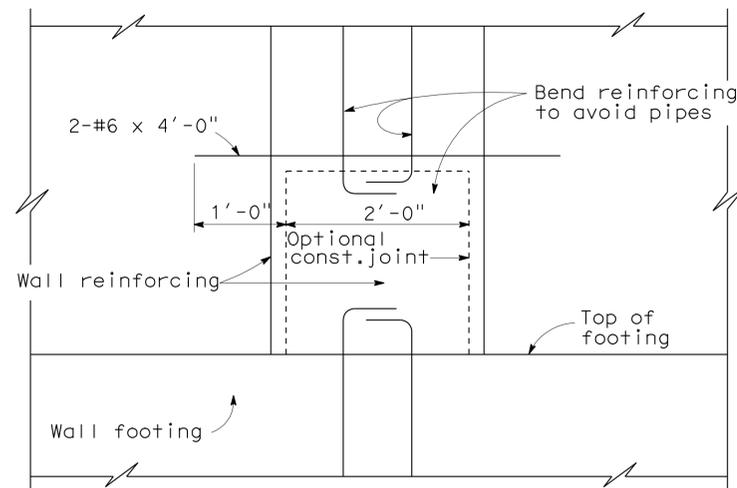
RETAINING WALL WINGWALL SECTION G-G 1
1/4"=1'-0"



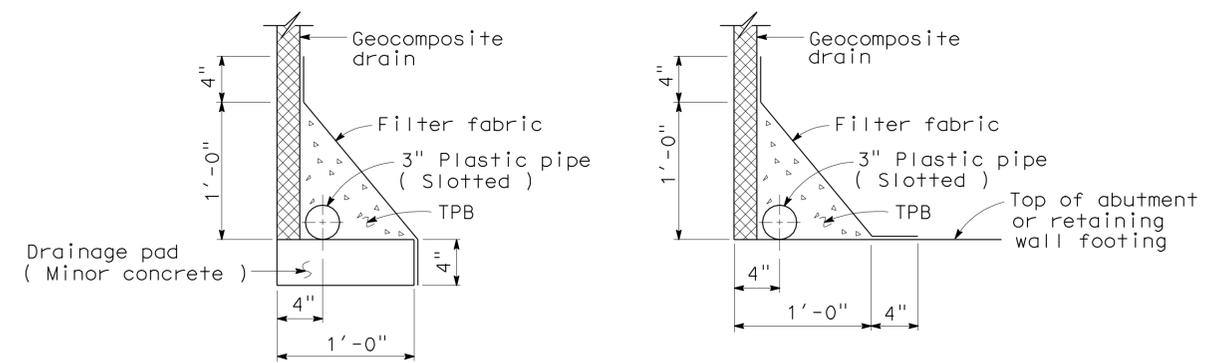
SECTION E-E
1/2"=1'-0"

NOTE: Bends and junctions in 3" plastic pipe are 30" radius min.

DETAIL B
No Scale



SECTION H-H
1"=1'-0"



WITHOUT FOOTING

WITH FOOTING

DRAINAGE DETAILS
1/2"=1'-0"

SPECIAL DETAIL

| STANDARD DRAWING | | | |
|------------------|--------------|----------------|--------------|
| RELEASE DATE | DESIGN BY | CHECKED | RELEASED BY |
| Revised | M. TRAFFALIS | E. THORKILDSEN | |
| FILE NO. | DETAILS BY | CHECKED | |
| xs3-110e | R. YEE | E. THORKILDSEN | |
| | SUBMITTED BY | DRAWING DATE | OFFICE CHIEF |
| | M. HA | 4/98 | |

- 1 Revised Detail
- 2 Deleted Detail

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

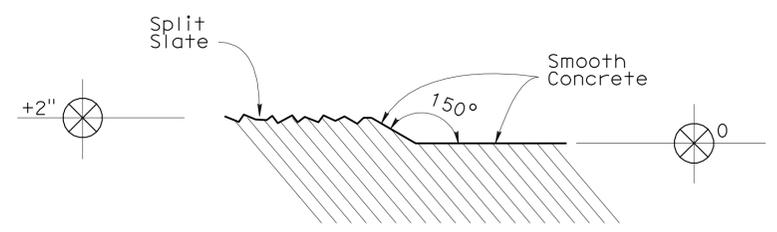
DIVISION OF ENGINEERING SERVICES

BRIDGE NO.
53C2185
MILE POST
1.51

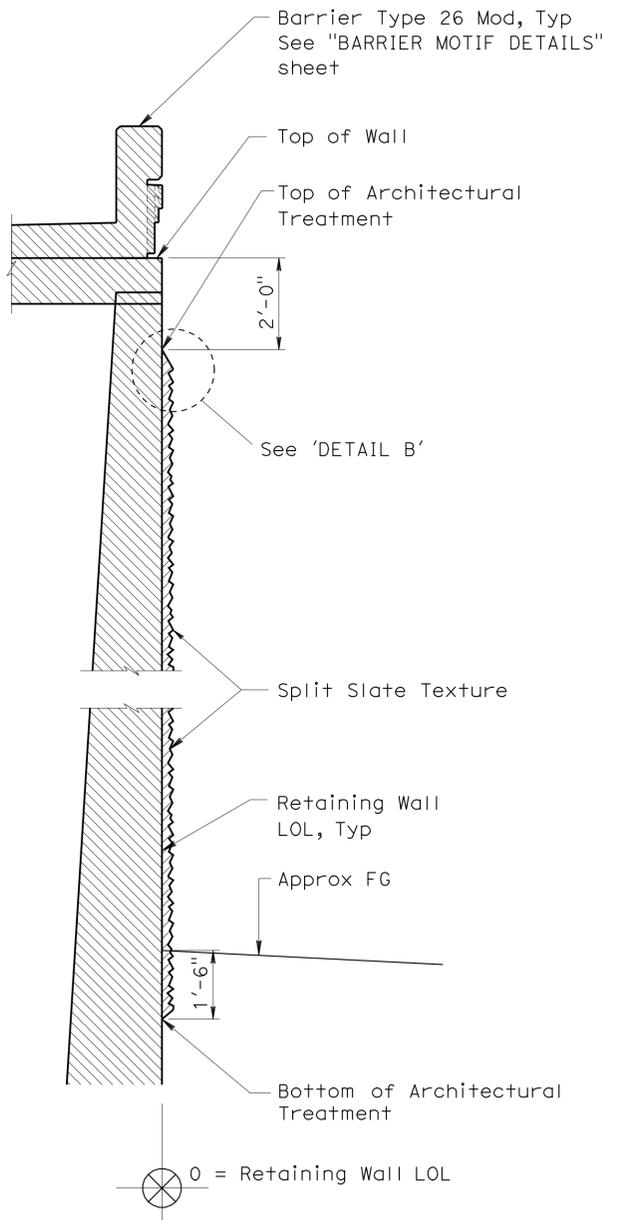
**N. FORK COYOTE CRK BR (REPLACEMENT)
STRUCTURE APPROACH DRAINAGE DETAILS**

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 490 | 602 |

Phu Vuong Tong 3-2-11
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 6-27-11
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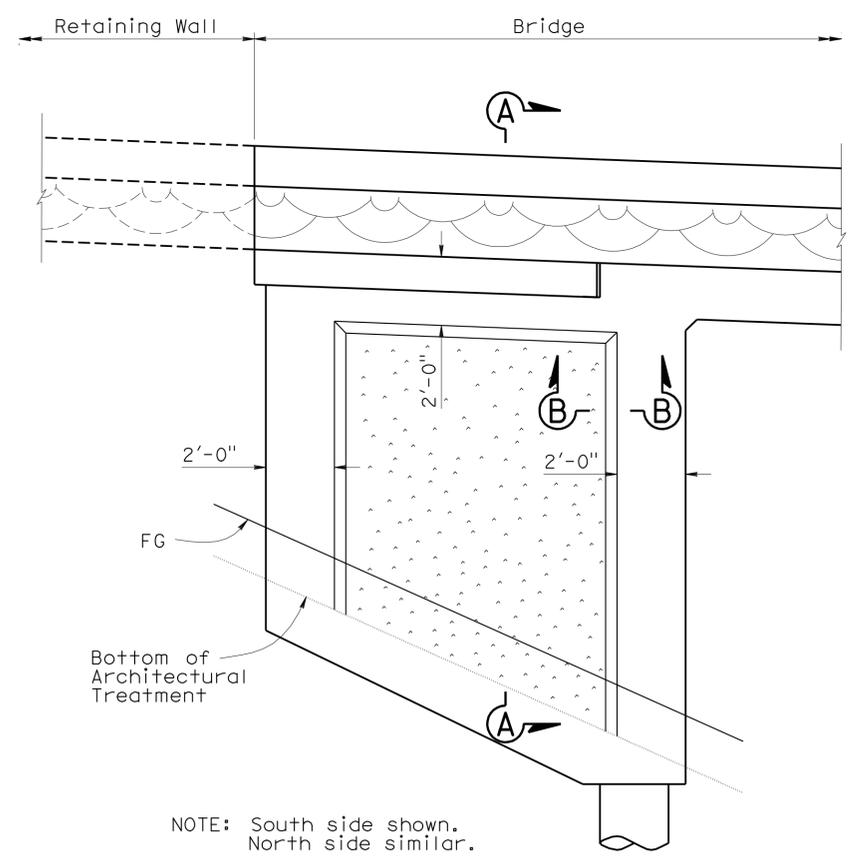
SECTION B-B
NO SCALE



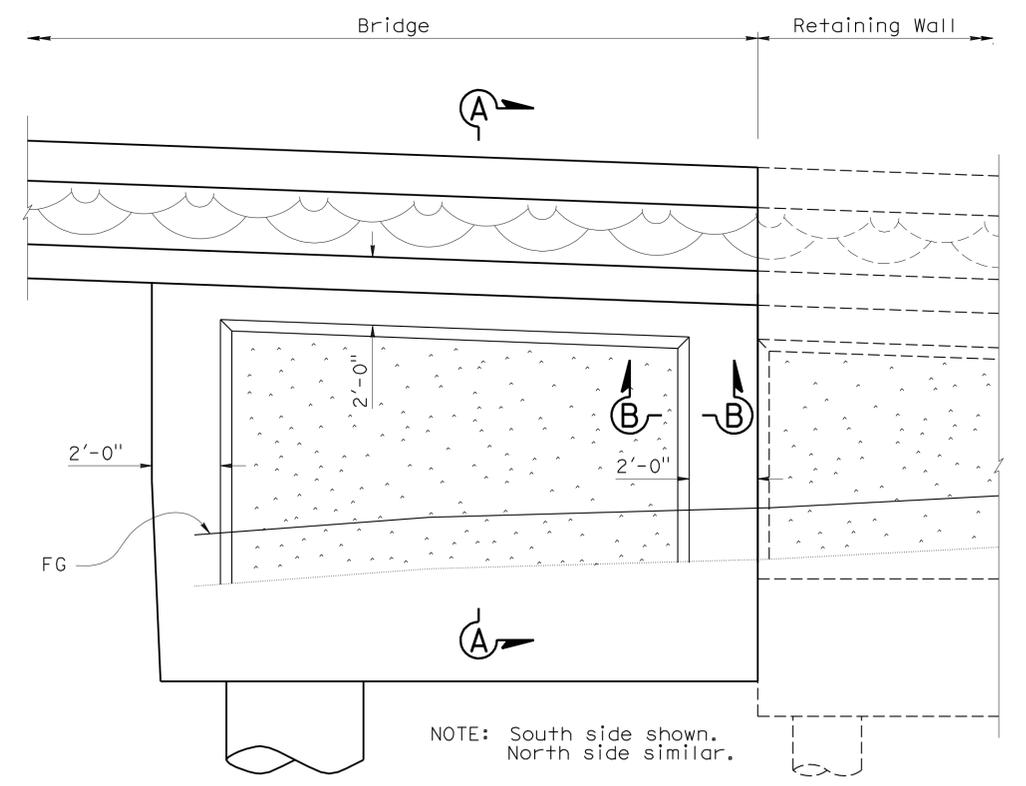
SECTION A-A
NO SCALE

- NOTES:**
- All reference to surface dimensions of wall details are from datum 0 = retaining wall LOL, typical
 - For 'Detail B' and 'Split Slate Texture' detail, see "ARCHITECTURAL TREATMENT DETAILS NO. 1" sheet

- LEGEND:**
- Split Slate Texture Concrete Surface
 - Smooth Concrete Surface



ABUT 1 WINGWALL ELEVATION
NO SCALE



ABUT 3 WINGWALL ELEVATION
NO SCALE

NOTE: South side shown. North side similar.

NOTE: South side shown. North side similar.

| | | |
|------------|-----------------|------------------------|
| DESIGN | BY Jay Posey | CHECKED Greg Jones |
| DETAILS | BY Pauline Tong | CHECKED Greg Jones |
| QUANTITIES | BY Jay Posey | CHECKED Antonio Picazo |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 11

| | |
|------------|---------|
| BRIDGE NO. | 53C2185 |
| POST MILE | 1.51 |

N. FORK COYOTE CRK BR (REPLACEMENT)
ARCHITECTURAL TREATMENT DETAILS NO. 2

BENCH MARK

BM Y11900 Elev. 68.99'
 L&CALTRANS TAG IN N CB 1' E/O
 BCR @ NE COR VALLEY VIEW AV & ALONDRA BL
 NAVD 88

| Borehole Number | Drill Method | Drilling Equipment | Hammer Type | Avg. Hammer Efficiency, ETR (%) |
|-----------------|------------------|----------------------|-------------|---------------------------------|
| R-08-015 | Rotary Wash | Mayhew 1000 | Manual | 63 |
| R-09-104 | Rotary Wash | Mayhew 1000 | Automatic | 71 |
| CPT-08-124 | Cone Penetration | 30 Ton Gregg CPT Rig | N/A | N/A |

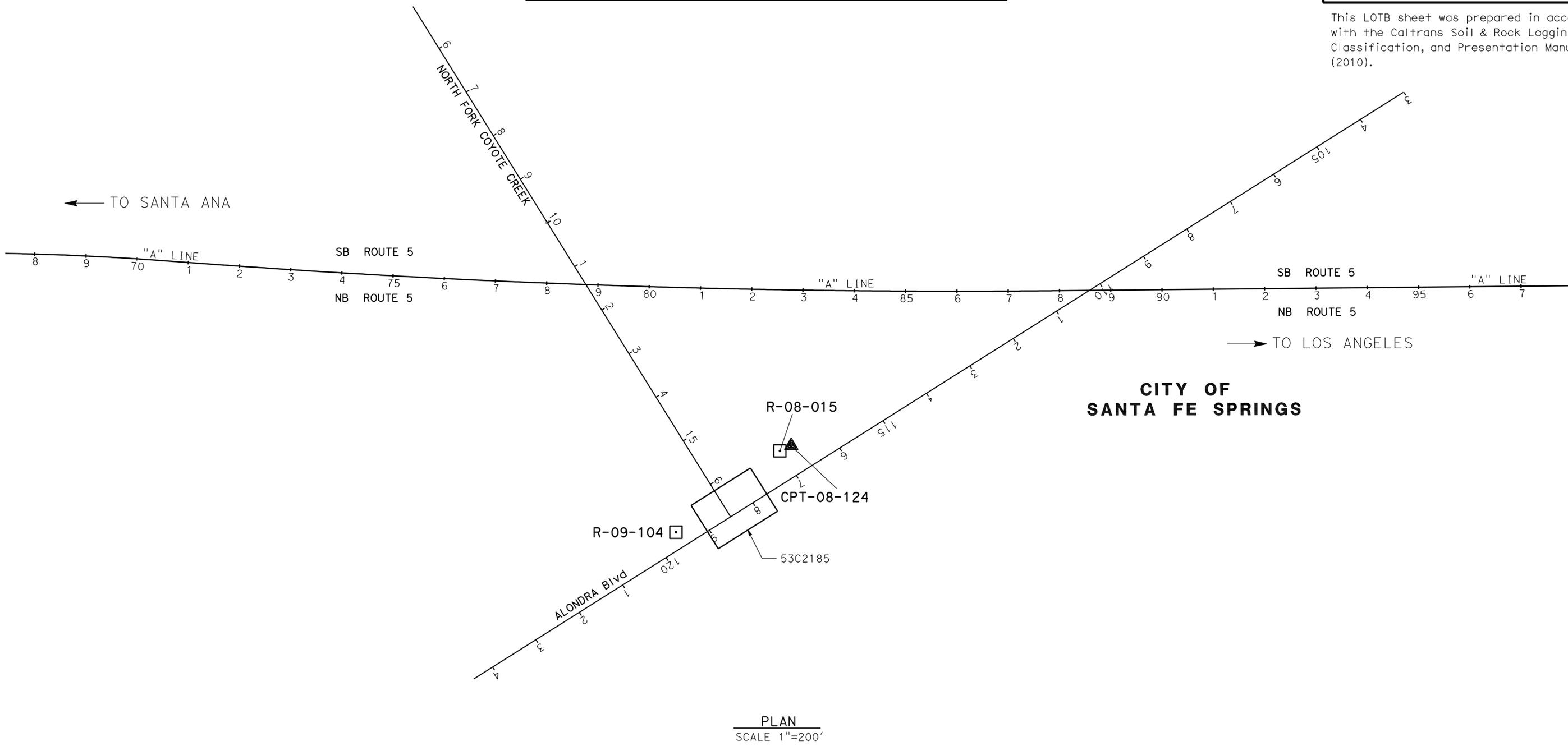


| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 492 | 602 |

05/2010
 REGISTERED GEOTECHNICAL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE

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URS CORPORATION
 2020 EAST FIRST STREET, SUITE 400
 SANTA ANA, CA 92705



This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010).

| | | | | | | | | |
|------------------------------------------|------------------------------------------|-------------------------------------------------|-------------------|------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------|----------------|
| ENGINEERING SERVICES | | GEOTECHNICAL SERVICES | | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. 53C2185 | N. FORK COYOTE CRK BR (REPLACEMENT) | |
| FUNCTIONAL SUPERVISOR NAME: F.MOTAMED | DRAWN BY: P.QUACH CHECKED BY: P.YERRA | FIELD INVESTIGATION BY: P.NARANJO/P.MCDONALD | POST MILE 1.51 | | | LOG OF TEST BORINGS SHEET 1 OF 5 | | |
| 065 CIVIL LOG OF TEST BORINGS SHEET | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | CU 59A0590 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET 26 OF 30 |

DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:02 USERNAME => fmmot10

REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2010).

| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
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05/2010
 REGISTERED GEOTECHNICAL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE

FARID MOTAMED
 No. 2738
 Exp. 6/30/11
 REGISTERED PROFESSIONAL ENGINEER
 GEOTECHNICAL
 STATE OF CALIFORNIA

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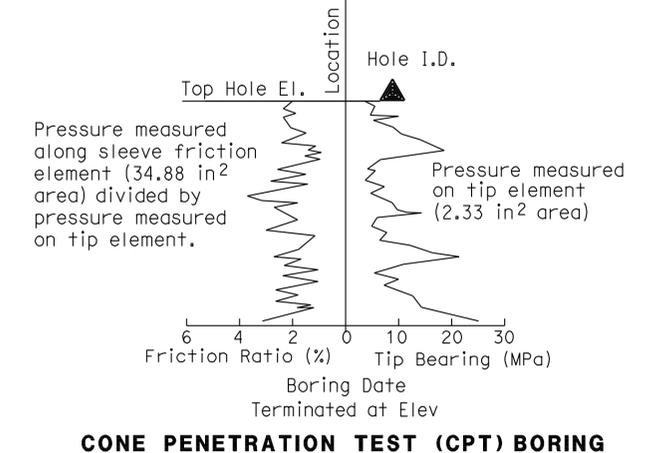
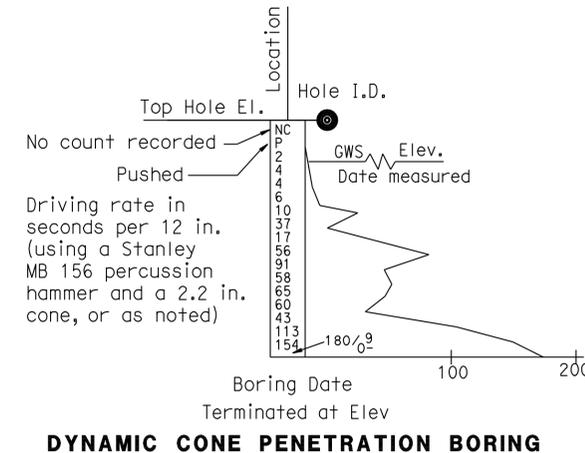
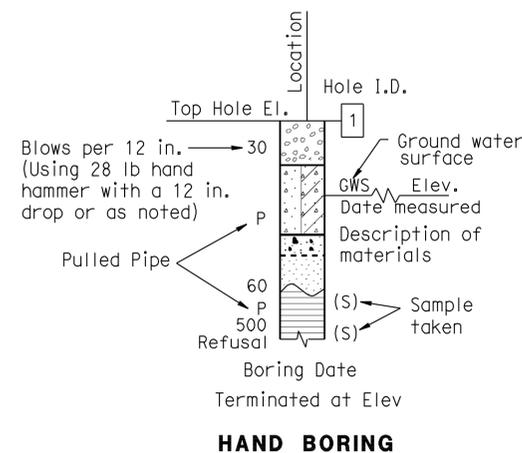
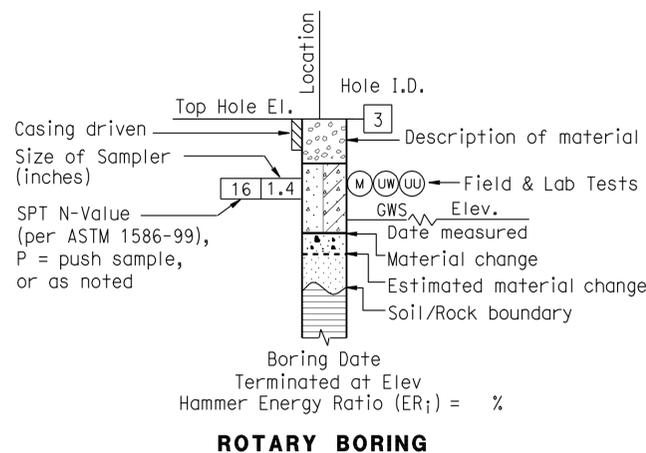
URS CORPORATION
 2020 EAST FIRST STREET, SUITE 400
 SANTA ANA, CA 92705

| CEMENTATION | |
|-------------|-------------------------------------------------------------|
| Description | Criteria |
| Weak | Crumbles or breaks with handling or little finger pressure. |
| Moderate | Crumbles or breaks with considerable finger pressure. |
| Strong | Will not crumble or break with finger pressure. |

| BOREHOLE IDENTIFICATION | | |
|-------------------------|-----------|--------------------------------------------------------------|
| Symbol | Hole Type | Description |
| | A | Auger Boring (hollow or solid stem bucket) |
| | R | Rotary drilled boring (conventional) |
| | RW | Rotary drilled with self-casing wire-line |
| | RC | Rotary core with continuously-sampled, self-casing wire-line |
| | P | Rotary percussion boring (air) |
| | R | Rotary drilled diamond core |
| | HD | Hand driven (1-inch soil tube) |
| | HA | Hand Auger |
| | D | Dynamic Cone Penetration Boring |
| | CPT | Cone Penetration Test (ASTM D 5778) |
| | O | Other (note on LOTB) |

Note: Size in inches.

| CONSISTENCY OF COHESIVE SOILS | | | | |
|-------------------------------|----------------------|--------------------------------------------|--------------------------------|-----------------------------------|
| Description | Shear Strength (tsf) | Pocket Penetrometer Measurement, PP, (tsf) | Torvane Measurement, TV, (tsf) | Vane Shear Measurement, VS, (tsf) |
| Very Soft | Less than 0.12 | Less than 0.25 | Less than 0.12 | Less than 0.12 |
| Soft | 0.12 - 0.25 | 0.25 - 0.5 | 0.12 - 0.25 | 0.12 - 0.25 |
| Medium Stiff | 0.25 - 0.5 | 0.5 - 1 | 0.25 - 0.5 | 0.25 - 0.5 |
| Stiff | 0.5 - 1 | 1 - 2 | 0.5 - 1 | 0.5 - 1 |
| Very Stiff | 1 - 2 | 2 - 4 | 1 - 2 | 1 - 2 |
| Hard | Greater than 2 | Greater than 4 | Greater than 2 | Greater than 2 |



| | | | | | | | | | | | |
|-------------------------------------|--|--------------------------------------------|--|------------------------------|--|-----------------------------------------|--|-------------------------------------------------|--|--------------------------------------------|--|
| ENGINEERING SERVICES | | GEOTECHNICAL SERVICES | | STATE OF CALIFORNIA | | DIVISION OF ENGINEERING SERVICES | | BRIDGE NO. | | N. FORK COYOTE CRK BR (REPLACEMENT) | |
| FUNCTIONAL SUPERVISOR | | DRAWN BY: P.QUACH | | DEPARTMENT OF TRANSPORTATION | | STRUCTURE DESIGN | | 53C2185 | | LOG OF TEST BORINGS SHEET 2 OF 5 | |
| NAME: F.MOTAMED | | CHECKED BY: P.YERRA | | P.NARANJO/P.MCDONALD | | DESIGN BRANCH 11 | | POST MILE | | | |
| 06S CIVIL LOG OF TEST BORINGS SHEET | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | CU 59A0590 | | EA 215911 | | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | REVISION DATES | |
| | | | | 0 1 2 3 | | FILE => 53c-2185-z-10tb2of5.dgn | | 9-24-10 | | SHEET 27 OF 30 | |

DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 19:02 USERNAME => fmmof10

05/2010
DATE

REGISTERED GEOTECHNICAL ENGINEER

6-27-11
PLANS APPROVAL DATE

No. 2738
Exp. 6/30/11

FARID MOTAMED
REGISTERED PROFESSIONAL ENGINEER
GEOTECHNICAL
STATE OF CALIFORNIA

URS CORPORATION
2020 EAST FIRST STREET, SUITE 400
SANTA ANA, CA 92705

| GROUP SYMBOLS AND NAMES | | | |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Graphic/Symbol | Group Names | Graphic/Symbol | Group Names |
| | GW Well-graded GRAVEL | | CL Lean CLAY Lean CLAY with SAND Lean CLAY with GRAVEL SANDY lean CLAY SANDY lean CLAY with GRAVEL GRAVELLY lean CLAY GRAVELLY lean CLAY with SAND |
| | GP Poorly-graded GRAVEL Poorly-graded GRAVEL with SAND | | |
| | GW-GM Well-graded GRAVEL with SILT Well-graded GRAVEL with SILT and SAND | | CL-ML SILTY CLAY SILTY CLAY with SAND SILTY CLAY with GRAVEL SANDY SILTY CLAY SANDY SILTY CLAY with GRAVEL GRAVELLY SILTY CLAY GRAVELLY SILTY CLAY with SAND |
| | GW-GC Well-graded GRAVEL with CLAY (or SILTY CLAY) Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND) | | |
| | GP-GM Poorly-graded GRAVEL with SILT Poorly-graded GRAVEL with SILT and SAND | | ML SILT SILT with SAND SILT with GRAVEL SANDY SILT SANDY SILT with GRAVEL GRAVELLY SILT GRAVELLY SILT with SAND |
| | GP-GC Poorly-graded GRAVEL with CLAY (or SILTY CLAY) Poorly-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND) | | |
| | GM SILTY GRAVEL SILTY GRAVEL with SAND | | OL ORGANIC lean CLAY ORGANIC lean CLAY with SAND ORGANIC lean CLAY with GRAVEL SANDY ORGANIC lean CLAY SANDY ORGANIC lean CLAY with GRAVEL GRAVELLY ORGANIC lean CLAY GRAVELLY ORGANIC lean CLAY with SAND |
| | GC CLAYEY GRAVEL CLAYEY GRAVEL with SAND | | |
| | GC-GM SILTY, CLAYEY GRAVEL SILTY, CLAYEY GRAVEL with SAND | | OL ORGANIC SILT ORGANIC SILT with SAND ORGANIC SILT with GRAVEL SANDY ORGANIC SILT SANDY ORGANIC SILT with GRAVEL GRAVELLY ORGANIC SILT GRAVELLY ORGANIC SILT with SAND |
| | SW Well-graded SAND Well-graded SAND with GRAVEL | | |
| | SP Poorly-graded SAND Poorly-graded SAND with GRAVEL | | CH Fat CLAY Fat CLAY with SAND Fat CLAY with GRAVEL SANDY fat CLAY SANDY fat CLAY with GRAVEL GRAVELLY fat CLAY GRAVELLY fat CLAY with SAND |
| | SW-SM Well-graded SAND with SILT Well-graded SAND with SILT and GRAVEL | | |
| | SW-SC Well-graded SAND with CLAY (or SILTY CLAY) Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL) | | MH Elastic SILT Elastic SILT with SAND Elastic SILT with GRAVEL SANDY elastic SILT SANDY elastic SILT with GRAVEL GRAVELLY elastic SILT GRAVELLY elastic SILT with SAND |
| | SP-SM Poorly-graded SAND with SILT Poorly-graded SAND with SILT and GRAVEL | | |
| | SP-SC Poorly-graded SAND with CLAY (or SILTY CLAY) Poorly-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL) | | OH ORGANIC fat CLAY ORGANIC fat CLAY with SAND ORGANIC fat CLAY with GRAVEL SANDY ORGANIC fat CLAY SANDY ORGANIC fat CLAY with GRAVEL GRAVELLY ORGANIC fat CLAY GRAVELLY ORGANIC fat CLAY with SAND |
| | SM SILTY SAND SILTY SAND with GRAVEL | | |
| | SC CLAYEY SAND CLAYEY SAND with GRAVEL | | OH ORGANIC elastic SILT ORGANIC elastic SILT with SAND ORGANIC elastic SILT with GRAVEL SANDY ORGANIC elastic SILT SANDY ORGANIC elastic SILT with GRAVEL GRAVELLY ORGANIC elastic SILT GRAVELLY ORGANIC elastic SILT with SAND |
| | SC-SM SILTY, CLAYEY SAND SILTY, CLAYEY SAND with GRAVEL | | |
| | PT PEAT | | OL/OH ORGANIC SOIL ORGANIC SOIL with SAND ORGANIC SOIL with GRAVEL SANDY ORGANIC SOIL SANDY ORGANIC SOIL with GRAVEL GRAVELLY ORGANIC SOIL GRAVELLY ORGANIC SOIL with SAND |
| | | | |

| FIELD AND LABORATORY TESTING | |
|------------------------------|----------------------------------------------------------------------------------------|
| (C) | Consolidation (ASTM D 2435) |
| (CL) | Collapse Potential (ASTM D 5333) |
| (CP) | Compaction Curve (CTM 216) |
| (CR) | Corrosivity Testing (CTM 643, CTM 422, CTM 417) |
| (CU) | Consolidated Undrained Triaxial (ASTM D 4767) |
| (DS) | Direct Shear (ASTM D 3080) |
| (EI) | Expansion Index (ASTM D 4829) |
| (M) | Moisture Content (ASTM D 2216) |
| (OC) | Organic Content-% (ASTM D 2974) |
| (P) | Permeability (CTM 220) |
| (PA) | Particle Size Analysis (ASTM D 422) |
| (PI) | Plasticity Index (AASHTO T 90) Liquid Limit (AASHTO T 89) |
| (PL) | Point Load Index (ASTM D 5731) |
| (PM) | Pressure Meter |
| (R) | R-Value (CTM 301) |
| (SE) | Sand Equivalent (CTM 217) |
| (SG) | Specific Gravity (AASHTO T 100) |
| (SL) | Shrinkage Limit (ASTM D 427) |
| (SW) | Swell Potential (ASTM D 4546) |
| (UC) | Unconfined Compression-Soil (ASTM D 2166) Unconfined Compression-Rock (ASTM D 2938) |
| (UU) | Unconsolidated Undrained Triaxial (ASTM D 2850) |
| (UW) | Unit Weight (ASTM D 4767) |

| APPARENT DENSITY OF COHESIONLESS SOILS | |
|----------------------------------------|--------------------------------------|
| Description | SPT N ₆₀ (Blows / 12 in.) |
| Very Loose | 0 - 5 |
| Loose | 5 - 10 |
| Medium Dense | 10 - 30 |
| Dense | 30 - 50 |
| Very Dense | Greater than 50 |

| MOISTURE | |
|-------------|-------------------------------------|
| Description | Criteria |
| Dry | No discernable moisture |
| Moist | Moisture present, but no free water |
| Wet | Visible free water |

| PERCENT OR PROPORTION OF SOILS | |
|--------------------------------|--------------------------------------------------------|
| Description | Criteria |
| Trace | Particles are present but estimated to be less than 5% |
| Few | 5% - 10% |
| Little | 15% - 25% |
| Some | 30% - 45% |
| Mostly | 50% - 100% |

| PARTICLE SIZE | | |
|---------------|-----------------|--------------|
| Description | Size (in.) | |
| Boulder | Greater than 12 | |
| Cobble | 3 - 12 | |
| Gravel | Coarse | 3/4 - 3 |
| | Fine | 1/5 - 3/4 |
| Sand | Coarse | 1/16 - 1/5 |
| | Medium | 1/64 - 1/16 |
| | Fine | 1/300 - 1/64 |
| Silt and Clay | Less than 1/300 | |

DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 18:37 USERNAME => s124496

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 495 | 602 |

05/2010
DATE

REGISTERED GEOTECHNICAL ENGINEER

6-27-11
PLANS APPROVAL DATE

No. 2738
Exp. 6/30/11

FARID MOTAMED
REGISTERED PROFESSIONAL ENGINEER
GEOTECHNICAL
STATE OF CALIFORNIA

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URS CORPORATION
2020 EAST FIRST STREET, SUITE 400
SANTA ANA, CA 92705

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010).

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS" 1 OF 5



| | | | | | | | | | | | |
|-------------------------------------|--|--------------------------------------------|--|----------------------------|--|-----------------------------------------|--|-------------------------------------------------|--|--------------------------------------------|--|
| ENGINEERING SERVICES | | GEOTECHNICAL SERVICES | | STATE OF CALIFORNIA | | DIVISION OF ENGINEERING SERVICES | | BRIDGE NO. | | N. FORK COYOTE CRK BR (REPLACEMENT) | |
| FUNCTIONAL SUPERVISOR | | DRAWN BY: P.QUACH | | FIELD INVESTIGATION BY: | | STRUCTURE DESIGN | | 53C2185 | | LOG OF TEST BORINGS SHEET 4 OF 5 | |
| NAME: F.MOTAMED | | CHECKED BY: P.YERRA | | P.NARANJO/P.MCDONALD | | DESIGN BRANCH 11 | | POST MILE | | | |
| 06S CIVIL LOG OF TEST BORINGS SHEET | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | 0 1 2 3 | | CU 59A0590 EA 215911 | | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | REVISION DATES | |
| | | | | | | FILE => 53c-2185-z-1otb4of5.dgn | | 5-24-10 | | SHEET 29 OF 30 | |

DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 18:37
USERNAME => s124496

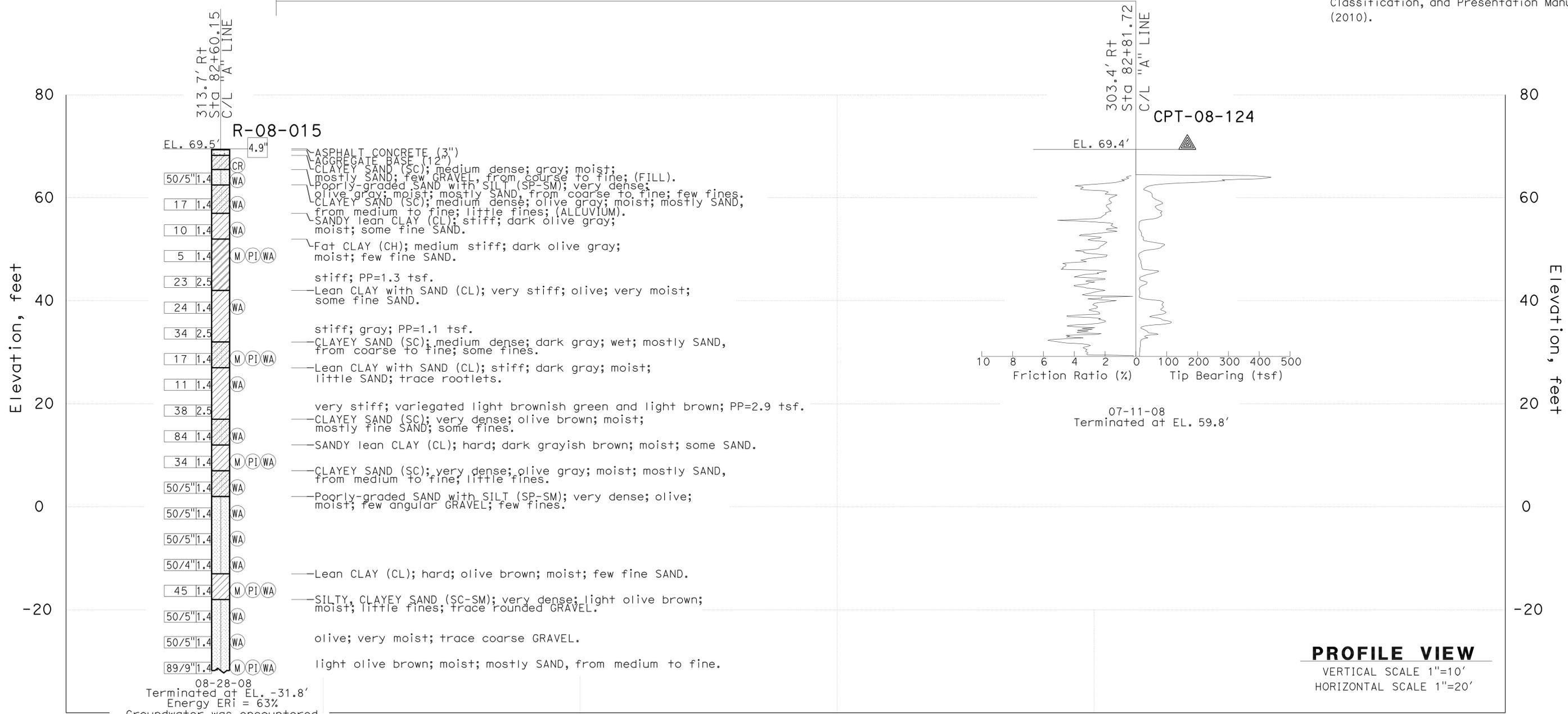
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 496 | 602 |

Farid Motamed 05/2010
 REGISTERED GEOTECHNICAL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 No. 2738
 Exp. 6/30/11
 STATE OF CALIFORNIA
 GEOTECHNICAL

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS" 1 OF 5

URS CORPORATION
 2020 EAST FIRST STREET, SUITE 400
 SANTA ANA, CA 92705

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010).



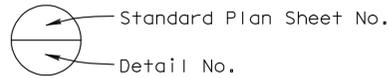
83 84

| | | | | | | | | | | | |
|-------------------------------------|--|--------------------------------------------|--|----------------------------|--|-------------------------------------------------|--|-------------------|--|--------------------------------------------|--|
| ENGINEERING SERVICES | | GEOTECHNICAL SERVICES | | STATE OF CALIFORNIA | | DIVISION OF ENGINEERING SERVICES | | BRIDGE NO. | | N. FORK COYOTE CRK BR (REPLACEMENT) | |
| FUNCTIONAL SUPERVISOR | | DRAWN BY: P.QUACH | | FIELD INVESTIGATION BY: | | STRUCTURE DESIGN | | 53C2185 | | LOG OF TEST BORINGS SHEET 5 OF 5 | |
| NAME: F.MOTAMED | | CHECKED BY: P.YERRA | | P.NARANJO/P.MCDONALD | | DESIGN BRANCH 11 | | POST MILE | | REVISION DATES | |
| 06S CIVIL LOG OF TEST BORINGS SHEET | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | 0 1 2 3 | | CU 59A0590 EA 215911 | | 1.51 | | 5-24-10 | |
| | | | | | | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | | | SHEET 30 OF 30 | |

USERNAME => s124496 DATE PLOTTED => 30-JUN-2011 TIME PLOTTED => 18:38

STANDARD PLANS
Dated May 2006

| | |
|--------|--------------------------------------------------------------------------|
| A10A | ACRONYMS AND ABBREVIATIONS (A-L) |
| A10B | ACRONYMS AND ABBREVIATIONS (M-Z) |
| A62B | LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL- BRIDGE SURCHARGE AND WALL |
| B0-3 | BRIDGE DETAILS |
| B2-5 | PILE DETAILS CLASS 90 AND CLASS 140 |
| B3-1 | RETAINING WALL TYPE 1 |
| B3-8 | RETAINING WALL DETAILS NO. 1 |
| B11-54 | CONCRETE BARRIER TYPE 26 |
| D102 | UNDERDRAINS |

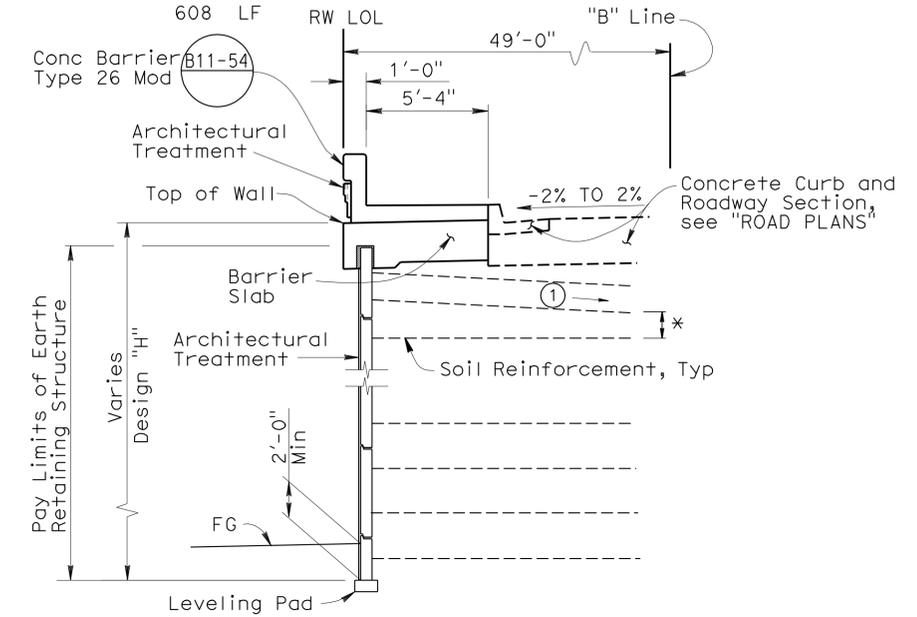
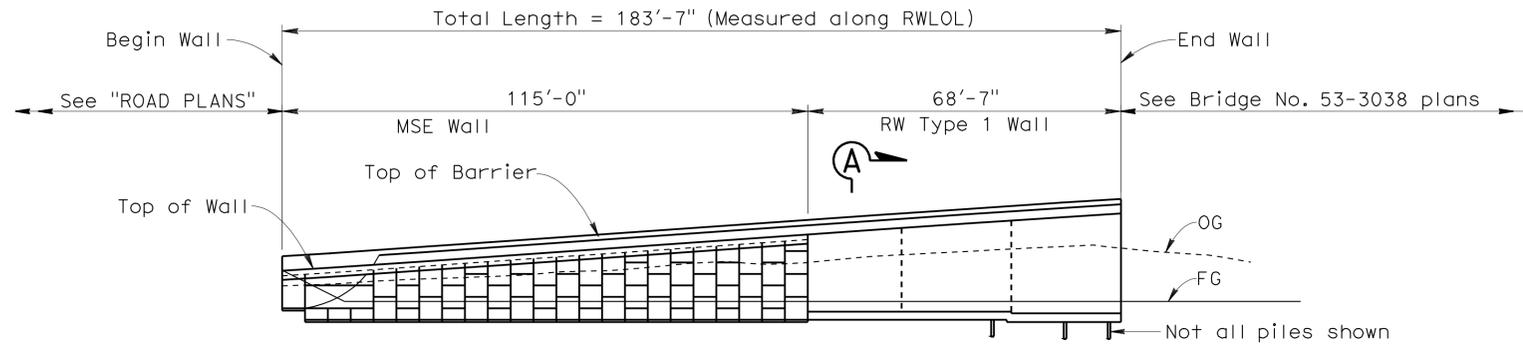


INDEX TO PLANS

| Sheet No. | Title |
|-----------|---------------------------------------|
| 1 | GENERAL PLAN |
| 2 | STRUCTURE PLAN NO. 1 |
| 3 | STRUCTURE PLAN NO. 2 |
| 4 | RETAINING WALL DETAILS NO. 1 |
| 5 | RETAINING WALL DETAILS NO. 2 |
| 6 | RETAINING WALL DETAILS NO. 3 |
| 7 | RETAINING WALL DETAILS NO. 4 |
| 8 | RETAINING WALL DETAILS NO. 5 |
| 9 | RETAINING WALL DETAILS NO. 6 |
| 10 | ARCHITECTURAL TREATMENT DETAILS NO. 1 |
| 11 | ARCHITECTURAL TREATMENT DETAILS NO. 2 |
| 12 | ARCHITECTURAL TREATMENT DETAILS NO. 3 |
| 13 | ARCHITECTURAL TREATMENT DETAILS NO. 4 |
| 14 | BARRIER MOTIF DETAILS |
| 15 | PILE CASING DETAIL |

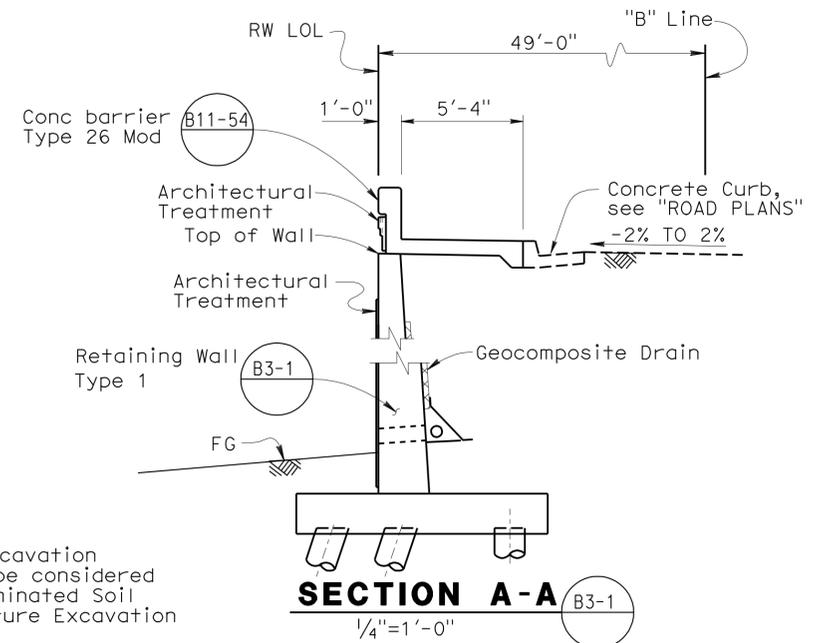
| QUANTITIES | | |
|--------------------------------------------|--------|------|
| STRUCTURE EXCAVATION (BRIDGE)-CONTAMINATED | 495 | CY |
| STRUCTURE BACKFILL (RETAINING WALL) | 375 | CY |
| EARTH RETAINING STRUCTURE, LOCATION A | 1,857 | SQFT |
| FURNISH PILING (CLASS 90) | 1,539 | LF |
| (ALTERNATIVE W) | | |
| DRIVE PILE (CLASS 90) | 27 | EA |
| (ALTERNATIVE W) | | |
| STRUCTURAL CONCRETE, RETAINING WALL | 199 | CY |
| STRUCTURAL CONCRETE, BARRIER SLAB | 77 | CY |
| ARCHITECTURAL TREATMENT | 1,156 | SQFT |
| ARCHITECTURAL SURFACE (BARRIER) | 349 | SQFT |
| BAR REINFORCING STEEL (RETAINING WALL) | 19,500 | LB |
| CONCRETE BARRIER (TYPE 26 MODIFIED) | 228 | LF |
| 20" DIAMETER PILE CASING | 608 | LF |

Note:
 ① For slope see "RETAINING WALL DETAILS NO. 2 AND NO. 3" sheet
 * Maintain a minimum of 6" between soil reinforcements, Typ



TYPICAL SECTION AT MSE WALL

1/4"=1'-0"

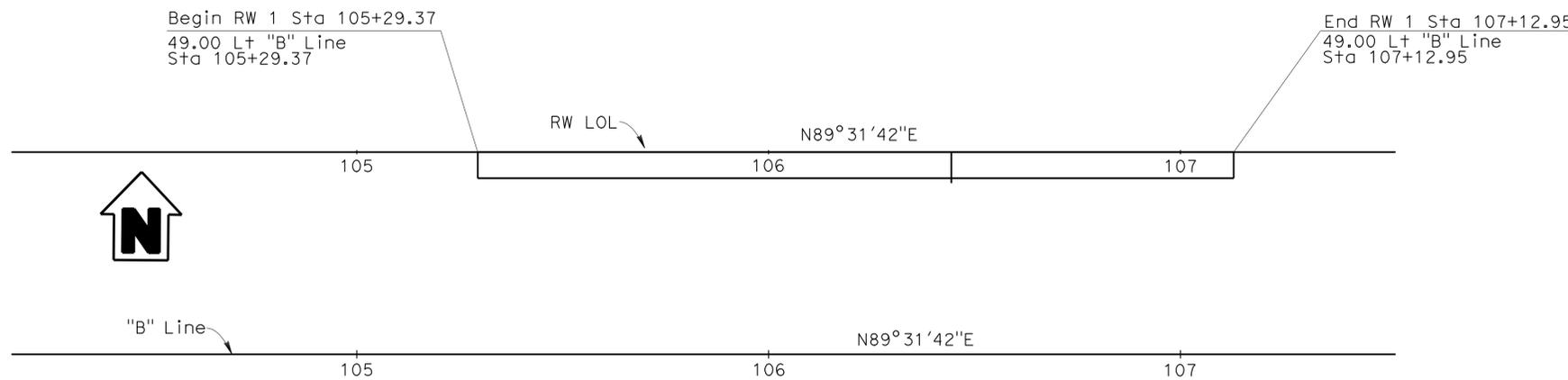


Note: All Excavation shall be considered Contaminated Soil Structure Excavation

Datum Elev = 30.00

DEVELOPED MIRROR ELEVATION

1"=20'



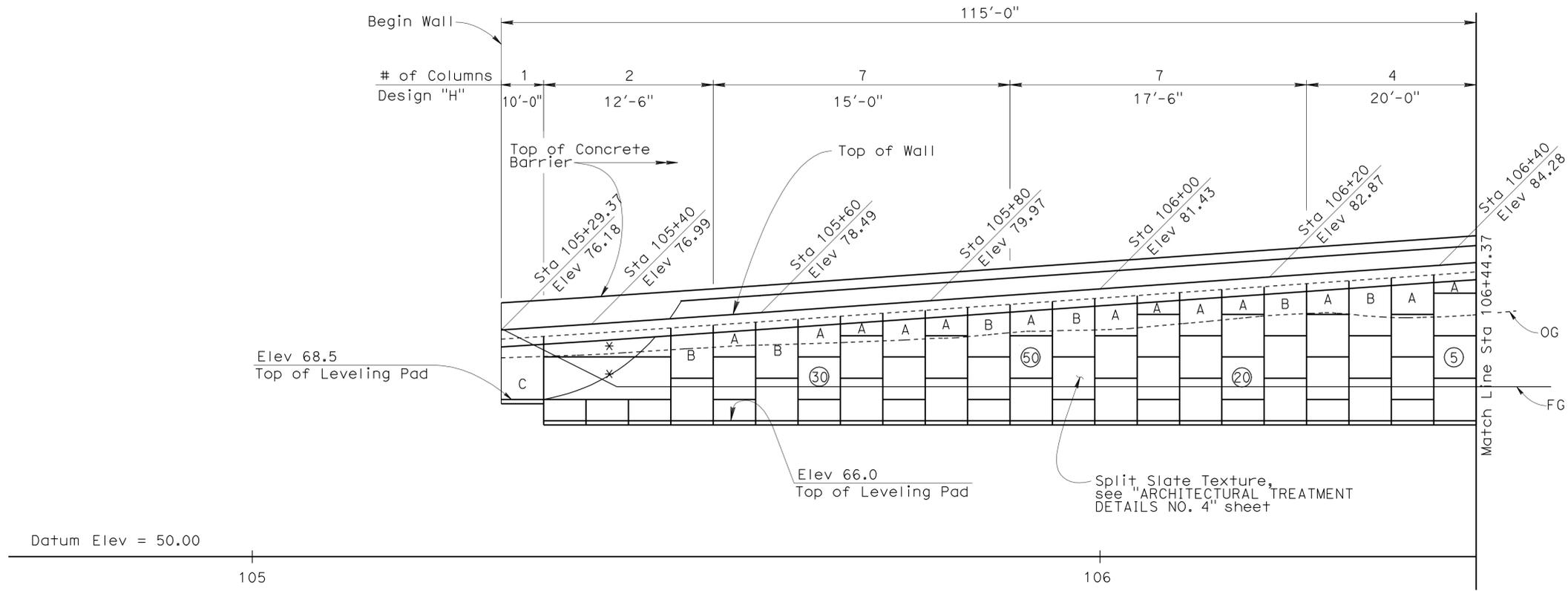
PLAN

1"=20'

| | | | | | | | | | | | | | | |
|--------------------------------------------|------------|------------------|--------------------------|--------|----------------|------------------------------------------------------------------------------|----------------|--------------------|------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------|---------------|---------|--------------------------------------|
| Ramin Rashedi DESIGN ENGINEER | DESIGN | BY Phu Nguyen | CHECKED Ubong Inyang | LAYOUT | BY Phu Nguyen | CHECKED Ubong Inyang | SPECIFICATIONS | BY Theresa Nedwick | PLANS AND SPECS COMPARED Theresa Nedwick | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | 53E0151 | RETAINING WALL NO. 1 GENERAL PLAN |
| | DETAILS | BY Jaime Ramirez | CHECKED Ubong Inyang | | POST MILE | 1.68 | | | | | | | | |
| | QUANTITIES | BY Tony Yoon | CHECKED Loren Goldthwait | | REVISION DATES | 12-22-09 4-5-11 3-22-11 1-21-10 3-18-10 4-8-10 9-18-10 1-14-11 2-1-11 3-8-11 | | | | | | | | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | | | | | | | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | SHEET 1 OF 15 | | |

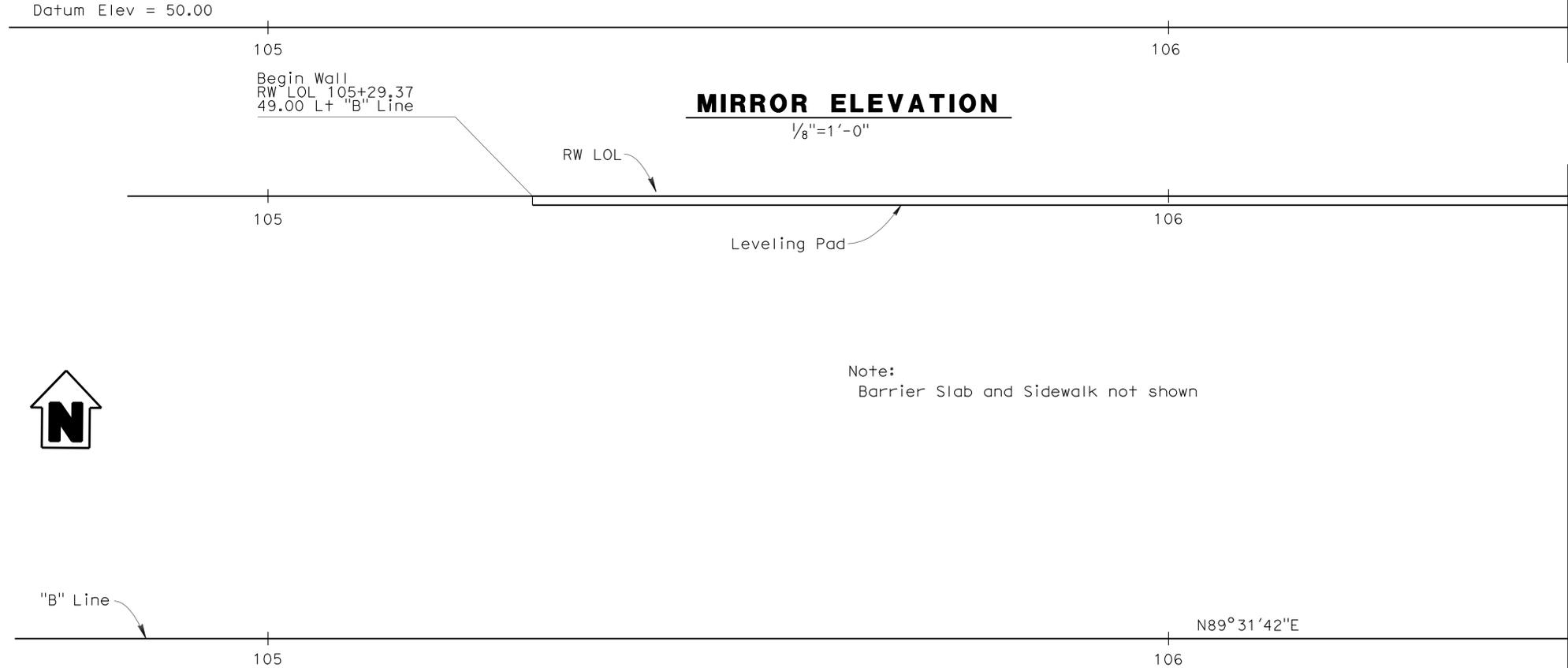
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 07 | LA | 5 | 1.2/2.1 | 498 | 602 |

Phu Vuong Nguyen 3-2-11
 REGISTERED CIVIL ENGINEER DATE
 6-27-11
 PLANS APPROVAL DATE
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
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MIRROR ELEVATION

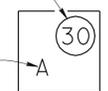
1/8"=1'-0"



PLAN

1/8"=1'-0"

Indicates interval in years from time of construction to time of removal of inspection wire



Indicates panel type designation. For details, see "RETAINING WALL DETAILS NO. 2 and NO. 3" sheet.

PANEL LEGEND

NO SCALE

Note:

* Panel is 15' wide

Note:
Barrier Slab and Sidewalk not shown

| | | |
|------------|------------------|--------------------------|
| DESIGN | BY Phu Nguyen | CHECKED Ubong Inyang |
| DETAILS | BY Jaime Ramirez | CHECKED Ubong Inyang |
| QUANTITIES | BY Tony Yoon | CHECKED Loren Goldthwait |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 11

| | |
|------------|---------|
| BRIDGE NO. | 53E0151 |
| POST MILE | 1.68 |

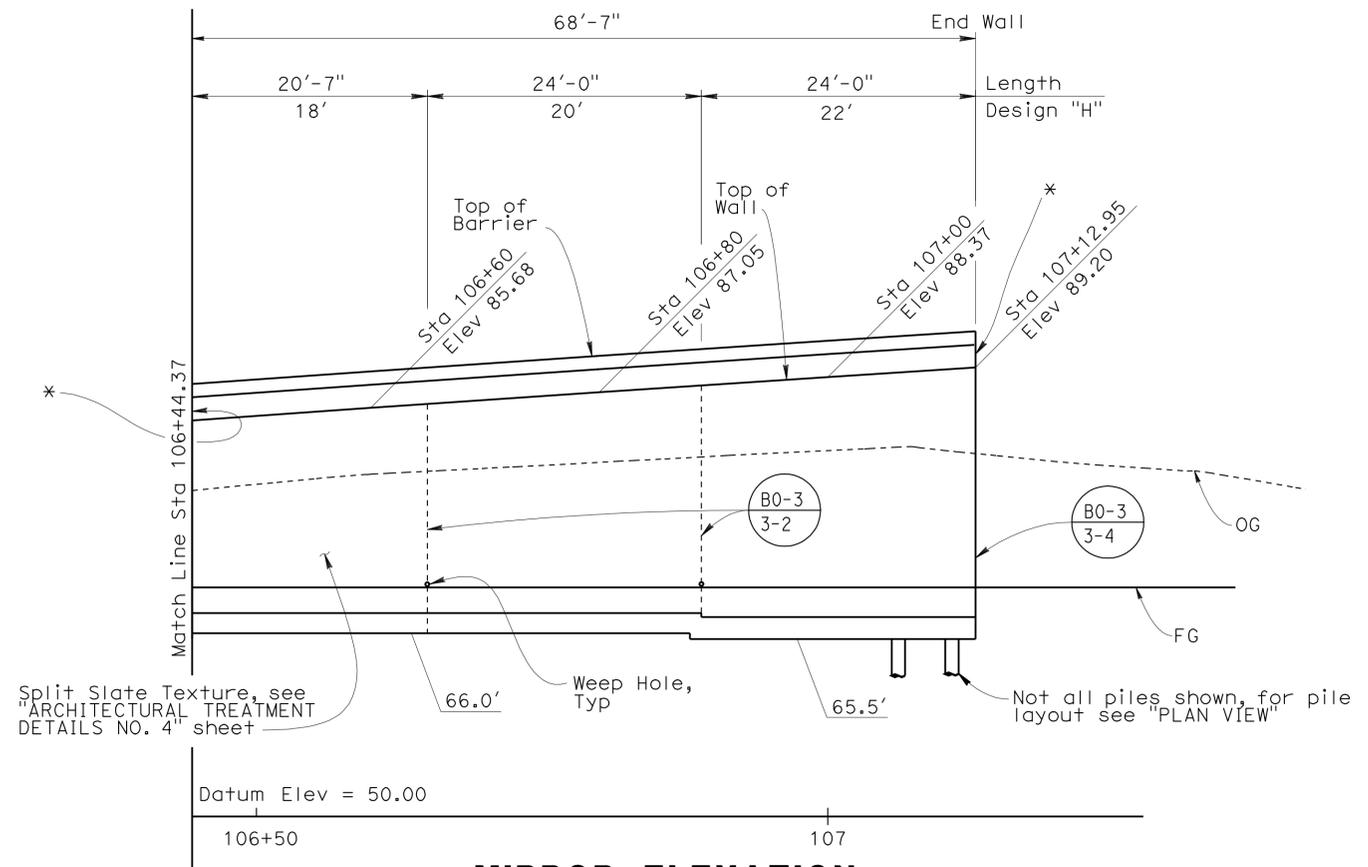
**RETAINING WALL NO. 1
STRUCTURE PLAN NO. 1**

| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07 | LA | 5 | 1.2/2.1 | 499 | 602 |

REGISTERED CIVIL ENGINEER DATE 3-2-11
 PHU V. NGUYEN
 No. 60358
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

6-27-11
 PLANS APPROVAL DATE

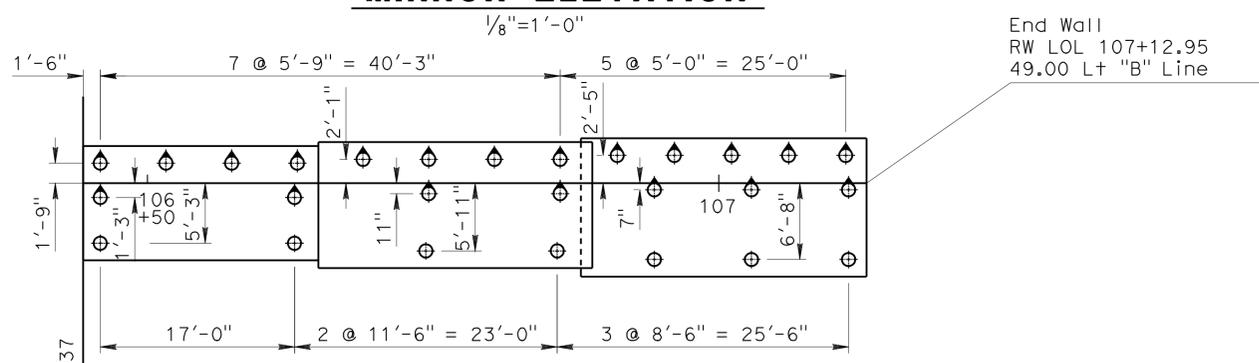
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* - Provide 1/2" expansion Joint Filler (B11-54)

Split Slate Texture, see "ARCHITECTURAL TREATMENT DETAILS NO. 4" sheet

MIRROR ELEVATION



End Wall
RW LOL 107+12.95
49.00 Lt "B" Line

PLAN

Legend:

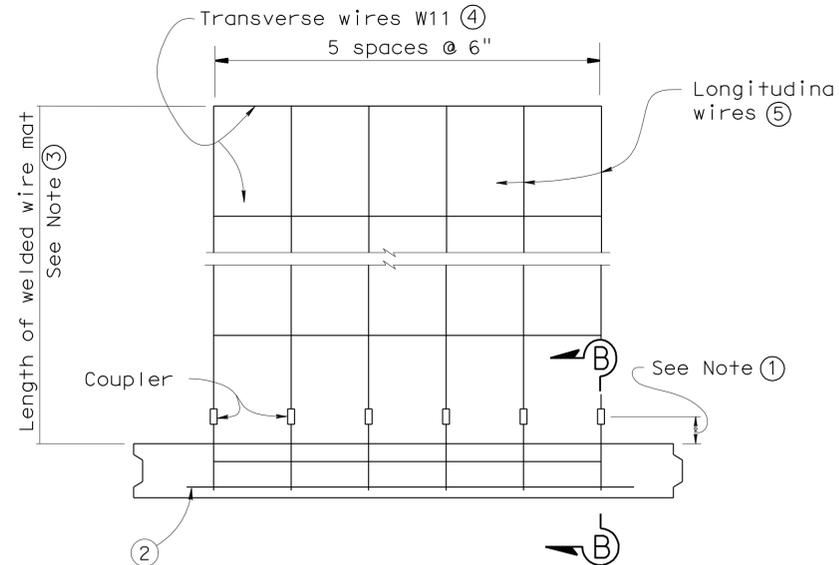
- ⊕ - Indicates class 90 Piles, Alternative "W" with casing (B2-5)
- ⊕ - Indicates Battered 1:3 class 90 Piles, Alternative "W" with casing (B2-5)

Note:

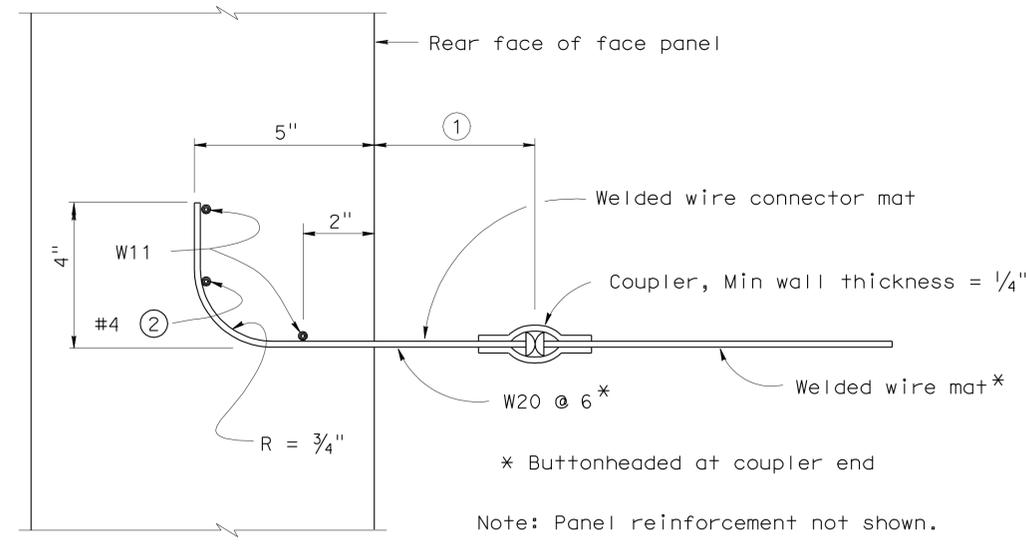
- Specified Pile Tip Elevation = 10.0
- For Nominal Driving Resistance required and Pile Casing Details, see "PILE CASING DETAIL" sheet



| | | | | | | | | |
|----------------------------------------------------------|------------|------------------|--------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | DESIGN | BY Phu Nguyen | CHECKED Ubong Inyang | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 11 | BRIDGE NO. | 53E0151 | RETAINING WALL NO. 1 STRUCTURE PLAN NO. 2 |
| | DETAILS | BY Jaime Ramirez | CHECKED Ubong Inyang | | | POST MILE | 1.68 | |
| | QUANTITIES | BY Tony Yoon | CHECKED Loren Goldthwait | | | REVISION DATES | 1-14-10 3-22-11 3-2-10 5-2-10 3-14-10 3-24-10 5-3-10 5-19-10 9-3-10 | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | 0 1 2 3 | CU 07227 EA 215911 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | SHEET 3 OF 15 |



PLAN OF PANEL WITH WELDED WIRE MAT
No scale



SECTION B-B
No scale

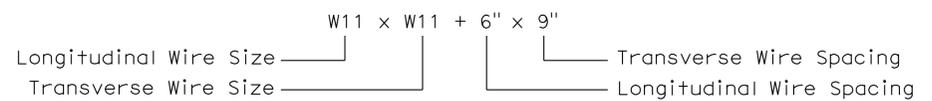
GENERAL NOTES (MSE WALLS)

Live loading: Surcharge = 240 lb/ft²
 Soil parameters:
 Internal design $\phi = 34^\circ$, $\gamma = 120$ lb/ft³
 External design ϕ (Backfill) = 34°, $\gamma = 120$ lb/ft³
 ϕ (Foundation) = 30°
 Precast concrete panels:
 $f'c = 4,000$ psi (Concrete compressive strength at 28 days)
 $f_y = 60,000$ psi (Yield strength of reinforcement)
 Soil reinforcement:
 Welded wire mats: $f_y = 65,000$ psi (Yield strength)
 Coupler: $f_y = 36,000$ psi (Yield strength)
 Corrosion rate = 1.1 mils/year
 Reinforced concrete:
 $f'c = 3,600$ psi, except as noted (Concrete compressive strength at 28 days)
 $f_y = 60,000$ psi (Yield strength of reinforcement)
 MSE = Mechanically stabilized embankment

Notes:

- Distance as required to permit coupler to be swaged.
- Place #4 bar, 3'-2" long, centered on connector mat, but not welded to it.
- Length equals "Base width" of wall, except it shall not be less than 16' for the top 2 levels of mats at the top of the wall.
- All Transverse Wires size W11 at various spacings as shown in 'WELDED WIRE MAT DENSITY TABLE'.
- All Longitudinal Wires at 6" spacing, of various sizes, as shown in 'WELDED WIRE MAT DENSITY TABLE'.
- Wire mat for 15 feet wide panel shall be 3 wire mats per Design Height "H" shown.

LEGEND:



WELDED WIRE MAT DENSITY TABLE

| Design Height, "H" | 10'-0" | 12'-6" | 15'-0" | 17'-6" | 20'-0" |
|--------------------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Base Width | 8 | 9 | 11 | 12 | 14 |
| Top Levels of Mesh | 2 @ W11 x W11 + 6" x 9" | 2 @ W11 x W11 + 6" x 9" | 2 @ W11 x W11 + 6" x 9" | 2 @ W11 x W11 + 6" x 9" | 2 @ W11 x W11 + 6" x 9" |
| Over | @ W11 x W11 + 6" x 12" | 2 @ W11 x W11 + 6" x 12" | 2 @ W11 x W11 + 6" x 12" | 2 @ W11 x W11 + 6" x 12" | 3 @ W11 x W11 + 6" x 18" |
| | - | @ W11 x W11 + 6" x 18" | 1 @ W11 x W11 + 6" x 18" | 1 @ W11 x W11 + 6" x 18" | @ W11 x W11 + 6" x 24" |
| | - | - | @ W11 x W11 + 6" x 24" | @ W11 x W11 + 6" x 24" | - |