

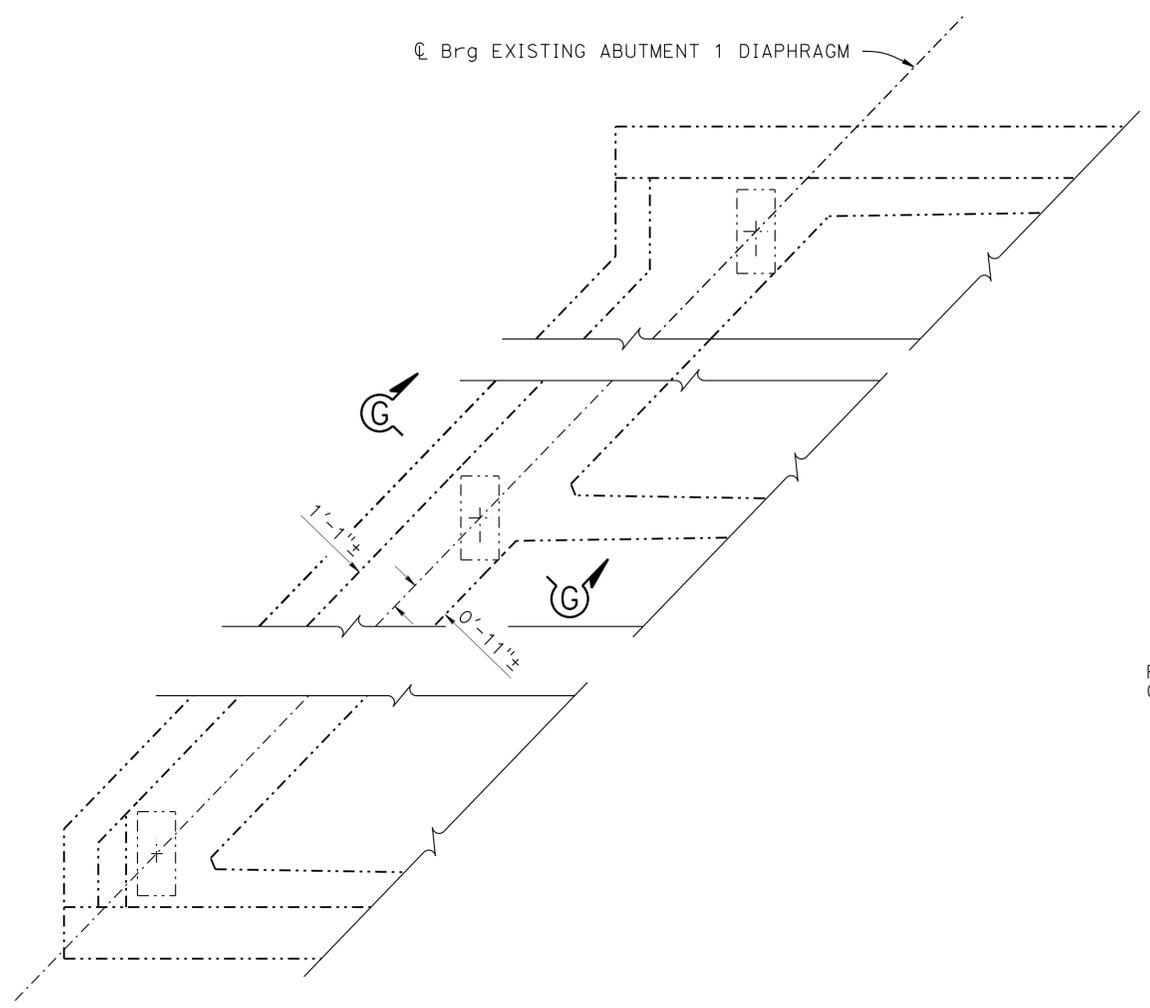
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	8.1/37.8	401	437

Ali Asnaashari 10-22-12
REGISTERED CIVIL ENGINEER DATE

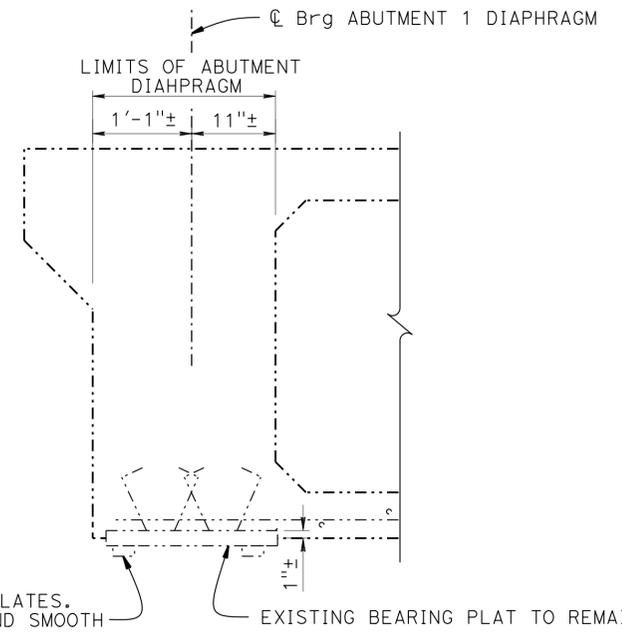
6-24-13
PLANS APPROVAL DATE

ALI ASNAASHARI
No. 36092
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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PART PLAN
1/2" = 1'-0"



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

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

NOTE:
Abutment 1 diaphragm shown, Abutment 5 similar

DESIGN	BY Ye Yang	CHECKED Ali Asnaashari
DETAILS	BY Nancy C Gwynn	CHECKED Ali Asnaashari
QUANTITIES	BY Quang H Nguyen	CHECKED Art V Herrera

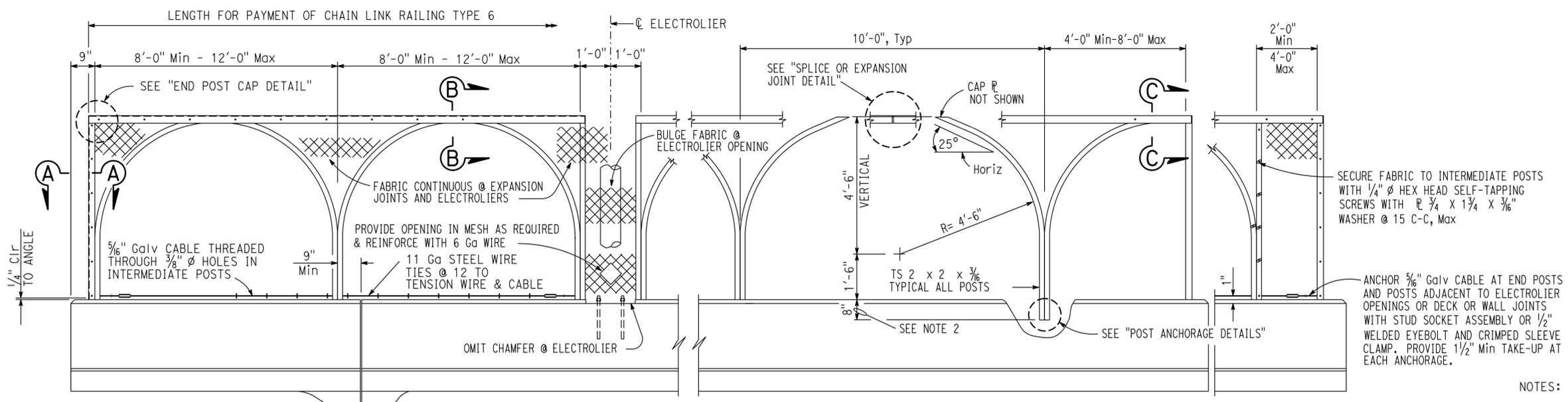
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 3

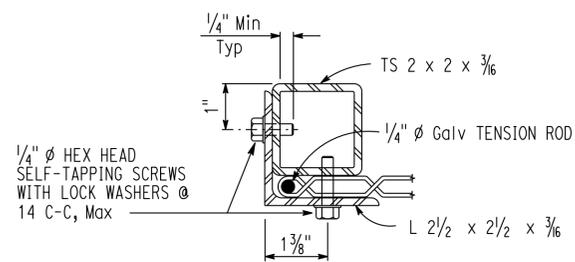
BRIDGE NO.	19-0098
POST MILE	9.5

KING ROAD OVERCROSSING (RAISE)
CONCRETE REMOVAL DETAILS NO. 3

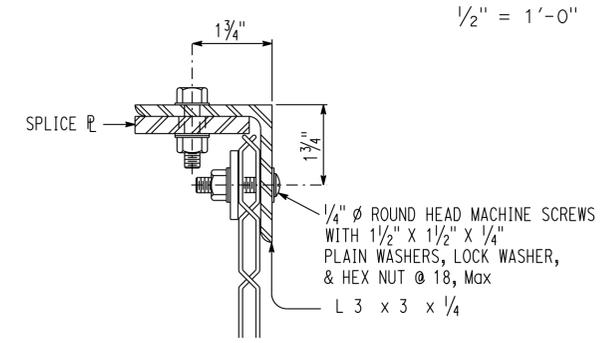
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plca	80	8.1/37.8	402	437
			10/01/12	REGISTERED CIVIL ENGINEER DATE	
			6-24-13	PLANS APPROVAL DATE	
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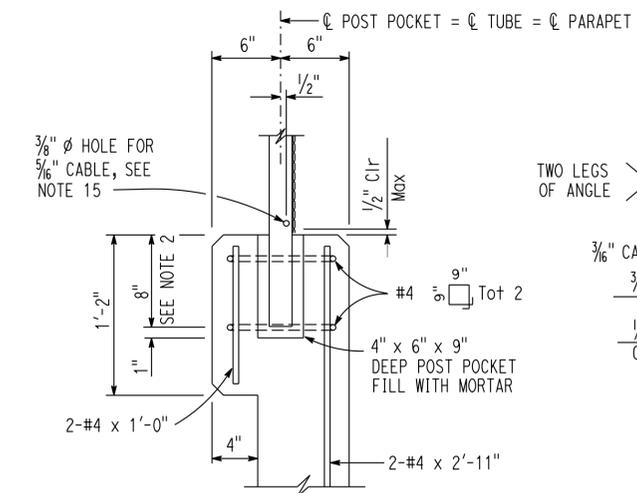
END PANEL 8'-0" - 12'-0" EXPANSION PANEL AT ELECTROLIER TYPICAL INTERIOR PANEL 10'-0", Typ END PANEL 4'-0" - 8'-0" END PANEL 2'-0" - 4'-0"



SECTION A-A
6" = 1'-0"



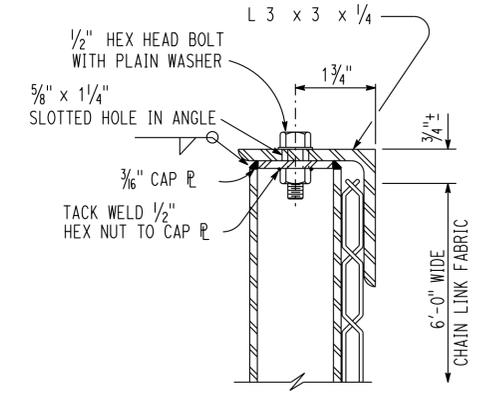
SECTION B-B
6" = 1'-0"



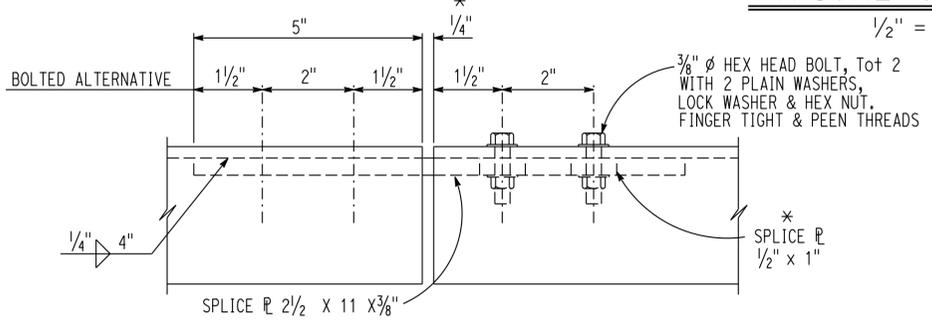
POST ANCHORAGE DETAIL
1 1/2" = 1'-0"

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

ELEVATION
1/2" = 1'-0"

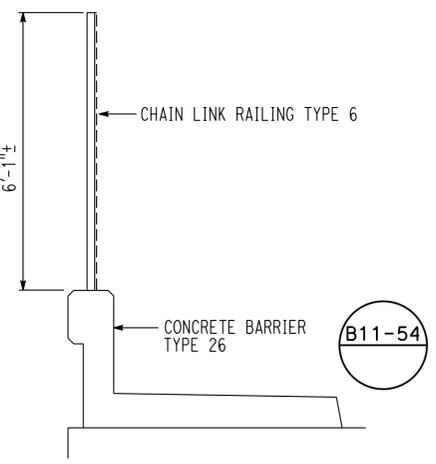


SECTION C-C
6" = 1'-0"



SPLICE OR EXPANSION JOINT DETAIL
6" = 1'-0"

* Expansion joint same dimension as expansion joint in deck or wall. Increase slotted hole length and splice plate length correspondingly.



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

- NOTES:
- 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.
 - One post may be embedded 6" minimum to accommodate grade changes, otherwise fabricate post lengths as required.
 - Curved posts may be rotated in plan within its post pocket to accommodate curved horizontal alignment.
 - Straight posts and straight portions of curved posts shall be installed normal to bridge profile grade.
 - Top horizontal angle shall be parallel to bridge profile grade and shall be shop bent to fit horizontal curves.
 - When railing is on slope, fabric shall be placed parallel to slope.
 - Alternative details may be submitted by Contractor for Engineer's approval.
 - For details and reinforcement not shown, see "CONCRETE BARRIER TYPE 26" sheet. (B11-54)
 - See Bridge Plans for limits of Chain Link Railing Type 6.
 - Provide thimbles at all cable loops.
 - Chain link fabric to be 6'-0" wide with 1" mesh and with knuckled selvage top and bottom.
 - When railing is placed on a horizontal alignment with a radius of 150'-0" or less, thread 5/16" cable through 3/8" diameter welded eye rods embedded 4" into the top of the concrete parapet and equally spaced to limit the middle ordinate distance between 5/16" cable and the curve to 1" maximum.
 - Splices and expansion joints shall be located at center panel.
 - Holes in posts for 5/16" cable and its anchorage may be field drilled and painted with zinc rich paint.

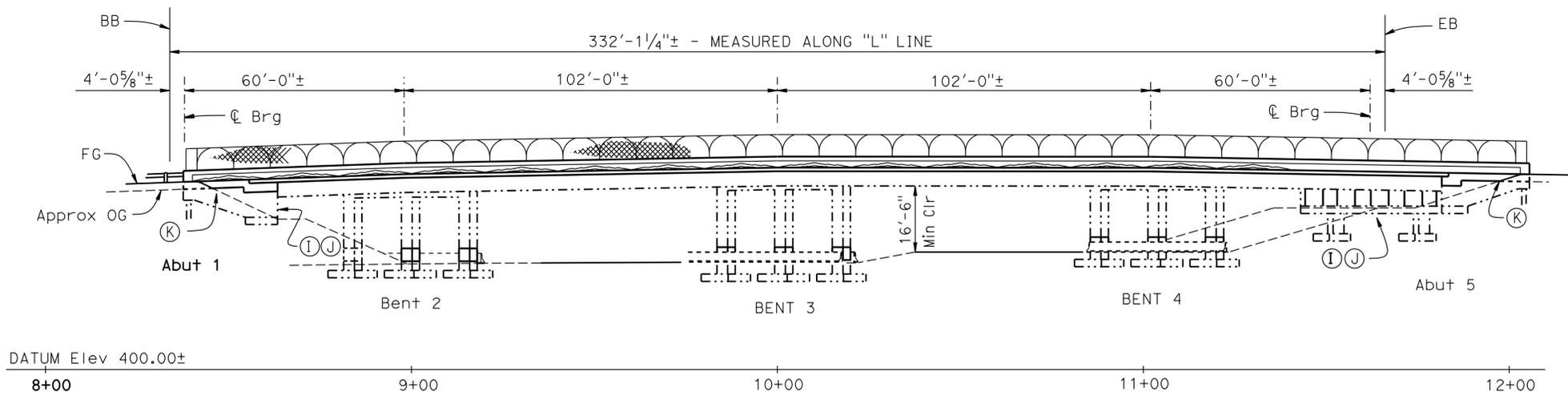
STANDARD DRAWING	FILE NO. xs16-200	APPROVAL DATE July 2011
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STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 19-0098 POST MILE 9.5
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KING ROAD OVERCROSSING (RAISE)	
CHAIN LINK RAILING TYPE 6	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plca	80	8.1/37.8	403	437

10-22-12
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE
 ALI ASNAASHARI
 No. 36092
 Exp. 6-30-14
 CIVIL
 STATE OF CALIFORNIA
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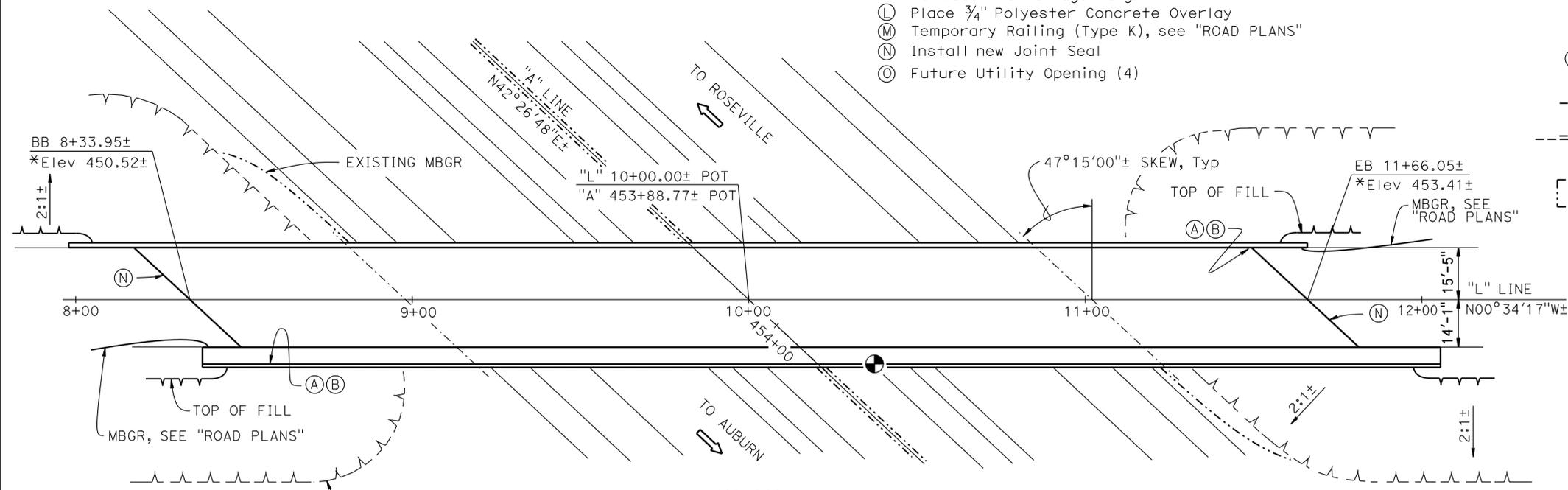


ELEVATION

1" = 20'

- NOTES:
- Stage 1 Construction: Detour traffic, raise bridge construct columns, abutment backwall, wingwalls and abutment pedestal
- (A) Paint "Bridge No. 19-0099"
 - (B) Paint "PENRYN ROAD OVERCROSSING"
 - (C) Remove portion of bridge & raise bridge
 - (D) Existing Barrier to be removed, see "ROAD PLANS"
 - (E) Remove existing Barrier Railing
 - (F) Concrete Barrier Type 732 (Mod) w/Aesthetic Treatment
 - (G) Concrete Barrier Type 26 (Mod) w/Aesthetic Treatment
 - (H) Chain Link Railing Type 6
 - (I) Remove part of existing expansion bearing assembly & pedestal
 - (J) Rebuild the existing pedestal & install new Elastomeric Bearing Pad
 - (K) Remove portion of existing wingwall & construct wingwall to match new bridge height
 - (L) Place 3/4" Polyester Concrete Overlay
 - (M) Temporary Railing (Type K), see "ROAD PLANS"
 - (N) Install new Joint Seal
 - (O) Future Utility Opening (4)

- LEGEND:
- * Elevation @ top of Polyester Concrete Overlay
 - ▨ Indicates bridge removal (portion)
 - ▩ Indicates new concrete
 - Indicates existing structure
 - Indicates new construction
 - Indicates point of minimum vertical clearance

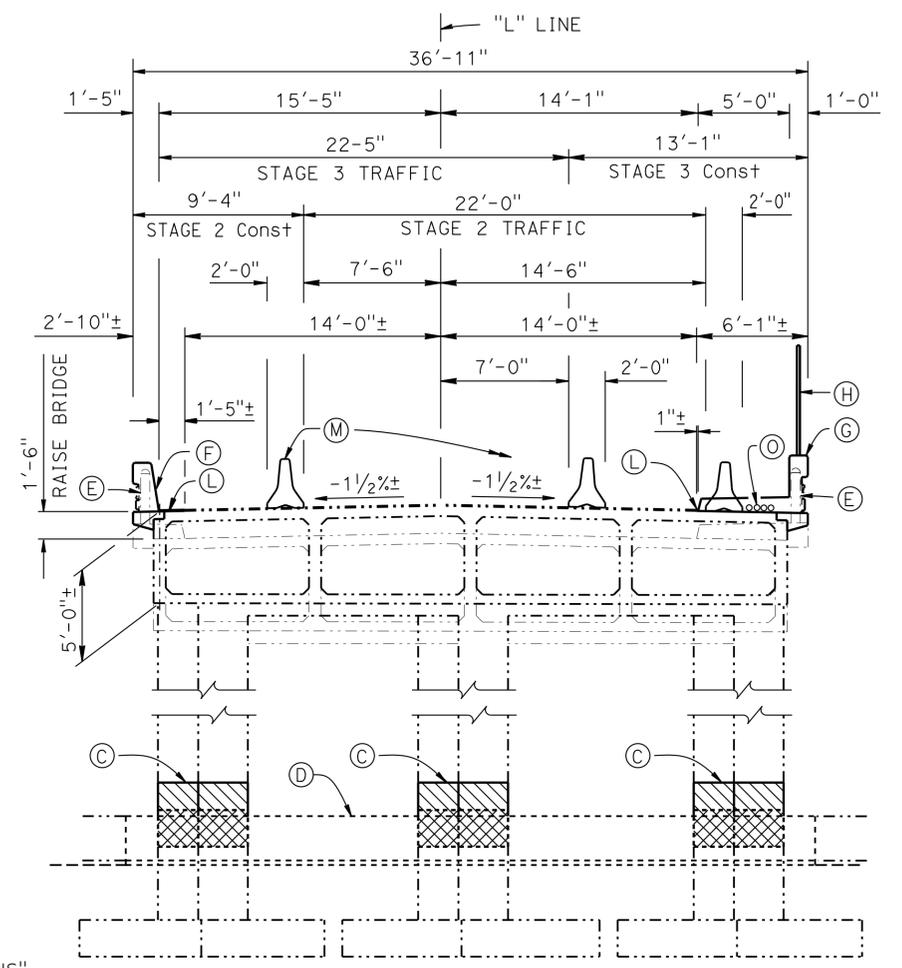


PLAN

1" = 20'

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

NOTE: For "GENERAL NOTES" and "INDEX TO PLANS", see "INDEX TO PLANS NO. 1" sheet



TYPICAL SECTION

1" = 5'

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	500	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	43	CF
PLACE POLYESTER CONCRETE OVERLAY	580	SQFT
BRIDGE REMOVAL (PORTION), LOCATION D	LUMP	SUM
STRUCTURE EXCAVATION (BRIDGE)	9	CY
STRUCTURE BACKFILL (BRIDGE)	8	CY
RAISE BRIDGE (LOCATION D)	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	69	CY
DRILL AND BOND DOWEL	285	LF
JOINT SEAL (MR 1")	112	LF
BAR REINFORCING STEEL (BRIDGE)	15,370	LB
CHAIN LINK RAILING (TYPE 6)	368	LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	368	LF
CONCRETE BARRIER (TYPE 732 MODIFIED)	368	LF

DESIGN	BY Sharon Yen	CHECKED Jose M Aquino III	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44
DETAILS	BY N Gwynn/M J Chlubna	CHECKED Jose M Aquino III	LAYOUT	BY Sharon Yen
QUANTITIES	BY Seung Pyo Hong	CHECKED Quang H Nguyen	SPECIFICATIONS	BY Dave Klein

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 3

BRIDGE NO. 19-0099
 POST MILE 10.4

PENRYN ROAD OVERCROSSING (RAISE)

GENERAL PLAN

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	8.1/37.8	404	437
			10-22-12		
			REGISTERED CIVIL ENGINEER	DATE	
			6-24-13	PLANS APPROVAL DATE	
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

GENERAL NOTES

EXISTING STRUCTURE

SPECIFICATIONS: DESIGN:

AASHTO dated 1953 with subsequent revisions, and Bridge Department Supplement dated 1953
Standard Specifications, Division of Highways, dated August 1954 and the Special Provisions

LIVE LOADING:

H20-S16-44 & Alternative

UNIT STRESSES:

Reinforced Concrete:

$f_s = 20,000$ psi
 $f_c = 1,200$ psi (Except as noted)
 $f_c = 1,000$ psi (Roadway slab on girders)
 $n = 10$

FOUNDATION DATA:

Footing Pressure: 5 tons per square feet
Pile Loading: 45 tons Type: Concrete

NEW CONSTRUCTION

DESIGN:

Bridge Design Specifications-April 2000 (LFD)
(1996 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD:

Include 9 psf for 3/4" polyester concrete overlay.
No future additional deck overlay allowed

LIVE LOADING:

HS20-44 design load. No Permit truck loading considered

SEISMIC DESIGN:

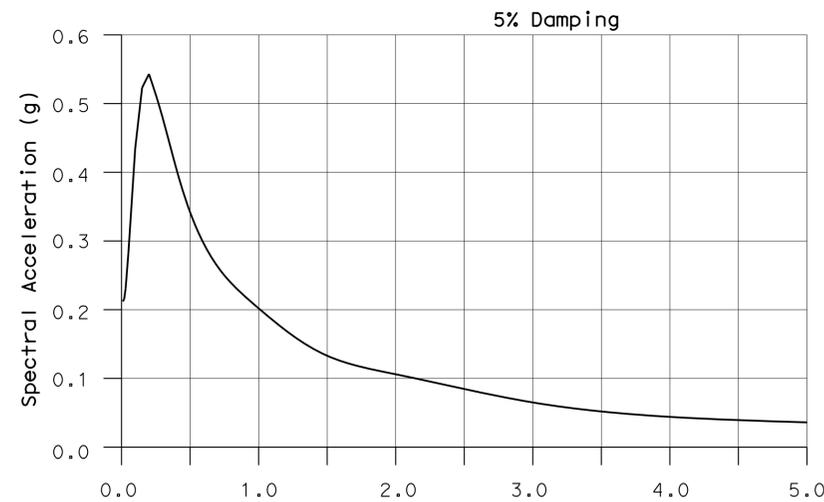
See "SITE SPECIFIC ARS CURVE"

REINFORCED CONCRETE:

$f_y = 60$ ksi
 $f'_c = 3600$ psi
 $n = 8$

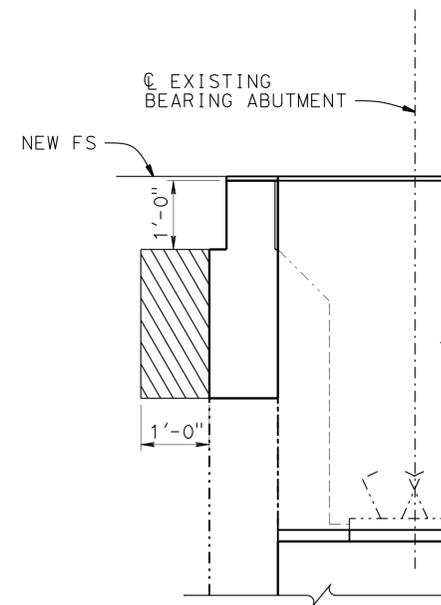
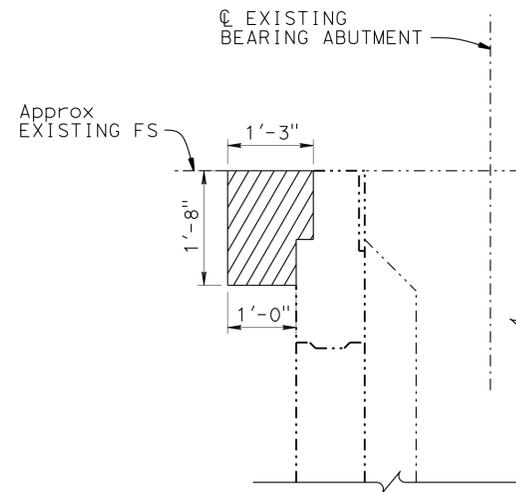
FOUNDATION DATA:

Footing Pressure: 5 tons per square feet
Pile Loading: 48 tons Type: Concrete



SITE SPECIFIC ARS CURVE

NO SCALE



- INDICATES STRUCTURE EXCAVATION
- INDICATES STRUCTURE BACKFILL

NOTE:
For Wingwall backfill limits, see "ROAD PLANS"

LIMITS OF EXCAVATION AND BACKFILL

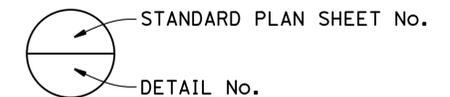
NO SCALE

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS NO. 1
3	INDEX TO PLANS NO. 2
4	ABUTMENT DETAILS NO. 1
5	ABUTMENT DETAILS NO. 2
6	ABUTMENT DETAILS NO. 3
7	ABUTMENT DETAILS NO. 4
8	ABUTMENT DETAILS NO. 5
9	BENT DETAILS
10	TYPICAL SECTION NO. 1
11	TYPICAL SECTION NO. 2
12	AESTHETIC DETAILS NO. 1
13	AESTHETIC DETAILS NO. 2
14	CONCRETE REMOVAL DETAILS NO. 1
15	CONCRETE REMOVAL DETAILS NO. 2
16	CONCRETE REMOVAL DETAILS NO. 3
17	CHAIN LINK RAILING TYPE 6

STANDARD PLANS Dated 2010

A10A	ABBREVIATIONS (SHEET 1 OF 2)
A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
B11-54	CONCRETE BARRIER TYPE 26
B11-55	CONCRETE BARRIER TYPE 732



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

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Sharon Yen	CHECKED Jose M Aquino III	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	PENRYN ROAD OVERCROSSING (RAISE) INDEX TO PLANS NO. 1											
	DETAILS	BY Nancy C Gwynn	CHECKED Jose M Aquino III			19-0099												
	QUANTITIES	BY Seung Pyo Hong	CHECKED Quang H Nguyen			POST MILE 10.4												
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3578	PROJECT NUMBER & PHASE: 03000004731		CONTRACT NO.: 03-3E1001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1" style="font-size: small;"> <tr><th colspan="2">REVISION DATES</th><th>SHEET</th><th>OF</th></tr> <tr><td>3-26-11</td><td>12-07-11</td><td>2</td><td>17</td></tr> </table>	REVISION DATES		SHEET	OF	3-26-11	12-07-11	2	17
REVISION DATES		SHEET	OF															
3-26-11	12-07-11	2	17															

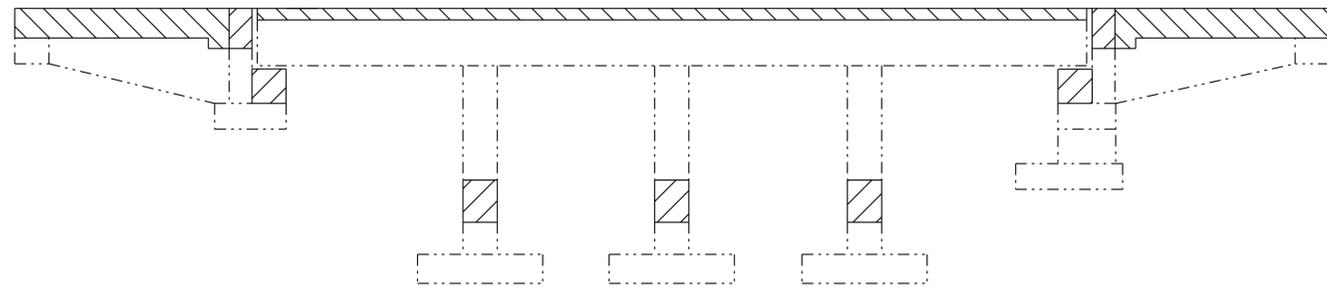
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	8.1/37.8	405	437

Ali Asnaashari 10-22-12
REGISTERED CIVIL ENGINEER DATE

6-24-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ALI ASNAASHARI
No. 36092
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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STRUCTURAL CONCRETE, BRIDGE

STRUCTURAL CONCRETE, BRIDGE (3,600 psi PRIOR TO TEMPORARY SUPPORT RELEASE)

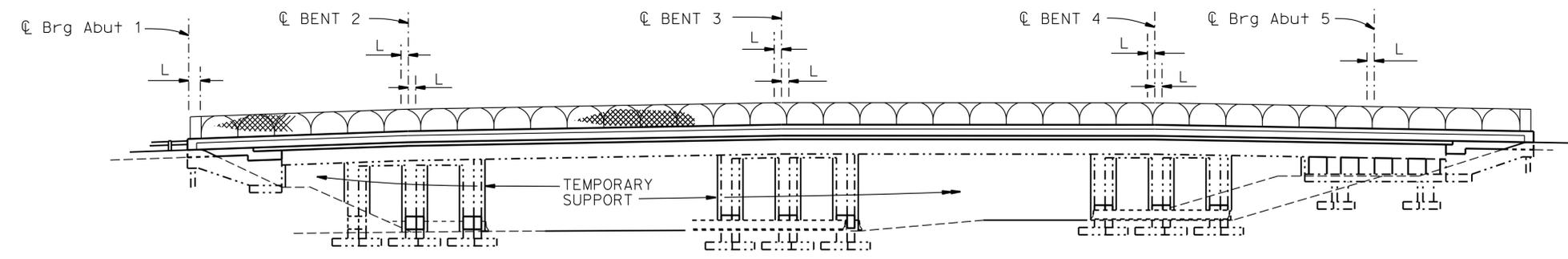
CONCRETE STRENGTH AND TYPE LIMITS
NO SCALE

TEMPORARY SUPPORT LOADING

Required capacity of Temporary support

LOCATION	DEAD LOAD
Abutment 1	248 kips
Bent 2	1068 kips
Bent 3	1244 kips
Bent 4	1068 kips
Abutment 5	248 kip

Temporary support loads do not include loads the Contractor places on the bridge



NOTES:
Maximum jack location eccentricity on Bent Caps or at Abutments
L = 6"

SUPPORT LOCATION
NO SCALE

NOTE:
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STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Sharon Yen	CHECKED Jose M Aquino III	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	19-0099	PENRYN ROAD OVERCROSSING (RAISE) INDEX TO PLANS NO. 2
	DETAILS	BY Nancy C Gwynn	CHECKED Jose M Aquino III			POST MILE	10.4	
	QUANTITIES	BY Seung Pyo Hong	CHECKED Quang H Nguyen			UNIT: 3578	PROJECT NUMBER & PHASE: 03000004731	

DISREGARD PRINTS BEARING EARLIER REVISION DATES

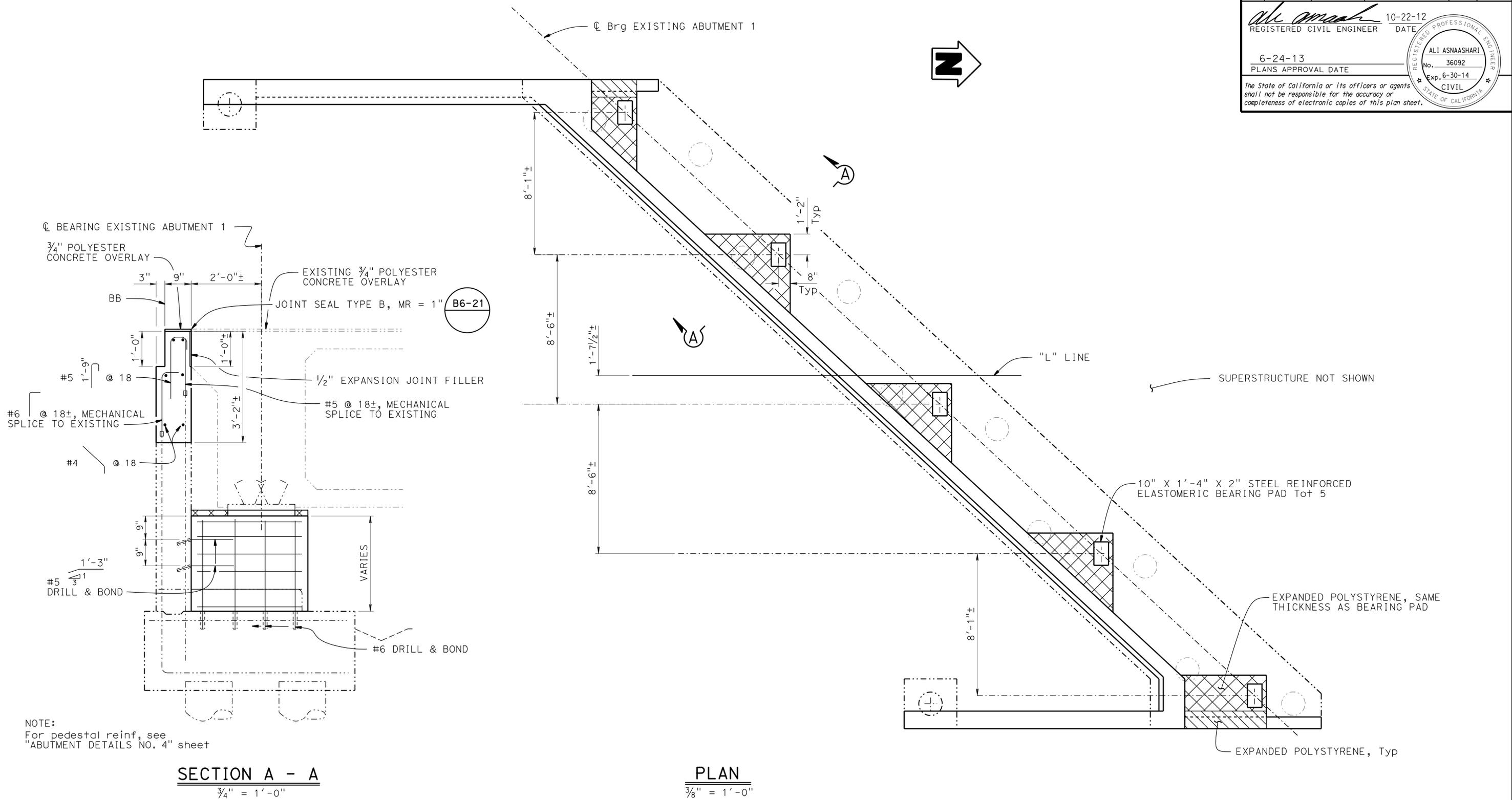
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plac	80	8.1/37.8	406	437

10-22-12
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 ALI ASNAASHARI
 No. 36092
 Exp. 6-30-14
 CIVIL
 STATE OF CALIFORNIA

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

PLAN
3/8" = 1'-0"

NOTE:
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- NOTES:
1. New Abutment Pedestal dimensions and Wingwall length matches existing dimensions except where shown
 2. For dimensions not shown, see "CONCRETE REMOVAL DETAILS NO. 1" sheet

DESIGN	BY Sharon Yen	CHECKED Jose M Aquino III
DETAILS	BY Nancy C Gwynn	CHECKED Jose M Aquino III
QUANTITIES	BY Seung Pyo Hong	CHECKED Quang H Nguyen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 3

BRIDGE NO.	19-0099
POST MILE	10.4

PENRYN ROAD OVERCROSSING (RAISE)
ABUTMENT DETAILS NO. 1



REVISION DATES	SHEET	OF
10-26-11 12-07-11 12-29-11 1-20-12	4	17

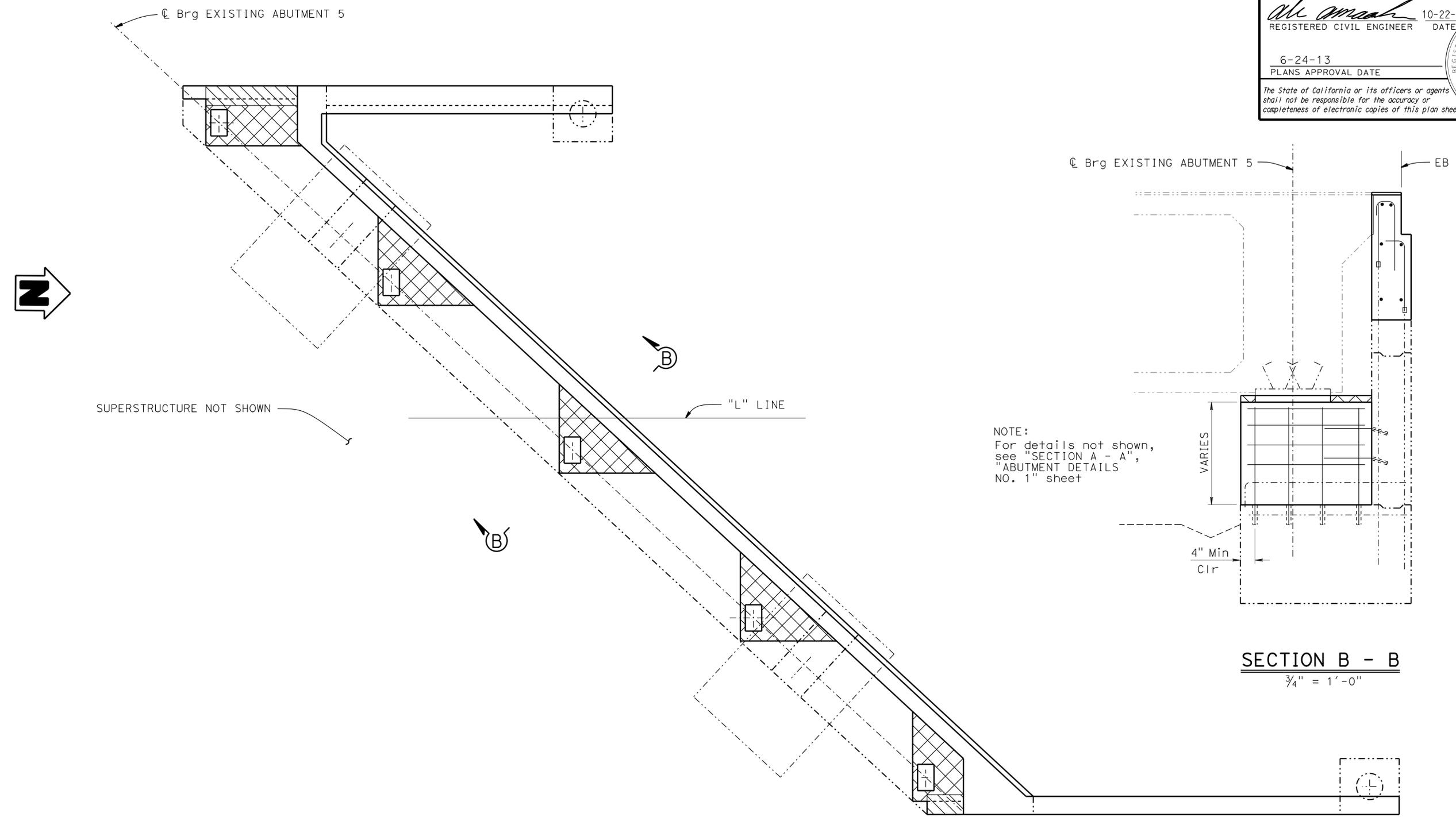
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	8.1/37.8	407	437

Ali Asnaashari 10-22-12
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No. 36092
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STATE OF CALIFORNIA

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NOTE:
For details not shown,
see "SECTION A - A",
"ABUTMENT DETAILS
NO. 1" sheet

PLAN
 $\frac{3}{8}'' = 1' - 0''$

NOTE:
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BEFORE ORDERING OR FABRICATING
ANY MATERIAL.

NOTE:
For details not shown, see "ABUTMENT DETAILS
NO. 1" and "CONCRETE REMOVAL DETAILS NO. 2" sheets

DESIGN	BY Sharon Yen	CHECKED Jose M Aquino III
DETAILS	BY Nancy C Gwynn	CHECKED Jose M Aquino III
QUANTITIES	BY Seung Pyo Hong	CHECKED Quang H Nguyen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 3

BRIDGE NO.	19-0099
POST MILE	10.4

PENRYN ROAD OVERCROSSING (RAISE)
ABUTMENT DETAILS NO. 2

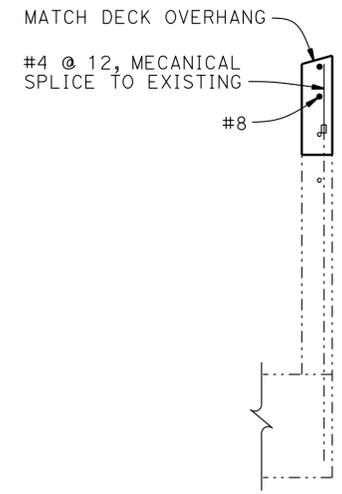
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	8.1/37.8	408	437

Ali Asnaashari 10-22-12
REGISTERED CIVIL ENGINEER DATE

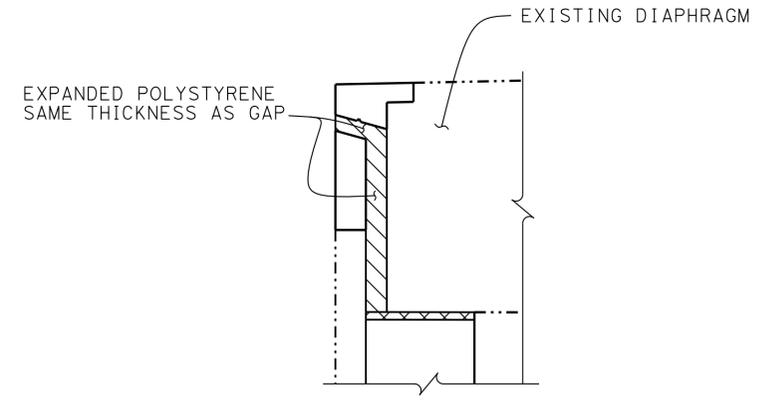
6-24-13
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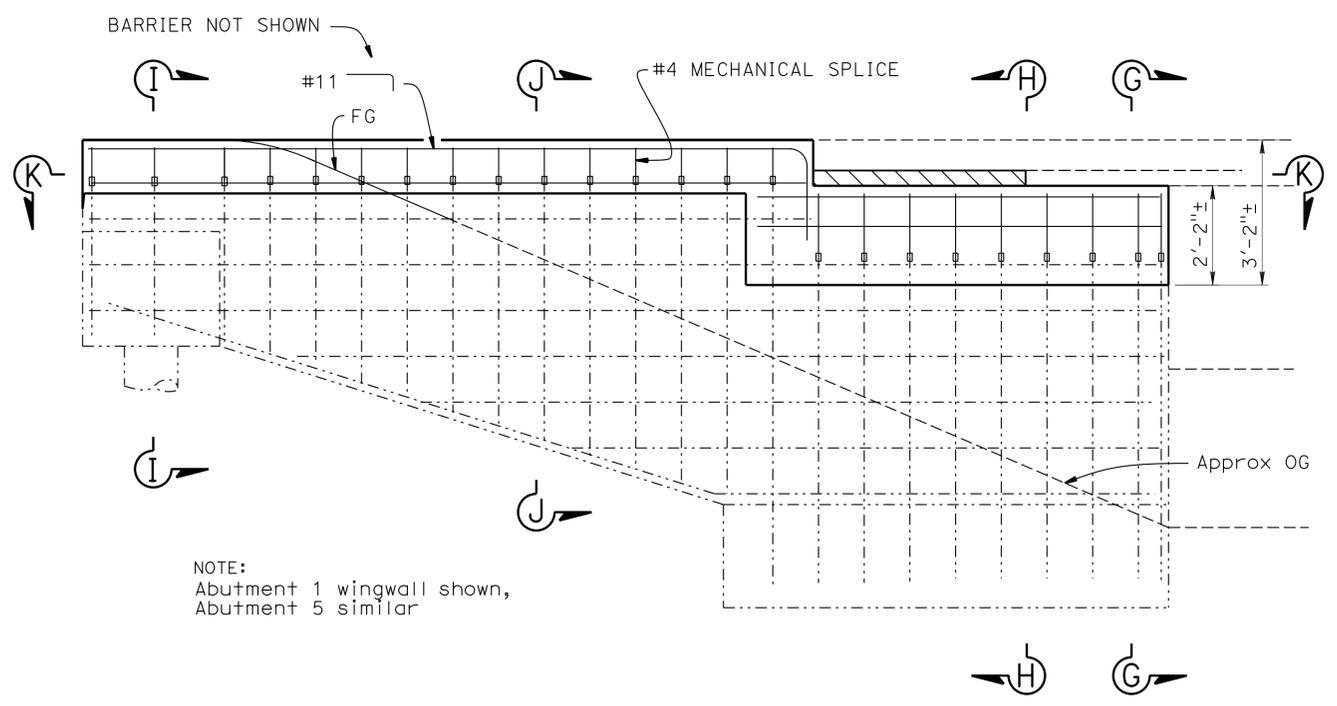
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SECTION G - G
1/2" = 1'-0"

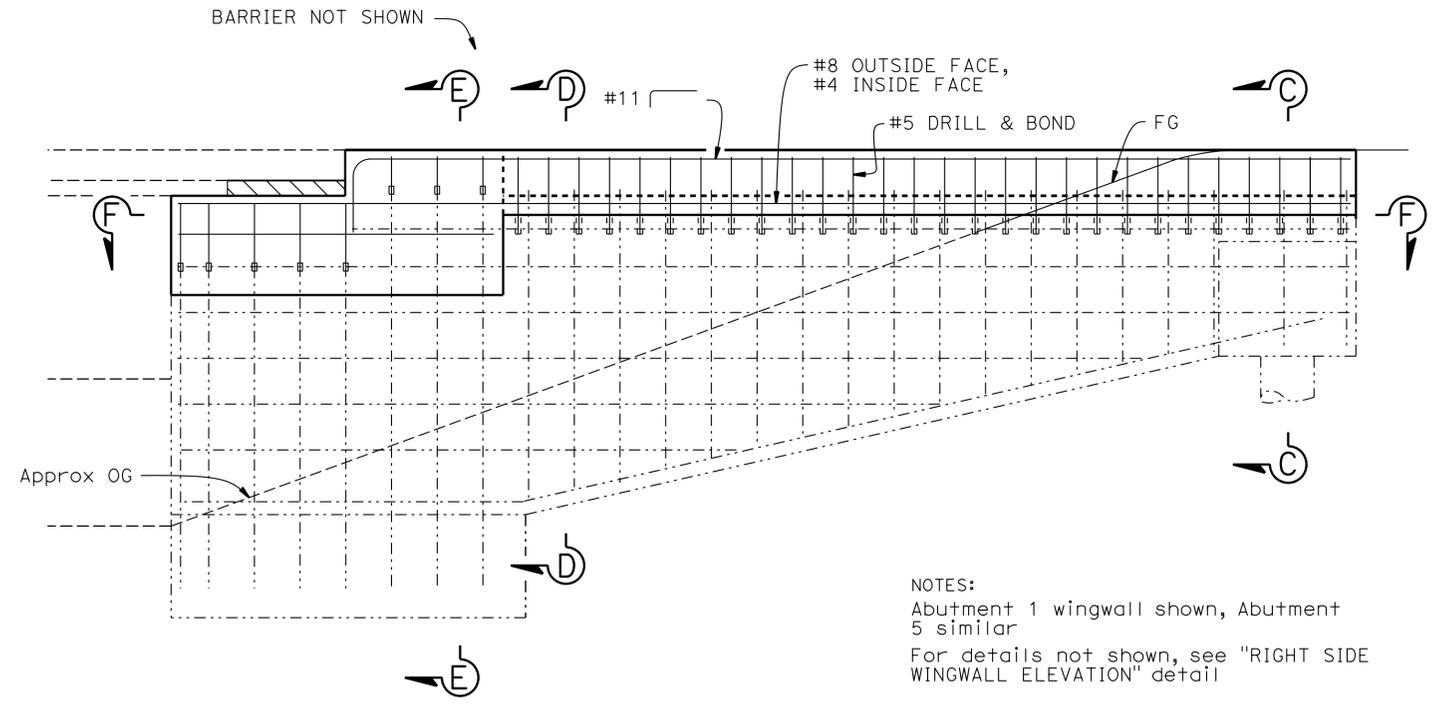


SECTION H - H
1/2" = 1'-0"



RIGHT SIDE WINGWALL ELEVATION
1/2" = 1'-0"

NOTE:
Abutment 1 wingwall shown,
Abutment 5 similar



LEFT SIDE WINGWALL ELEVATION
1/2" = 1'-0"

NOTES:
Abutment 1 wingwall shown, Abutment
5 similar
For details not shown, see "RIGHT SIDE
WINGWALL ELEVATION" detail

NOTE:
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BEFORE ORDERING OR FABRICATING
ANY MATERIAL.

- NOTES:
- For "SECTION C - C", "SECTION D - D", "SECTION E - E", "SECTION F - F", "SECTION I - I", "SECTION J - J" and "SECTION K - K", see "ABUTMENT DETAILS NO. 5" sheet
 - Abutment 1 shown, Abutment 5 similar

DESIGN	BY Sharon Yen	CHECKED Jose M Aquino III
DETAILS	BY Nancy C Gwynn	CHECKED Jose M Aquino III
QUANTITIES	BY Seung Pyo Hong	CHECKED Quang H Nguyen

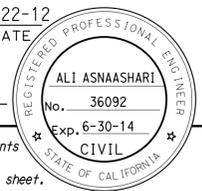
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

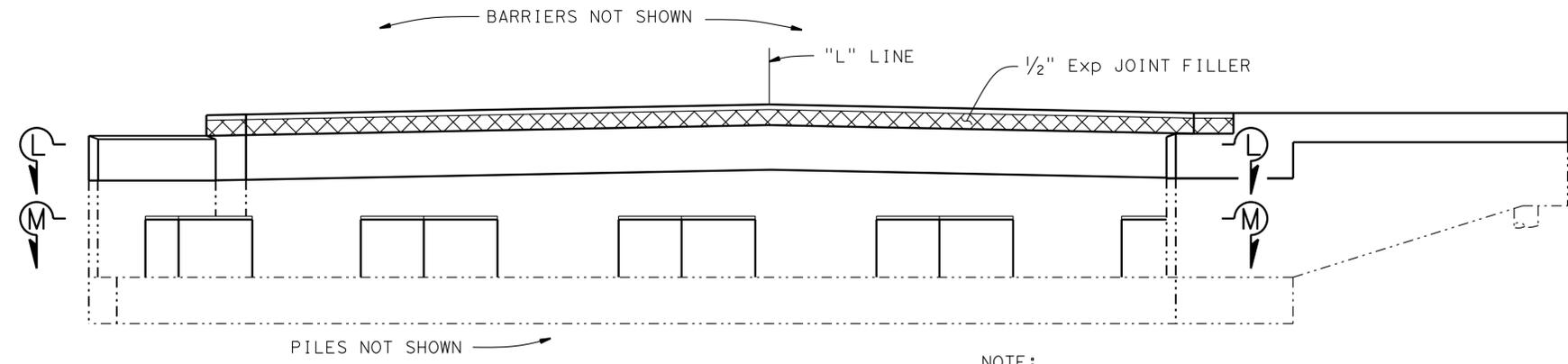
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 3

BRIDGE NO.	19-0099
POST MILE	10.4

PENRYN ROAD OVERCROSSING (RAISE)
ABUTMENT DETAILS NO. 3

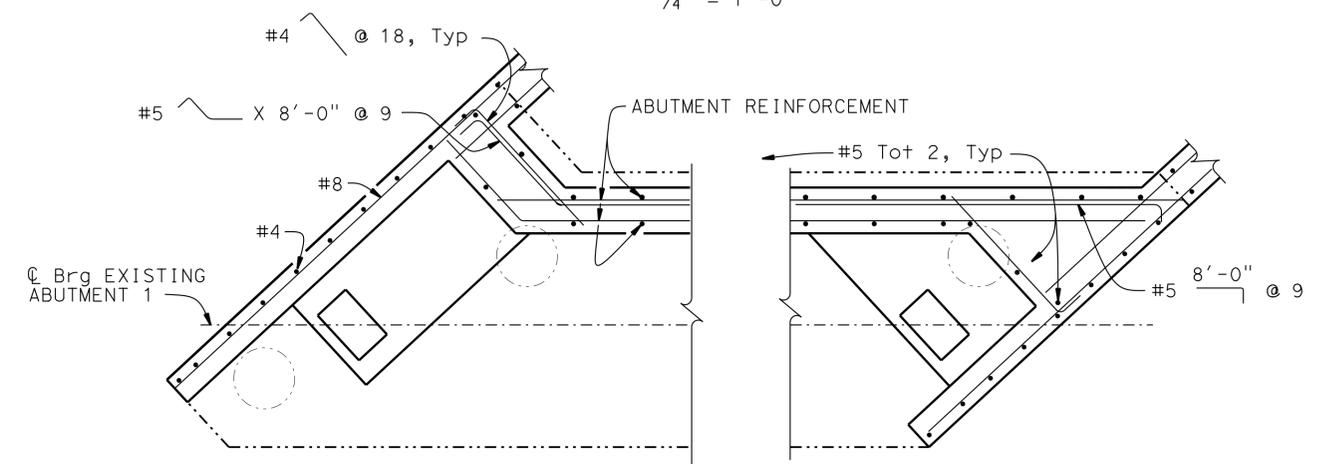
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	8.1/37.8	409	437


 10-22-12
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
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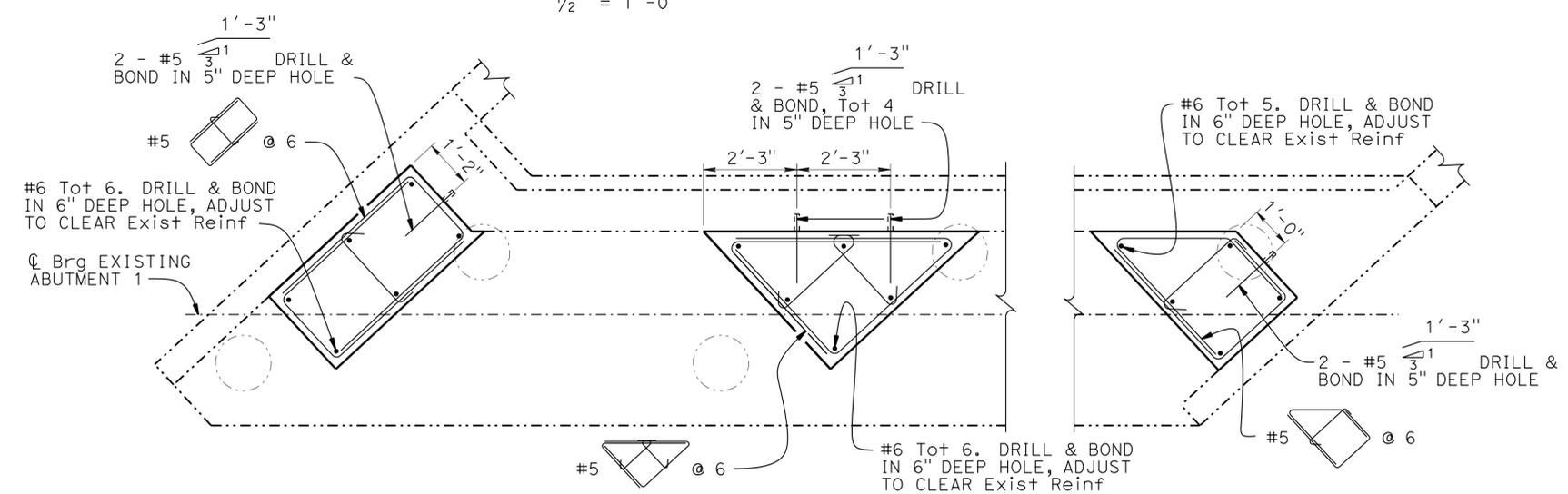
ELEVATION
1/4" = 1'-0"

NOTE:
Superstructure not shown



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

- NOTES:
1. Abutment 1 shown, Abutment 5 similar
 2. For details not shown, see "SECTION A - A", "ABUTMENT DETAILS NO. 1" sheet



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

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

DESIGN	BY Sharon Yen	CHECKED Jose M Aquino III
DETAILS	BY Nancy C Gwynn	CHECKED Jose M Aquino III
QUANTITIES	BY Seung Pyo Hong	CHECKED Quang H Nguyen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 3

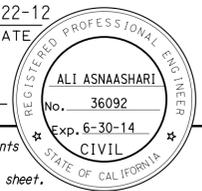
BRIDGE NO.	19-0099
POST MILE	10.4

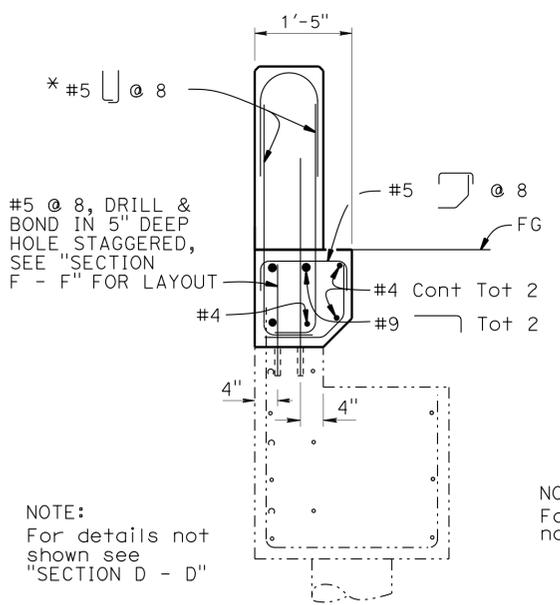
PENRYN ROAD OVERCROSSING (RAISE)
ABUTMENT DETAILS NO. 4



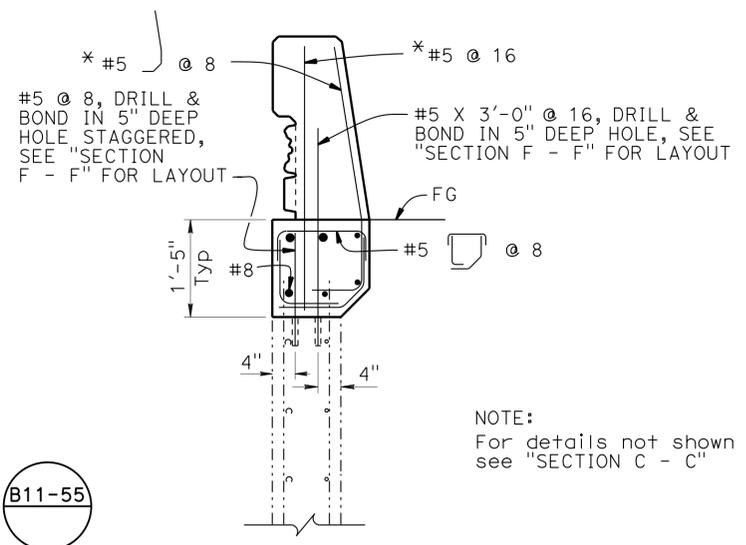
REVISION DATES	SHEET	OF
3-26-11 10-18-12 12-24-11	7	17

USERNAME => s124486 DATE PLOTTED => 28-JUN-2013 TIME PLOTTED => 1:34:09

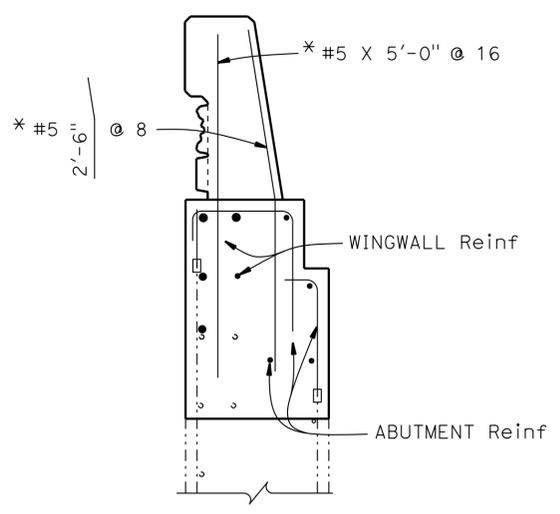
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	8.1/37.8	410	437
 REGISTERED CIVIL ENGINEER			10-22-12	DATE	
6-24-13			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



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



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

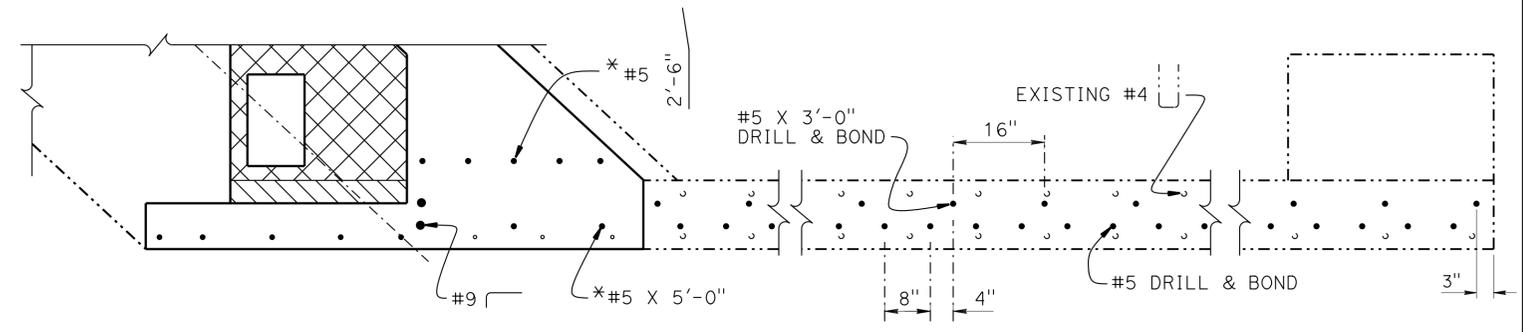


SECTION E - E
3/4" = 1'-0"

NOTE:
For details not shown see "SECTION D - D"

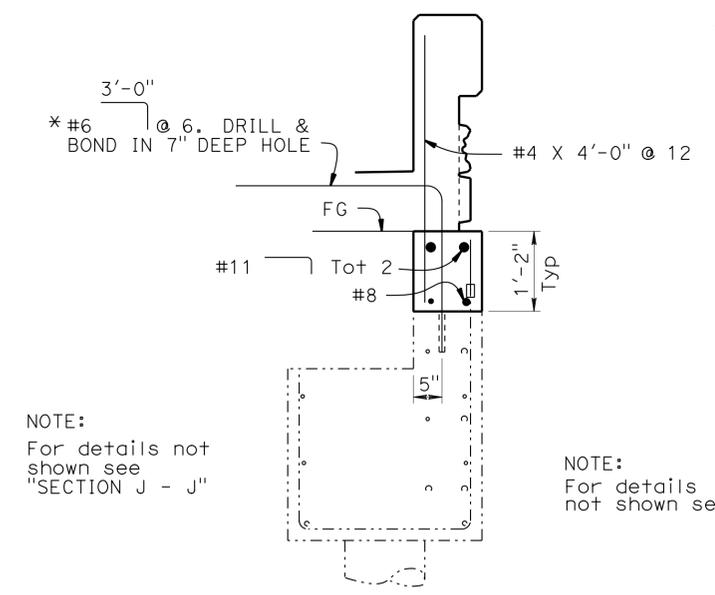
NOTE:
For details not shown see **(B11-55)**

NOTE:
For details not shown see "SECTION C - C"



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

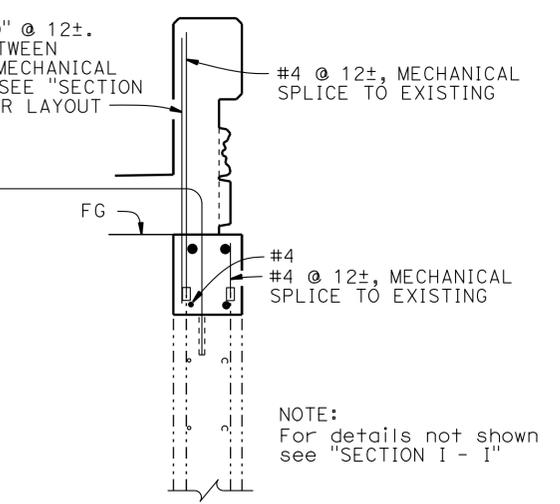
NOTE:
All reinforcement not shown



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

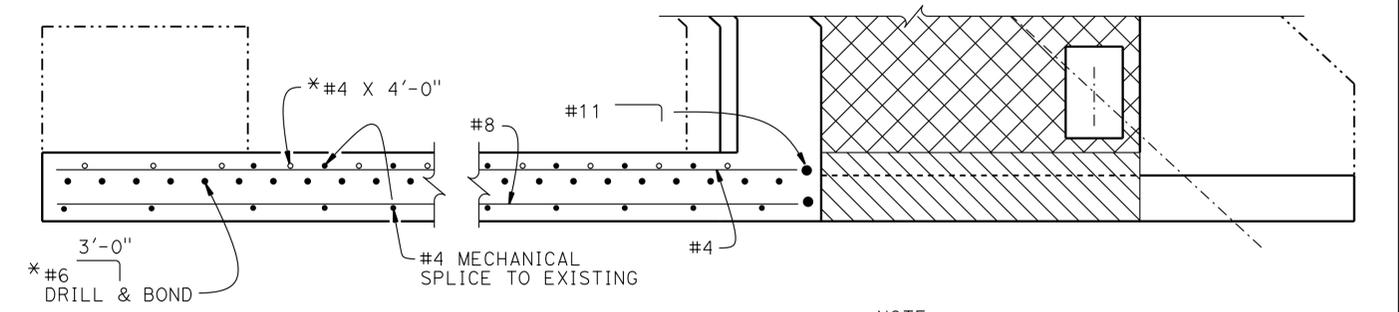
NOTE:
For details not shown see "SECTION J - J"

NOTE:
For details not shown see **(B11-54)**



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

NOTE:
For details not shown see "SECTION I - I"



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

NOTE:
All reinforcement not shown

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

LEGEND:
*Barrier Reinforcement

- NOTES:
- For location of "SECTION C - C", "SECTION D - D", "SECTION E - E", "SECTION F - F", "SECTION I - I", "SECTION J - J" and "SECTION K - K", see "ABUTMENT DETAILS NO. 3" sheet
 - For dimensions not shown, see "CONCRETE REMOVAL DETAILS NO. 2" sheet
 - Chain Link Railing not shown

DESIGN	BY Sharon Yen	CHECKED Jose M Aquino III
DETAILS	BY Nancy C Gwynn	CHECKED Jose M Aquino III
QUANTITIES	BY Seung Pyo Hong	CHECKED Quang H Nguyen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 3

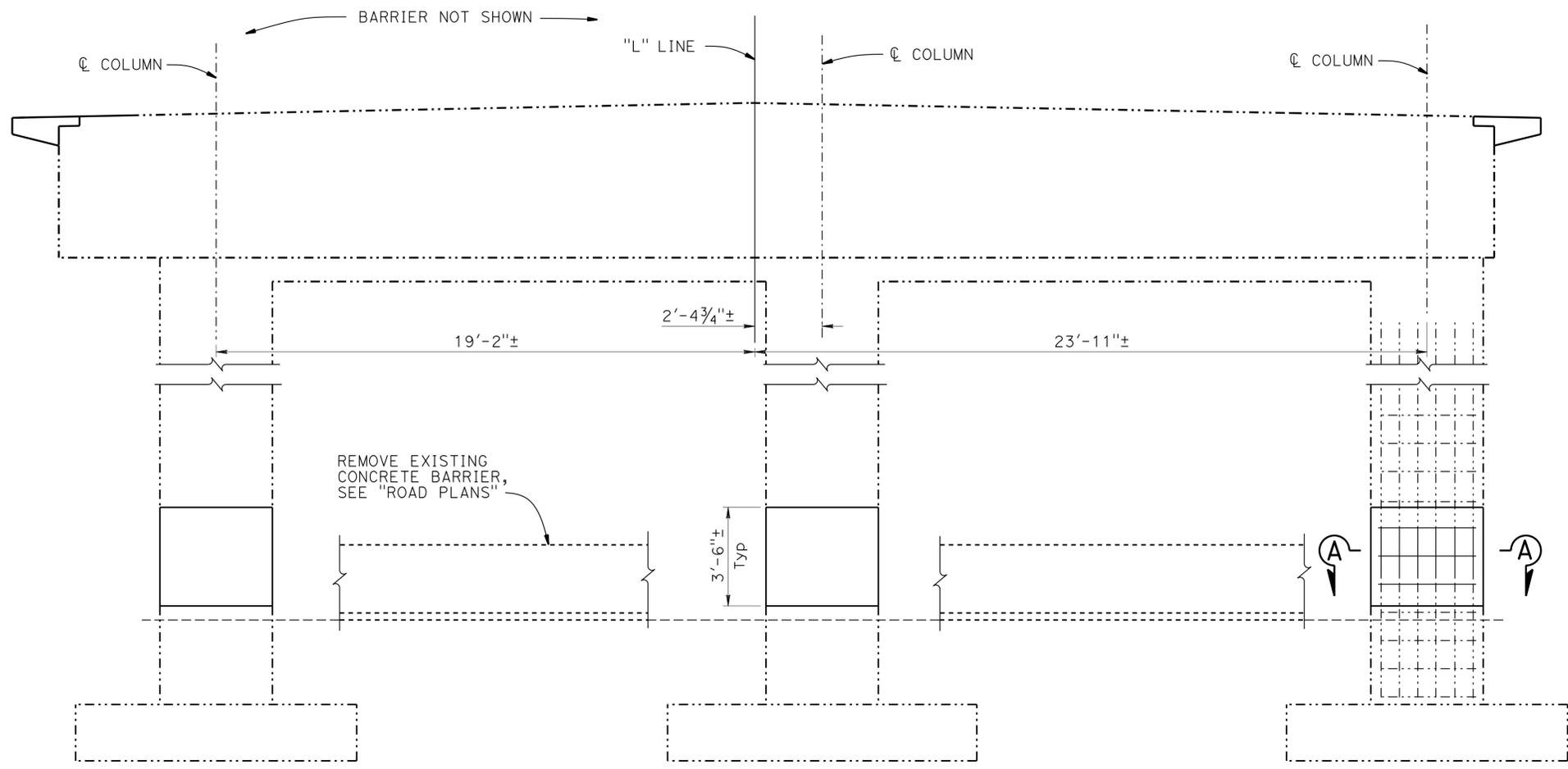
BRIDGE NO. 19-0099
POST MILE 10.4

PENRYN ROAD OVERCROSSING (RAISE)
ABUTMENT DETAILS NO. 5

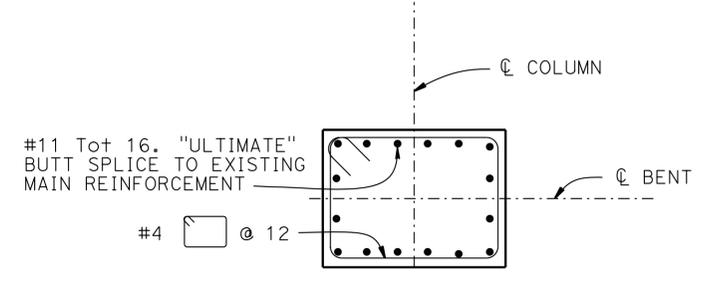
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	8.1/37.8	411	437


 REGISTERED CIVIL ENGINEER DATE 10-22-12
 PLANS APPROVAL DATE 6-24-13
 No. 36092
 Exp. 6-30-14
 CIVIL
 STATE OF CALIFORNIA

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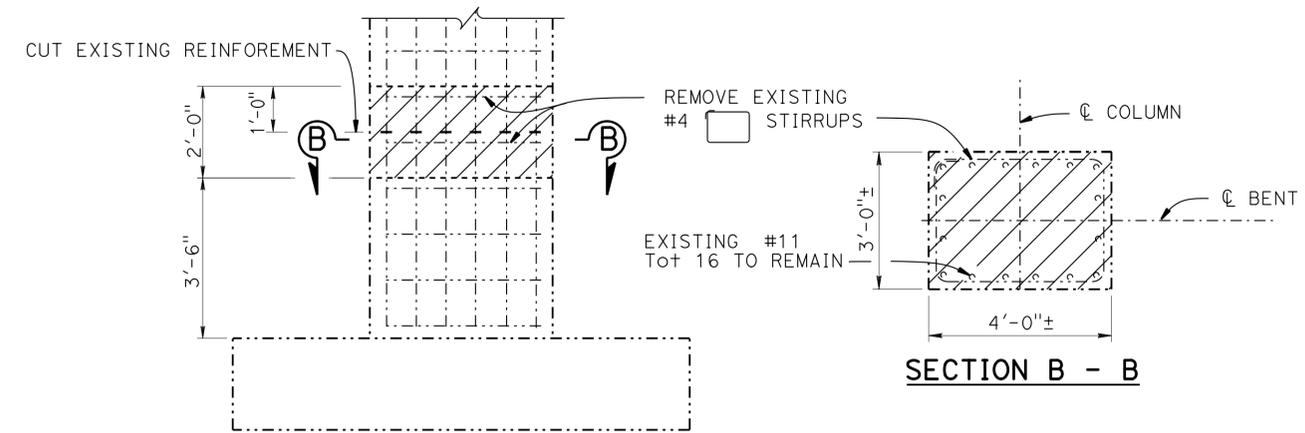


ELEVATION
3/8" = 1'-0"



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

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



PART ELEVATION

SECTION B - B

LEGEND:
 - Indicates bridge removal (portion)

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

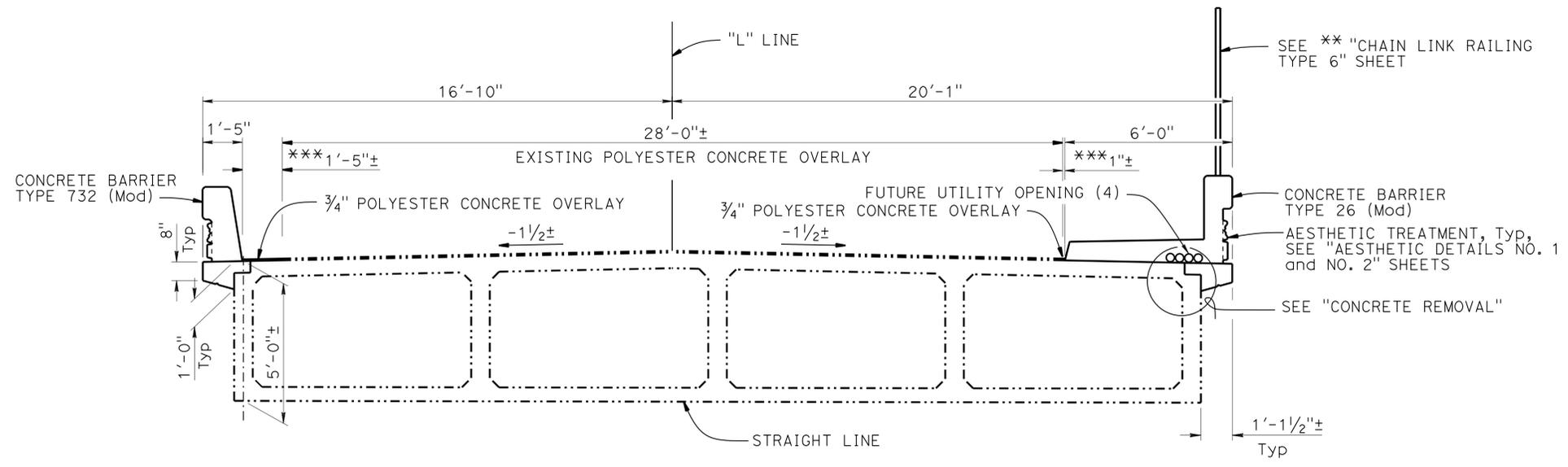
NOTE:
Details are typical for all columns

CONCRETE REMOVAL AT COLUMNS
1/2" = 1'-0"

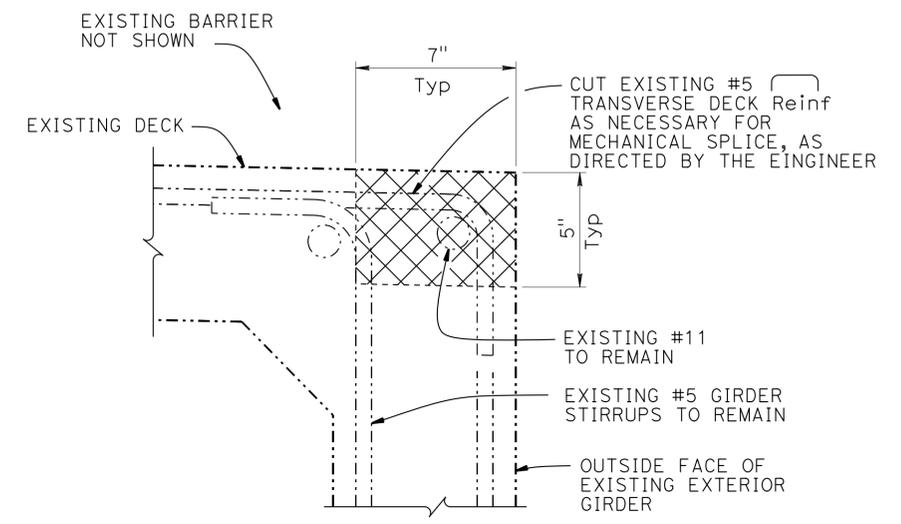
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Sharon Yen	CHECKED Jose M Aquino III	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	19-0099	PENRYN ROAD OVERCROSSING (RAISE) BENT DETAILS
	DETAILS	BY Nancy C Gwynn	CHECKED Jose M Aquino III			POST MILE	10.4	
	QUANTITIES	BY Seung Pyo Hong	CHECKED Quang H Nguyen					

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	8.1/37.8	412	437

10-22-12
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE
 ALI ASNAASHARI
 No. 36092
 Exp. 6-30-14
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

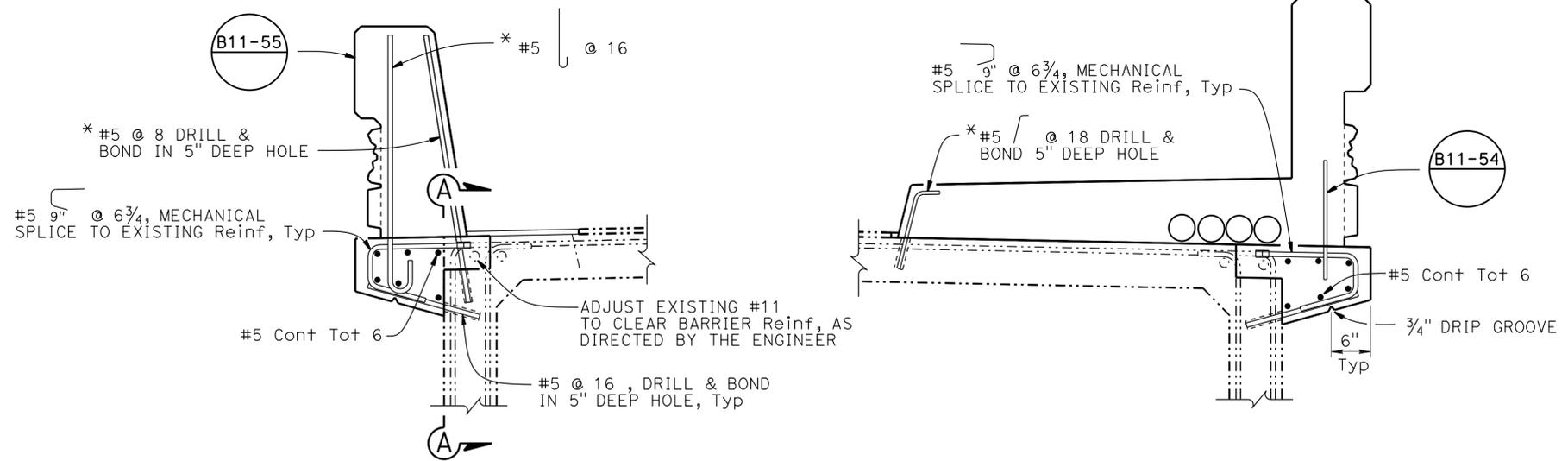


TYPICAL SECTION
3/8" = 1'-0"

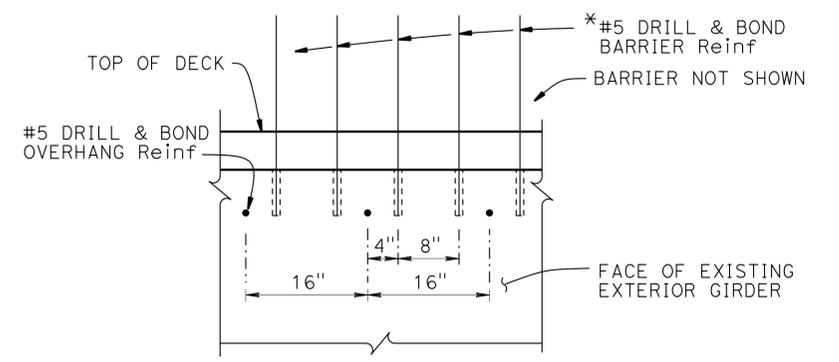


LEGEND:
 [Cross-hatched box] - Indicates concrete removal (portion), Low Impact Hammer
 NOTE:
 Right edge of deck shown, left edge of deck similar

CONCRETE REMOVAL
3" = 1'-0"



PART TYPICAL SECTION
1" = 1'-0"

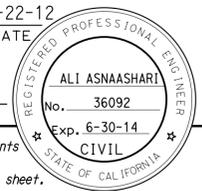


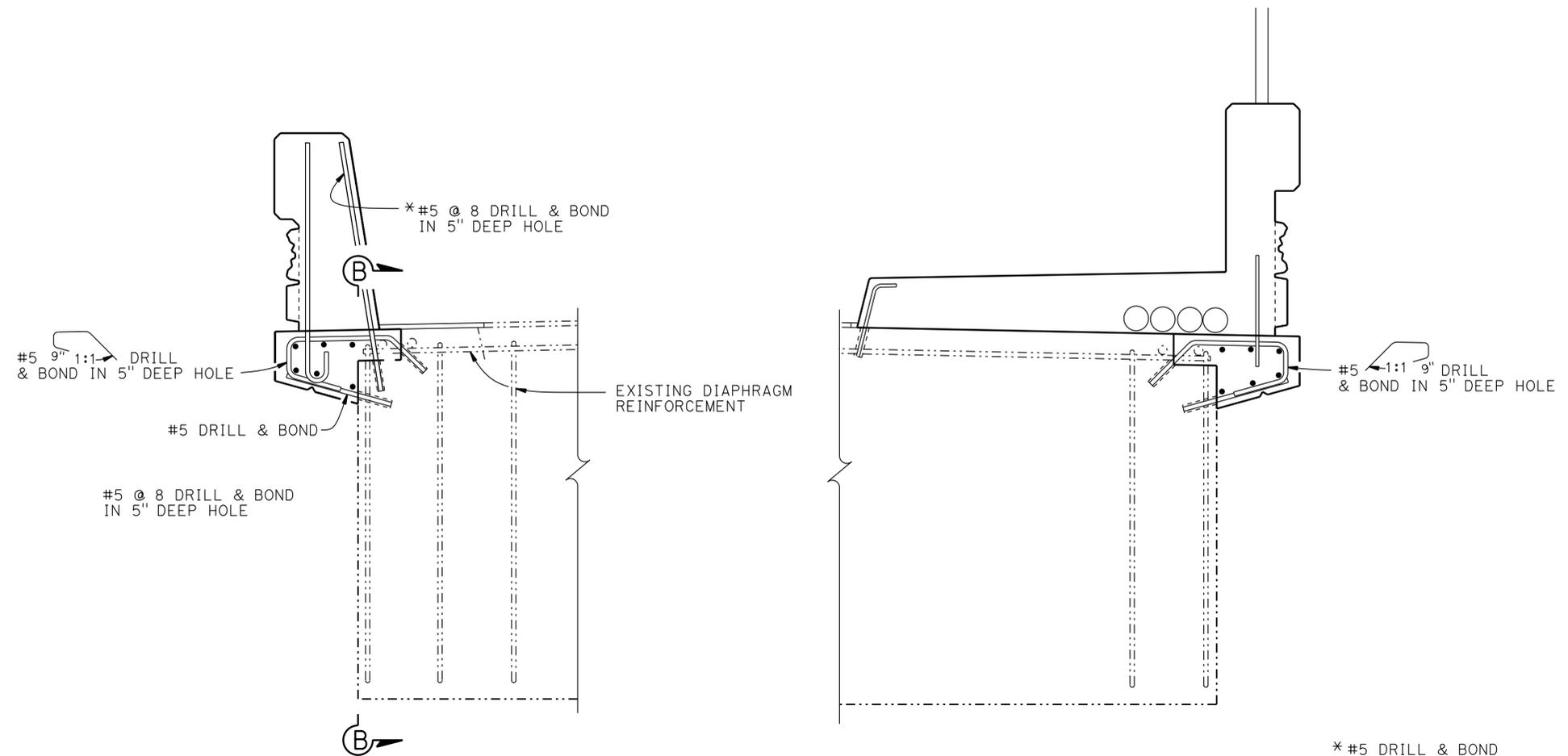
NOTE:
 All reinf not shown
SECTION A - A
 1" = 1'-0"

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

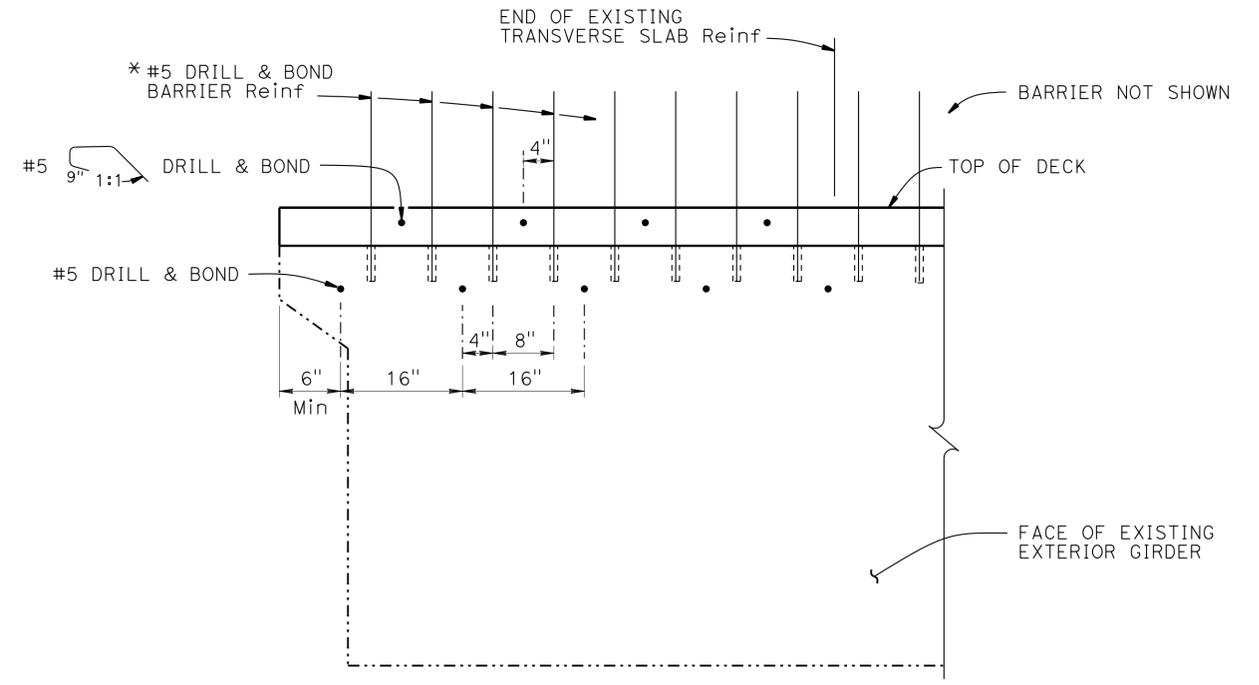
LEGEND:
 * Barrier Reinforcement
 ** Fence fabric to be black vinyl coated mesh
 *** Limits of prepare bridge deck and Polyester Concrete Overlay

DESIGN	BY Sharon Yen	CHECKED Jose M Aquino III	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	PENRYN ROAD OVERCROSSING (RAISE) TYPICAL SECTION NO. 1			
DETAILS	BY Nancy C Gwynn	CHECKED Jose M Aquino III			19-0099				
QUANTITIES	BY Seung Pyo Hong	CHECKED Quang H Nguyen			POST MILE 10.4				
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3578	PROJECT NUMBER & PHASE: 03000004731	CONTRACT NO.: 03-3E1001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 10 OF 17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plq	80	8.1/37.8	413	437
 REGISTERED CIVIL ENGINEER			10-22-12	DATE	
6-24-13 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



PART TYPICAL SECTION @ ABUTMENT DIAPHRAGM
 1" = 1'-0"



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

- LEGEND:**
 * Barrier Reinforcement
- NOTES:**
 1. For details not shown, see "TYPICAL SECTION NO. 1" sheet
 2. All diaphragm reinforcement not shown

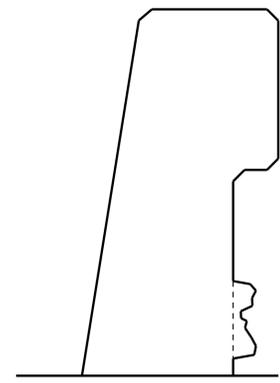
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Sharon Yen	CHECKED Jose M Aquino III	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	PENRYN ROAD OVERCROSSING (RAISE) TYPICAL SECTION NO. 2		
	DETAILS	BY Nancy C Gwynn	CHECKED Jose M Aquino III			19-0099			
	QUANTITIES	BY Seung Pyo Hong	CHECKED Quang H Nguyen			POST MILE 10.4			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					UNIT: 3578 PROJECT NUMBER & PHASE: 03000004731	CONTRACT NO.: 03-3E1001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 11-2-11 12-08-11	SHEET 11 OF 17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	8.1/37.8	414	437

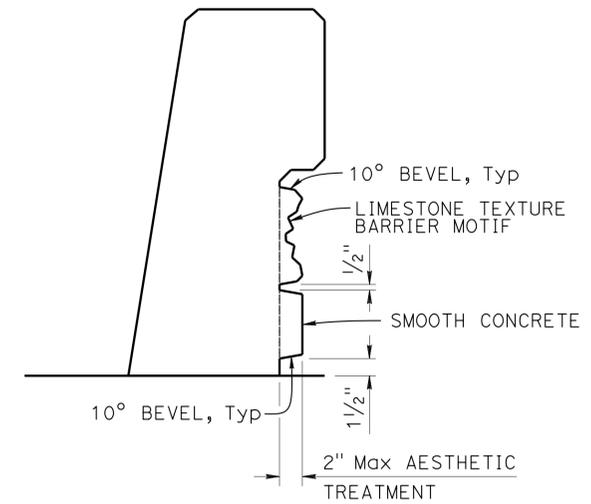
Ali Asnaashari
 REGISTERED CIVIL ENGINEER DATE 10-22-12
 PLANS APPROVAL DATE 6-24-13
 No. 36092
 Exp. 6-30-14
 CIVIL
 STATE OF CALIFORNIA

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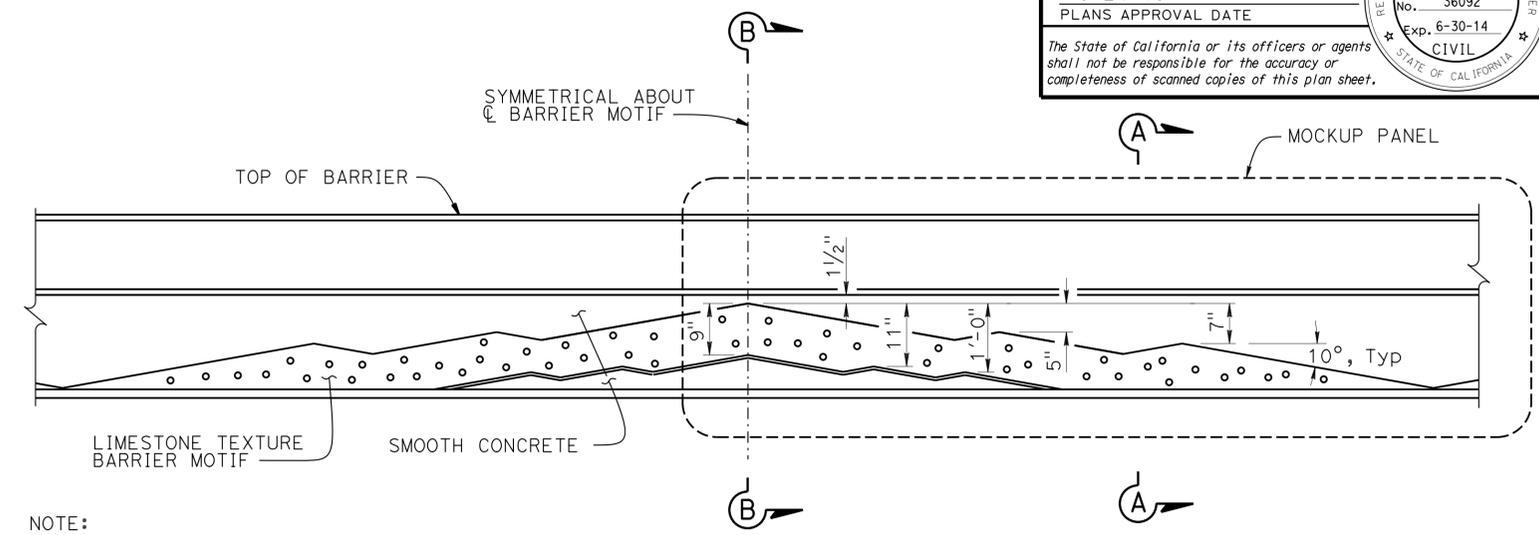


NOTE:
For details not shown, see "SECTION B - B"

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

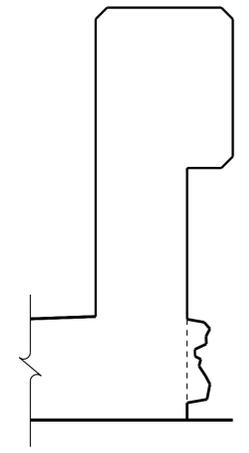


SECTION B - B
1/2" = 1'-0"



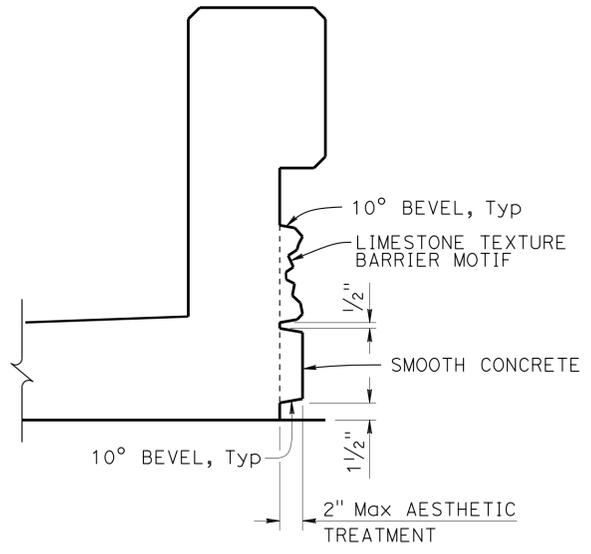
NOTE:
For details not shown, see "PART ELEVATION - CONCRETE BARRIER TYPE 26"

PART ELEVATION - CONCRETE BARRIER TYPE 732
3/4" = 1'-0"

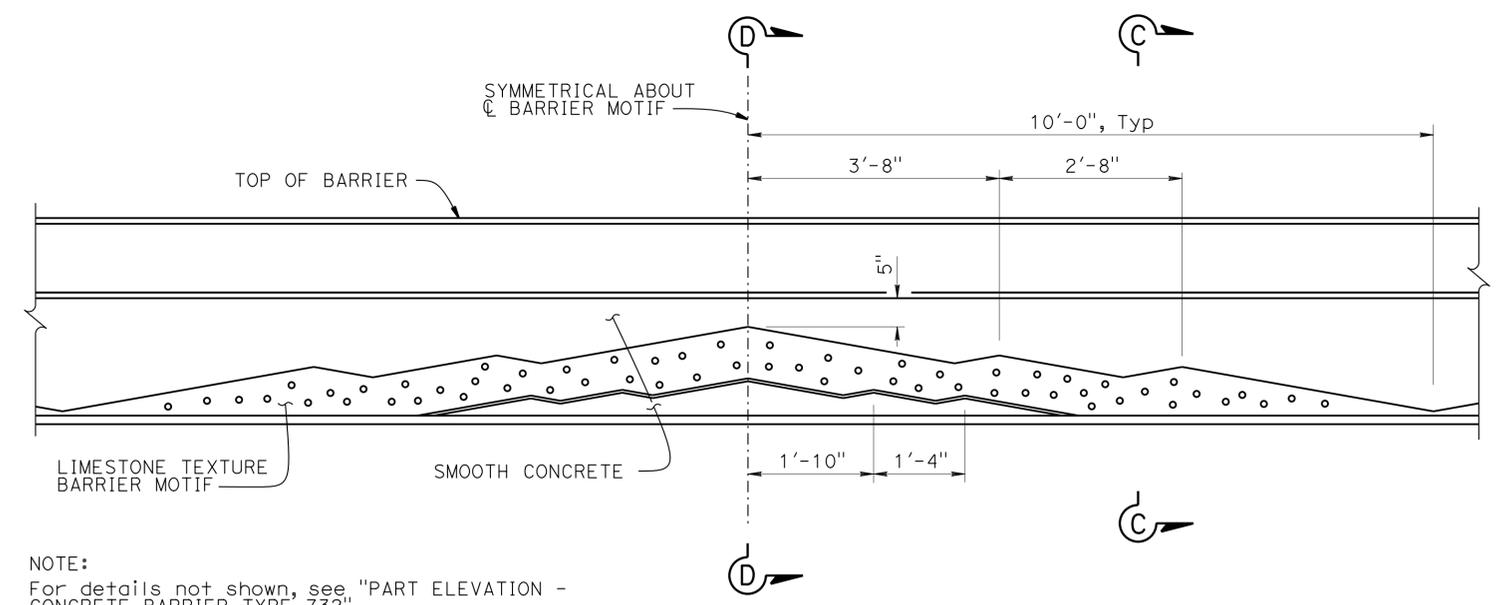


NOTE:
For details not shown, see "SECTION D - D"

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



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



NOTE:
For details not shown, see "PART ELEVATION - CONCRETE BARRIER TYPE 732"

PART ELEVATION - CONCRETE BARRIER TYPE 26
3/4" = 1'-0"

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

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY David Fowkes	CHECKED Jose M Aquino III	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	19-0099	PENRYN ROAD OVERCROSSING (RAISE) AESTHETIC DETAILS NO. 1
	DETAILS	BY Nancy C Gwynn	CHECKED Jose M Aquino III			POST MILE	10.4	
	QUANTITIES	BY Seung Pyo Hong	CHECKED Quang H Nguyen			UNIT: 3578 PROJECT NUMBER & PHASE: 03000004731	CONTRACT NO.: 03-3E1001	

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

FILE => 19-0099-1-arcd01.dgn

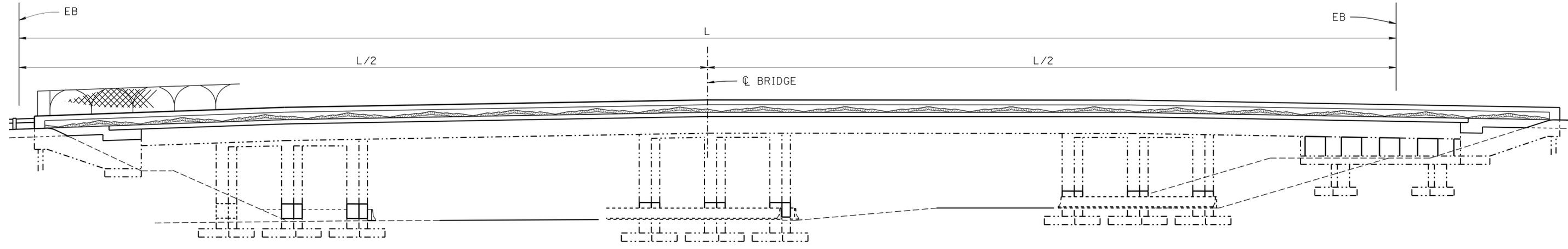
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plā	80	8.1/37.8	415	437

Ali Asnaashari 10-22-12
REGISTERED CIVIL ENGINEER DATE

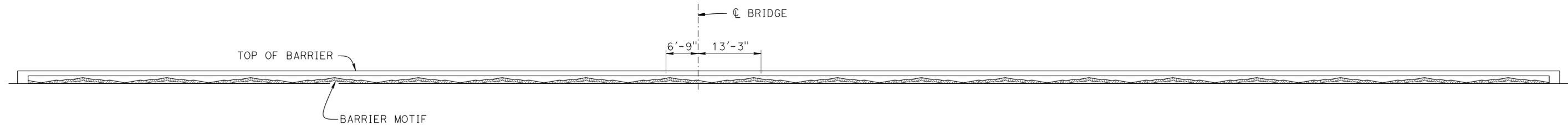
6-24-13
PLANS APPROVAL DATE

ALI ASNAASHARI
No. 36092
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

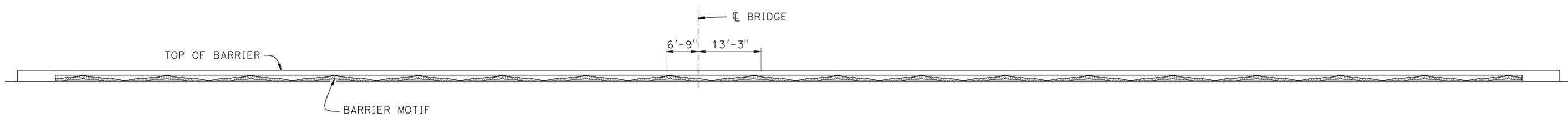
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



ELEVATION
No Scale



BARRIER TYPE 26 AESTHETIC TREATMENT
No Scale



BARRIER TYPE 732 AESTHETIC TREATMENT
No Scale

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

DESIGN	BY David Fowkes	CHECKED Jose M Aquino III
DETAILS	BY Nancy C Gwynn	CHECKED Jose M Aquino III
QUANTITIES	BY Seung Pyo Hong	CHECKED Quang H Nguyen

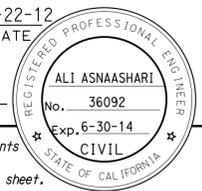
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

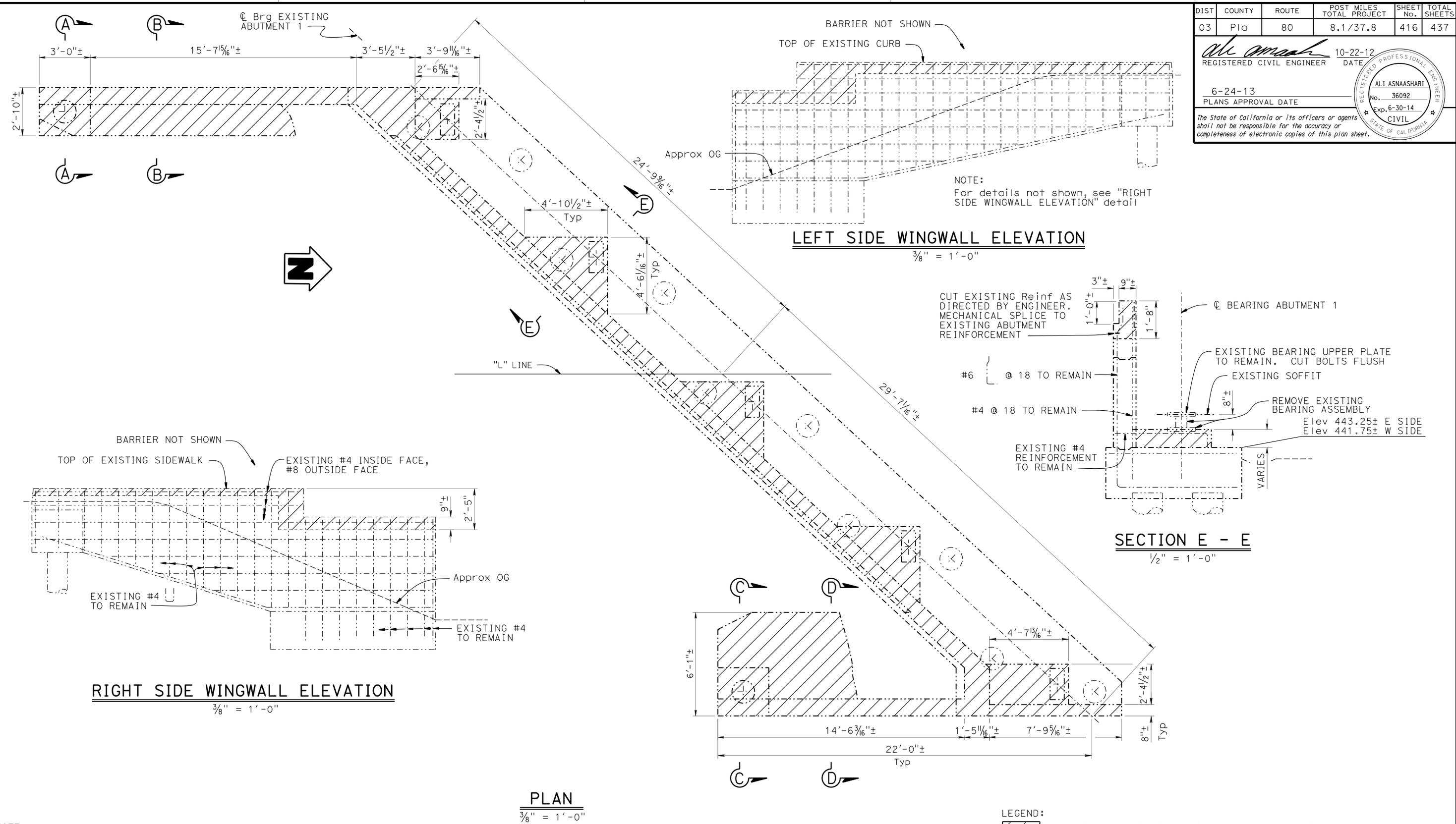
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 3

BRIDGE NO.	19-0099
POST MILE	10.4

PENRYN ROAD OVERCROSSING (RAISE)
AESTHETIC DETAILS NO. 2

TIME PLOTTED => 1:31:10
DATE PLOTTED => 28-JUN-2013
USER NAME => s124486

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plca	80	8.1/37.8	416	437
 REGISTERED CIVIL ENGINEER			10-22-12 DATE		
6-24-13 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



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

LEGEND:
 - Indicates existing bridge removal (portion)

NOTE:
 For "SECTION A - A", "SECTION B - B", "SECTION C - C" and "SECTION D - D", see "CONCRETE REMOVAL DETAILS NO. 2", sheet

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN BY Sharon Yen CHECKED Jose M Aquino III	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO. 19-0099	PENRYN ROAD OVERCROSSING (RAISE) CONCRETE REMOVAL DETAILS NO. 1
	DETAILS BY Nancy C Gwynn CHECKED Jose M Aquino III			POST MILE 10.4	
	QUANTITIES BY Seung Pyo Hong CHECKED Quang H Nguyen			UNIT: 3578 PROJECT NUMBER & PHASE: 03000004731	CONTRACT NO.: 03-3E1001
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				DISREGARD PRINTS BEARING EARLIER REVISION DATES	
0 1 2 3				REVISION DATES SHEET OF 3-13-11 10-18-11 14 17	

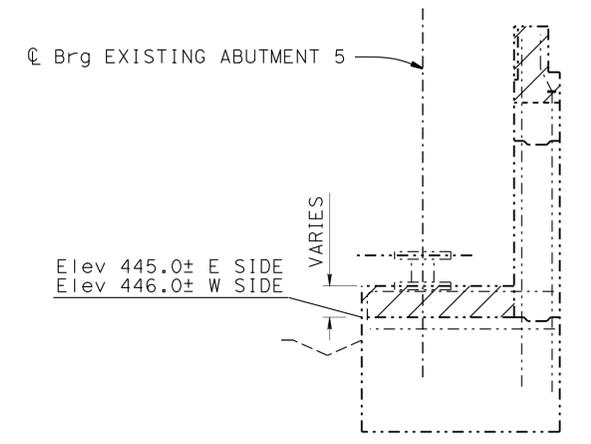
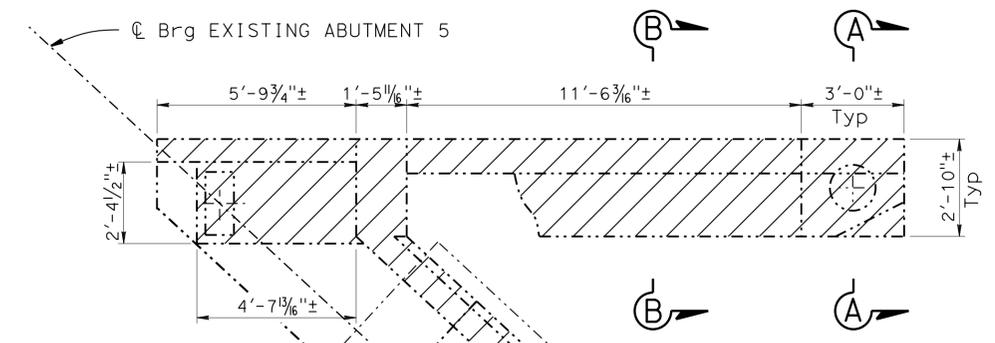
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	8.1/37.8	417	437

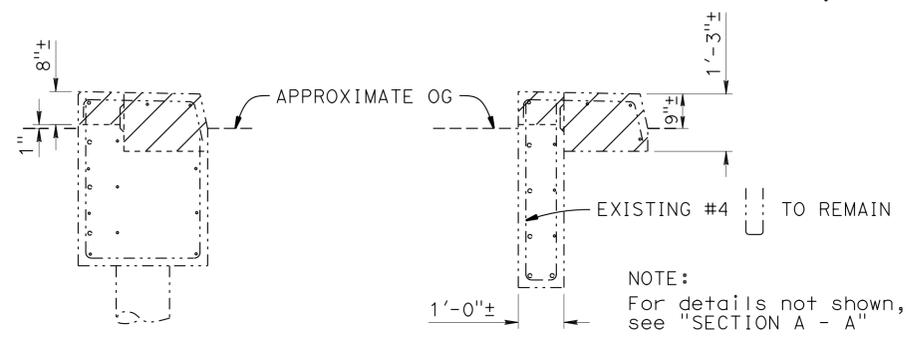
Ali Asnaashari
 REGISTERED CIVIL ENGINEER DATE 10-22-12
 6-24-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 ALI ASNAASHARI
 No. 36092
 Exp. 6-30-14
 CIVIL
 STATE OF CALIFORNIA

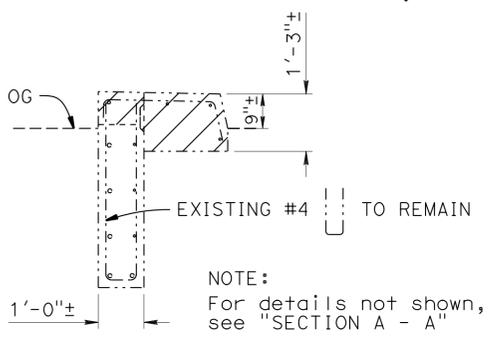
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



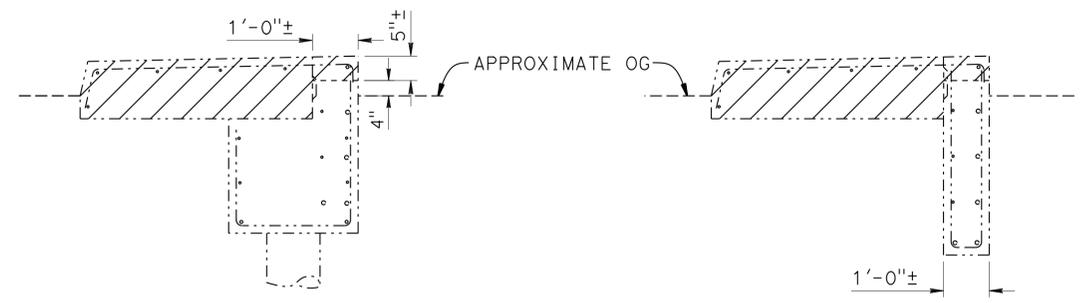
SECTION F - F
 1/2" = 1'-0"



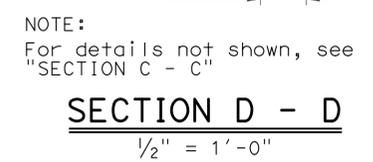
SECTION A - A
 1/2" = 1'-0"



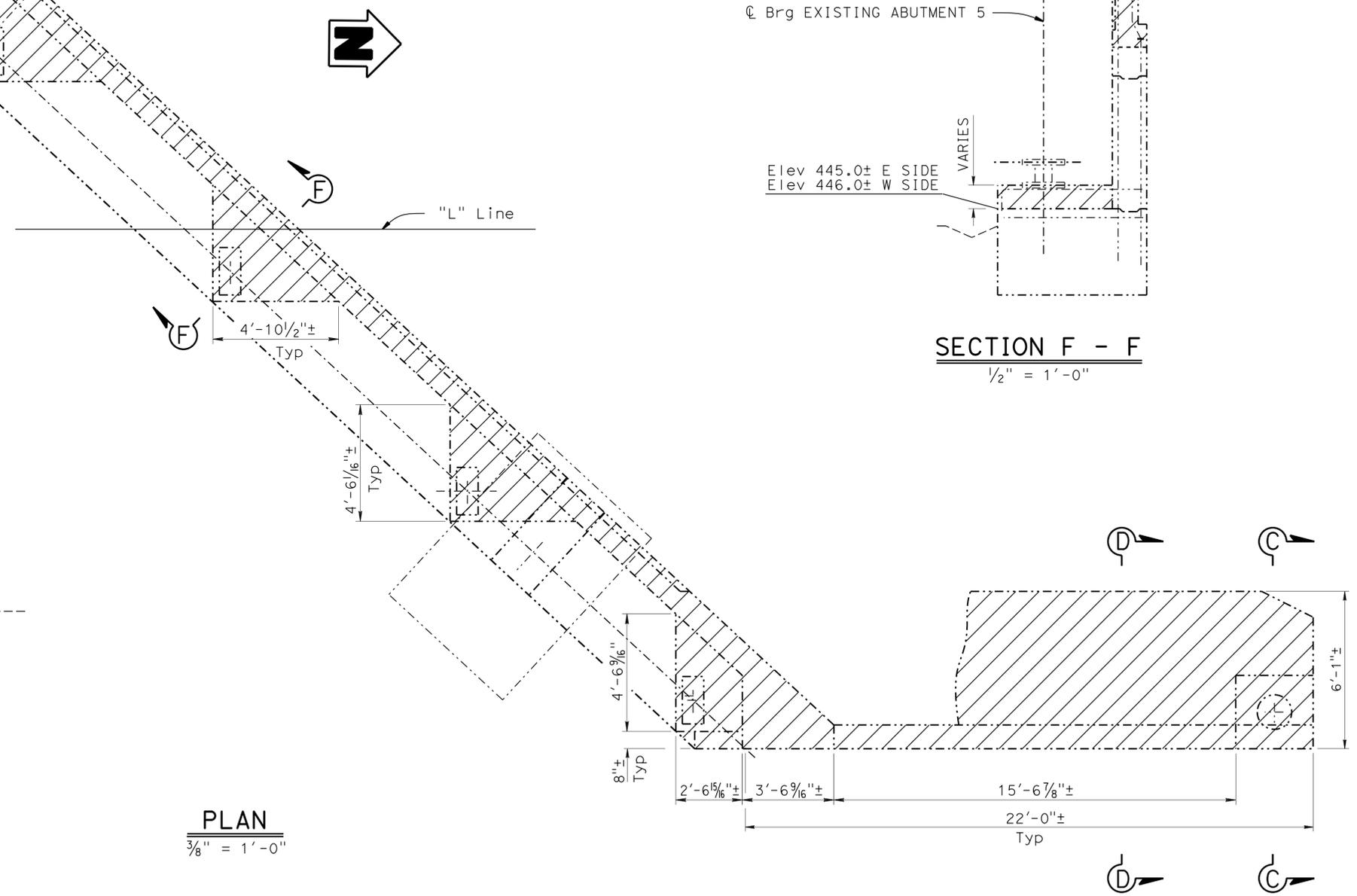
SECTION B - B
 1/2" = 1'-0"



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



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



PLAN
 3/8" = 1'-0"

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

LEGEND:
 - Indicates existing bridge removal (portion)

NOTE:
 For details not shown, see "CONCRETE REMOVAL DETAILS NO. 1" sheet

DESIGN	BY Sharon Yen	CHECKED Jose M Aquino III	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	PENRYN ROAD OVERCROSSING (RAISE) CONCRETE REMOVAL DETAILS NO. 2
	DETAILS BY Nancy C Gwynn	CHECKED Jose M Aquino III			19-0099	
	QUANTITIES BY Seung Pyo Hong	CHECKED Quang H Nguyen			POST MILE 10.4	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3578 PROJECT NUMBER & PHASE: 03000004731	CONTRACT NO.: 03-3E1001	DISREGARD PRINTS BEARING EARLIER REVISION DATES
			0 1 2 3			REVISION DATES
						3-26-11 10-18-12 2-28-13
						SHEET 15 OF 17

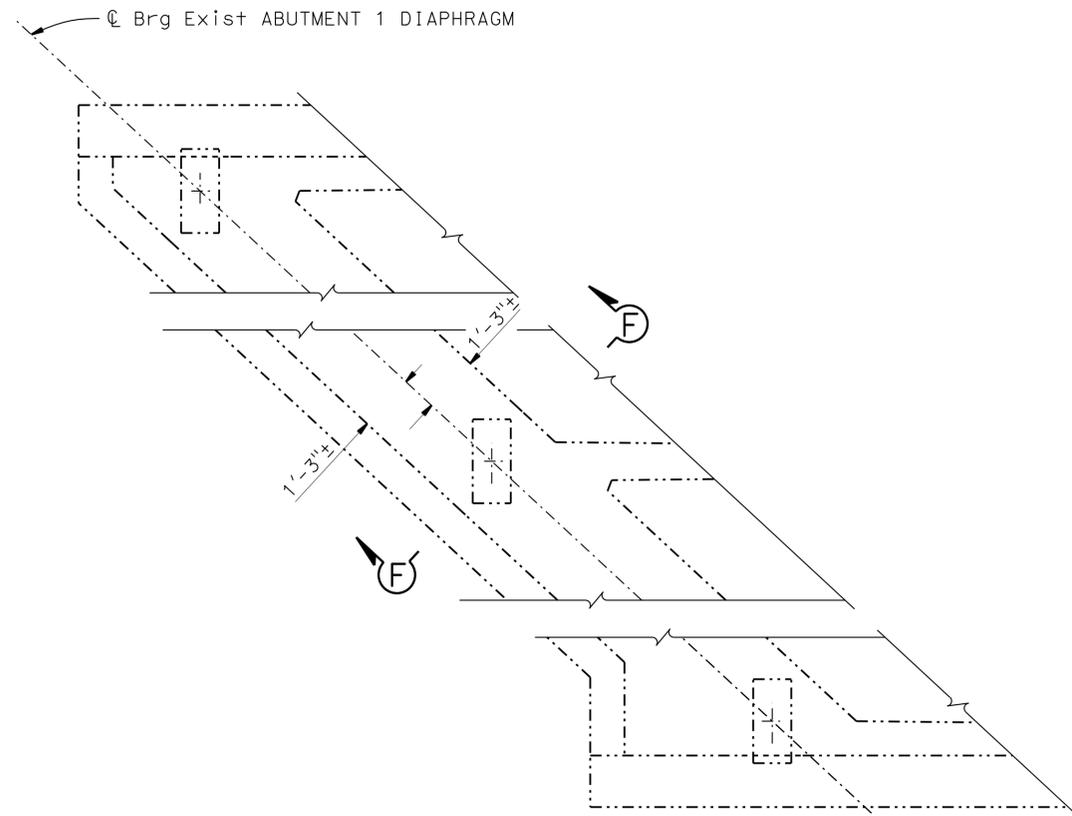
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plā	80	8.1/37.8	418	437

Ali Asnaashari 10-22-12
REGISTERED CIVIL ENGINEER DATE

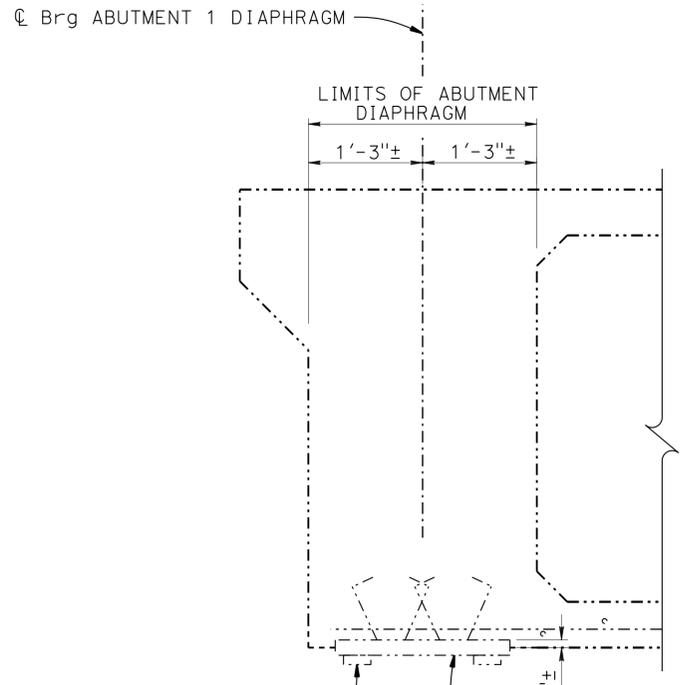
6-24-13
PLANS APPROVAL DATE

ALI ASNAASHARI
No. 36092
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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PART PLAN
1/2" = 1'-0"



REMOVE EXISTING KEEPER PLATES.
CUT BOLTS FLUSH AND GRIND SMOOTH

EXISTING BEARING PLATE TO REMAIN

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

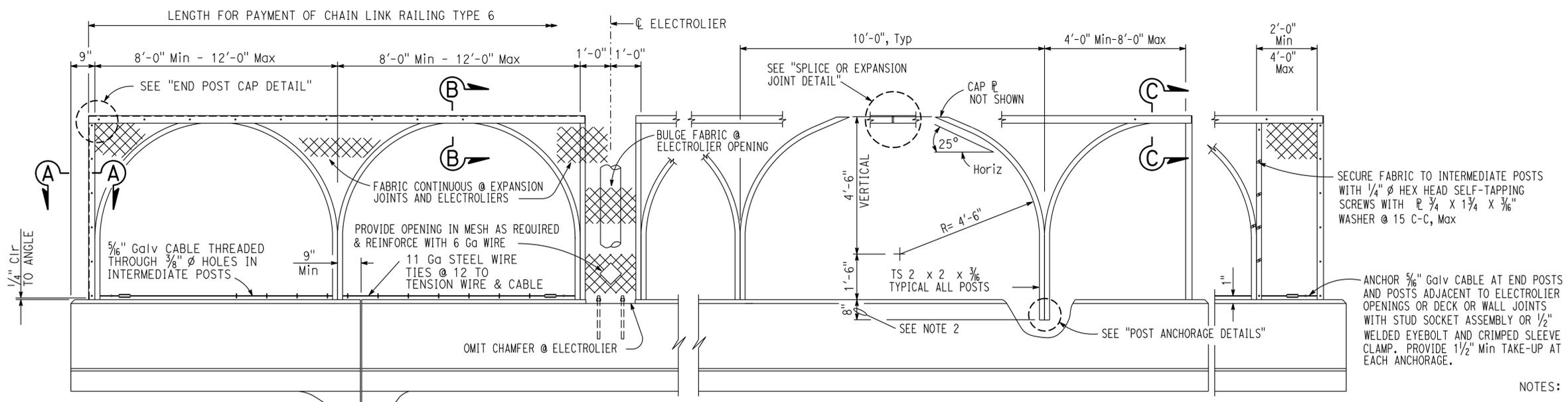
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NOTE:
Abutment 1 shown, Abutment 5 similar

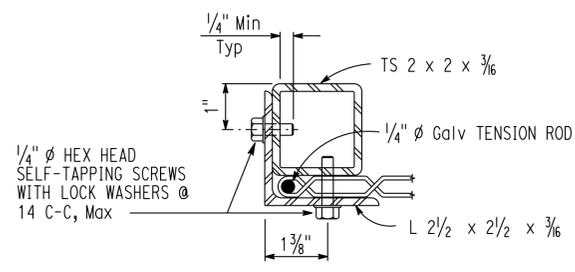
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Sharon Yen	CHECKED Jose M Aquino III	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	19-0099	PENRYN ROAD OVERCROSSING (RAISE) CONCRETE REMOVAL DETAILS NO. 3	
	DETAILS	BY Nancy C Gwynn	CHECKED Jose M Aquino III			POST MILE	10.4		
	QUANTITIES	BY Seung Pyo Hong	CHECKED Quang H Nguyen						
				UNIT: 3578	PROJECT NUMBER & PHASE: 03000004731	CONTRACT NO.: 03-3E1001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 16 OF 17

DATE PLOTTED => 28-JUN-2013
TIME PLOTTED => 1:31:10
USERNAME => s124486

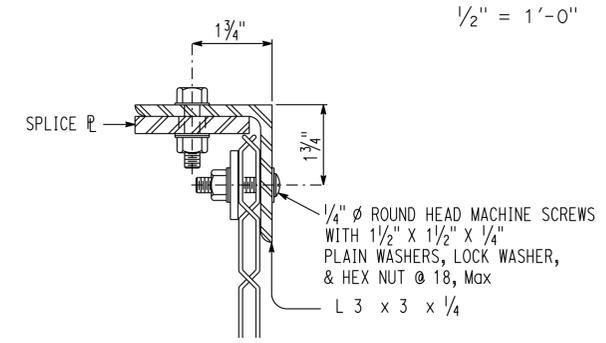
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	8.1/37.8	419	437
			10/01/12	REGISTERED CIVIL ENGINEER DATE	
			6-24-13	PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



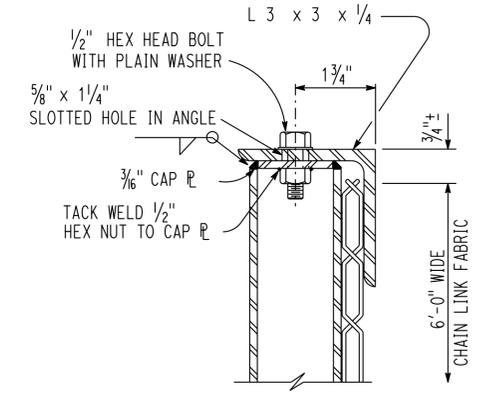
END PANEL 8'-0" - 12'-0" EXPANSION PANEL AT ELECTROLIER TYPICAL INTERIOR PANEL 10'-0", Typ END PANEL 4'-0" - 8'-0" END PANEL 2'-0" - 4'-0"



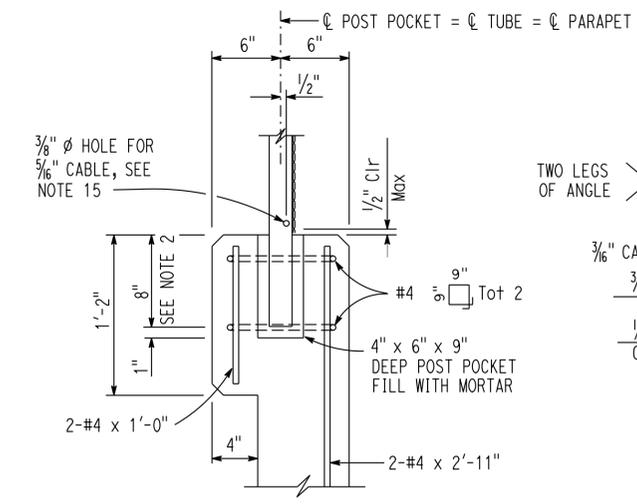
SECTION A-A
6" = 1'-0"



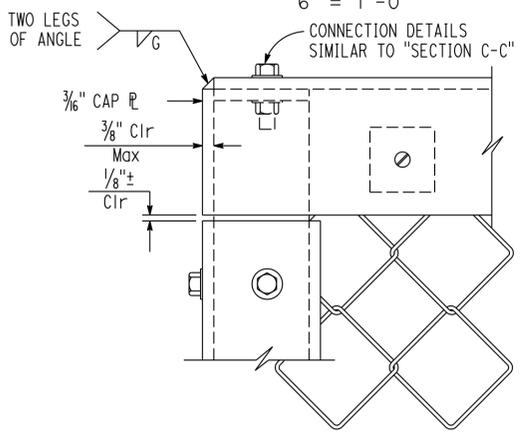
SECTION B-B
6" = 1'-0"



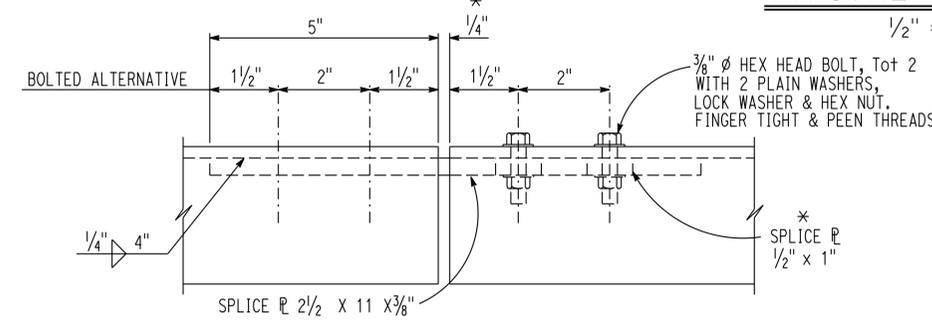
SECTION C-C
6" = 1'-0"



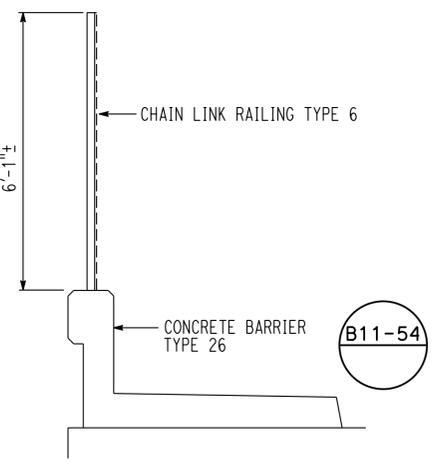
POST ANCHORAGE DETAIL
1 1/2" = 1'-0"



END POST CAP DETAIL
6" = 1'-0"



SPLICE OR EXPANSION JOINT DETAIL
6" = 1'-0"



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

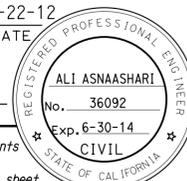
- NOTES:
- Horizontal angle shall be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electroliers and other rail discontinuities.
 - One post may be embedded 6" minimum to accommodate grade changes, otherwise fabricate post lengths as required.
 - Curved posts may be rotated in plan within its post pocket to accommodate curved horizontal alignment.
 - Straight posts and straight portions of curved posts shall be installed normal to bridge profile grade.
 - Top horizontal angle shall be parallel to bridge profile grade and shall be shop bent to fit horizontal curves.
 - When railing is on slope, fabric shall be placed parallel to slope.
 - Alternative details may be submitted by Contractor for Engineer's approval.
 - For details and reinforcement not shown, see "CONCRETE BARRIER TYPE 26" sheet. (B11-54)
 - See Bridge Plans for limits of Chain Link Railing Type 6.
 - Provide thimbles at all cable loops.
 - Chain link fabric to be 6'-0" wide with 1" mesh and with knuckled selvage top and bottom.
 - When railing is placed on a horizontal alignment with a radius of 150'-0" or less, thread 5/16" cable through 3/8" diameter welded eye rods embedded 4" into the top of the concrete parapet and equally spaced to limit the middle ordinate distance between 5/16" cable and the curve to 1" maximum.
 - Splices and expansion joints shall be located at center panel.
 - Holes in posts for 5/16" cable and its anchorage may be field drilled and painted with zinc rich paint.

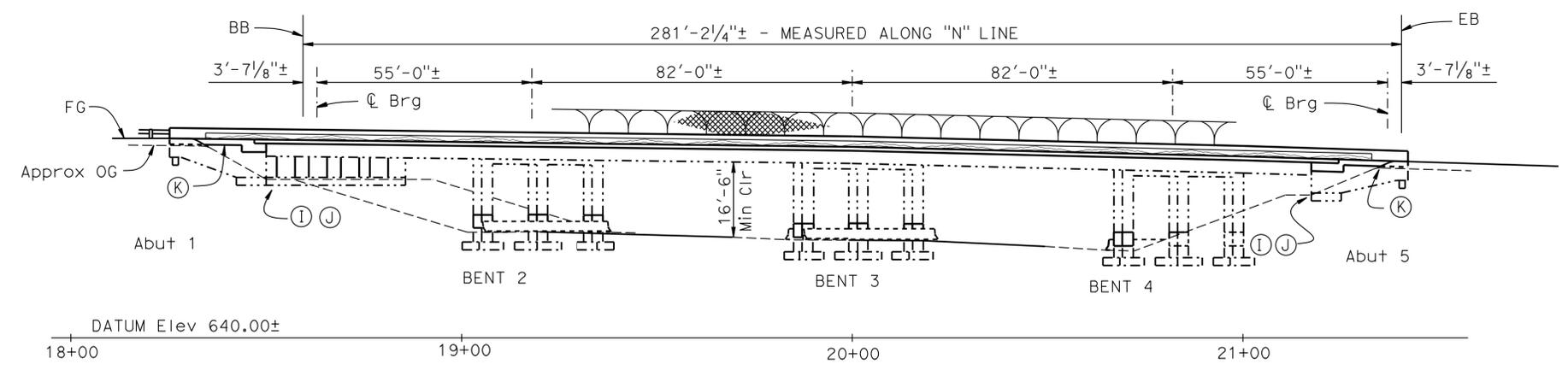
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

STANDARD DRAWING	FILE NO. xs16-200	APPROVAL DATE July 2011
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STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 19-0099 POST MILE 10.4
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PENRYN ROAD OVERCROSSING (RAISE)	
CHAIN LINK RAILING TYPE 6	

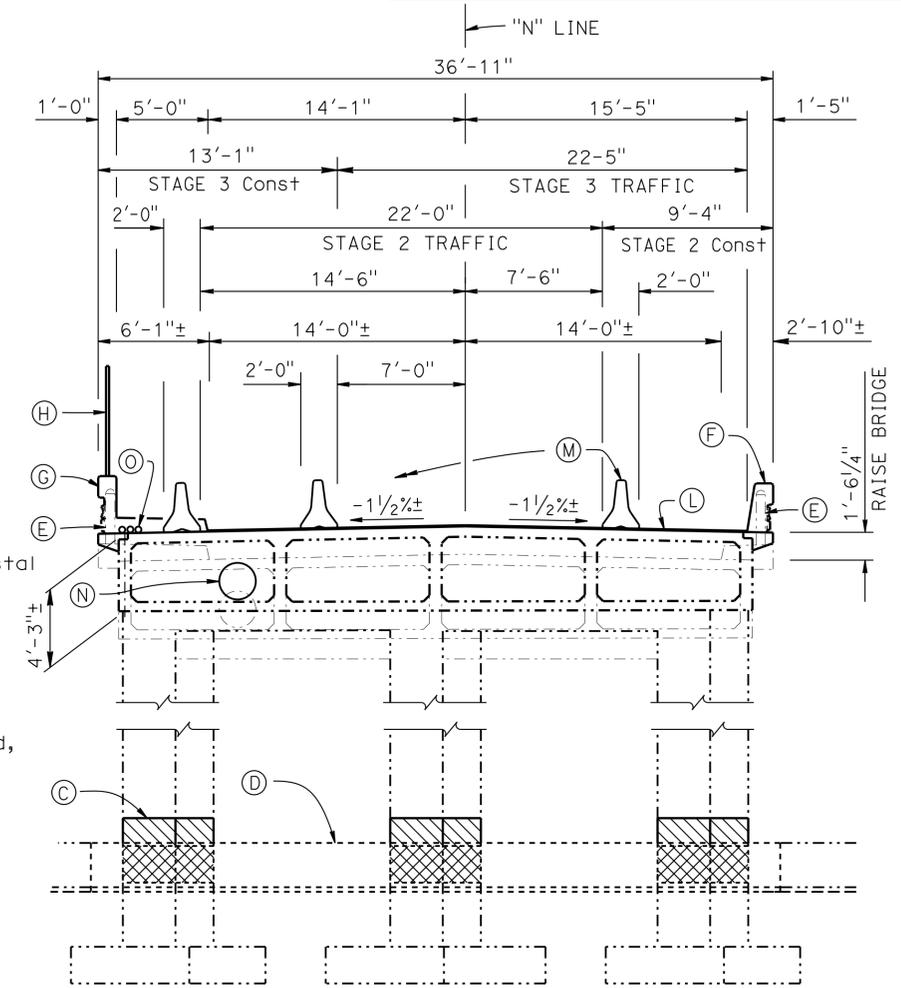
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plq	80	8.1/37.8	420	437
			10-22-12		
			6-24-13		
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ELEVATION
1" = 20'

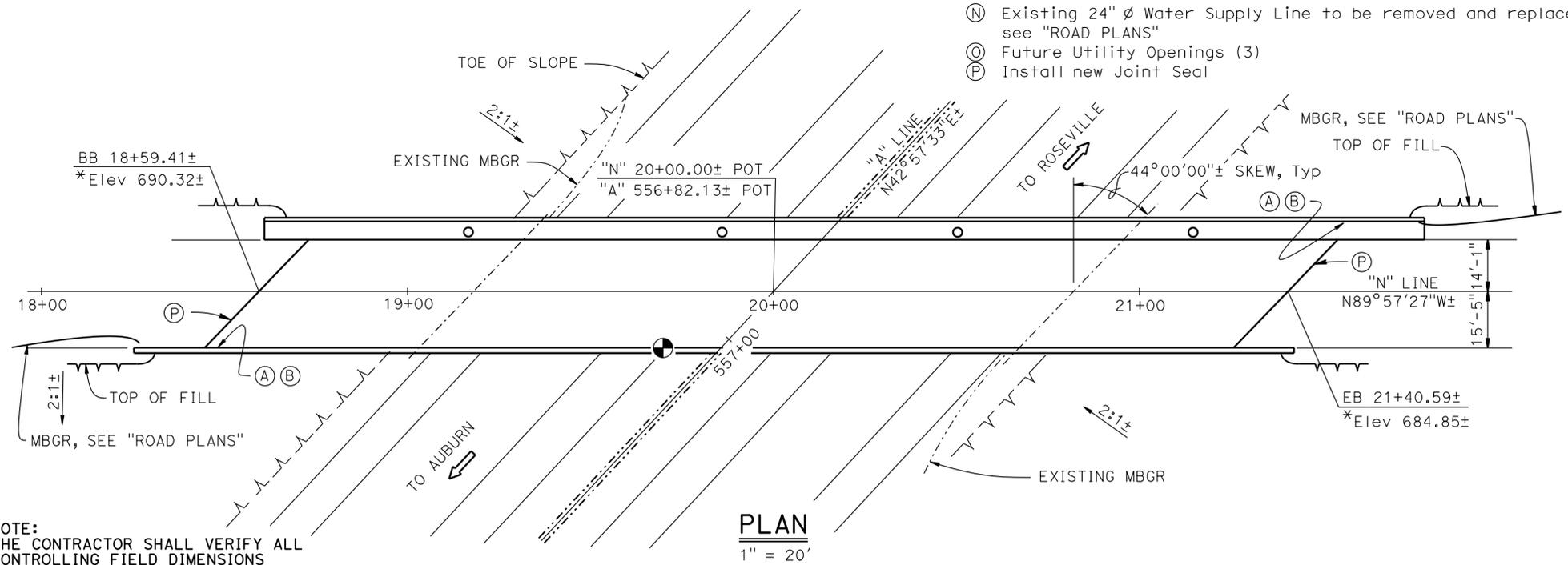
- LEGEND:**
- * The BB and EB elevations shown are after bridge raising, plus 3/4" Polyester Concrete Overlay
 - Indicates location of adjust existing Manholes
 - ▨ Indicates bridge removal (portion)
 - ▩ Indicates concrete replacement
 - ⋯ Indicates existing structure
 - Indicates new construction
 - ⊙ Indicates point of minimum vertical clearance

- NOTES:**
- Stage 1 Construction: Detour traffic, raise bridge, construct columns, abutment backwall, wingwalls and abutment pedestal
- (A) Paint "Bridge No. 19-0101"
 - (B) Paint "GILARDI ROAD OVERCROSSING"
 - (C) Remove portion of bridge & raise bridge
 - (D) Existing Barrier to be removed, see "ROAD PLANS"
 - (E) Remove existing Barrier Railing
 - (F) Concrete Barrier Type 732 (Mod) w/Aesthetic Treatment
 - (G) Concrete Barrier Type 26 (Mod) w/Aesthetic Treatment
 - (H) Chain Link Railing Type 6
 - (I) Remove part of existing expansion bearing assembly & pedestal
 - (J) Rebuild the existing pedestal & install new Elastomeric Bearing Pad
 - (K) Remove portion of existing wingwall & construct wingwall to match new bridge height
 - (L) Place 3/4" Polyester Concrete Overlay
 - (M) Temporary Railing (Type K), see "ROAD PLANS"
 - (N) Existing 24" Ø Water Supply Line to be removed and replaced, see "ROAD PLANS"
 - (O) Future Utility Openings (3)
 - (P) Install new Joint Seal



TYPICAL SECTION
1" = 5'
QUANTITIES

ADJUST MANHOLE	4	EA
PREPARE CONCRETE BRIDGE DECK SURFACE	8,300	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	622	CF
PLACE POLYESTER CONCRETE OVERLAY	8,300	SQFT
ACCESS OPENING, SOFFIT	2	EA
BRIDGE REMOVAL (PORTION), LOCATION E	LUMP	SUM
STRUCTURE EXCAVATION (BRIDGE)	8	CY
STRUCTURE BACKFILL (BRIDGE)	8	CY
RAISE BRIDGE (LOCATION E)	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	74	CY
DRILL AND BOND DOWEL	235	LF
JOINT SEAL (MR 1")	103	LF
BAR REINFORCING STEEL (BRIDGE)	13,150	LB
CHAIN LINK RAILING (TYPE 6)	317	LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	317	LF
CONCRETE BARRIER (TYPE 732 MODIFIED)	317	LF



PLAN
1" = 20'

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

NOTE: For "GENERAL NOTES" and "INDEX TO PLANS", see "INDEX TO PLANS NO. 1" sheet

DESIGN ENGINEER Joseph E Downing	DESIGN	BY Eric G Burgeson	CHECKED Art V Herrera	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	GILARDI ROAD OVERCROSSING (RAISE)
	DETAILS	BY N Gwynn/ M J Chlubna	CHECKED Art V Herrera	LAYOUT	BY Eric G Burgeson			CHECKED Art V Herrera	POST MILE
	QUANTITIES	BY Ali Asnaashari	CHECKED Michael K Bergman	SPECIFICATIONS	BY Dave Klein	CHECKED Dave Klein	12.3		

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 UNIT: 3578 PROJECT NUMBER & PHASE: 03000004731 CONTRACT NO.: 03-3E1001
 DISREGARD PRINTS BEARING EARLIER REVISION DATES: 8-11-09 6-20-13 10-18-13
 SHEET 1 OF 18

GENERAL NOTES

EXISTING STRUCTURE

SPECIFICATIONS:

DESIGN:

AASHTO dated 1953 with subsequent revisions, and Bridge Department Supplement dated 1953

CONSTRUCTION:

Standard Specifications, Division of Highways, dated August 1954 and the Special Provisions

LIVE LOADING:

H20-S16-44

UNIT STRESSES:

Reinforced Concrete:

fs = 20,000 psi
 fc = 1,200 psi (Except as noted)
 fc = 1,000 psi (Roadway slab on girders)
 n = 10

Structural Steel:

fs = 18,000 psi

FOOTING PRESSURE:

4 tons per square foot (+sf)

PILE LOADING:

45 tons Type: Concrete

NEW CONSTRUCTION

DESIGN:

Bridge Design Specifications-April 2000 (LFD)
 (1996 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD:

Include 9 psf for 3/4" polyester concrete overlay.
 No future additional deck overlay allowed

LIVE LOADING:

HS20-44 Permit load not considered

SEISMIC DESIGN:

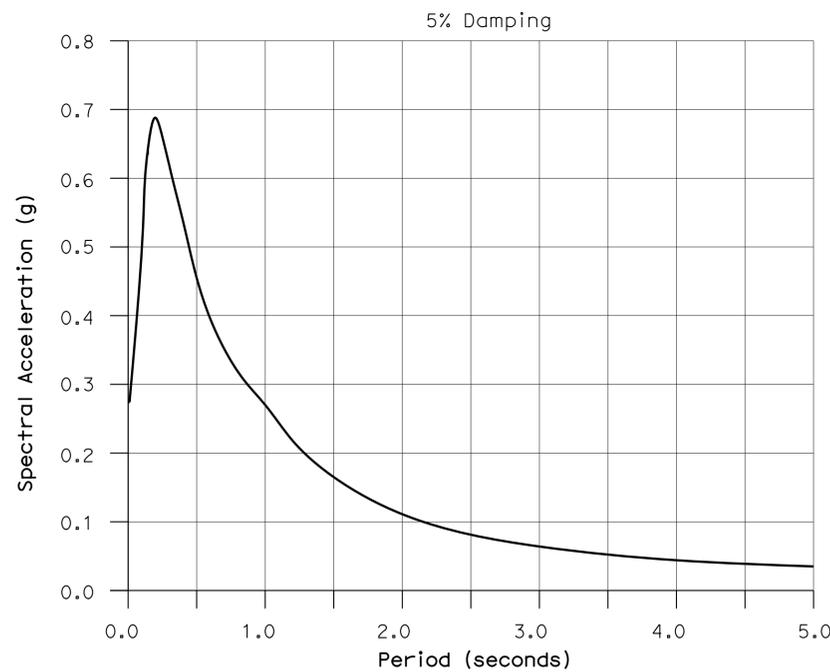
See "SITE SPECIFIC ARS CURVE"

REINFORCED CONCRETE:

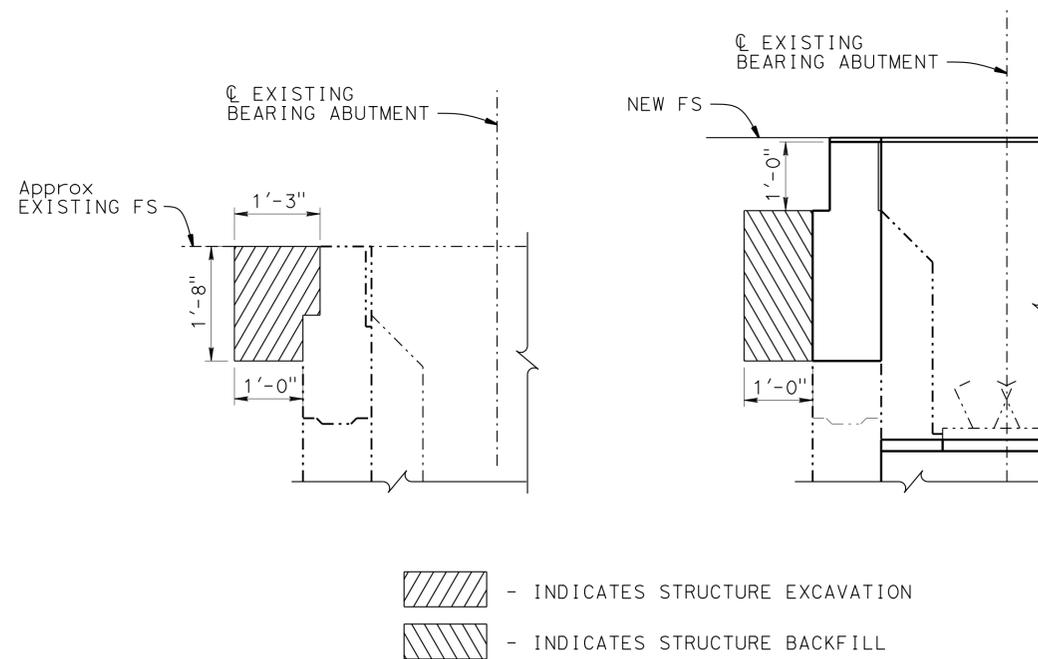
fy = 60 ksi
 fc = 3600 psi
 n = 9

FOOTING ALLOWABLE PRESSURE:

4 tons per square foot (+sf) at all locations



SITE SPECIFIC ARS CURVE
 NO SCALE



NOTE:
 For Wingwall backfill limits, see "ROAD PLANS"

LIMITS OF EXCAVATION AND BACKFILL
 NO SCALE

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	8.1/37.8	421	437

10-22-12
 REGISTERED CIVIL ENGINEER DATE

6-24-13
 PLANS APPROVAL DATE

ALI ASNAASHARI
 No. 36092
 Exp. 6-30-14
 CIVIL
 STATE OF CALIFORNIA

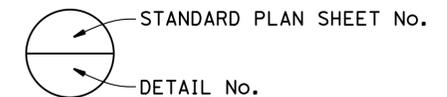
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS NO. 1
3	INDEX TO PLANS NO. 2
4	ABUTMENT DETAILS NO. 1
5	ABUTMENT DETAILS NO. 2
6	ABUTMENT DETAILS NO. 3
7	ABUTMENT DETAILS NO. 4
8	ABUTMENT DETAILS NO. 5
9	BENT DETAILS
10	TYPICAL SECTION NO. 1
11	TYPICAL SECTION NO. 2
12	AESTHETIC DETAILS NO. 1
13	AESTHETIC DETAILS NO. 2
14	CONCRETE REMOVAL DETAILS NO. 1
15	CONCRETE REMOVAL DETAILS NO. 2
16	CONCRETE REMOVAL DETAILS NO. 3
17	CHAIN LINK RAILING TYPE 6
18	WATER LINE DETAILS

STANDARD PLANS Dated 2010

- A10A ABBREVIATIONS (SHEET 1 OF 2)
- A10B ABBREVIATIONS (SHEET 2 OF 2)
- A10C LINES AND SYMBOLS (SHEET 1 OF 3)
- A10D LINES AND SYMBOLS (SHEET 2 OF 3)
- A10E LINES AND SYMBOLS (SHEET 3 OF 3)
- B6-21 JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
- B11-54 CONCRETE BARRIER TYPE 26
- B11-55 CONCRETE BARRIER TYPE 732



STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Eric G Burgeson	CHECKED Art V Herrera	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	GILARDI ROAD OVERCROSSING (RAISE) INDEX TO PLANS NO. 1		
	DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera			19-0101			
	QUANTITIES	BY Ali Asnaashari	CHECKED Michael K Bergman			POST MILE 12.3			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					UNIT: 3578 PROJECT NUMBER & PHASE: 03000004731	CONTRACT NO.: 03-3E1001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 10-2-11 7-19-12 10-18-12	SHEET 2 OF 18

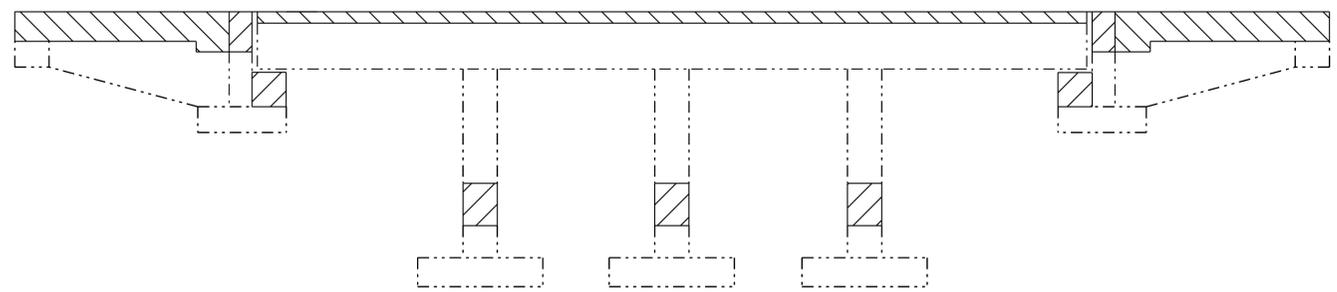
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plq	80	8.1/37.8	422	437

Ali Asnaashari 10-22-12
REGISTERED CIVIL ENGINEER DATE

6-24-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ALI ASNAASHARI
No. 36092
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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STRUCTURAL CONCRETE, BRIDGE
 STRUCTURAL CONCRETE, BRIDGE (3,600 psi PRIOR TO TEMPORARY SUPPORT RELEASE)

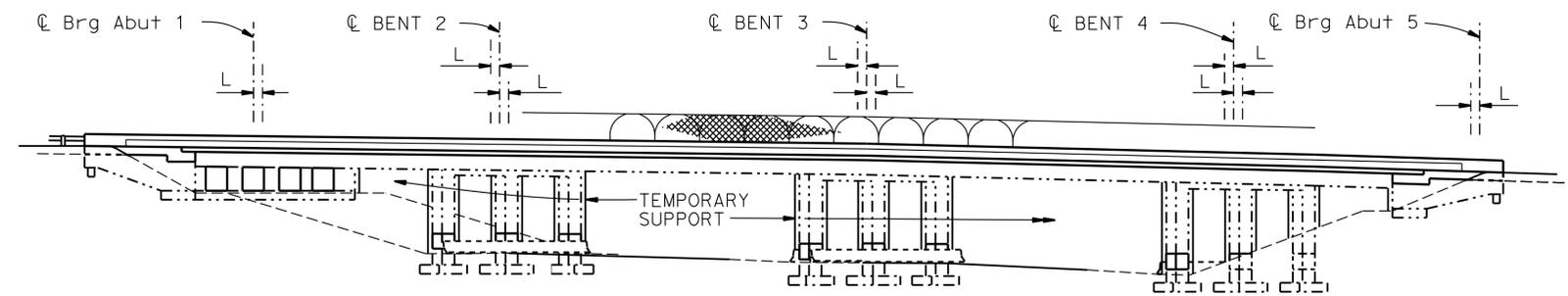
CONCRETE STRENGTH AND TYPE LIMITS
NO SCALE

TEMPORARY SUPPORT LOADING

Required capacity of Temporary support

LOCATION	DEAD LOAD
Abutment 1	246 kips
Bent 2	996 kips
Bent 3	1095 kips
Bent 4	996 kips
Abutment 5	246 kips

Temporary support loads do not include loads the Contractor places on the bridge



NOTE:
Maximum jack location eccentricity on Bent Caps or at Abutments
L = 6"

SUPPORT LOCATION
NO SCALE

NOTE:
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DESIGN	BY Eric G Burgeson	CHECKED Art V Herrera
DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera
QUANTITIES	BY Ali Asnaashari	CHECKED Michael K Bergman

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

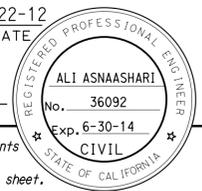
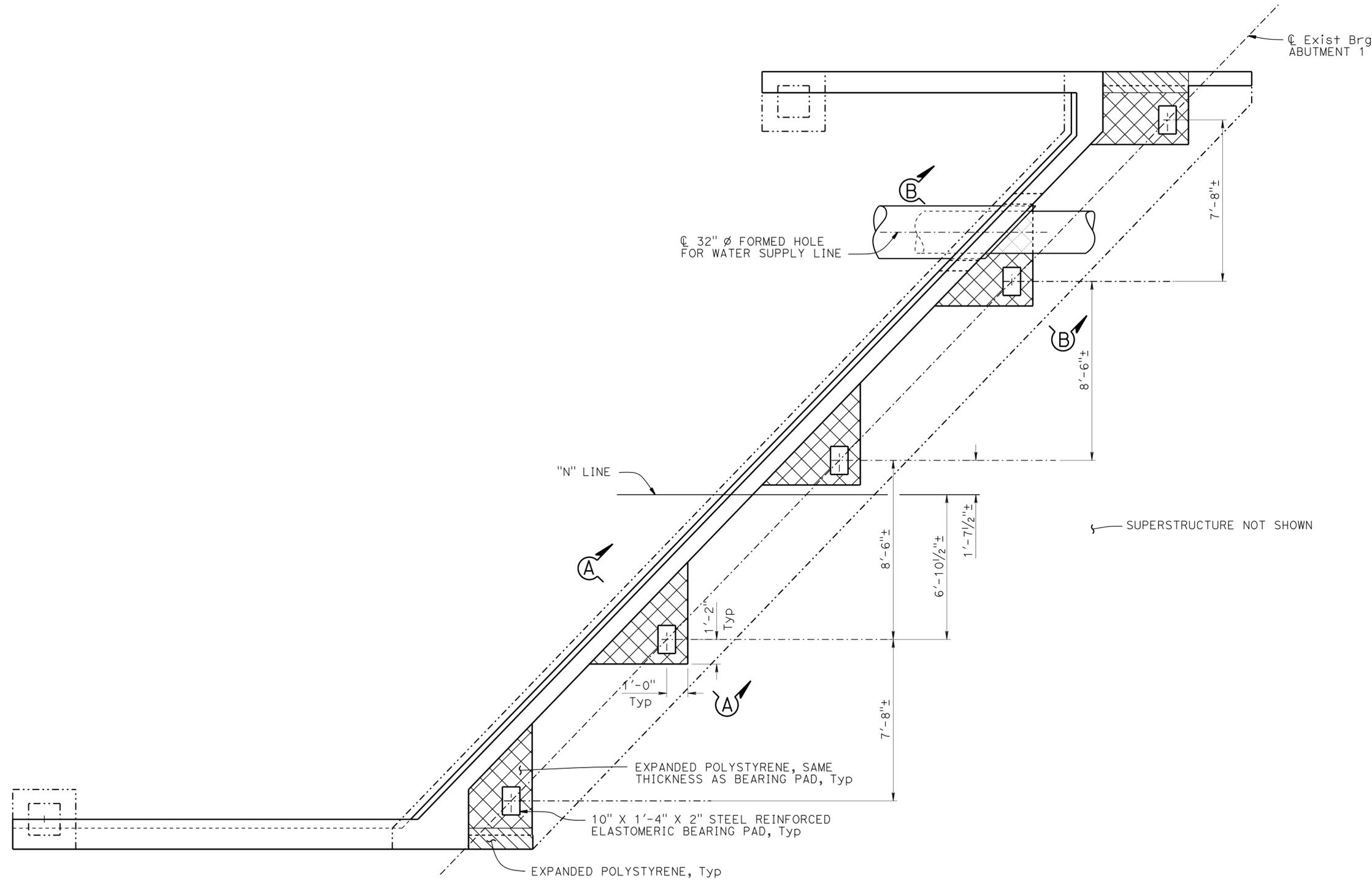
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 3

BRIDGE NO.	19-0101
POST MILE	12.3

GILARDI ROAD OVERCROSSING (RAISE)
INDEX TO PLANS NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plā	80	8.1/37.8	423	437

 10-22-12
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE
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PLAN
 $\frac{3}{8}'' = 1' - 0''$

NOTE:
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- NOTES:
1. New Abutment Pedestal dimensions and Wingwall length matches existing dimensions
 2. For dimensions not shown, see "CONCRETE REMOVAL DETAILS NO. 1" sheet
 3. For "SECTION A - A" and "SECTION B - B" see "ABUTMENT DETAILS NO. 2" sheet
 4. Abutment 1 shown, Abutment 5 similar

DESIGN	BY Eric G Burgeson	CHECKED Art V Herrera
DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera
QUANTITIES	BY Ali Asnaashari	CHECKED Michael K Bergman

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 3

BRIDGE NO.	19-0101
POST MILE	12.3

GILARDI ROAD OVERCROSSING (RAISE)
ABUTMENT DETAILS NO. 1



REVISION DATES	SHEET	OF
10-28-11 1-3-12	4	18

USERNAME => 6124486 DATE PLOTTED => 28-JUN-2013 TIME PLOTTED => 13:22

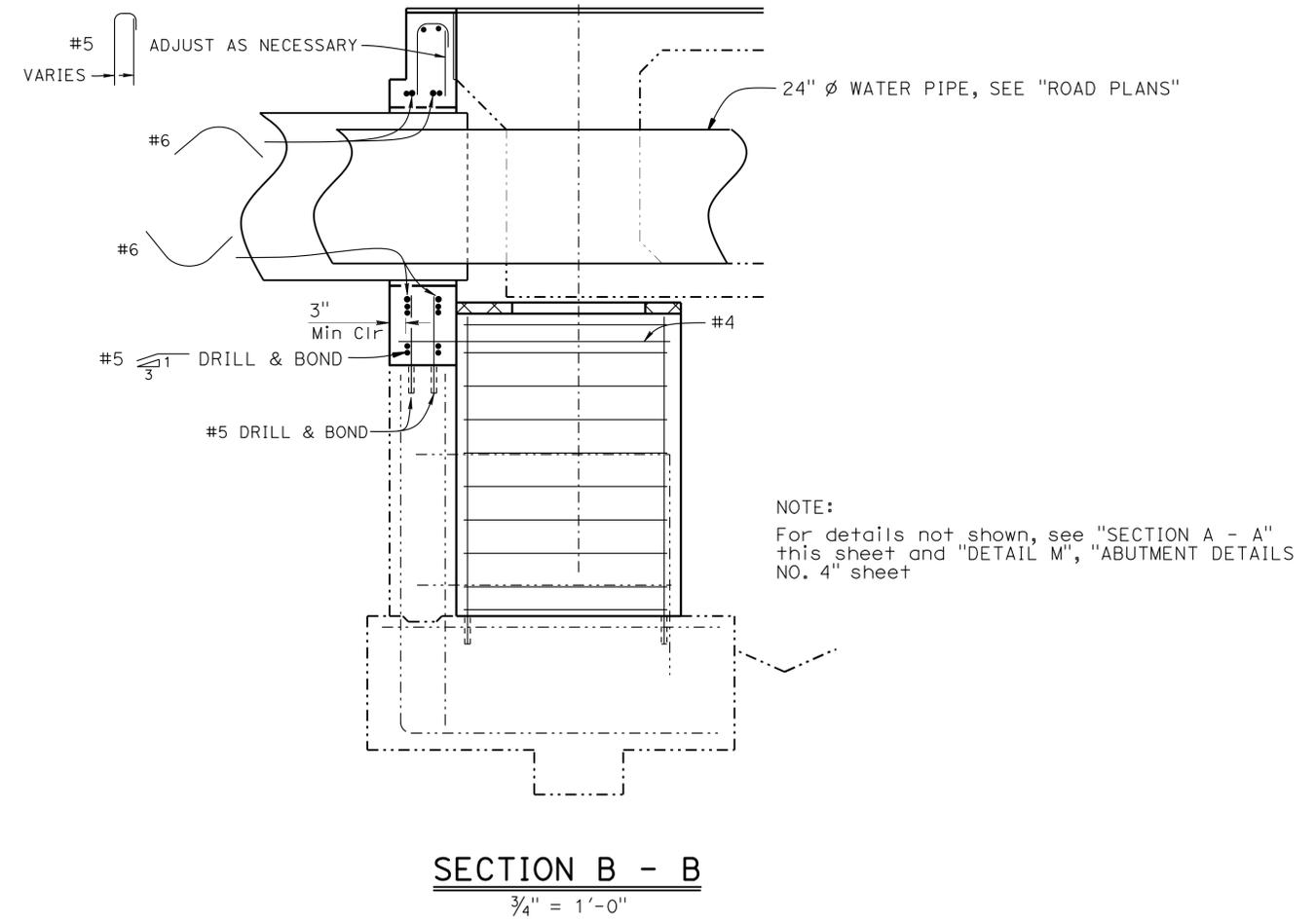
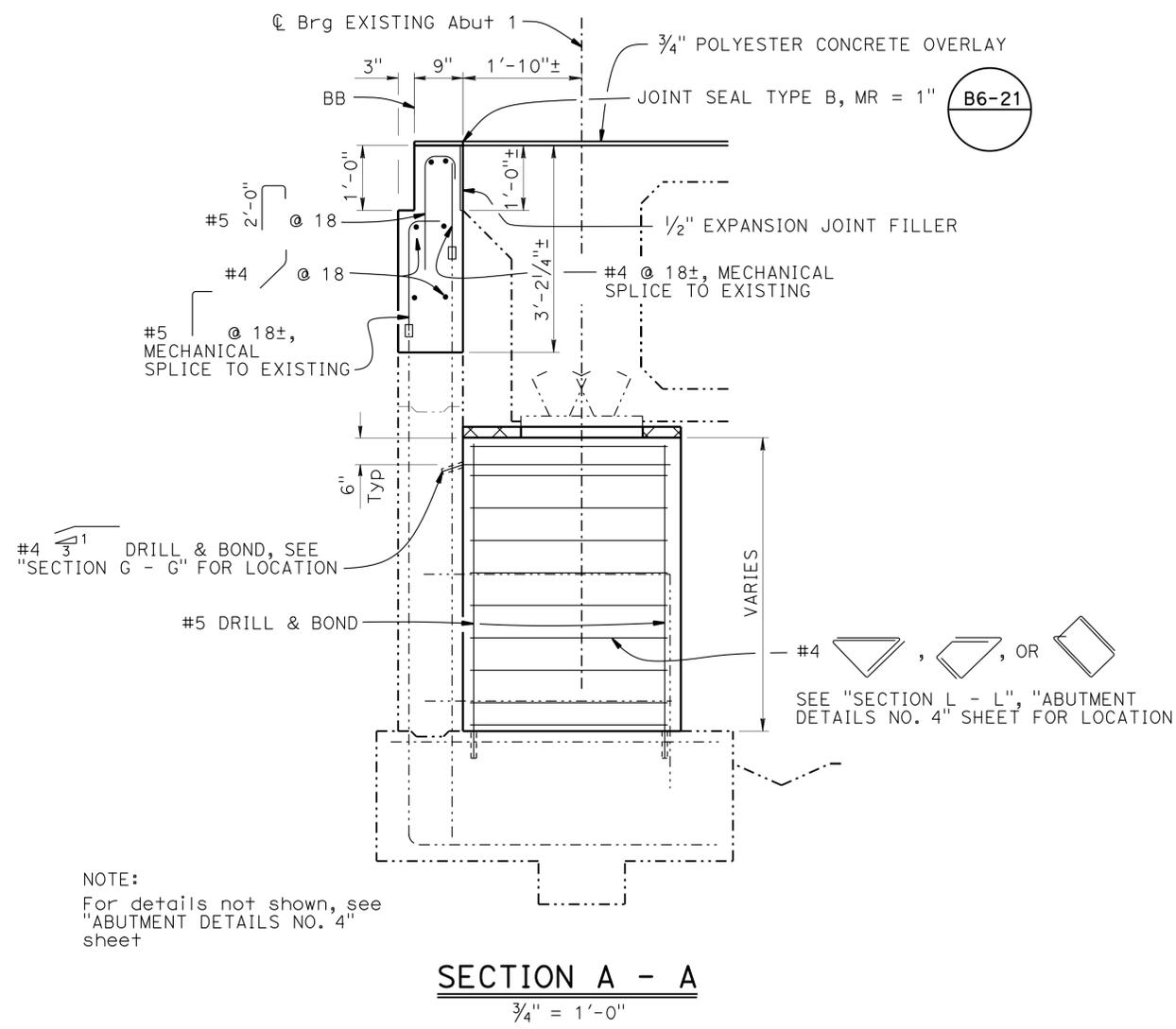
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plg	80	8.1/37.8	424	437

Ali Asnaashari 10-22-12
REGISTERED CIVIL ENGINEER DATE

6-24-13
PLANS APPROVAL DATE

ALI ASNAASHARI
No. 36092
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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NOTE:
For details not shown, see "ABUTMENT DETAILS NO. 4" sheet

NOTE:
For details not shown, see "SECTION A - A" this sheet and "DETAIL M", "ABUTMENT DETAILS NO. 4" sheet

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

- NOTES:
1. Abutment 1 shown, Abutment 5 similar except as noted
 2. For details not shown, see "CONCRETE REMOVAL DETAILS NO. 1" sheet

DESIGN	BY Eric G Burgeson	CHECKED Art V Herrera
DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera
QUANTITIES	BY Ali Asnaashari	CHECKED Michael K Bergman

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 3

BRIDGE NO.	19-0101
POST MILE	12.3

GILARDI ROAD OVERCROSSING (RAISE)
ABUTMENT DETAILS NO. 2

TIME PLOTTED => 13:22
DATE PLOTTED => 28-JUN-2013
USER NAME => s124496

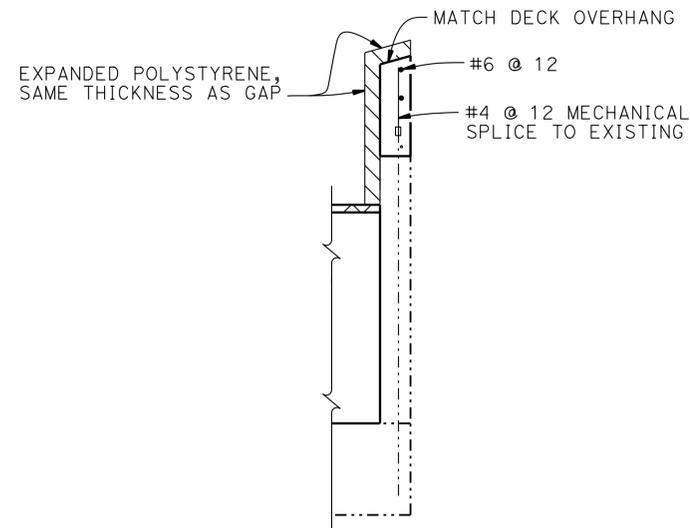
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	8.1/37.8	425	437

Ali Asnaashari 10-22-12
REGISTERED CIVIL ENGINEER DATE

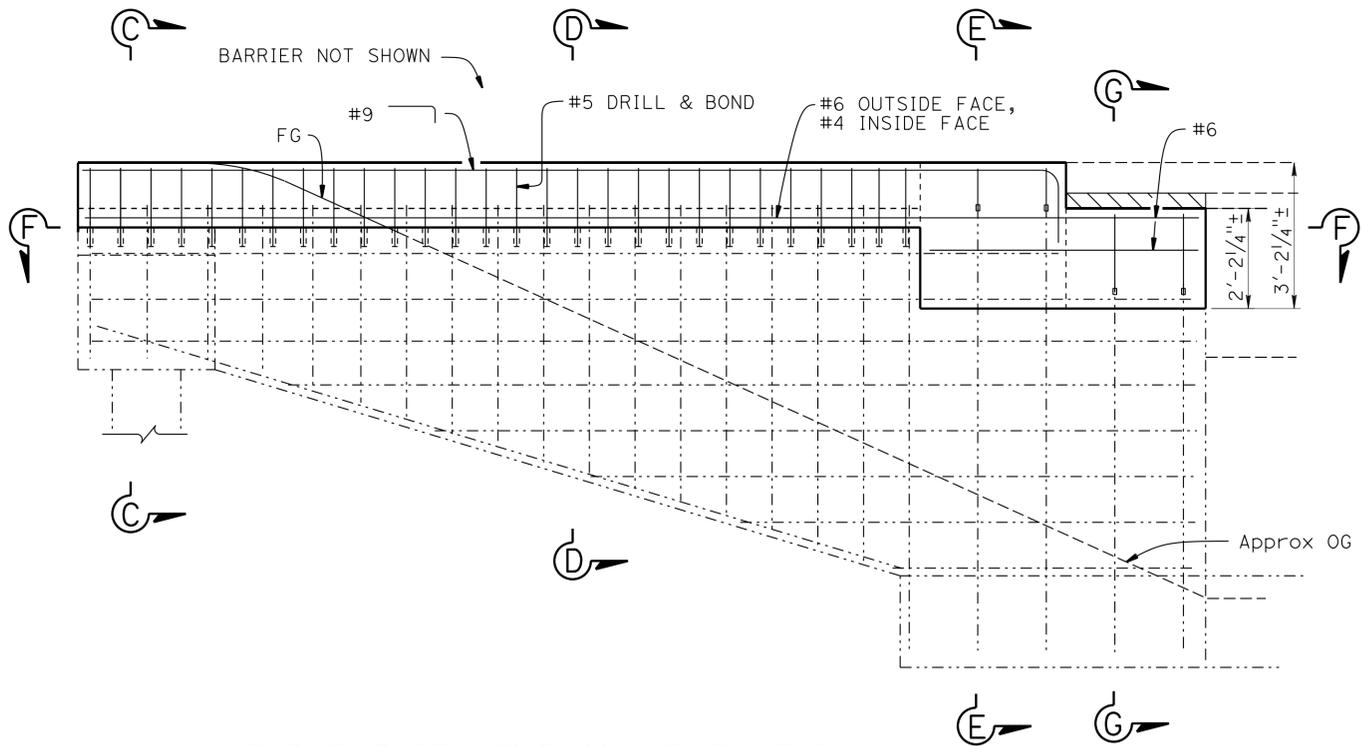
6-24-13
PLANS APPROVAL DATE

ALI ASNAASHARI
No. 36092
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

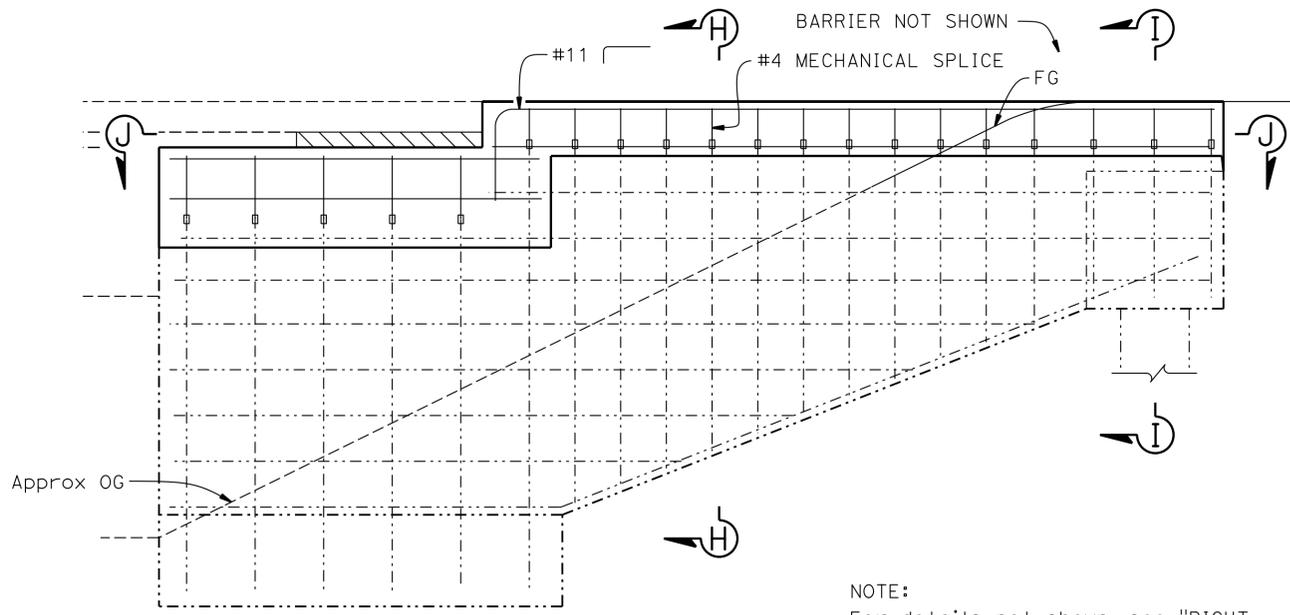
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SECTION G - G
1/2" = 1'-0"



RIGHT SIDE WINGWALL ELEVATION
1/2" = 1'-0"



LEFT SIDE WINGWALL ELEVATION
1/2" = 1'-0"

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

- NOTES:**
1. For "SECTION C - C", "SECTION D - D", "SECTION E - E", "SECTION F - F", "SECTION H - H", "SECTION I - I" and "SECTION J - J", see "ABUTMENT DETAILS NO. 5" sheet
 2. For details not shown, see "CONCRETE REMOVAL DETAILS NO. 2" sheet
 3. Abutment 1 shown, Abutment 5 similar

NOTE:
For details not shown, see "RIGHT SIDE WINGWALL ELEVATION" sheet

DESIGN	BY Eric G Burgeson	CHECKED Art V Herrera
DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera
QUANTITIES	BY Ali Asnaashari	CHECKED Michael K Bergman

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 3

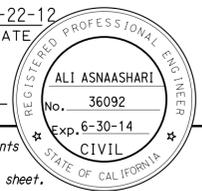
BRIDGE NO.	19-0101
POST MILE	12.3

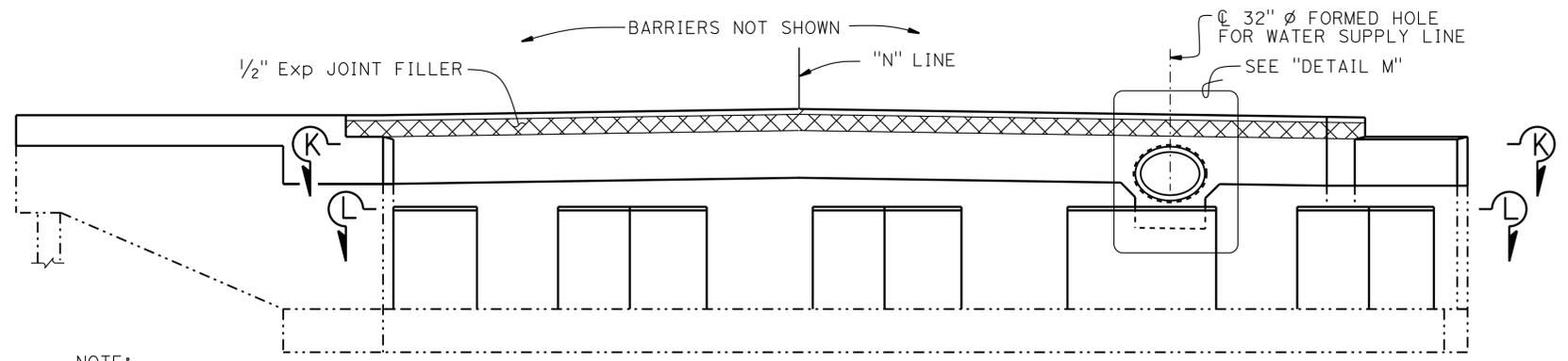
GILARDI ROAD OVERCROSSING (RAISE)
ABUTMENT DETAILS NO. 3



REVISION DATES	SHEET	OF
10-28-11 1-3-12	6	18

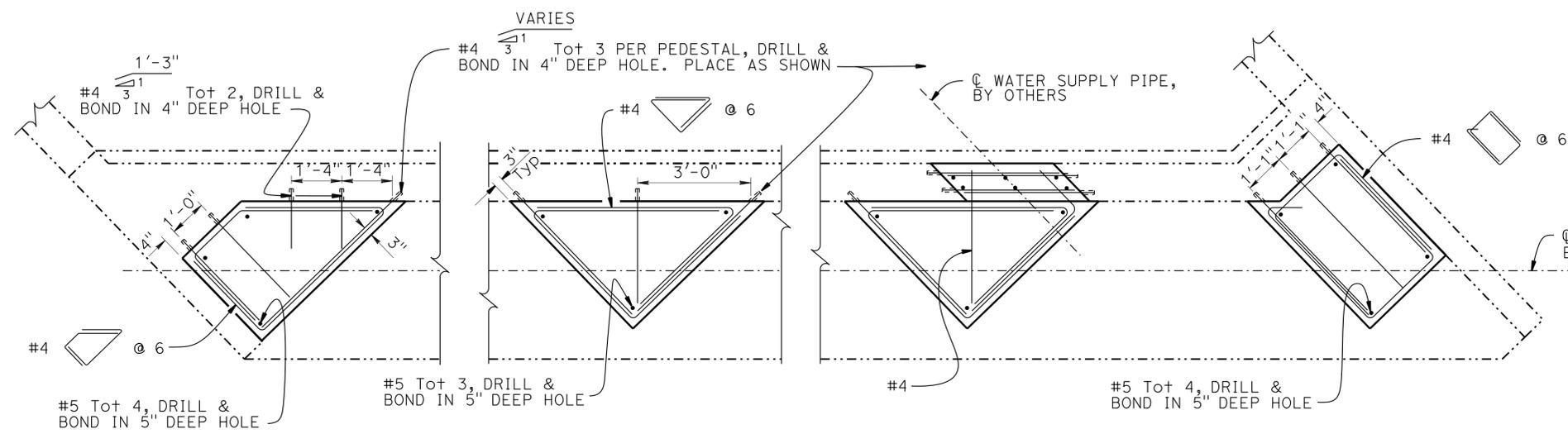
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DATE PLOTTED => 28-JUN-2013
USER NAME => s124496

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plca	80	8.1/37.8	426	437
 REGISTERED CIVIL ENGINEER			10-22-12	DATE	
6-24-13			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

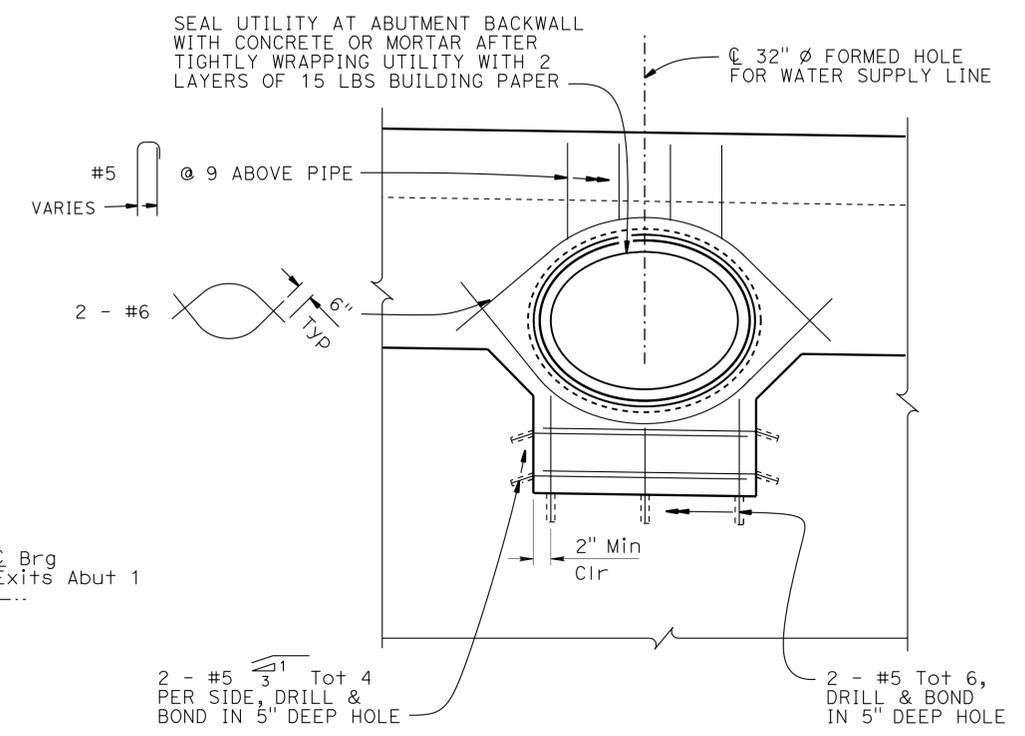


NOTE:
Superstructure not shown

ELEVATION
1/4" = 1'-0"

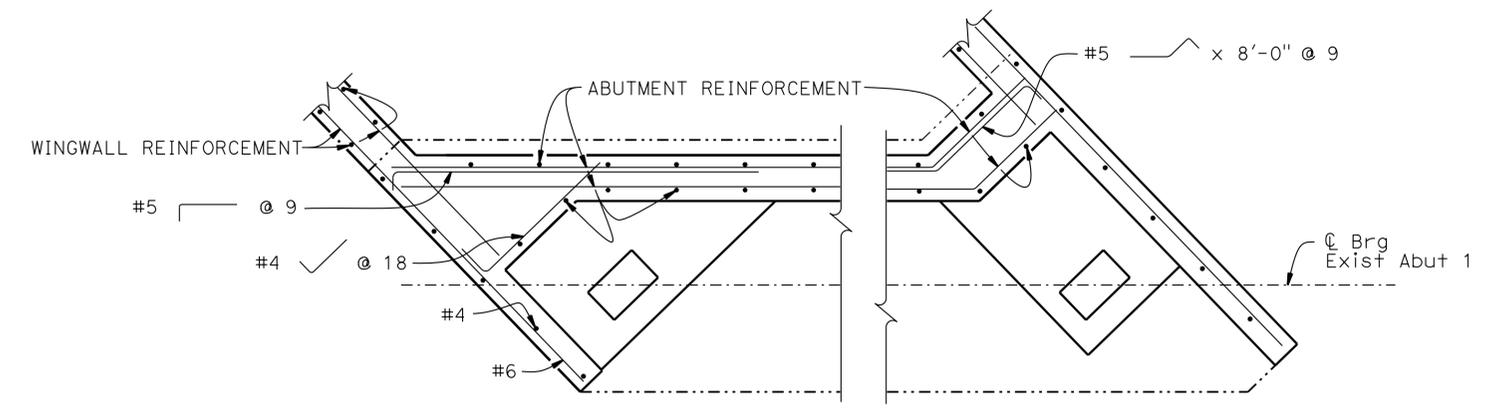


SECTION L - L
1/2" = 1'-0"



- NOTES:
- View taken at face of back wall, pedestal not shown
 - For details not shown, see "SECTION B - B", "ABUTMENT DETAILS NO. 2" and "SECTION F - F", "CONCRETE REMOVAL DETAILS NO. 1" sheets
 - All reinforcement not shown

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



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

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

NOTE:
Abutment 1 shown, Abutment 5 similar

DESIGN	BY Eric G Burgeson	CHECKED Art V Herrera
DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera
QUANTITIES	BY Ali Asnaashari	CHECKED Michael K Bergman

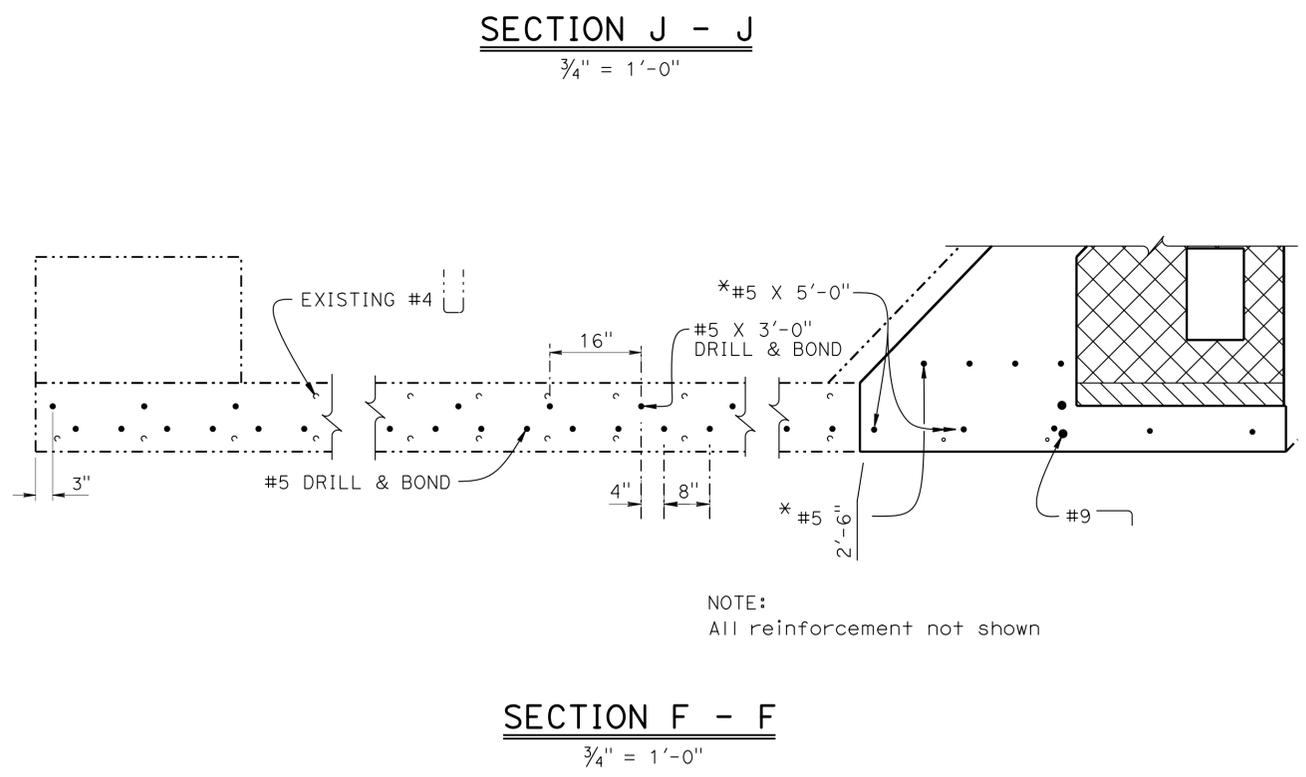
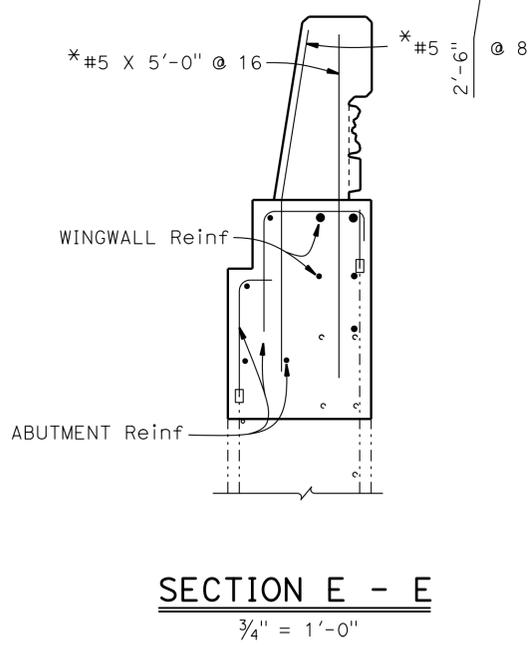
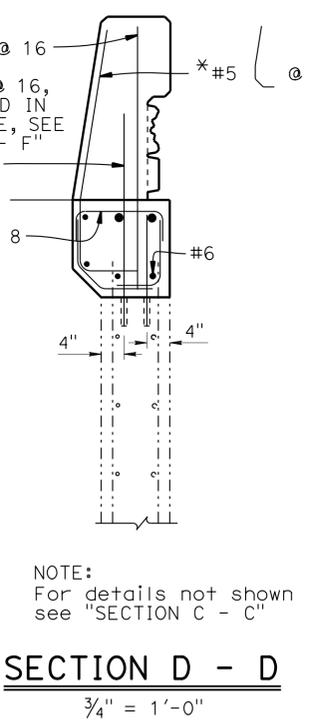
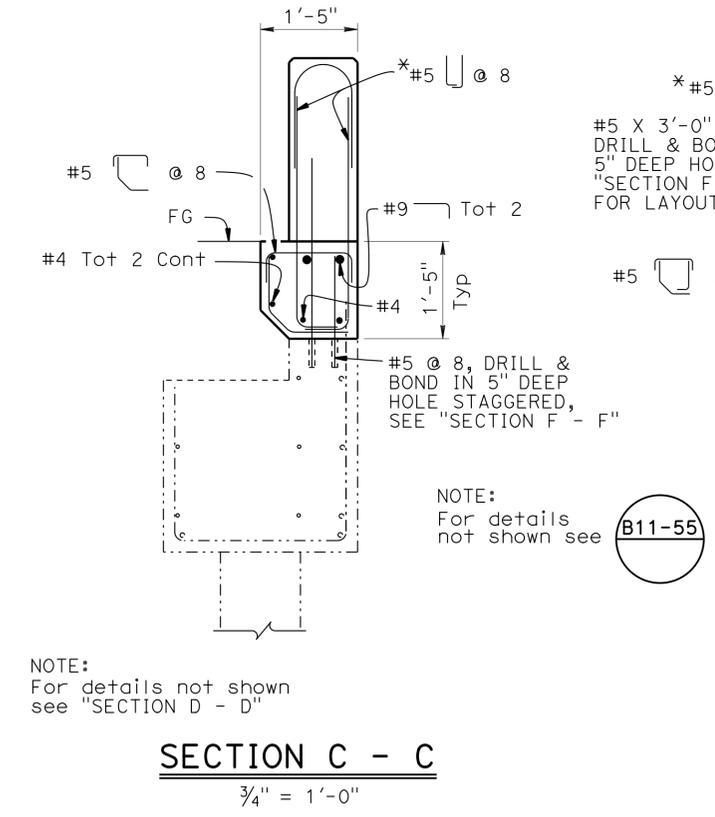
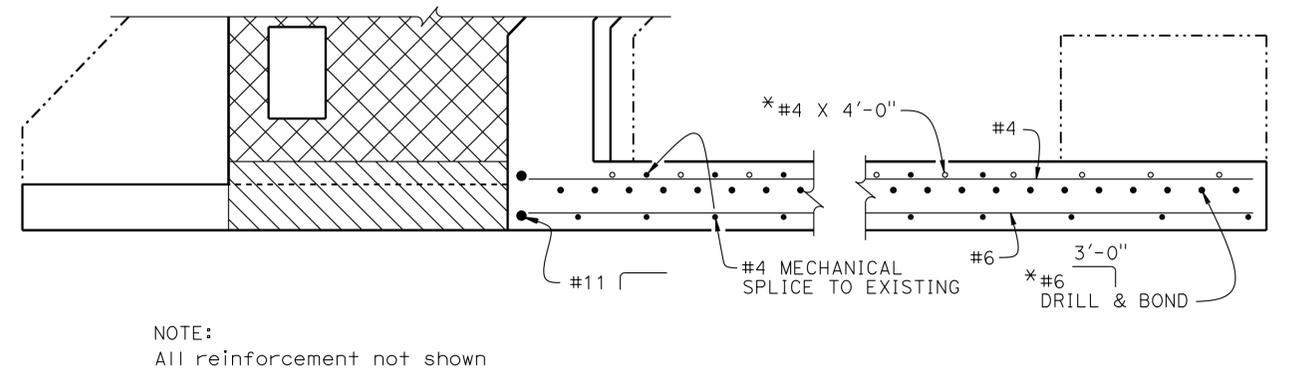
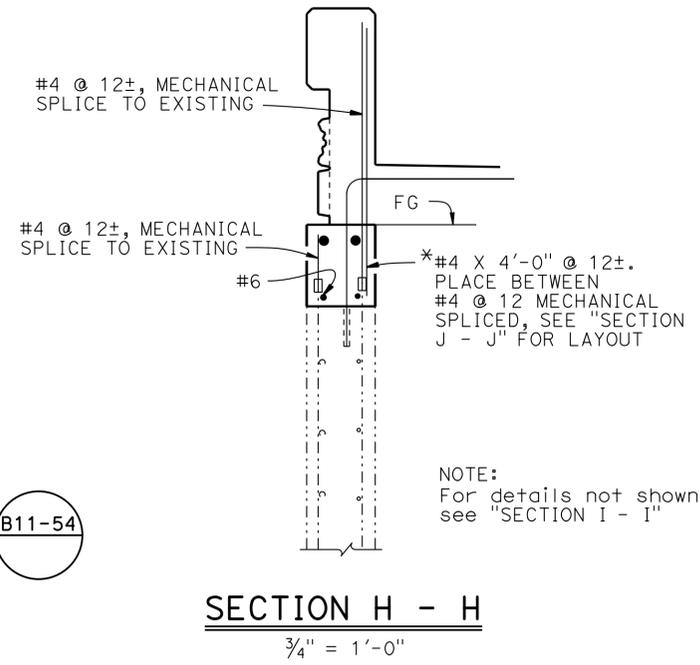
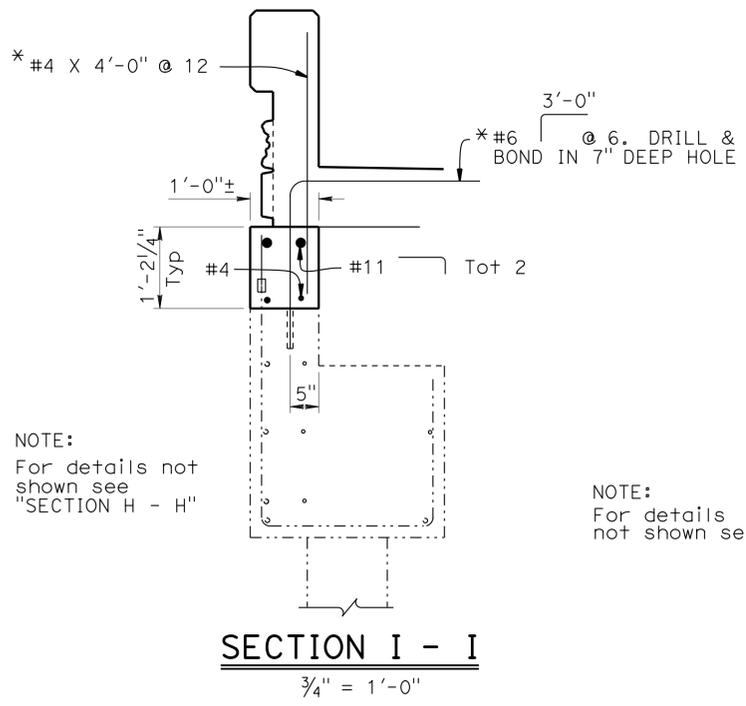
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 3

BRIDGE NO.	19-0101
POST MILE	12.3

GILARDI ROAD OVERCROSSING (RAISE)
ABUTMENT DETAILS NO. 4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	8.1/37.8	427	437
 REGISTERED CIVIL ENGINEER			10-22-12	DATE	
6-24-13			PLANS APPROVAL DATE		
REGISTERED PROFESSIONAL ENGINEER ALI ASNAASHARI No. 36092 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



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

- LEGEND:
* Barrier Reinforcement
- NOTES:
1. For location of "SECTION C - C", "SECTION D - D", "SECTION E - E", "SECTION F - F", "SECTION H - H", "SECTION I - I" and "SECTION J - J", see "ABUTMENT DETAILS NO. 3" sheet
2. For dimensions not shown, see "CONCRETE REMOVAL DETAILS NO. 2" sheet
3. Chain Link Railing not shown

DESIGN	BY Eric G Burgeson	CHECKED Art V Herrera
DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera
QUANTITIES	BY Ali Asnaashari	CHECKED Michael K Bergman

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 3

BRIDGE NO.	19-0101
POST MILE	12.3

GILARDI ROAD OVERCROSSING (RAISE)
ABUTMENT DETAILS NO. 5

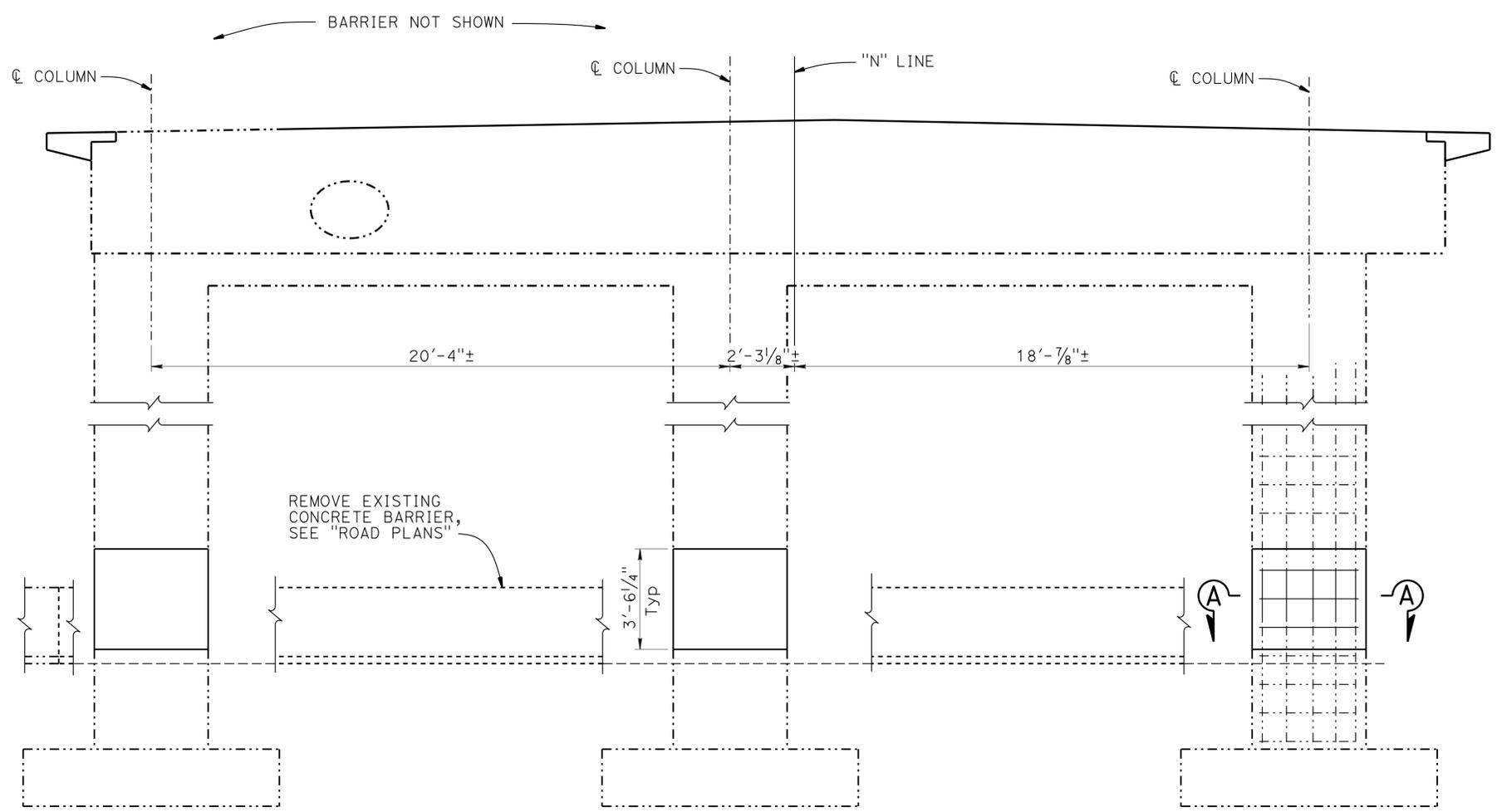
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plca	80	8.1/37.8	428	437

Ali Asnaashari 10-22-12
REGISTERED CIVIL ENGINEER DATE

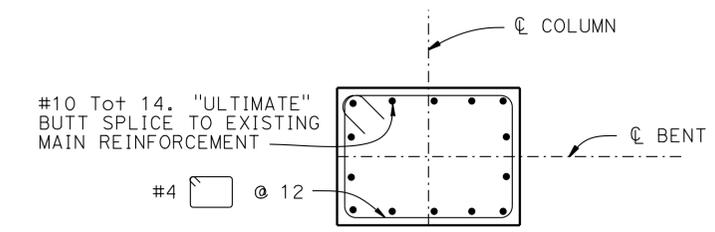
6-24-13
PLANS APPROVAL DATE

ALI ASNAASHARI
No. 36092
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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

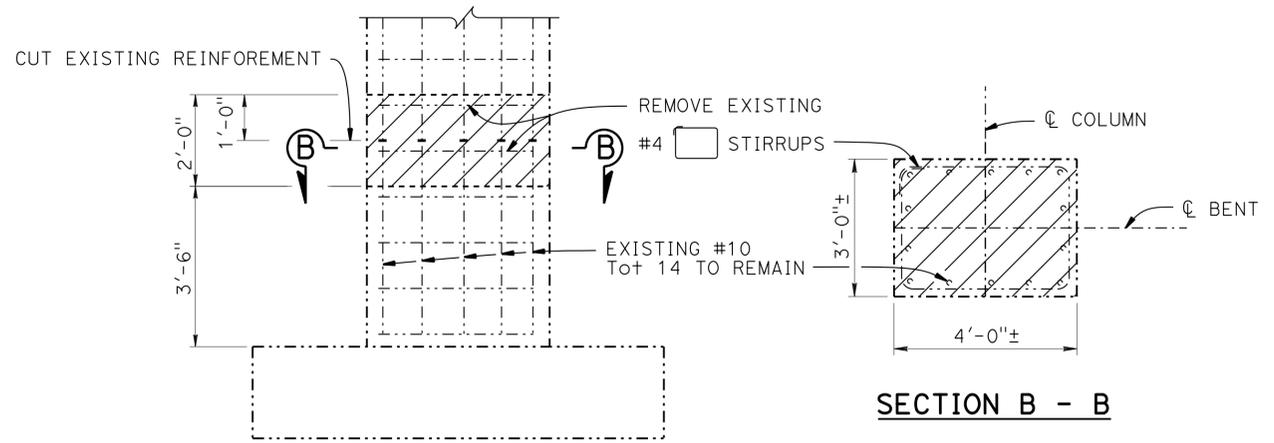


ELEVATION
 $\frac{3}{8}'' = 1'-0''$



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

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



PART ELEVATION

SECTION B - B

LEGEND:
 - Indicates bridge removal (portion)

NOTE:
Details are typical for all columns

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

CONCRETE REMOVAL AT COLUMNS

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

DESIGN	BY Eric G Burgeson	CHECKED Art V Herrera
DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera
QUANTITIES	BY Ali Asnaashari	CHECKED Michael K Bergman

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 3

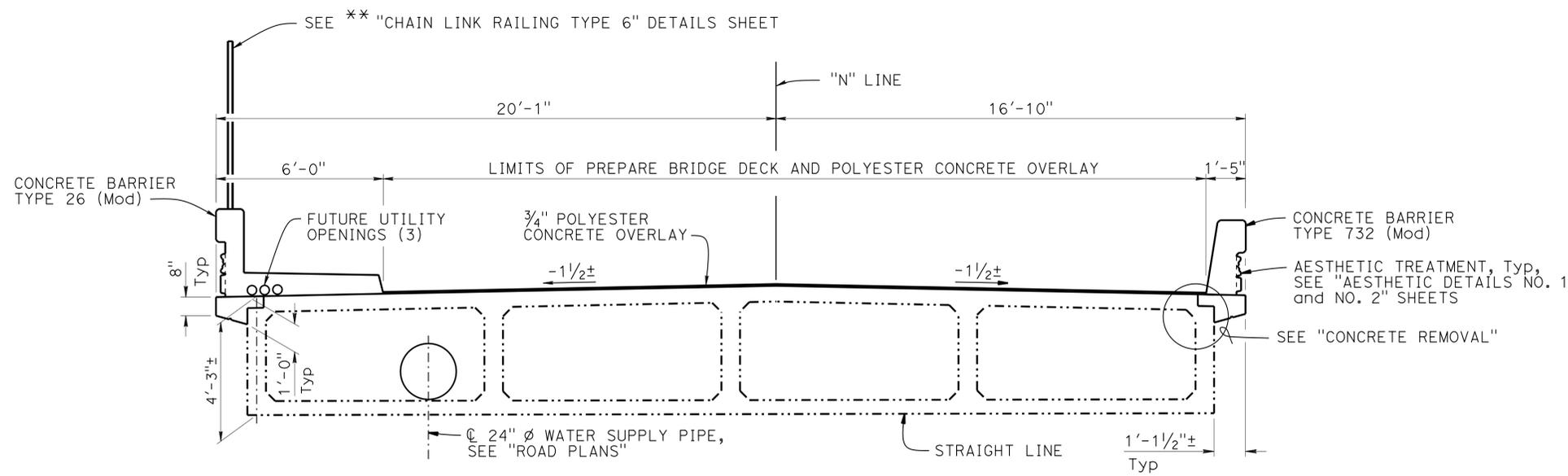
BRIDGE NO.	19-0101
POST MILE	12.3

GILARDI ROAD OVERCROSSING (RAISE)
BENT DETAILS

DATE PLOTTED => 13:23
28-JUN-2013
TIME PLOTTED =>

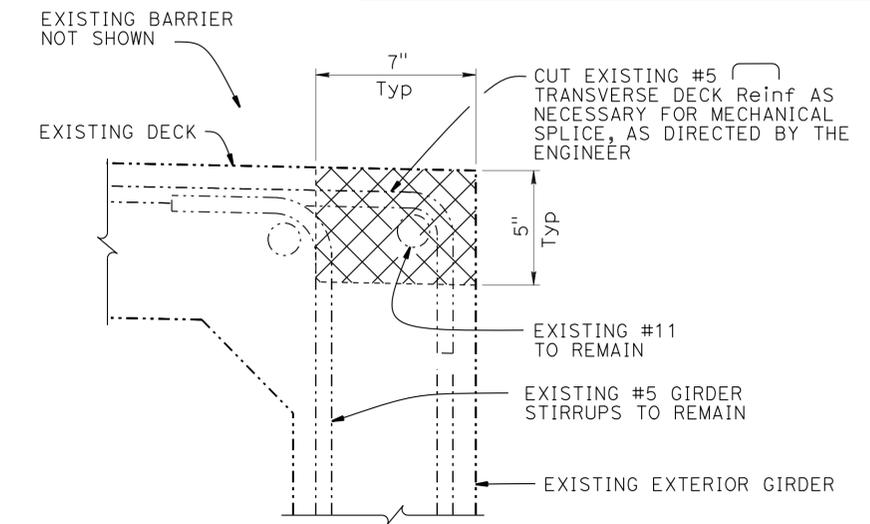
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	8.1/37.8	429	437

10-22-12
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE
 ALI ASNAASHARI
 No. 36092
 Exp. 6-30-14
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



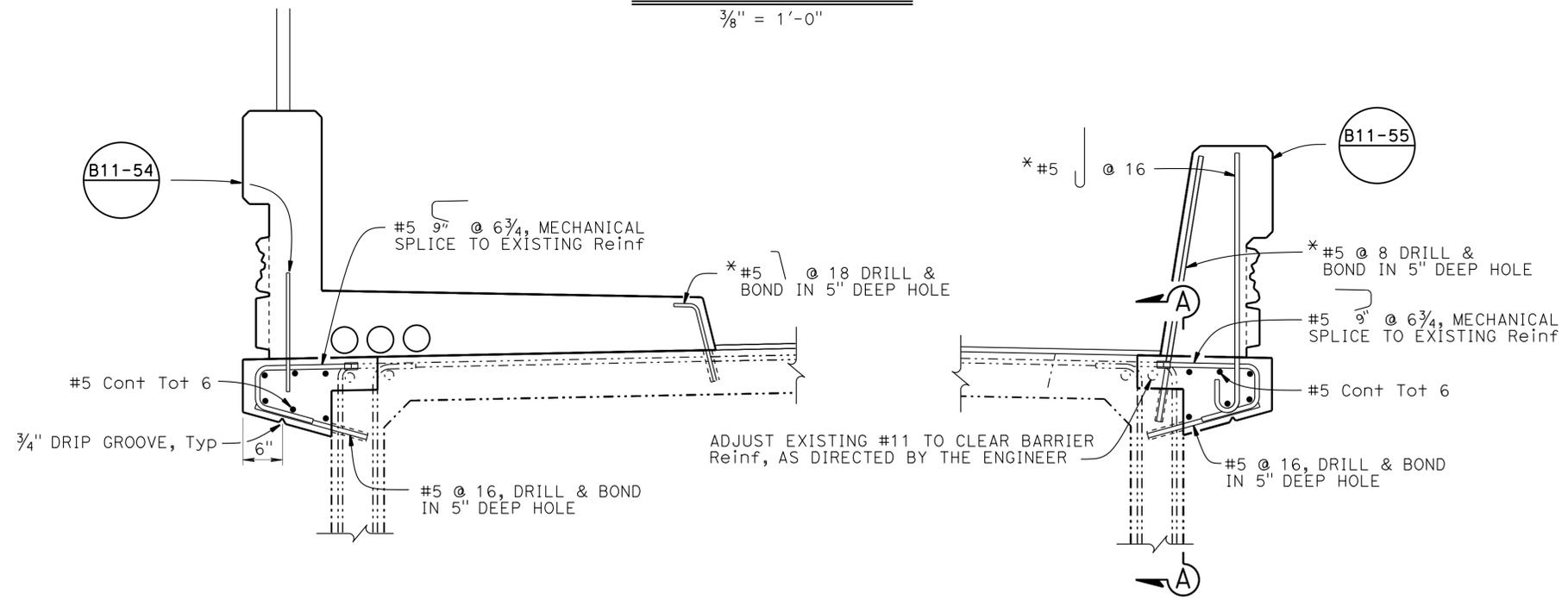
NOTE:
Existing deck openings at sidewalk to remain. Remove and adjust Manhole

TYPICAL SECTION
3/8" = 1'-0"



LEGEND:
 - Indicates concrete removal (portion), Low Impact Hammer
 NOTE:
 Right edge of deck shown, left edge of deck similar

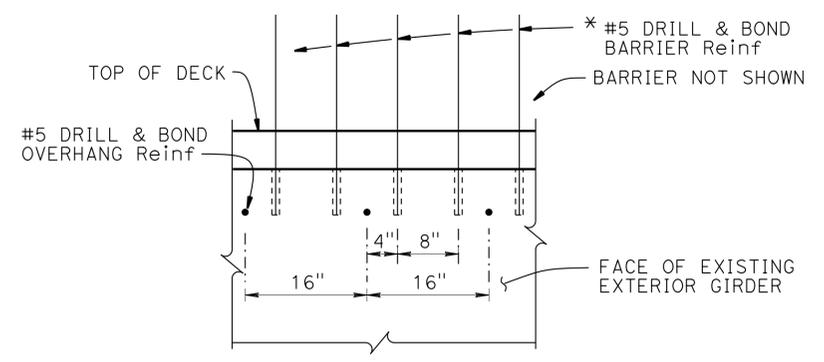
CONCRETE REMOVAL
3" = 1'-0"



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

LEGEND:
 *Barrier Reinforcement
 **Fence fabric to be black vinyl coated mesh

PART TYPICAL SECTION
1" = 1'-0"

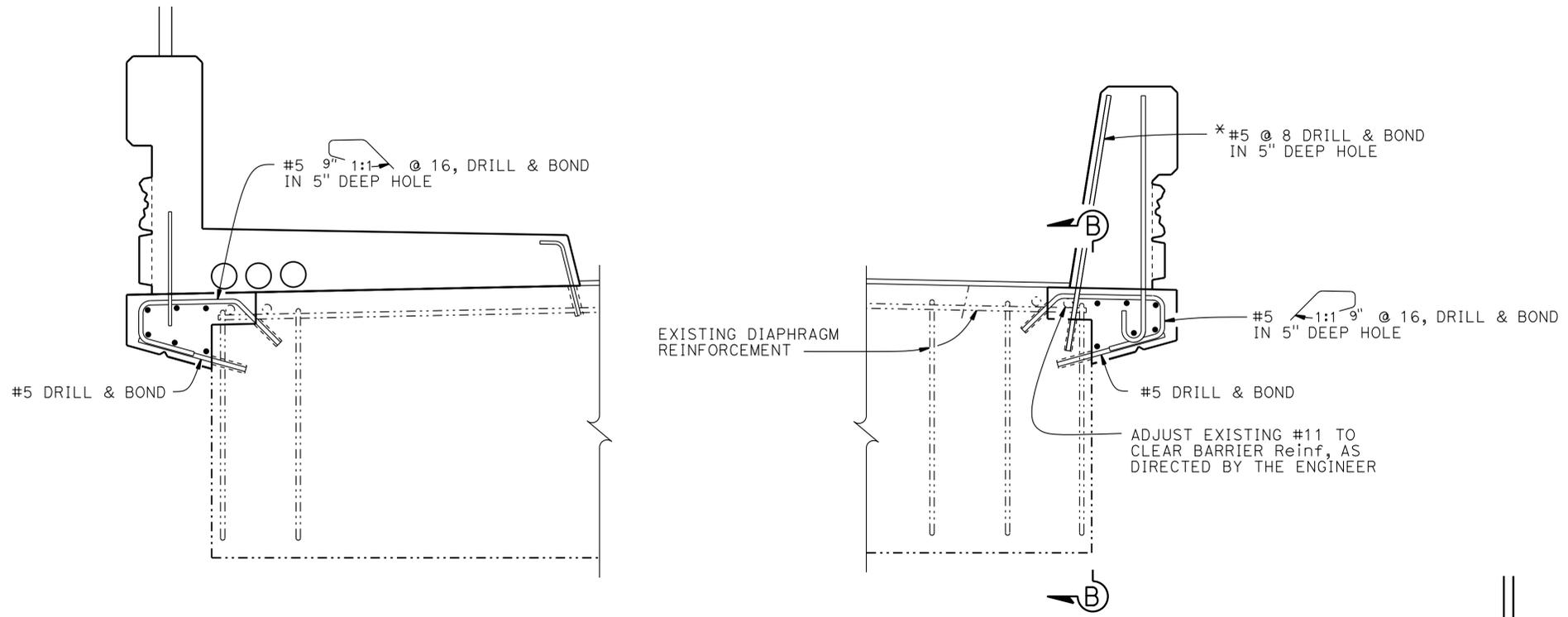
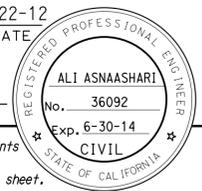


NOTE:
All reinf not shown

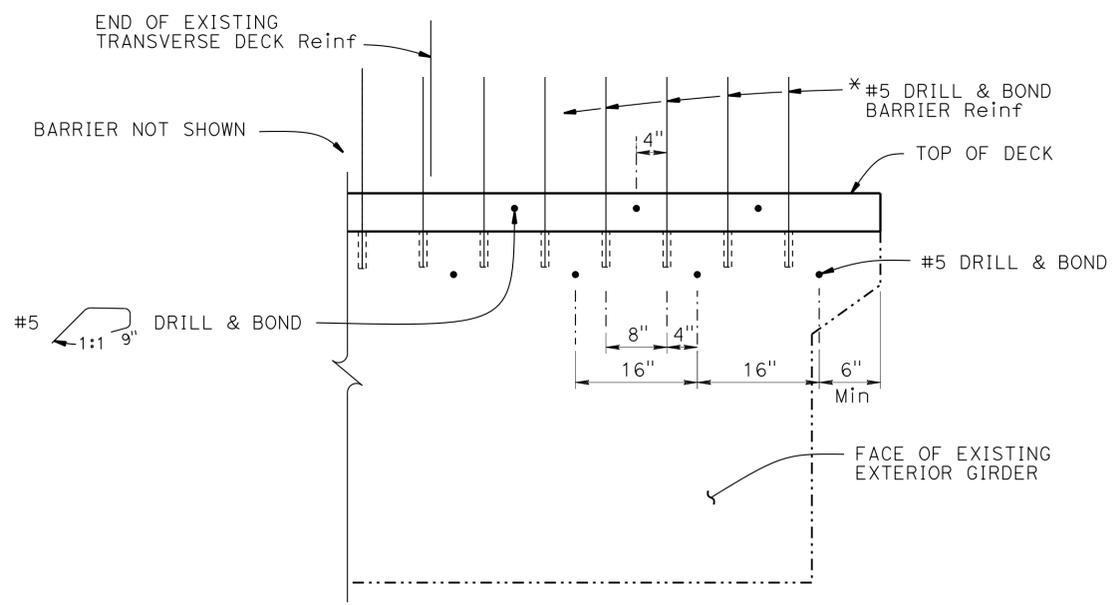
SECTION A - A
1" = 1'-0"

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Eric G Burgeson	CHECKED Art V Herrera	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	19-0101	GILARDI ROAD OVERCROSSING (RAISE) TYPICAL SECTION NO. 1
	DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera			POST MILE	12.3	
	QUANTITIES	BY Ali Asnaashari	CHECKED Michael K Bergman			UNIT: 3578 PROJECT NUMBER & PHASE: 03000004731	CONTRACT NO.: 03-3E1001	

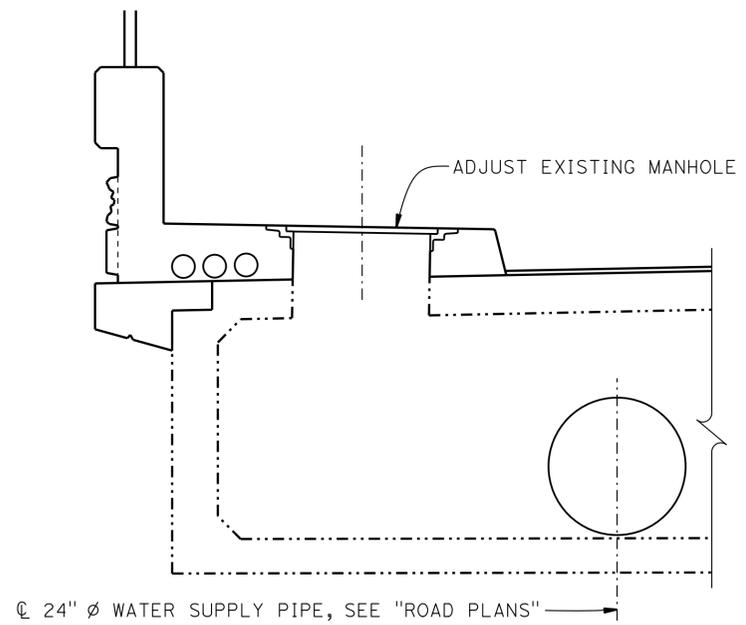
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	8.1/37.8	430	437
 REGISTERED CIVIL ENGINEER			10-22-12	DATE	
6-24-13			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



PART TYPICAL SECTION @ ABUTMENT DIAPHRAGM
1" = 1'-0"



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



PART TYPICAL SECTION @ MANHOLE
3/4" = 1'-0"

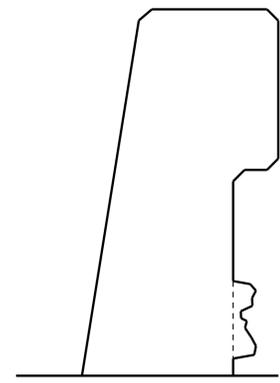
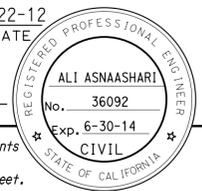
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

- LEGEND:
* Barrier Reinforcement
- NOTES:
1. For details not shown, see "TYPICAL SECTION NO. 1" sheet
2. All diaphragm reinforcement not shown

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Eric G Burgeson	CHECKED Art V Herrera	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	19-0101	GILARDI ROAD OVERCROSSING (RAISE)
	DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera			POST MILE		
	QUANTITIES	BY Ali Asnaashari	CHECKED Michael K Bergman	UNIT: 3578	PROJECT NUMBER & PHASE: 03000004731	CONTRACT NO.: 03-3E1001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3			11-2-11
								SHEET 11 OF 18

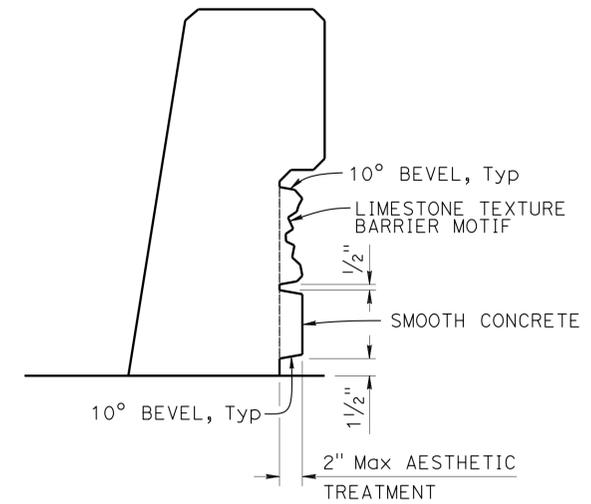
DATE PLOTTED => 13:23 TIME PLOTTED => 28-JUN-2013 USERNAME => s124496

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plq	80	8.1/37.8	431	437
			10-22-12	REGISTERED CIVIL ENGINEER DATE	
			6-24-13	PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

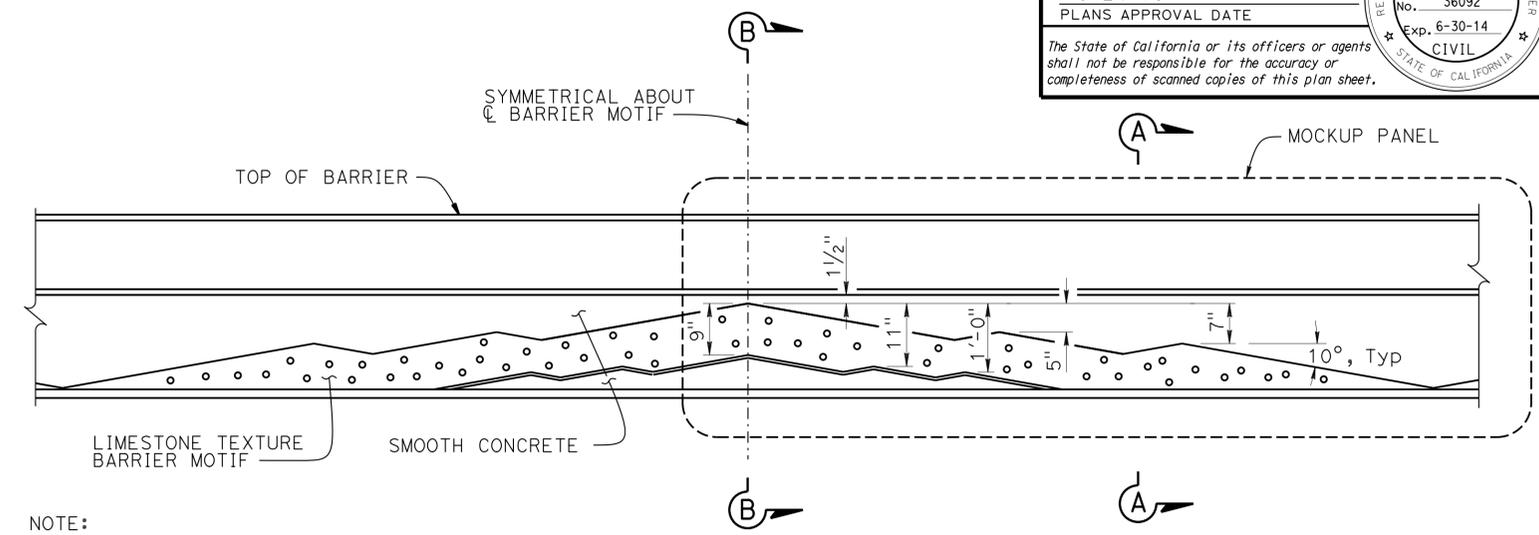


NOTE:
For details not shown, see "SECTION B - B"

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

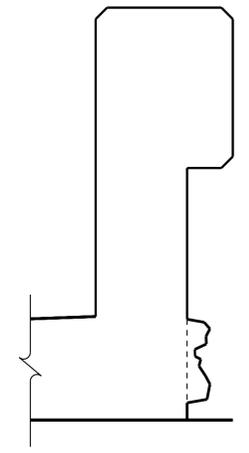


SECTION B - B
1/2" = 1'-0"



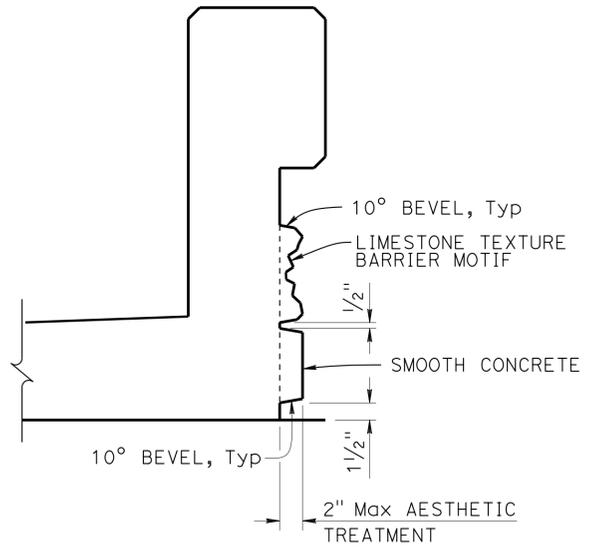
NOTE:
For details not shown, see "PART ELEVATION - CONCRETE BARRIER TYPE 26"

PART ELEVATION - CONCRETE BARRIER TYPE 732
3/4" = 1'-0"

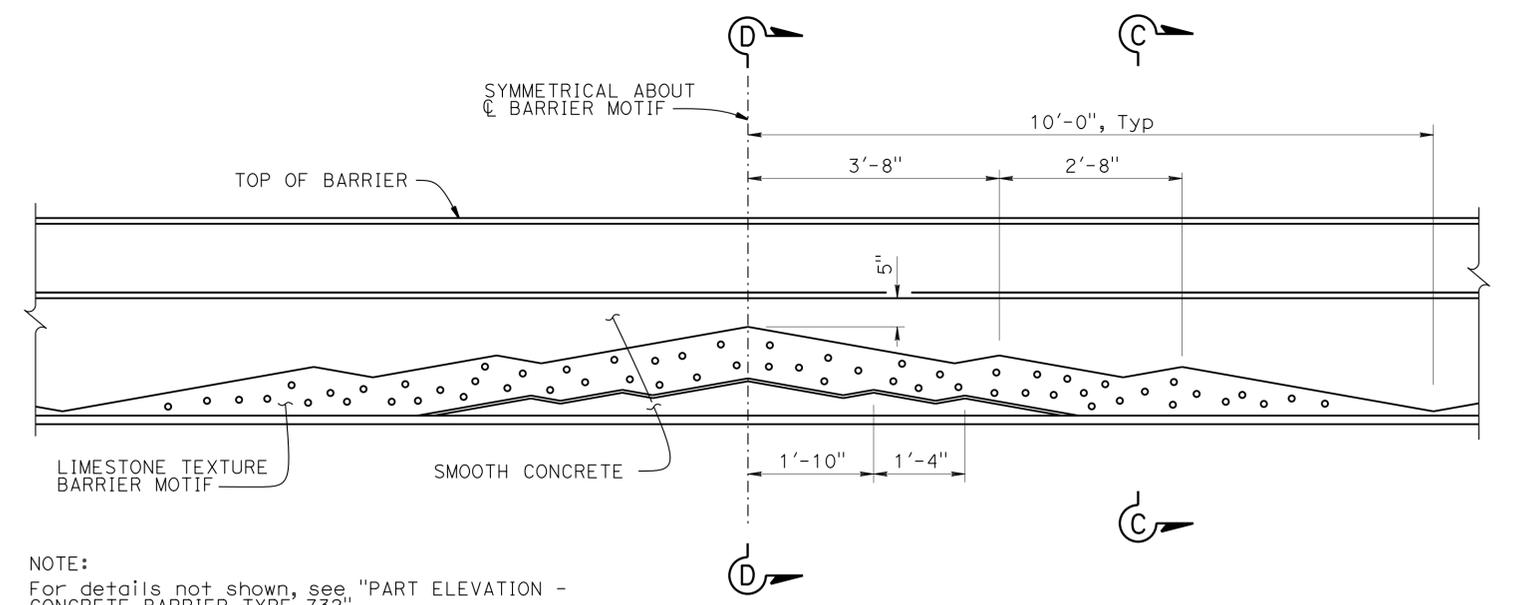


NOTE:
For details not shown, see "SECTION D - D"

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



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



NOTE:
For details not shown, see "PART ELEVATION - CONCRETE BARRIER TYPE 732"

PART ELEVATION - CONCRETE BARRIER TYPE 26
3/4" = 1'-0"

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

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	DESIGN	BY David Fowkes	CHECKED Art V Herrera	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	19-0101	GILARDI ROAD OVERCROSSING (RAISE) AESTHETIC DETAILS NO. 1			
	DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera			POST MILE	12.3				
	QUANTITIES	BY Ali Asnaashari	CHECKED Michael K Bergman			CONTRACT NO.:	03-3E1001				
				UNIT: 3578	PROJECT NUMBER & PHASE: 03000004731	CONTRACT NO.:		03-3E1001	REVISION DATES	SHEET	OF
				FILE => 19-0101-1-arcd01.dgn			DISREGARD PRINTS BEARING EARLIER REVISION DATES		8-16-12	12	18

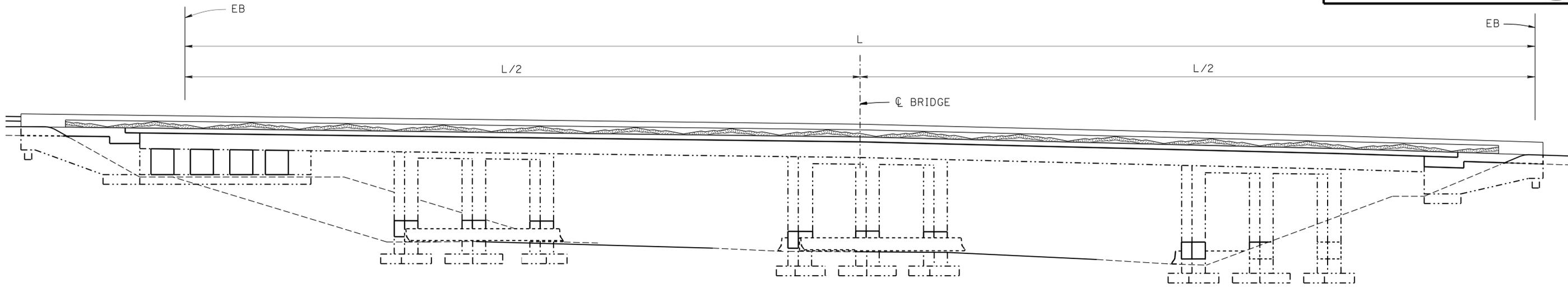
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plq	80	8.1/37.8	432	437

Ali Asnaashari 10-22-12
REGISTERED CIVIL ENGINEER DATE

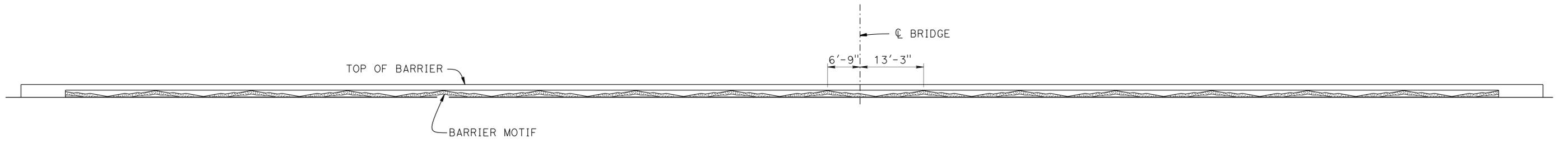
6-24-13
PLANS APPROVAL DATE

ALI ASNAASHARI
No. 36092
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

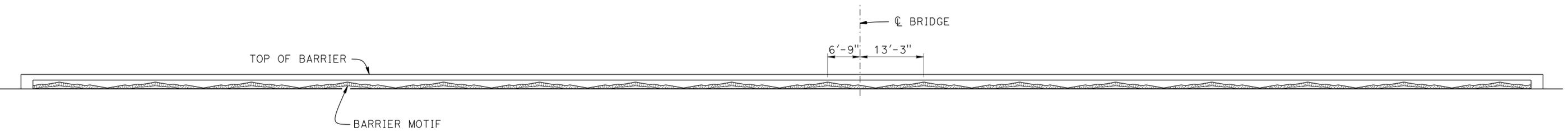
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



ELEVATION
 $\frac{3}{32}'' = 1'-0''$



BARRIER TYPE 732 AESTHETIC TREATMENT
 $\frac{3}{32}'' = 1'-0''$



BARRIER TYPE 26 AESTHETIC TREATMENT
 $\frac{3}{32}'' = 1'-0''$

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

DESIGN	BY David Fowkes	CHECKED Art V Herrera
DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera
QUANTITIES	BY Ali Asnaashari	CHECKED Michael K Bergman

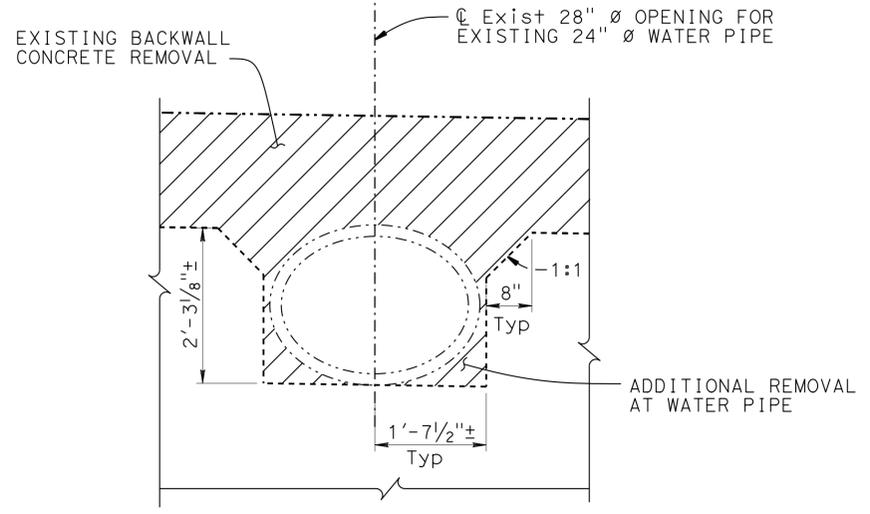
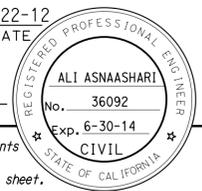
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 3

BRIDGE NO.	19-0101
POST MILE	12.3

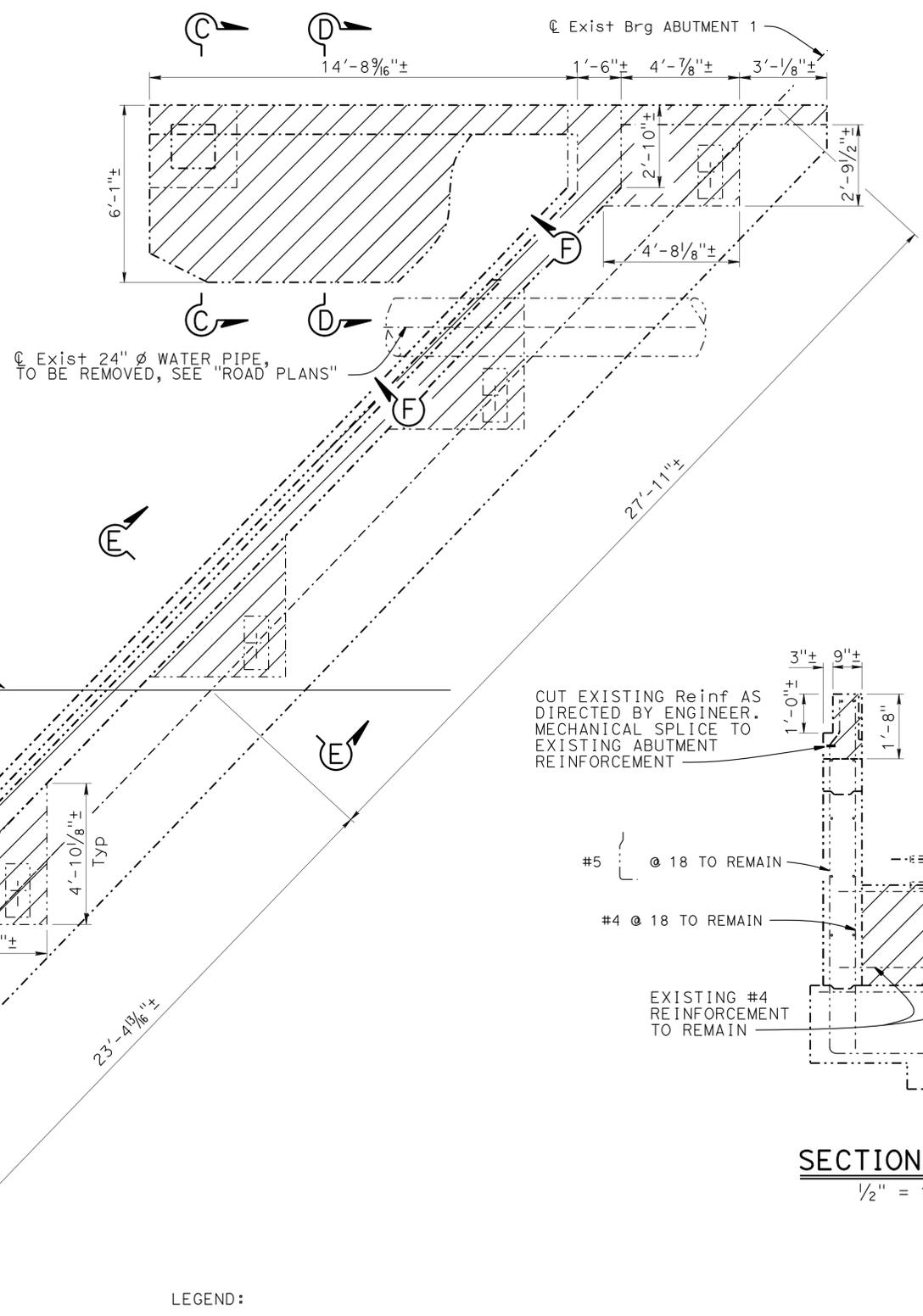
GILARDI ROAD OVERCROSSING (RAISE)
AESTHETIC DETAILS NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	8.1/37.8	433	437
 REGISTERED CIVIL ENGINEER			10-22-12	DATE	
6-24-13			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

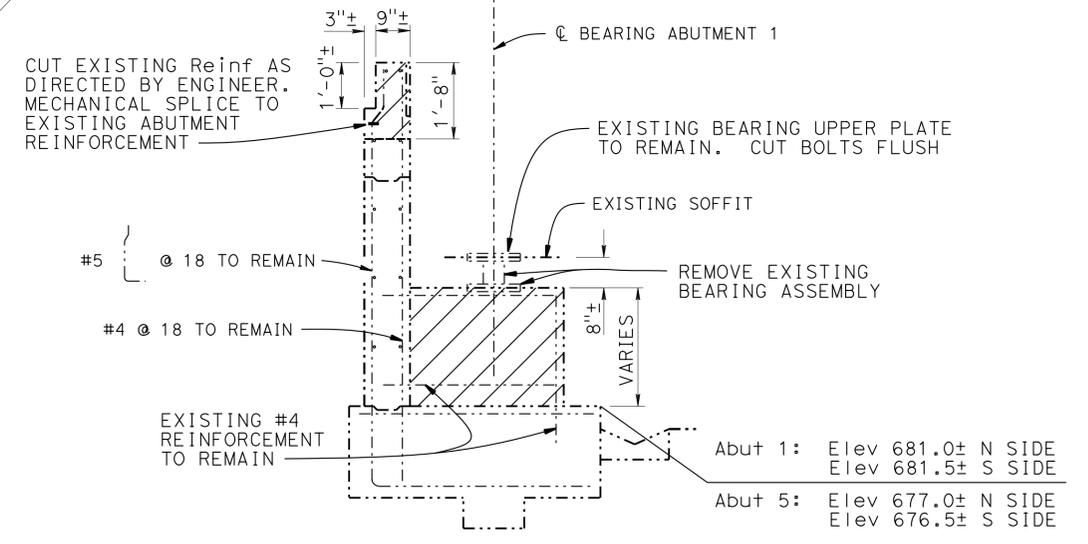


NOTE:
Pedestal not shown

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



PLAN
3/8" = 1'-0"



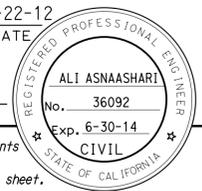
SECTION E - E
1/2" = 1'-0"

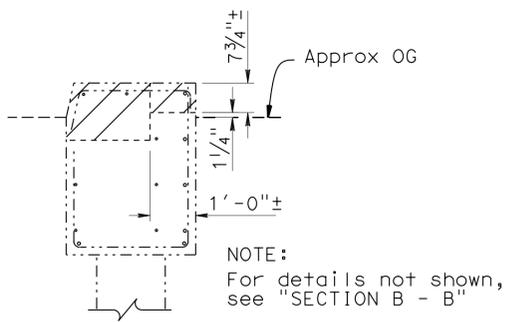
Abut 1: Elev 681.0± N SIDE
Elev 681.5± S SIDE
Abut 5: Elev 677.0± N SIDE
Elev 676.5± S SIDE

- LEGEND:
 - Indicates existing bridge removal (portion)
- NOTES:
 1. For "SECTION A - A", "SECTION B - B", "SECTION C - C", "SECTION D - D" and details not shown, see "CONCRETE REMOVAL DETAILS NO. 2" sheet
 2. Abutment 1 shown, Abutment 5 similar, except as shown

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

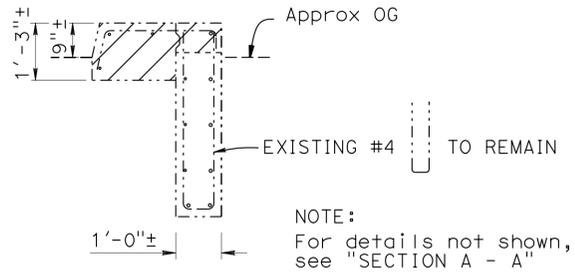
DESIGN	BY	Eric G Burgeson	CHECKED	Art V Herrera	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	19-0101	GILARDI ROAD OVERCROSSING (RAISE) CONCRETE REMOVAL DETAILS NO. 1	
	DETAILS	BY	Nancy C Gwynn	CHECKED			Art V Herrera	POST MILE		12.3
QUANTITIES	BY	Ali Asnaashari	CHECKED	Michael K Bergman	UNIT: 3578	PROJECT NUMBER & PHASE: 03000004731	CONTRACT NO.: 03-3E1001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 14 OF 18

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	8.1/37.8	434	437
 REGISTERED CIVIL ENGINEER			10-22-12	DATE	
6-24-13			PLANS APPROVAL DATE		
					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



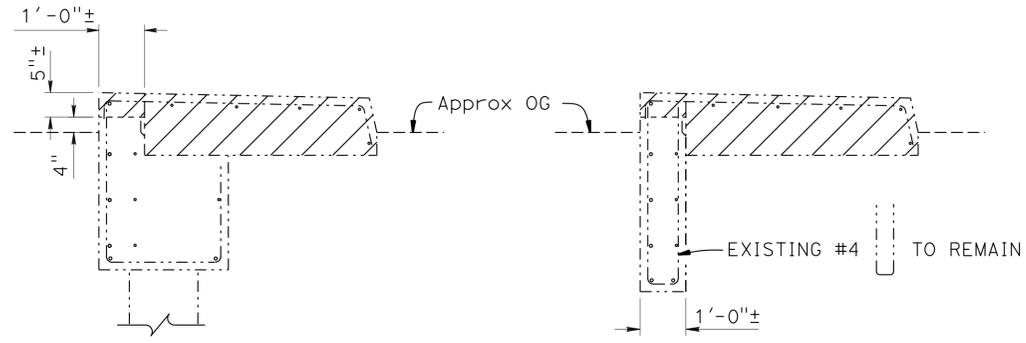
SECTION A - A
1/2" = 1'-0"

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



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

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



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

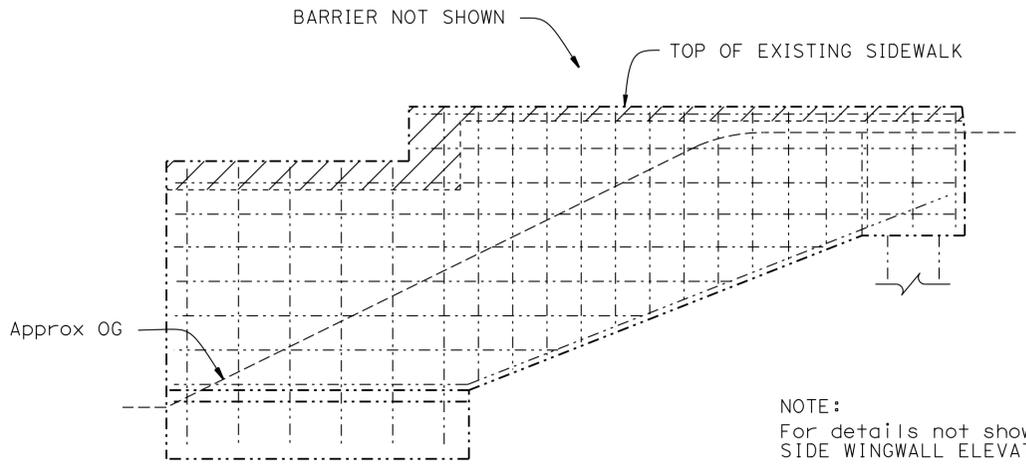
NOTE:
For details not shown, see "SECTION C - C"

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

LEGEND:
 - Indicates bridge removal (portion)

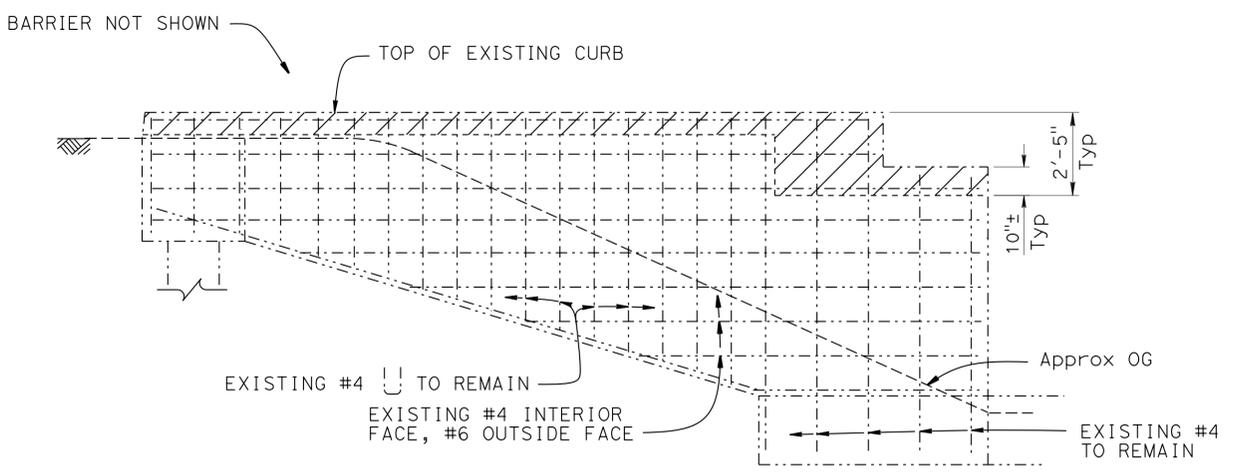
- NOTES:
- For location of "SECTION A - A", "SECTION B - B", "SECTION C - C", "SECTION D - D" and details not shown, see "CONCRETE REMOVAL DETAILS NO. 1" sheet
 - Abutment 1 shown, Abutment 5 similar

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



LEFT SIDE WINGWALL ELEVATION
3/8" = 1'-0"

NOTE:
For details not shown, see "RIGHT SIDE WINGWALL ELEVATION" detail

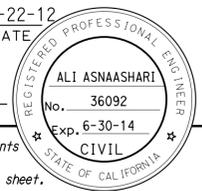


RIGHT SIDE WINGWALL ELEVATION
3/8" = 1'-0"

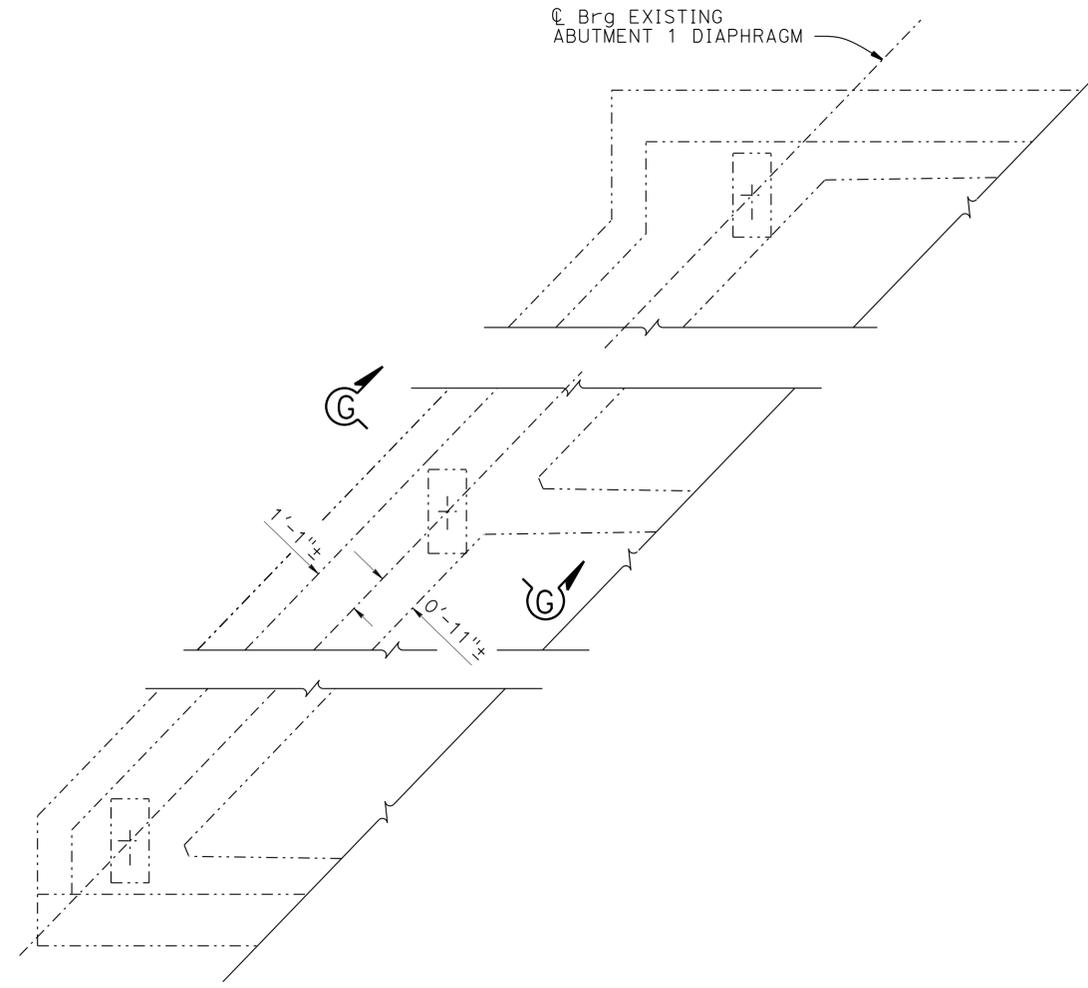
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Eric G Burgeson	CHECKED Art V Herrera	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 3	BRIDGE NO.	19-0101	GILARDI ROAD OVERCROSSING (RAISE) CONCRETE REMOVAL DETAILS NO. 2
	DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera			POST MILE	12.3	
	QUANTITIES	BY Ali Asnaashari	CHECKED Michael K Bergman	UNIT: 3578	PROJECT NUMBER & PHASE: 03000004731	CONTRACT NO.: 03-3E1001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3			8-23-11 10-17-12
								SHEET 15 OF 18

USERNAME => s124486 DATE PLOTTED => 28-JUN-2013 TIME PLOTTED => 13:23

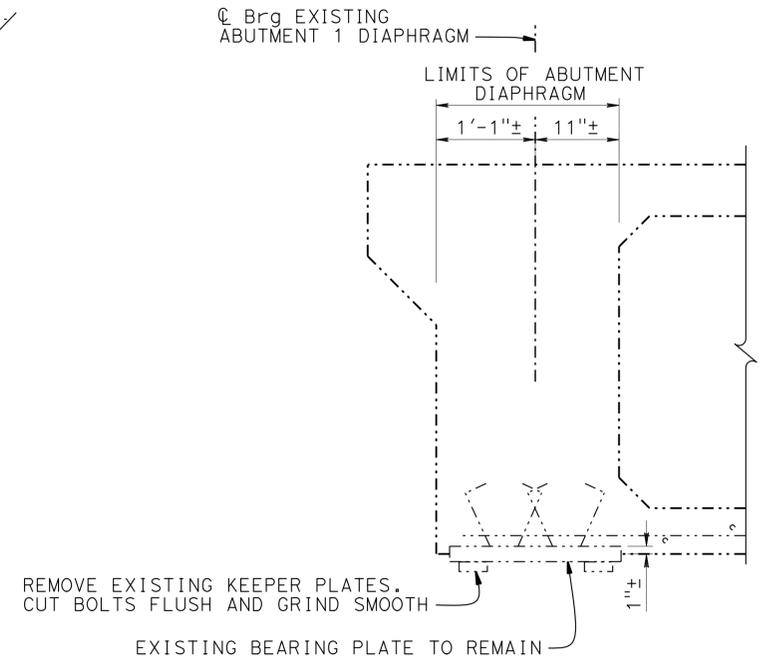
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plq	80	8.1/37.8	435	437


 REGISTERED CIVIL ENGINEER DATE 10-22-12
 PLANS APPROVAL DATE 6-24-13


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PART PLAN
1/2" = 1'-0"



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

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

NOTE:
Abutment 1 shown, Abutment 5 similar

DESIGN	BY Eric G Burgeson	CHECKED Art V Herrera
DETAILS	BY Nancy C Gwynn	CHECKED Art V Herrera
QUANTITIES	BY Ali Asnaashari	CHECKED Michael K Bergman

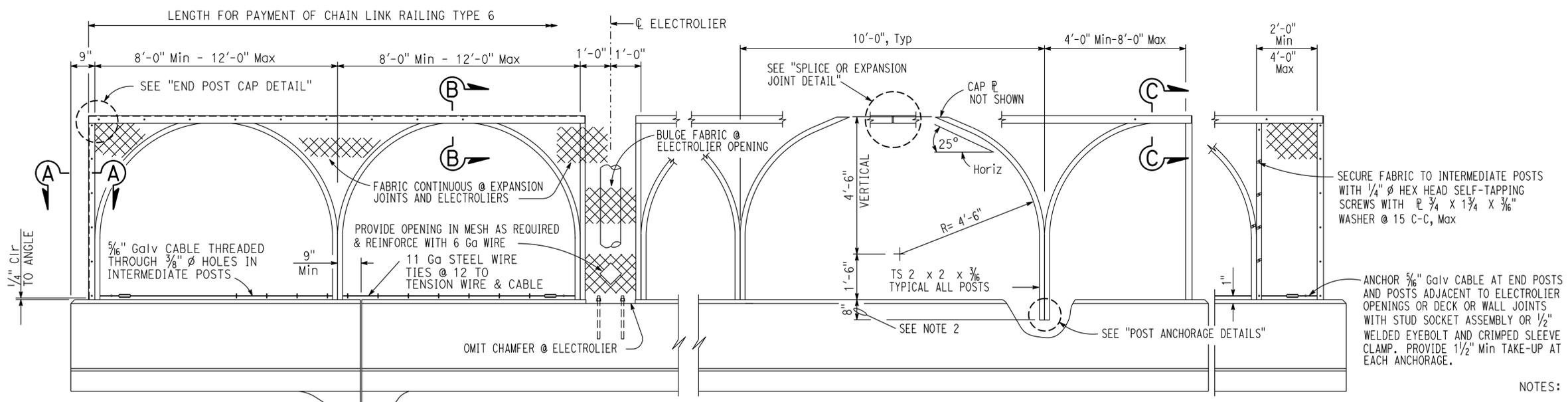
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 3

BRIDGE NO.	19-0101
POST MILE	12.3

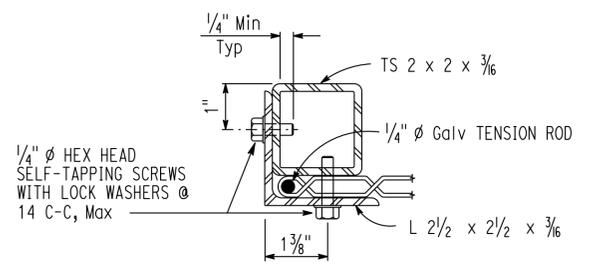
GILARDI ROAD OVERCROSSING (RAISE)
CONCRETE REMOVAL DETAILS NO. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plca	80	8.1/37.8	436	437
			10/01/12	REGISTERED CIVIL ENGINEER DATE	
			6-24-13	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER TILLAT SATTER No. C42892 Exp. 3-31-14 CIVIL STATE OF CALIFORNIA		
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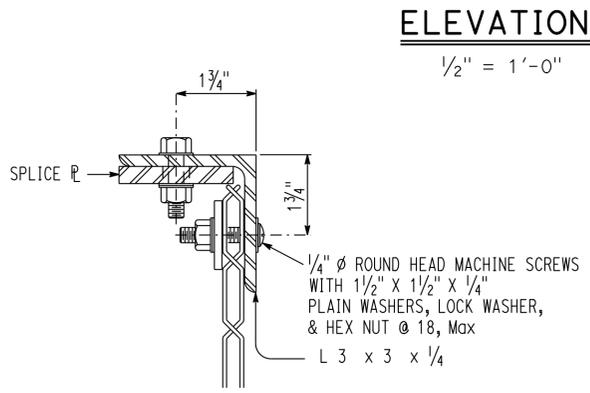


END PANEL 8'-0" - 12'-0" EXPANSION PANEL AT ELECTROLIER TYPICAL INTERIOR PANEL 10'-0", Typ END PANEL 4'-0" - 8'-0" END PANEL 2'-0" - 4'-0"

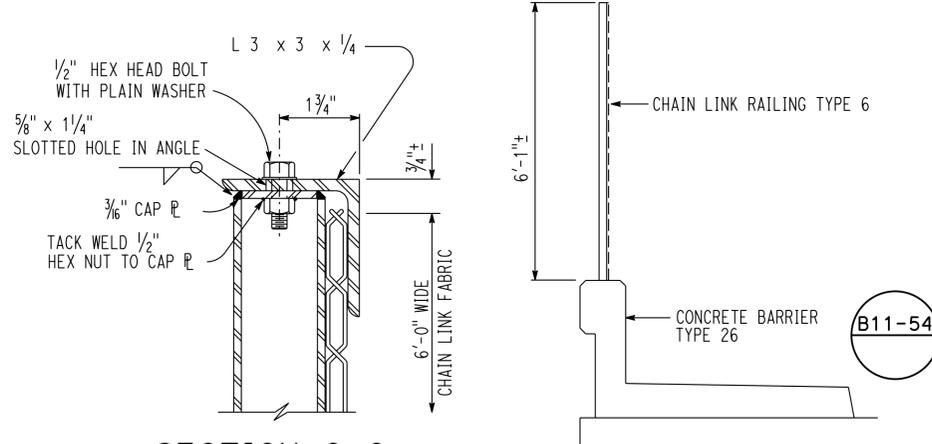
- NOTES:
- Horizontal angle shall be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electroliers and other rail discontinuities.
 - One post may be embedded 6" minimum to accommodate grade changes, otherwise fabricate post lengths as required.
 - Curved posts may be rotated in plan within its post pocket to accommodate curved horizontal alignment.
 - Straight posts and straight portions of curved posts shall be installed normal to bridge profile grade.
 - Top horizontal angle shall be parallel to bridge profile grade and shall be shop bent to fit horizontal curves.
 - When railing is on slope, fabric shall be placed parallel to slope.
 - Alternative details may be submitted by Contractor for Engineer's approval.
 - For details and reinforcement not shown, see "CONCRETE BARRIER TYPE 26" sheet. (B11-54)
 - See Bridge Plans for limits of Chain Link Railing Type 6.
 - Provide thimbles at all cable loops.
 - Chain link fabric to be 6'-0" wide with 1" mesh and with knuckled selvage top and bottom.
 - When railing is placed on a horizontal alignment with a radius of 150'-0" or less, thread 5/16" cable through 3/8" diameter welded eye rods embedded 4" into the top of the concrete parapet and equally spaced to limit the middle ordinate distance between 5/16" cable and the curve to 1" maximum.
 - Splices and expansion joints shall be located at center panel.
 - Holes in posts for 5/16" cable and its anchorage may be field drilled and painted with zinc rich paint.



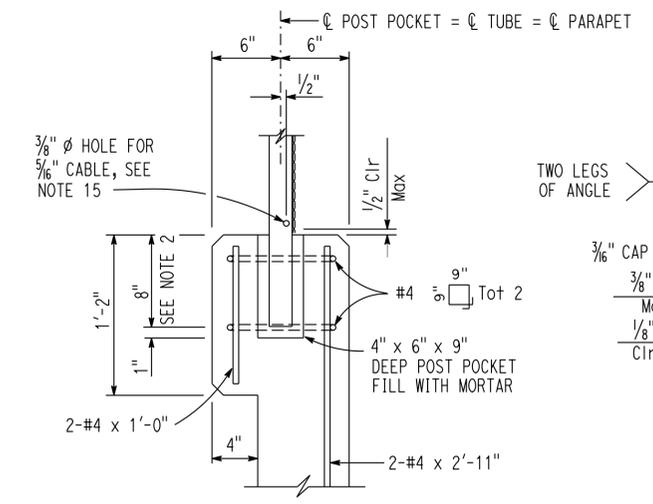
SECTION A-A
6" = 1'-0"



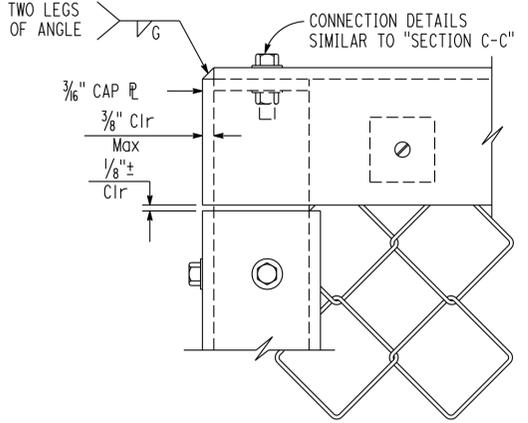
SECTION B-B
6" = 1'-0"



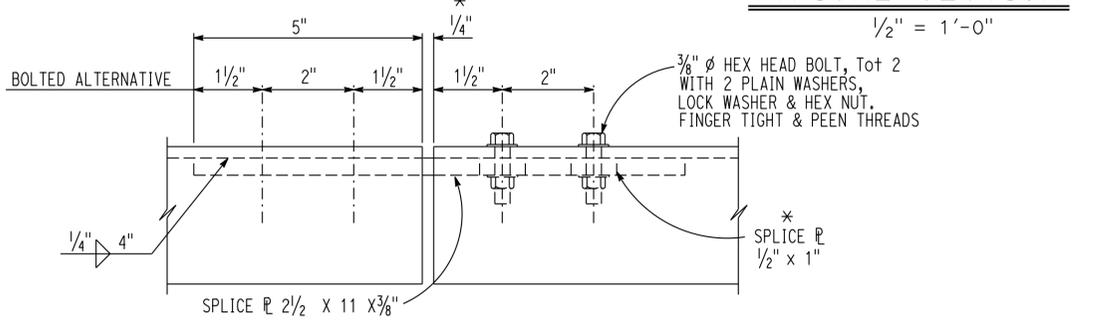
SECTION C-C
6" = 1'-0"



POST ANCHORAGE DETAIL
1 1/2" = 1'-0"



END POST CAP DETAIL
6" = 1'-0"



SPLICE OR EXPANSION JOINT DETAIL
6" = 1'-0"

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

STANDARD DRAWING	APPROVAL DATE July 2011
FILE NO. xs16-200	

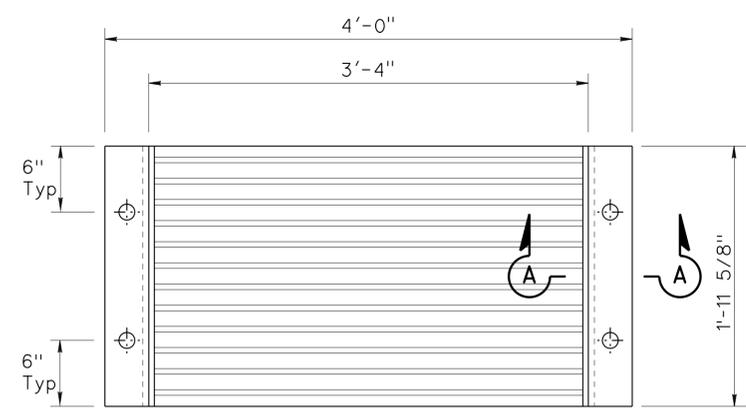
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 19-0101 POST MILE 12.3	GILARDI ROAD OVERCROSSING (RAISE) CHAIN LINK RAILING TYPE 6
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Plca	80	8.1/37.8	437	437

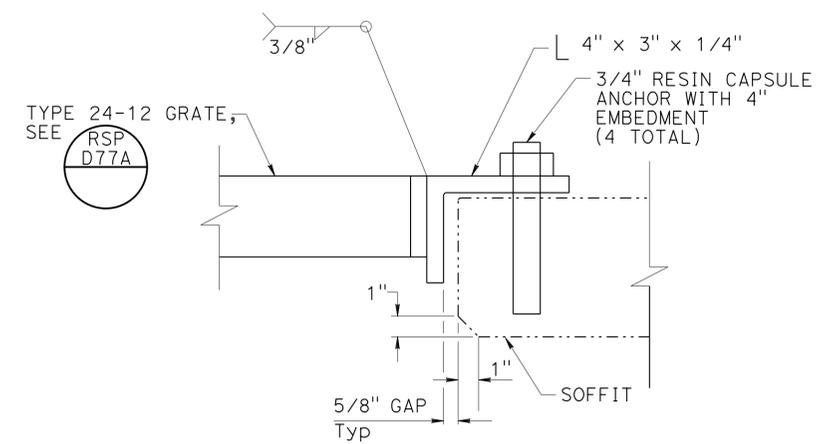

 REGISTERED CIVIL ENGINEER DATE 5/15/13
 6-24-13
 PLANS APPROVAL DATE
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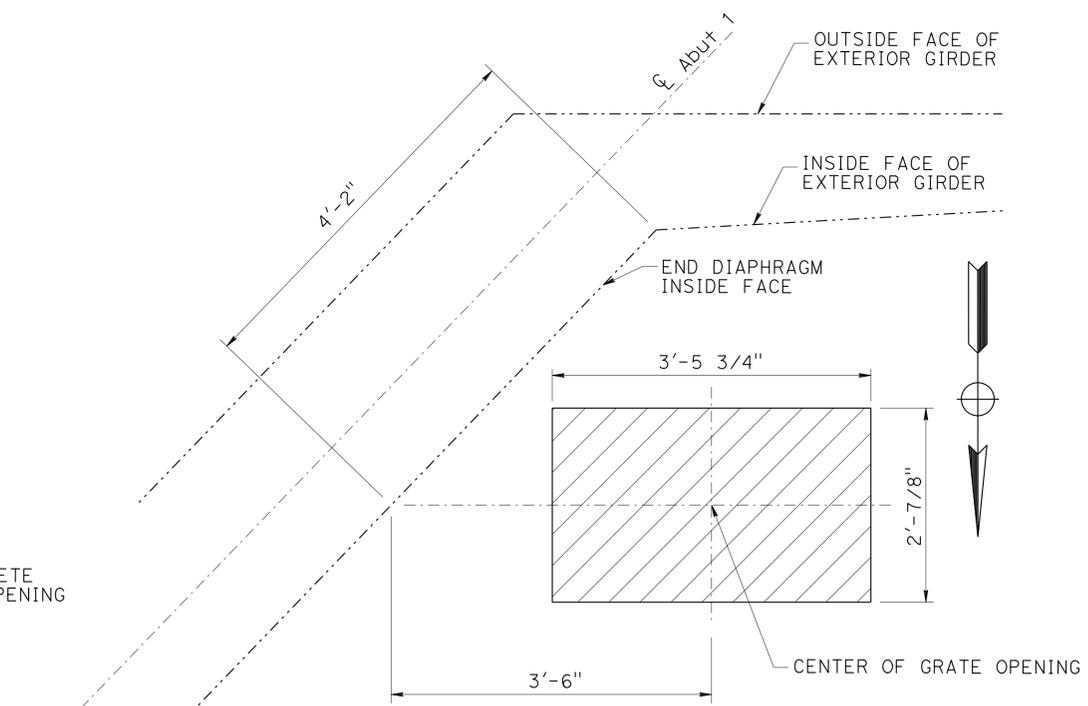
PSOMAS
 1075 CREEKSIDE RIDGE DRIVE, SUITE 200
 ROSEVILLE, CA 95678
 PLACER COUNTY WATER AGENCY
 144 FERGUSON ROAD
 AUBURN, CA 95604



**PLAN - SOFFIT GRATE
 (TYPE 24-12)**
 NO SCALE



SECTION A-A



**PLAN - SOFFIT GRATE OPENING AT ABUT 1
 ABUT 5 SIMILAR**

LEGEND:
 REMOVE CONCRETE FOR SOFFIT OPENING

SOFFIT GRATE DETAIL
 NO SCALE


 DESIGN OVERSIGHT
 6-20-13
 SIGN OFF DATE

DESIGN	BY BRIAN WRIGHT	CHECKED TIM HAYES
DETAILS	BY ERNIE LEPORINI	CHECKED TIM HAYES
QUANTITIES	BY ERNIE LEPORINI	CHECKED BRIAN WRIGHT

**PREPARED FOR THE
 STATE OF CALIFORNIA**
 DEPARTMENT OF TRANSPORTATION

BRIAN G. WRIGHT
 PROJECT ENGINEER

BRIDGE NO.	19-0101
POST MILES	12.3

GILARDI ROAD OVERCROSSING (RAISE)
WATER LINE DETAILS