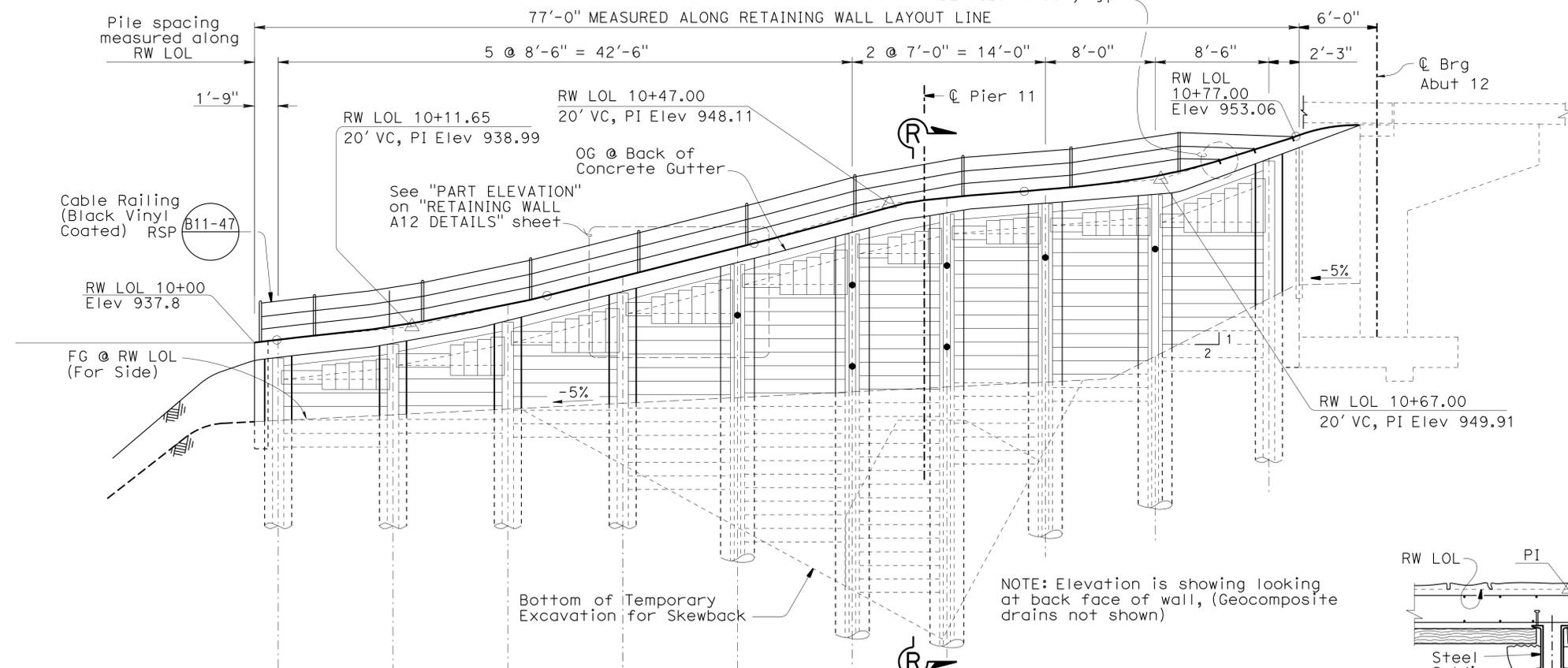
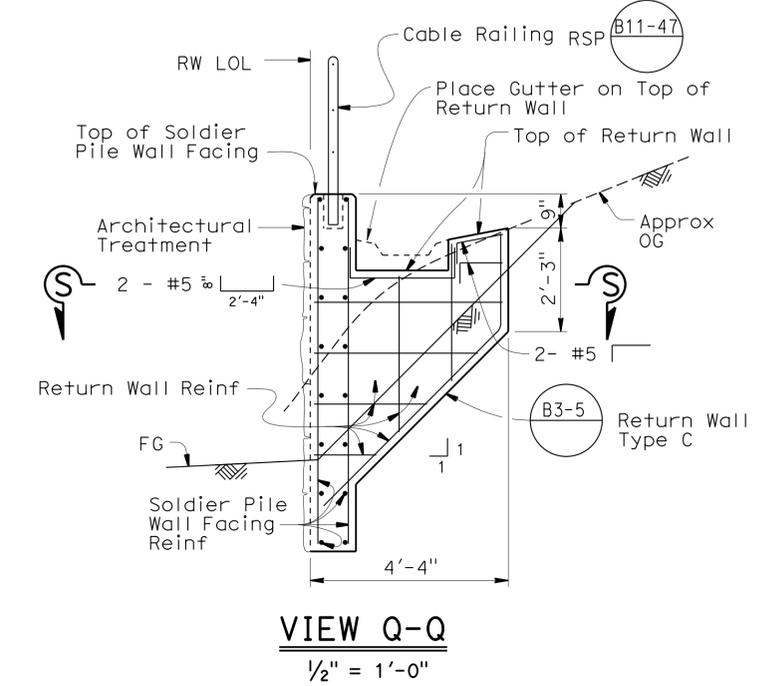
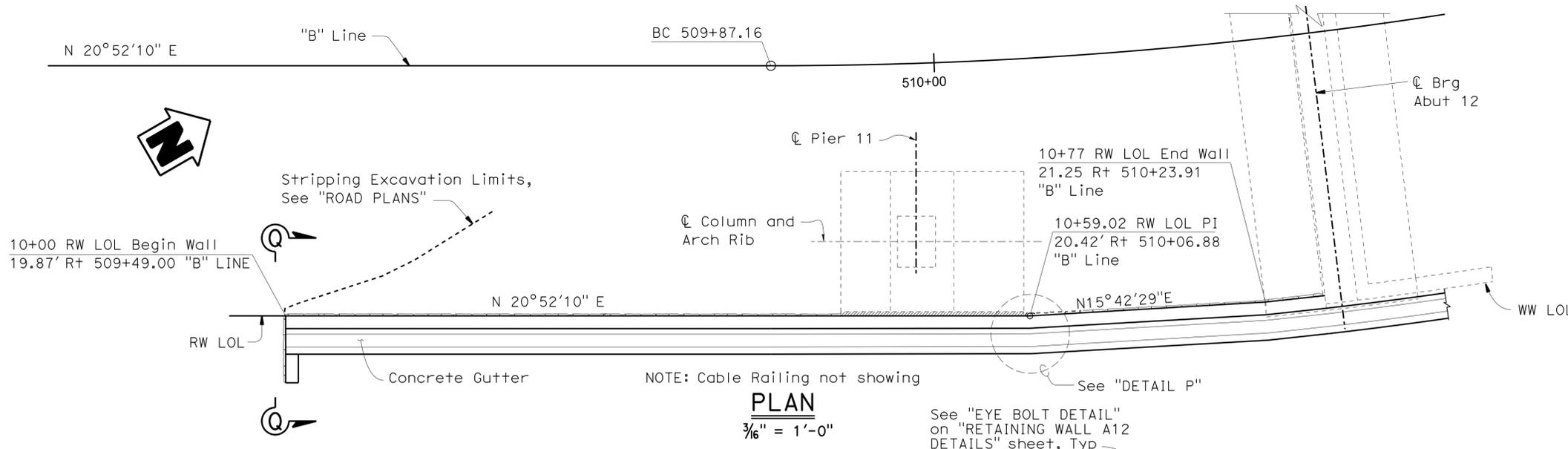
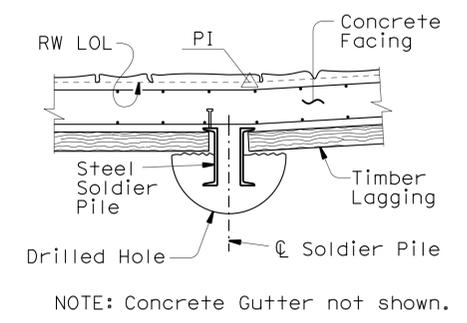


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	101	184

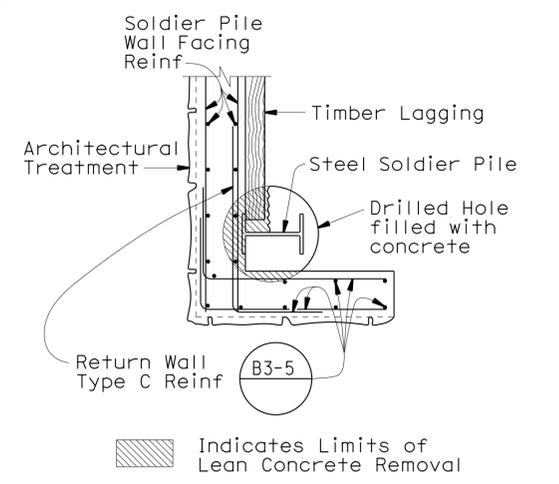
Kevin J. Harper
 REGISTERED CIVIL ENGINEER DATE 3/20/13
 6-24-13
 PLANS APPROVAL DATE
 Kevin Harper
 No. 42221
 Exp. 3/31/14
 CIVIL
 STATE OF CALIFORNIA
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- NOTES:
- For "SECTION R-R" and "TYPICAL SECTION", see "RETAINING WALL A12 DETAILS" sheet.
 - For additional wall details see "GROUND ANCHOR DETAILS", "RETAINING WALL A12 DETAILS" and "SOLDIER PILE WALL DETAILS" sheets.
- Indicates Ground Anchor



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

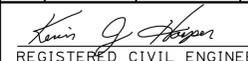


SECTION S-S
1/2" = 1'-0"

	Pile No:	1	2	3	4	5	6	7	8	9	10
Pile Length:	36'	36'	31'	25'	30'	40'	40'	35'	30'	30'	
No. of Laggings between Piles:		6	6	8	14	20	26	18	14	12	
Ground Anchor Force, T1 (KIPS):					100	60	60	80	80		
Ground Anchor Force, T2 (KIPS):						100	100				
Pile Type:		W16 x 67 in 2'-0" drilled hole			2 - C15 x 50 in 2'-6" drilled hole				W16 x 67 in 2'-0" drilled hole		

ELEVATION
3/16" = 1'-0"

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	DESIGN BY Eric Watson CHECKED Kevin Harper	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO. 01-0080	MIDDLE FORK SMITH RIVER BRIDGE (REPLACE) RETAINING WALL A12 LAYOUT
	DETAILS BY J.Zhou / B.Huddleston CHECKED Kevin Harper		DESIGN BRANCH 1	POST MILE 24.04	
	QUANTITIES BY Eric Watson CHECKED D.Sessions / V.Shostak				
			UNIT: 3576 PROJECT NUMBER & PHASE: 01000003711	CONTRACT NO.: 01-479404	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 03/25/12, 03-20-13, 03/24/13 SHEET 15 OF 64

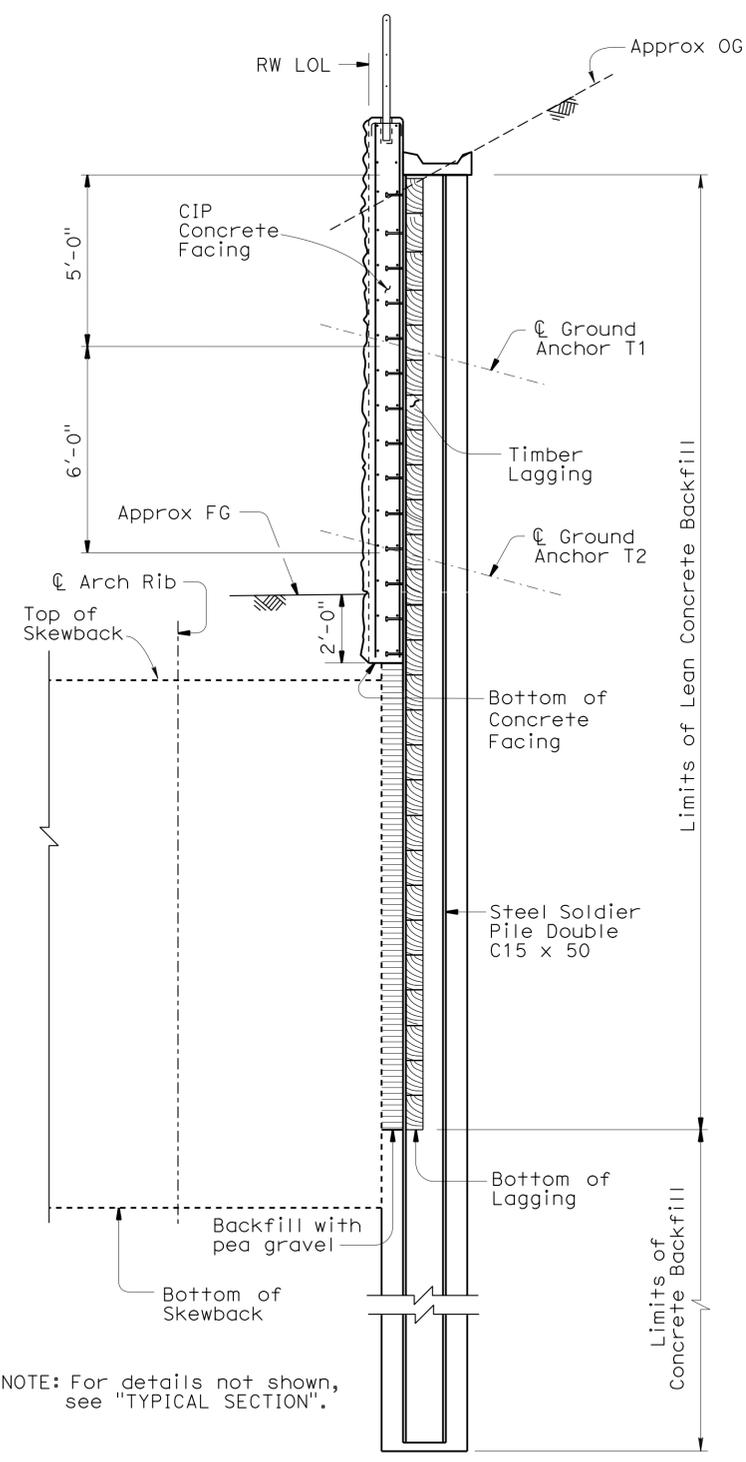
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	102	184
 REGISTERED CIVIL ENGINEER			DATE		
6-24-13 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

LEGEND:

- Indicates 3/4" ϕ x 6" Concrete Anchor
- + - Indicates 1/2" ϕ x 10" Lag Screws

NOTES:

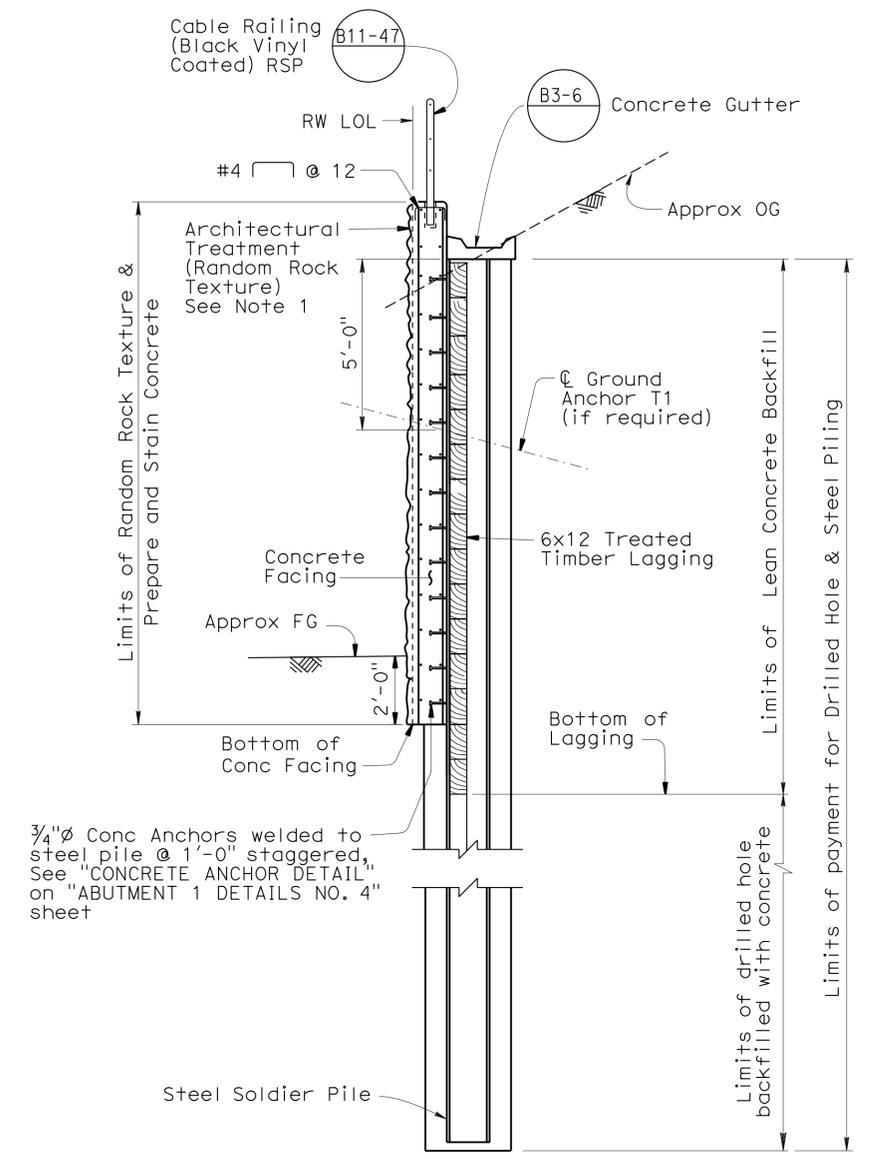
- For Architectural Treatment, see "ARCHITECTURAL DETAILS" on "SOLDIE PILE WALL DETAILS" sheet
- For location of "SECTION R-R" and EYE BOLTS see "RETAINING WALL A12 LAYOUT" sheet.
- For Stay R details, see "SECTION V-V" on "ABUTMENT 1 DETAILS NO. 4" sheet.



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

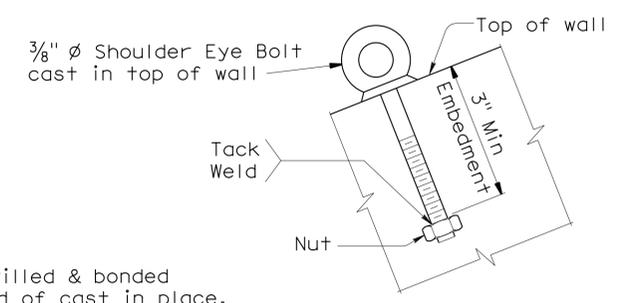
NOTE: For details not shown, see "TYPICAL SECTION".

NOTE: Eye bolts may be drilled & bonded into 5" holes instead of cast in place.

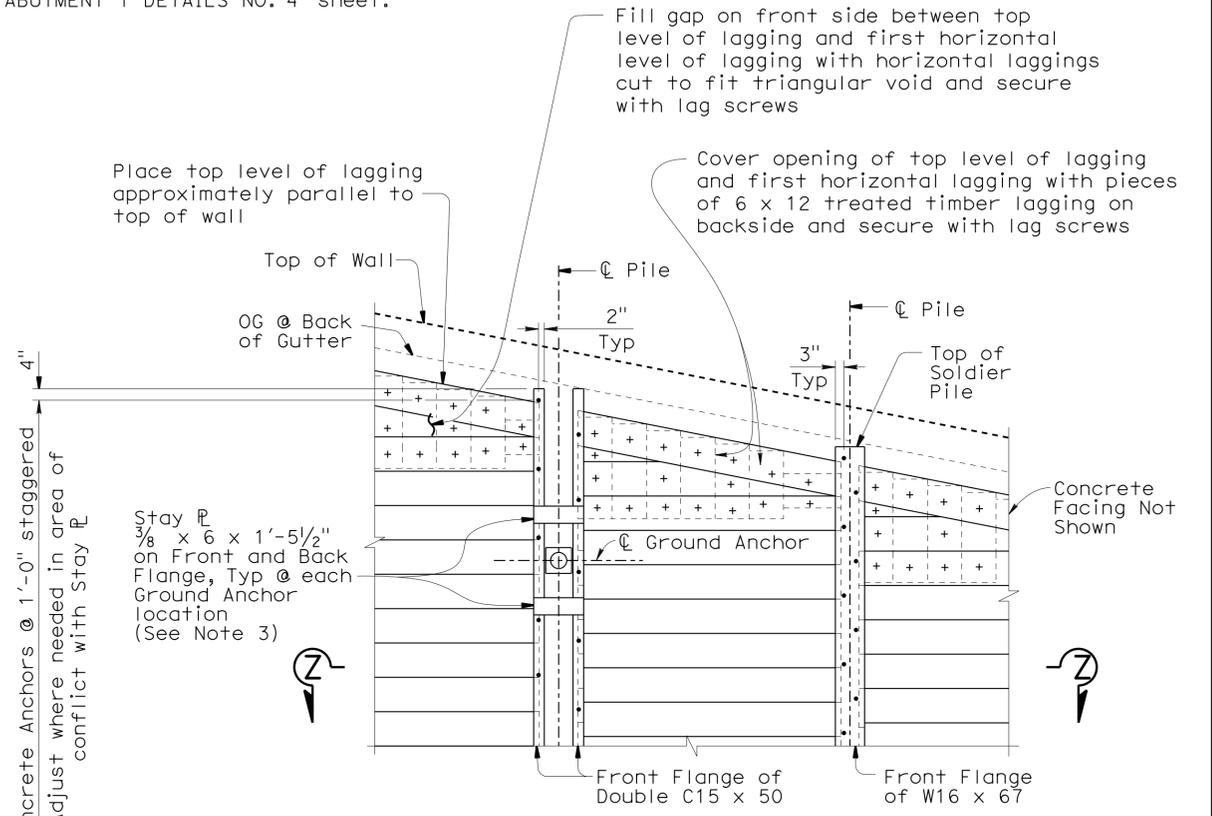


TYPICAL SECTION
3/8" = 1'-0"

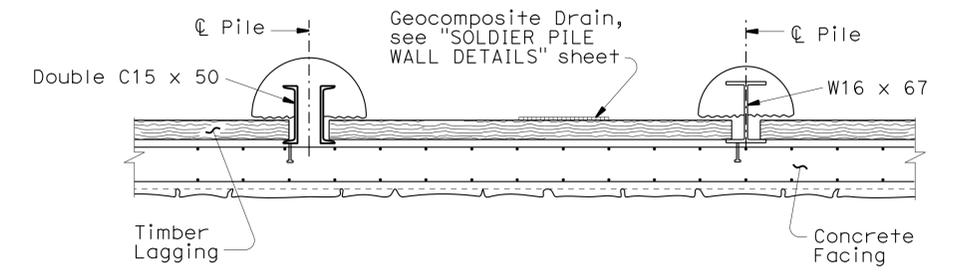
3/4" ϕ Conc Anchors welded to steel pile @ 1'-0" staggered. See "CONCRETE ANCHOR DETAIL" on "ABUTMENT 1 DETAILS NO. 4" sheet



EYE BOLT DETAIL
6" = 1'-0"



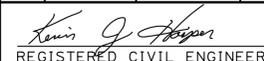
(Looking at Front Face of Wall)
PART ELEVATION
3/8" = 1'-0"



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

NOTE: For details not shown, see "SECTION X-X" on ABUTMENT 1 DETAILS NO. 4" sheet.

DESIGN BY Eric Watson		CHECKED Kevin Harper	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO.	MIDDLE FORK SMITH RIVER BRIDGE (REPLACE) RETAINING WALL A12 DETAILS			
DETAILS BY M.Tran / B.Huddleston		CHECKED Kevin Harper			01-0080				
QUANTITIES BY Eric Watson		CHECKED D.Sessions / V.Shostak			24.04				
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3576	PROJECT NUMBER & PHASE: 01000003711	CONTRACT NO.: 01-479404	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 16 OF 64

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	103	184
			3/20/13	DATE	
REGISTERED CIVIL ENGINEER			DATE		
6-24-13			PLANS APPROVAL DATE		
Kevin Harper			No. 42221		
Exp. 3/31/14			CIVIL		
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RETAINING WALL DESIGN NOTES

Caltrans Bridge Design Specifications - April 2000
(1996 AASHTO with Interims and revisions by Caltrans)

SURCHARGE:
2'-0" Level Earth

SOIL PARAMETERS:
(For determination of design lateral earth pressures)
Abut 1 Wall $\phi = 32^\circ$, $\gamma = 125$ pcf (above bottom of facing)
Abut 12 Wall $\phi = 34^\circ$, $\gamma = 125$ pcf (above bottom of facing)
Abut 1 & 12 Wall $\phi = 45^\circ$, $\gamma_{sub} = 83$ pcf (below bottom of facing)

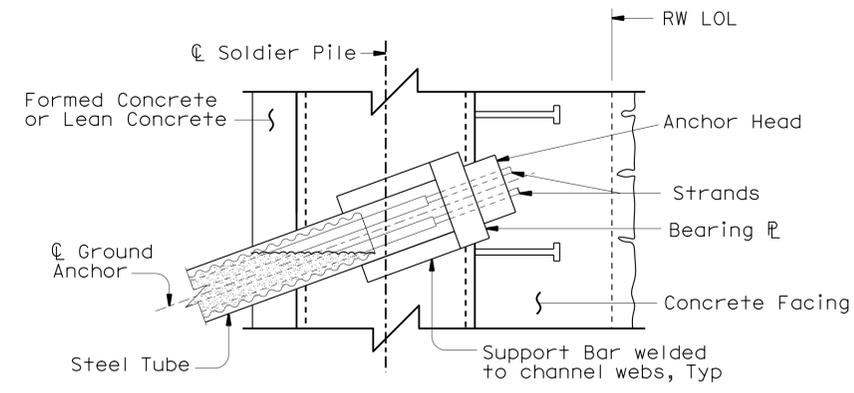
PRESTRESSING STEEL:
(GROUND ANCHORS)
Strands - ASTM designation: A416
Bars - ASTM designation: A722 Type II
T = 80 kips @ Abutment 1 Soldier Pile Wall
See "RETAINING WALL A12 LAYOUT" sheet for "T1" & "T2" for wall at Abutment 12
 f_{pu} = Minimum ultimate tensile stress of steel in ground anchor (kips/in²)
 A_s (Min) = Minimum cross sectional area of prestressing steel in Ground Anchor
 A_s (Min) = $\frac{1.5 T}{0.75 f_{pu}}$

REINFORCED CONCRETE:
(WORKING STRESS DESIGN)
 $f'_c = 3.6$ ksi, $f_c = 1.4$ ksi
 $f_y = 60$ ksi, $f_s = 24$ ksi
 $n = 8$

STRUCTURAL STEEL:
 $f_y = 50$ ksi, $f_s = 27.5$ ksi

STRUCTURAL TIMBER:
Treated Douglas Fir No. 2 or better
Timber to be full sawn

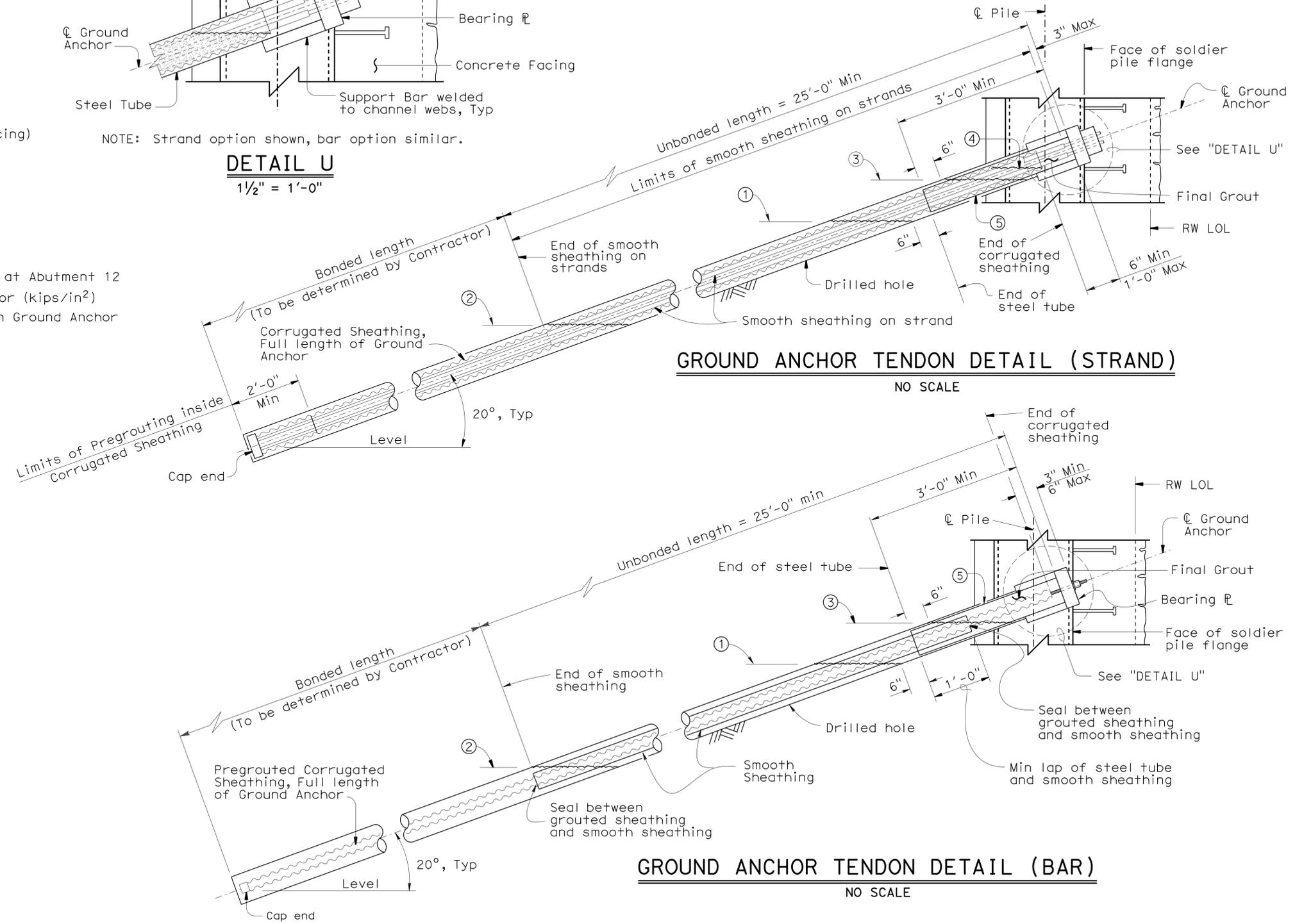
- LEGEND:**
- ① Level of initial grouting for drilled hole 6" ϕ or smaller
 - ② Level of initial grouting for drilled hole greater than 6" ϕ
 - ③ Level of secondary grouting
 - ④ Level of initial grouting inside corrugated sheathing
 - ⑤ Steel tube welded to bearing plate.
Inside diameter of steel tube shall be at least 1" greater than the outer diameter of corrugated sheathing. (Min thickness = 1/4")
Galvanize assembly after fabrication. Fill tube with grout.



NOTE: Strand option shown, bar option similar.

DETAIL U

1 1/2" = 1'-0"



GROUND ANCHOR TENDON DETAIL (STRAND)

NO SCALE

GROUND ANCHOR TENDON DETAIL (BAR)

NO SCALE

DESIGN	BY Eric Watson	CHECKED Kevin Harper
DETAILS	BY B.Jenko / B.Huddleston	CHECKED Kevin Harper
QUANTITIES	BY Eric Watson	CHECKED Greg Thornton

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

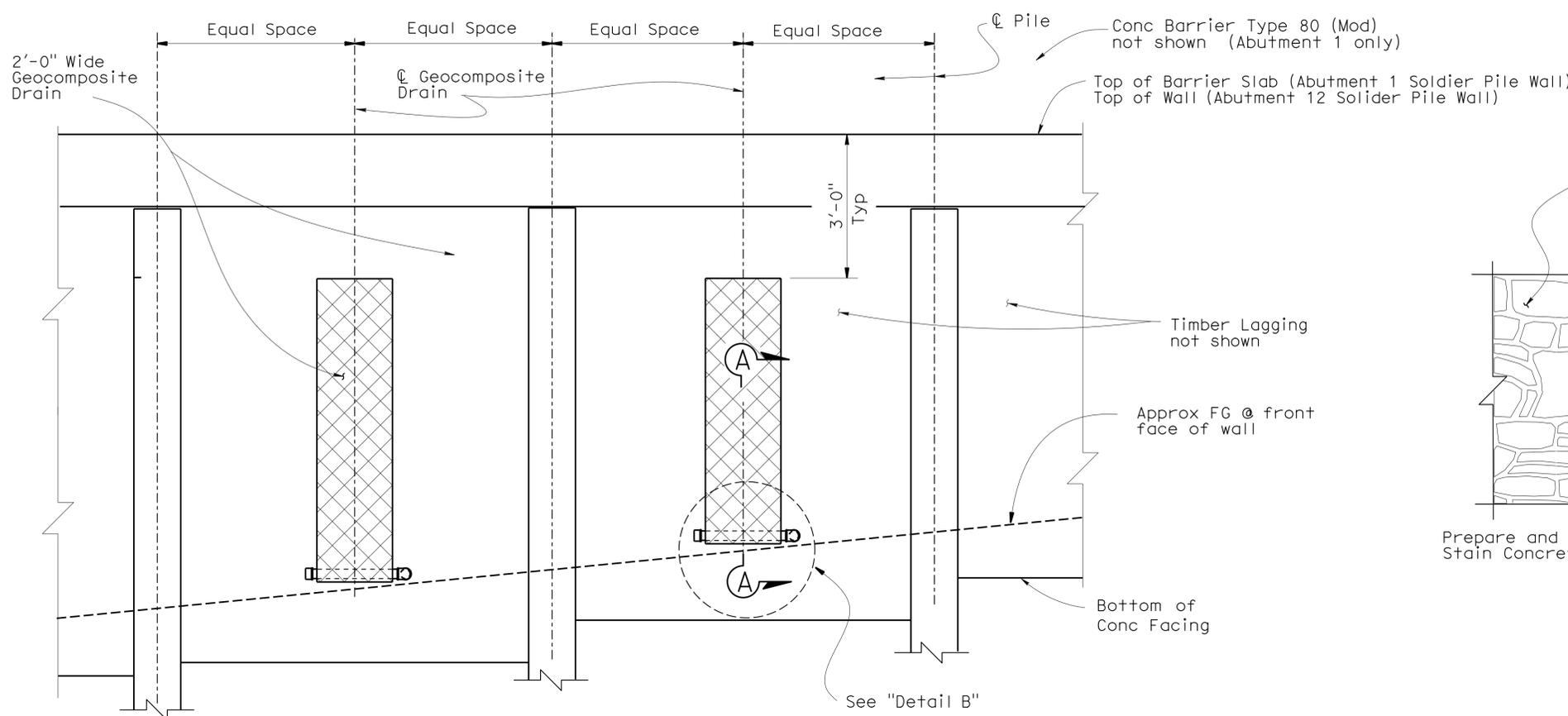
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	01-0080
POST MILE	24.04

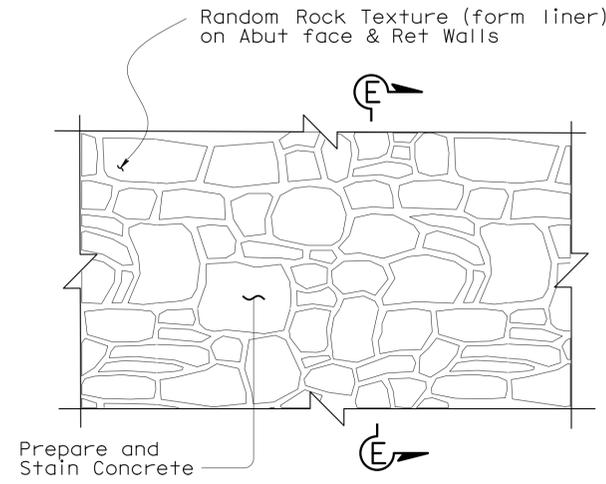
MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
GROUND ANCHOR DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	104	184

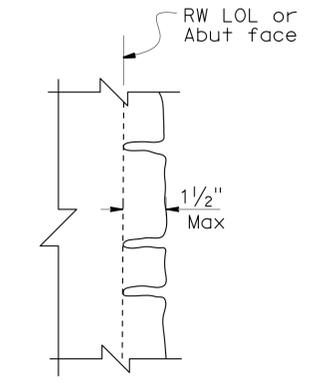
Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE
 Kevin Harper
 No. 42221
 Exp. 3/31/14
 CIVIL
 STATE OF CALIFORNIA
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PART REAR ELEVATION - GEOCOMPOSITE DRAIN
No scale

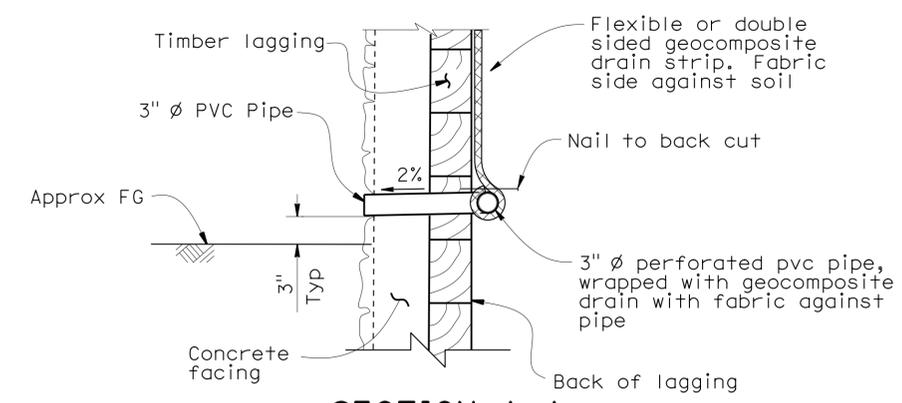


PART ELEVATION
3/4"=1'-0"

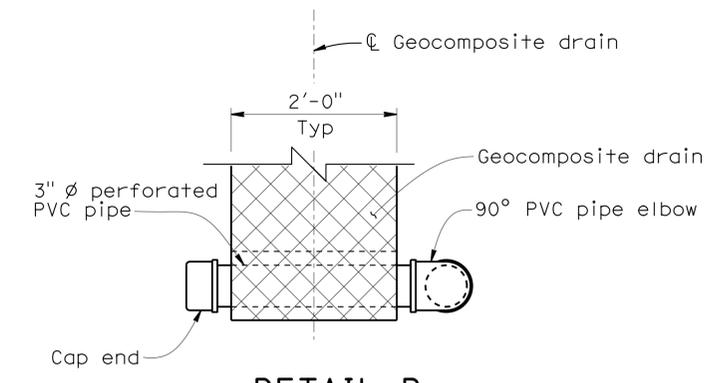


SECTION E-E
No scale

ARCHITECTURAL DETAILS
As shown



SECTION A-A
No scale



DETAIL B
No scale

DESIGN	BY Eric Watson	CHECKED Kevin Harper
DETAILS	BY Bruno Jenko	CHECKED Kevin Harper
QUANTITIES	BY Eric Watson	CHECKED Greg Thornton

STATE OF CALIFORNIA
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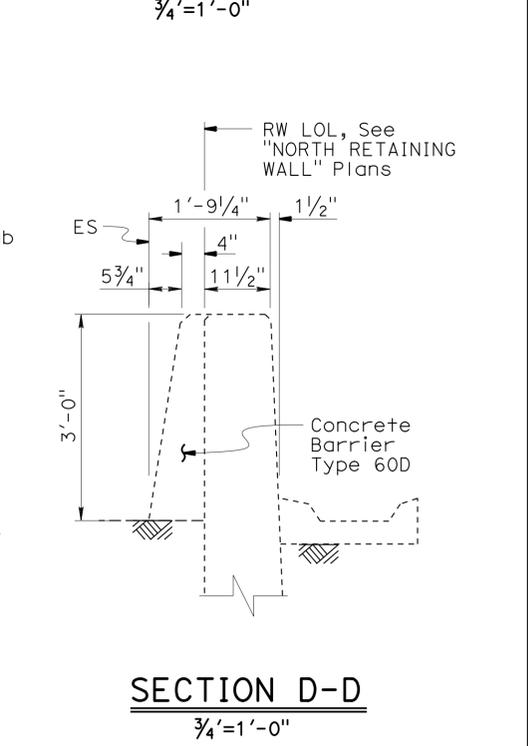
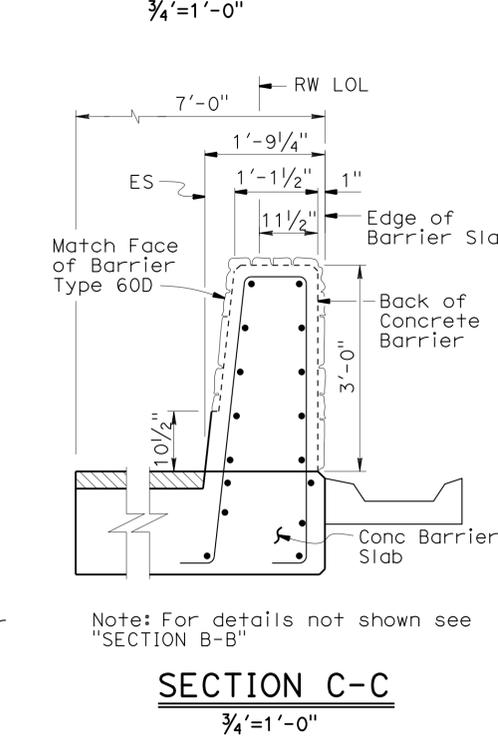
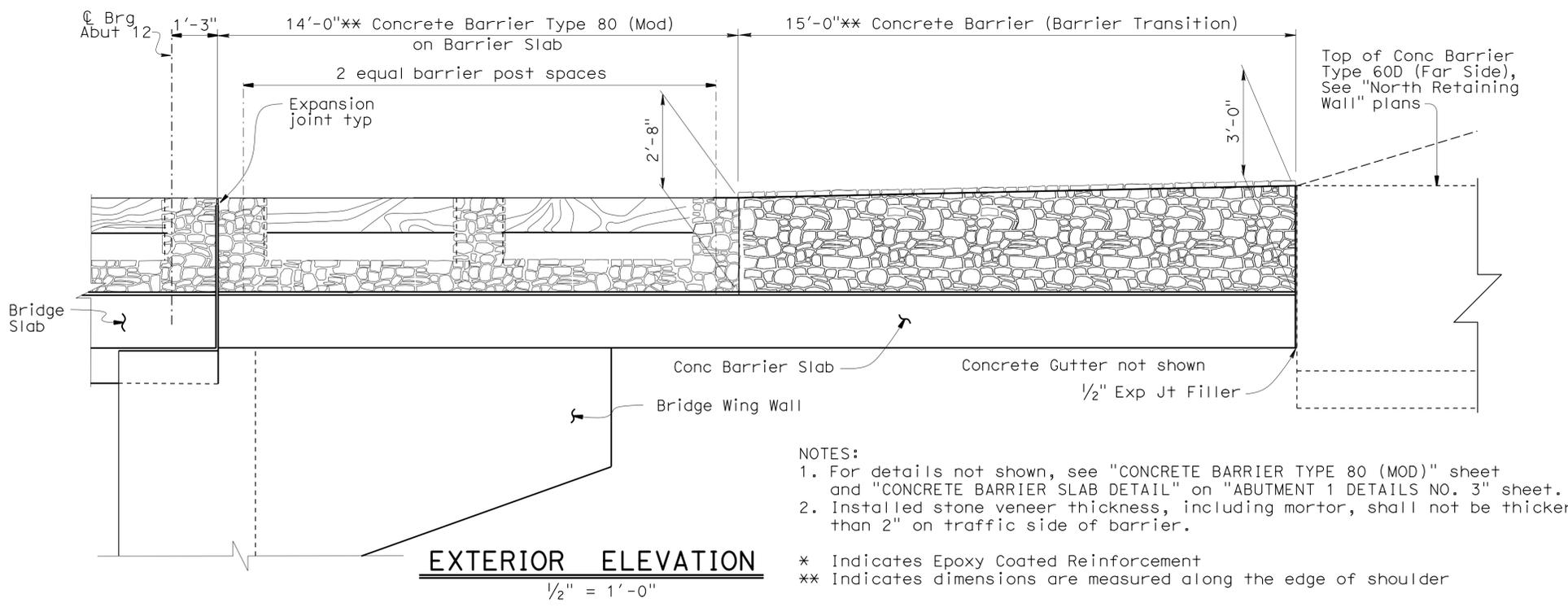
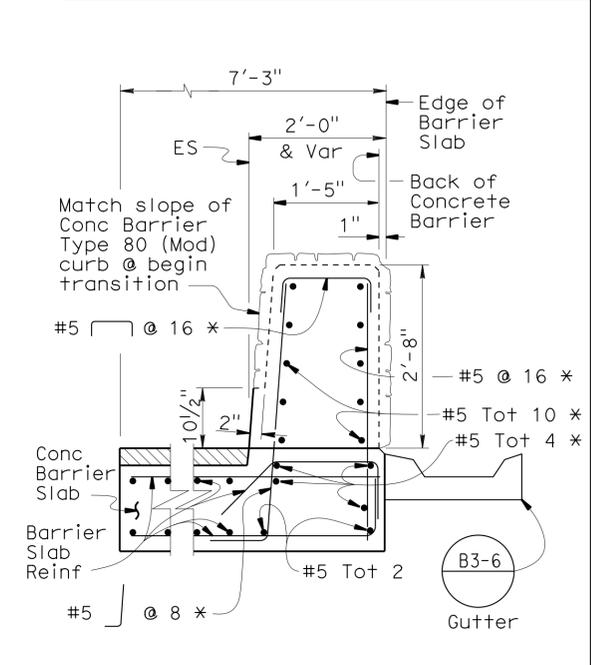
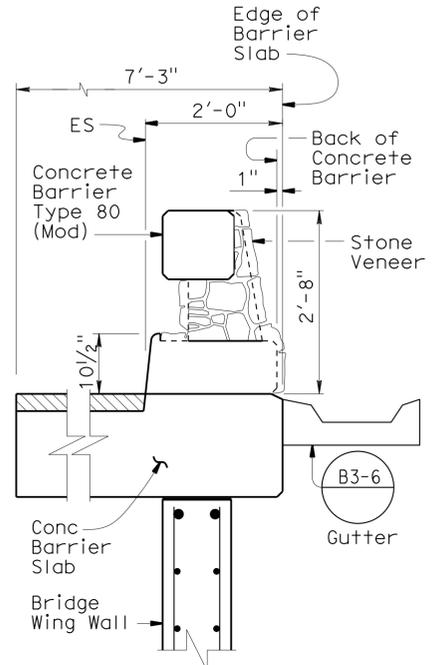
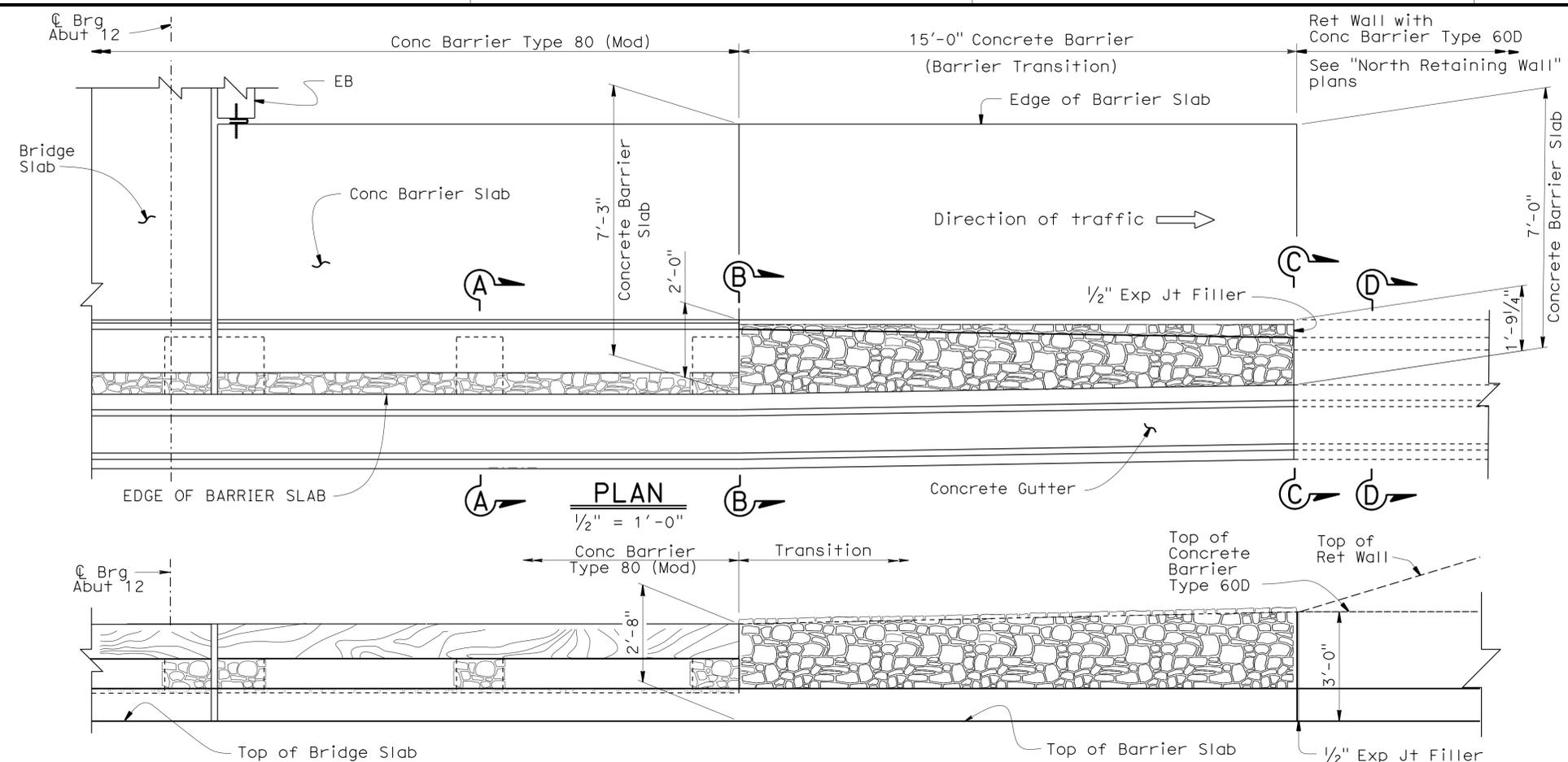
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	01-0080
POST MILE	24.04

MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
SOLDIER PILE WALL DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	105	184

Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE
 Kevin Harper
 No. 42221
 Exp. 3/31/14
 CIVIL
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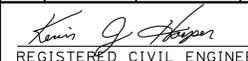


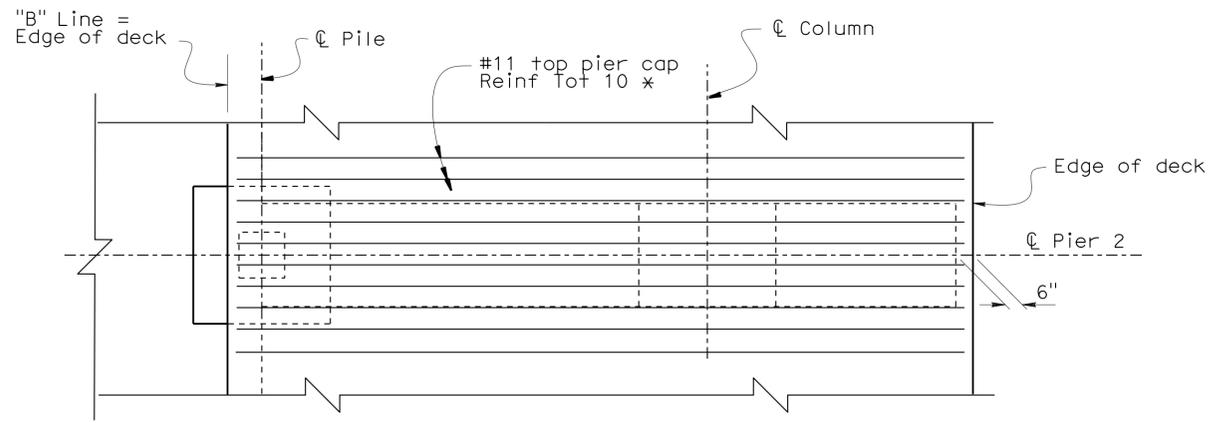
DESIGN	BY Eric Watson	CHECKED Kevin Harper	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO.	MIDDLE FORK SMITH RIVER BRIDGE (REPLACE) BARRIER TRANSITION DETAILS
DETAILS	BY B. Jenko/M. Lane	CHECKED Kevin Harper			01-0080	
QUANTITIES	BY Eric Watson	CHECKED D.Sessions / V.Shostak			24.04	

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS UNIT: 3576 PROJECT NUMBER & PHASE: 01 0000 0371 CONTRACT NO.: 01-479404 DISREGARD PRINTS BEARING EARLIER REVISION DATES

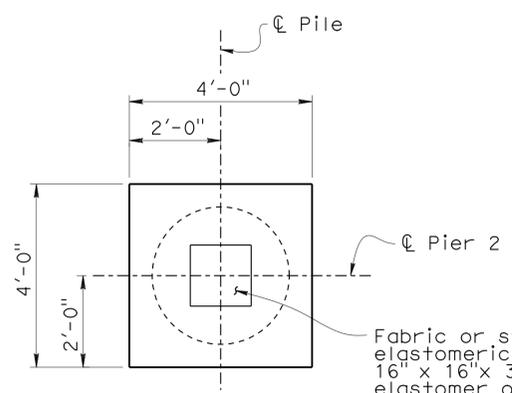
REVISION DATES	SHEET	OF
4-26-12	19	64

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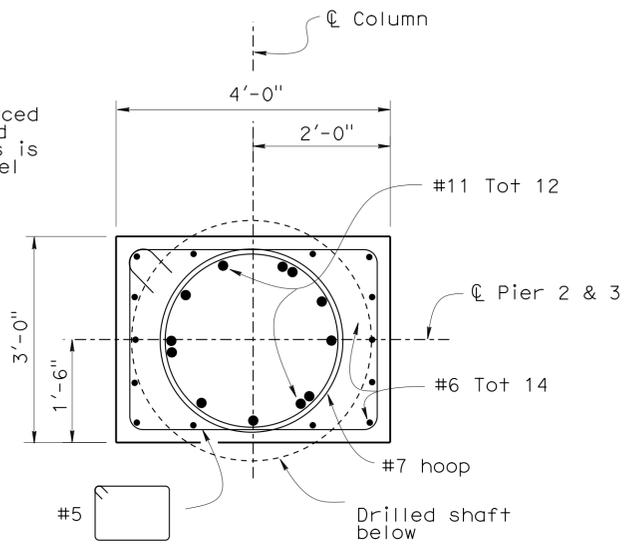
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	106	184
			3/20/13	DATE	
REGISTERED CIVIL ENGINEER			DATE		
6-24-13			PLANS APPROVAL DATE		
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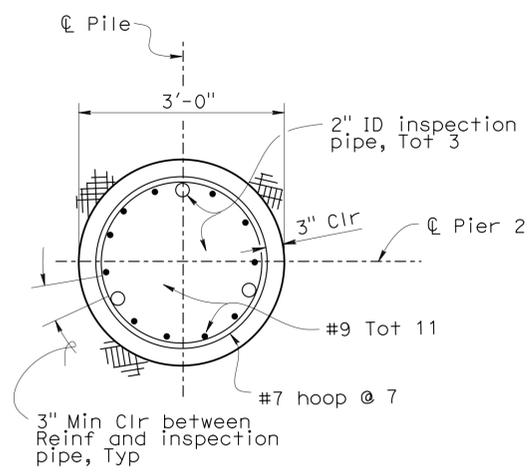
PLAN
3/8" = 1'-0"



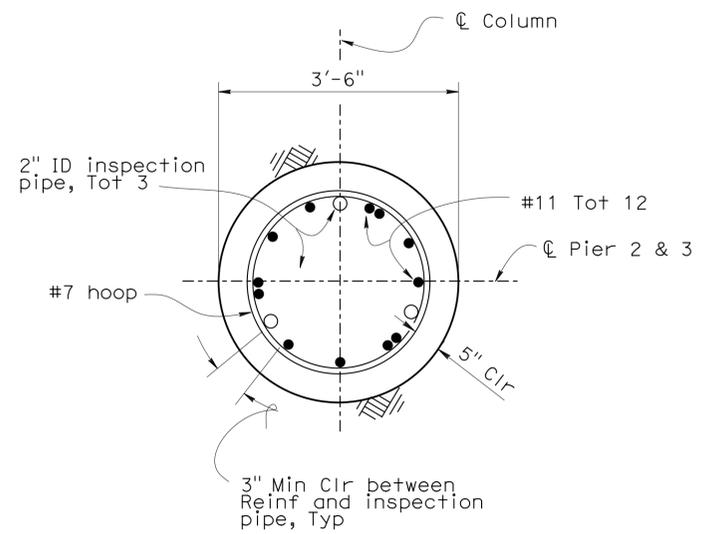
VIEW C-C
1/2" = 1'-0"



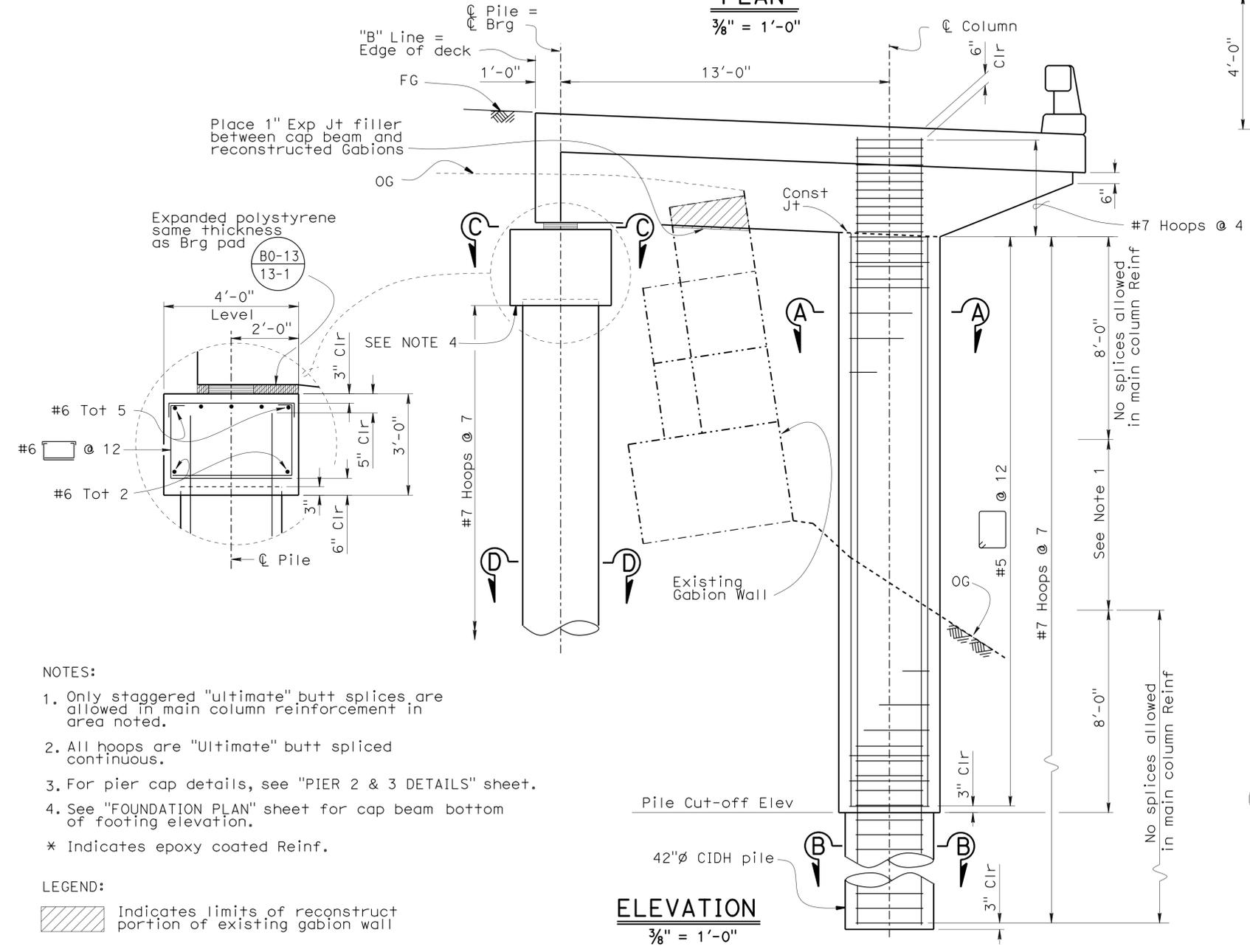
SECTION A-A
1/2" = 1'-0"



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



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



ELEVATION
3/8" = 1'-0"

- NOTES:**
1. Only staggered "ultimate" butt splices are allowed in main column reinforcement in area noted.
 2. All hoops are "Ultimate" butt spliced continuous.
 3. For pier cap details, see "PIER 2 & 3 DETAILS" sheet.
 4. See "FOUNDATION PLAN" sheet for cap beam bottom of footing elevation.
- * Indicates epoxy coated Reinf.

LEGEND:

 Indicates limits of reconstruct portion of existing gabion wall

DESIGN	BY Kevin Harper	CHECKED Kyoung Lee
DETAILS	BY Bruno Jenko	CHECKED Kyoung Lee
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

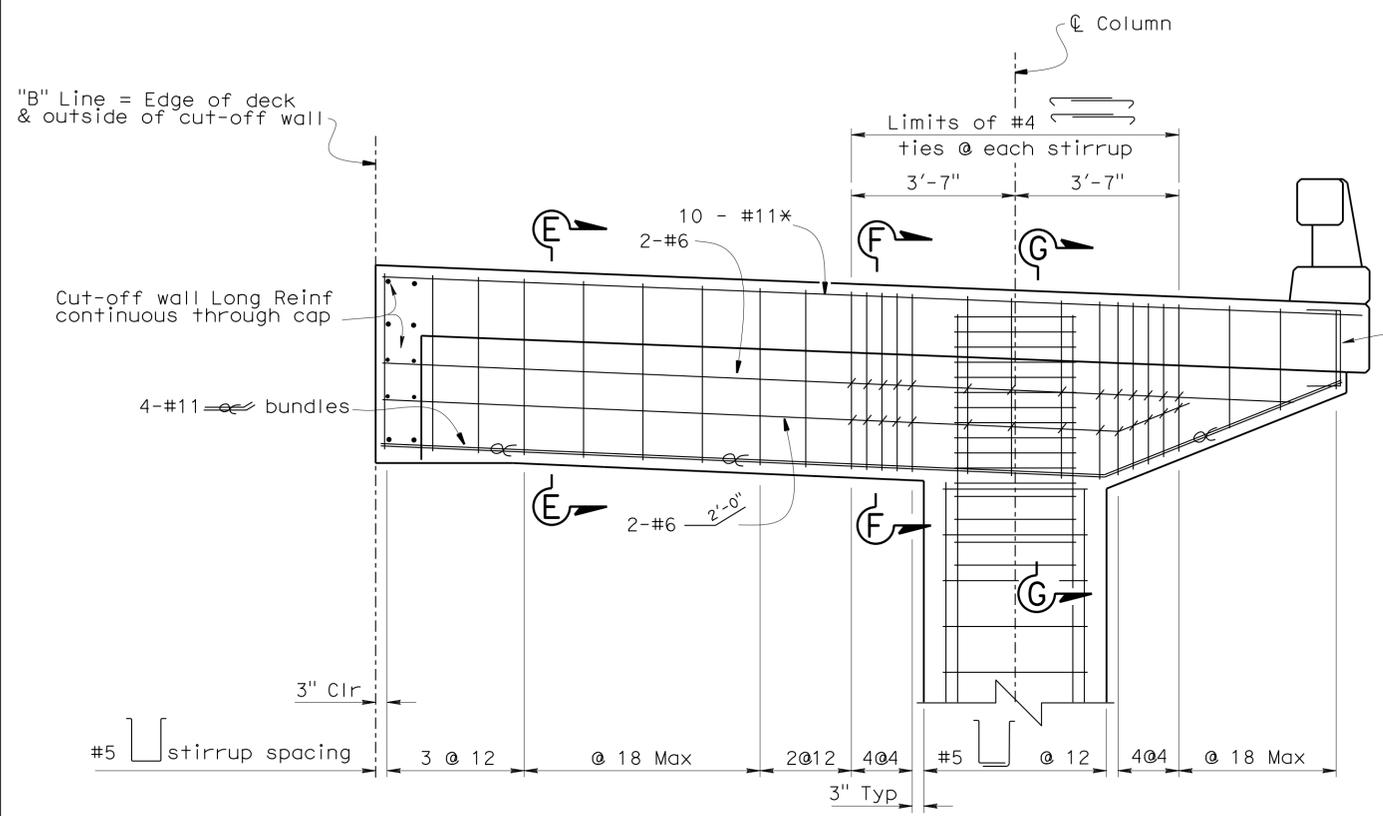
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	01-0080
POST MILE	24.04

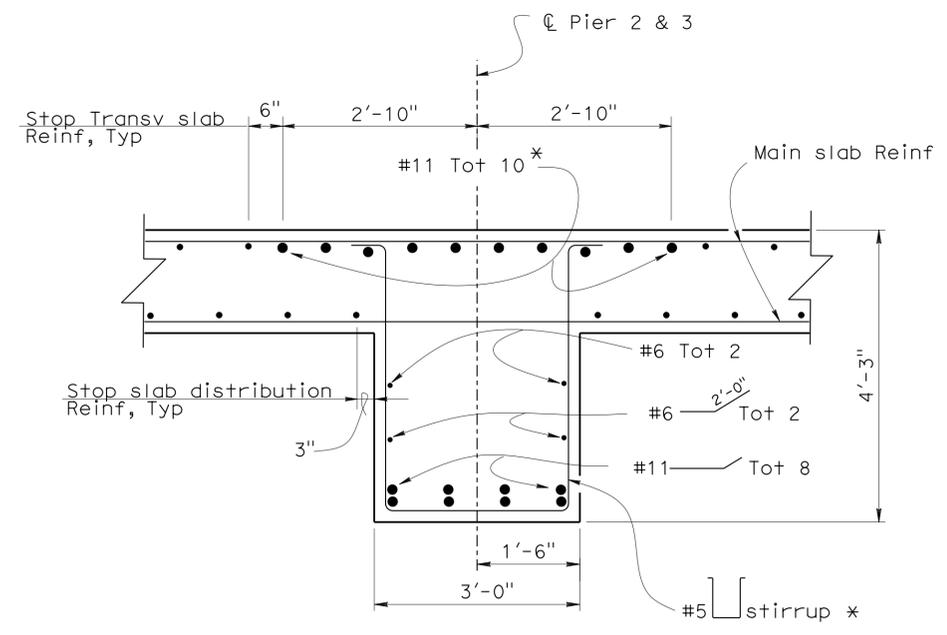
MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
PIER 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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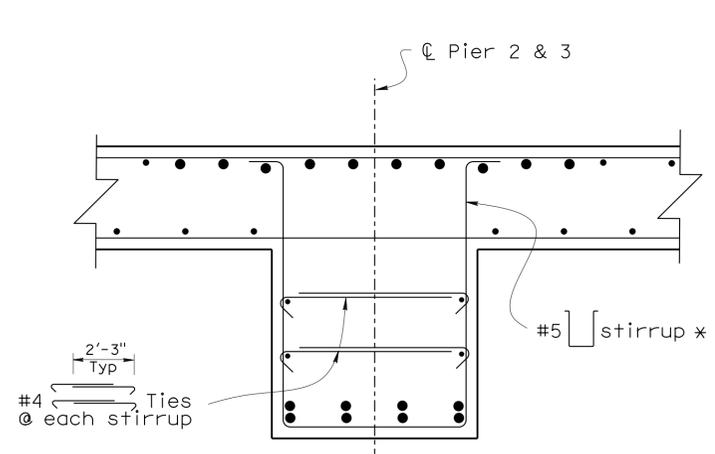
Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE
 No. 42221
 Exp. 3/31/14
 CIVIL
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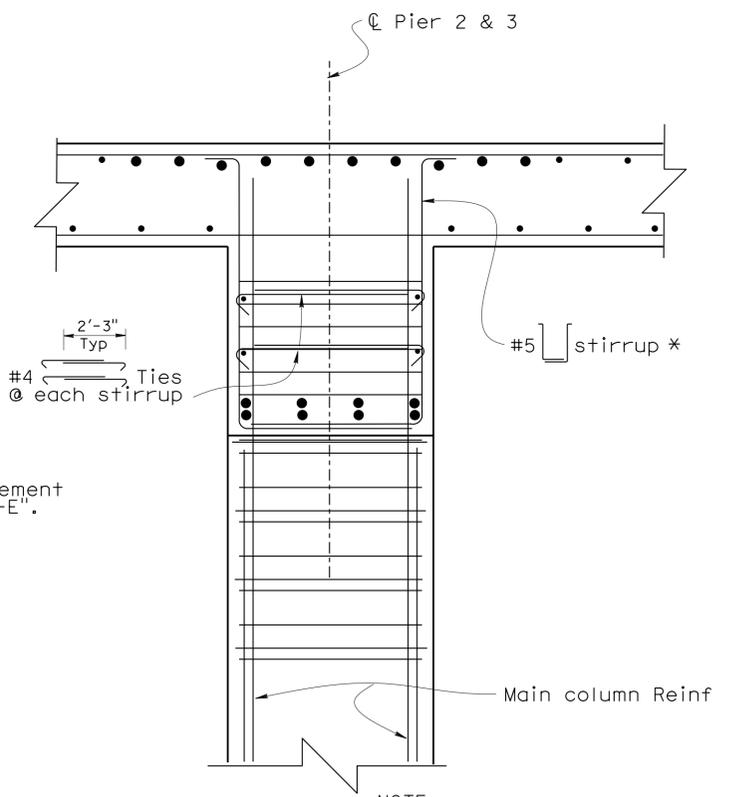
PART ELEVATION
1/2"=1'-0"



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



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



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

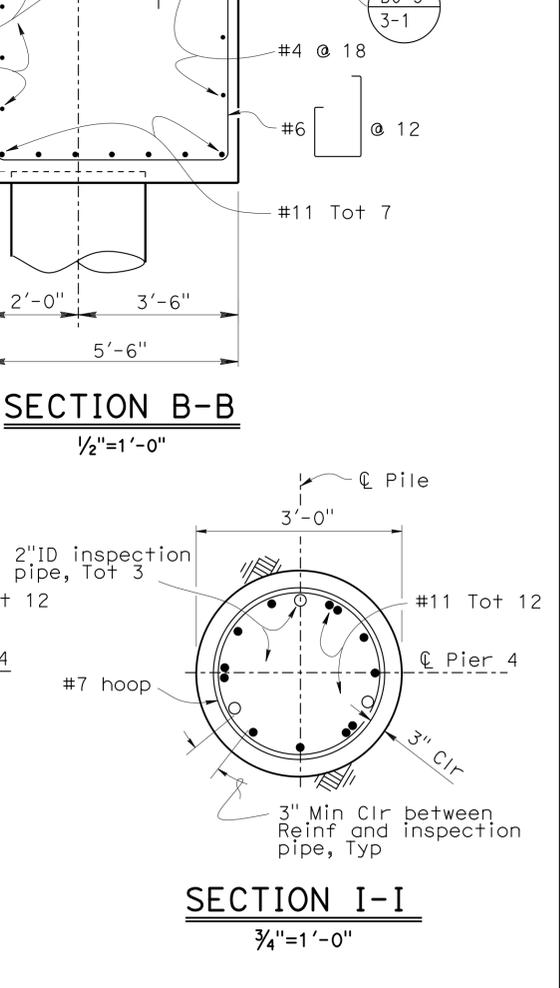
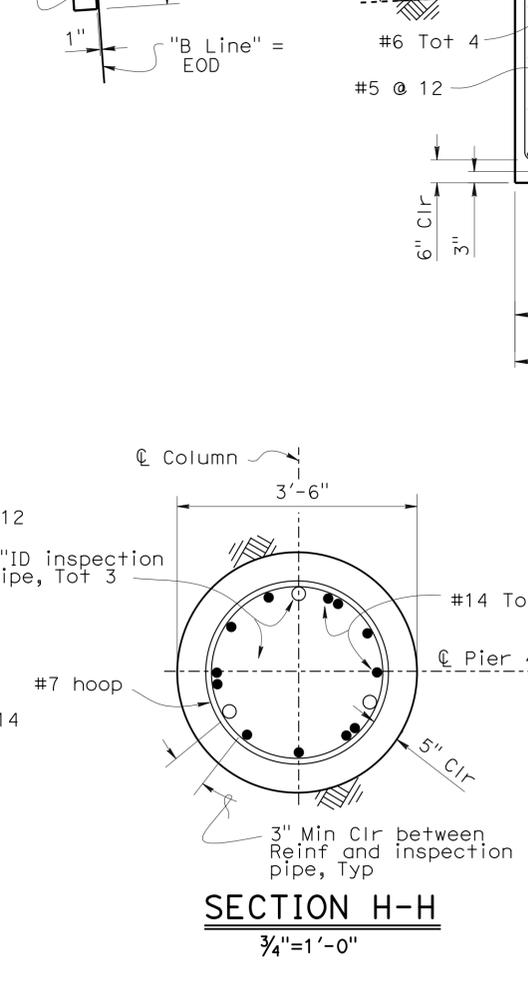
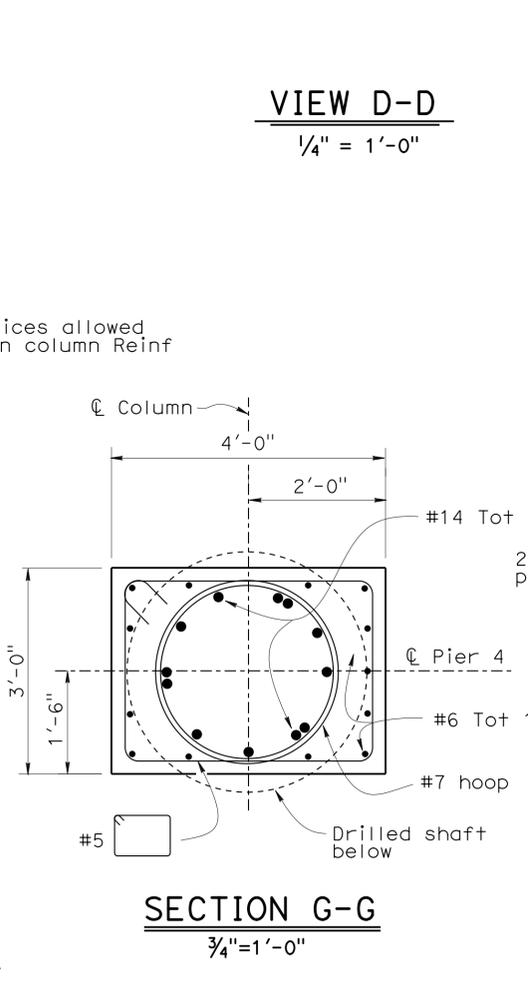
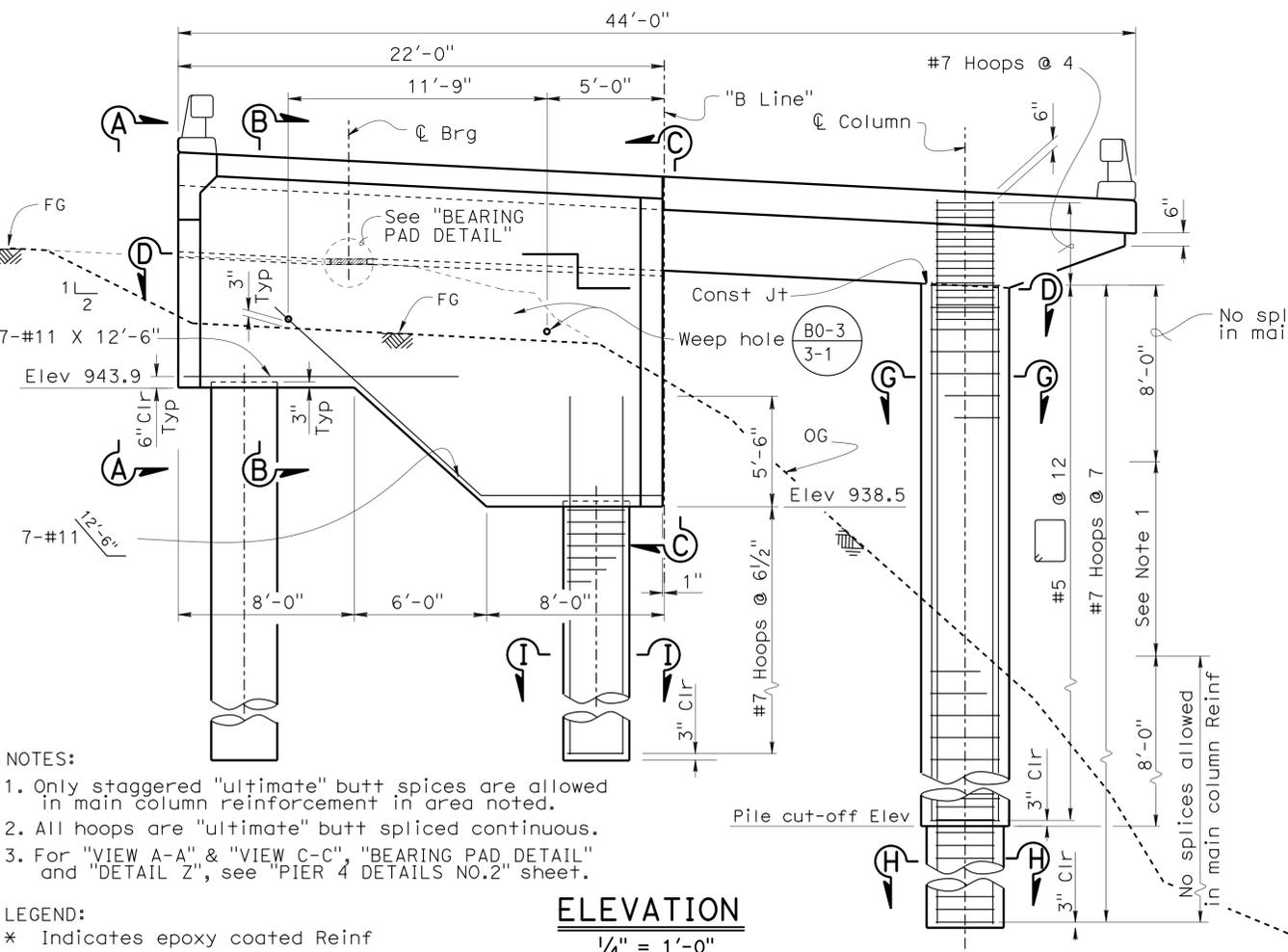
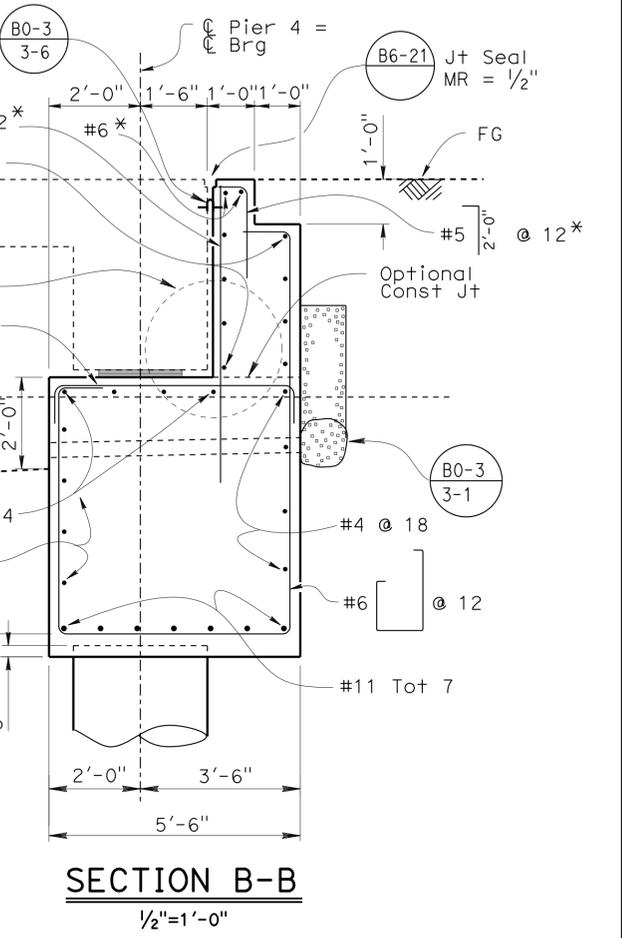
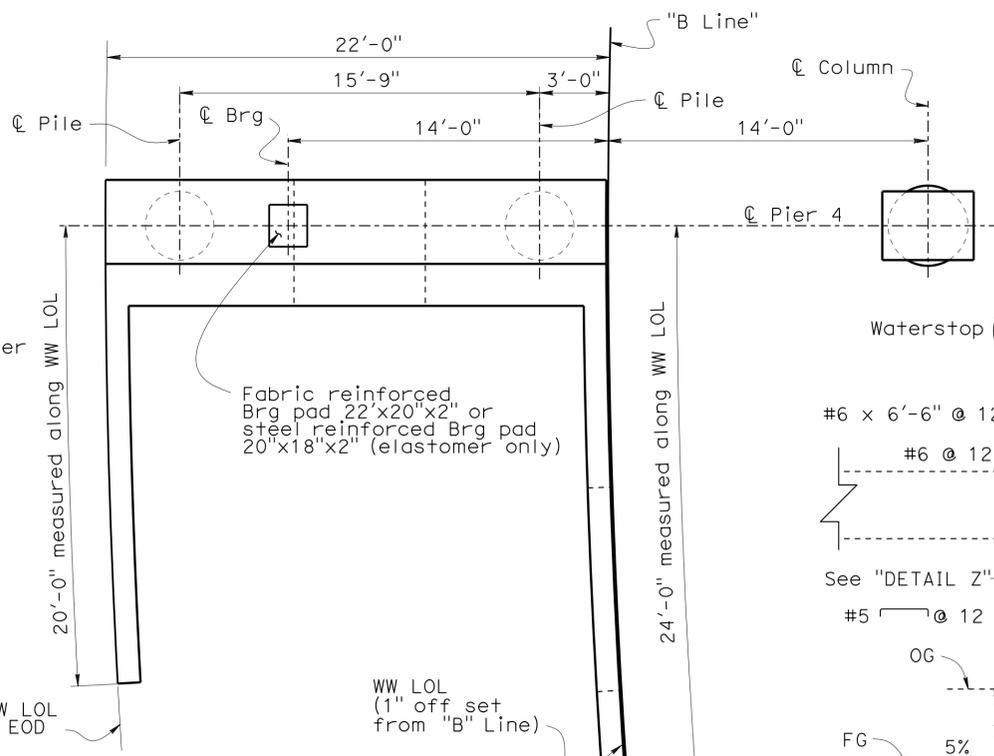
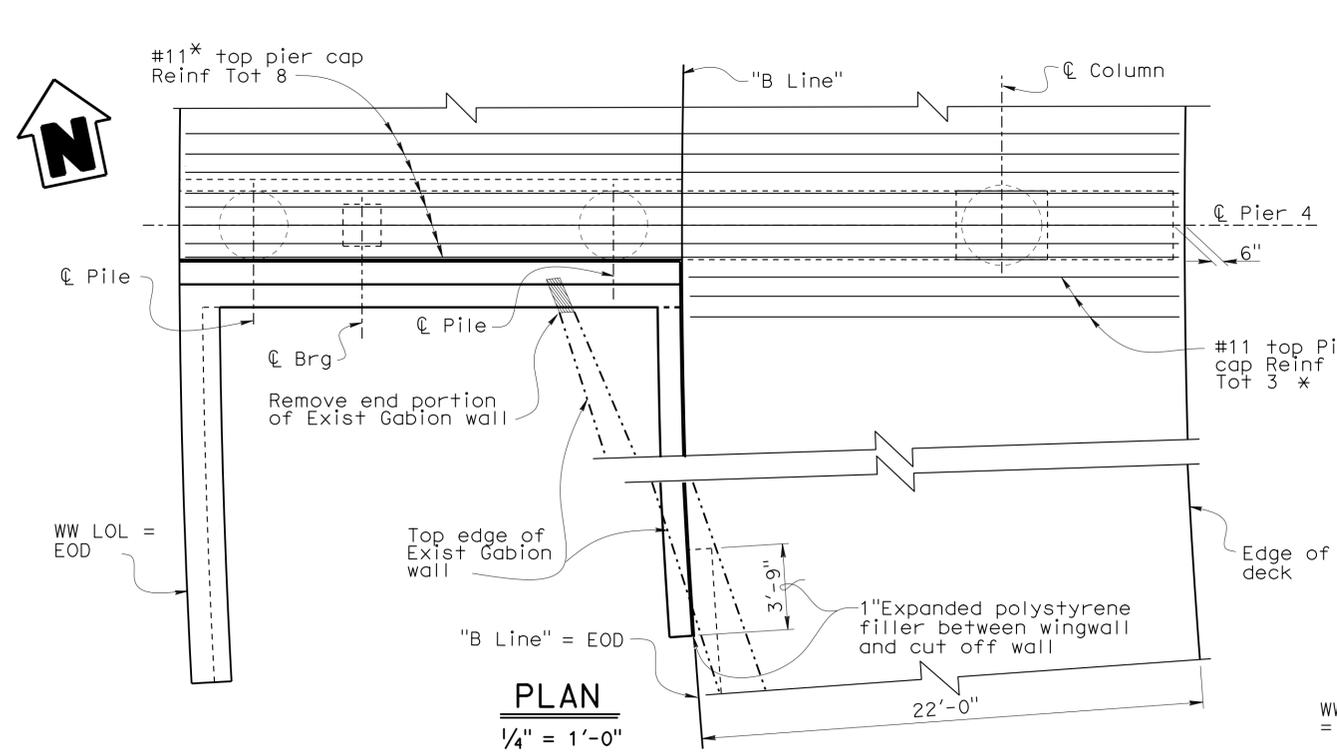
LEGEND:
 ⊕ - Indicates bundled bars
 * - Indicates epoxy coated Reinf

NOTE:
 For details and reinforcement not shown, see "SECTION E-E".

NOTE:
 For details and reinforcement not shown, see "SECTION E-E".

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Kevin Harper	CHECKED Kyoung Lee	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO.	01-0080	MIDDLE FORK SMITH RIVER BRIDGE (REPLACE) PIER 2 & 3 DETAILS	
	DETAILS	BY Bruno Jenko	CHECKED Kyoung Lee			POST MILE	24.04		
	QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak			UNIT: 3576	PROJECT NUMBER & PHASE: 01 0000 03711		CONTRACT NO.: 01-479404
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 2-18-12 01/08/13 1-30-13	SHEET 22 OF 64

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	109	184
 REGISTERED CIVIL ENGINEER DATE 3/20/13					
PLANS APPROVAL DATE 6-24-13					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

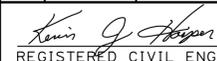


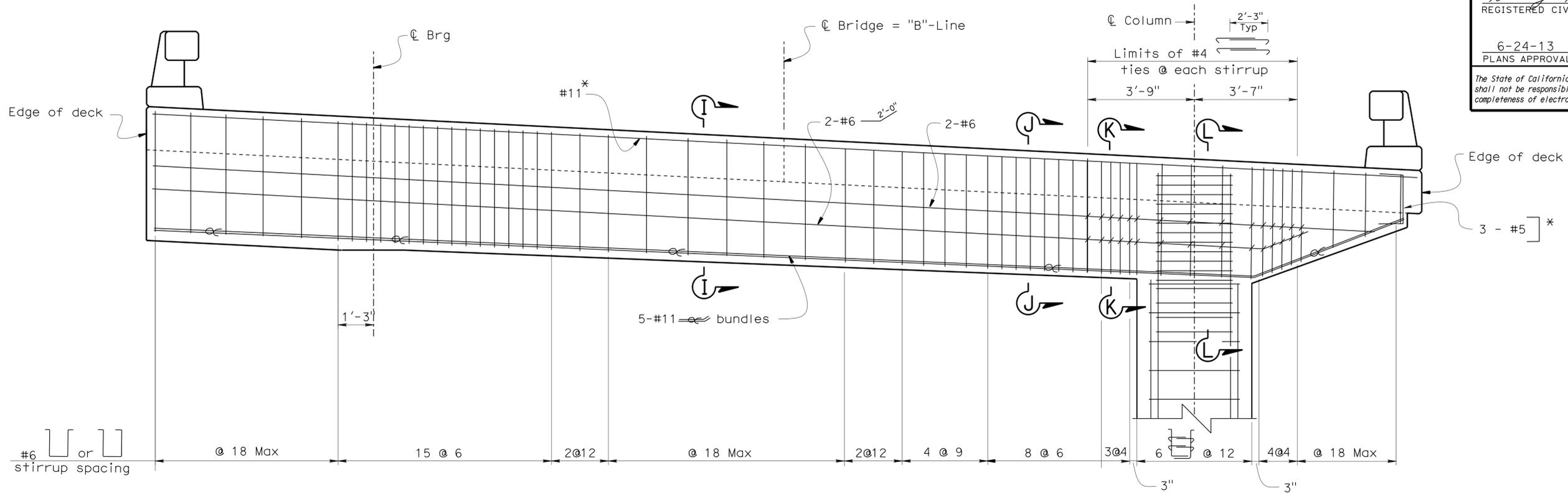
- NOTES:
1. Only staggered "ultimate" butt splices are allowed in main column reinforcement in area noted.
 2. All hoops are "ultimate" butt spliced continuous.
 3. For "VIEW A-A" & "VIEW C-C", "BEARING PAD DETAIL" and "DETAIL Z", see "PIER 4 DETAILS NO.2" sheet.

LEGEND:
 * Indicates epoxy coated Reinf

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

DESIGN	BY Kevin Harper	CHECKED Kyoung Lee	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO.	MIDDLE FORK SMITH RIVER BRIDGE (REPLACE) PIER 4
DETAILS	BY Bruno Jenko	CHECKED Kyoung Lee			01-0080	
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak			24.04	

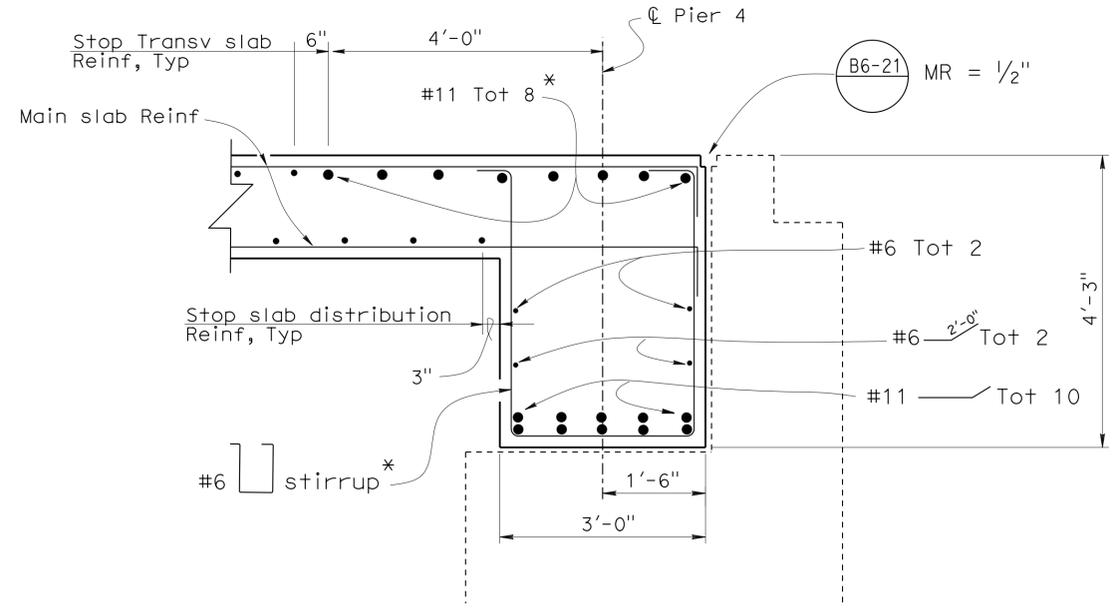
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	110	184
			3/20/13		
REGISTERED CIVIL ENGINEER			DATE		
6-24-13			PLANS APPROVAL DATE		
					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



PART ELEVATION
1/2"-1'-0"

NOTES:
1. For "SECTION J-J", "SECTION K-K" & "SECTION L-L", see "PIER 6 & 11 DETAILS" sheet.

LEGEND:
 - Indicates bundled bars
 * - Indicates epoxy coated Reinf



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

DESIGN	BY Kevin Harper	CHECKED Kyoung Lee
DETAILS	BY Bruno Jenko	CHECKED Kyoung Lee
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

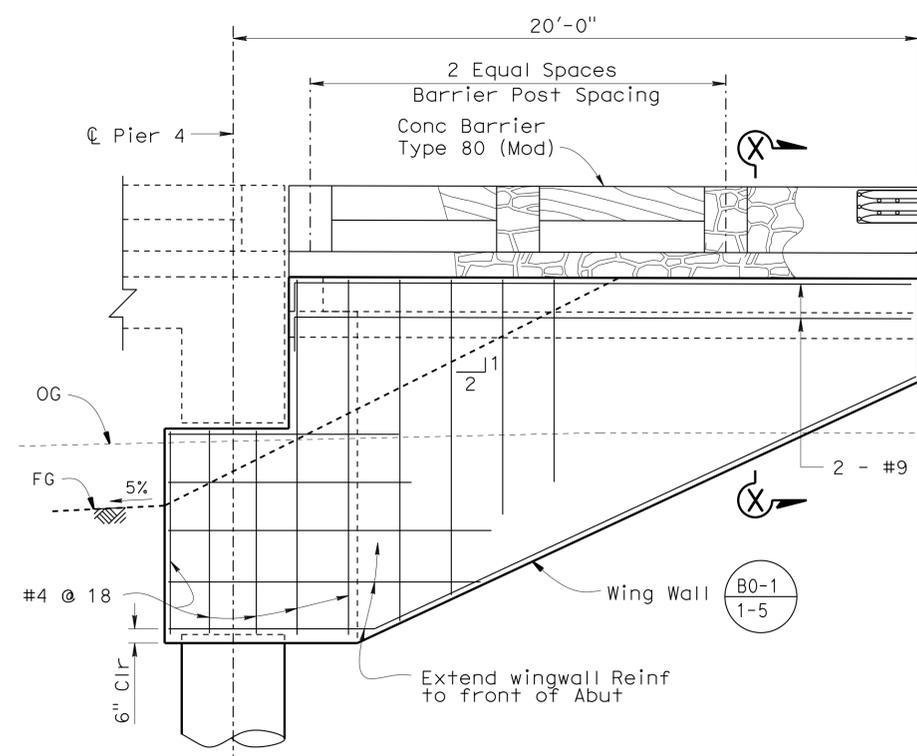
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	01-0080
POST MILE	24.04

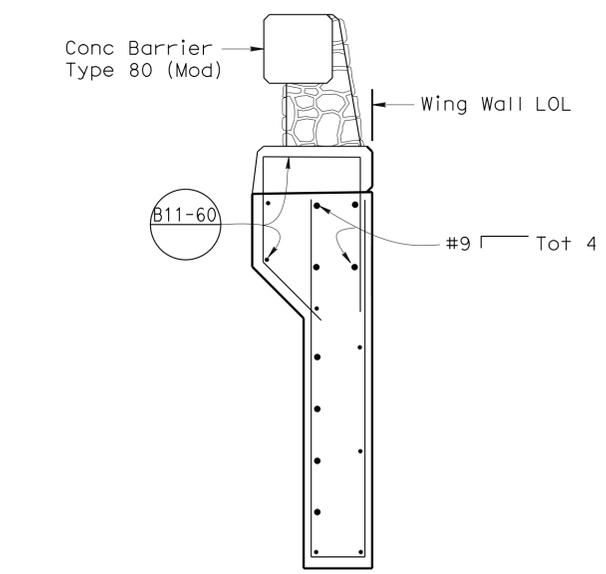
MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
PIER 4 DETAILS NO. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	111	184

Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE
 Kevin Harper
 No. 42221
 Exp. 3/31/14
 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.

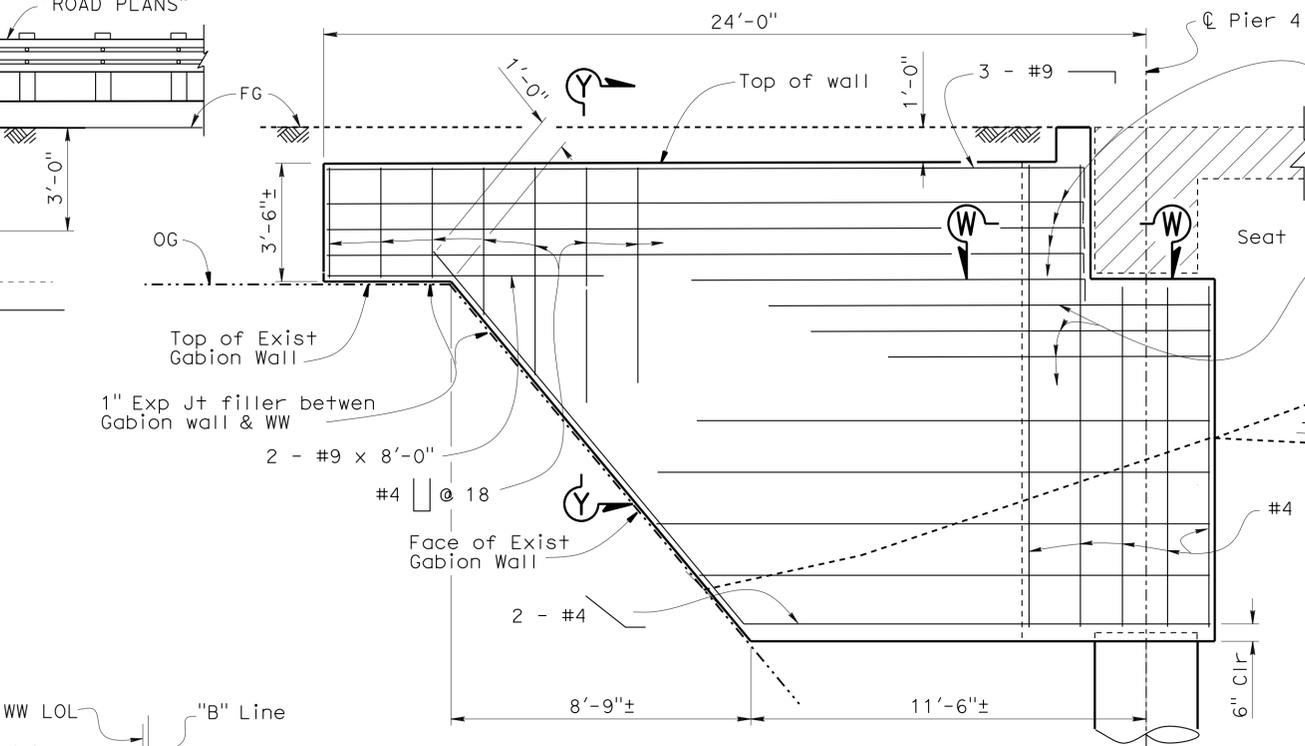


VIEW A-A
3/8" = 1'-0"

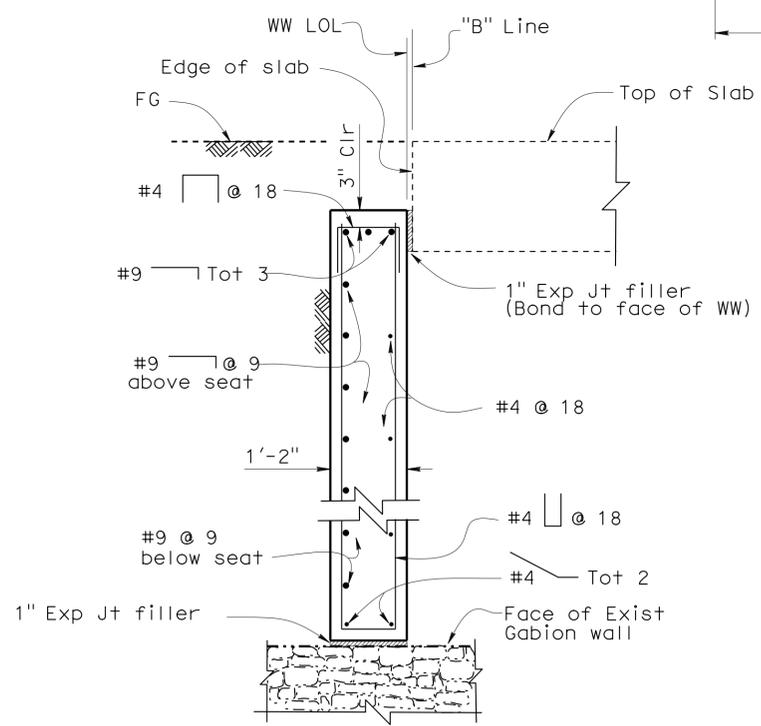


SECTION X-X
3/4" = 1'-0"

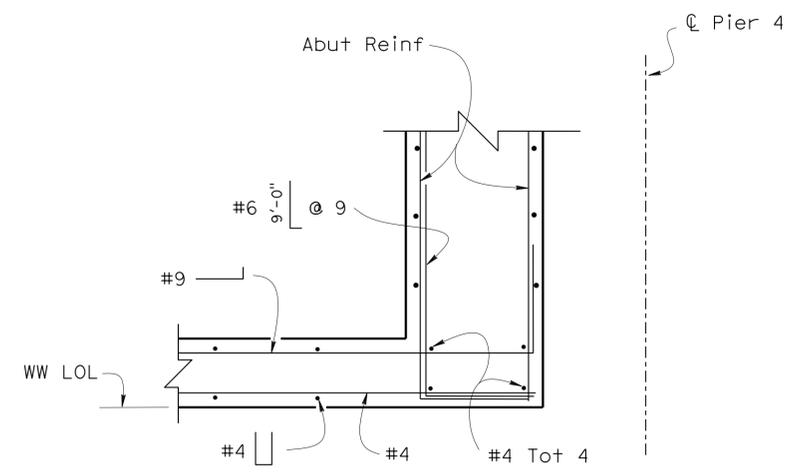
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



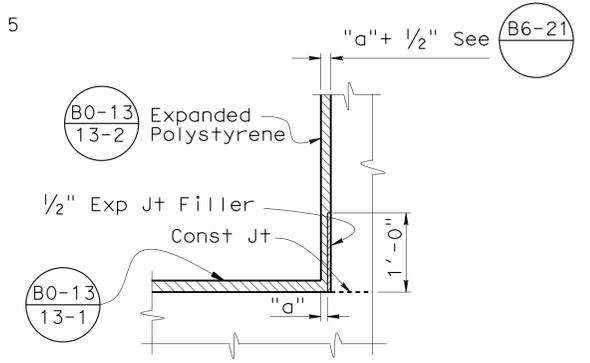
VIEW C-C
3/8" = 1'-0"



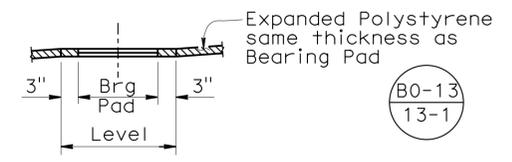
SECTION Y-Y
3/4" = 1'-0"



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



DETAIL Z
No Scale



BEARING PAD DETAIL
No Scale

NOTE:
For location of "DETAIL Z", "VIEW A-A" and "VIEW C-C", see "PIER 4" sheet.

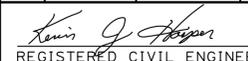
DESIGN	BY Kevin Harper	CHECKED Kyoung Lee
DETAILS	BY Bruno Jenko	CHECKED Kyoung Lee
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak

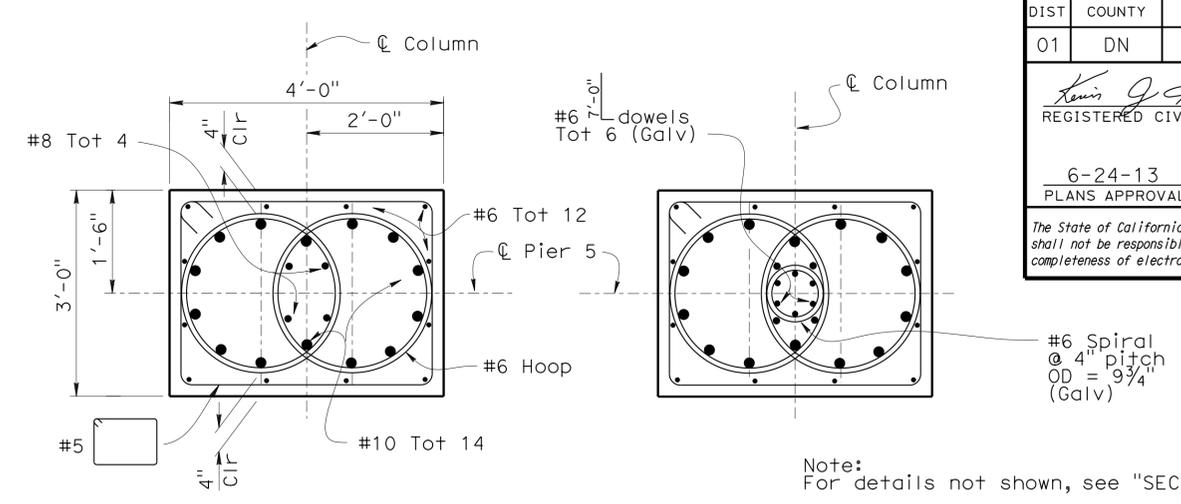
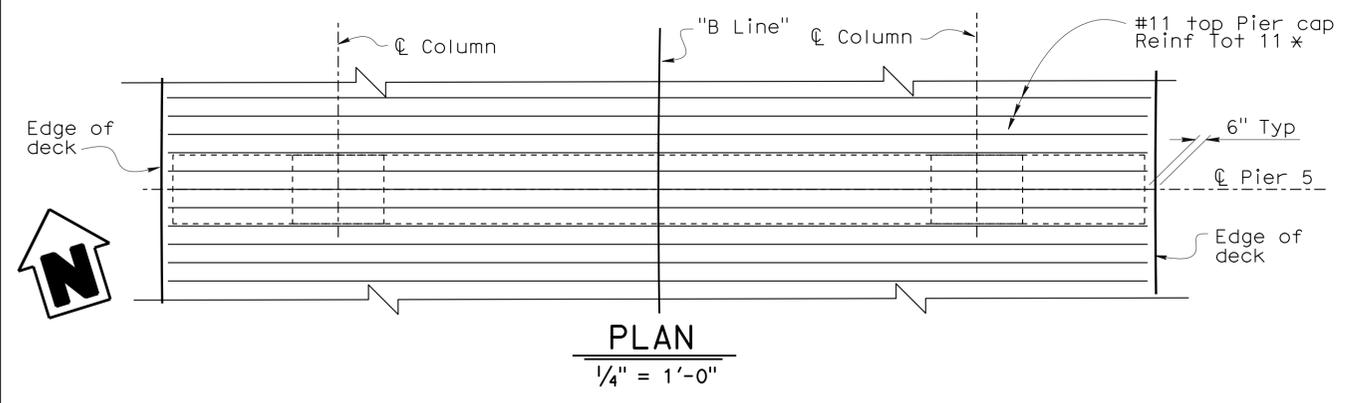
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

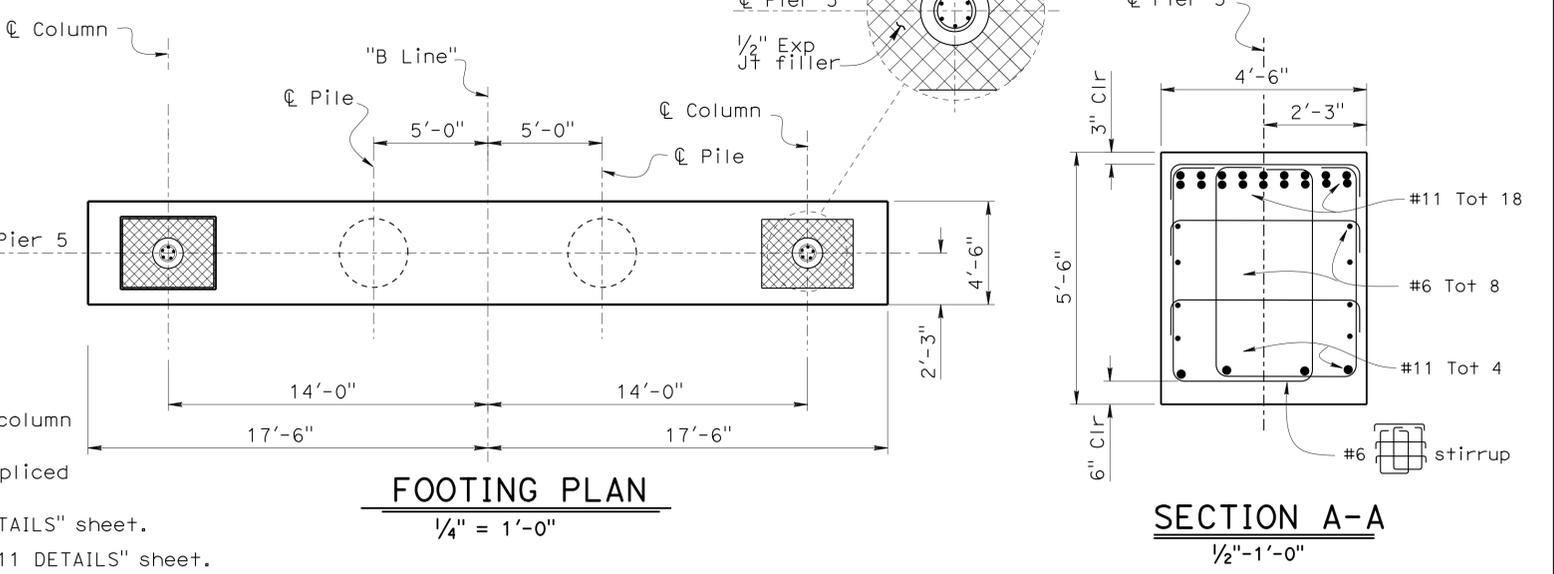
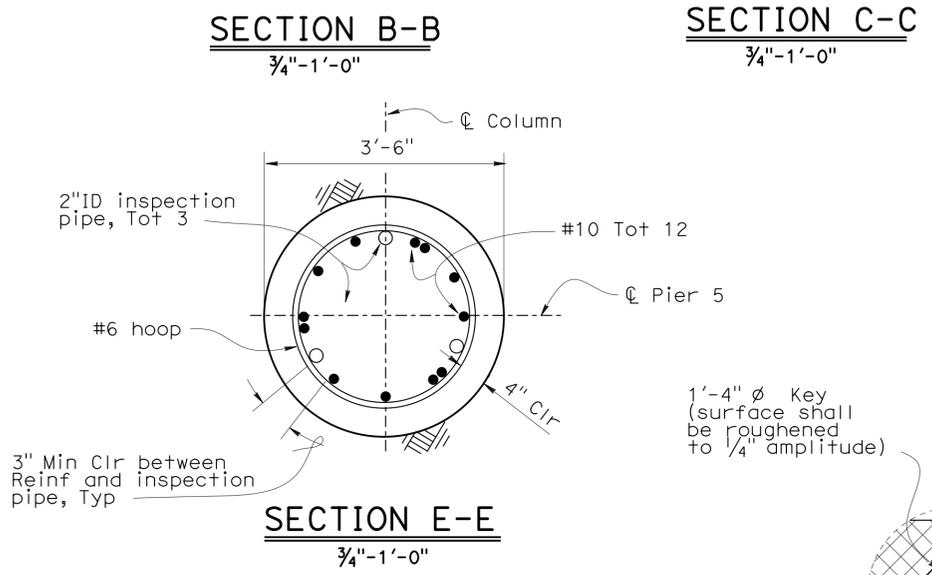
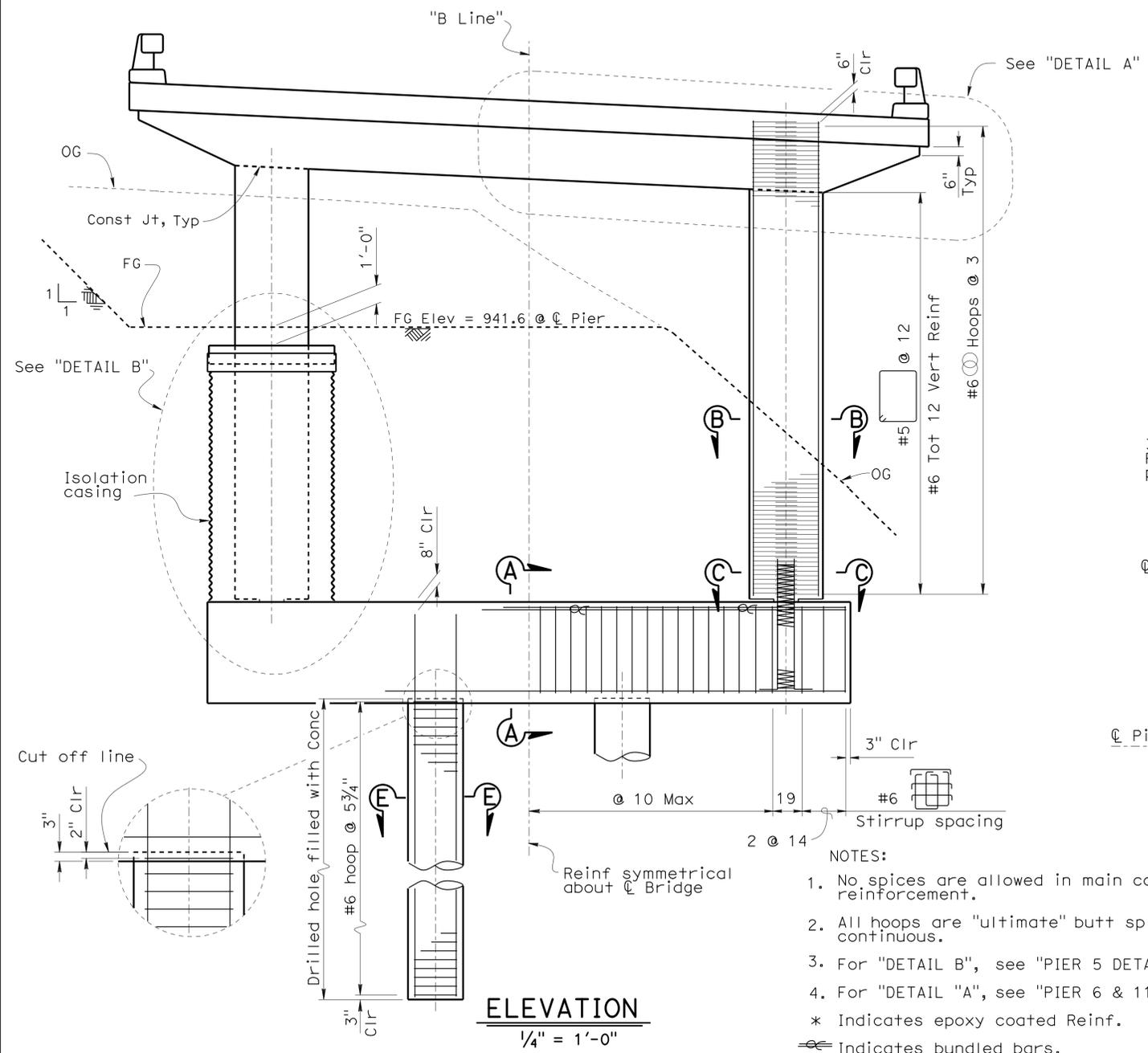
BRIDGE NO.	01-0080
POST MILE	24.04

MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
PIER 4 DETAILS NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	112	184
			3/20/13	DATE	
REGISTERED CIVIL ENGINEER			PLANS APPROVAL DATE		
6-24-13			No. 42221 Exp. 3/31/14 CIVIL		
<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>					

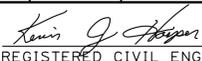


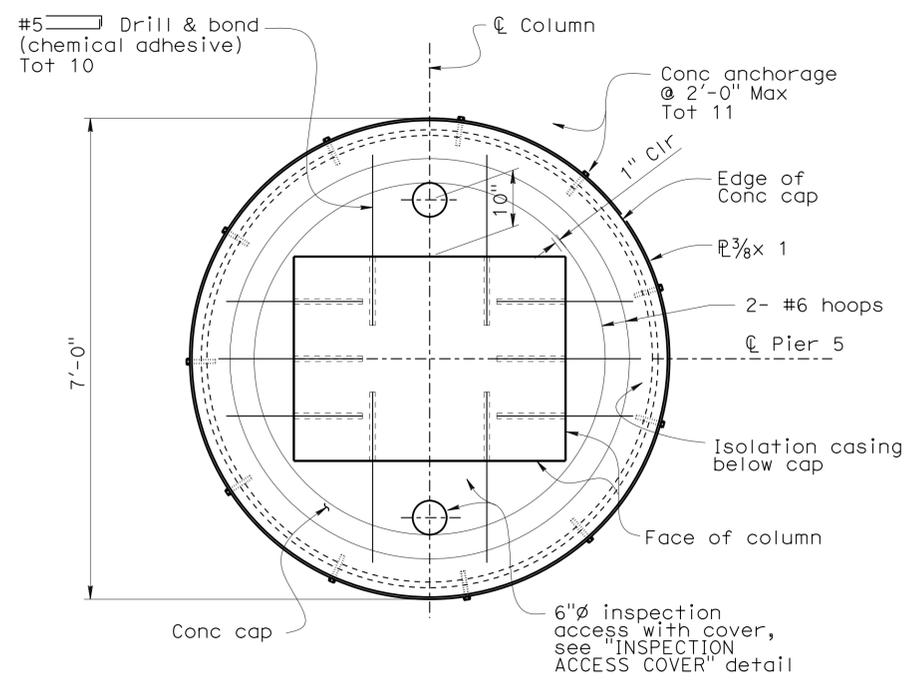
Note:
For details not shown, see "SECTION A-A"



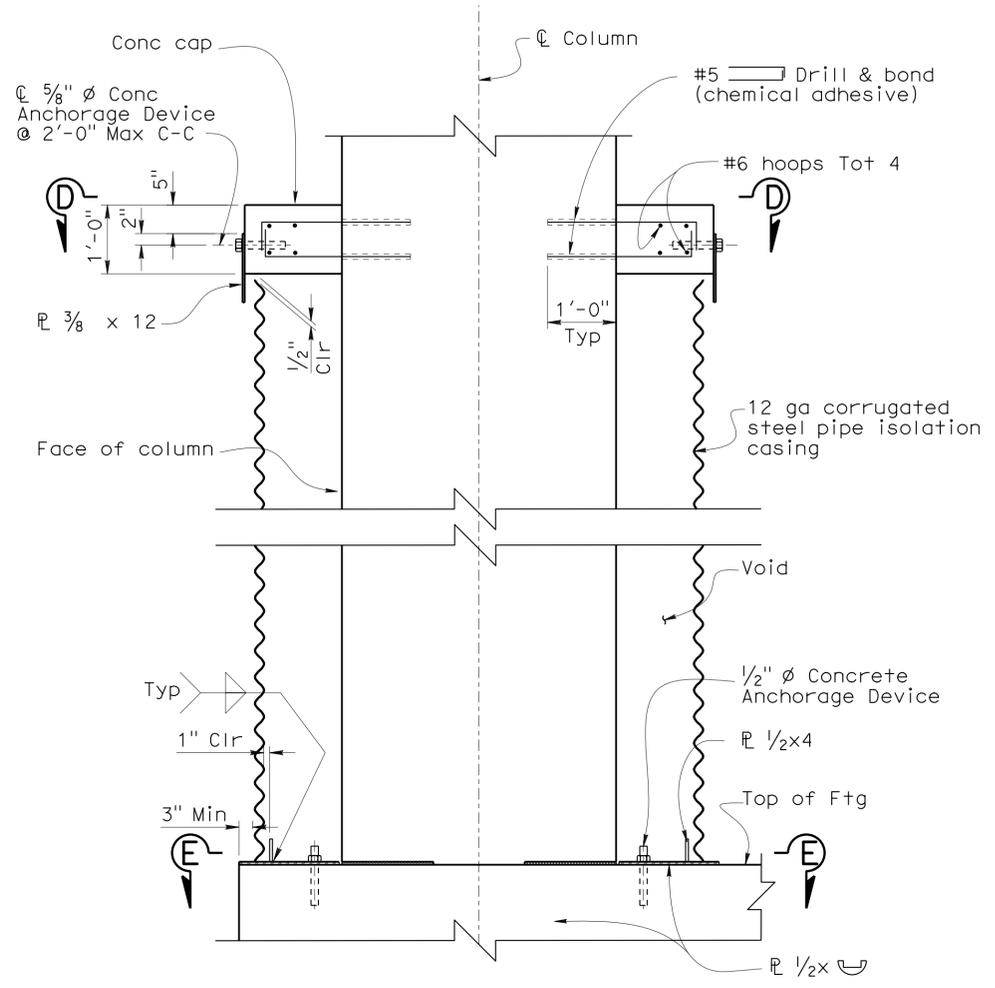
- NOTES:
1. No splices are allowed in main column reinforcement.
 2. All hoops are "ultimate" butt spliced continuous.
 3. For "DETAIL B", see "PIER 5 DETAILS" sheet.
 4. For "DETAIL A", see "PIER 6 & 11 DETAILS" sheet.
- * Indicates epoxy coated Reinf.
 ⊕ Indicates bundled bars.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Kevin Harper	CHECKED Kyoung Lee	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO.	01-0080	MIDDLE FORK SMITH RIVER BRIDGE (REPLACE) PIER 5	
	DETAILS	BY Bruno Jenko	CHECKED Kyoung Lee			POST MILE	24.04		
	QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak			CONTRACT NO.:	01-479404		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3576 PROJECT NUMBER & PHASE: 01 0000 03711		CONTRACT NO.: 01-479404		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
				0 1 2 3		REVISION DATES: 2-17-12, 3-18-13, 1-20-13		SHEET 26 OF 64	

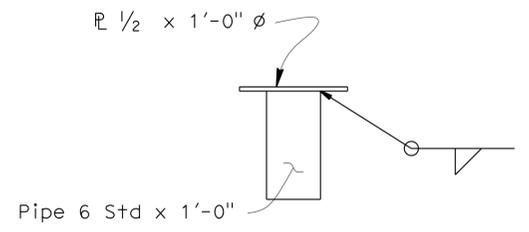
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	113	184
			3/20/13	DATE	
REGISTERED CIVIL ENGINEER			DATE		
6-24-13			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



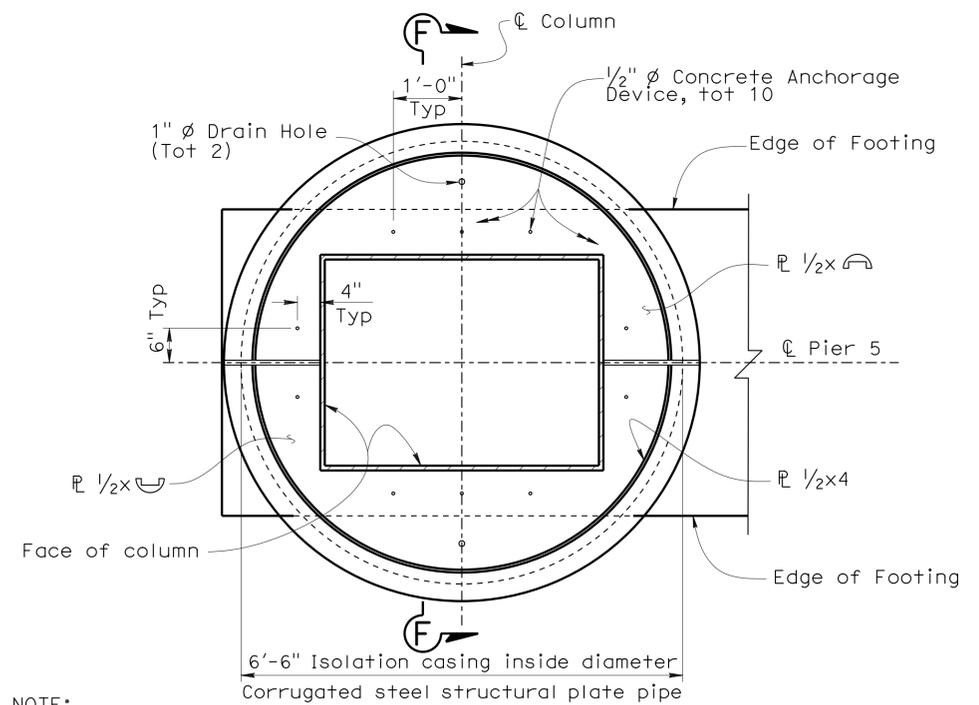
VIEW D-D
3/4" = 1'-0"



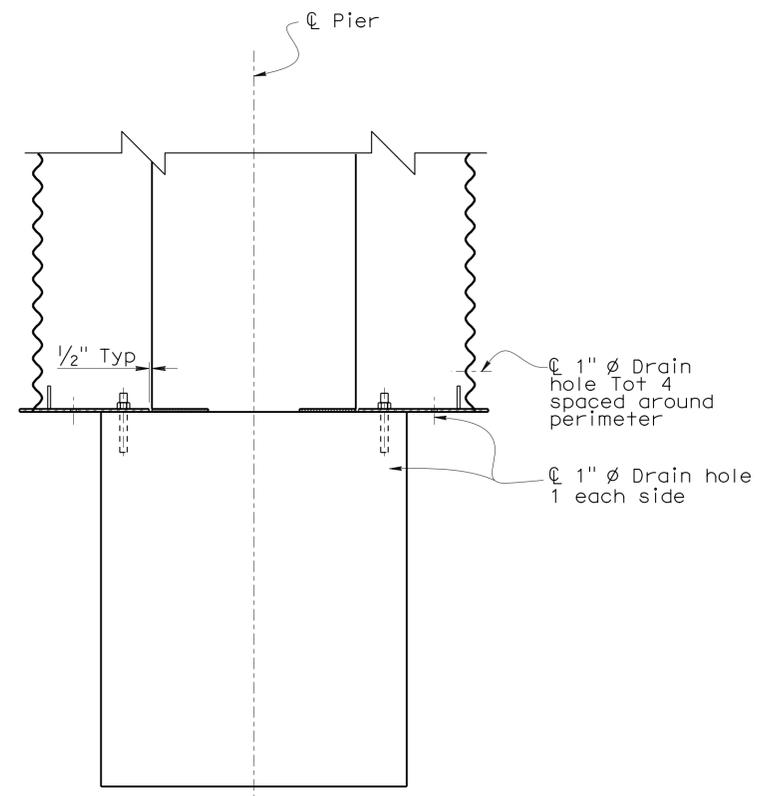
DETAIL B
3/4" = 1'-0"



INSPECTION ACCESS COVER
No scale



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



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

NOTE:
For column dimensions and reinforcement, see "SECTION B-B" on "PIER 5" sheet.

NOTE:
For details shown but not note see "DETAIL B"

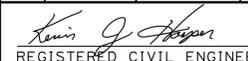
DESIGN	BY Kevin Harper	CHECKED Kyoung Lee
DETAILS	BY Bruno Jenko	CHECKED Kyoung Lee
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak

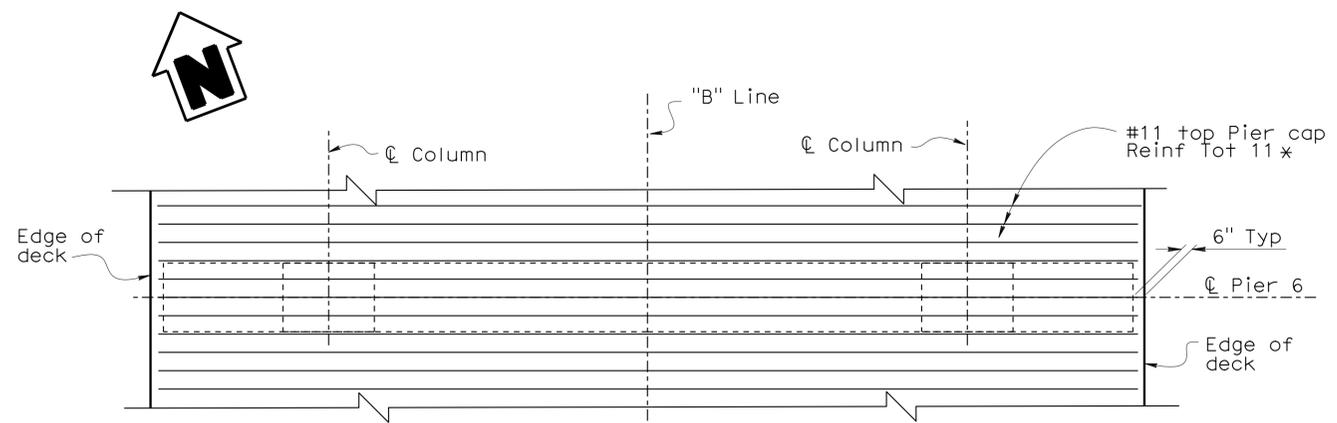
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

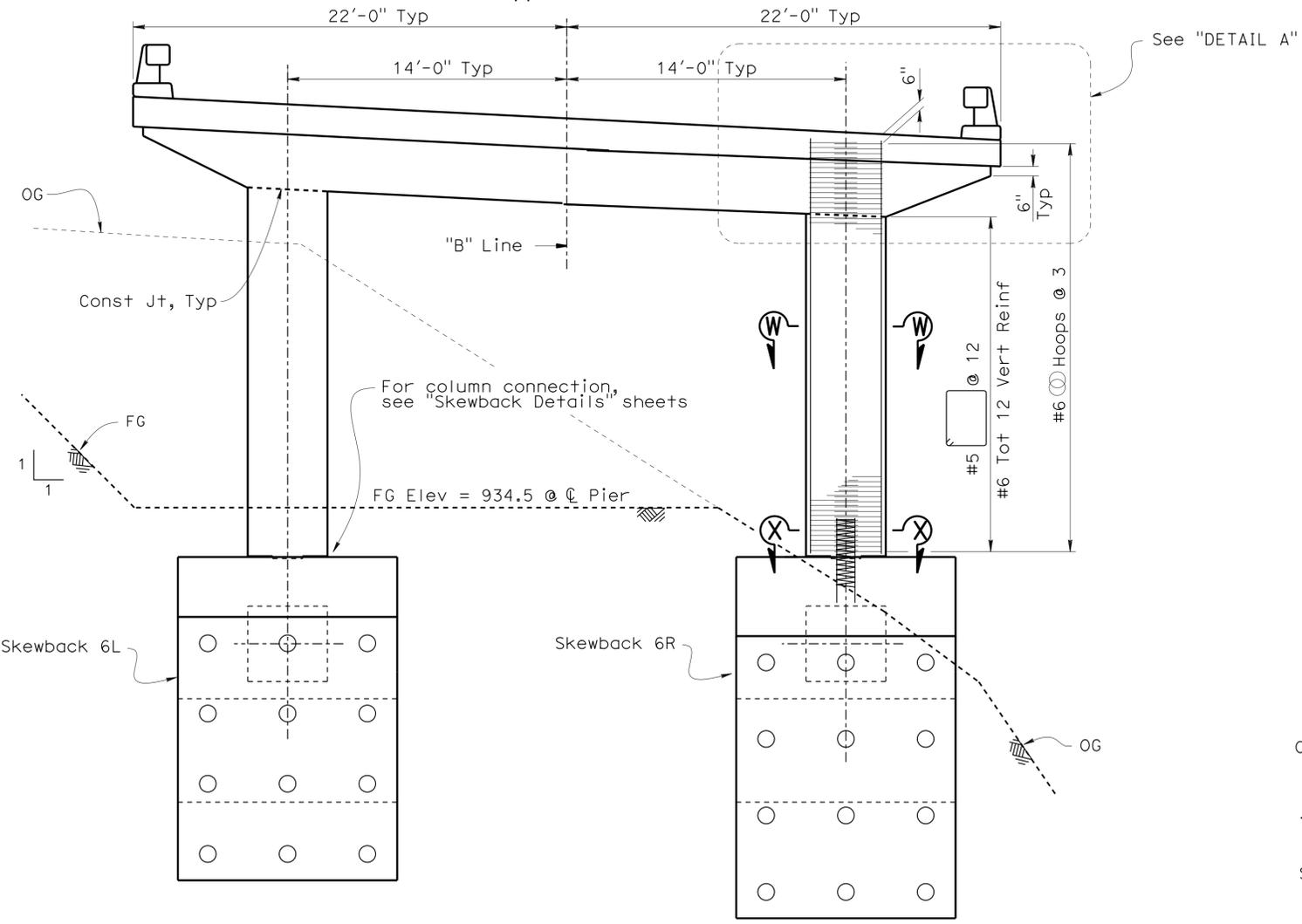
BRIDGE NO.	01-0080
POST MILE	24.04

MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
PIER 5 DETAILS

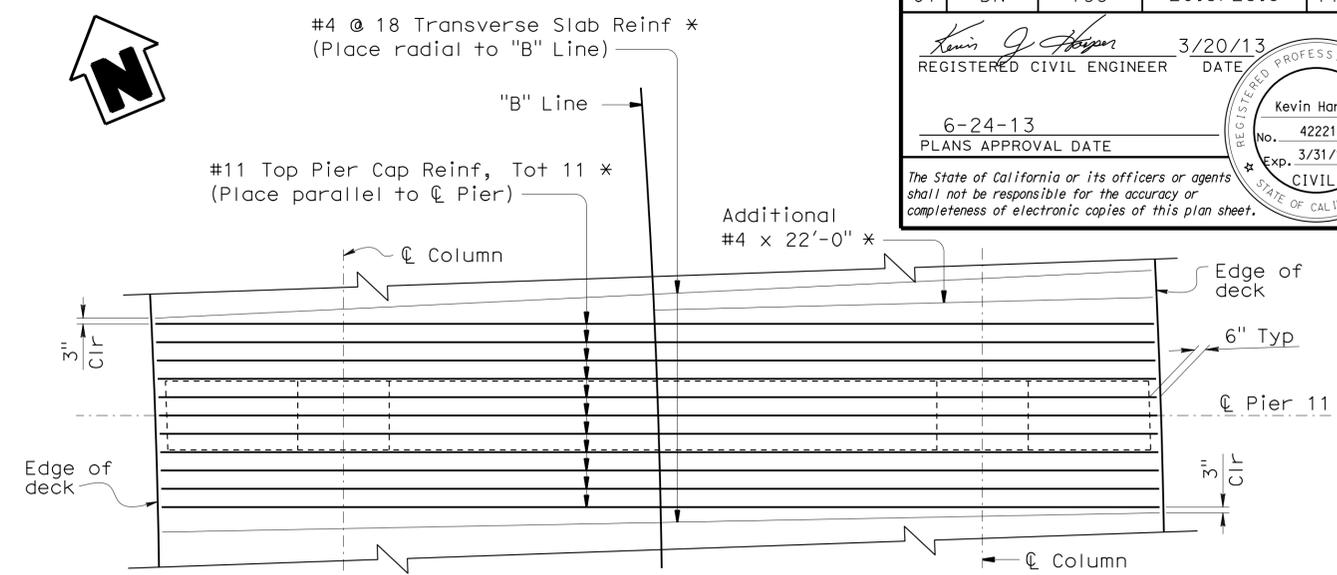
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	114	184
 REGISTERED CIVIL ENGINEER DATE 3/20/13					
PLANS APPROVAL DATE 6-24-13					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



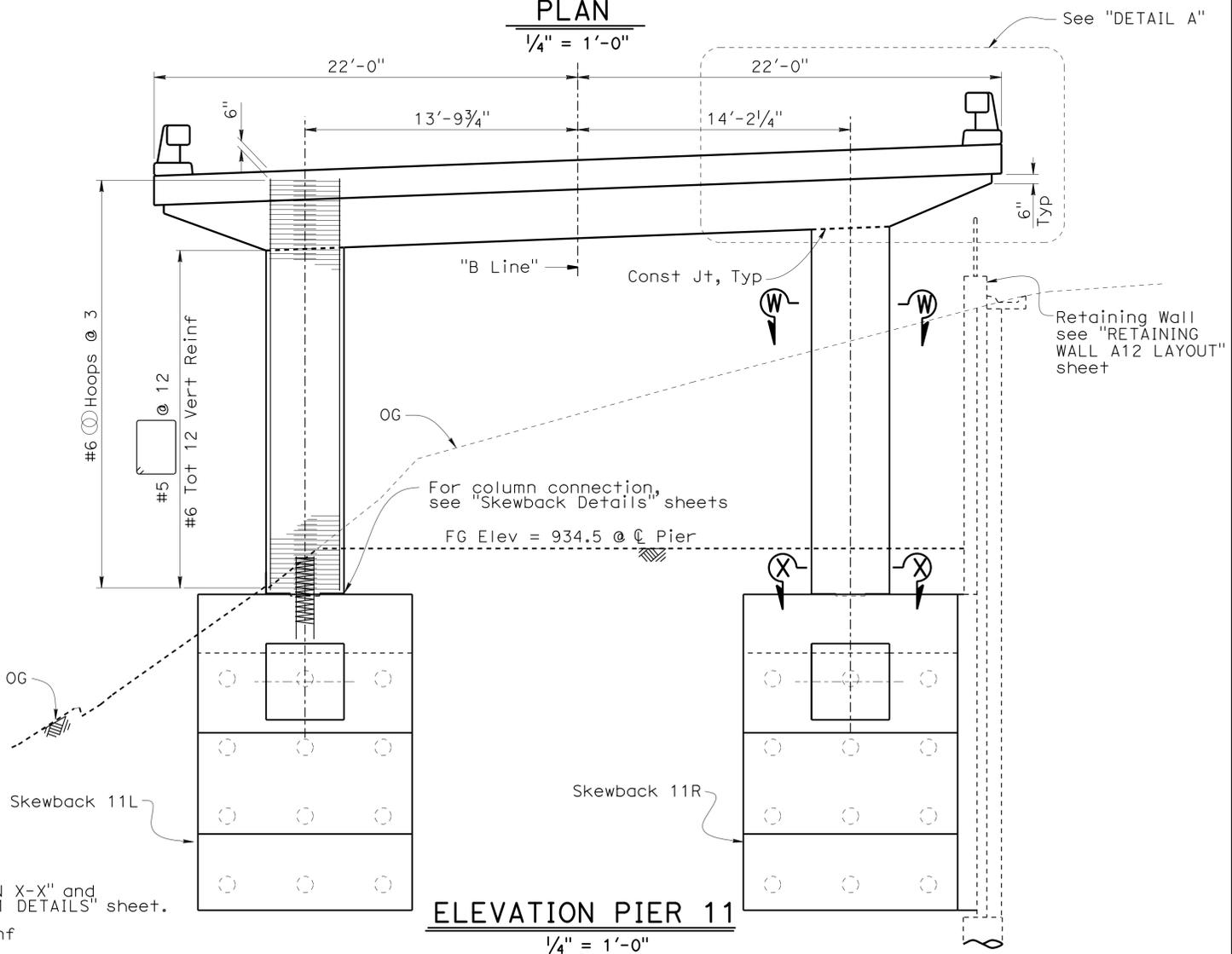
PLAN
1/4" = 1'-0"



ELEVATION PIER 6
1/4" = 1'-0"



PLAN
1/4" = 1'-0"



ELEVATION PIER 11
1/4" = 1'-0"

NOTES:
 For "SECTION W-W", "SECTION X-X" and "DETAIL A", see "PIER 6 & 11 DETAILS" sheet.
 * Indicates epoxy coated Reinf

DESIGN	BY Kevin Harper	CHECKED Kyoung Lee
DETAILS	BY Bruno Jenko	CHECKED Kyoung Lee
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

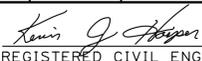
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 1

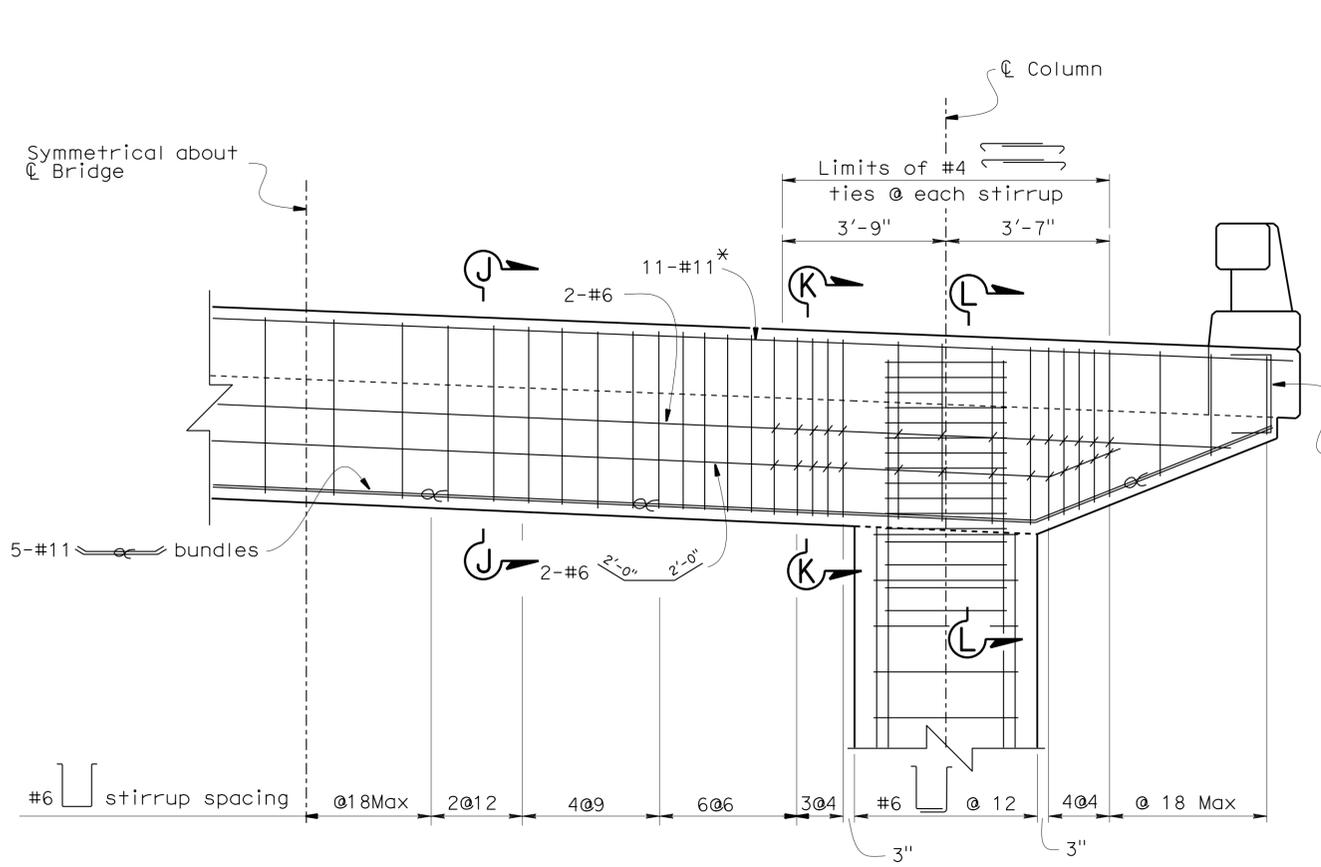
BRIDGE NO.	01-0080
POST MILE	24.04

MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
PIER 6 & 11

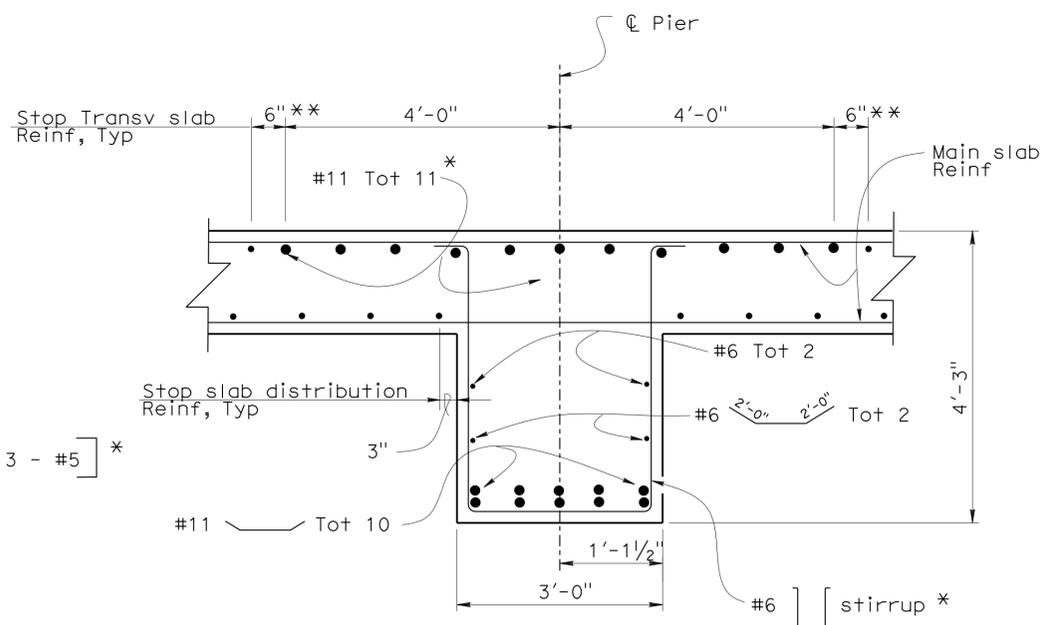


REVISION DATES	SHEET	OF
2-17-12	28	64

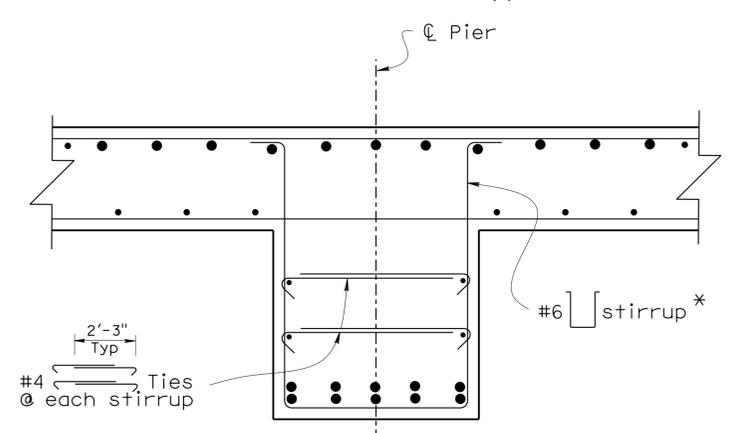
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	115	184
			3/20/13		
REGISTERED CIVIL ENGINEER			DATE		
6-24-13			PLANS APPROVAL DATE		
					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



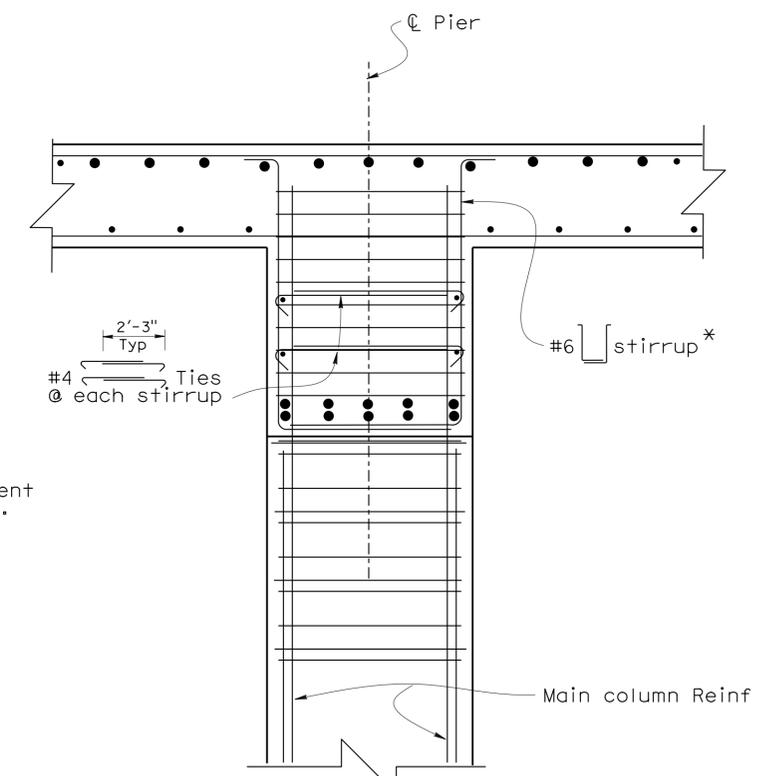
DETAIL A
1/2"=1'-0"



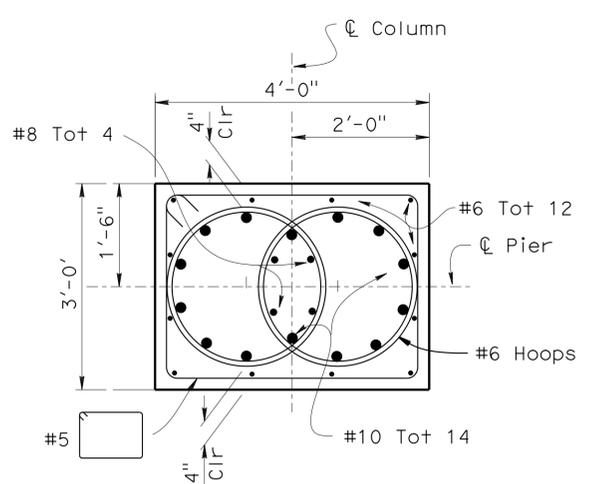
SECTION J-J
3/4"=1'-0"



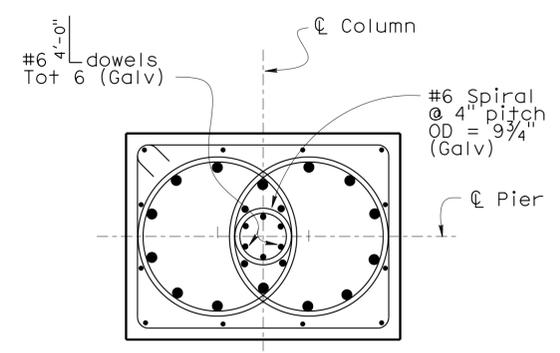
SECTION K-K
3/4"=1'-0"



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



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

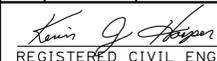


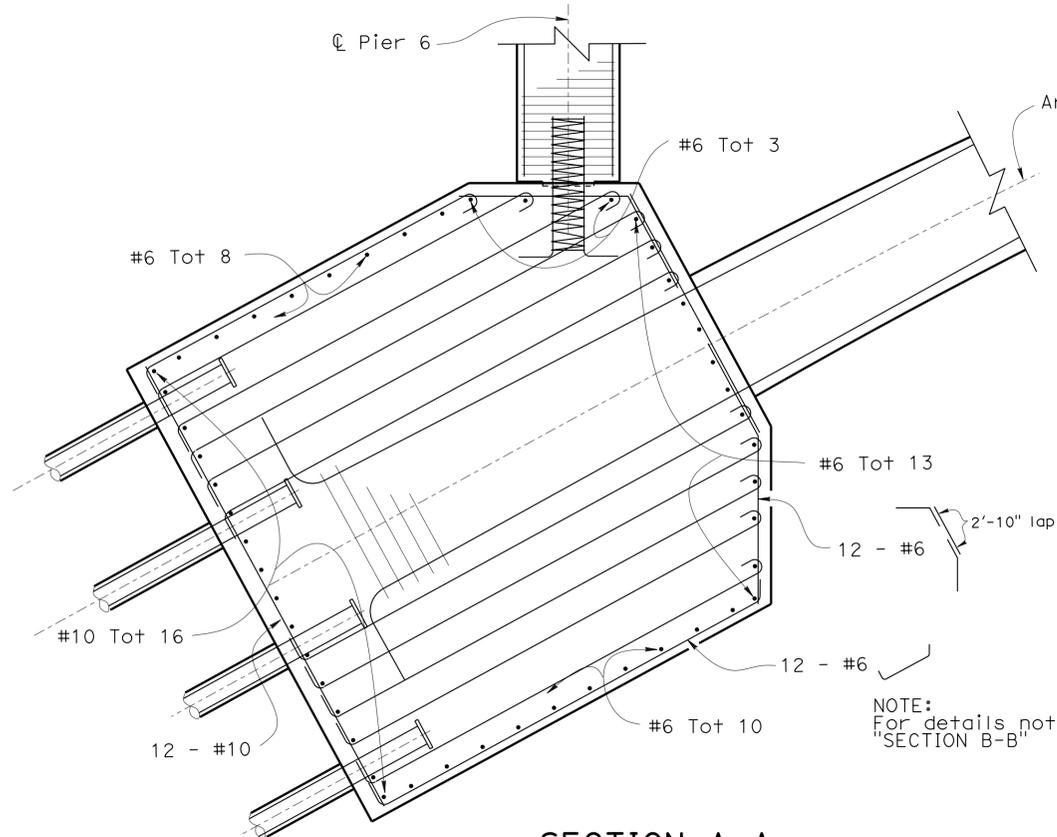
SECTION X-X
3/4"=1'-0"

- NOTES:
- No splices are allowed in main column reinforcement.
 - All hoops are "Ultimate" butt spliced continuous.

- LEGEND:
-  - Indicates bundled bars
 - * - Indicates epoxy coated Reinf
 - ** - For Transverse Slab Reinf limits @ Pier 11, see "PLAN" on "PIER 6 & 11" sheet.

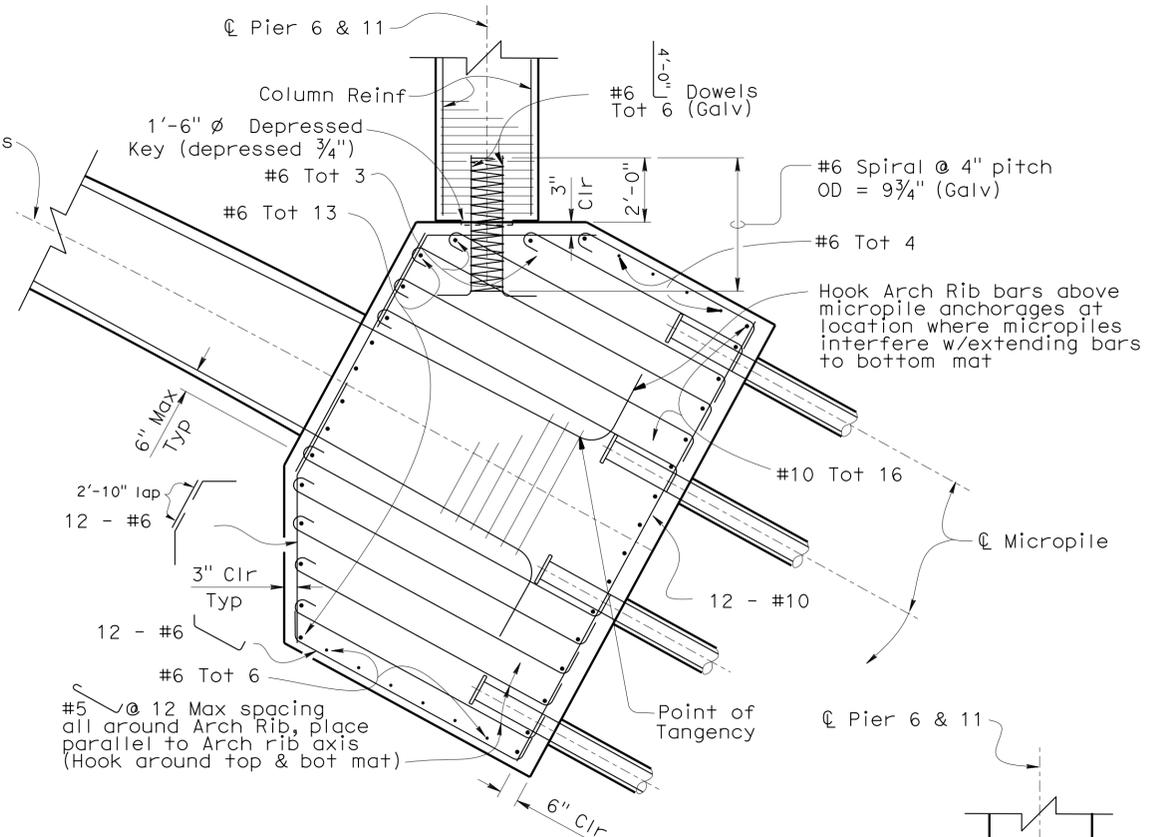
DESIGN BY Kevin Harper		CHECKED Kyoung Lee	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO.	MIDDLE FORK SMITH RIVER BRIDGE (REPLACE) PIER 6 & 11 DETAILS				
DETAILS BY Bruno Jenko		CHECKED Kyoung Lee			01-0080					
QUANTITIES BY Greg Thornton		CHECKED Vadim Shostak			24.04					
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3576	PROJECT NUMBER & PHASE: 01 0000 03711	CONTRACT NO.: 01-479404				
			0	1	2	3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 29	OF 64

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	117	184
			3/20/13	DATE	
REGISTERED CIVIL ENGINEER			PLANS APPROVAL DATE		
6-24-13			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.					



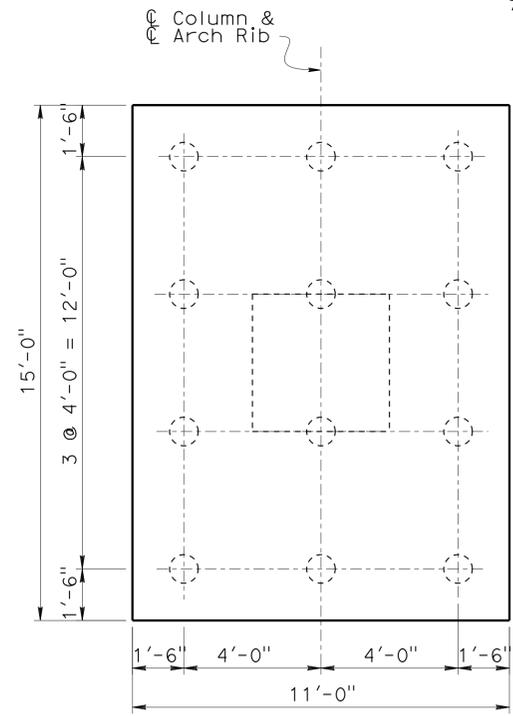
SECTION A-A

3/8"-1'-0"

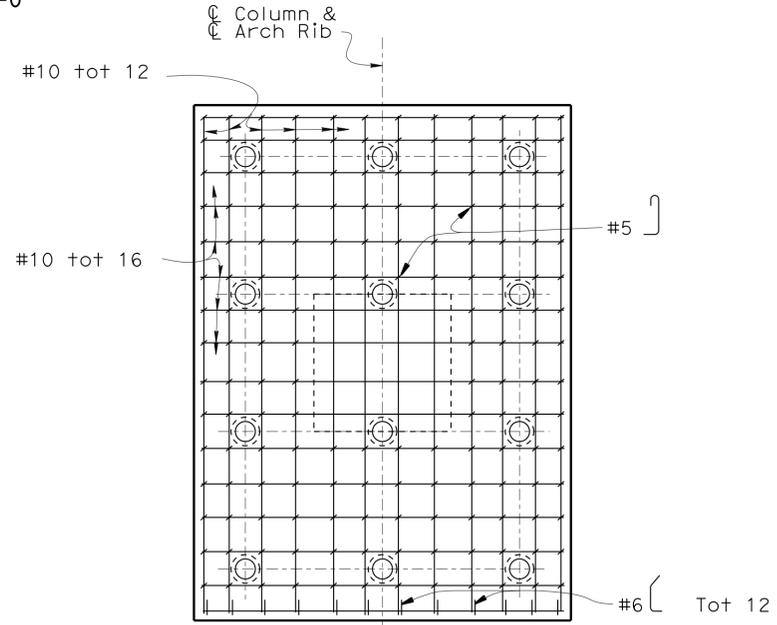


SECTION B-B

3/8"-1'-0"



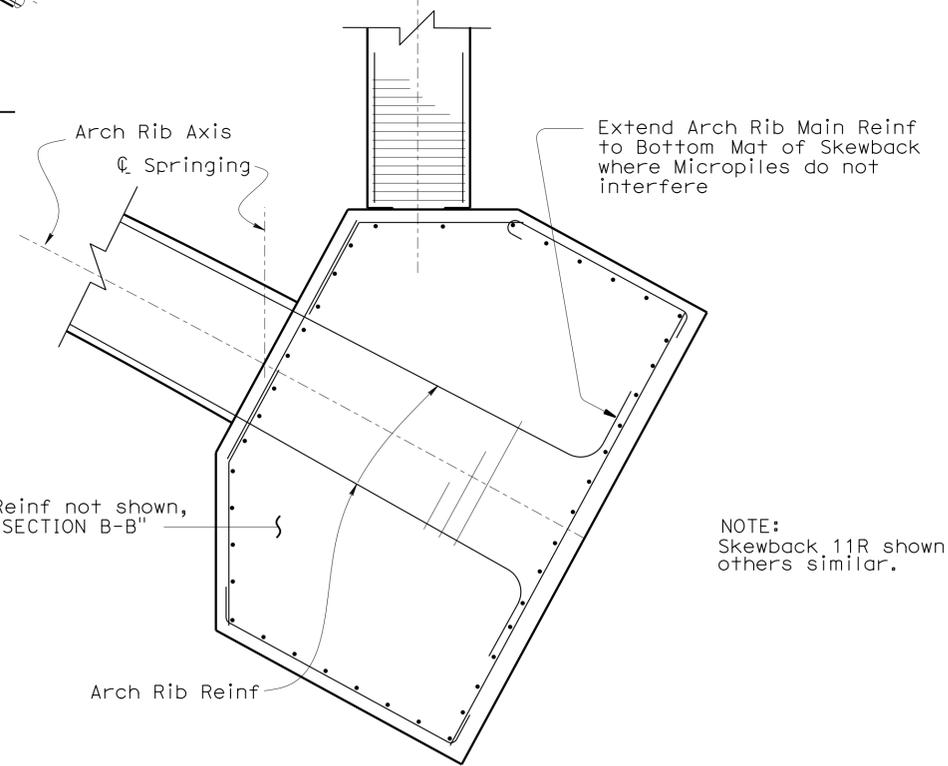
PILE LAYOUT



BOTTOM MAT REINF

SECTION D-D

3/8"-1'-0"



SECTION C-C

3/8"-1'-0"

NOTE:
For location of "SECTION A-A", "SECTION B-B", "SECTION C-C" and "SECTION D-D", see "SKEWBACK DETAILS NO.1" sheet.

LEGEND:
⊕ - Indicates micropile

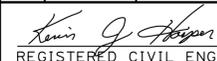
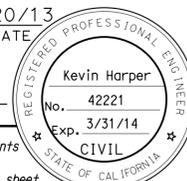
DESIGN	BY Kevin Harper	CHECKED Eric Watson
DETAILS	BY Bruno Jenko	CHECKED Eric Watson
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak

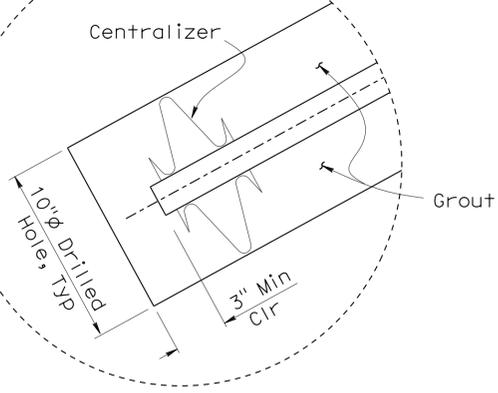
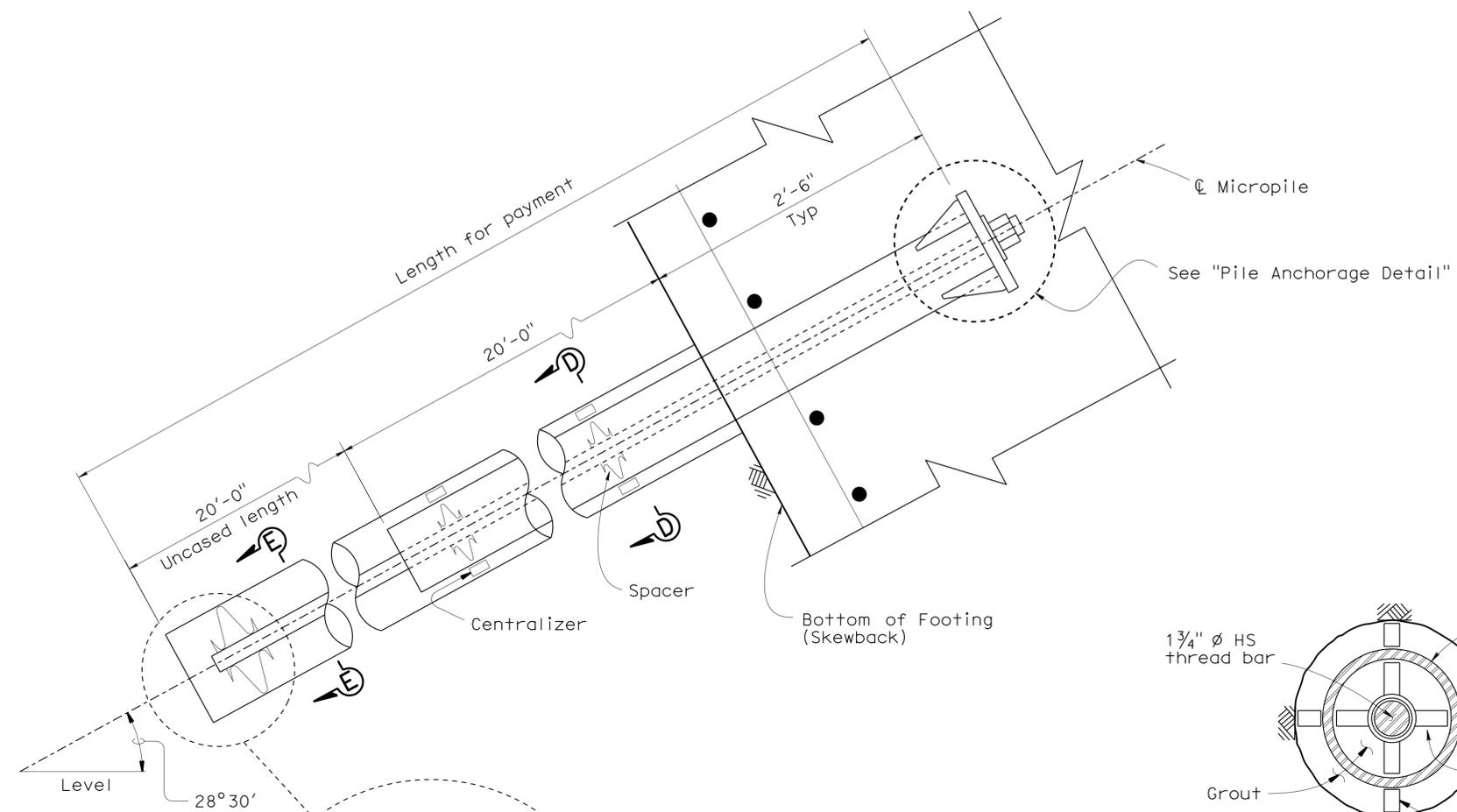
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	01-0080
POST MILE	24.04

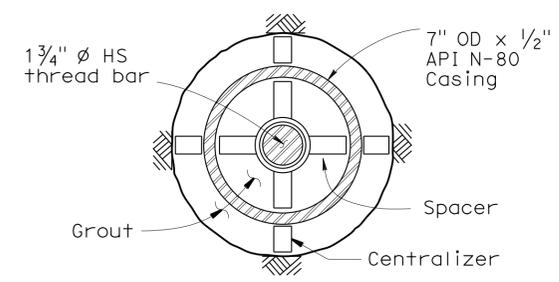
MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
SKEWBACK DETAILS NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	118	184
 REGISTERED CIVIL ENGINEER			3/20/13 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>					

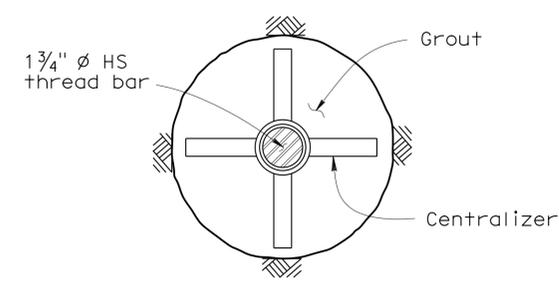


NOTE:
No splices allowed in casing or thread bar.

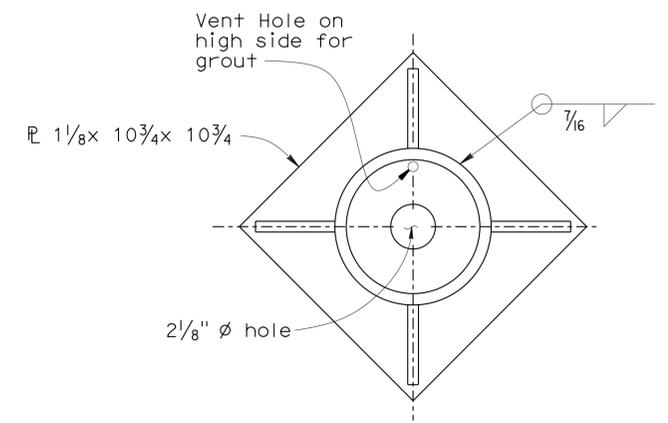
MICROPILE ELEVATION
1 1/2" = 1' - 0"



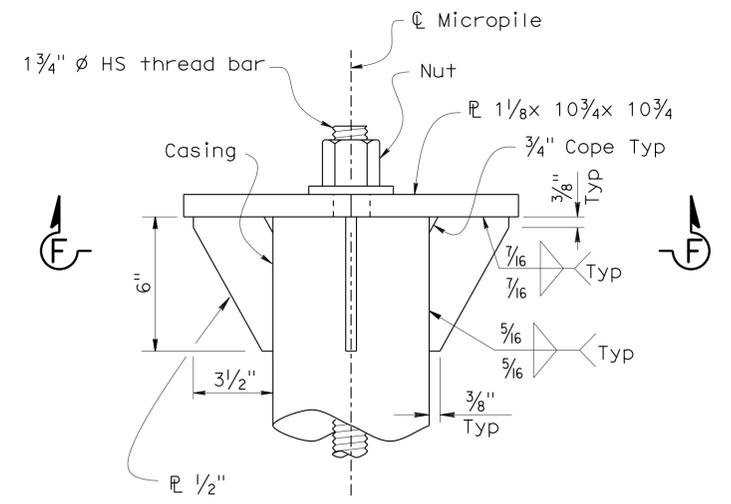
SECTION D-D
3" = 1' - 0"



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



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



NOTE:
Casing shall be completely filled to bottom of bearing plate with grout.

PILE ANCHORAGE
3" = 1' - 0"

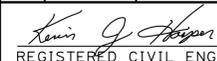
DESIGN	BY Kevin Harper	CHECKED Eric Watson
DETAILS	BY Bruno Jenko	CHECKED Eric Watson
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

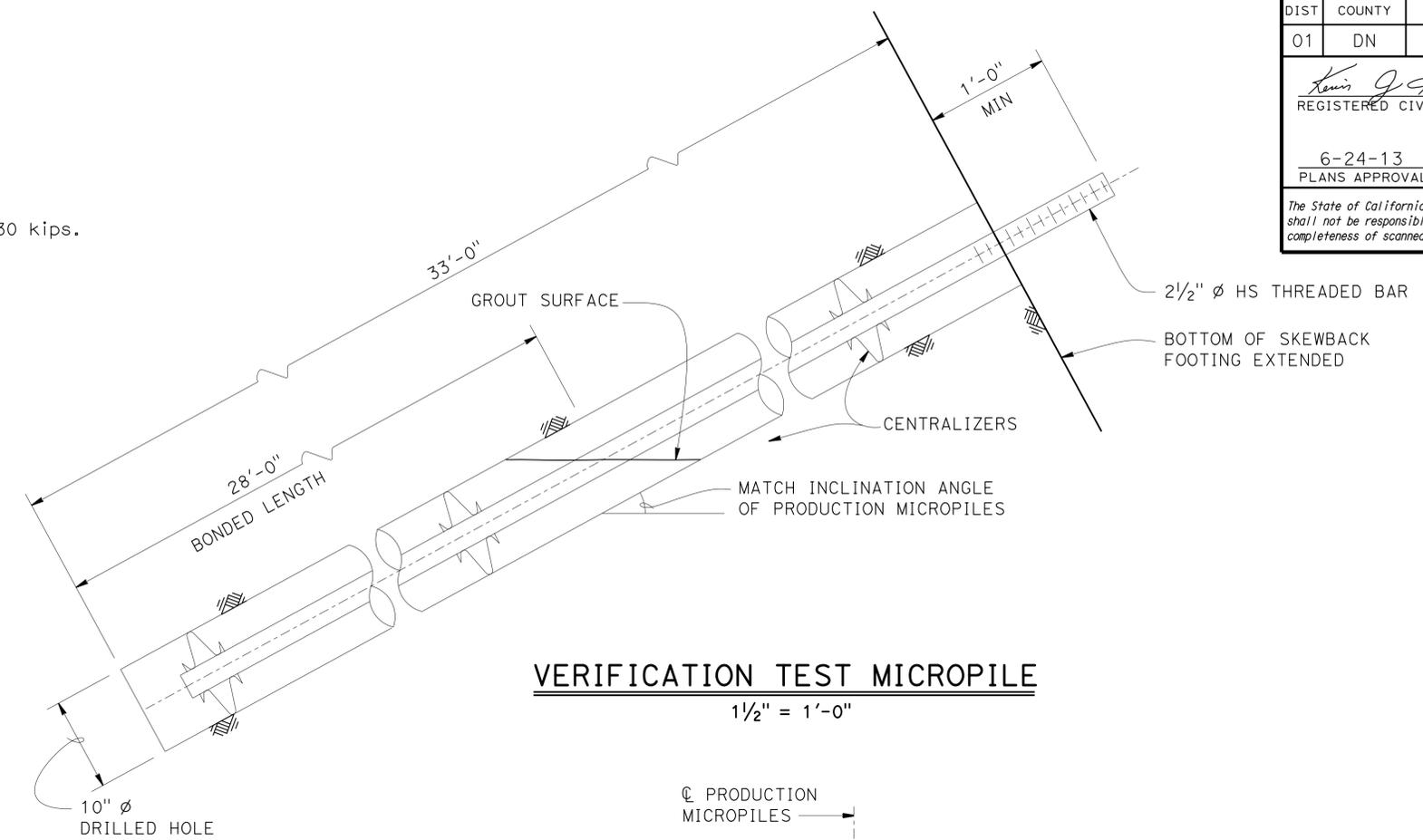
BRIDGE NO.	01-0080
POST MILE	24.04

MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
MICROPILE DETAILS NO. 1

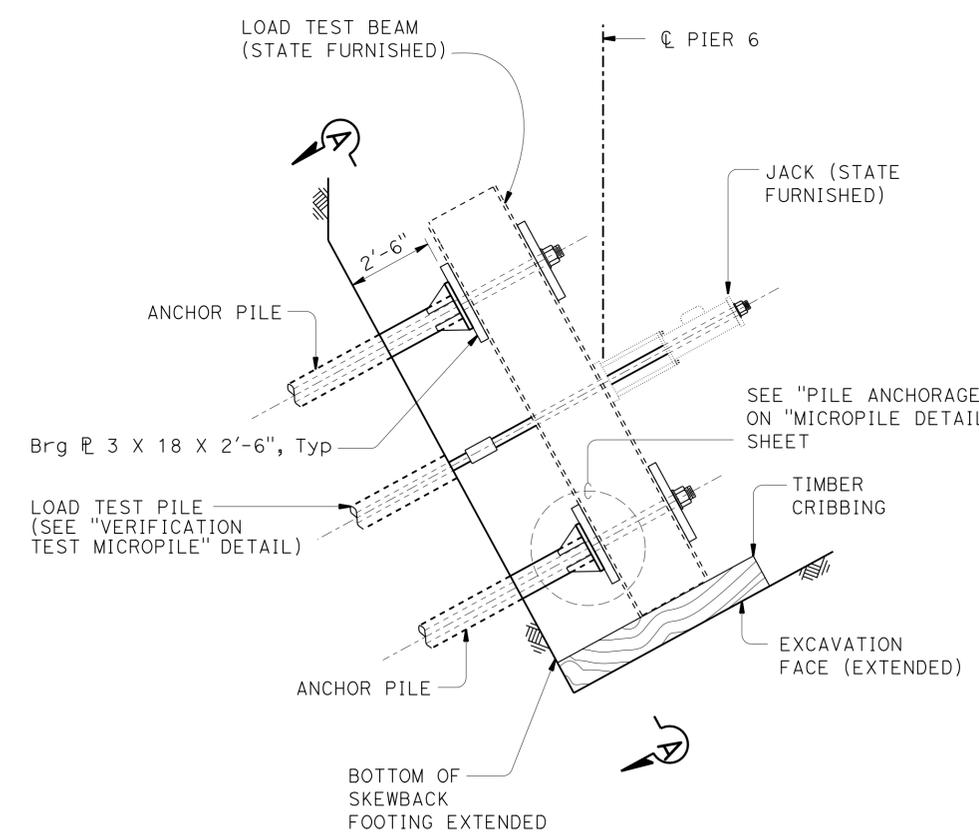
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	119	184
 REGISTERED CIVIL ENGINEER			3/20/13 DATE		
6-24-13 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</small>					

NOTES:

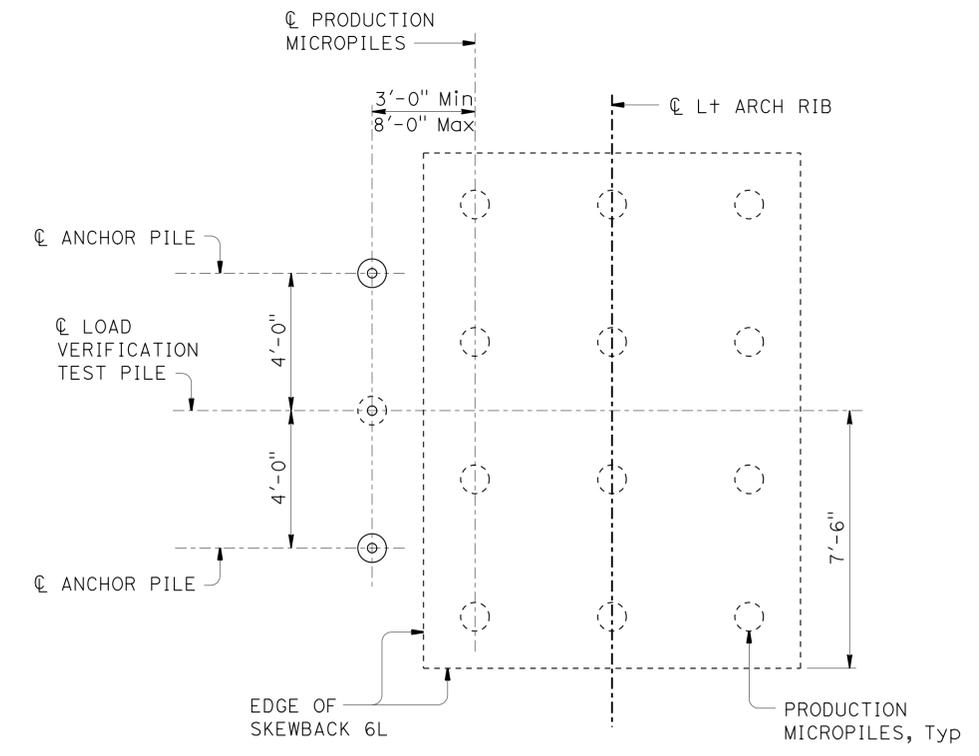
- Anchor Pile details shall be identical to the production piles at the Pier 6 Skewback. See "MICROPILE DETAILS NO.1" sheet.
- The tensile Nominal Resistance of the Verification Test Micropile is 530 kips.



VERIFICATION TEST MICROPILE
 $1/2" = 1'-0"$



ELEVATION - VERIFICATION (TENSION) TEST
 $3/8" = 1'-0"$



SECTION A-A
 $3/8" = 1'-0"$

DESIGN	BY Kevin Harper	CHECKED Eric Watson
DETAILS	BY Bob Huddleston	CHECKED Eric Watson
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 1

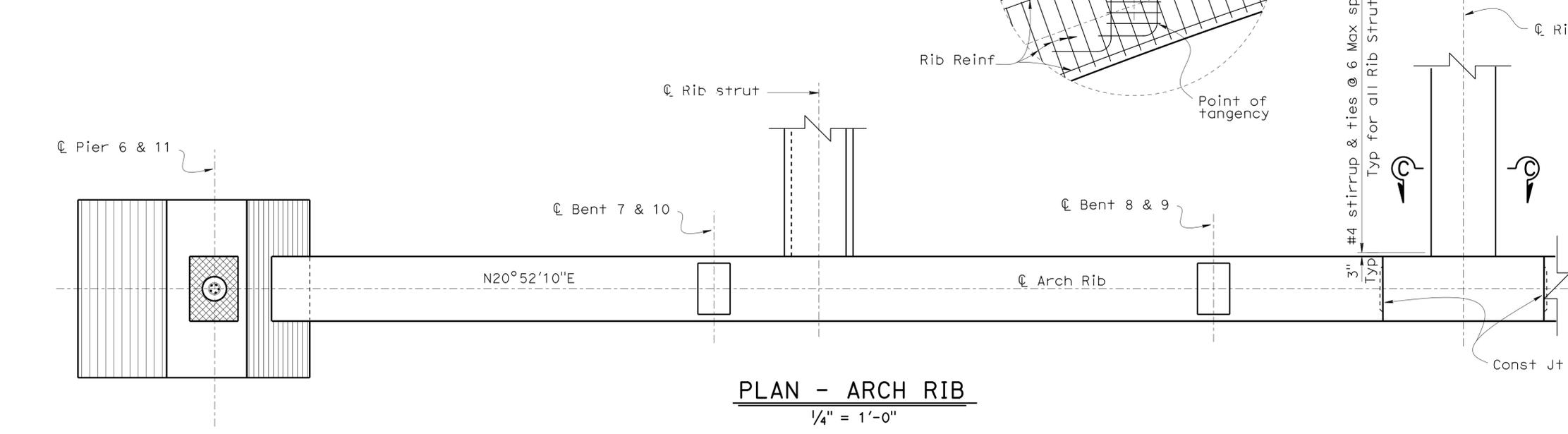
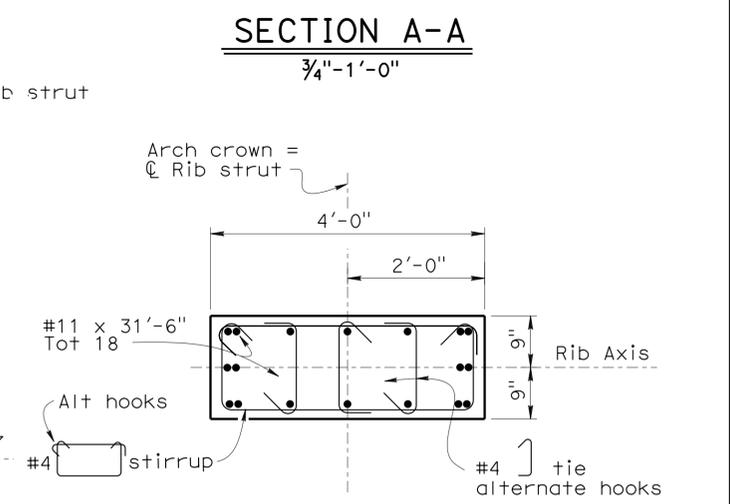
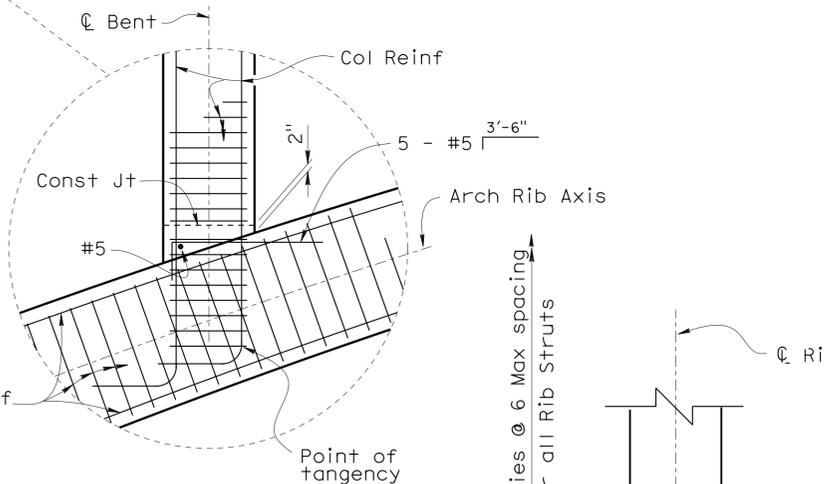
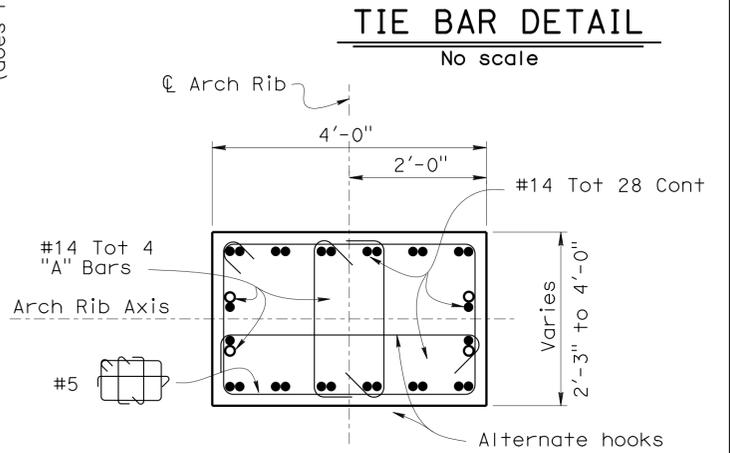
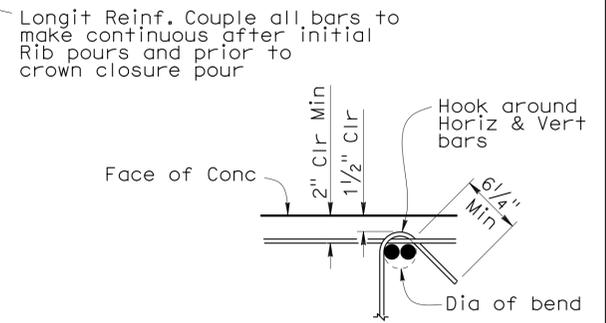
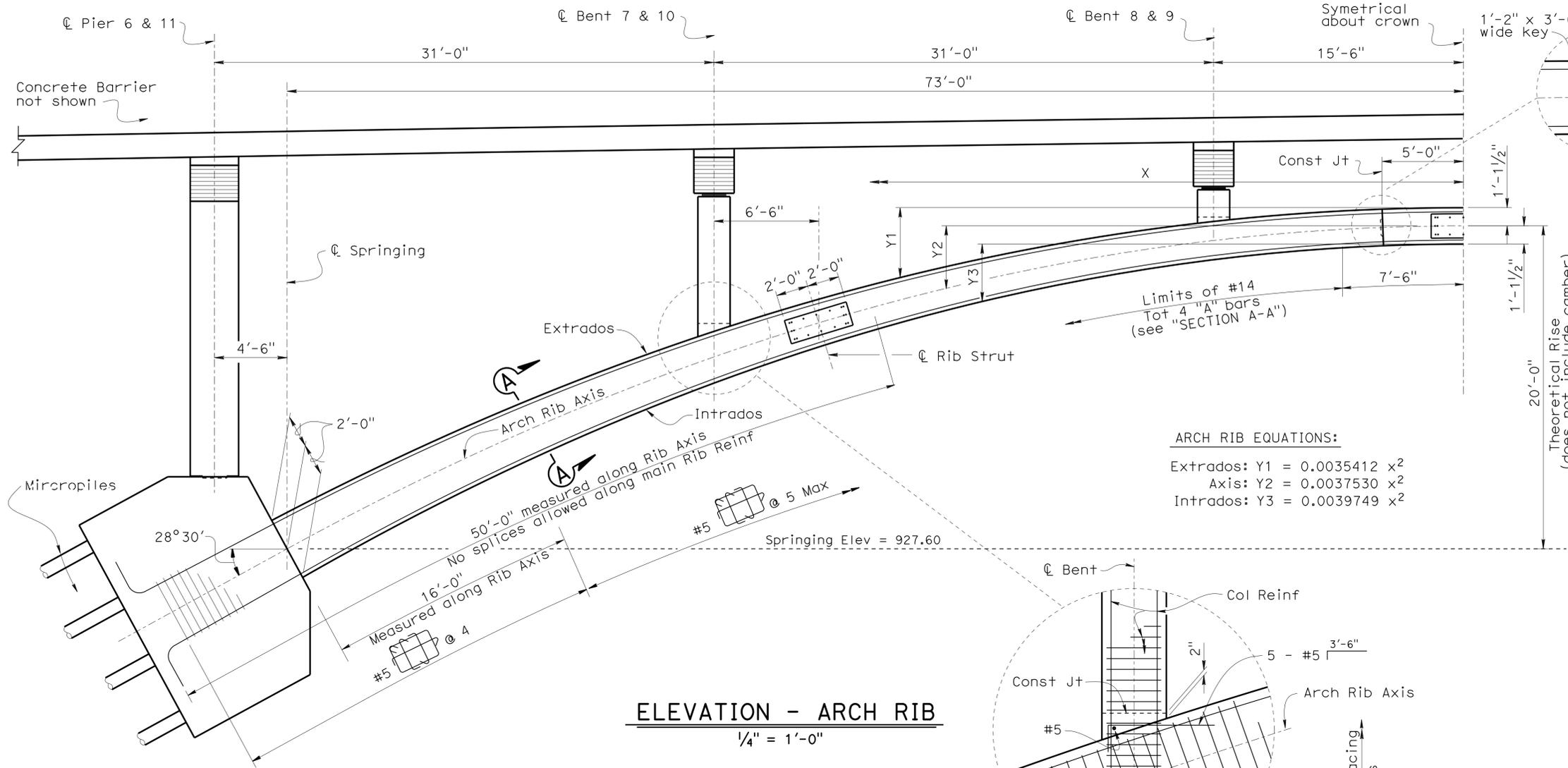
BRIDGE NO.	01-0080
POST MILE	24.04

MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
MICROPILE DETAILS NO. 2

USERNAME => s124486 DATE PLOTTED => 22-JUN-2013 TIME PLOTTED => 05:59

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	120	184

Kevin J. Harper 3/20/13
 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.



DESIGN	BY Kevin Harper	CHECKED Kyoung Lee
DETAILS	BY Bruno Jenko	CHECKED Kyoung Lee
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	01-0080
POST MILE	24.04

MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
ARCH RIB DETAILS

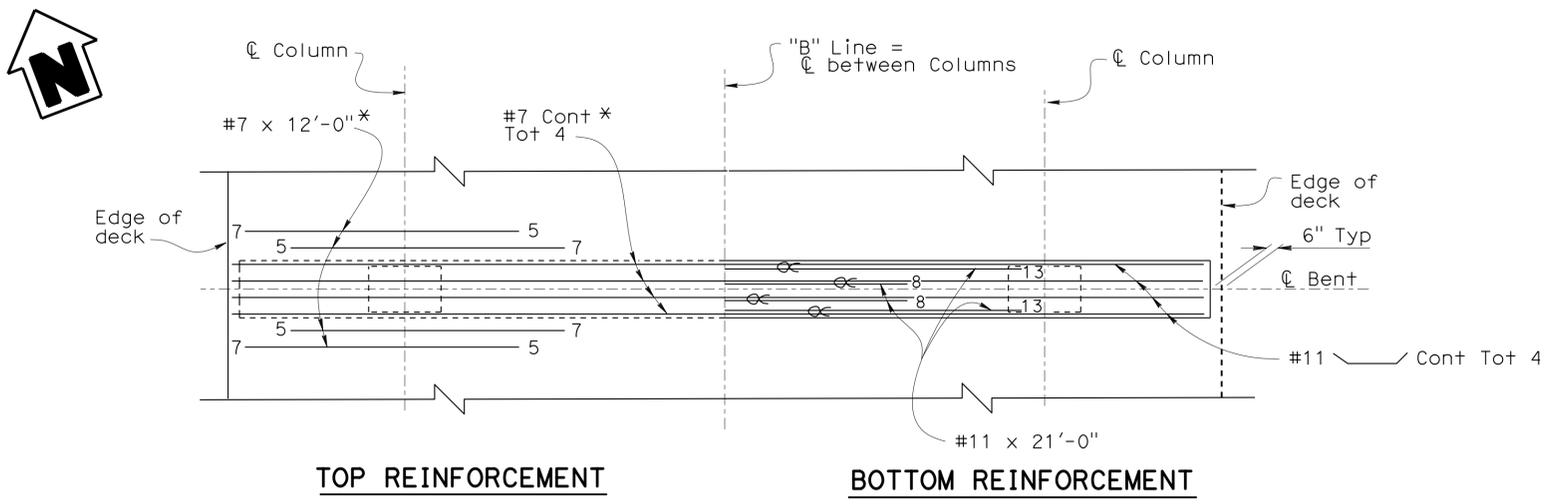
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	121	184

Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE

6-24-13
 PLANS APPROVAL DATE

Kevin Harper
 No. 42221
 Exp. 3/31/14
 CIVIL
 STATE OF CALIFORNIA

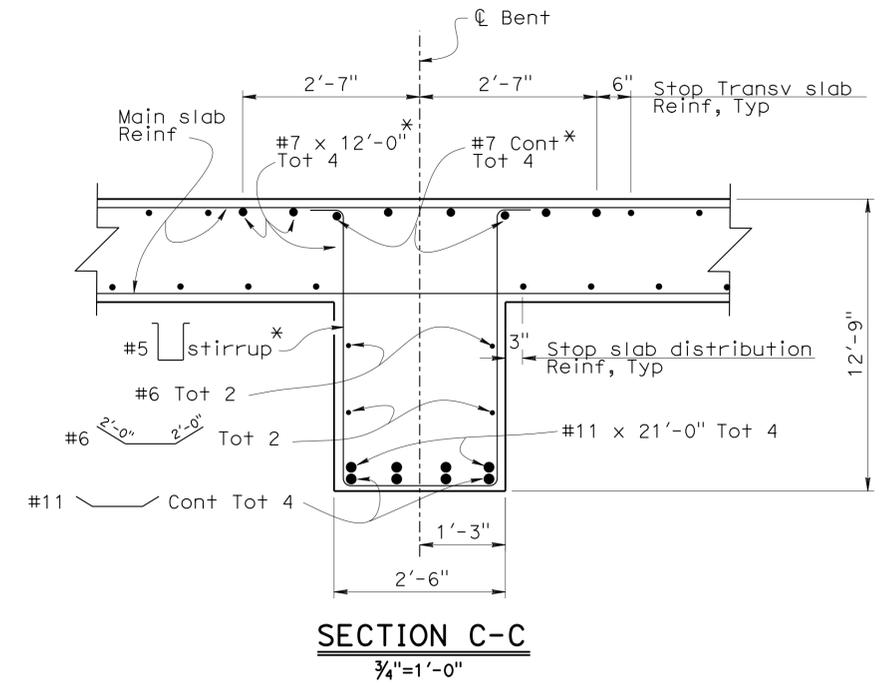
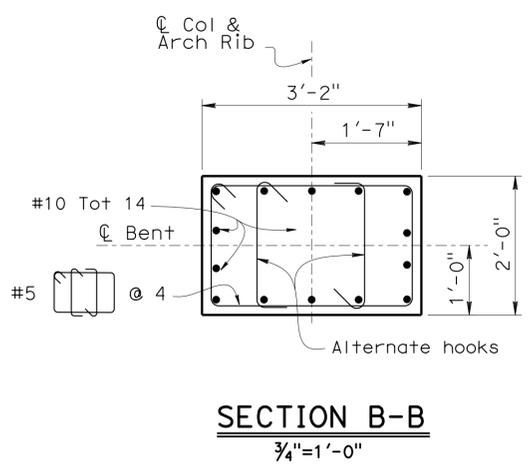
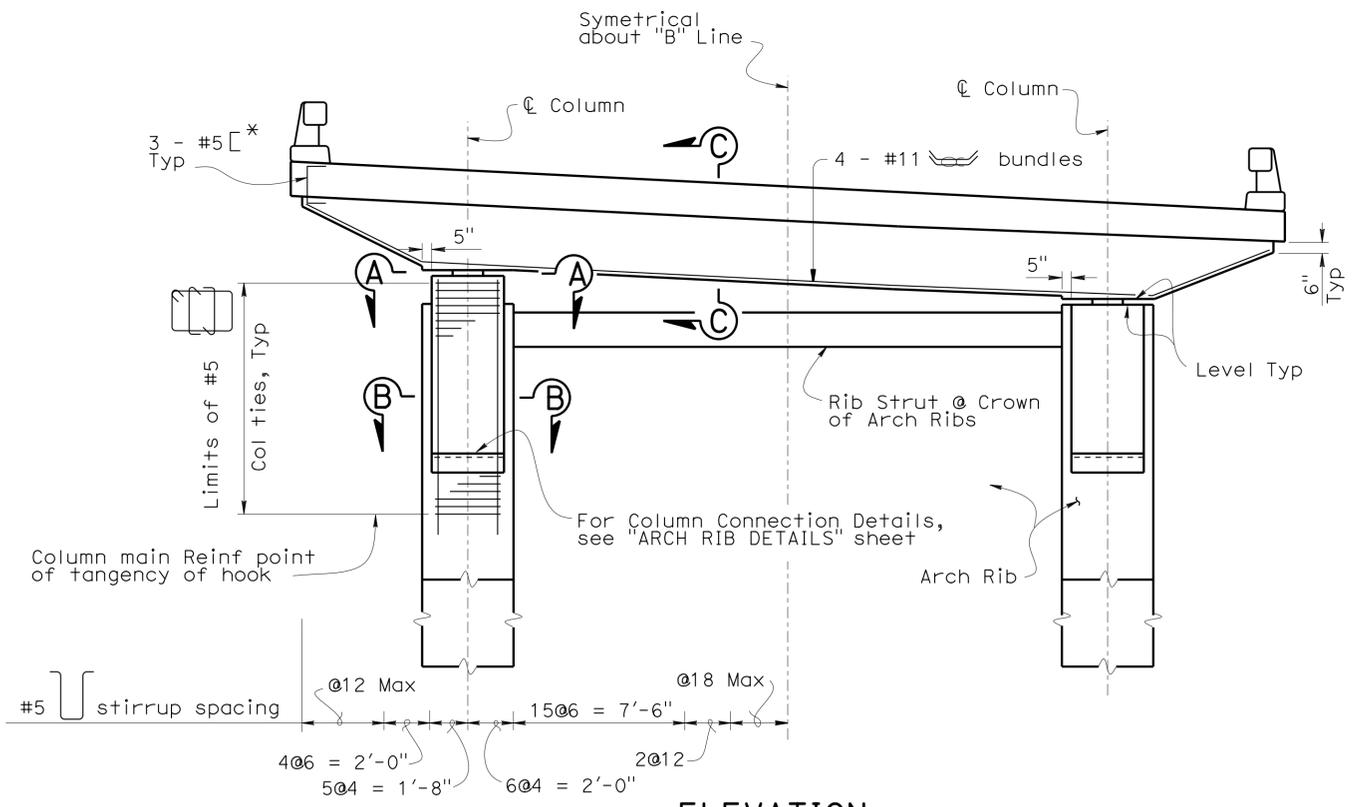
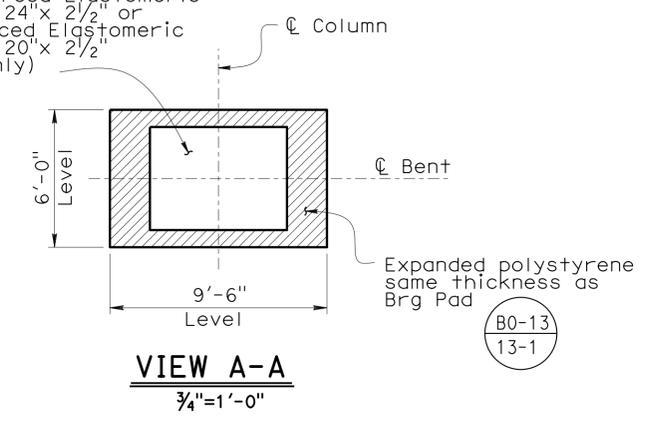
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



PLAN
 1/4" = 1'-0"

- NOTES:
- Numbers at end of bar indicate distance in feet from C Column for Top Reinf or C between Columns for Bottom Reinf.
 - Reinf symmetrical about C columns.
 - Bundled bars shown thus:
 - No Splices allowed in Main Column Reinf.
 - * Indicates epoxy coated Reinf.

Fabric Reinforced Elastomeric Brg Pad 18" x 24" x 2 1/2" or Steel Reinforced Elastomeric Brg Pad 18" x 20" x 2 1/2" (elastomer only)



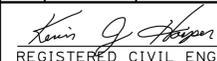
DESIGN	BY Kevin Harper	CHECKED Kyoung Lee
DETAILS	BY Bruno Jenko	CHECKED Kyoung Lee
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak

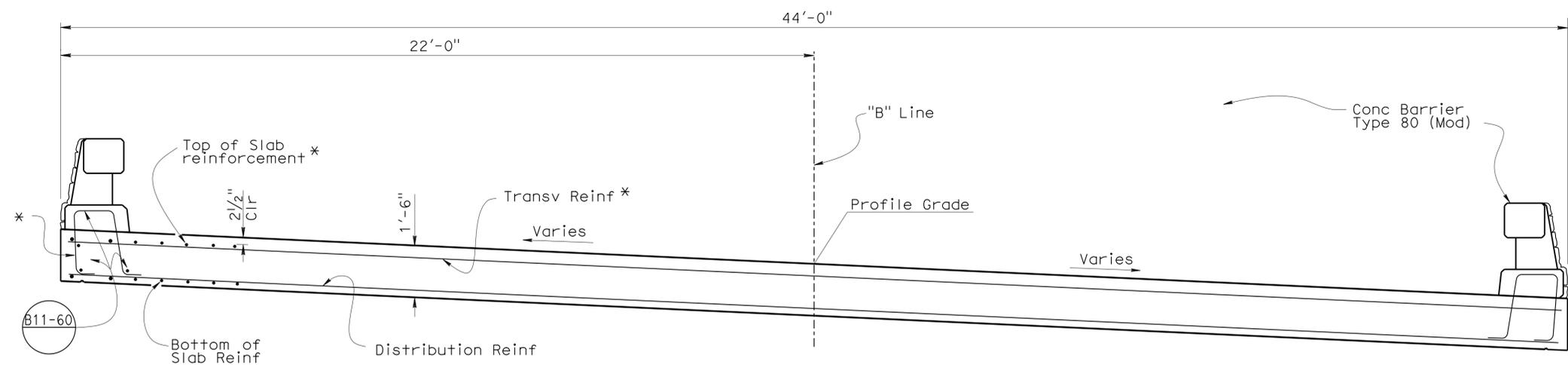
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	01-0080
POST MILE	24.04

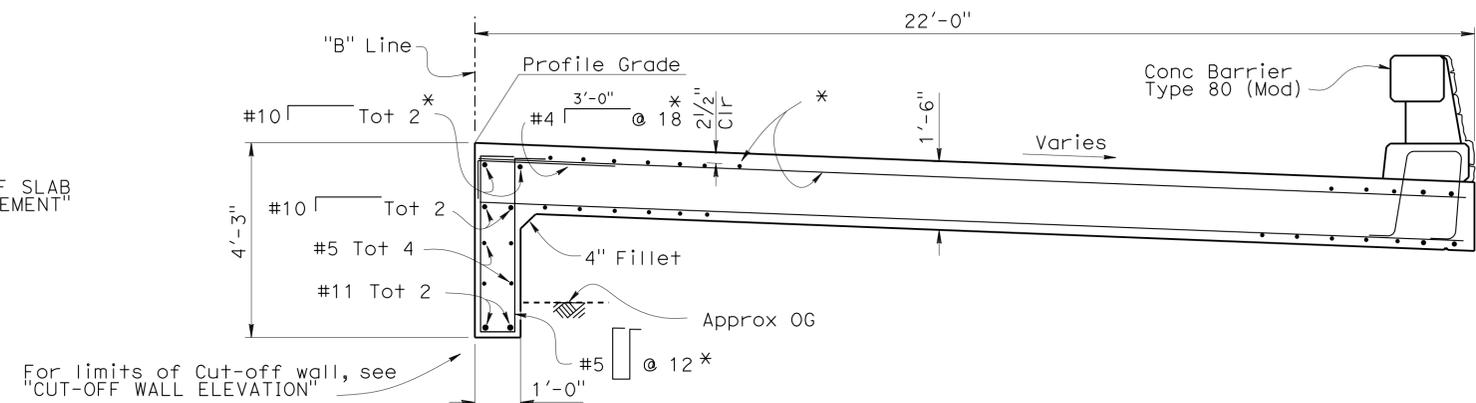
MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
SPANDREL BENTS 7, 8, 9 & 10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	122	184
 REGISTERED CIVIL ENGINEER			3/20/13 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>					

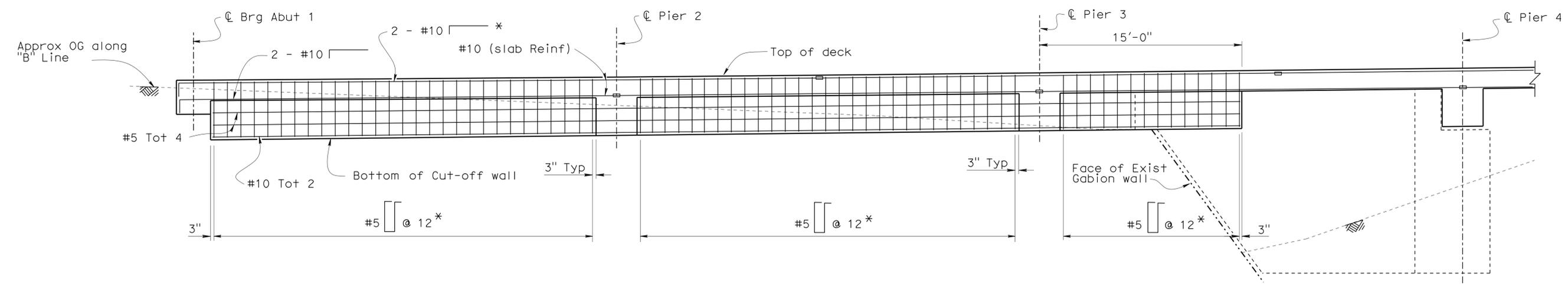


TYPICAL SECTION - SPANS 4-11
 1/2"=1'-0"

NOTES:
 1. For reinforcement not shown, see "TOP OF SLAB REINFORCEMENT", "BOTTOM OF SLAB REINFORCEMENT" and "SLAB DETAILS" sheets.
 * Indicates epoxy coated Reinf.



TYPICAL SECTION - SPANS 1-3
 1/2"=1'-0"



CUT-OFF WALL ELEVATION
 1/4"=1'-0"

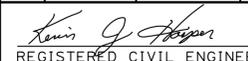
DESIGN	BY Kevin Harper	CHECKED Kyoung Lee
DETAILS	BY Bruno Jenko	CHECKED Kyoung Lee
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak

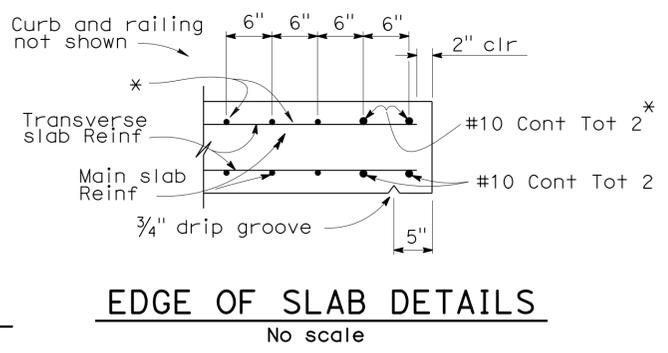
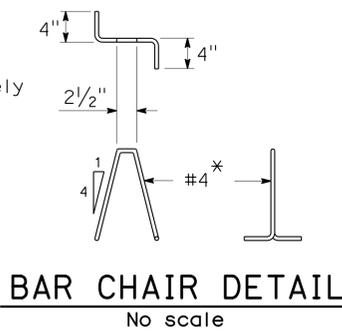
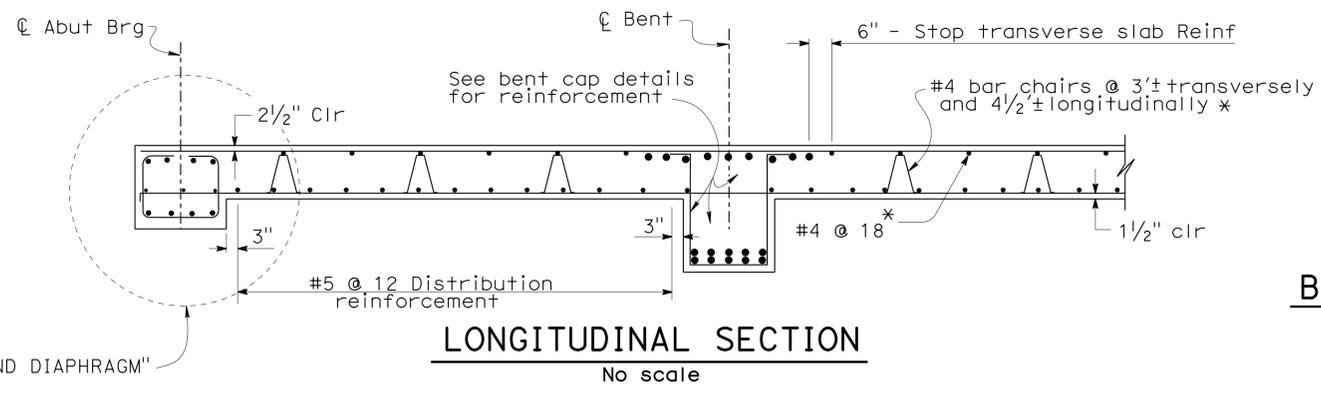
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 1

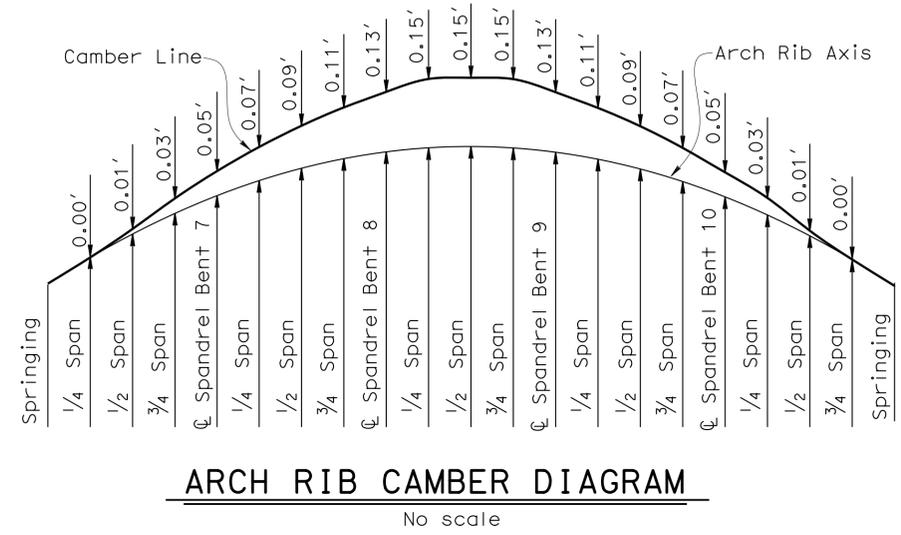
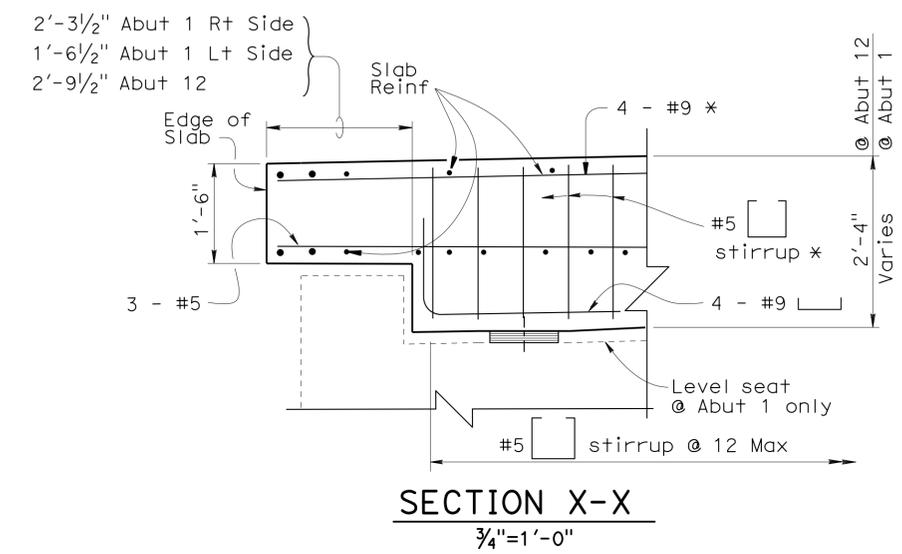
BRIDGE NO.	01-0080
POST MILE	24.04

MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
TYPICAL SECTION

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	123	184
 REGISTERED CIVIL ENGINEER DATE 3/20/13					
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>					

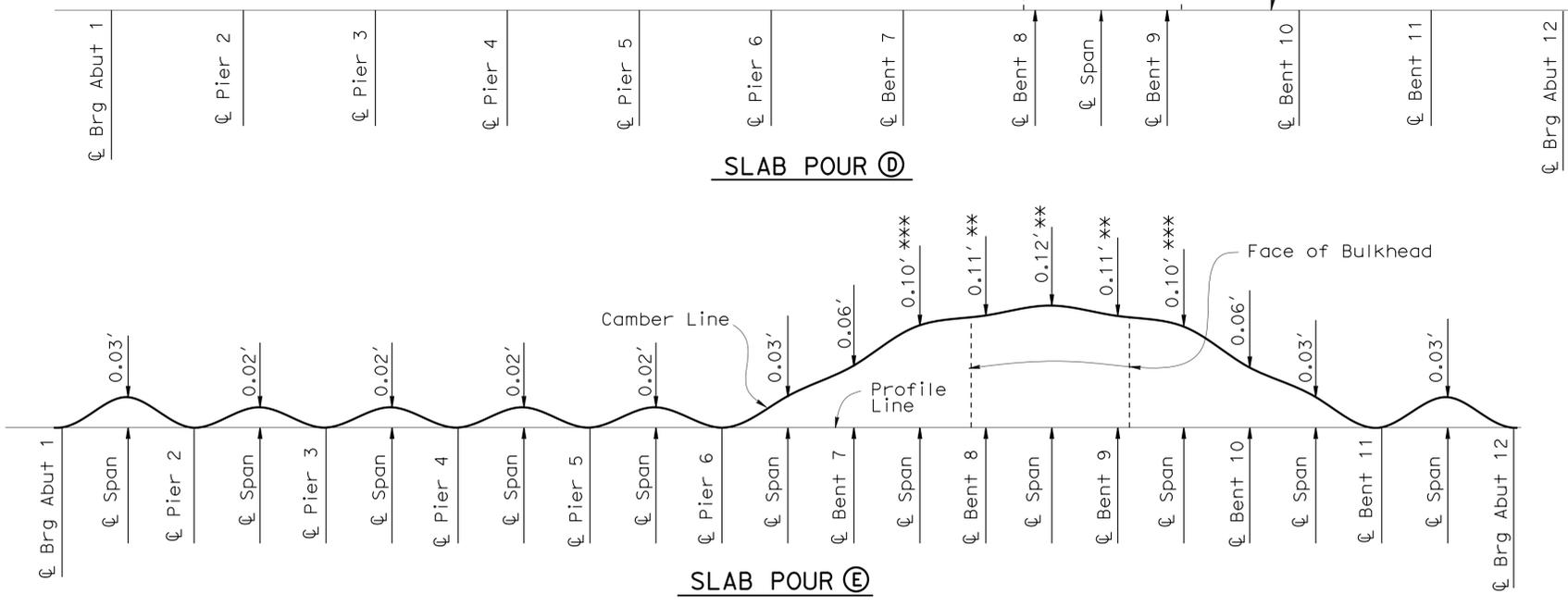
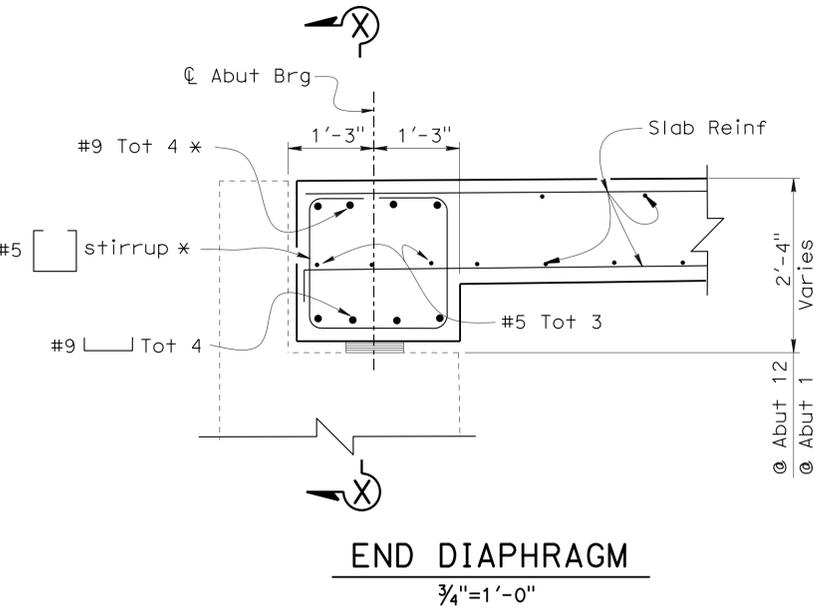


See "END DIAPHRAGM"



NOTES:

1. Camber Diagrams do not include allowance for falsework settlement.
 2. See "CONSTRUCTION SEQUENCE" sheet, for Slab Pour designations.
 3. The Camber Diagrams are for the construction sequence shown on the "CONSTRUCTION SEQUENCE" sheet. A construction sequence plan, including camber, for any alternative construction sequence or method shall be submitted to the Engineer for approval.
- * Indicates epoxy coated reinforcement.

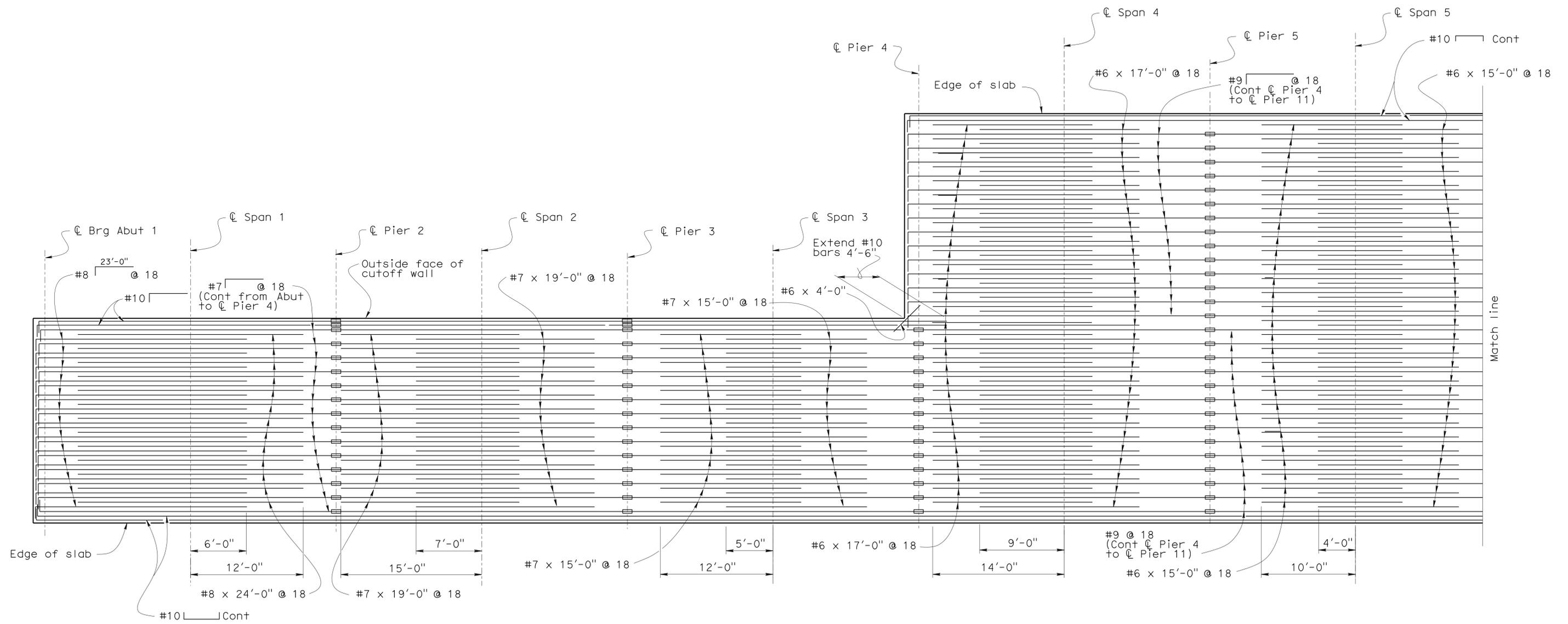


** Indicates theoretical Camber of previously constructed slab segment for information only. Match existing grades.
 *** Adjust Camber values to match Camber remaining on previously constructed bulkhead.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	DESIGN BY K. Harper / E. Watson CHECKED KYOUNG LEE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO. 01-0080 POST MILE 24.04	MIDDLE FORK SMITH RIVER BRIDGE (REPLACE) SLAB DETAILS
	DETAILS BY Bruno Jenko CHECKED KYOUNG LEE		PROJECT NUMBER & PHASE: 01 0000 03711 CONTRACT NO.: 01-479404	REVISION DATES 3-28-12 2-28-13 3-20-13	SHEET 37 OF 64
	QUANTITIES BY Greg Thornton CHECKED VADIM SHOSTAK		UNIT: 3576 DISREGARD PRINTS BEARING EARLIER REVISION DATES	FILE => 01-0080-k-ts02.dgn	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	124	184

Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE
 No. 42221
 Exp. 3/31/14
 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.



PLAN
No scale

NOTES:
 Curvature not shown.
 Deck Drains near Pier 3 not shown. See "DRAIN DETAILS" sheets.
 Indicates mechanical service splice (no lap splices allowed)

DESIGN	BY Kevin Harper	CHECKED Kyoung Lee
DETAILS	BY Bruno Jenko	CHECKED Kyoung Lee
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	01-0080	MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
POST MILE	24.04	
		BOTTOM OF SLAB REINFORCEMENT 1 OF 2

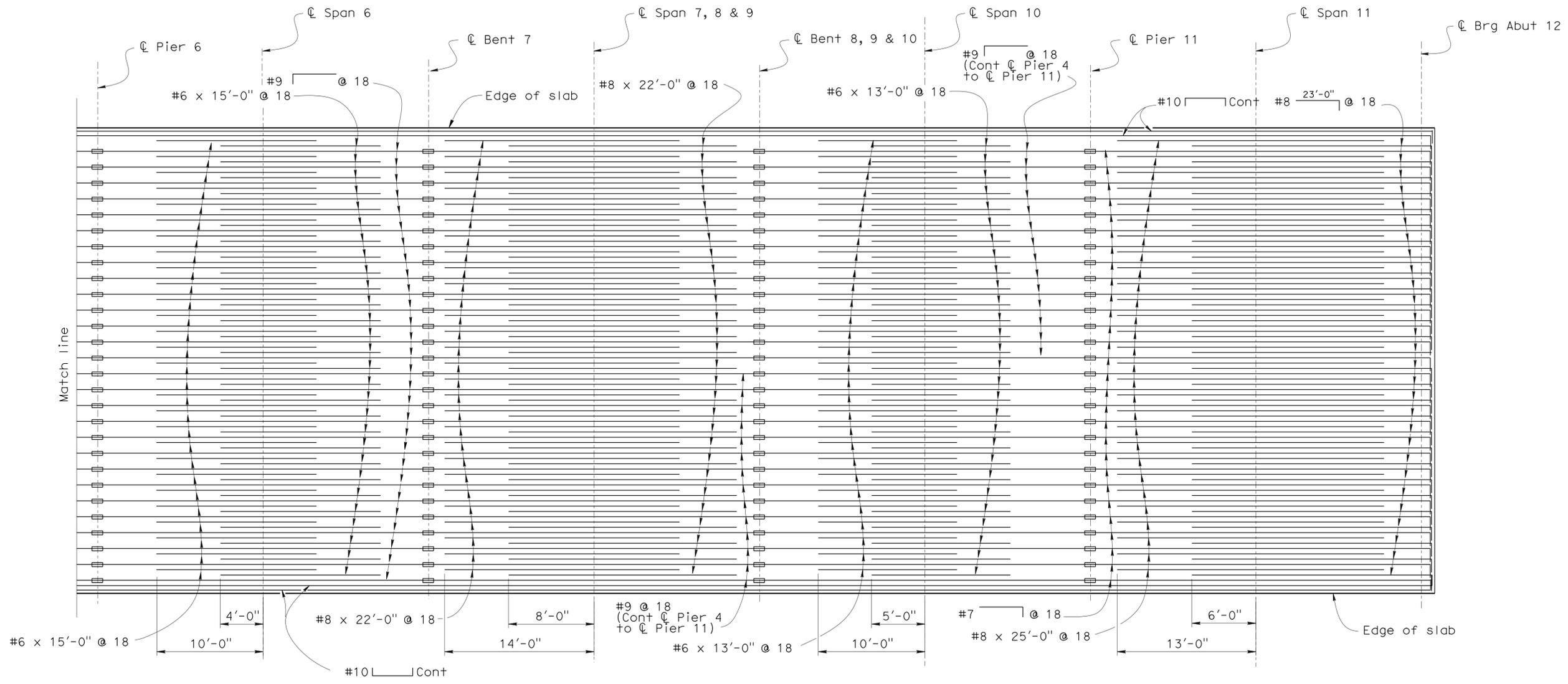
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	125	184

Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE

6-24-13
 PLANS APPROVAL DATE

Kevin Harper
 No. 42221
 Exp. 3/31/14
 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.



PLAN
No scale

- NOTES:
- Curvature not shown.
 - =— Indicates mechanical service splice (no lap splices allowed)

DESIGN	BY Kevin Harper	CHECKED Kyoung Lee
DETAILS	BY Bruno Jenko	CHECKED Kyoung Lee
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	01-0080
POST MILE	2404

MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
BOTTOM OF SLAB REINFORCEMENT 2 OF 2

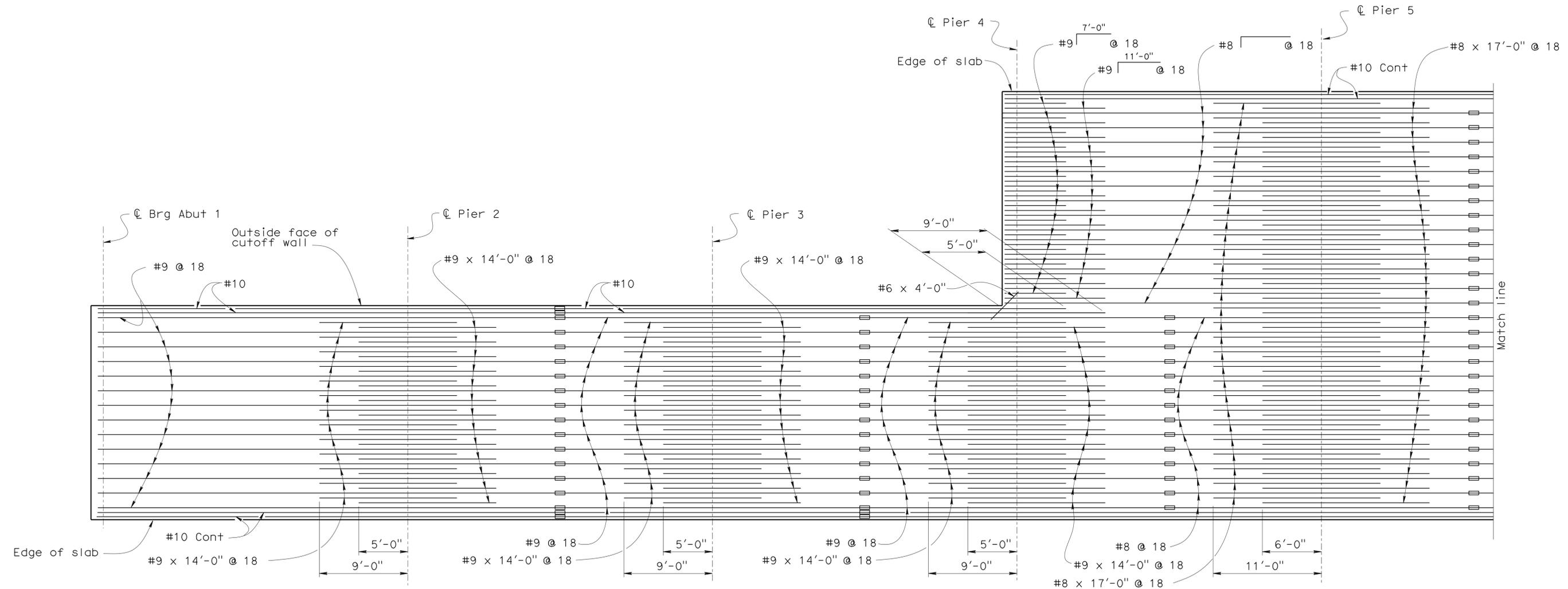
TIME PLOTTED => 05:59
 DATE PLOTTED => 22-JUN-2013
 USERNAME => s124496

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	126	184

<i>Kevin J. Harper</i>	3/20/13
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.



PLAN
No scale

NOTES:
 Curvature not shown.
 All reinforcement is epoxy coated.
 Deck Drains near Pier 3 not shown. See "DRAIN DETAILS" sheets.
 —||— Indicates mechanical service splice located near center of Span (no lap splices allowed).

DESIGN	BY Kevin Harper	CHECKED Kyoung Lee
DETAILS	BY Bruno Jenko	CHECKED Kyoung Lee
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	01-0080
POST MILE	24.04

MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
TOP OF SLAB REINFORCEMENT 1 OF 2

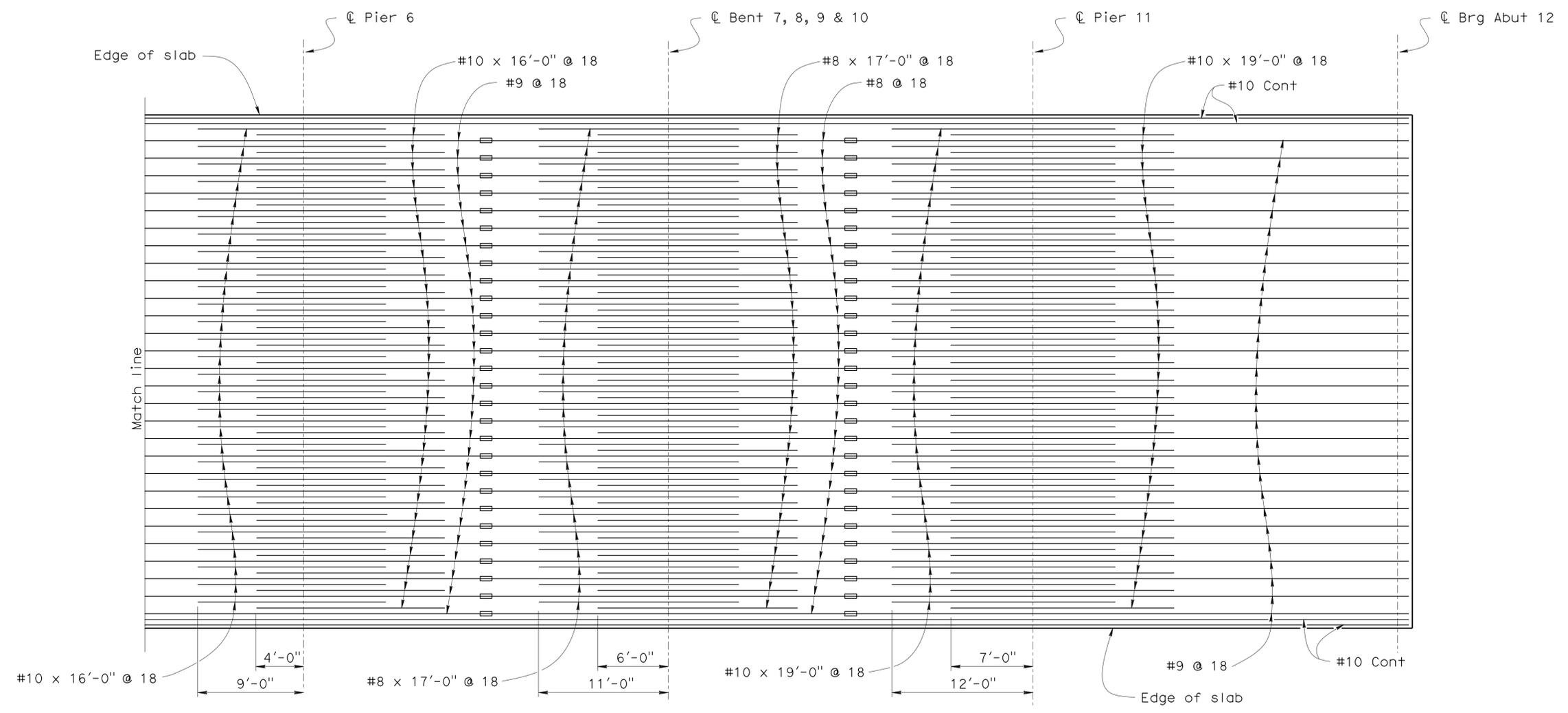
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	127	184

Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE

6-24-13
 PLANS APPROVAL DATE

Kevin Harper
 No. 42221
 Exp. 3/31/14
 CIVIL
 STATE OF CALIFORNIA

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PLAN
No scale

NOTES:
 Curvature not shown.
 —□— Indicates mechanical service splice located near center of Span (no lap splices allowed).
 All reinforcement is epoxy coated.

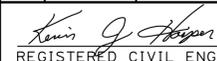
DESIGN	BY Kevin Harper	CHECKED Kyoung Lee
DETAILS	BY Bruno Jenko	CHECKED Kyoung Lee
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak

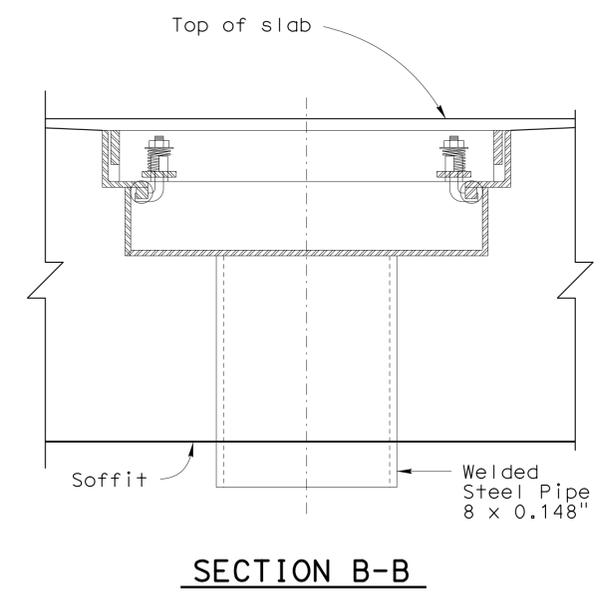
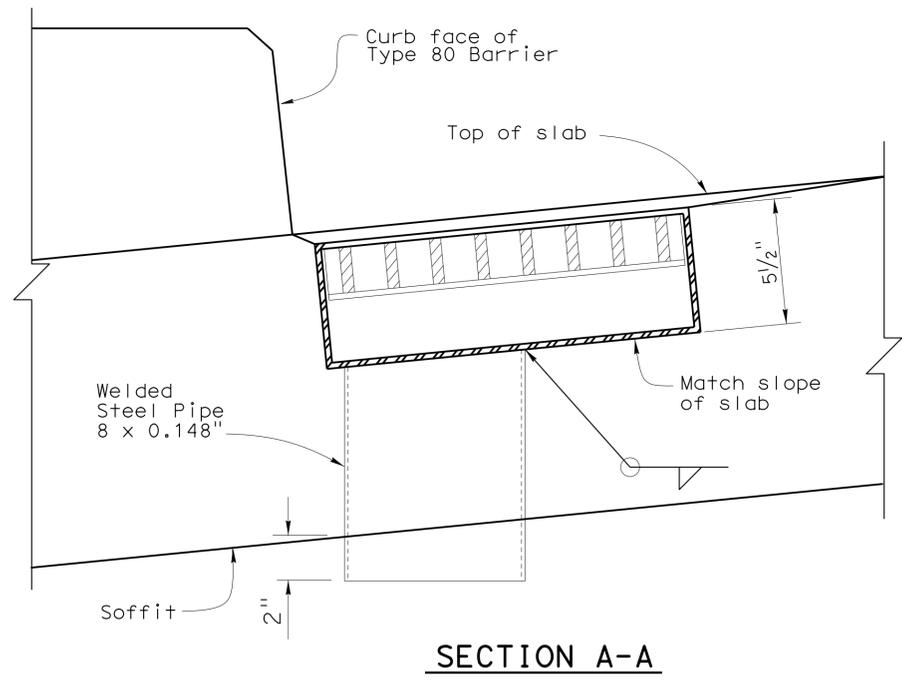
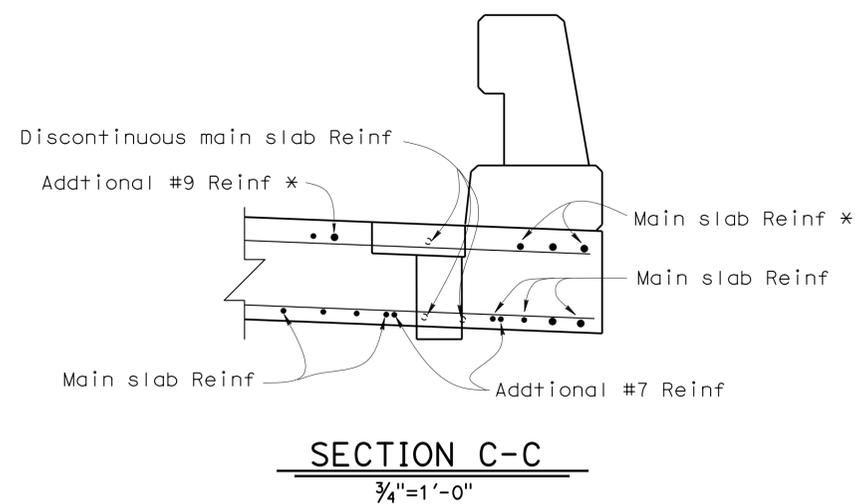
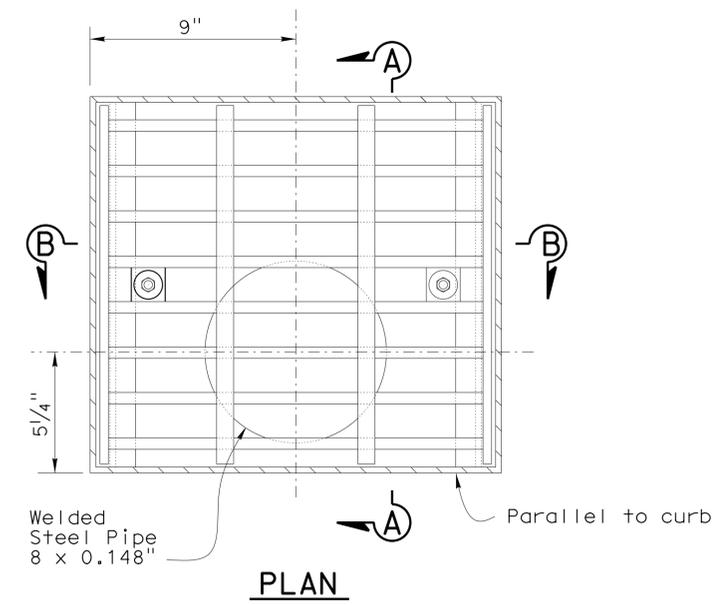
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	01-0080
POST MILE	24.04

MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
TOP OF SLAB REINFORCEMENT 2 OF 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	129	184
			3/20/13		
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>					



- NOTES:
- For dimensions not shown and Grate and Frame details, see Standard Plan B7-7.
 - Galvanize Deck Drain Assembly after fabrication.
 - For locations of Deck Drains, see "DRAIN DETAILS NO.1" sheet.
- * - Indicates epoxy coated Reinf

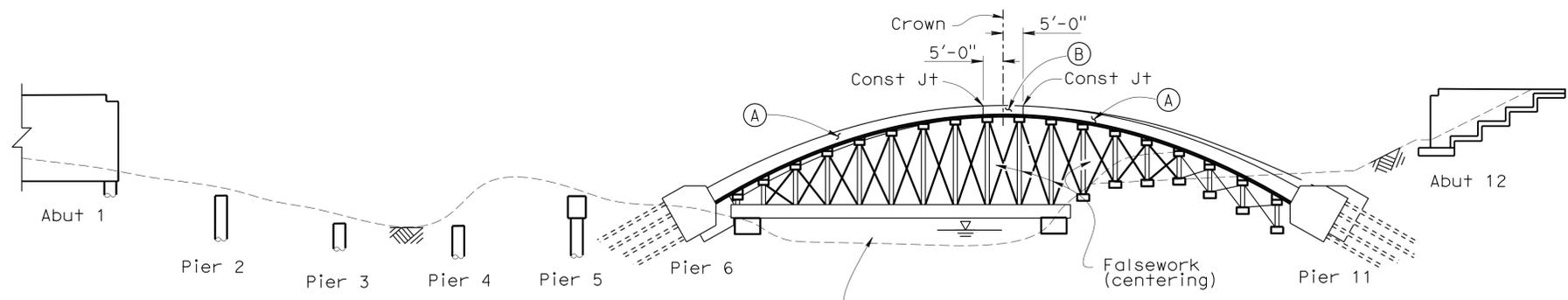
DECK DRAIN TYPE D-3 (MOD) DETAILS
3"=1'-0"

DESIGN BY Kevin Harper CHECKED Kyoung Lee DETAILS BY Bruno Jenko CHECKED Kyoung Lee QUANTITIES BY Greg Thornton CHECKED Vadim Shostak	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO.	MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
			01-0080	DRAIN DETAILS NO. 2
			POST MILE	24.04
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			UNIT: 3576	DISREGARD PRINTS BEARING EARLIER REVISION DATES
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			PROJECT NUMBER & PHASE: 01 0000 03711	CONTRACT NO.: 01-479404
			REVISION DATES	SHEET OF
			11/06/12 07/11/13 1-31-13	43 64

USERNAME => s124486 DATE PLOTTED => 22-JUN-2013 TIME PLOTTED => 06:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	130	184

Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE
 Kevin Harper
 No. 42221
 Exp. 3/31/14
 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.

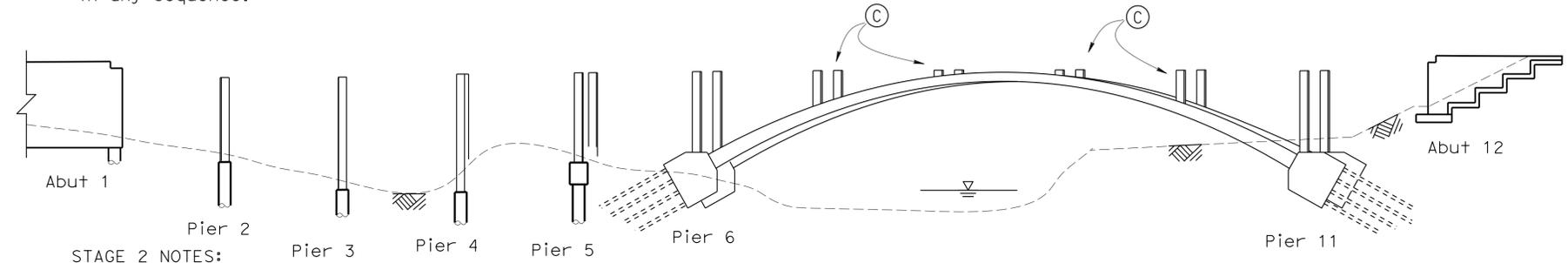


STAGE 1 NOTES:

1. Construct Arch foundations (Pier 6 & 11 skewbacks). Arch Rib concrete shall not be placed until skewback concrete has obtained a compressive strength of 3600 psi.
2. Construct Arch Ribs in sequence shown, Delay Crown Pour (B) a minimum of 7 days after completion of Pours (A). Pour (B) includes the Crown Strut between the Left and Right Ribs.
3. Bridge supports outside the limits of the Arch Ribs can be constructed in any sequence.

Falsework foundations not allowed within river channel (seasonal low flow channel width at time of falsework construction)

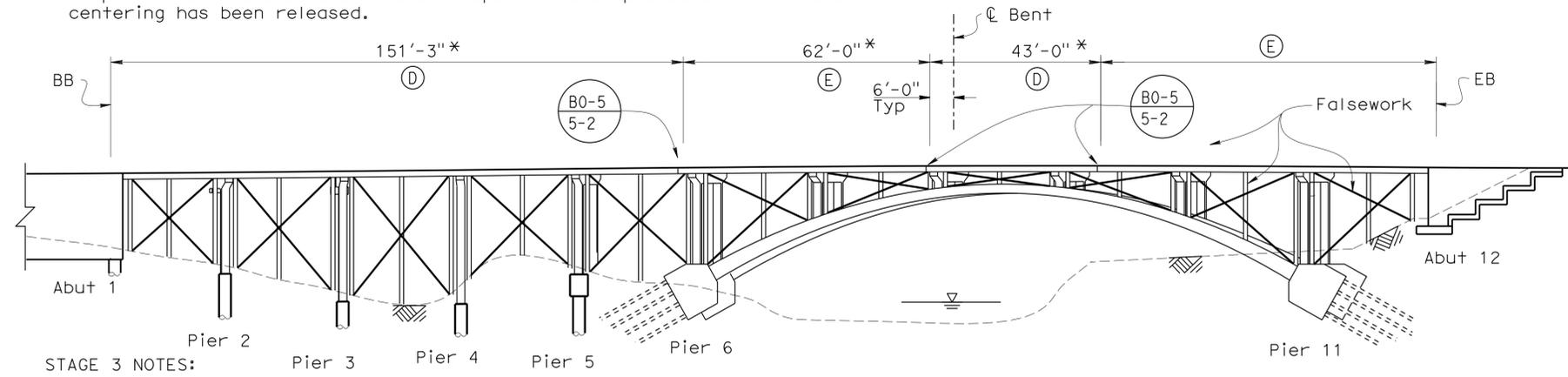
STAGE 1



STAGE 2 NOTES:

1. Falsework (centering) for Arch Ribs shall not be released until at least 7 days after the rib crown closure (B) has been placed and the compressive strength of 3600 psi has been obtained in pour (B).
2. Construct spandrel columns (C) on Arch Ribs symmetrically.
3. Other Columns that are not supported by the Arch Rib (including Piers 6 & 11) may be constructed at any time.
4. No portion of the slab over the arch span is to be poured until the falsework centering has been released.

STAGE 2



STAGE 3 NOTES:

1. Construct Bent Caps and Deck Slab on falsework.
 2. Delay slab pours (E) a minimum of 3 days after completion of slab pours (D)
 3. Slab pours (E) to be placed simultaneously.
 4. Complete Structure.
- * Indicates dimensions measured along "B" Line

STAGE 3

DESIGN	BY Kevin Harper	CHECKED Kyoung Lee
DETAILS	BY Bruno Jenko	CHECKED Kyoung Lee
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	01-0080
POST MILE	24.04

MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
CONSTRUCTION SEQUENCE



REVISION DATES	SHEET	OF
3-23-12 01/11/13	44	64

USERNAME => s124486 DATE PLOTTED => 22-JUN-2013 TIME PLOTTED => 06:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	131	184

<i>Kevin J. Harper</i>	3/20/13
REGISTERED CIVIL ENGINEER	DATE
6-24-13	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER

Kevin Harper

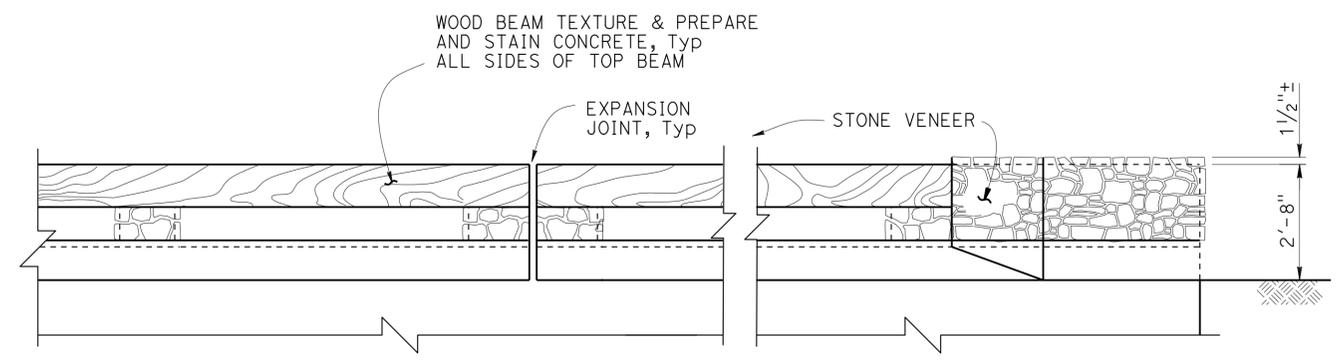
No. 42221

Exp. 3/31/14

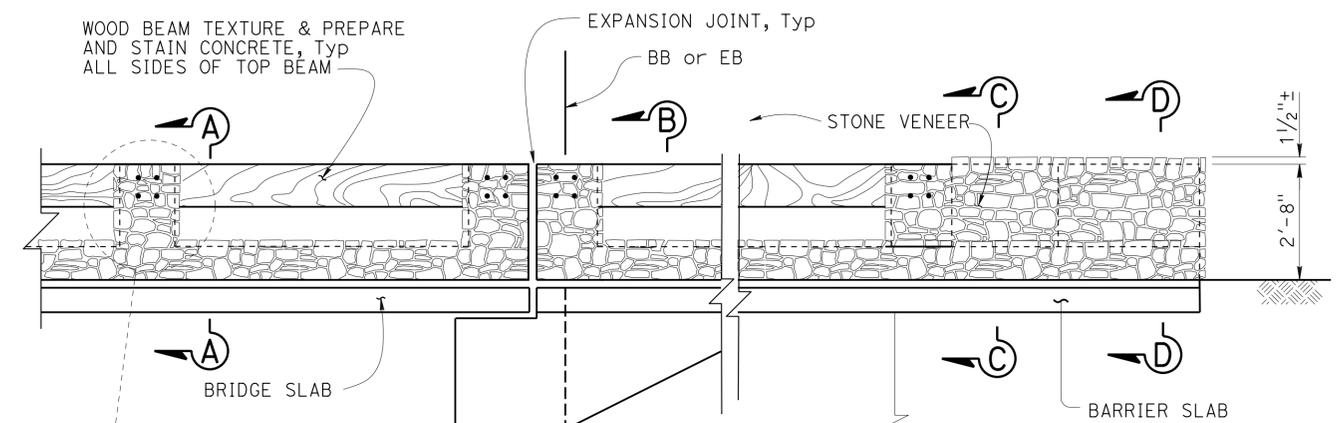
CIVIL

STATE OF CALIFORNIA

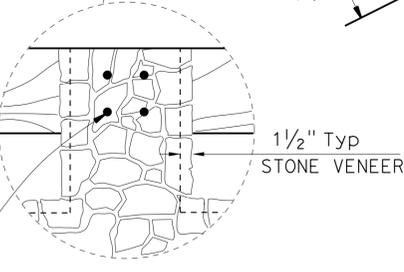
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



INTERIOR ELEVATION
no scale

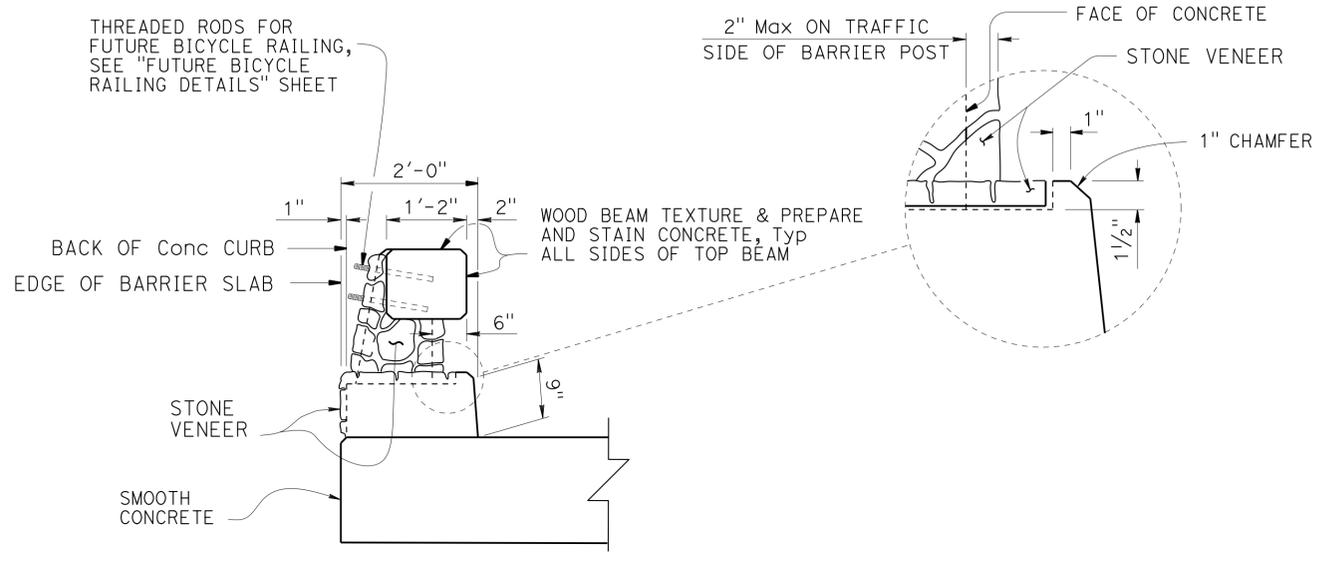


EXTERIOR ELEVATION
no scale

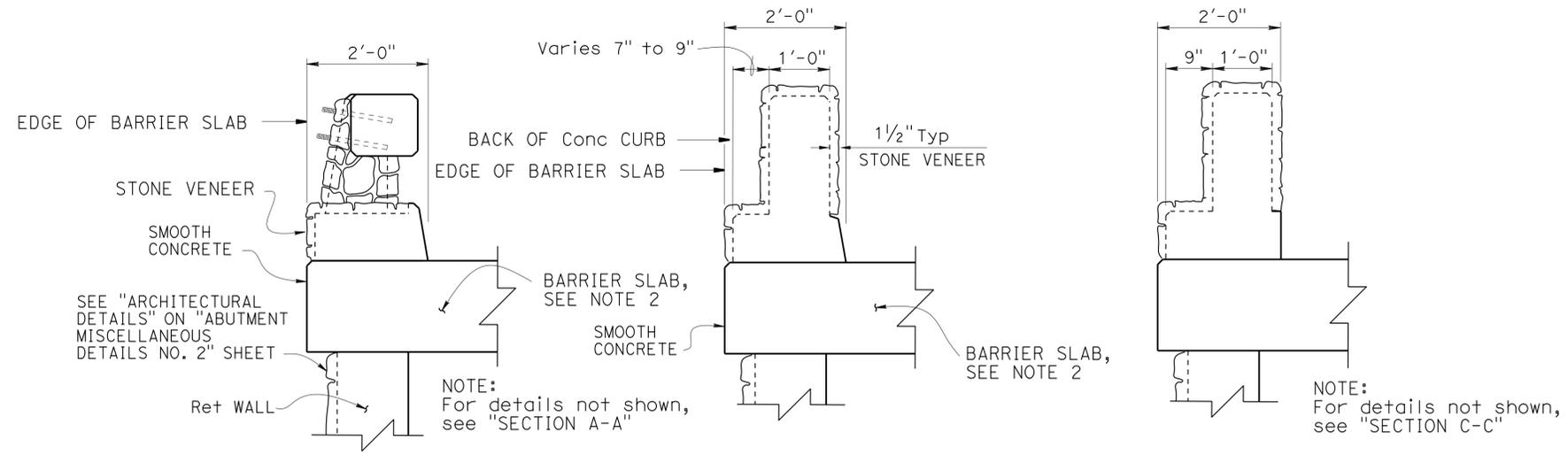


- NOTES:
1. For details not shown, see REVISED STANDARD PLAN B11-60
 2. For Barrier Slab details, see "CONCRETE BARRIER SLAB DETAIL" on "ABUTMENT 1 DETAILS NO. 3" sheet.

THREADED RODS FOR FUTURE BICYCLE RAILING, Typ (SEE "FUTURE BICYCLE RAILING DETAILS" SHEET)



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



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

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

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

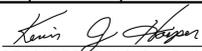
DESIGN	BY Kevin Harper	CHECKED Kyoung Lee
DETAILS	BY B.Jenko / B.Huddleston	CHECKED Kyoung Lee
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	01-0080	MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
POST MILE	24.04	
CONCRETE BARRIER TYPE 80 (MOD) NO. 1		

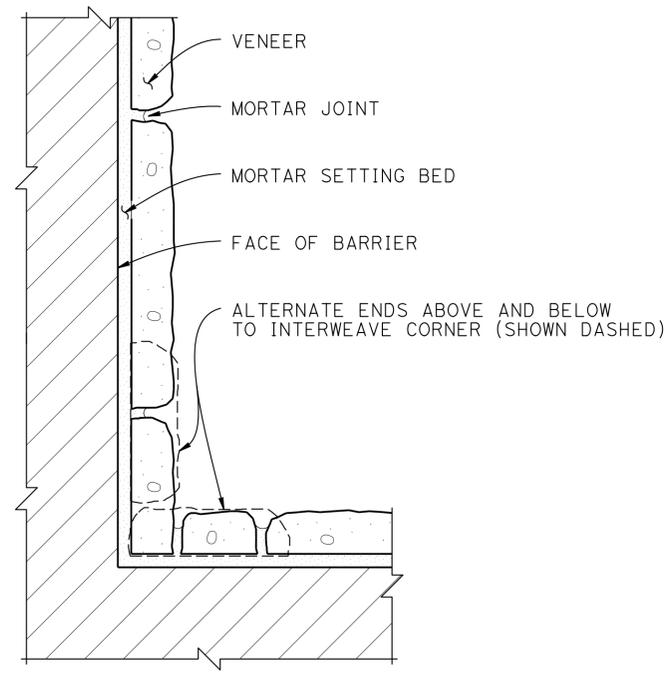
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	132	184

 3/20/13
 REGISTERED CIVIL ENGINEER DATE

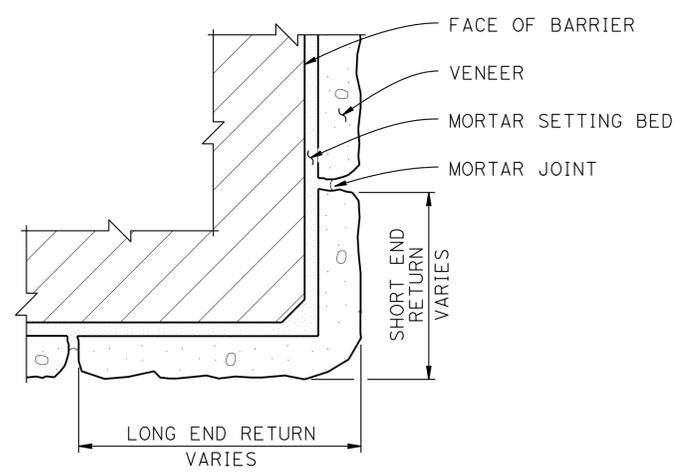
6-24-13
 PLANS APPROVAL DATE

Kevin Harper
 No. 42221
 Exp. 3/31/14
 CIVIL
 STATE OF CALIFORNIA

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INSIDE CORNER DETAIL



OUTSIDE CORNER DETAIL

MANUFACTURED STONE VENEER TEXTURE
NO SCALE

NOTE: The average installed thickness of the stone veneer shall be approximately 1 1/2".

DESIGN	BY Stephan Heath	CHECKED Kevin Harper
DETAILS	BY Bob Huddleston	CHECKED Kevin Harper
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	01-0080
POST MILE	24.04

MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)
CONCRETE BARRIER TYPE 80 (Mod) No. 2



REVISION DATES	SHEET	OF
1-28-13 3-18-13	46	64

USERNAME => s124486 DATE PLOTTED => 22-JUN-2013 TIME PLOTTED => 06:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	133	184

Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE

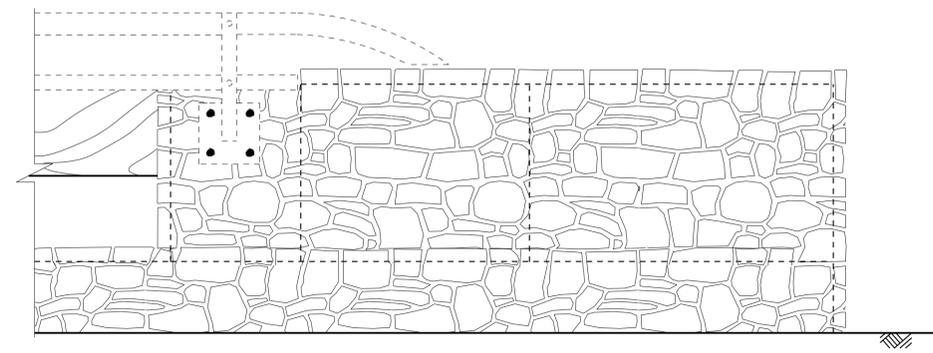
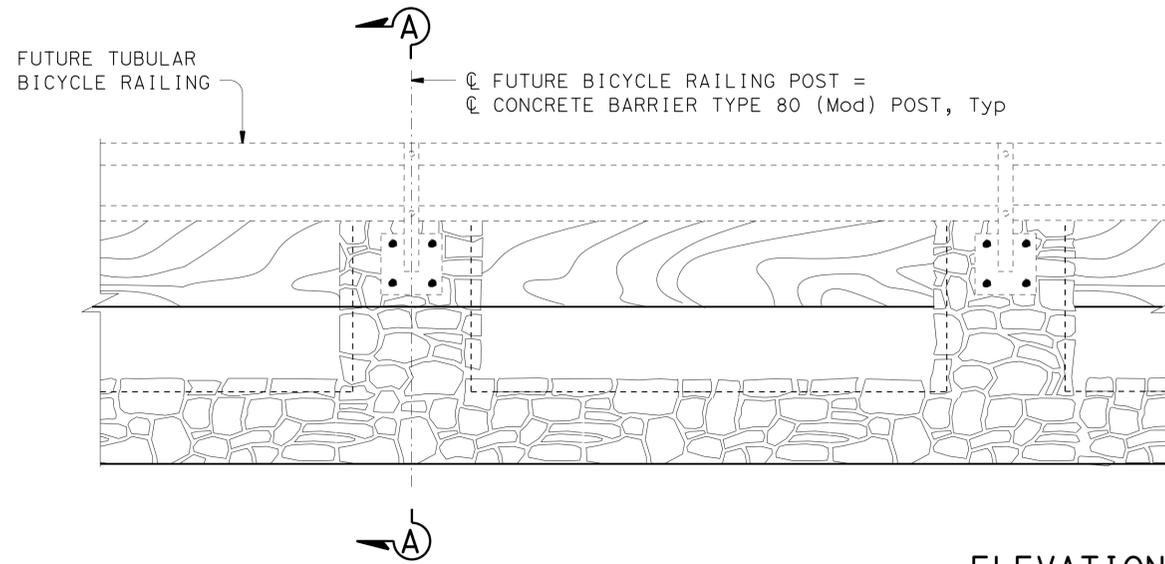
6-24-13
 PLANS APPROVAL DATE

Kevin Harper
 No. 42221
 Exp. 3/31/14
 CIVIL
 STATE OF CALIFORNIA

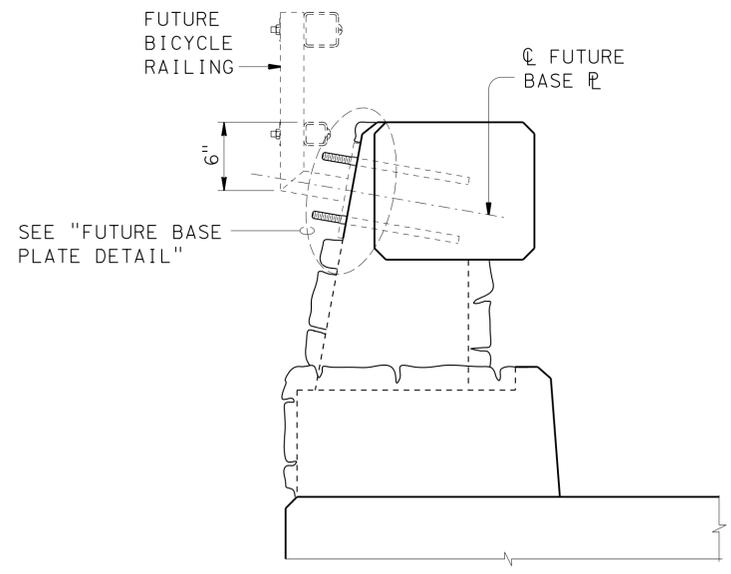
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

NOTES:

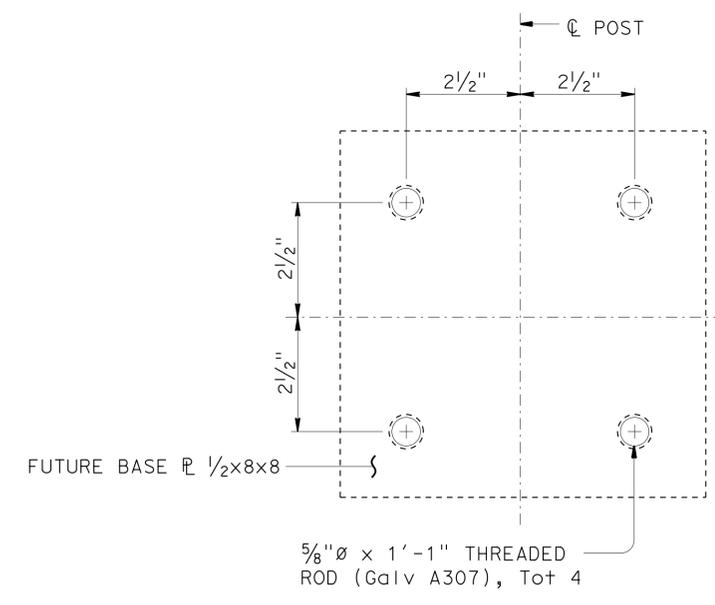
- For details not shown see "CONCRETE BARRIER TYPE 80 (MOD)" sheet.
- Place rock veneer around threaded rods in the area of the future base plate.



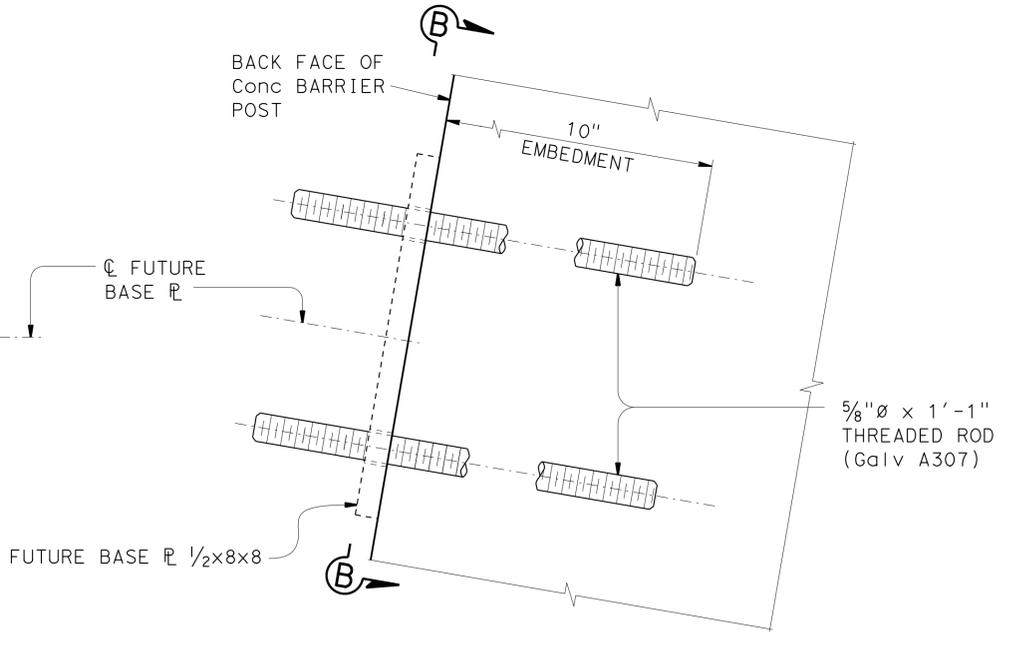
ELEVATION
1" = 1'-0"



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



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



FUTURE BASE PLATE DETAIL
6" = 1'-0"

NOTE: Rock veneer is shown removed in area of future base plate for attachment of bicycle railing. See Note 2.

NOTE: Rock veneer not shown

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Kevin Harper	CHECKED Kyoung Lee	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO.	01-0080	MIDDLE FORK SMITH RIVER BRIDGE (REPLACE) FUTURE BICYCLE RAILING DETAILS	
	DETAILS	BY B.Jenko / B.Huddleston	CHECKED Kyoung Lee			POST MILE	24.04		
	QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak			UNIT: 3576	PROJECT NUMBER & PHASE: 01 0000 03711		CONTRACT NO.: 01-479404
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 3-19-12 3-11-13 1-31-13	SHEET 47 OF 64

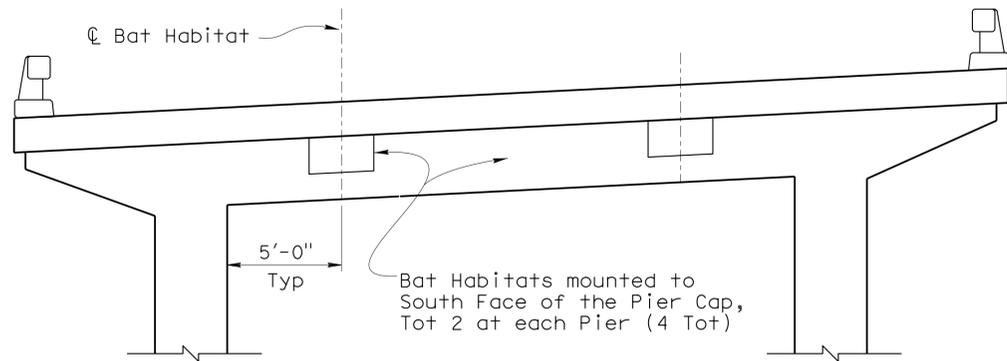
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	134	184

Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE

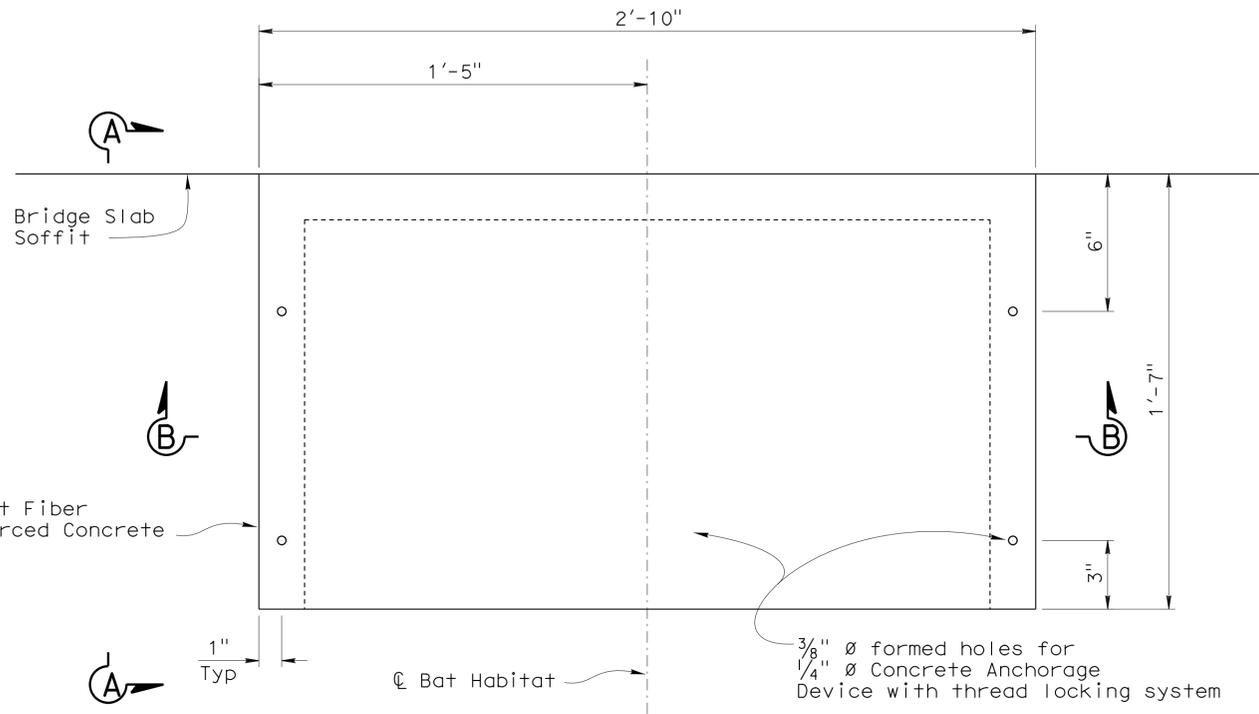
6-24-13
 PLANS APPROVAL DATE

Kevin Harper
 No. 42221
 Exp. 3/31/14
 CIVIL
 STATE OF CALIFORNIA

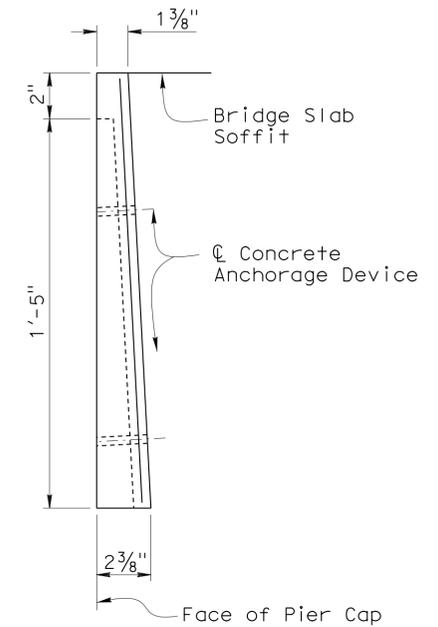
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



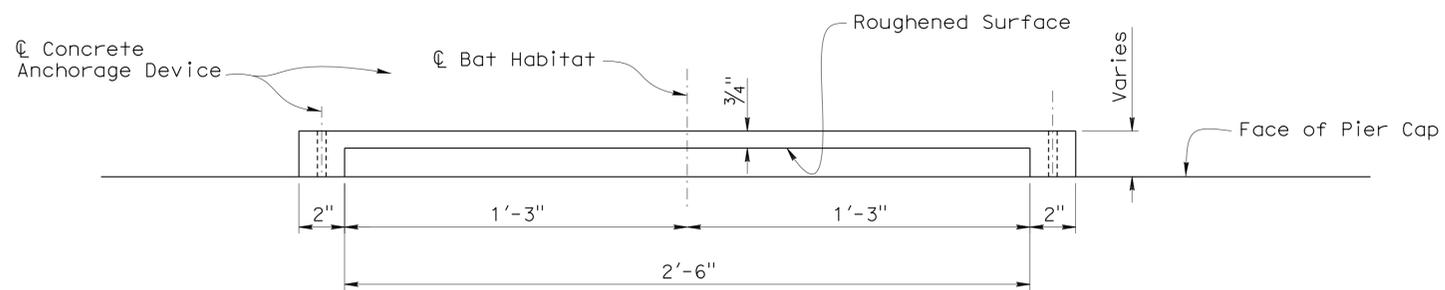
ELEVATION PIER 6 & 11
1/4" = 1'-0"



BAT HABITAT ELEVATION
3" = 1'-0"



VIEW A-A
3" = 1'-0"



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

DESIGN	BY Kevin Harper	CHECKED Kyoung Lee
DETAILS	BY Minh Tran	CHECKED Kyoung Lee
QUANTITIES	BY Greg Thornton	CHECKED Vadim Shostak

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	01-0080
POST MILE	24.04

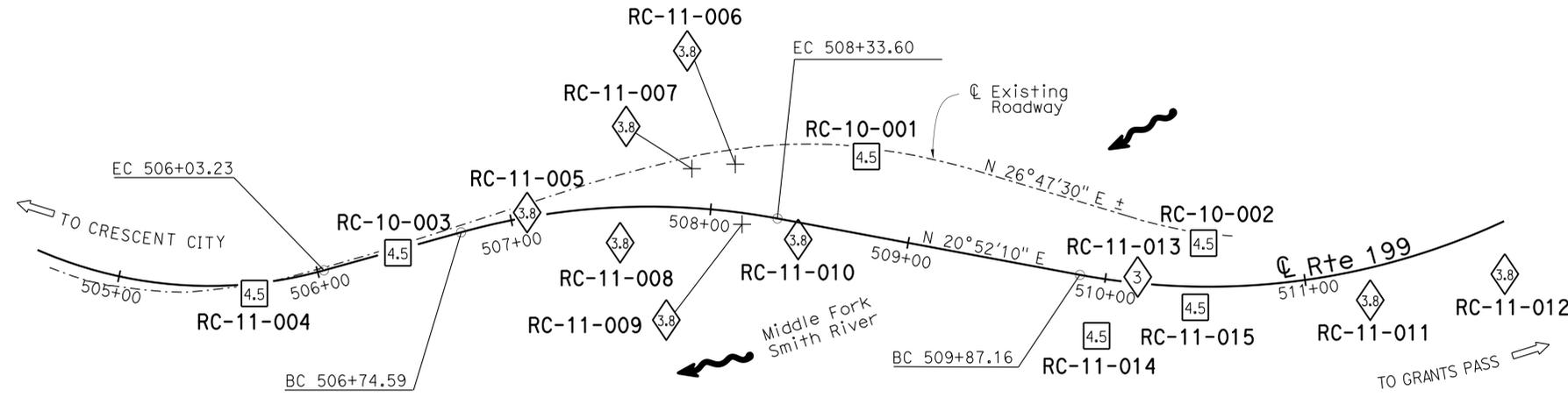
MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)

BAT HABITAT DETAILS

BENCH MARK

DN199-24.00
 Fnd 2 1/4" Brass Disk, Stamped "EG"
 31.02' Rt "A" Line, C Rte 199
 Sta 504+41.62
 N 2,572,846.34
 E 6,064,048.03
 Elev 958.76'
 NAVD88

DN199-24.20
 Fnd 1 1/2" Alum cap on 3/4" Rebar
 25.31 Rt "A" Line, C Rte 199
 Sta 515+01.76
 N 2,573,897.92
 E 6,064,118.92
 Elev 960.50'
 NAVD88



PLAN
 1" = 40'

Notes:

- All borings were advanced using a self-casing wireline drill system.
- Groundwater was measured during the field investigation in Borings RC-10-002, RC-10-003, RC-11-004, and RC-11-007. Please refer to these borings for groundwater level measurements. During the field investigation, groundwater was not measured in the remaining borings. These borings were immediately backfilled after completion of the drilling operations.
- Groundwater levels indicated on the Log of Test Borings (LOTB) sheets reflect the measured groundwater levels in the boring on the specified date. Groundwater surface elevations are subject to seasonal fluctuations and will be encountered at higher or lower elevations depending upon conditions at time of construction.
- During the field investigation, circulation was lost in borings RC-11-008, RC-11-009, RC-11-014, RC-11-013, and RC-11-015. Drilling was stopped and 4" (diameter) casing was installed in Borings RC-11-014, RC-11-013, and RC-11-015. A 5" (diameter) casing was installed in Borings RC-11-008 and RC-11-009. Refer to the LOTB sheets for casing elevations. Drilling was resumed once casing was installed.
- During the 2010 subsurface investigation, Boring RC-10-001 was drilled to a depth of 100 feet (elevation of 848.6 feet), 25 feet short of the planned depth. During the drilling operation, the 3.75-inch diameter steel drill rod became detached at a depth of thirty feet. The seventy feet of drill rod remains in the ground.
- During the 2011 field investigation, grouted hard and very hard boulder size Rock Slope Protection (RSP) was encountered in Borings RC-11-009 and RC-11-010. A void was encountered in the RSP in Boring RC-11-010.
- Hard and very hard boulders and cobbles were encountered at various elevations during the subsurface investigation.
- Rock core samples from the 2010 and 2011 subsurface investigations are available for viewing by the bidders at the California Department of Transportation, 5900 Folsom Blvd., Sacramento, Ca.
- During the 2010 and 2011 subsurface investigations, rock samples were collected from several borings and submitted to the laboratory for strength testing. Laboratory rock strength test data is available for viewing at the California Department of Transportation, 5900 Folsom Blvd., Sacramento, Ca.
- UC= Unconfined Compression Strength Test result performed by the Caltrans Laboratory. UC** for which the test specimen length/diameter ratio was not in compliance with the ASTM D 7012 test method. These test results are shown for information purposes only.
- Ⓟ = Point Load Index Test. Ⓟ** for which the test specimen length/diameter ratio was not in compliance with the ASTM D 5731 test method. These test results are shown for information purposes only. These test results are included in the Appendix of the Foundation Report.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	135	184

Jacqueline A. Martin 9-6-12
 PROFESSIONAL GEOLOGIST DATE
 6-24-13
 PLANS APPROVAL DATE
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This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition). See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1		MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)	
FUNCTIONAL SUPERVISOR NAME: R. Buehl	DRAWN BY: I.G-Remmen CHECKED BY: J. Kaump	FIELD INVESTIGATION BY: J. A. Martin		BRIDGE NO. 01-0080 POST MILE 24.04		CONTRACT NO.: 01-479404		LOG OF TEST BORINGS 1 OF 16	
OGS CIVIL LOG OF TEST BORINGS SHEET				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643 PROJECT NUMBER & PHASE: 01000003711		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
				0 1 2 3		REVISION DATES		SHEET 49 OF 64	

USERNAME => s124496 DATE PLOTTED => 22-JUN-2013 TIME PLOTTED => 06:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	138	184

Jacqueline A. Martin 9-6-12
 PROFESSIONAL GEOLOGIST DATE
 6-24-13
 PLANS APPROVAL DATE
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PROFESSIONAL GEOLOGIST
 Jacqueline A. Martin
 No. 8705
 Exp. 10-31-12
 STATE OF CALIFORNIA

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 16"

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition). See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.



PROFILE
 Horiz: 1" = 10'
 Vert: 1" = 10'

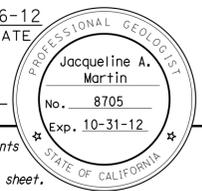
ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)	
FUNCTIONAL SUPERVISOR		DRAWN BY: C. Christian I.G-Remmen		FIELD INVESTIGATION BY:		BRIDGE NO.		LOG OF TEST BORINGS 4 OF 16	
NAME: R. Buehl		CHECKED BY: J. Kaump		J. A. Martin		01-0080			
						POST MILE			
						24.04			
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		PROJECT NUMBER & PHASE: 01000003711		CONTRACT NO.: 01-479404	
						DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	
								01-19-12 01-21-12 08-08-12	
								SHEET 52 OF 64	

USERNAME => s124496 DATE PLOTTED => 22-JUN-2013 TIME PLOTTED => 06:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	139	184

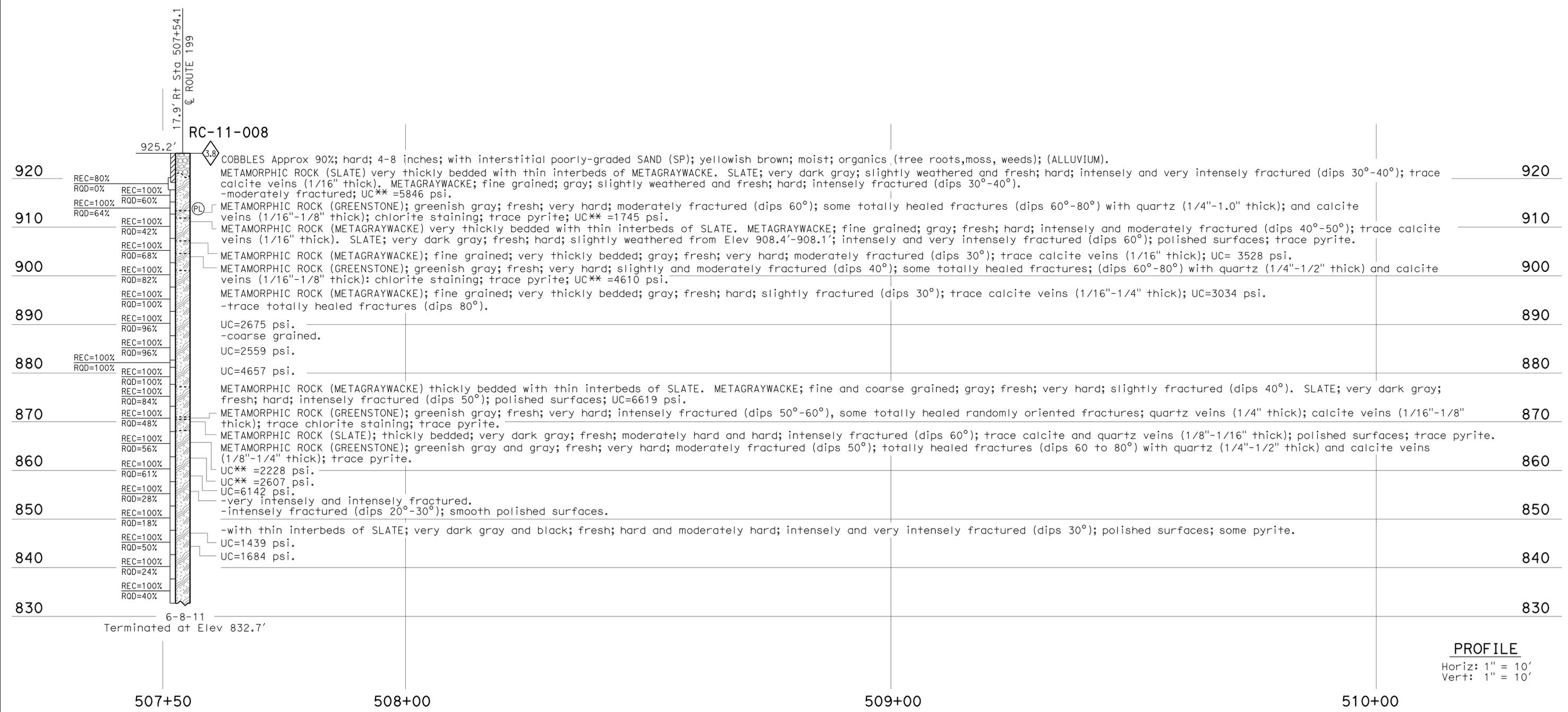
Jacqueline A. Martin 9-6-12
 PROFESSIONAL GEOLOGIST DATE
 6-24-13
 PLANS APPROVAL DATE

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FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 16"

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition). See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.



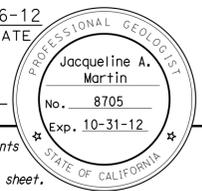
PROFILE
Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1		BRIDGE NO. 01-0080 POST MILE 24.04		MIDDLE FORK SMITH RIVER BRIDGE (REPLACE) LOG OF TEST BORINGS 5 OF 16	
FUNCTIONAL SUPERVISOR NAME: R. Buehl		DRAWN BY: C. Christian I.G-Remmen CHECKED BY: J. Kaump		FIELD INVESTIGATION BY: J. A. Martin		UNIT: 3643 PROJECT NUMBER & PHASE: 01000003711		CONTRACT NO.: 01-479404		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		REVISION DATES: 07-18-12 07-31-12 08-08-12		SHEET 53 OF 64		FILE => 01-0080-Z-1+b05.dgn	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	140	184

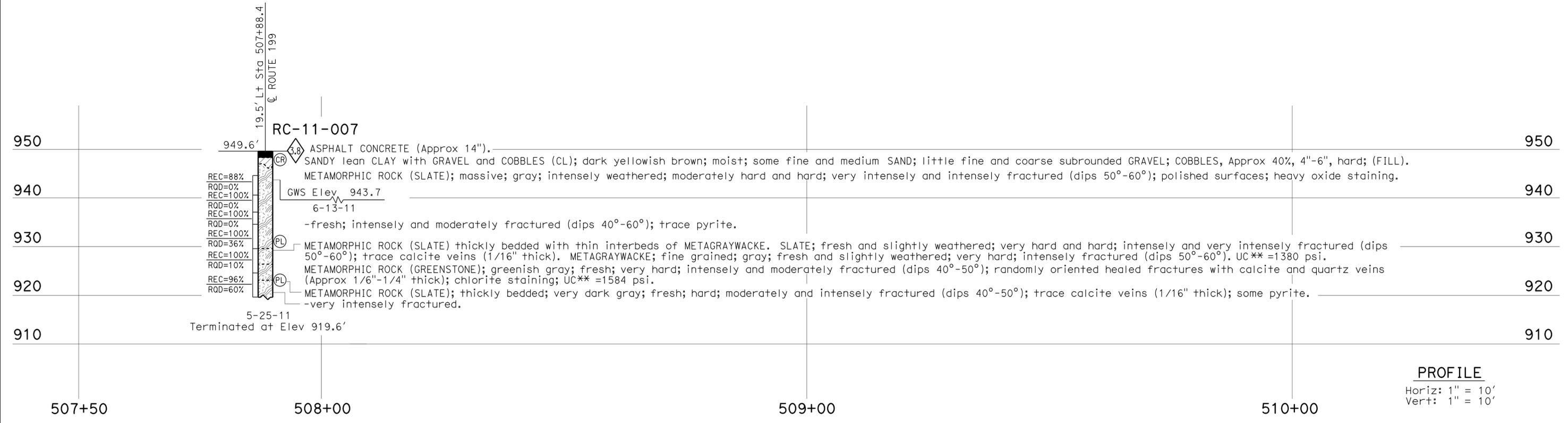
Jacqueline A. Martin 9-6-12
 PROFESSIONAL GEOLOGIST DATE
 6-24-13
 PLANS APPROVAL DATE

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FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 16"



ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)	
FUNCTIONAL SUPERVISOR		DRAWN BY: C. Christian I.G-Remmen		FIELD INVESTIGATION BY:		BRIDGE NO.		LOG OF TEST BORINGS 6 OF 16	
NAME: R. Buehl		CHECKED BY: J. Kaump		J. A. Martin		01-0080			
OGS CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		POST MILE		REVISION DATES	
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				CONTRACT NO.: 01-479404		DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET 54 OF 64	

USERNAME => s117606 DATE PLOTTED => 22-JUN-2013 TIME PLOTTED => 06:48

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	141	184

Jacqueline A. Martin 9-6-12
 PROFESSIONAL GEOLOGIST DATE
 6-24-13
 PLANS APPROVAL DATE
 No. 8705
 Exp. 10-31-12
 STATE OF CALIFORNIA
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FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 16"



This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition). See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

PROFILE

Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)	
FUNCTIONAL SUPERVISOR		DRAWN BY: C. Christian I.G-Remmen		DEPARTMENT OF TRANSPORTATION		BRIDGE NO. 01-0080		LOG OF TEST BORINGS 7 OF 16	
NAME: R. Buehl		CHECKED BY: J. Kaump		FIELD INVESTIGATION BY: J. A. Martin		DESIGN BRANCH 1			
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		POST MILE 24.04		CONTRACT NO.: 01-479404	
				PROJECT NUMBER & PHASE: 01000003711		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	
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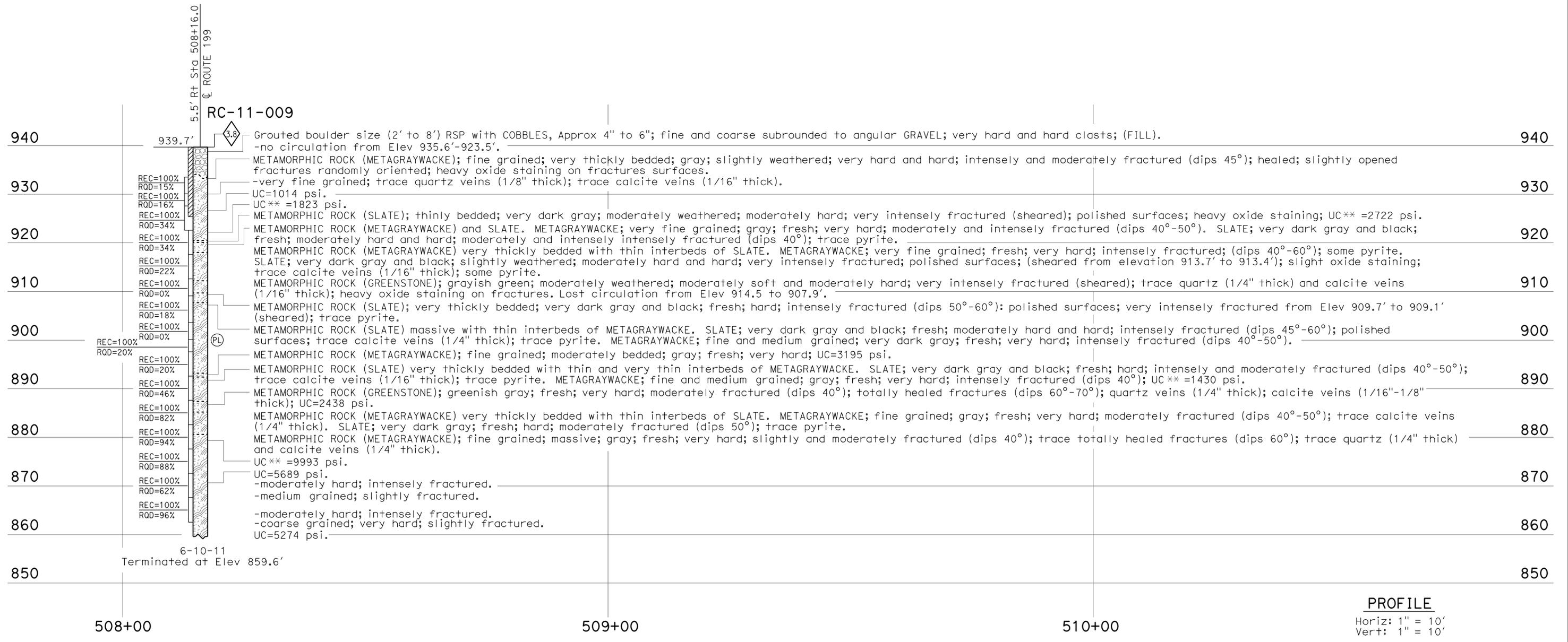
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	142	184

Jacqueline A. Martin 9-6-12
 PROFESSIONAL GEOLOGIST DATE
 6-24-13
 PLANS APPROVAL DATE
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FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 16"

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition). See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.



ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)	
FUNCTIONAL SUPERVISOR		DRAWN BY: C. Christian I.G-Remmen		FIELD INVESTIGATION BY:		BRIDGE NO.		LOG OF TEST BORINGS 8 OF 16	
NAME: R. Buehl		CHECKED BY: J. Kaump		J. A. Martin		01-0080			
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		POST MILE		REVISION DATES	
		0 1 2 3		PROJECT NUMBER & PHASE: 01000003711		24.04		07-14-12 07-31-12 08-08-12	
				CONTRACT NO.: 01-479404				SHEET 56 OF 64	

FILE => 01-0080-Z-1+D08.dgn

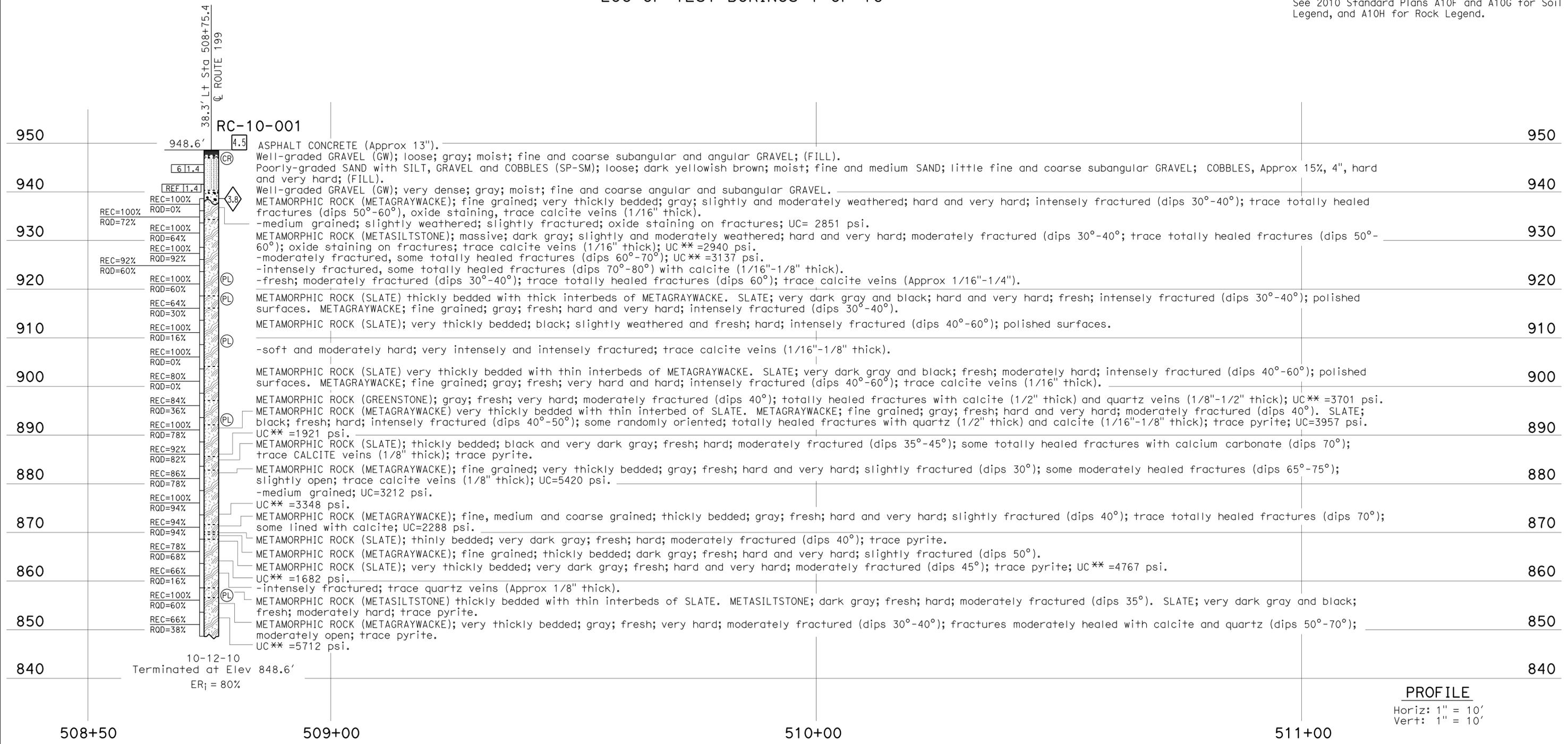
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	144	184

Jacqueline A. Martin 9-6-12
 PROFESSIONAL GEOLOGIST DATE
 6-24-13
 PLANS APPROVAL DATE

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FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 16"

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition). See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.



ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1		BRIDGE NO. 01-0080 POST MILE 24.04		MIDDLE FORK SMITH RIVER BRIDGE (REPLACE) LOG OF TEST BORINGS 10 OF 16	
FUNCTIONAL SUPERVISOR NAME: R. Buehl		DRAWN BY: C. Christian I.G-Remmen CHECKED BY: J. Kaump		FIELD INVESTIGATION BY: J. A. Martin		PROJECT NUMBER & PHASE: 01000003711		CONTRACT NO.: 01-479404		REVISION DATES SHEET 58 OF 64	

065 CIVIL LOG OF TEST BORINGS SHEET ORIGINAL SCALE IN INCHES FOR REDUCED PLANS UNIT: 3643 FILE => 01-0080-Z-1+10.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	145	184

Jacqueline A. Martin 9-6-12
 PROFESSIONAL GEOLOGIST DATE
 6-24-13
 PLANS APPROVAL DATE
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PROFESSIONAL GEOLOGIST
 Jacqueline A. Martin
 No. 8705
 Exp. 10-31-12
 STATE OF CALIFORNIA

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 16"

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition). See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.



PROFILE
 Horiz: 1" = 10'
 Vert: 1" = 10'

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)	
FUNCTIONAL SUPERVISOR		DRAWN BY: C. Christian I.G-Remmen		FIELD INVESTIGATION BY:		BRIDGE NO.		LOG OF TEST BORINGS 11 OF 16	
NAME: R. Bueil		CHECKED BY: J. Kaump		J. A. Martin		01-0080			
						POST MILE			
						24.04			
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		PROJECT NUMBER & PHASE: 01000003711		CONTRACT NO.: 01-479404	
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								REVISION DATES	
								07-14-12 07-31-12 08-08-12	
								SHEET 59 OF 64	

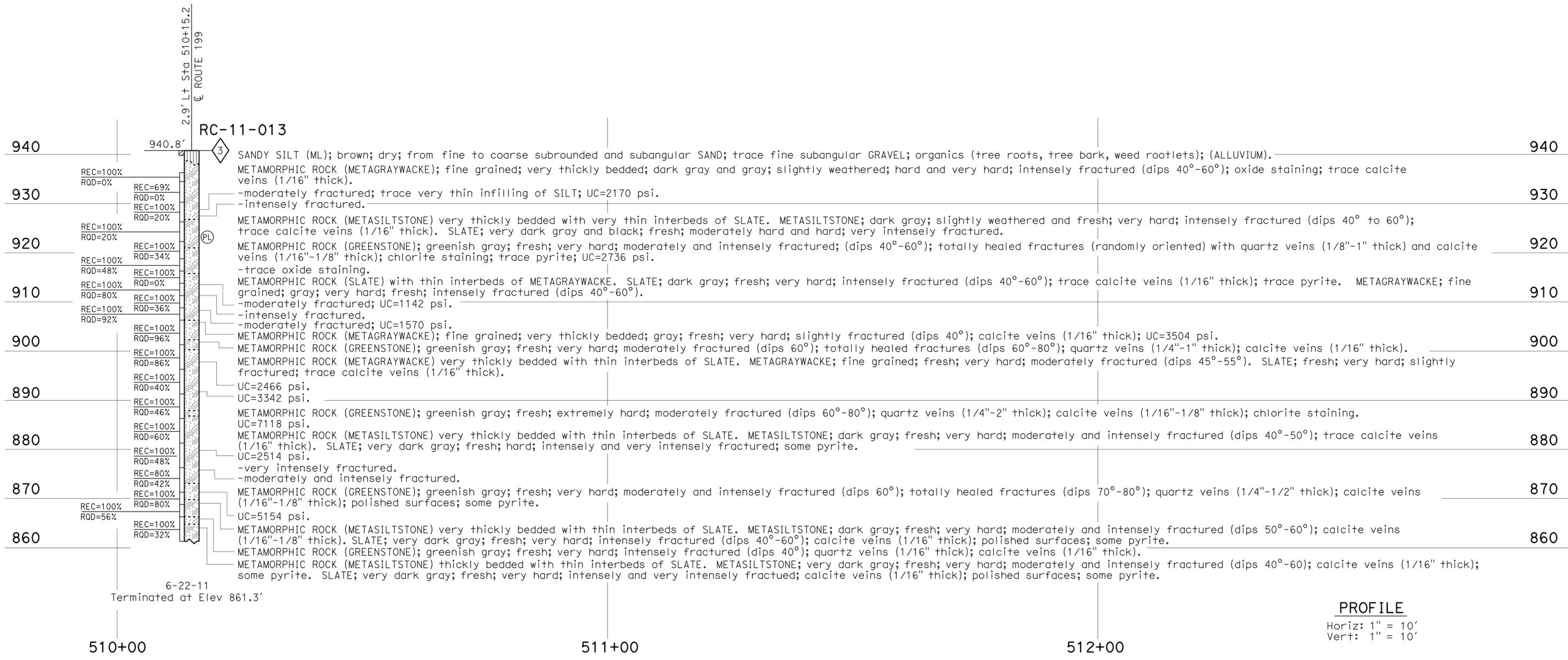
USERNAME => s117606 DATE PLOTTED => 22-JUN-2013 TIME PLOTTED => 06:49

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	146	184

Jacqueline A. Martin 9-6-12
 PROFESSIONAL GEOLOGIST DATE
 6-24-13
 PLANS APPROVAL DATE

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FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 16"



ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1		BRIDGE NO. 01-0080 POST MILE 24.04		MIDDLE FORK SMITH RIVER BRIDGE (REPLACE) LOG OF TEST BORINGS 12 OF 16	
FUNCTIONAL SUPERVISOR NAME: R. Buehl		DRAWN BY: C. Christian I.G-Remmen CHECKED BY: J. Kaump		FIELD INVESTIGATION BY: J. A. Martin		UNIT: 3643 PROJECT NUMBER & PHASE: 01000003711		CONTRACT NO.: 01-479404		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
OGS CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		REVISION DATES 07-18-12 07-17-12 08-08-12		SHEET 60 OF 64		FILE => 01-0080-Z-1+D12.dgn	

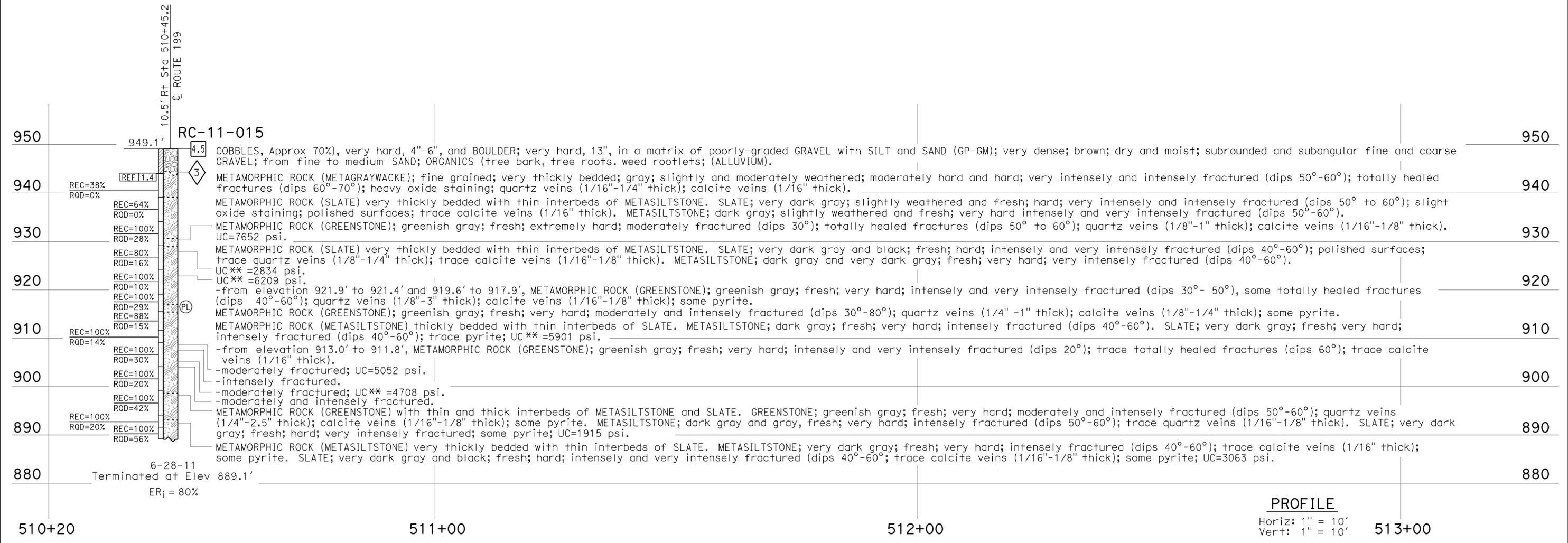
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	147	184

Jacqueline A. Martin 9-6-12
 PROFESSIONAL GEOLOGIST DATE
 6-24-13
 PLANS APPROVAL DATE

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This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition). See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 16"



ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)	
FUNCTIONAL SUPERVISOR		DRAWN BY: C. Christian I.G-Remmen		FIELD INVESTIGATION BY:		PROJECT NUMBER & PHASE: 01000003711		01-0080		LOG OF TEST BORINGS 13 OF 16	
NAME: R. Buehl		CHECKED BY: J. Kaump		J. A. Martin		CONTRACT NO.: 01-479404		24.04		REVISION DATES	
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		UNIT: 3643		DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF	
						FILE => 01-0080-Z-1+D13.dgn				61 64	

USERNAME => s117606 DATE PLOTTED => 22-JUN-2013 TIME PLOTTED => 06:49

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	149	184

Jacqueline A. Martin 9-6-12
PROFESSIONAL GEOLOGIST DATE

6-24-13
PLANS APPROVAL DATE

Jacqueline A. Martin
No. 8705
Exp. 10-31-12

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FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 16"



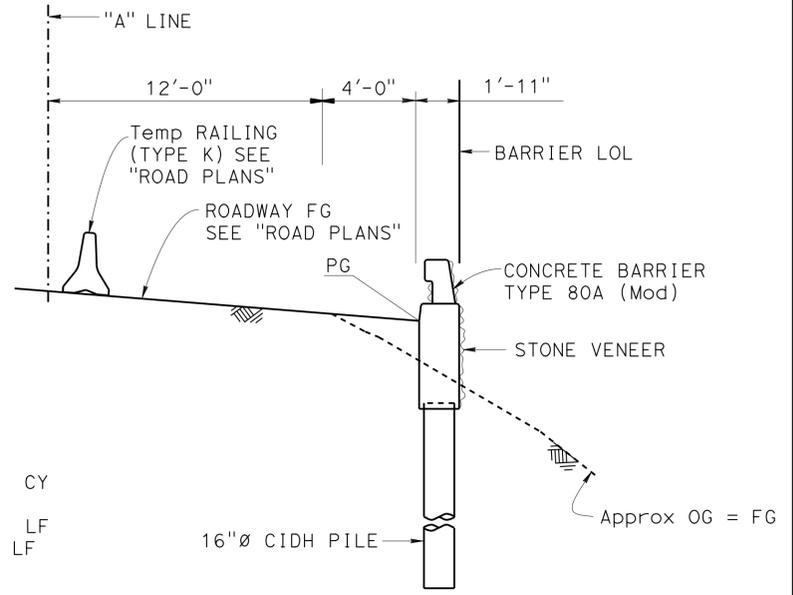
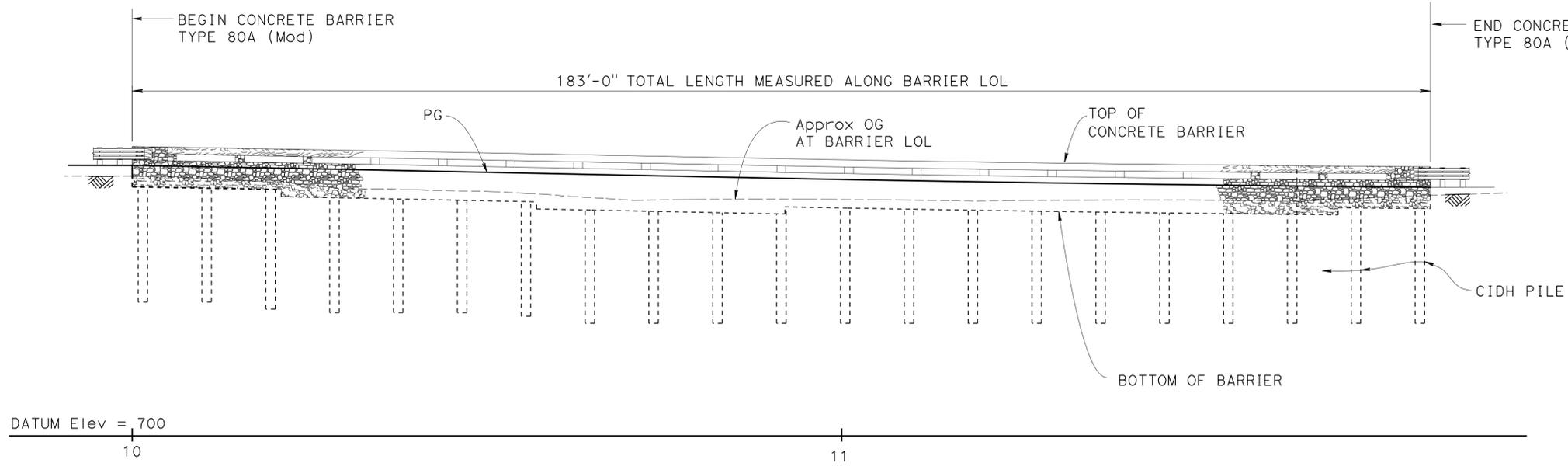
ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		MIDDLE FORK SMITH RIVER BRIDGE (REPLACE)	
FUNCTIONAL SUPERVISOR		DRAWN BY: C. Christian I.G-Remmen		DEPARTMENT OF TRANSPORTATION		BRIDGE NO. 01-0080		LOG OF TEST BORINGS 15 OF 16	
NAME: R. Buehl		CHECKED BY: J. Kaump		FIELD INVESTIGATION BY: J. A. Martin		DESIGN BRANCH 1			
06S CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		PROJECT NUMBER & PHASE: 01000003711		CONTRACT NO.: 01-479404	
				0 1 2 3		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	
								07-19-12 07-31-12 08-08-12	
								SHEET 63 OF 64	

USERNAME => S117606 DATE PLOTTED => 22-JUN-2013 TIME PLOTTED => 06:49

FILE => 01-0080-Z-1+D15.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	151	184

Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE
 Kevin Harper
 No. 42221
 Exp. 3-31-14
 CIVIL
 STATE OF CALIFORNIA
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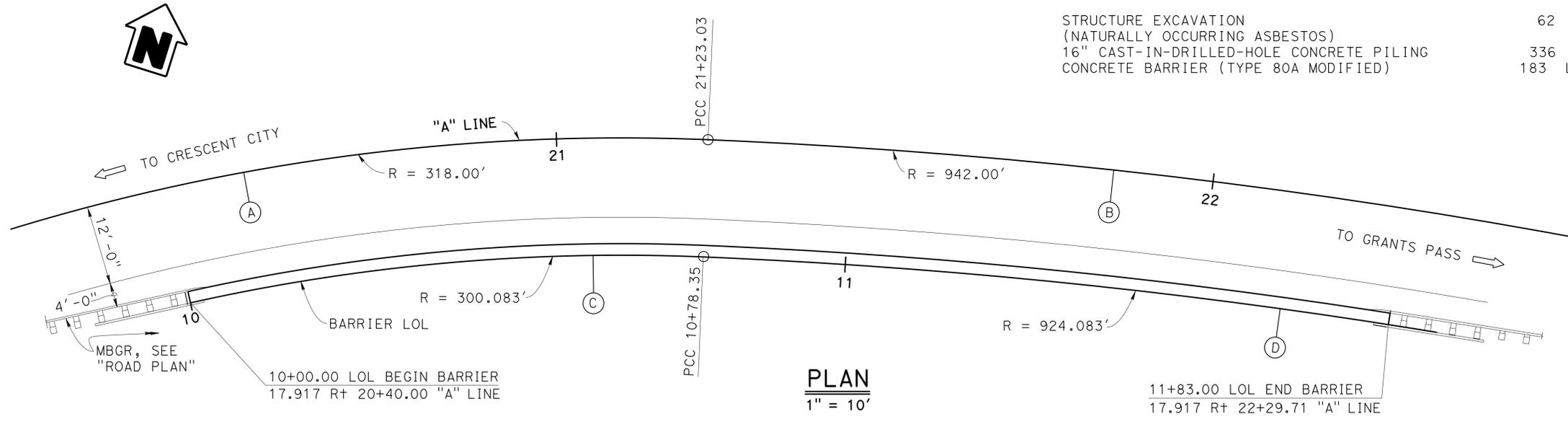


MIRRORED DEVELOPED ELEVATION
1" = 10'

QUANTITIES

STRUCTURE EXCAVATION (NATURALLY OCCURRING ASBESTOS)	62	CY
16" CAST-IN-DRILLED-HOLE CONCRETE PILING	336	LF
CONCRETE BARRIER (TYPE 80A MODIFIED)	183	LF

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



"A" LINE CURVE DATA

CURVE (A)	CURVE (B)
R = 318.00'	R = 942.00'
Δ = 41°11'13"	Δ = 42°41'24"
L = 228.59'	L = 701.86'
T = 119.49'	T = 368.12'

BARRIER LOL CURVE DATA

CURVE (C)	CURVE (D)
R = 300.083'	R = 924.083'
Δ = 14°57'34"	Δ = 6°29'19"
L = 78.35'	L = 104.65'
T = 39.40'	T = 52.38'

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	STRUCTURE PLAN NO. 1
3	STRUCTURE PLAN NO. 2
4	FOUNDATION PLAN
5	CONCRETE BARRIER TYPE 80A (Mod) No. 1
6	CONCRETE BARRIER TYPE 80A (Mod) No. 2
7	CONCRETE BARRIER TYPE 80A (Mod) No. 3
8	FUTURE BICYCLE RAILING DETAILS
9	LOG OF TEST BORINGS

STANDARD PLANS 2010

A10A	ABBREVIATIONS (SHEET 1 OF 2)
A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A10H	LEGEND - ROCK
RSP B11-60	CONCRETE BARRIER TYPE 80

NOTE: For General Notes, see "CONCRETE BARRIER TYPE 80 (Mod) No.1" sheet.

Jeff Sims DESIGN ENGINEER	DESIGN BY April Pearson	CHECKED Eric Watson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO.	KELLY CREEK BARRIER GENERAL PLAN
	DETAILS BY Bruno /J. Zhou/F. Rashed	CHECKED Eric Watson			LAYOUT BY April Pearson	
	QUANTITIES BY Kevin Harper	CHECKED Eric Watson	SPECIFICATIONS BY Dave Klein	PLANS AND SPECS COMPARED Dave Klein	20.53	

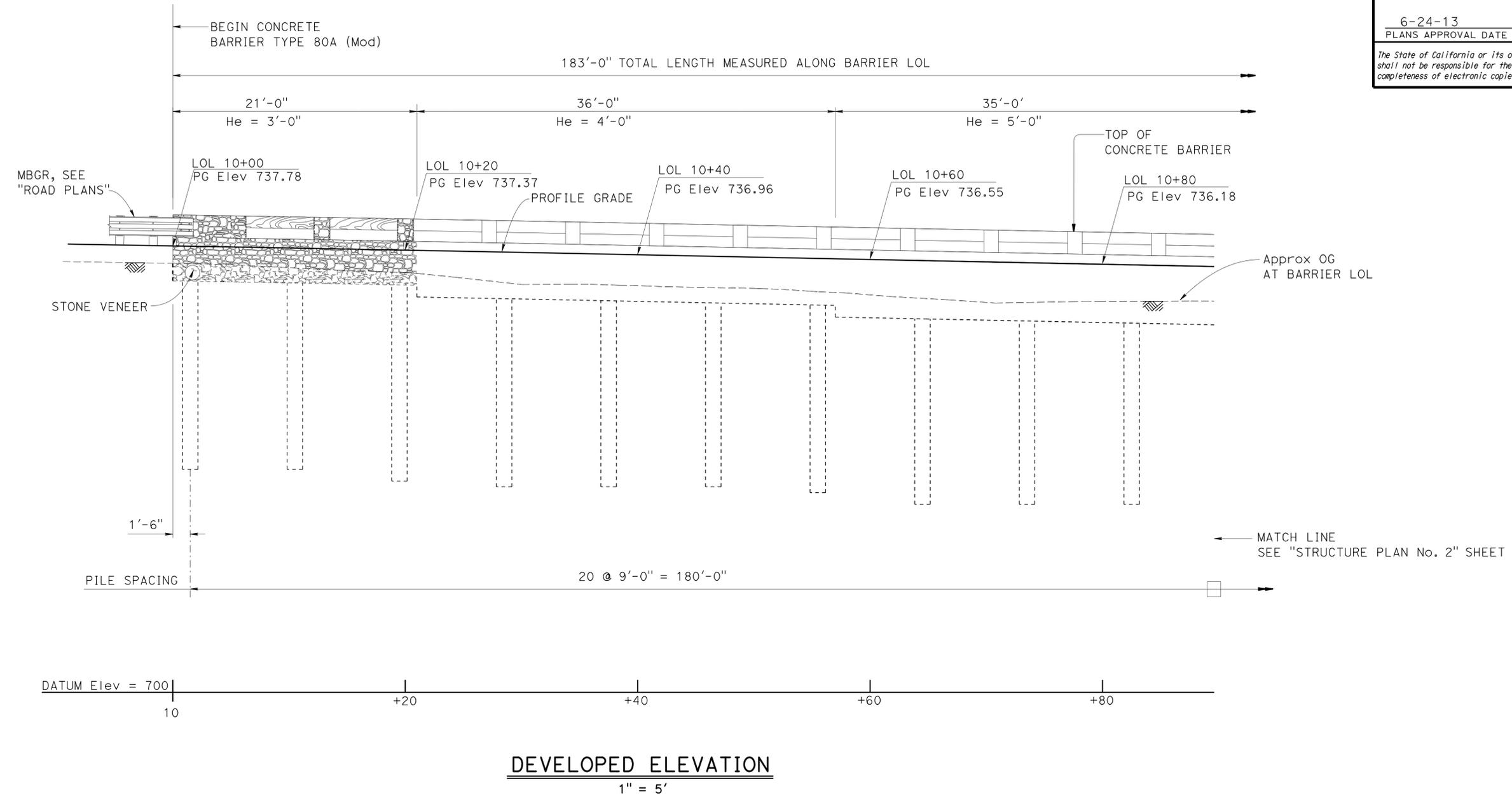
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS UNIT: 3576 PROJECT NUMBER & PHASE: 01000003711 CONTRACT NO.: 01-479404 DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
4/16/13	1	9

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.09-01-10) FILE => kelbarr-a-gp01.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	152	184

Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE
 Kevin Happer
 No. 42221
 Exp. 3-31-14
 CIVIL
 STATE OF CALIFORNIA
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DEVELOPED ELEVATION
1" = 5'

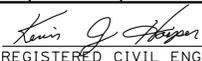
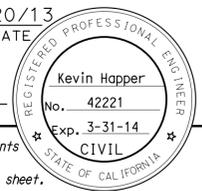
DESIGN	BY A. Pearson	CHECKED Eric Watson
DETAILS	BY J. Zhou	CHECKED Eric Watson
QUANTITIES	BY Kevin Harper	CHECKED Eric Watson

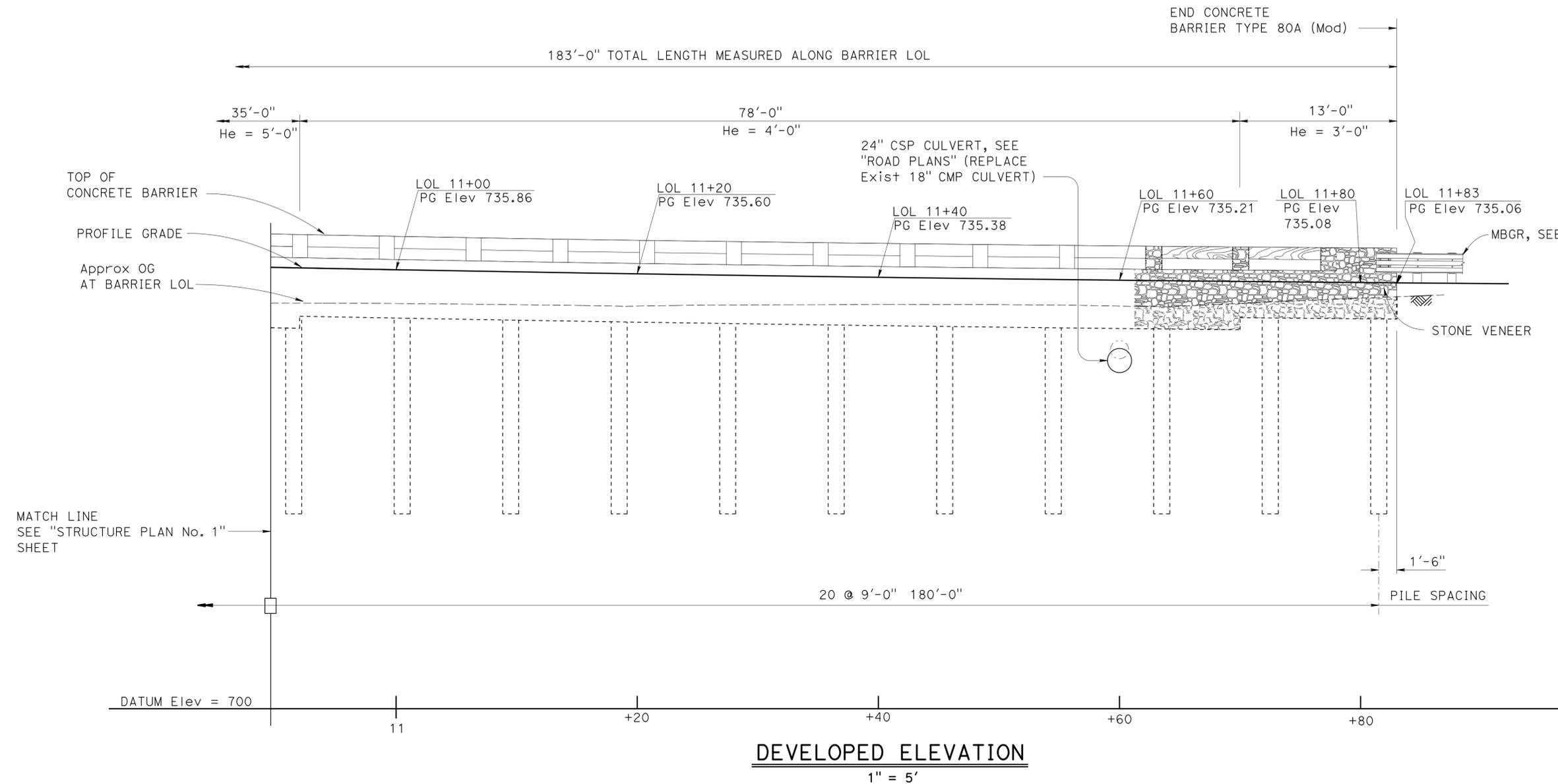
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	
POST MILE	20.53

KELLY CREEK BARRIER
STRUCTURE PLAN No. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	153	184
 REGISTERED CIVIL ENGINEER			3/20/13 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>					



DESIGN	BY A. Pearson	CHECKED Eric Watson
DETAILS	BY J. Zhou	CHECKED Eric Watson
QUANTITIES	BY Kevin Harper	CHECKED Eric Watson

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	
POST MILE	20.53

KELLY CREEK BARRIER
STRUCTURE PLAN No. 2

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3576
PROJECT NUMBER & PHASE: 01000003711

CONTRACT NO.: 01-479404

DISREGARD PRINTS BEARING EARLIER REVISION DATES

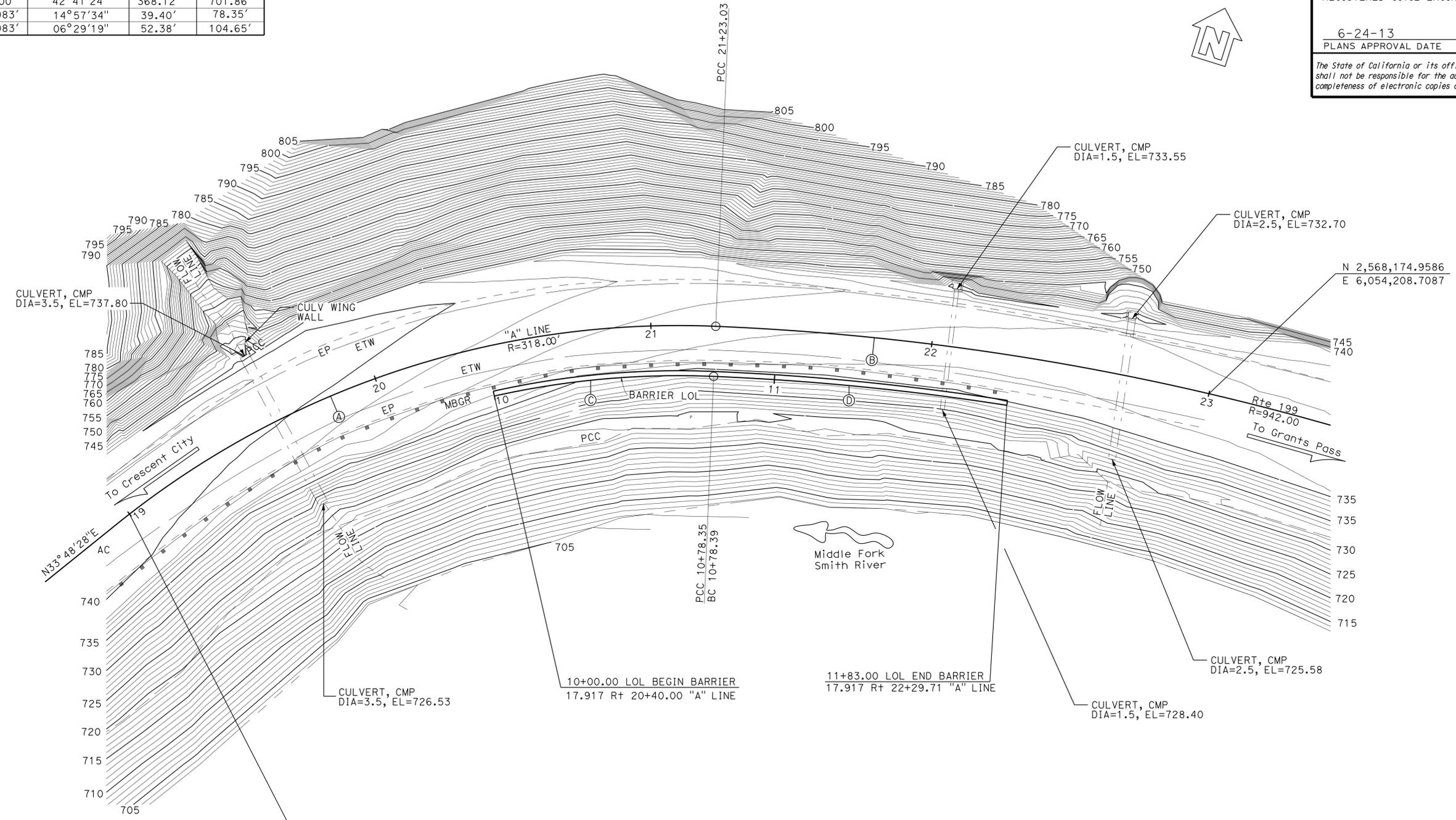
REVISION DATES	SHEET	OF
02/24/12	3	9
1/29/13		
4-15-13		

USERNAME => s117606 DATE PLOTTED => 22-JUN-2013 TIME PLOTTED => 06:50

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	154	184

Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE
 Kevin Harper
 No. 42221
 Exp. 3-31-14
 CIVIL
 STATE OF CALIFORNIA
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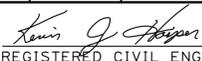
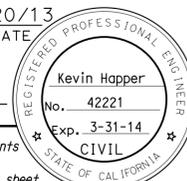
No.	R	Δ	T	L
(A)	318.00'	41°11'13"	119.49'	228.59'
(B)	942.00'	42°41'24"	368.12'	701.86'
(C)	300.083'	14°57'34"	39.40'	78.35'
(D)	924.083'	06°29'19"	52.38'	104.65'



SURVEY CONTROL
 DN199-20.51 (Not Shown)
 Fnd 1 1/2" Alum Cap, Stamped "2007 199-20.51"
 18.60 Rt. "L1M1" Line, Rte 199
 Sta. 18+87.85
 N 2,567,999.38
 E 6,053,864.38
 EL.=739.67
 DN199-20.64 (Not Shown)
 Fnd 1 1/2" Alum. Cap, Stamped "2007 199-20.64"
 19.21 Rt. "L1M1" Line, Rte 199
 Sta. 26+15.58
 N 2,568,127.08
 E 6,054,516.49
 EL.=739.52

NOTE:
 Location of MBGR estimated by imagery,
 field measurements not collected

PRELIMINARY INVESTIGATION SECTION				DESIGN BY April Pearson CHECKED Eric Watson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO. POST MILE 20.53	KELLY CREEK BARRIER FOUNDATION PLAN		
SCALE VERT. DATUM NAVD 88 1"=20'	PHOTOGAMMETRY AS OF: X SURVEYED BY District DRAFTED BY C. FASSETT 10/2011	CHECKED BY Tim Schmalz 10/2011 CHECKED BY Chris Fassett 10/2011	DETAILS BY J. Zhou / F. Rashedi CHECKED Eric Watson	QUANTITIES BY Kevin Harper CHECKED Eric Watson		UNIT: 3576 PROJECT NUMBER & PHASE: 01000003710	CONTRACT NO.: 01-479404	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 10/27/11 05/19/12 11-20-12	SHEET 4 OF 9
STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS										

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	155	184
 REGISTERED CIVIL ENGINEER			3/20/13 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>					

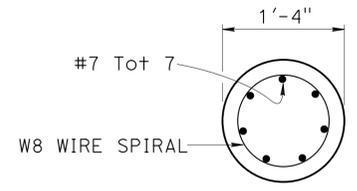
GENERAL NOTES WORKING STRESS DESIGN

DESIGN:
 Caltrans Bridge Design Specification - April 2000
 (1996 AASHTO with Interims and revisions by Caltrans)

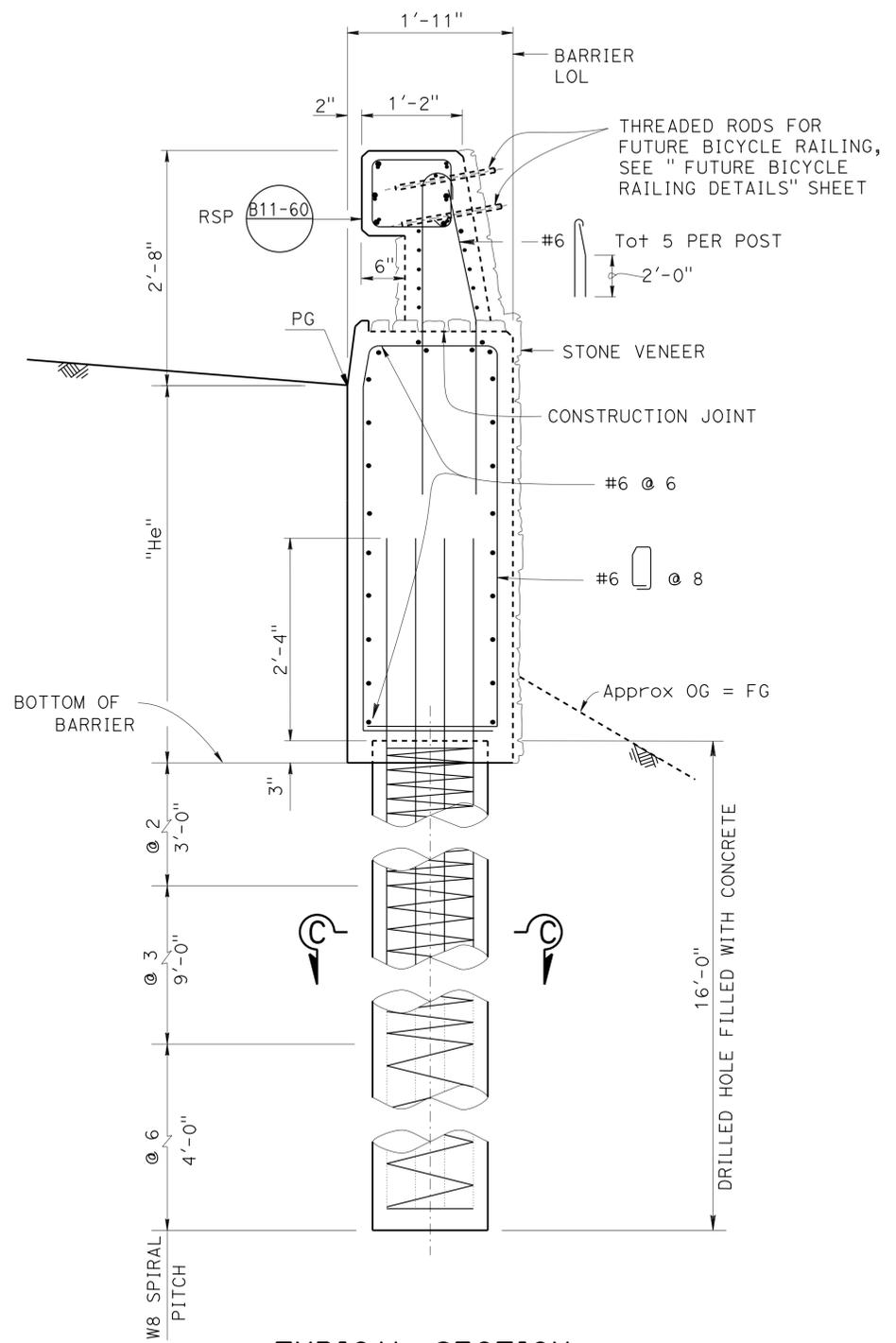
SURCHARGE:
 2'-0" Earth

SOIL PARAMETERS:
 (For determination of design lateral earth pressures)
 $\phi = 30^\circ$
 $\gamma = 110$ pcf

REINFORCED CONCRETE:
 $f'_c = 3.6$ ksi
 $f_y = 60$ ksi



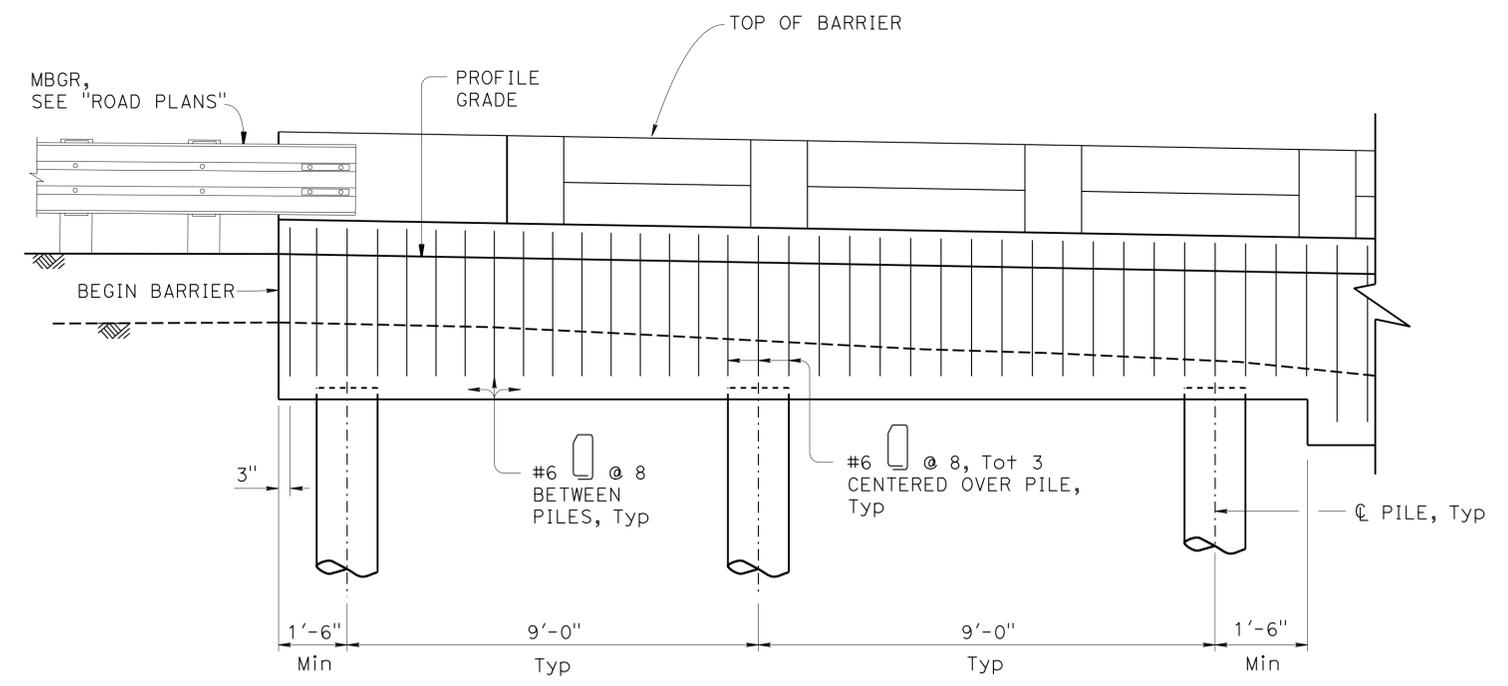
SECTION C-C
1" = 1'-0"



TYPICAL SECTION
1" = 1'-0"

NOTES:

- Lapped splices in spiral reinforcement shall be lapped at least 80 wire diameters. Spiral reinforcement at splices and at ends shall be terminated with a 135° hook with a 6" tail hooked around a longitudinal bar.
- For Barrier Details not shown, see RSP .



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

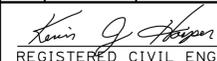
DESIGN	BY A. Pearson	CHECKED Eric Watson
DETAILS	BY J. Zhou	CHECKED Eric Watson
QUANTITIES	BY Kevin Harper	CHECKED Eric Watson

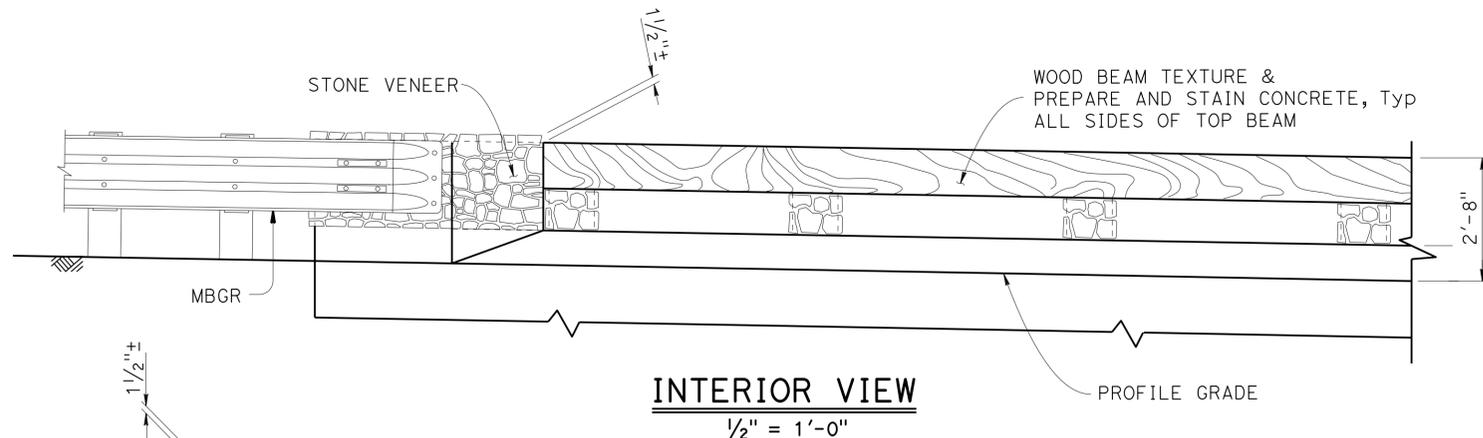
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

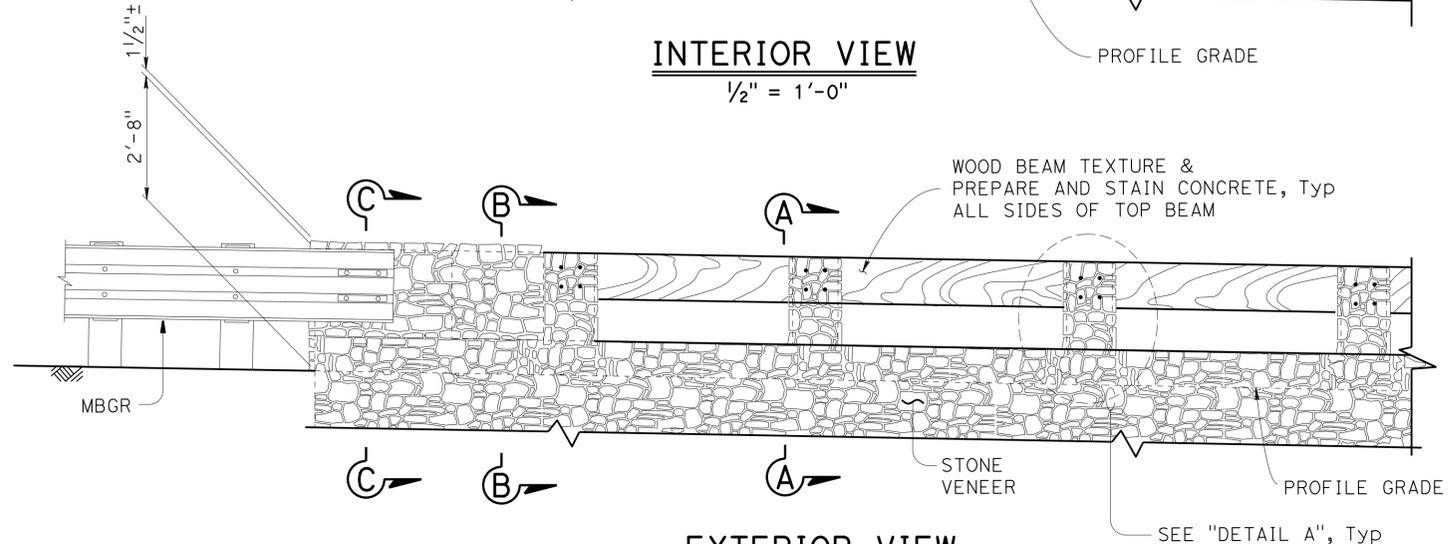
BRIDGE NO.	
POST MILE	20.53

KELLY CREEK BARRIER
CONCRETE BARRIER TYPE 80A (Mod) No. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	156	184
			3/20/13	DATE	
REGISTERED CIVIL ENGINEER			DATE		
6-24-13			PLANS APPROVAL DATE		
Kevin Happer No. 42221 Exp. 3-31-14 CIVIL			REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA		
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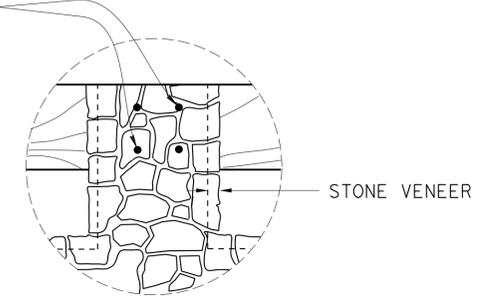


INTERIOR VIEW
1/2" = 1'-0"

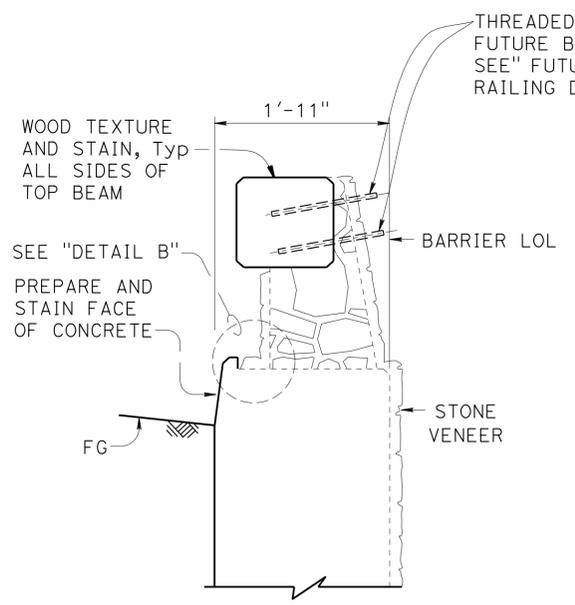


EXTERIOR VIEW
1/2" = 1'-0"

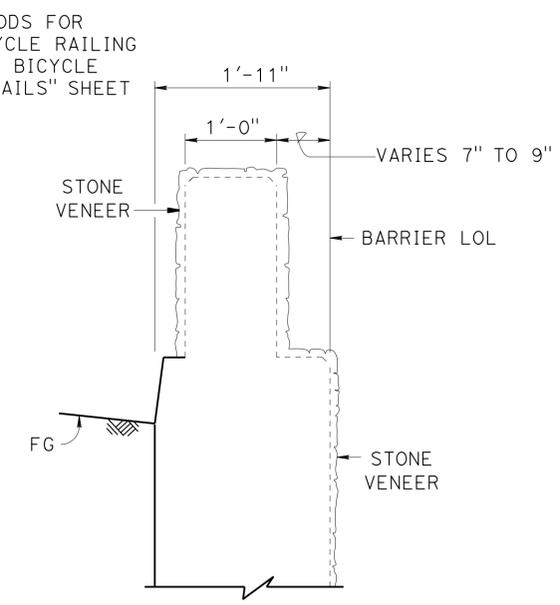
THREADED RODS FOR FUTURE BICYCLE RAILING SEE "FUTURE BICYCLE RAILING DETAILS" SHEET



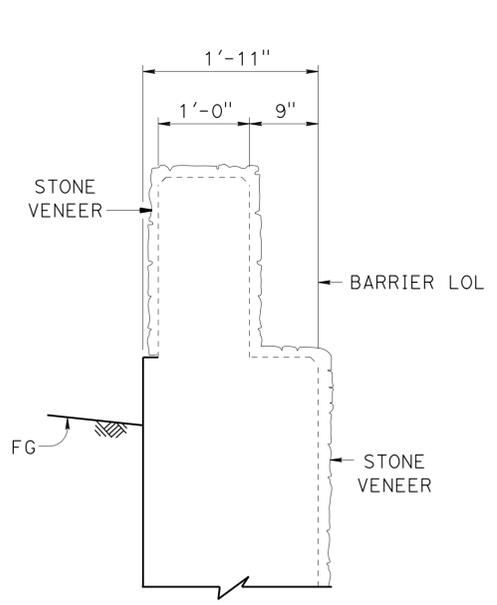
DETAIL A
NO SCALE



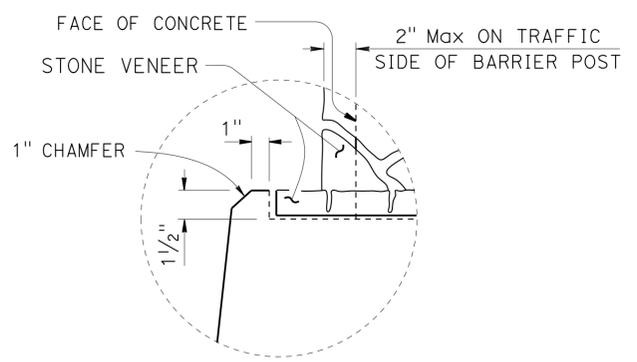
SECTION A-A
1" = 1'-0"



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



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



DETAIL B
NO SCALE

NOTE:
For details not shown, see "CONCRETE BARRIER TYPE 80A (Mod) NO. 1" sheet.

DESIGN	BY A. Pearson	CHECKED Eric Watson
DETAILS	BY J. Zhou/ F. Rashedi	CHECKED Eric Watson
QUANTITIES	BY Kevin Harper	CHECKED Eric Watson

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

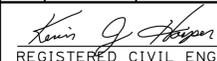
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	
POST MILE	20.53

KELLY CREEK BARRIER
CONCRETE BARRIER TYPE 80A (Mod) No. 2

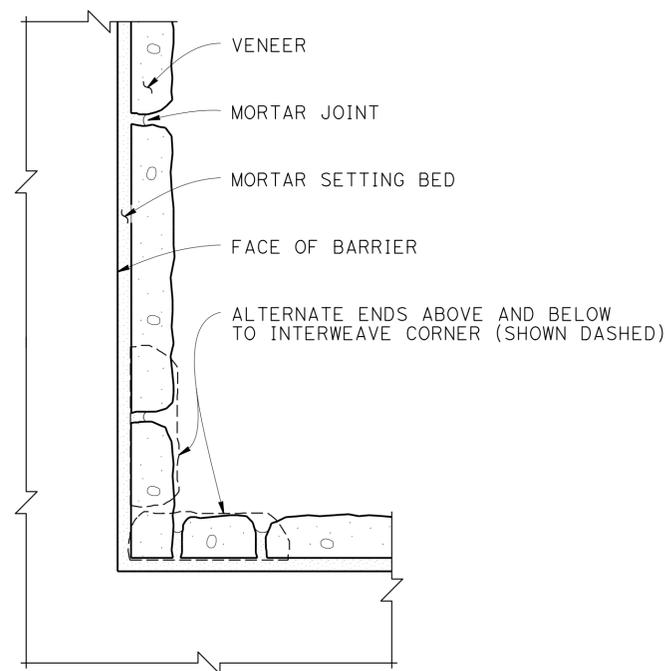
REVISION DATES	SHEET	OF
02/21/12	6	9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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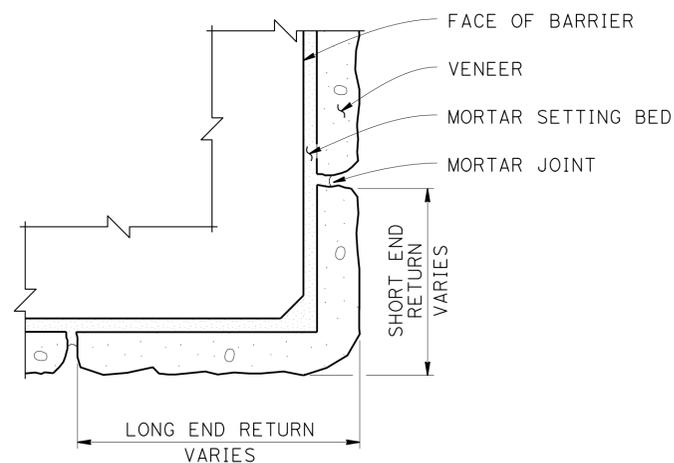
 3/20/13
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE

Kevin Harper
 No. 42221
 Exp. 3/31/14
 CIVIL
 STATE OF CALIFORNIA

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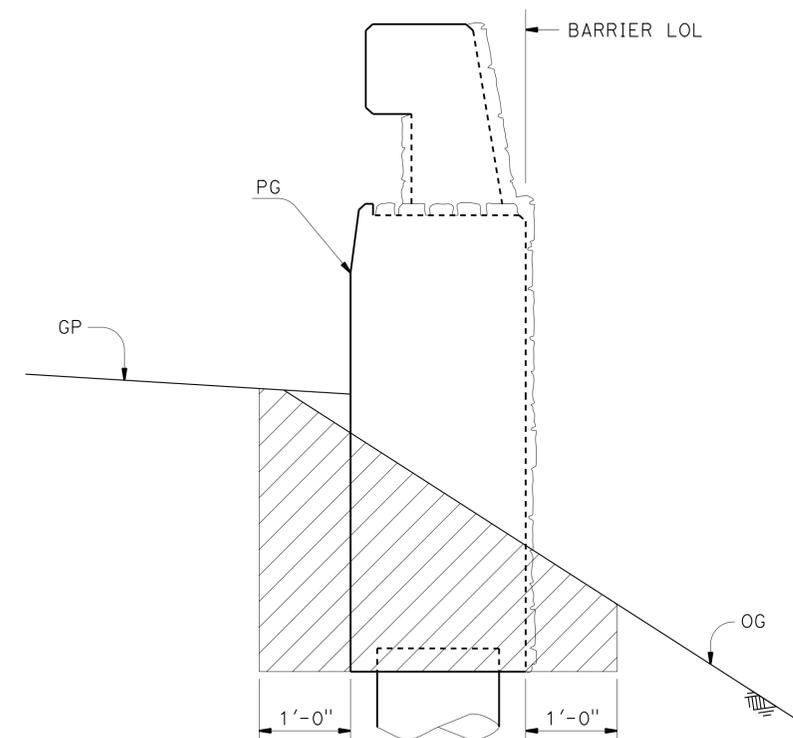
INSIDE CORNER DETAIL



OUTSIDE CORNER DETAIL

MANUFACTURED STONE VENEER TEXTURE
NO SCALE

NOTE: The average installed thickness of the stone veneer shall be approximately 1 1/2".



LEGEND:

 Indicates Structure Excavation (Naturally Occurring Asbestos)

LIMITS OF PAYMENT FOR EXCAVATION
1" = 1'-0"

DESIGN	BY Stephan Heath	CHECKED Kevin Harper
DETAILS	BY Bob Huddleston	CHECKED Kevin Harper
QUANTITIES	BY Kevin Harper	CHECKED E. Watson / V. Shostak

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	
POST MILE	20.53

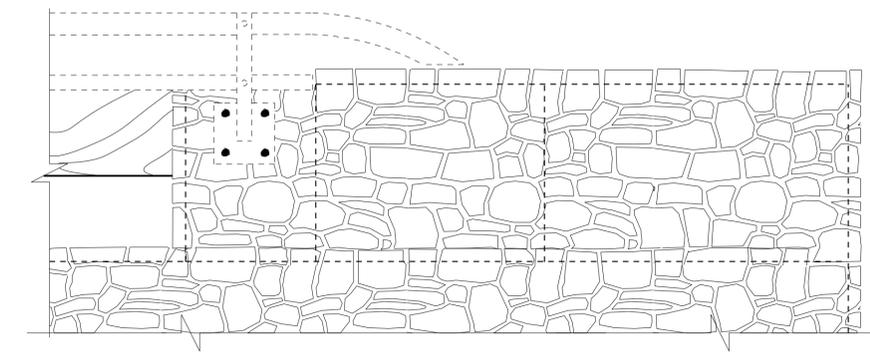
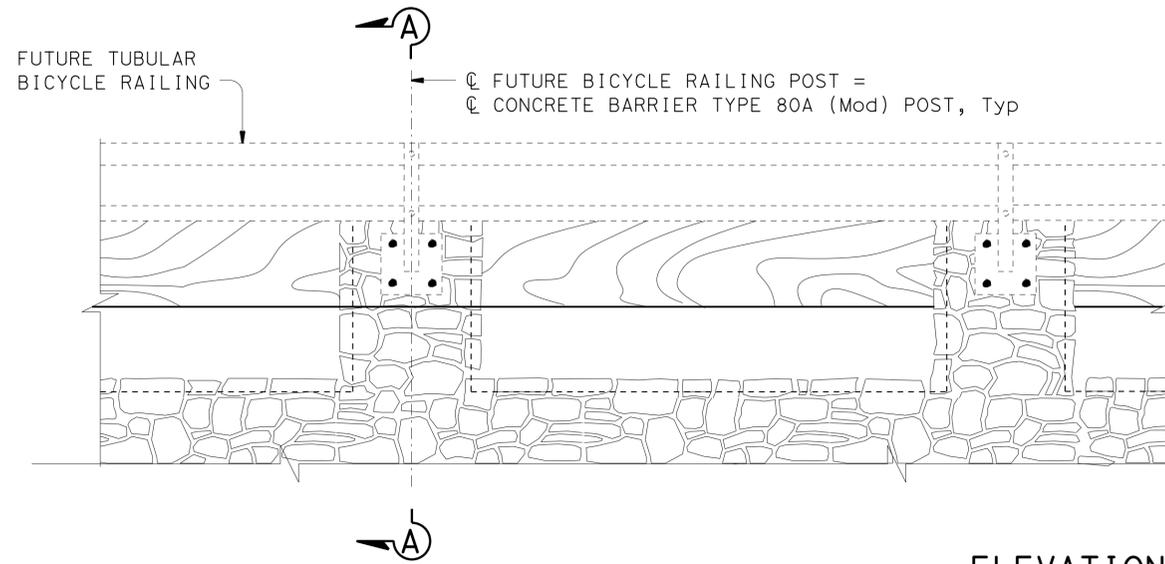
KELLY CREEK BARRIER
CONCRETE BARRIER TYPE 80 (Mod) No. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	158	184

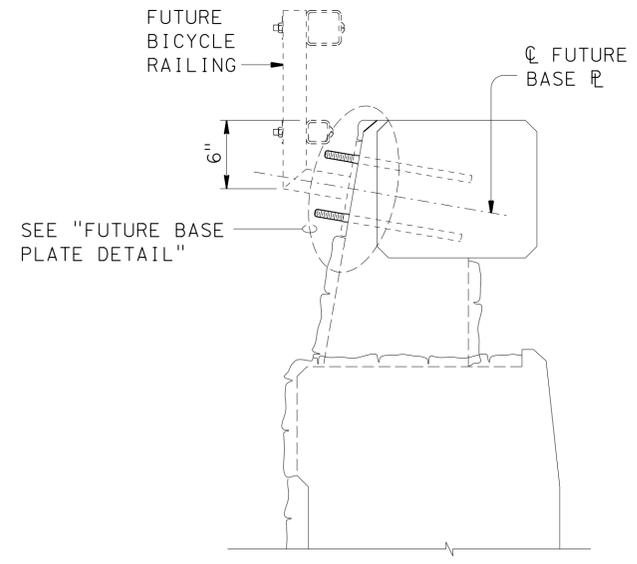
Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE
 Kevin Harper
 No. 42221
 Exp. 3/31/14
 CIVIL
 STATE OF CALIFORNIA
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NOTES:

- For details not shown see "CONCRETE BARRIER TYPE 80 (MOD2) No.1" sheet.
- Place rock veneer around threaded rods in the area of the future base plate.

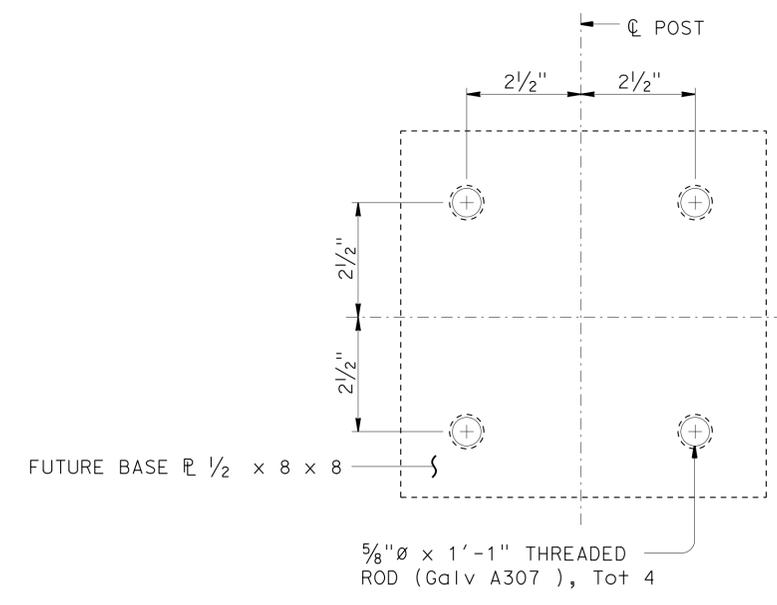


ELEVATION
1" = 1'-0"

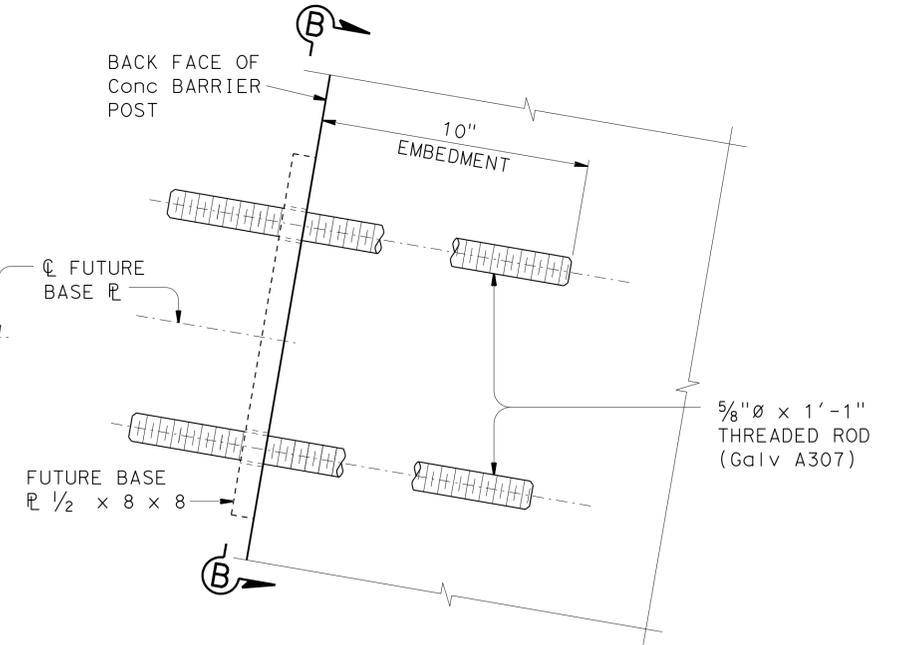


SECTION A-A
1 1/2" = 1'-0"

NOTE: Rock veneer is shown removed in area of base plate for attachment of bicycle railing. See Note 2.



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



FUTURE BASE PLATE DETAIL
6" = 1'-0"

NOTE: Rock veneer not shown

DESIGN	BY Kevin Harper	CHECKED Eric Watson
DETAILS	BY B.Jenko / B.Huddleston	CHECKED Eric Watson
QUANTITIES	BY Kevin Harper	CHECKED Eric Watson

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	
POST MILE	25.53

KELLY CREEK BARRIER
FUTURE BICYCLE RAILING DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
01	DN	199	20.3/25.9	159	184

11-30-12

CERTIFIED ENGINEERING GEOLOGIST

6-24-13
PLANS APPROVAL DATE

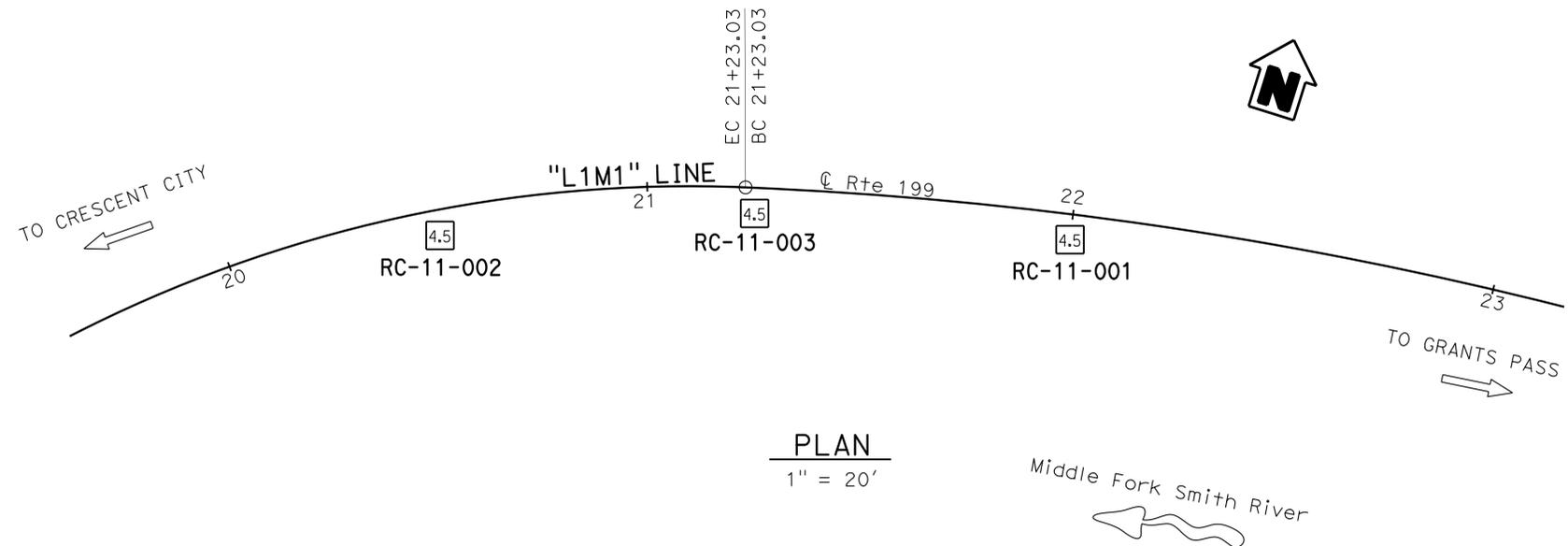
PROFESSIONAL GEOLOGIST

Charles Narwold
No. 2335
Exp. 9-30-13
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

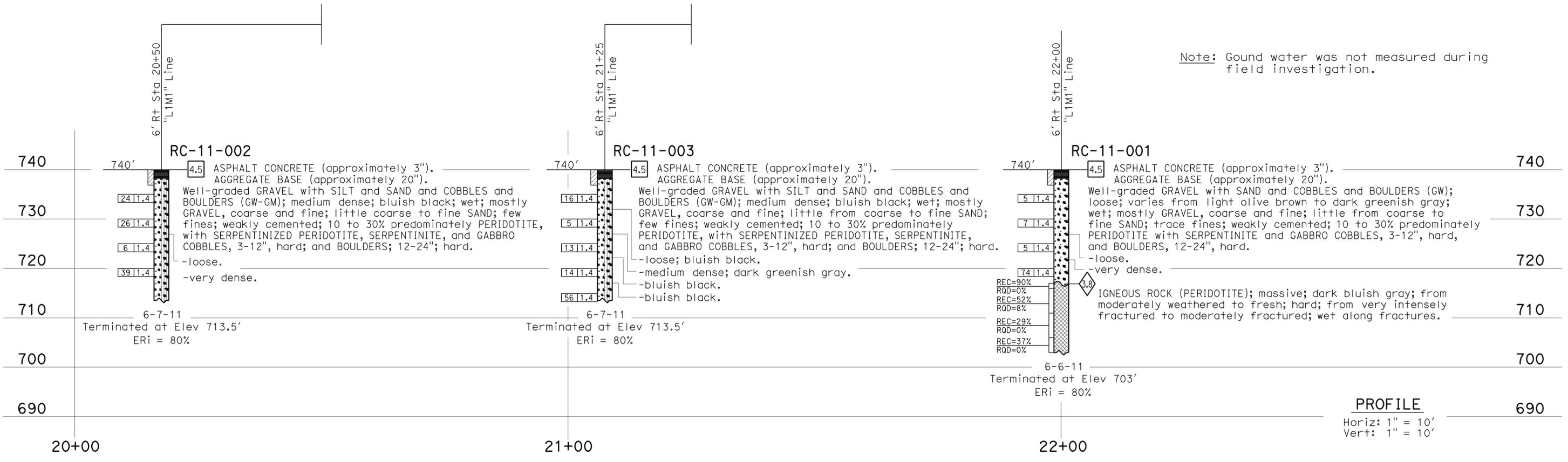
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This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition). See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

BENCH MARK
 Fnd 2 1/4" Brass Disk
 in CONC.
 N 2567877.757
 E 6055027.121
 Elev 747.03'
 NAVD88



PLAN
1" = 20'



Note: Ground water was not measured during field investigation.

PROFILE
 Horiz: 1" = 10'
 Vert: 1" = 10'

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		KELLY CREEK BARRIER	
FUNCTIONAL SUPERVISOR		DRAWN BY:		DEPARTMENT OF TRANSPORTATION		STRUCTURE DESIGN		POST MILE			
NAME: R. Bibbens		I.G-Remmen		FIELD INVESTIGATION BY:		DESIGN BRANCH 1		20.53		REVISION DATES	
CHECKED BY: R. Newman		D. Vann		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		PROJECT NUMBER & PHASE: 01000003711		SHEET OF	
06S CIVIL LOG OF TEST BORINGS SHEET		0 1 2 3		CONTRACT NO.: 01-479404		DISREGARD PRINTS BEARING EARLIER REVISION DATES		11-29-12		9 9	

USERNAME => s117606 DATE PLOTTED => 22-JUN-2013 TIME PLOTTED => 06:50

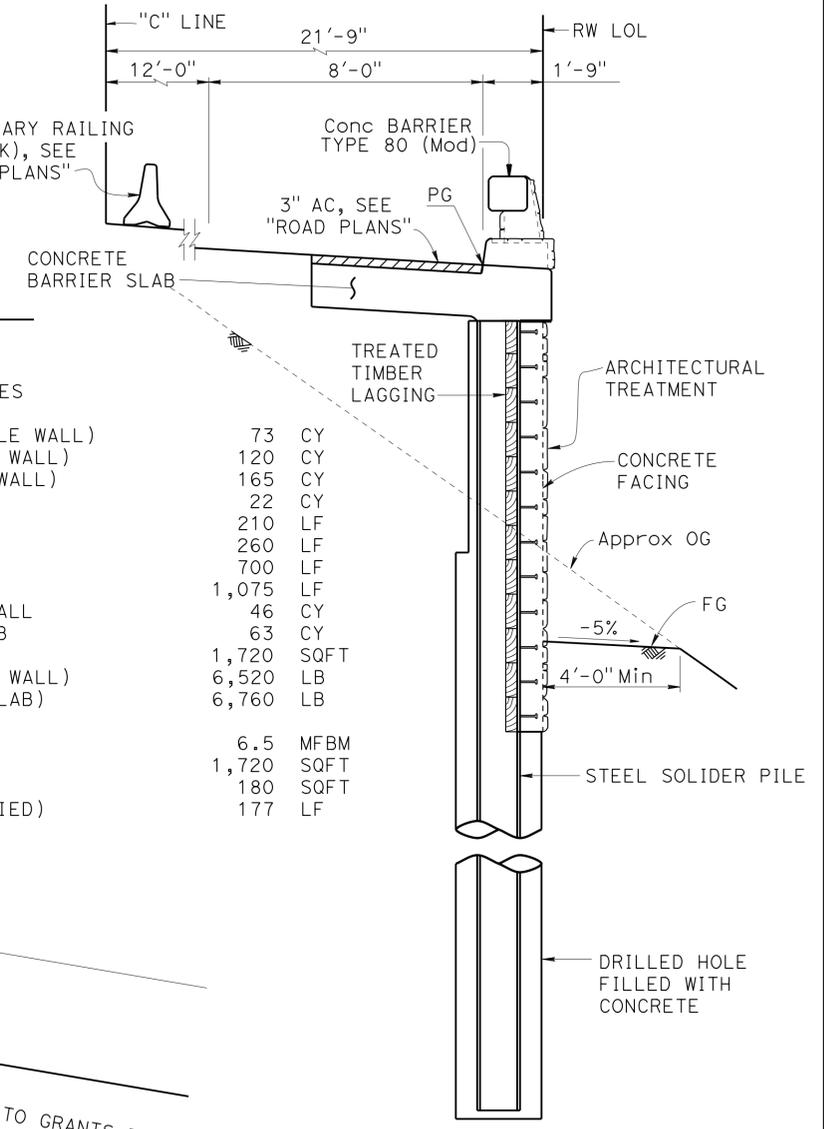
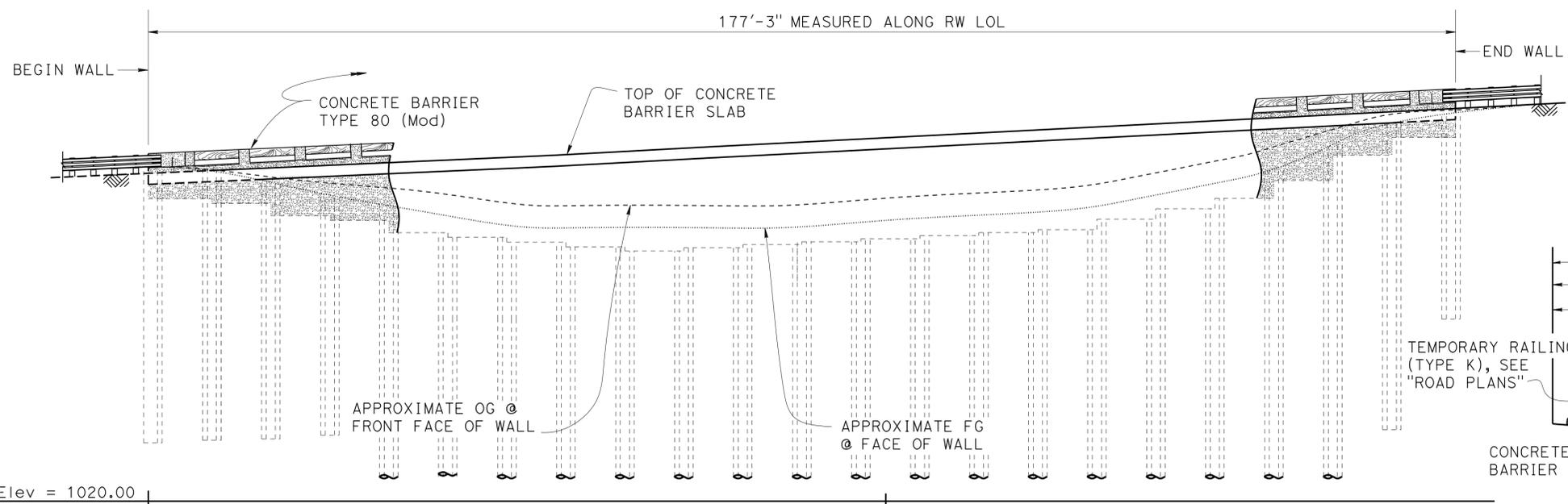
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	160	184

Kevin J. Harper
 REGISTERED CIVIL ENGINEER DATE 3/20/13
 PLANS APPROVAL DATE 6-24-13

Kevin Harper
 No. 42221
 Exp. 3/31/14
 CIVIL
 STATE OF CALIFORNIA

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INDEX TO PLANS

SHEET NO.	TITLE
1.	GENERAL PLAN
2.	STRUCTURE PLAN No. 1
3.	STRUCTURE PLAN No. 2
4.	FOUNDATION PLAN
5.	DETAILS No. 1
6.	DETAILS No. 2
7.	DETAILS No. 3
8.	CONCRETE BARRIER TYPE 80 (Mod) NO. 1
9.	CONCRETE BARRIER TYPE 80 (Mod) NO. 2
10.	FUTURE BICYCLE RAILING DETAILS
11.	LOG OF TEST BORINGS 1 OF 3
12.	LOG OF TEST BORINGS 2 OF 3
13.	LOG OF TEST BORINGS 3 OF 3

CURVE DATA

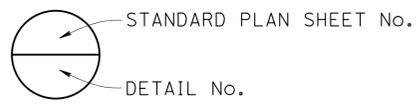
"C" LINE	RW LOL
R = 300.00'	R = 278.25'
Δ = 30°12'35"	Δ = 20°29'04"
L = 158.18'	L = 99.48'
T = 80.97'	T = 50.28'

DEVELOPED ELEVATION
11

1" = 10'

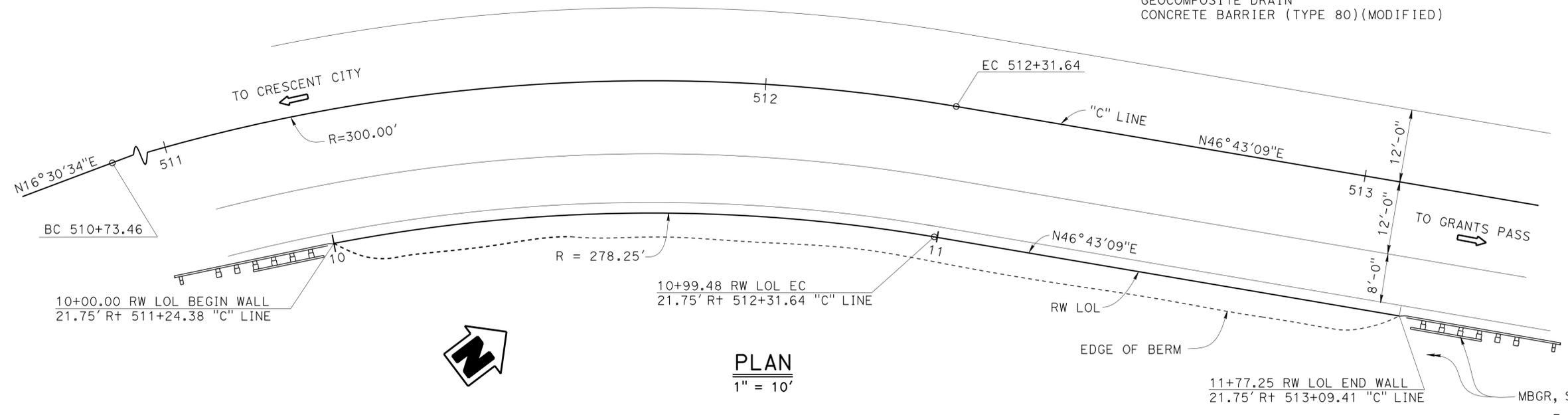
STANDARD PLANS 2010

- A10A ABBREVIATIONS (SHEET 1 OF 2)
- A10B ABBREVIATIONS (SHEET 2 OF 2)
- A10F LEGEND - SOIL (SHEET 1 OF 2)
- A10G LEGEND - SOIL (SHEET 2 OF 2)
- A10H LEGEND - ROCK
- RSP B11-60 CONCRETE BARRIER TYPE 80 (SHEET 1 OF 2)



QUANTITIES

STRUCTURE EXCAVATION (SOLDIER PILE WALL)	73	CY
STRUCTURE BACKFILL (SOLDIER PILE WALL)	120	CY
CONCRETE BACKFILL (SOLDIER PILE WALL)	165	CY
LEAN CONCRETE BACKFILL	22	CY
STEEL SOLDIER PILE (HP 14 X 73)	210	LF
STEEL SOLDIER PILE (W 18 X 106)	260	LF
STEEL SOLDIER PILE (W 18 X 143)	700	LF
30" DRILLED HOLE	1,075	LF
STRUCTURAL CONCRETE, RETAINING WALL	46	CY
STRUCTURAL CONCRETE, BARRIER SLAB	63	CY
RANDOM ROCK TEXTURE	1,720	SQFT
BAR REINFORCING STEEL (RETAINING WALL)	6,520	LB
BAR REINFORCING STEEL (BARRIER SLAB) (EPOXY COATED)	6,760	LB
TIMBER LAGGING	6.5	MFBM
PREPARE AND STAIN CONCRETE	1,720	SQFT
GEOCOMPOSITE DRAIN	180	SQFT
CONCRETE BARRIER (TYPE 80)(MODIFIED)	177	LF



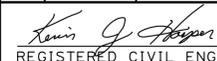
PLAN
1" = 10'

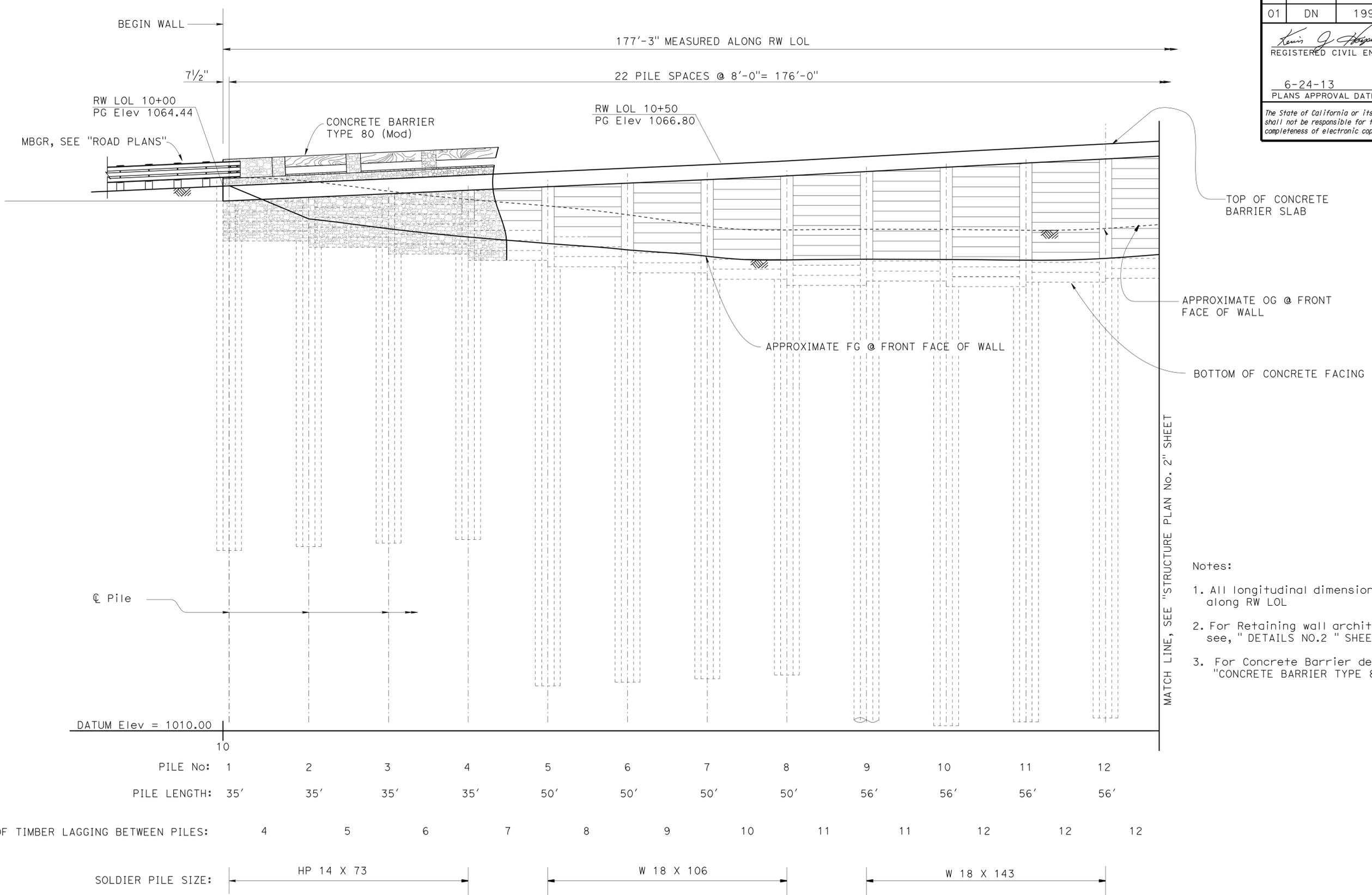
TYPICAL SECTION
3/8" = 1'-0"

For "GENERAL NOTES", see "FOUNDATION PLAN" sheet.

Jeff Sims DESIGN ENGINEER	DESIGN	BY April Pearson	CHECKED G. Jones/ D. Sessions	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO.	MONKEY CREEK RETAINING WALL GENERAL PLAN			
	DETAILS	BY Bruno/J. Zhou/F. Rashedi	CHECKED G. Jones/D. Sessions			LAYOUT		BY April Pearson	CHECKED Greg Jones	POST MILE
	QUANTITIES	BY Kevin Harper	CHECKED Daniel Sessions			SPECIFICATIONS		BY Dave Klein	CHECKED Dave Klein	PLANS AND SPECS COMPARED

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 UNIT: 3576 PROJECT NUMBER & PHASE: 01000003711 CONTRACT NO.: 01-479404
 DISREGARD PRINTS BEARING EARLIER REVISION DATES

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	161	184
 REGISTERED CIVIL ENGINEER DATE 3/20/13					
PLANS APPROVAL DATE 6-24-13					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



- Notes:
1. All longitudinal dimensions are measured along RW LOL
 2. For Retaining wall architectural details see, "DETAILS NO.2" SHEET
 3. For Concrete Barrier details, see "CONCRETE BARRIER TYPE 80(MOD)" sheets.

DEVELOPED ELEVATION
1" = 5'

DESIGN	BY April Pearson	CHECKED G. Jones/D. Sessions
DETAILS	BY Bruno/J. Zhou/F. Rashedi	CHECKED G. Jones/D. Sessions
QUANTITIES	BY Kevin Harper	CHECKED Daniel Sessions

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	
POST MILE	25.57

MONKEY CREEK RETAINING WALL
STRUCTURE PLAN No. 1



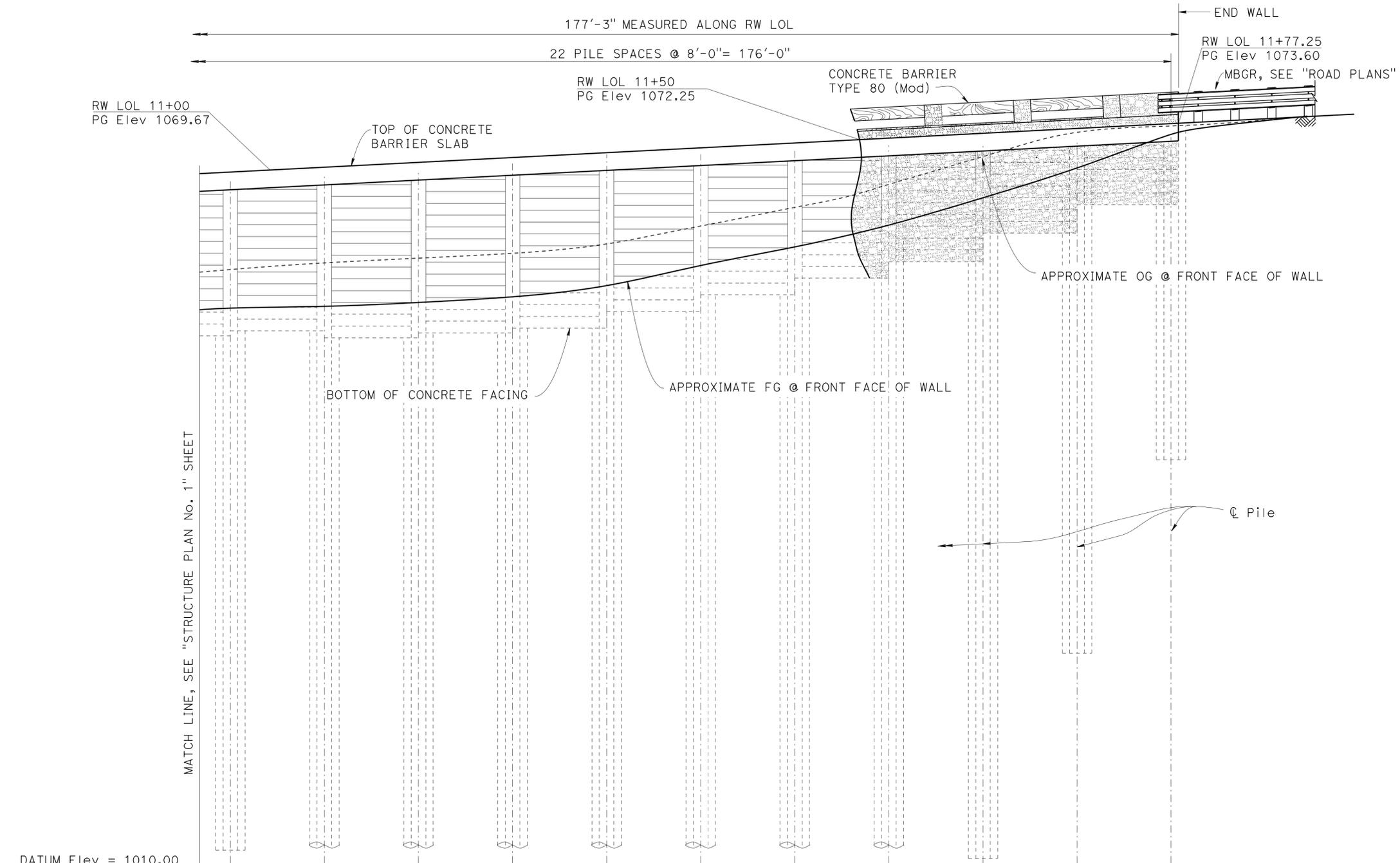
REVISION DATES	SHEET	OF
1-5-12	2	13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	162	184

Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE

Kevin Harper
 No. 42221
 Exp. 3/31/14
 CIVIL
 STATE OF CALIFORNIA

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	11												
PILE No:	13	14	15	16	17	18	19	20	21	22	23		
PILE LENGTH:	56'	60'	60'	60'	60'	60'	60'	60'	60'	43'	27'		
NUMBER OF TIMBER LAGGING BETWEEN PILES:	12	13	13	13	12	11	10	9	7	5			
SOLDIER PILE SIZE:	W 18 X 143							W 18 X 106		W 14 X 73			

DEVELOPED ELEVATION
1" = 5'

For "NOTES", see "STRUCTURE PLANS NO.1" sheet

DESIGN BY A. Pearson DETAILS BY Bruno/J. Zhou/F. Rashedi QUANTITIES BY Kevin Harper	CHECKED G. Jones/D. Sessions CHECKED G. Jones/D. Sessions CHECKED Daniel Sessions	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO.	MONKEY CREEK RETAINING WALL STRUCTURE PLAN No. 2				
				POST MILE		25.57			
				UNIT: 3576 PROJECT NUMBER & PHASE: 01000003711 CONTRACT NO.: 01-479404					
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)				DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET OF 3 13	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
 0 1 2 3
 FILE => rw-c-sp02.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	163	184

Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE
 Kevin Harper
 No. 42221
 Exp. 3/31/14
 CIVIL
 STATE OF CALIFORNIA
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GENERAL NOTES WORKING STRESS DESIGN

DESIGN:

Caltrans Bridge Design Specifications - April 2000
(1996 AASHTO with Interims and revisions by Caltrans)

SURCHARGE:

2'-0" Level Earth

SOIL PARAMETERS:

(For determination of design lateral earth pressures)

$\phi = 34^\circ$
 $\lambda = 120 \text{ pcf}$

REINFORCED CONCRETE:

$f_c = 1.4 \text{ ksi}$
 $f_c' = 3.6 \text{ ksi}$
 $f_y = 60 \text{ ksi}$
 $f_s = 24 \text{ ksi}$
 $n = 8$

STRUCTURAL STEEL:

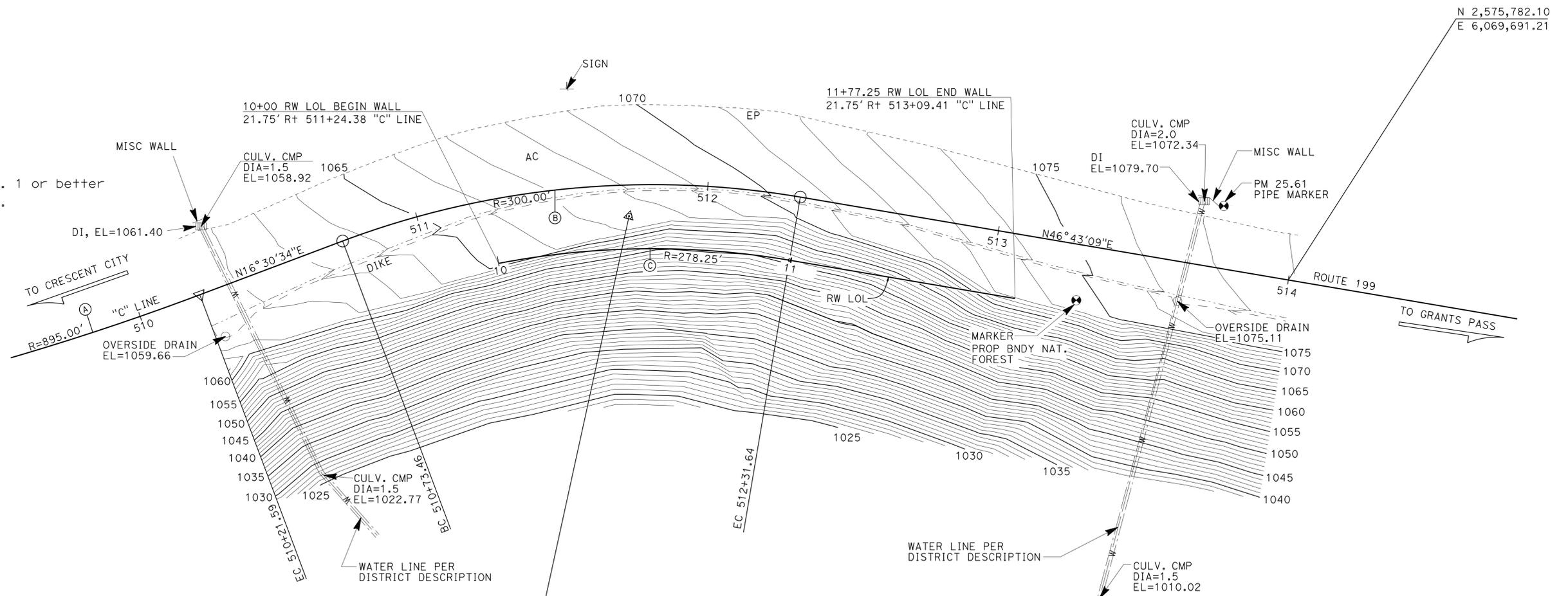
$f_y = 50 \text{ ksi}$
 $f_s = 27.5 \text{ ksi}$

STRUCTURAL TIMBER:

Treated Douglas Fir No. 1 or better
Timber to be full sawn.

CURVE DATA

No.	R	Δ	T	L
(A)	895.00	25°56'10"	206.10	405.14
(B)	300.00	30°12'35"	80.97	158.18
(C)	278.25	20°29'04"	50.28	99.48



SURVEY CONTROL
DN 199-25.57
Fnd 3/4" Rebar 1 1/2" Alum Cap
10.57 Rt "DESALN" Line
Sta. 511+72.89
N 2,575,616.35
E 6,069,538.68
Elev. =1067.79
DN 199-25.67 (NOT SHOWN)
Fnd 3/4" Rebar 1 1/2" Alum Cap
23.15 Rt "DESALN" Line
Sta. 516+41.85
N 2,575,917.42
E 6,069,885.31
Elev. =1086.13

DN 199-25.57
N 2,575,616.35
E 6,069,538.68
Elev. =1067.79

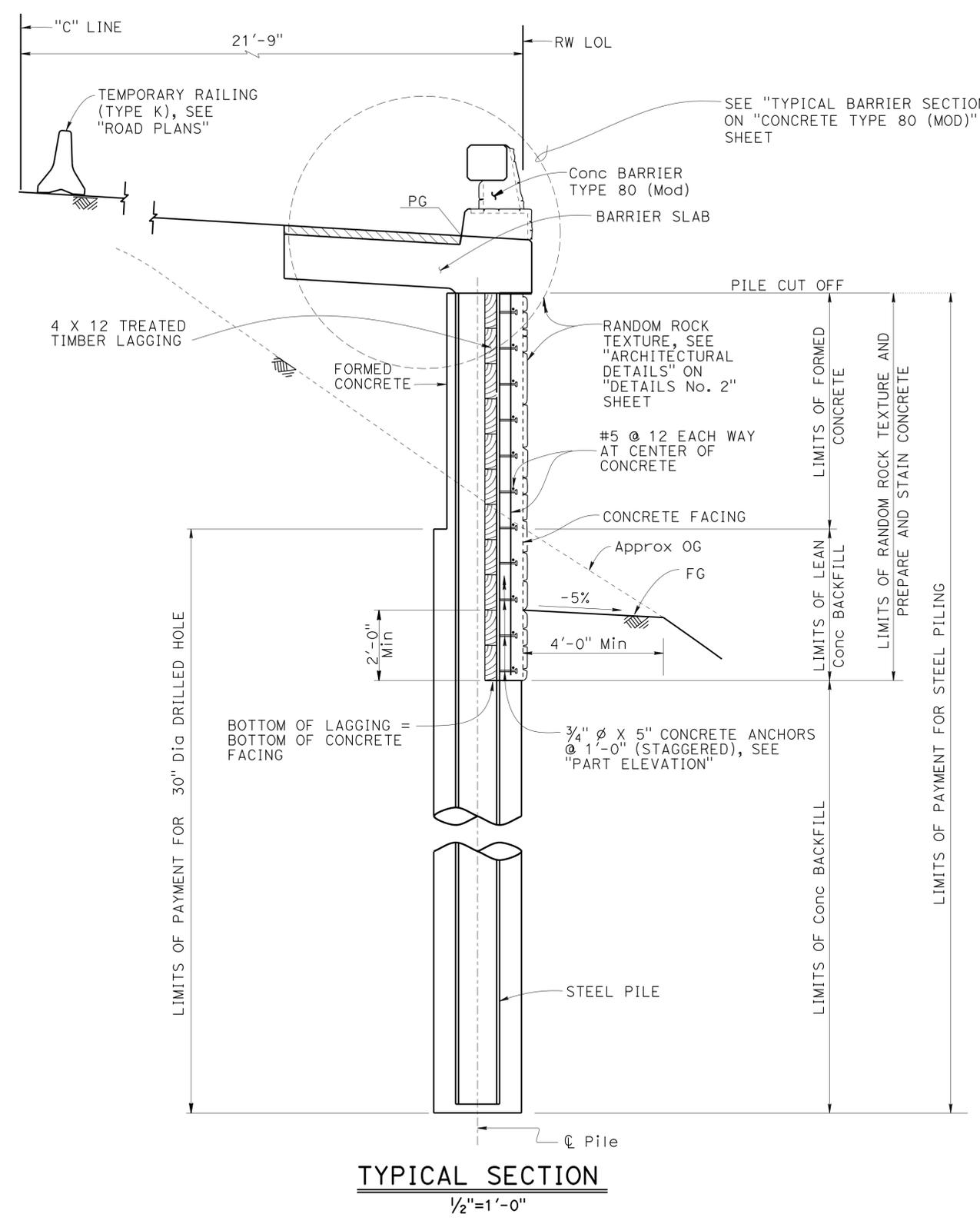
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SCALE VERT. DATUM NAVD 88	PHOTOGRAMMETRY AS OF: X	DETAILS BY Bruno/J. Zhou/F. Rashedi	CHECKED G. Jones/D. Sessions	POST MILE					
1"=20'	HORZ. DATUM NAD83	QUANTITIES BY Kevin Harper	CHECKED Daniel Sessions	25.57					
ALIGNMENT TIES Dist. Traverse Sheet		DRAFTED BY J. Zhou 06/2011	CHECKED BY Chris Fassett 06/2011	UNIT: 3576		PROJECT NUMBER & PHASE: 01000003711	CONTRACT NO.: 01-479404	DISREGARD PRINTS BEARING EARLIER REVISION DATES	
STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	REVISION DATES	SHEET 4 OF 13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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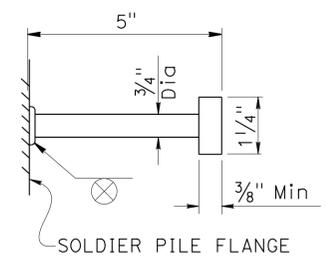
REGISTERED CIVIL ENGINEER	DATE
Kevin Harper	3/20/13
PLANS APPROVAL DATE	
6-24-13	

REGISTERED PROFESSIONAL ENGINEER
Kevin Harper
No. 42221
Exp. 3/31/14
CIVIL

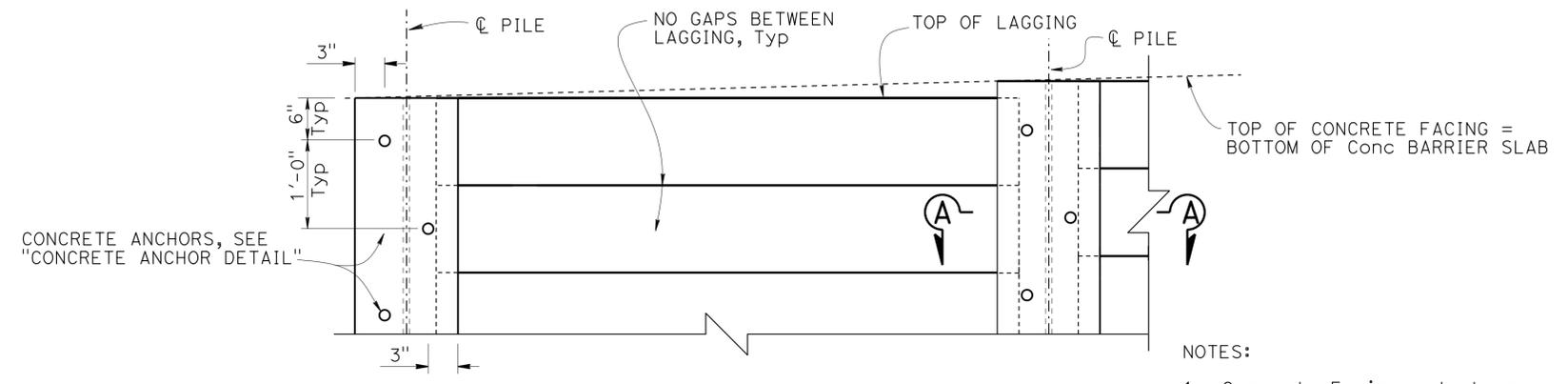
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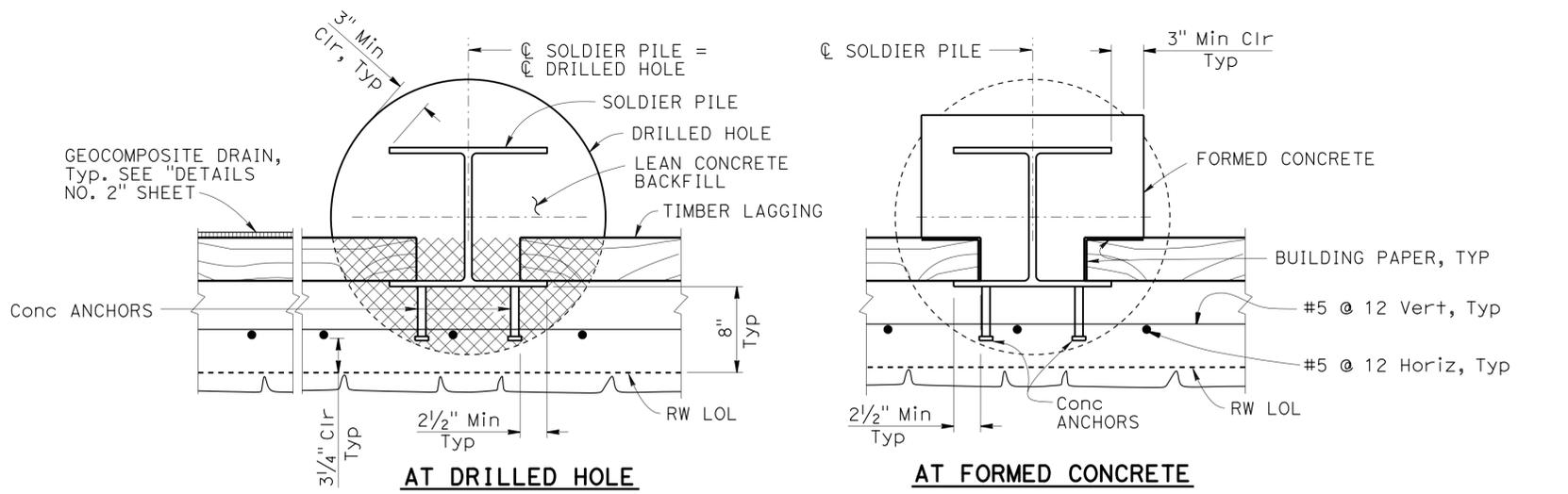
TYPICAL SECTION
1/2" = 1'-0"



CONCRETE ANCHOR DETAIL
NO SCALE



PART ELEVATION
1" = 1'-0"



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

- NOTES:
- Concrete Facing not shown
 - At Facing Step @ bottom of wall, align concrete anchors in a single row @ 1'-0" OC vertically where required
- Indicates Lean Concrete Removal limits.

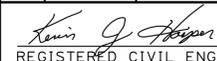
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DETAILS	BY Bruno/J. Zhou/F. Rashedi	CHECKED G. Jones/D. Sessions
QUANTITIES	BY Kevin Harper	CHECKED Daniel Sessions

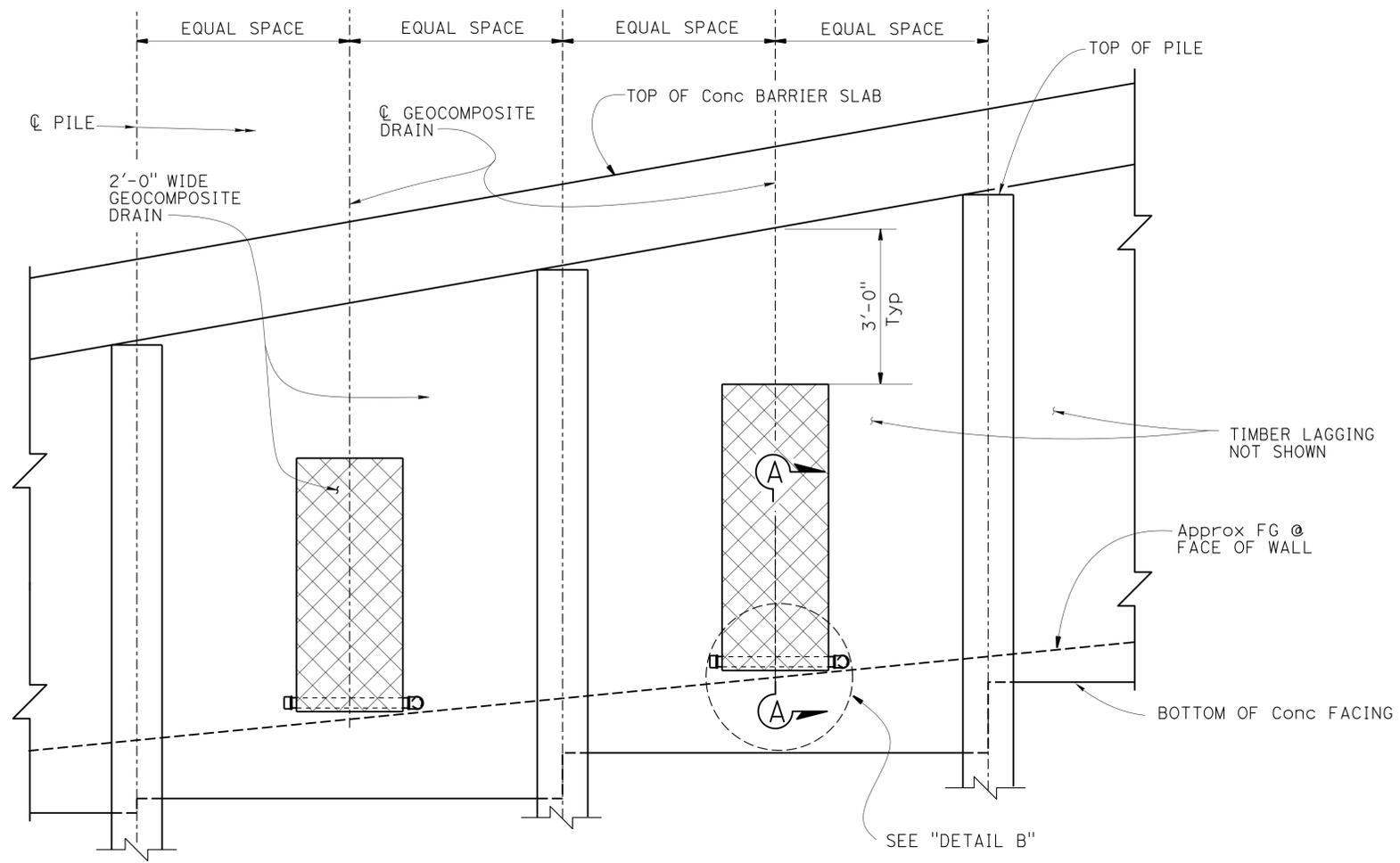
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

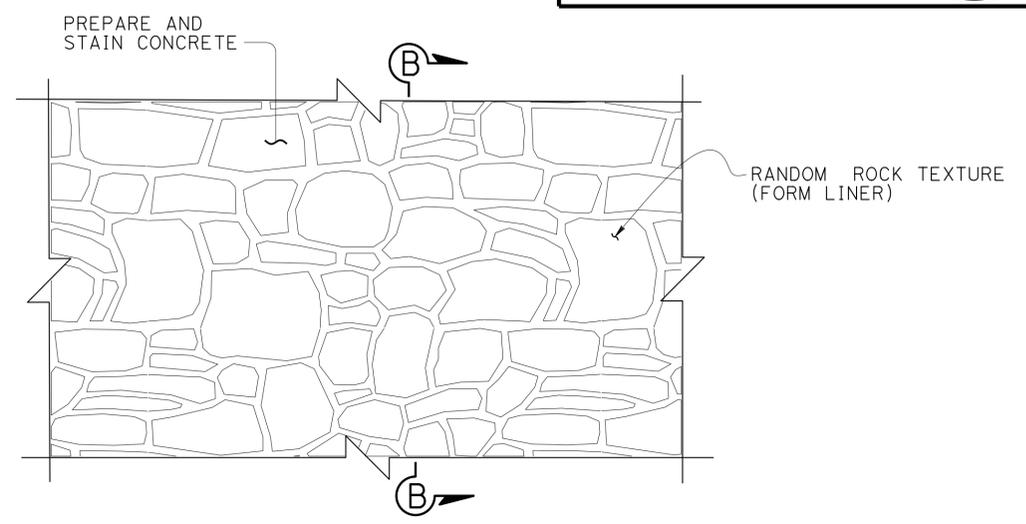
BRIDGE NO.
POST MILE
25.57

MONKEY CREEK RETAINING WALL
DETAILS No. 1

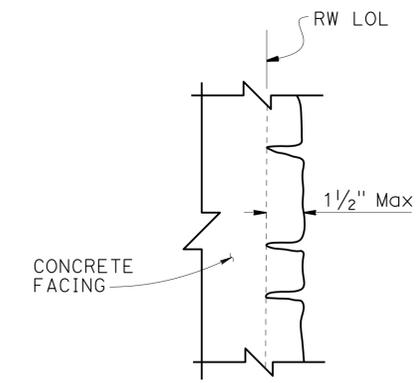
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	165	184
 REGISTERED CIVIL ENGINEER			3/20/13 DATE		
6-24-13 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



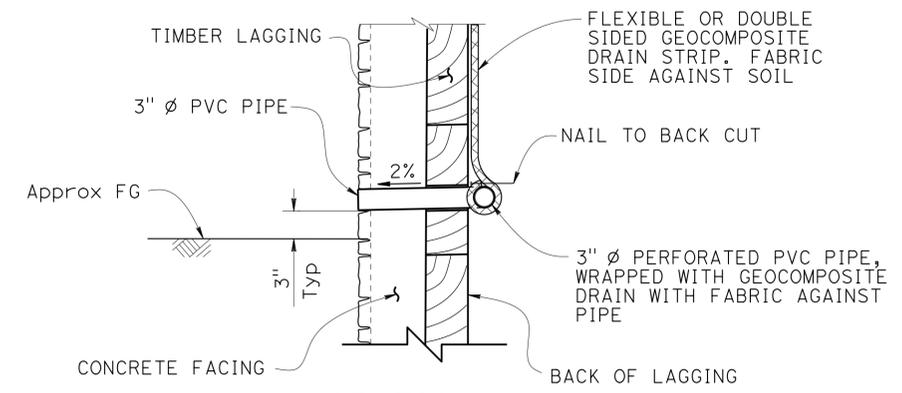
PART REAR ELEVATION - GEOCOMPOSITE DRAIN
No scale



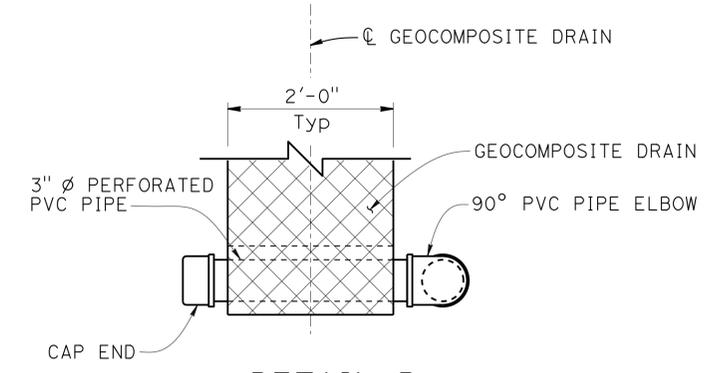
PART WALL ELEVATION
1" = 1'-0"



SECTION B-B
NO SCALE



SECTION A-A
No scale



DETAIL B
No scale

ARCHITECTURAL DETAILS
SCALE AS SHOWN

DESIGN	BY A. Pearson	CHECKED Greg Jones
DETAILS	BY Bruno/J. Zhou/F. Rashedi	CHECKED Greg Jones
QUANTITIES	BY Kevin Harper	CHECKED Daniel Sessions

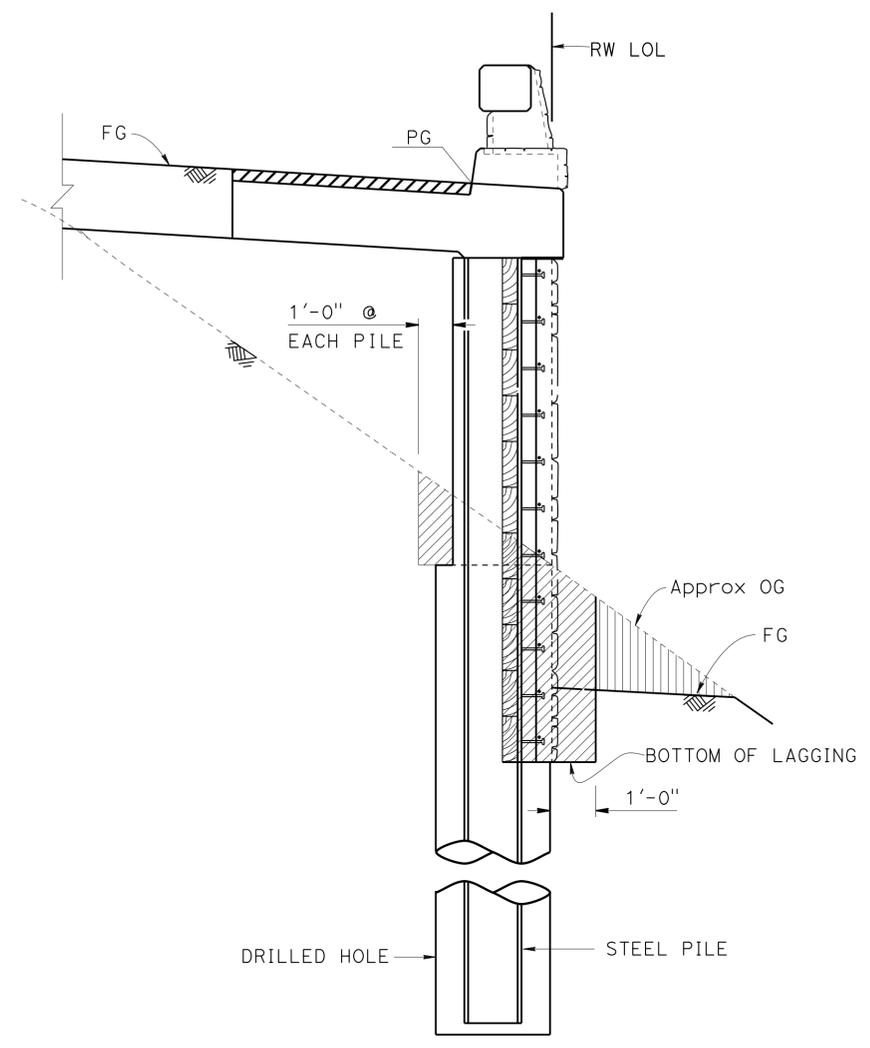
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

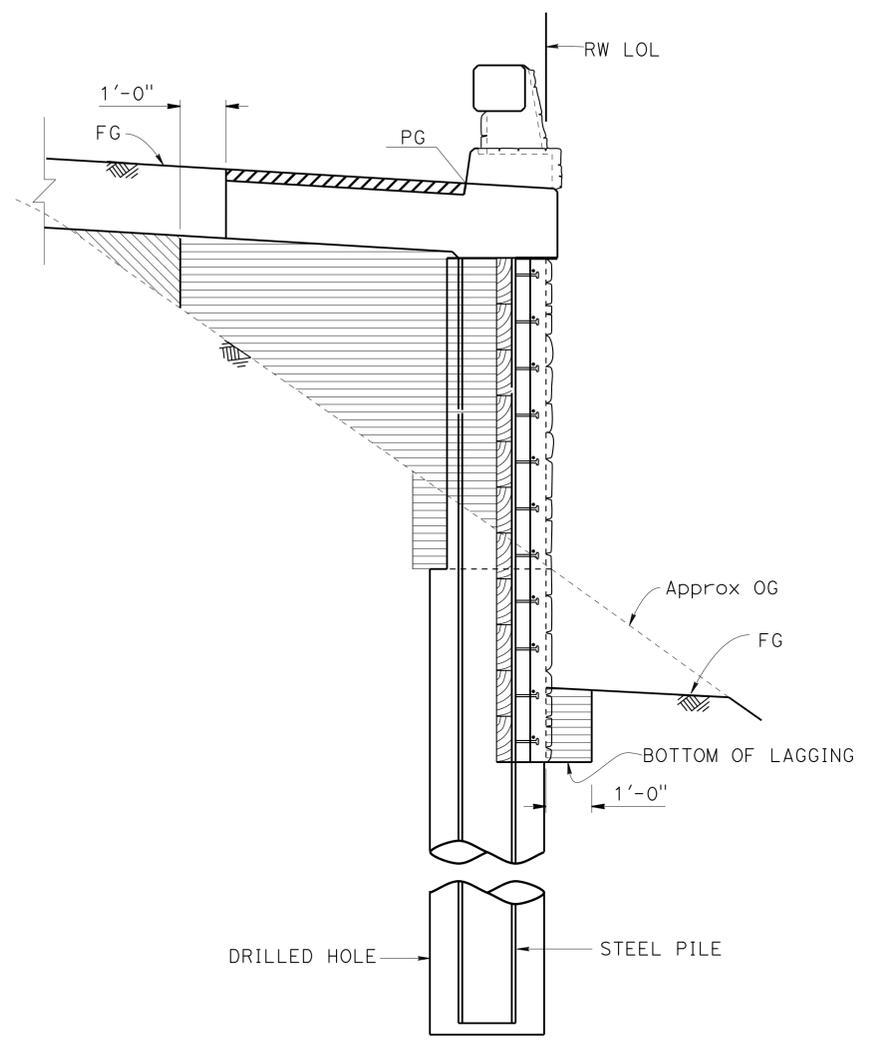
BRIDGE NO. MONKEY CREEK RETAINING WALL
POST MILE 25.57
DETAILS No. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	166	184

Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE
 Kevin Harper
 No. 42221
 Exp. 3/31/14
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 STATE OF CALIFORNIA
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STRUCTURE EXCAVATION



STRUCTURE BACKFILL

LIMITS OF EXCAVATION AND BACKFILL

No scale

Legend:

- Structure Excavation, Soldier Pile Wall
- Roadway Excavation, see "Road Plans"
- Roadway Embankment, see "Road Plans"
- Structure Backfill, Soldier Pile Wall

DESIGN	BY A. Pearson	CHECKED Greg Jones
DETAILS	BY Bruno/J. Zhou/F.Rashedi	CHECKED Greg Jones
QUANTITIES	BY Kevin Harper	CHECKED Daniel Sessions

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 1

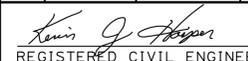
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POST MILE	25.57

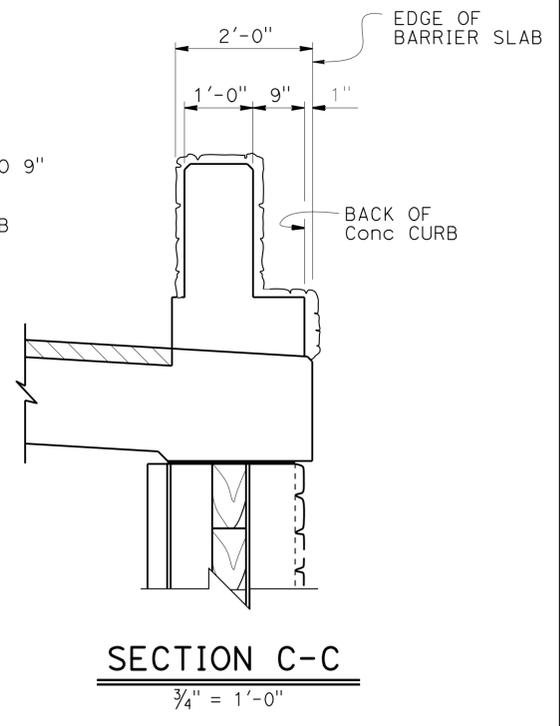
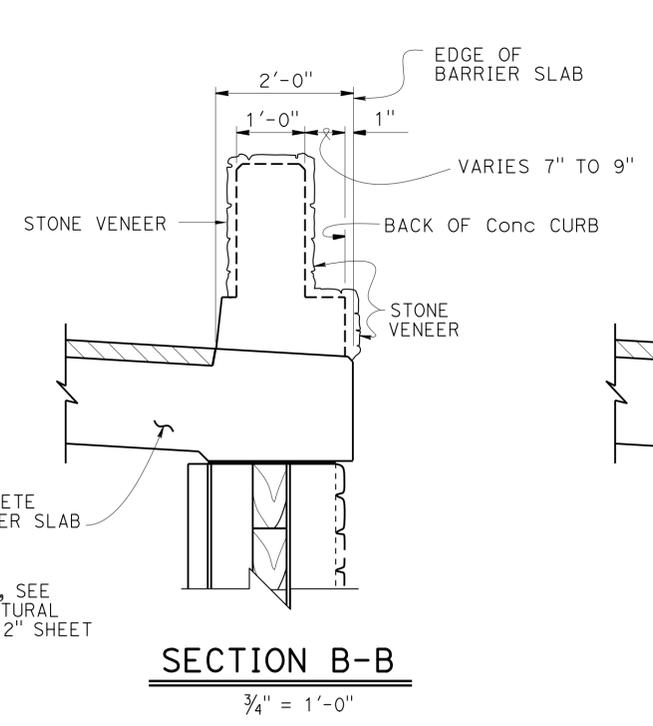
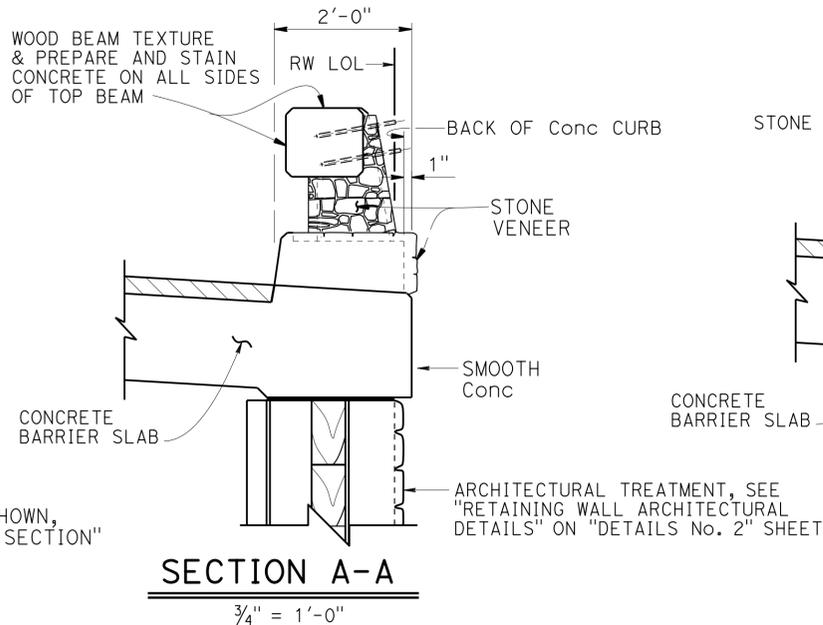
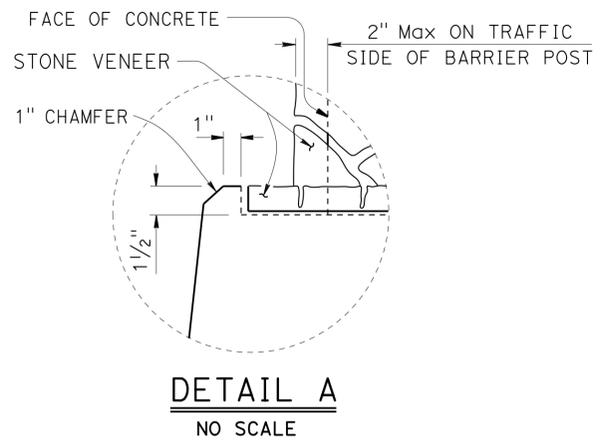
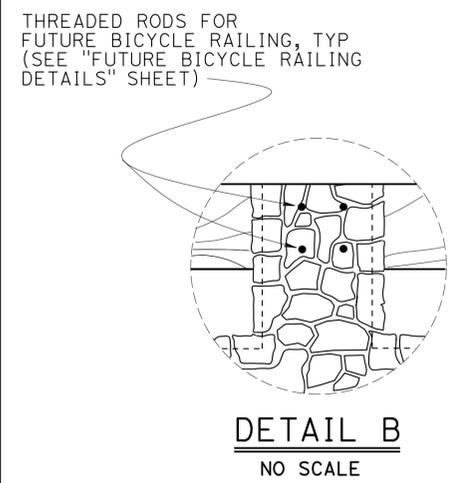
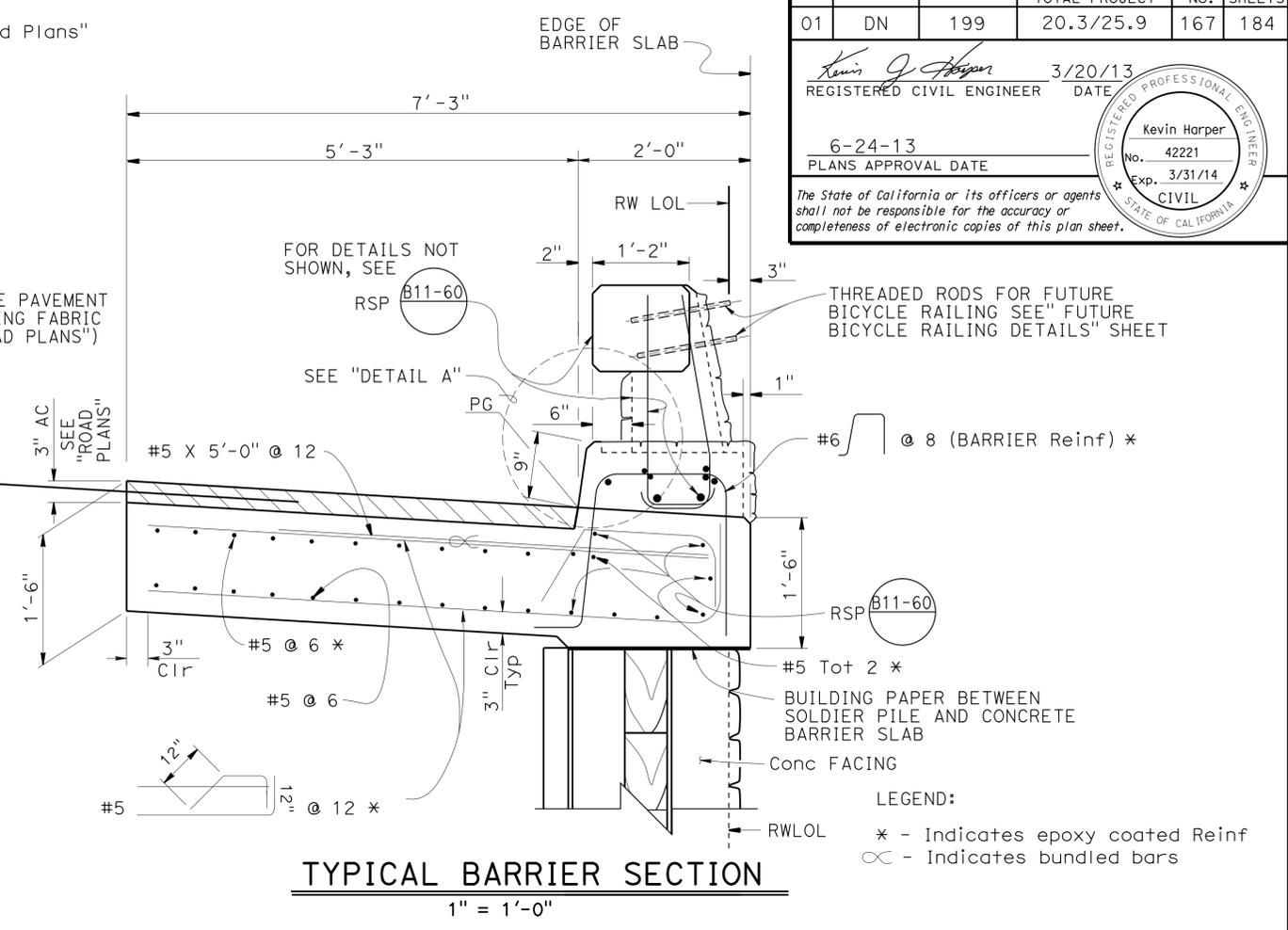
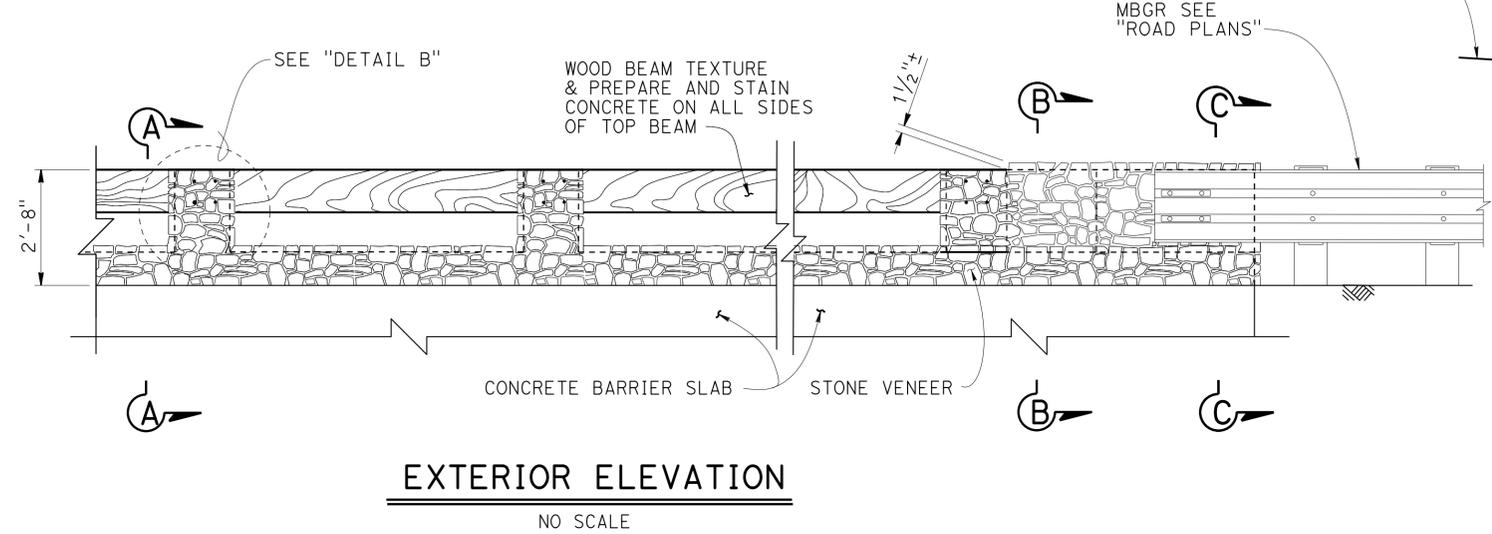
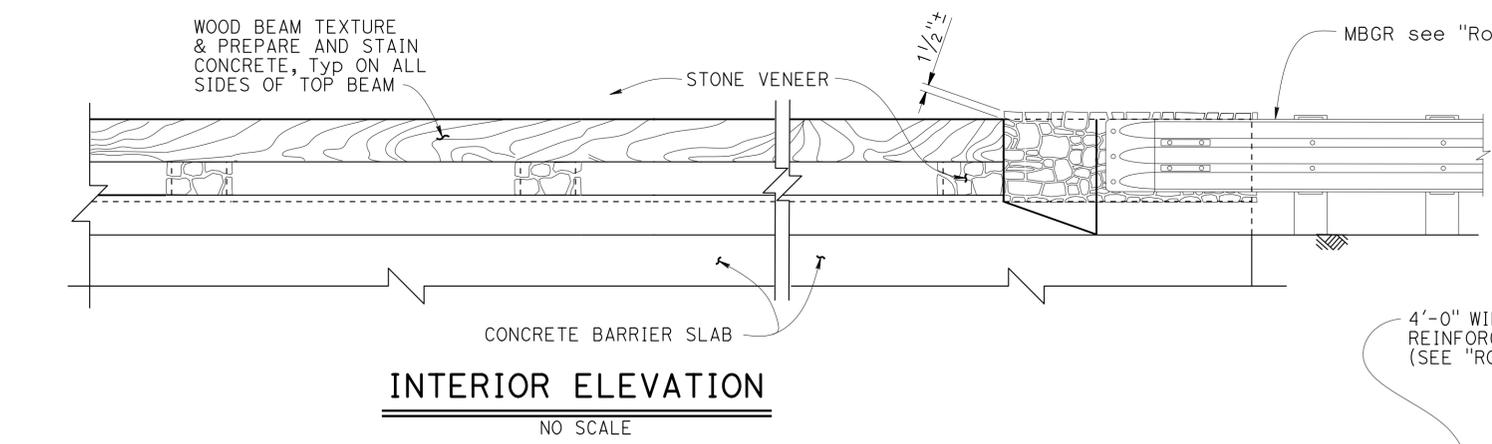
MONKEY CREEK RETAINING WALL
DETAILS No. 3



REVISION DATES		SHEET	OF
1-8-12	11-28-12	7	13

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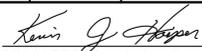
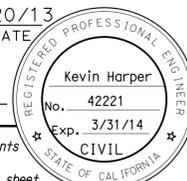
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	167	184
 REGISTERED CIVIL ENGINEER DATE 3/20/13					
6-24-13 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

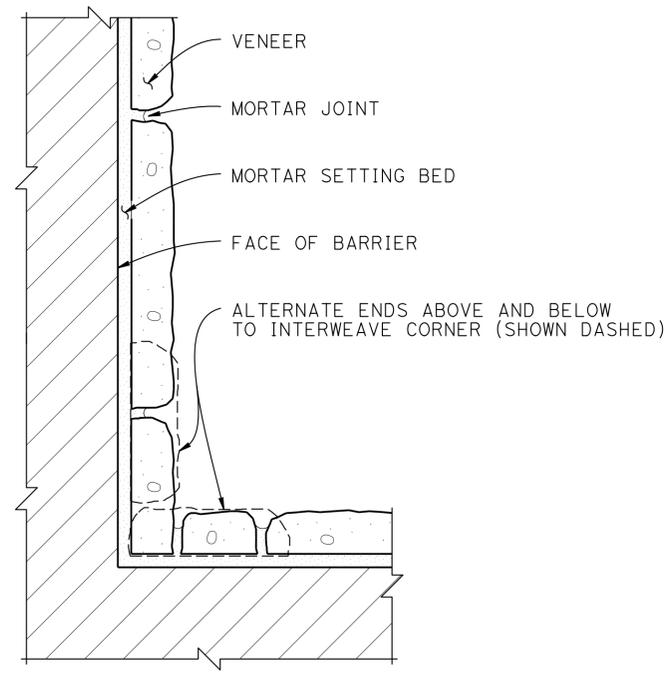


NOTE: FOR DIMENSIONS NOT SHOWN, SEE "TYPICAL BARRIER SECTION"

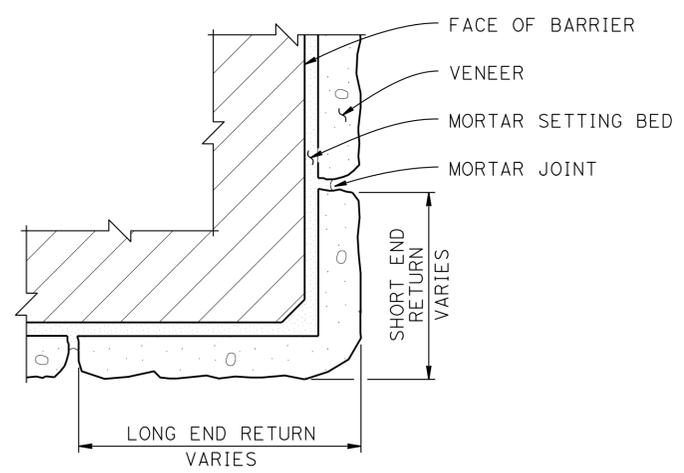
DESIGN BY April Pearson		CHECKED G. Jones / K. Harper	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO.	MONKEY CREEK RETAINING WALL CONCRETE BARRIER TYPE 80 (Mod) No. 1
DETAILS BY Bruno/J. Zhou/F.Rashedi		CHECKED G. Jones/K. Harper			POST MILE	
QUANTITIES BY Kevin Harper		CHECKED Daniel Sessions			25.57	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3576 PROJECT NUMBER & PHASE: 01000003711	CONTRACT NO.: 01-479404	DISREGARD PRINTS BEARING EARLIER REVISION DATES
			0 1 2 3	REVISION DATES	SHEET 8 OF 13	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	168	184

 3/20/13
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE

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INSIDE CORNER DETAIL



OUTSIDE CORNER DETAIL

MANUFACTURED STONE VENEER TEXTURE
NO SCALE

NOTE: The average installed thickness of stone veneer shall be Approx 1 1/2".

DESIGN	BY Stephan Heath	CHECKED Kevin Harper
DETAILS	BY Bob Huddleston	CHECKED Kevin Harper
QUANTITIES	BY Kevin Harper	CHECKED Daniel Sessions

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	
POST MILE	25.97

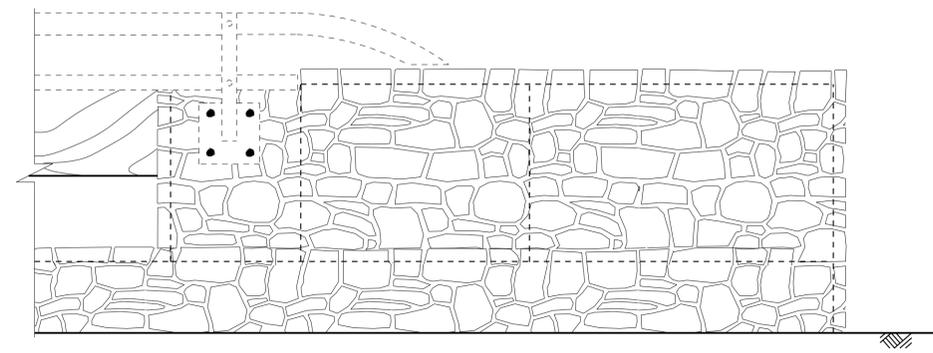
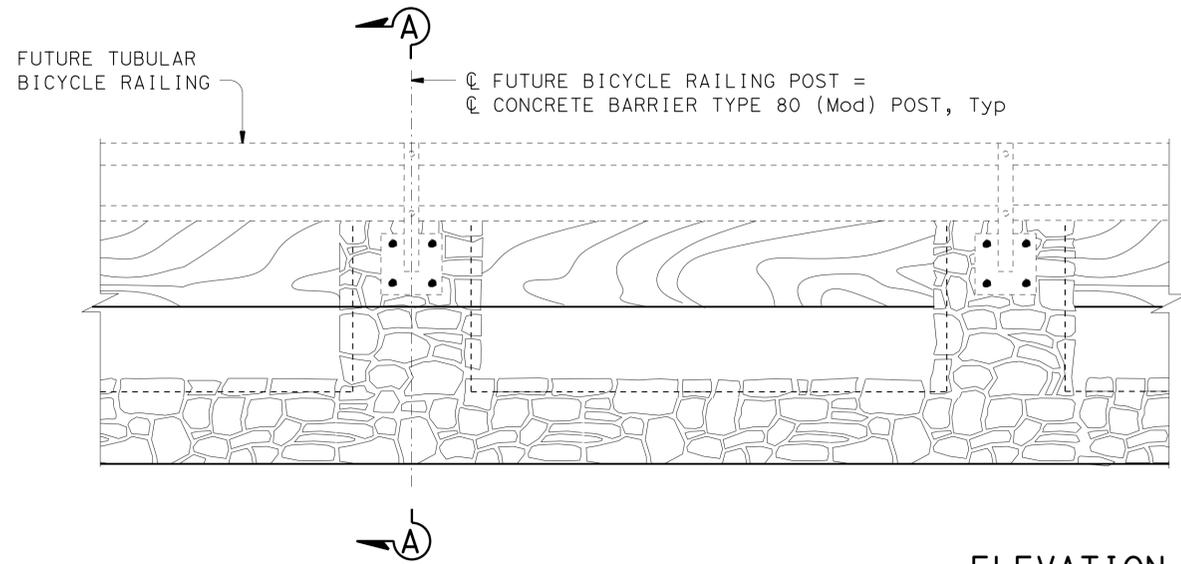
MONKEY CREEK RETAINING WALL
CONCRETE BARRIER TYPE 80 (Mod) No. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	169	184

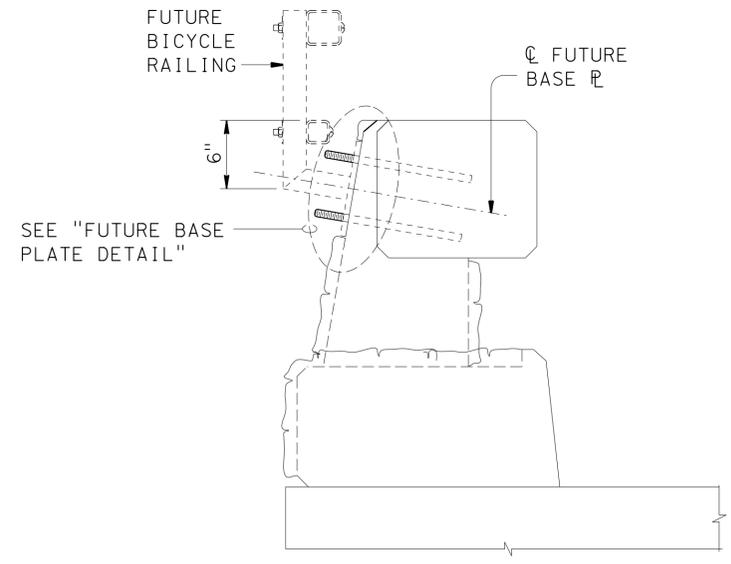
Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE
 Kevin Harper
 No. 42221
 Exp. 3/31/14
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

NOTES:

- For details not shown see "CONCRETE BARRIER TYPE 80 (MOD)" sheet.
- Place rock veneer around threaded rods in the area of the future base plate.

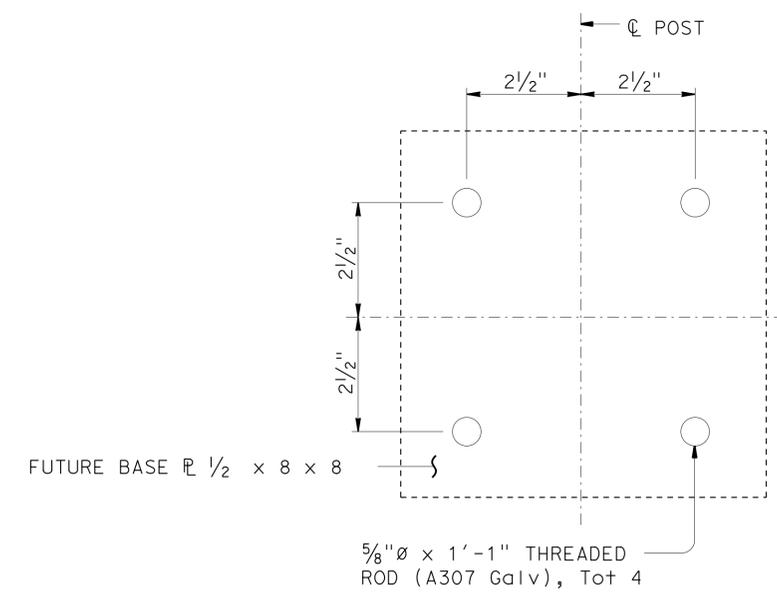


ELEVATION
1" = 1'-0"

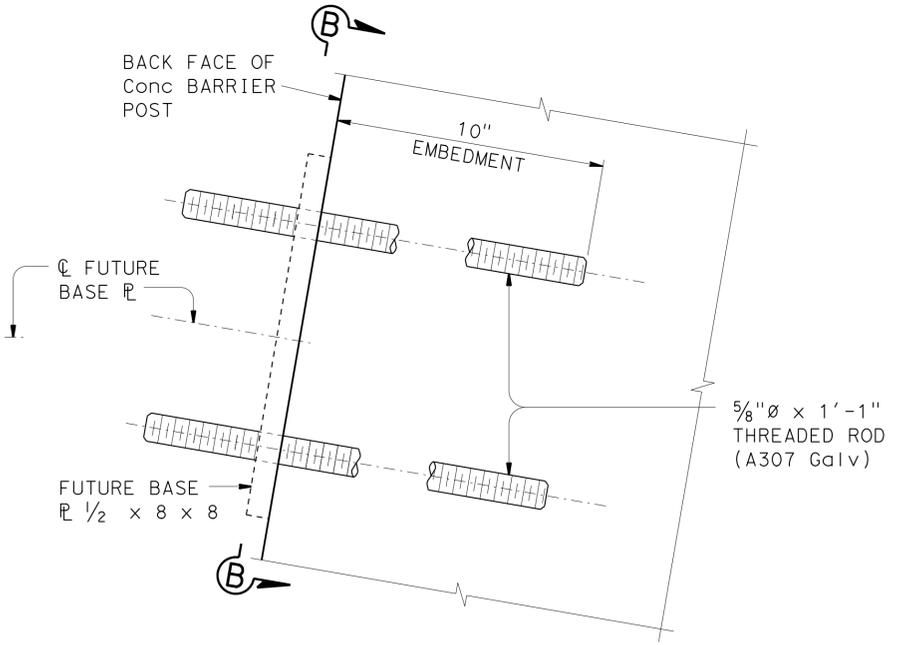


SECTION A-A
1 1/2" = 1'-0"

NOTE: Rock veneer is shown removed in area of base plate for attachment of bicycle railing. See Note 2.



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



FUTURE BASE PLATE DETAIL
6" = 1'-0"

NOTE: Rock veneer not shown

DESIGN	BY Kevin Harper	CHECKED Eric Watson
DETAILS	BY B.Jenko / B.Huddleston	CHECKED Eric Watson
QUANTITIES	BY Kevin Harper	CHECKED Daniel Sessions

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	
POST MILE	25.57

MONKEY CREEK RETAINING WALL
FUTURE BICYCLE RAILING DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
01	DN	199	20.3/25.9	170	184

11-30-12

CERTIFIED ENGINEERING GEOLOGIST

6-24-13
PLANS APPROVAL DATE

PROFESSIONAL GEOLOGIST

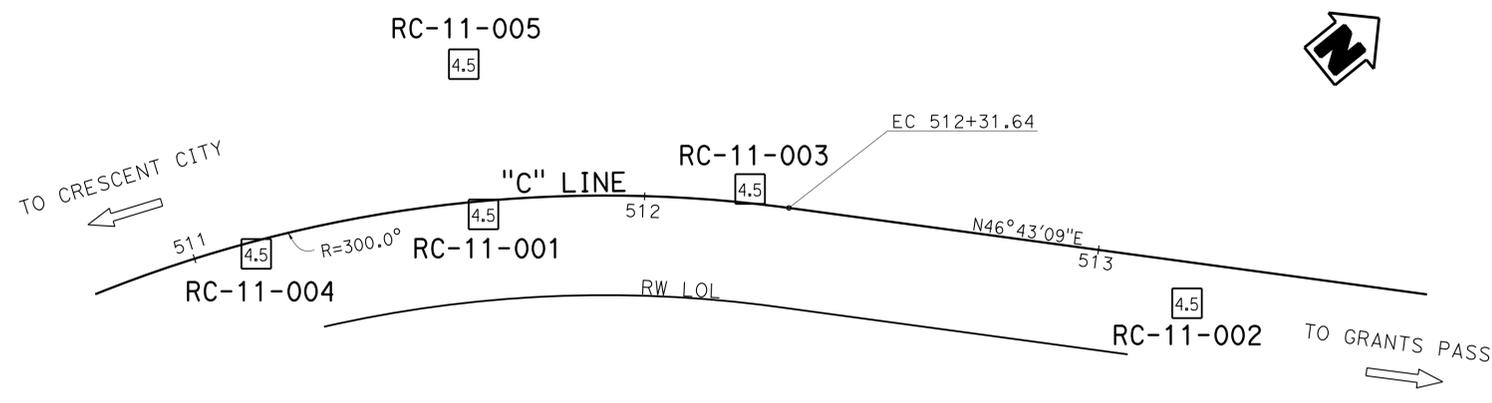
Charles Narwold
No. 2335
Exp. 9-30-13
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

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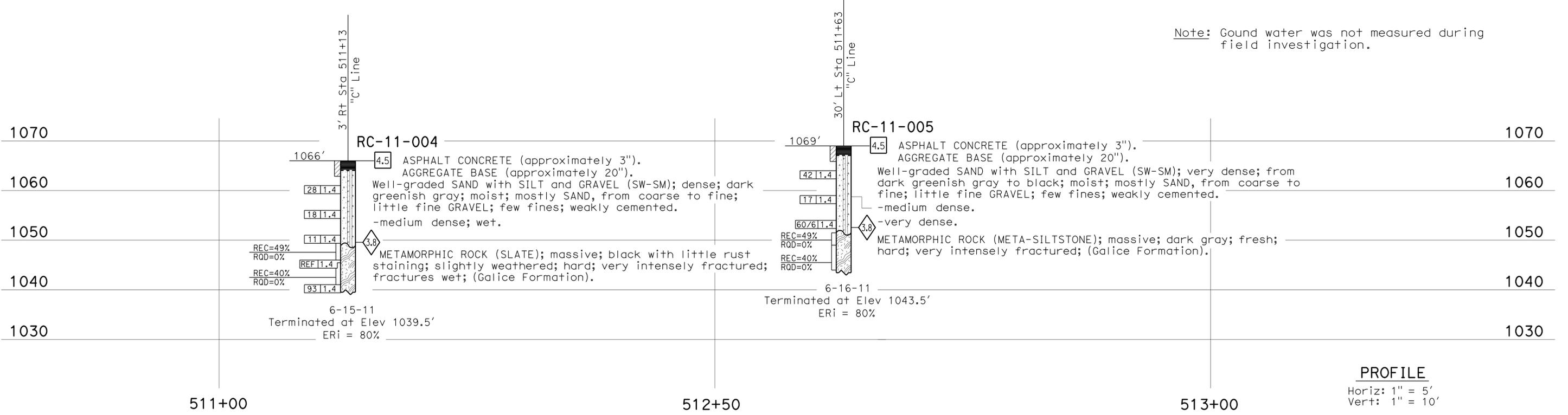
This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition). See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

BENCH MARK

Fnd aluminum cap and rebar
N 2575917.415
E 6069885.314
Elev 1086.13'
NAVD88



PLAN
1" = 20'



PROFILE
Horiz: 1" = 5'
Vert: 1" = 10'

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1		MONKEY CREEK RETAINING WALL LOG OF TEST BORINGS 1 OF 3	
FUNCTIONAL SUPERVISOR NAME: R. Bibbens	DRAWN BY: I.G-Remmen CHECKED BY: R. Newman	FIELD INVESTIGATION BY: D. Vann		BRIDGE NO. POST MILE 25.57		CONTRACT NO.: 01-479404		REVISION DATES 10-24-12 11-29-12	
OGS CIVIL LOG OF TEST BORINGS SHEET				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643 PROJECT NUMBER & PHASE: 01000003711		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
								SHEET	OF
								11	13

USERNAME => s121614 DATE PLOTTED => 24-JUN-2013 TIME PLOTTED => 09:31

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
01	DN	199	20.3/25.9	172	184

11-30-12

CERTIFIED ENGINEERING GEOLOGIST

6-24-13
PLANS APPROVAL DATE

PROFESSIONAL GEOLOGIST

Charles Narwold
No. 2335
Exp. 9-30-13
CERTIFIED ENGINEERING GEOLOGIST

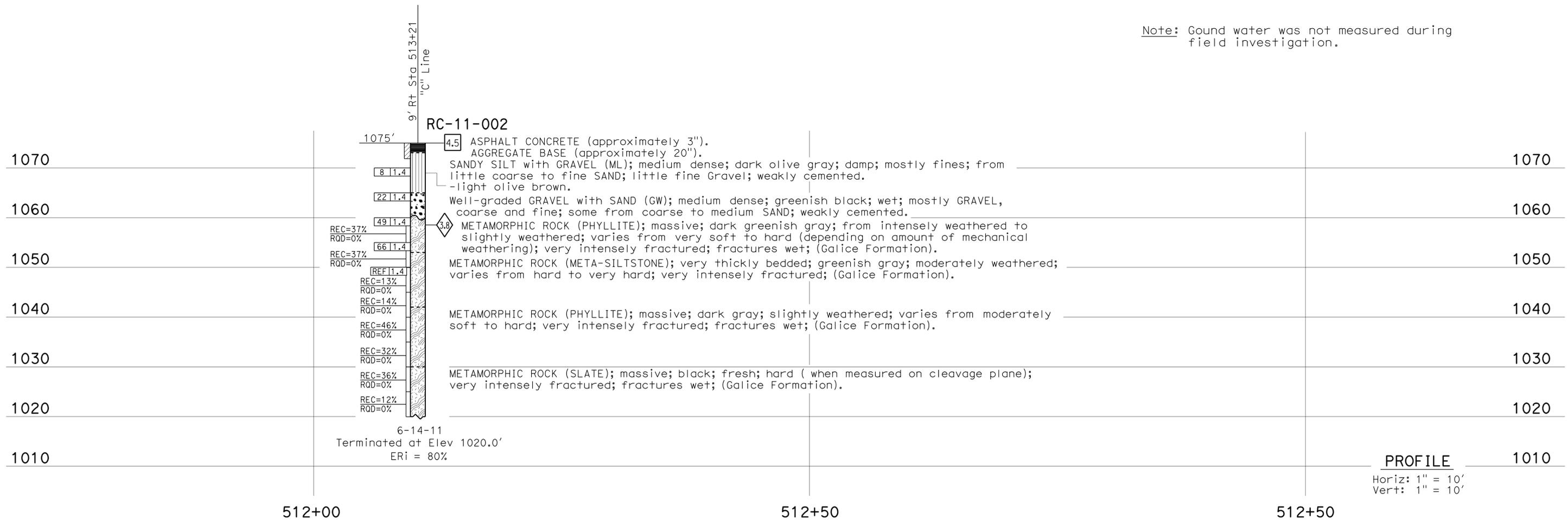
STATE OF CALIFORNIA

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This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).
See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 3"

Note: Ground water was not measured during field investigation.



512+00

512+50

512+50

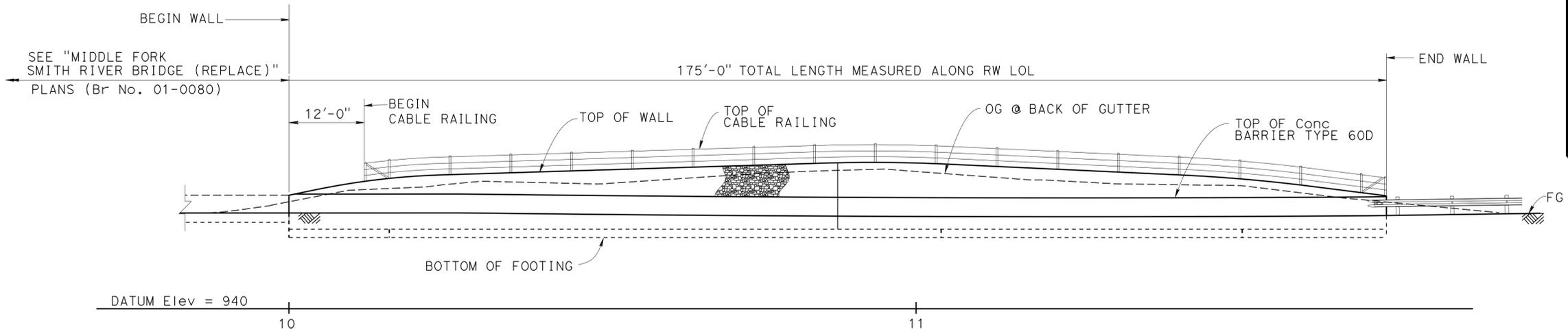
ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO. POST MILE 25.57	MONKEY CREEK RETAINING WALL LOG OF TEST BORINGS 3 OF 3
FUNCTIONAL SUPERVISOR NAME: R. Bibbens	DRAWN BY: I.G-Remmen CHECKED BY: R. Newman	FIELD INVESTIGATION BY: D. Vann		UNIT: 3643 PROJECT NUMBER & PHASE: 01000003711	CONTRACT NO.: 01-479404	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 10-24-12 11-29-12 SHEET 13 OF 13

065 CIVIL LOG OF TEST BORINGS SHEET ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 FILE => rw-z-1+tb03.dgn

USERNAME => s121614 DATE PLOTTED => 24-JUN-2013 TIME PLOTTED => 09:31

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	173	184

Kevin J. Harper
 REGISTERED CIVIL ENGINEER DATE 3/20/13
 PLANS APPROVAL DATE 6-24-13
 Kevin Harper
 No. 42221
 Exp. 3/31/14
 CIVIL
 STATE OF CALIFORNIA
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MIRRORED DEVELOPED ELEVATION
1" = 10'

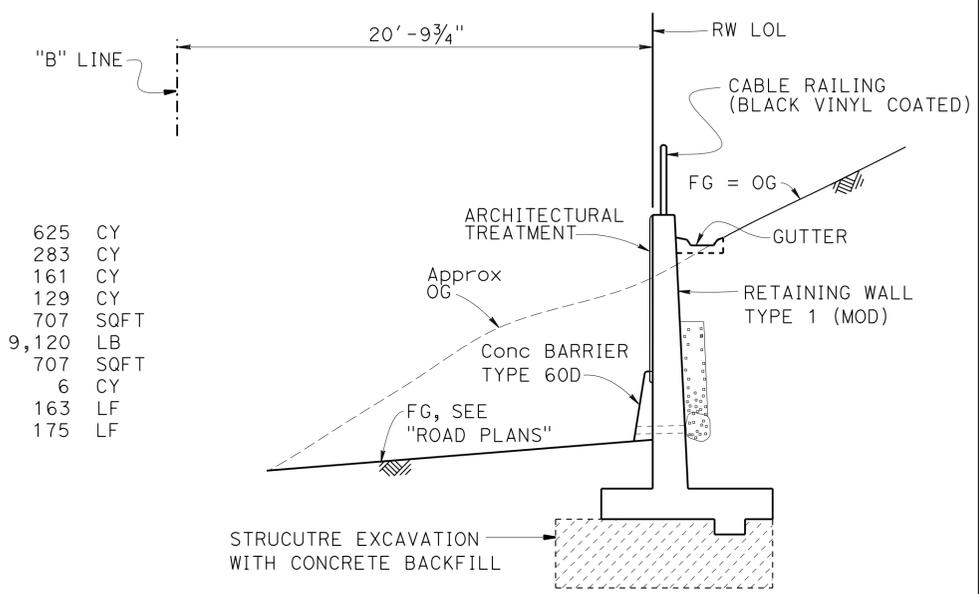
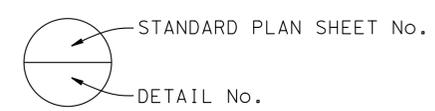
INDEX TO PLANS

SHEET NO.	TITLE
1.	GENERAL PLAN
2.	STRUCTURE PLAN
3.	FOUNDATION PLAN
4.	RETAINING WALL TYPE 1 (MOD)
5.	RETAINING WALL DETAILS
6.	LOG OF TEST BORINGS (1 OF 7)
7.	LOG OF TEST BORINGS (2 OF 7)
8.	LOG OF TEST BORINGS (3 OF 7)
9.	LOG OF TEST BORINGS (4 OF 7)
10.	LOG OF TEST BORINGS (5 OF 7)
11.	LOG OF TEST BORINGS (6 OF 7)
12.	LOG OF TEST BORINGS (7 OF 7)

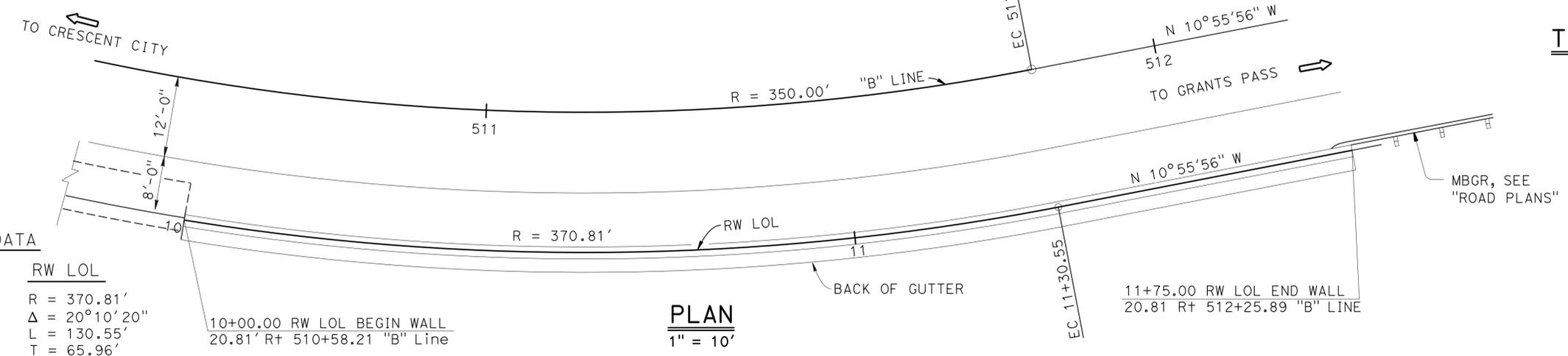
STANDARD PLANS DATED MAY 2010

STANDARD PLAN SHEET No.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A10H	LEGEND - ROCK
A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE AND WALL
A76A	CONCRETE BARRIER TYPE 60
BO-3	BRIDGE DETAILS
B3-6	RETAINING WALL DETAILS NO. 2
RSP B11-47	CABLE RAILING

QUANTITIES	DESCRIPTION	UNIT	AMOUNT
625	STRUCTURE EXCAVATION (RETAINING WALL)	CY	
283	STRUCTURE BACKFILL (RETAINING WALL)	CY	
161	CONCRETE BACKFILL	CY	
129	STRUCTURAL CONCRETE, RETAINING WALL	CY	
707	RANDOM ROCK TEXTURE	SQFT	
9,120	BAR REINFORCING STEEL (RETAINING WALL)	LB	
707	PREPARE AND STAIN CONCRETE	SQFT	
6	MINOR CONCRETE (GUTTER) (CY)	CY	
163	CABLE RAILING (MODIFIED)	LF	
175	CONCRETE BARRIER (TYPE 60D)	LF	



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



CURVE DATA	
"B" LINE	RW LOL
R = 350.00'	R = 370.81'
Δ = 31°48'06"	Δ = 20°10'20"
L = 194.27'	L = 130.55'
T = 99.71'	T = 65.96'

PLAN
1" = 10'

Jeff Sims DESIGN ENGINEER	DESIGN	BY April Pearson	CHECKED Greg Jones	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO.	NORTH RETAINING WALL GENERAL PLAN			
	DETAILS	BY Bruno Jenko / J. Zhou	CHECKED Greg Jones			LAYOUT		BY April Pearson	CHECKED Greg Jones	POST MILE
	QUANTITIES	BY Greg Thornton	CHECKED Paul Hayes			SPECIFICATIONS		BY Dave Klein	PLANS AND SPECS COMPARED Dave Klein	24.11

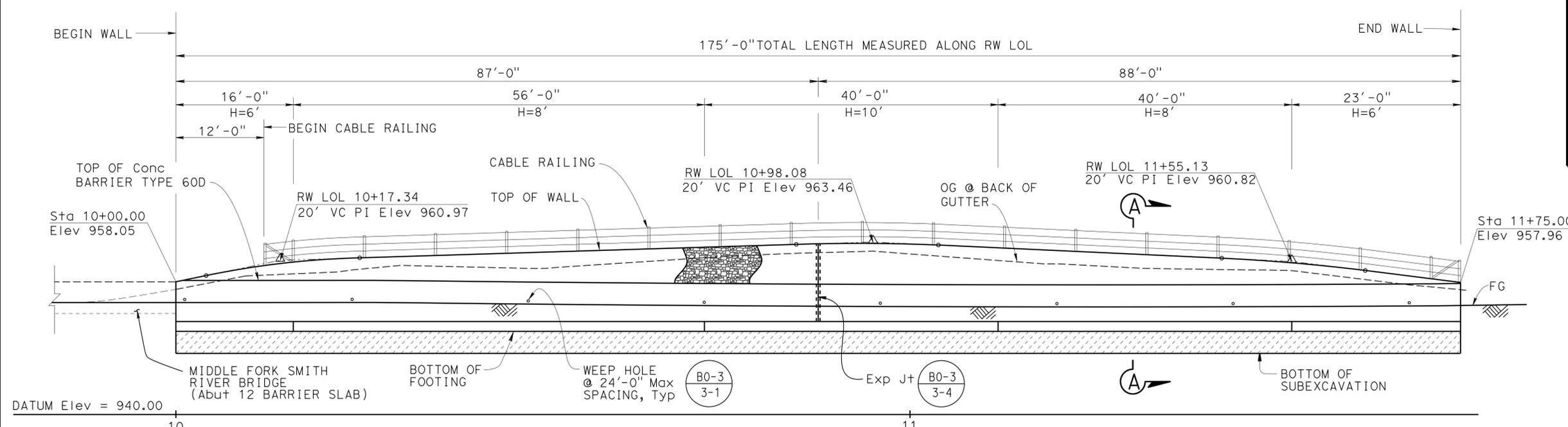
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3576
 PROJECT NUMBER & PHASE: 01000003711
 CONTRACT NO.: 01-479404
 DISREGARD PRINTS BEARING EARLIER REVISION DATES

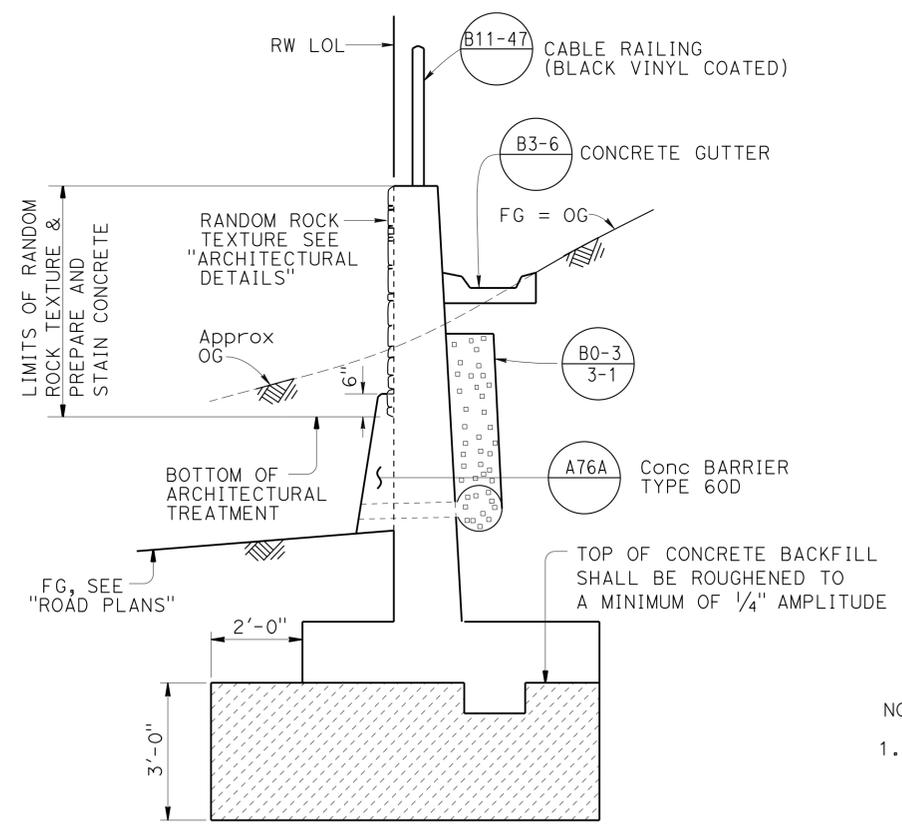
REVISION DATES	SHEET	OF
12-22-11	1	12

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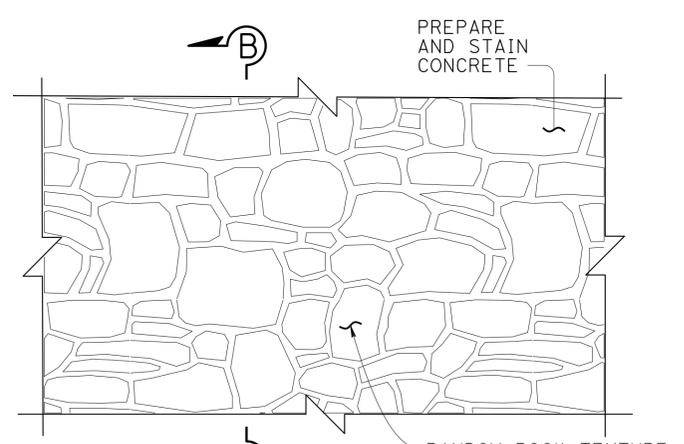
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	174	184
			3/20/13	DATE	
6-24-13			PLANS APPROVAL DATE		
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MIRRORED DEVELOPED ELEVATION
1/8"=1'-0"



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



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

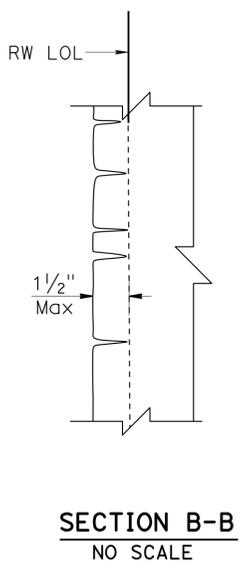
ARCHITECTURAL DETAILS
AS NOTED

NOTES:

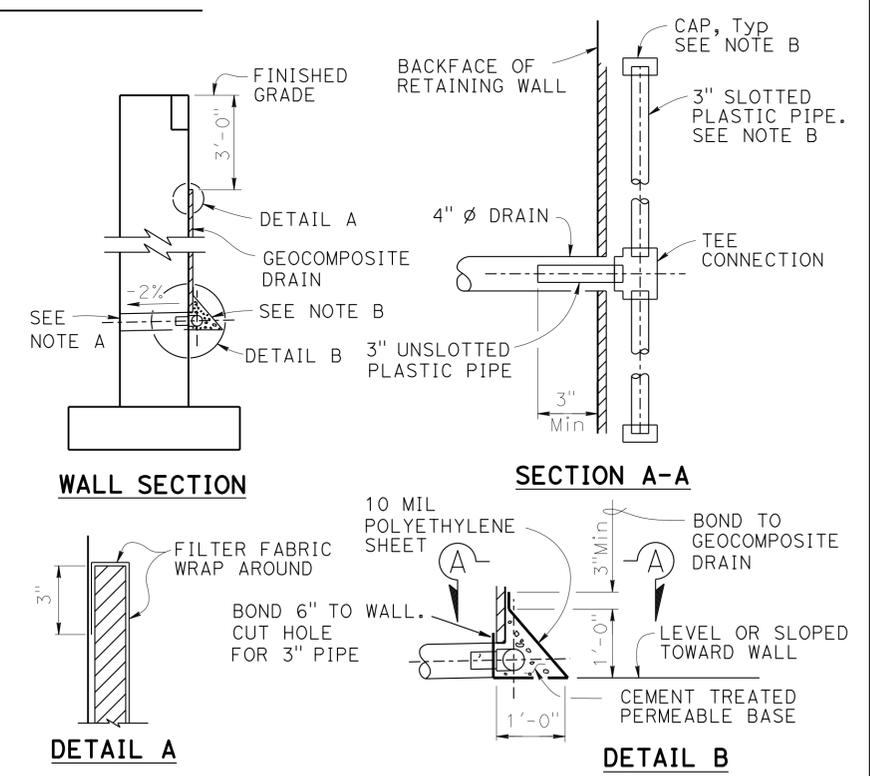
- The Contractor shall not have the option of sloping back structure excavation. All structure excavation shall be cut vertical or near vertical. This provision includes any material removed outside of, but contiguous to the pay limits of structure excavation.
- All longitudinal dimensions are measured along RW LOL.
- For details not shown, see "RETAINING WALL TYPE 1 (MOD)" sheet.

LEGEND:

Indicates Structure Excavation with Concrete Backfill



SECTION B-B
NO SCALE



WALL SECTION

SECTION A-A

DETAIL A

DETAIL B

WEEP HOLE AND GEOCOMPOSITE DRAIN

ALTERNATIVE TO BRIDGE DETAIL

NOTES:

- 4" ϕ drains at 25' max center to center. Exposed wall drains shall be located 3"± above finished grade.
- Geocomposite drain, cement treated permeable base, and 3" ϕ slotted plastic pipe continuous behind retaining wall. Cap ends of pipe. Provide "Tee" connection at each 4" ϕ drain.

DESIGN BY April Pearson		CHECKED Greg Jones	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO.	NORTH RETAINING WALL STRUCTURE PLAN
DETAILS BY Bruno Jenko / J. Zhou		CHECKED Greg Jones			POST MILE	
QUANTITIES BY Greg Thornton / K. Harper		CHECKED Paul Hayes / E. Watson			24.11	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3576	PROJECT NUMBER & PHASE: 01000003711	CONTRACT NO.: 01-479404
			0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 2 OF 12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	175	184

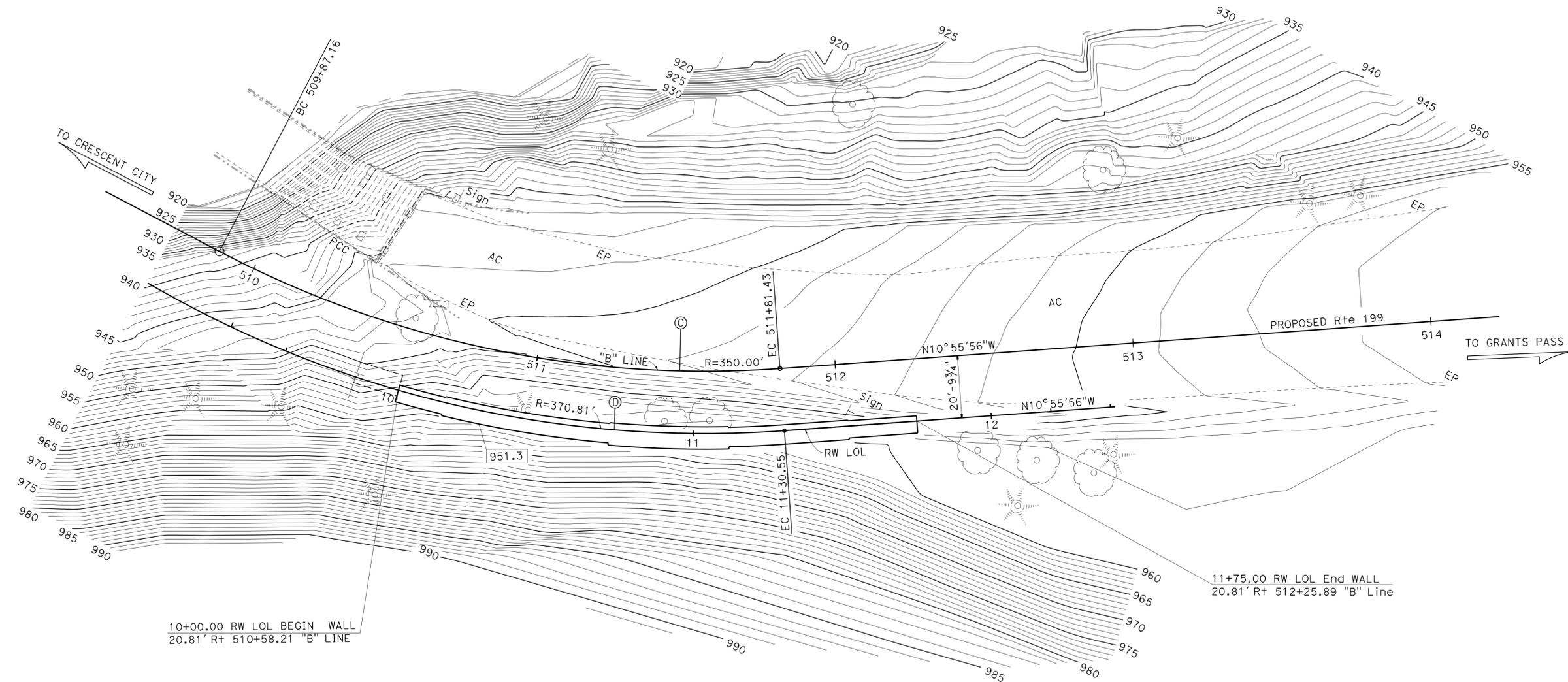
CURVE DATA				
No.	R	Δ	T	L
Ⓒ	350.00	31°48'06"	99.71	194.27
Ⓓ	370.81	20°10'20"	65.96	130.55



Kevin J. Harper 3/20/13
 REGISTERED CIVIL ENGINEER DATE
 6-24-13
 PLANS APPROVAL DATE

Kevin Harper
 No. 42221
 Exp. 3/31/14
 CIVIL
 STATE OF CALIFORNIA

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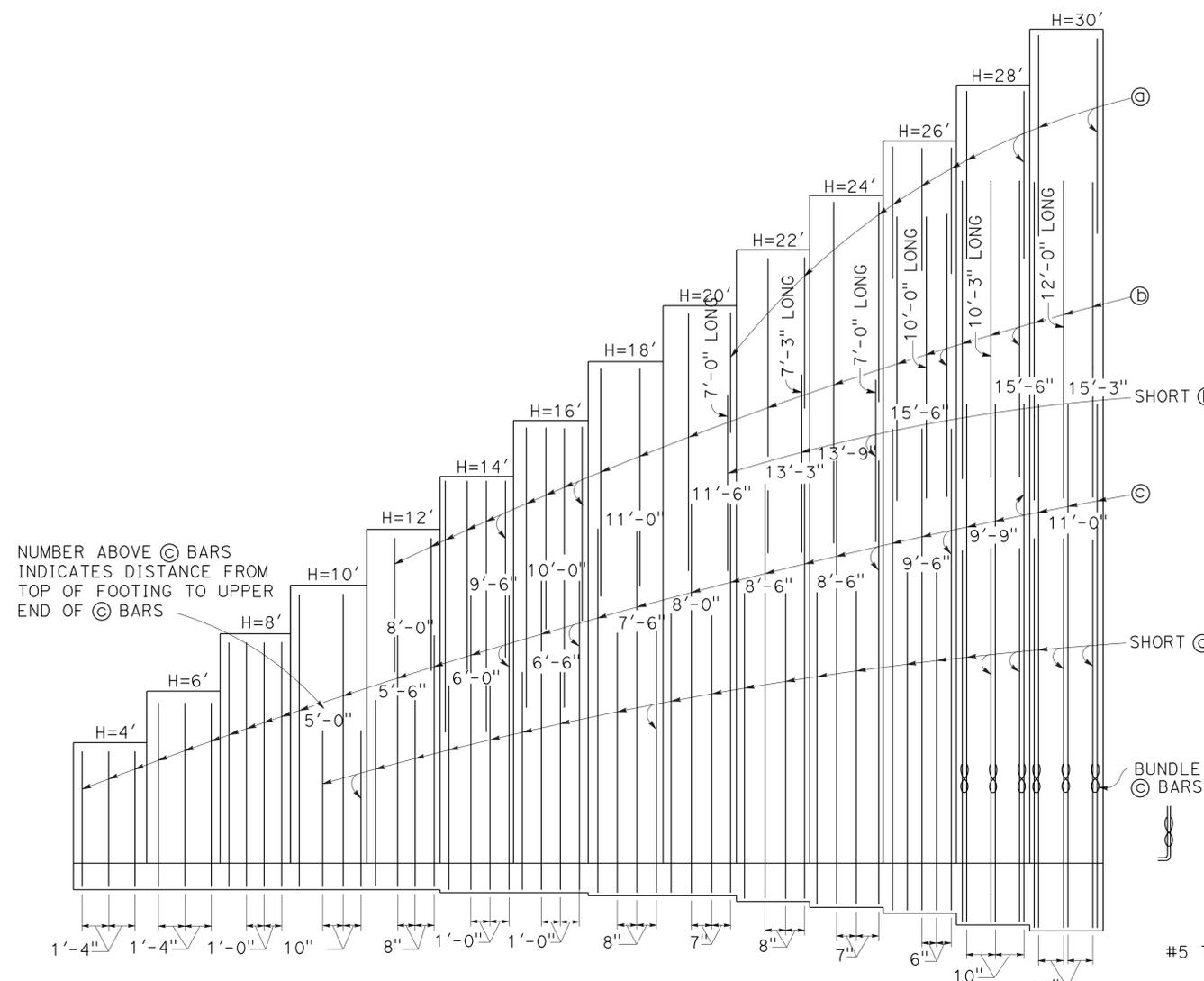
Notes:
 Indicates bottom of footing elevation

PRELIMINARY INVESTIGATION SECTION				DESIGN	BY April Pearson	CHECKED Greg Jones	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO.	NORTH RETAINING WALL FOUNDATION PLAN				
SCALE	VERT. DATUM	NAVD 88	PHOTOGRAMMETRY AS OF: X	DETAILS	BY Bruno Jenko / J. Zhou	CHECKED Greg Jones			POST MILE					
1"=20'	HORIZ. DATUM	NAD83	SURVEYED	BY District	CHECKED Tim Schmalz 05/2011	CHECKED Chris Fasset 05/2011			24.11					
ALIGNMENT TIES Dist. Traverse Sheet				DRAFTED	BY Sharon Zheng 05/2011	CHECKED Paul Hayes	UNIT: 3576	PROJECT NUMBER & PHASE: 01 0000 0371-1	CONTRACT NO.: 01-479404	DISREGARD PRINTS BEARING EARLIER REVISION DATES				
STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 09-01-10)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0	1	2	3	REVISION DATES	SHEET	OF
								2/21/2011	10-09-12	04/26/12	3	12		

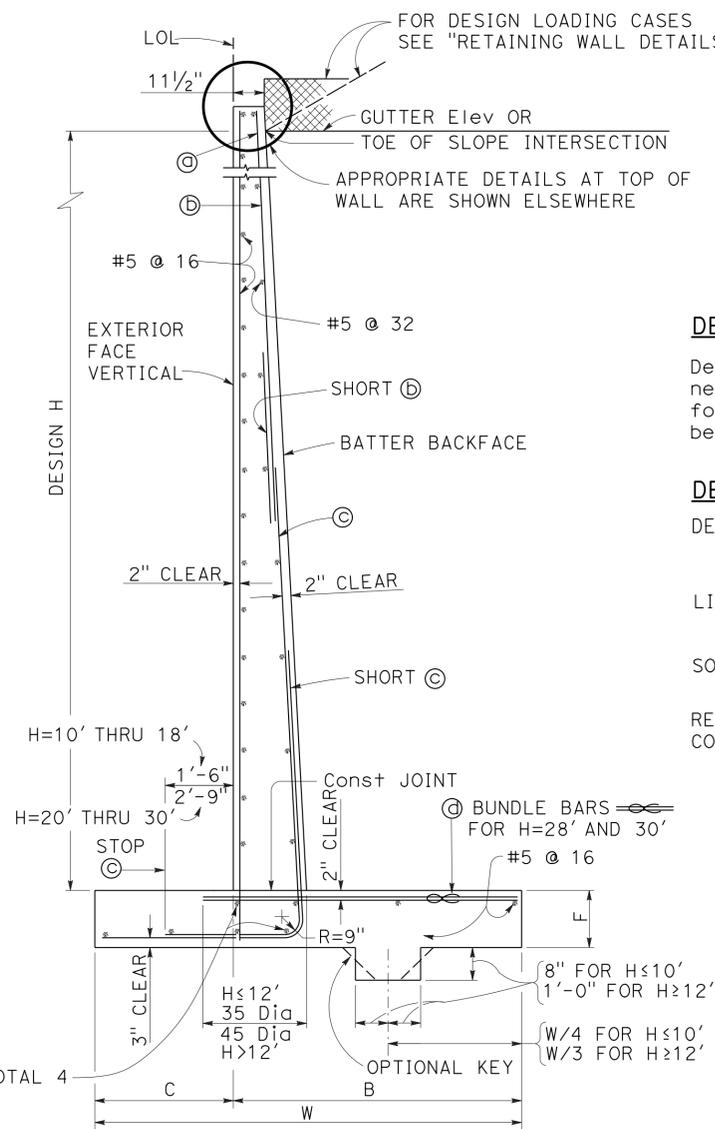
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	176	184

REGISTERED CIVIL ENGINEER
 DATE 3/20/13
 6-24-13
 PLANS APPROVAL DATE
 DATE 6-30-14
 Exp. 6-30-14
 CIVIL
 STATE OF CALIFORNIA



ELEVATION



TYPICAL SECTION

DESIGN CONDITIONS:

Design H may be exceeded by 6" before going to the next size. Special footing design is required where foundation material is incapable of supporting bearing stress listed in table.

DESIGN NOTES:

- DESIGN: AASHTO LRFD Bridge Design Specifications, 4th edition with California Amendments
 LIVE LOAD: Surcharge on level ground surface
 SOIL: $\phi = 34^\circ$
 $\gamma = 120$ pcf
 REINFORCED CONCRETE: $f_y = 60,000$ psi
 $f_c' = 3,600$ psi
 $n = 8$

NOTES:

- For details not shown and drainage notes see "RETAINING WALL DETAILS" sheet.
- For wall stem joint details see $\frac{B0-3}{3-3}$ and $\frac{B0-3}{3-4}$
- At © and Short © bars:
 $H \leq 6'$, no splices are allowed within 1'-8" above the top of footing.
 $H > 6'$, no splices are allowed within H/4 above the top of footing.

DESIGN H	4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'
W	4'-9"	5'-9"	6'-6"	7'-6"	9'-6"	12'-6"	13'-6"	14'-6"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"
C	1'-5"	1'-9"	2'-0"	2'-3"	2'-9"	3'-0"	3'-6"	4'-0"	4'-4"	4'-6"	5'-0"	5'-3"	5'-6"	6'-0"
B	3'-4"	4'-0"	4'-6"	5'-3"	6'-9"	9'-6"	10'-0"	10'-6"	10'-8"	11'-6"	12'-0"	12'-9"	13'-6"	14'-0"
F	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-8"	1'-8"	1'-8"	1'-8"	1'-9"	2'-3"	2'-5"	2'-8"	3'-0"
BATTER	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	5/8:12	3/4:12	3/4:12	7/8:12
© BARS	—	—	—	—	—	—	—	—	#5 @ 28	#5 @ 32	#5 @ 28	#5 @ 12	#5 @ 20	#8 @ 20
© BARS	—	—	—	—	#5 @ 16	#5 @ 12	#5 @ 12	#6 @ 16	#8 @ 14	#8 @ 16	#8 @ 14	#8 @ 12	#8 @ 10	#9 @ 10
© BARS	#5 @ 16	#5 @ 16	#5 @ 12	#6 @ 10	#6 @ 8	#9 @ 12	#9 @ 12	#9 @ 8	#9 @ 7	#11 @ 8	#11 @ 7	#11 @ 6	#11 @ 10	#11 @ 10
© BARS	#5 @ 16	#5 @ 16	#5 @ 12	#6 @ 10	#6 @ 8	#9 @ 12	#9 @ 12	#9 @ 8	#10 @ 7	#11 @ 8	#11 @ 7	#11 @ 6	#11 @ 10	#11 @ 10
LOADING CASE I	Ser: B', q _o 4.4, 0.7	5.1, 0.9	5.4, 1.2	6.2, 1.4	8.5, 1.4	11.8, 1.6	12.8, 1.7	13.8, 1.8	13.9, 2.0	14.6, 2.3	15.2, 2.5	15.9, 2.8	16.5, 3.1	17.2, 3.3
LOADING CASE II	Ser: B', q _o 4.3, 1.5	4.9, 1.9	5.1, 2.2	5.8, 2.5	8.2, 2.6	11.5, 2.6	12.4, 3.0	13.3, 3.1	13.4, 3.4	14.0, 3.8	14.5, 4.2	15.1, 4.6	15.7, 5.1	16.3, 5.5
LOADING CASE III	Ser: B', q _o 4.7, 1.1	5.6, 1.4	6.0, 1.8	6.7, 2.3	8.8, 2.6	12.0, 3.1	12.8, 3.4	13.6, 3.7	13.7, 4.2	14.3, 4.7	14.8, 5.3	15.4, 5.9	15.9, 6.5	16.5, 7.0
LOADING CASE III	Ser: B', q _o 4.3, 0.7	4.5, 1.0	4.7, 1.4	5.1, 1.7	6.8, 1.8	8.7, 2.3	9.6, 2.4	10.5, 2.6	10.5, 2.9	11.2, 3.2	11.7, 3.5	12.4, 3.9	13.1, 4.2	13.7, 4.4
LOADING CASE III	Ser: B', q _o 4.1, 1.4	4.5, 1.8	4.5, 2.4	4.7, 3.0	6.3, 3.2	8.0, 4.0	9.0, 4.2	9.9, 4.4	9.7, 4.9	10.5, 5.4	10.9, 5.9	11.6, 6.4	12.2, 6.9	12.7, 7.4

SYMBOLS:

Ser - service limit state 1
 Str - strength limit state 1
 B' - effective footing width (ft)
 q_o - net bearing stress (ksf)
 q_o - gross uniform bearing stress (ksf)
 ⋈ Denotes a bundle of 2 bars

DESIGN BY Gary Wang	CHECKED Victor Lopez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	NORTH RETAINING WALL RETAINING WALL TYPE 1 (MOD)
DETAILS BY Bob Huddleston	CHECKED Victor Lopez		POST MILE	
QUANTITIES BY Greg Thornton	CHECKED Paul Hayes		24.11	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3576	DISREGARD PRINTS BEARING EARLIER REVISION DATES
		0 1 2 3	PROJECT NUMBER & PHASE: 01000003711	REVISION DATES
			CONTRACT NO.: 01-479404	SHEET 4 OF 12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	177	184

REGISTERED CIVIL ENGINEER **Gary Wang** DATE 3/20/13
 No. C58298
 Exp. 6-30-14
 CIVIL
 STATE OF CALIFORNIA

6-24-13
 PLANS APPROVAL DATE

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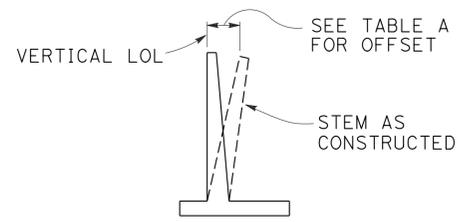


TABLE A

H	OFFSET
4'-12'	H/200
14'-16'	H/160
18'-20'	H/140
22'-24'	H/130
26'-36'	2 1/2"

APPROXIMATE WALL OFFSET VALUES

Values for offsetting forms to be determined by the Engineer.

DESIGN CONDITIONS:

Design "H" may be exceeded by 6" before going to the next size. Special footing design is required where foundation material is incapable of supporting bearing stress listed in table

Return wall not required unless shown elsewhere

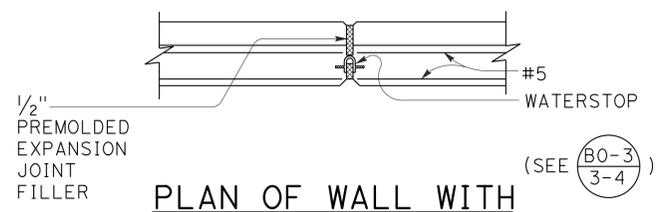
DESIGN NOTES:

DESIGN: AASHTO LRFD Bridge Design Specifications, 4th edition with California Amendments

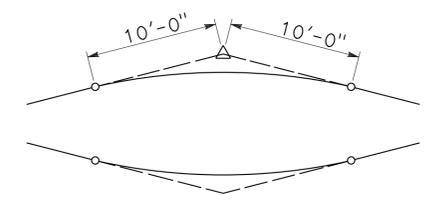
LIVE LOAD: Surcharge on level ground surface

SOIL: $\phi = 34^\circ$
 $\gamma = 120$ pcf

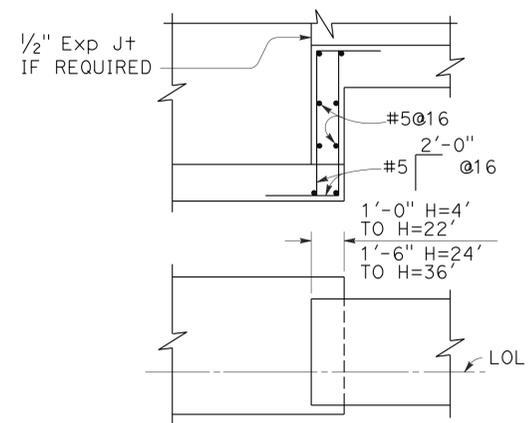
REINFORCED CONCRETE: $f_y = 60,000$ psi
 $f_c' = 3,600$ psi
 $n = 8$



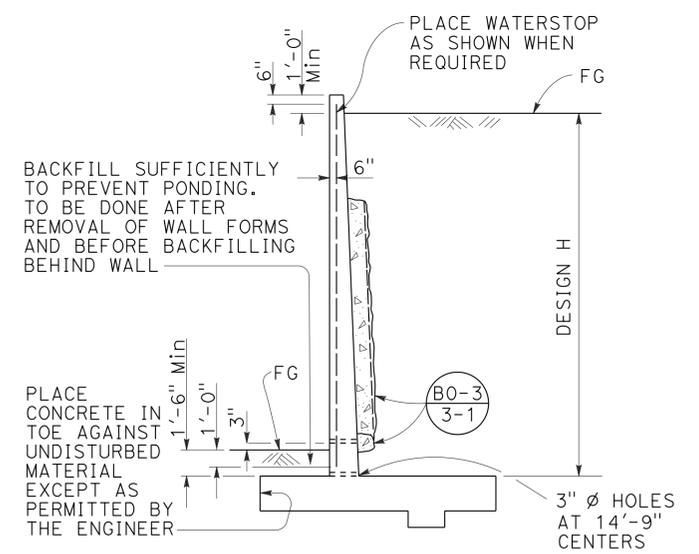
PLAN OF WALL WITH BRIDGE DETAIL 3-4



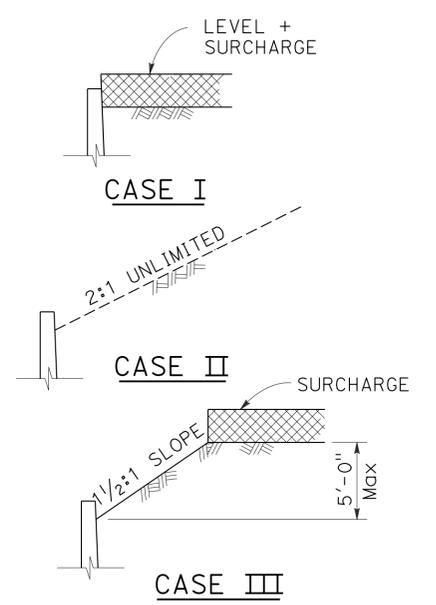
20'-0" VC AT TOP OF WALL SLOPE CHANGE
Where shown on the plans



FOOTING STEP



DESIGN AND DRAINAGE



Case I Level + surcharge
Case II 2:1 Unlimited slope
Case III 1 1/2:1 Limited slope (5'-0" Max height) + surcharge

DETAIL OF DESIGN LOADING CASES

DESIGN	BY Gary Wang	CHECKED Victor Lopez
DETAILS	BY Bob Huddleston	CHECKED Victor Lopez
QUANTITIES	BY Greg Thornton	CHECKED Paul Hayes

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO.	
POST MILE	24.11

**NORTH RETAINING WALL
RETAINING WALL DETAILS**

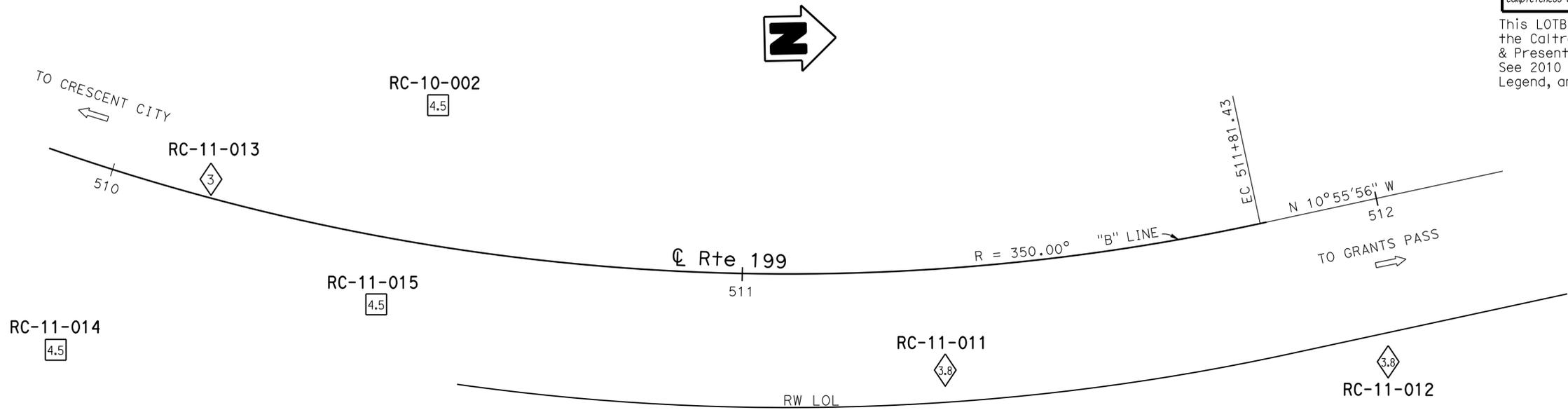
BENCH MARK

DN199-24.20
 Fnd 1/2" Alum cap on 3/4" Rebar
 25.31 Rt "A" Line, C Rte 199
 Sta 515+01.76
 N 2,573,897.92
 E 6,064,118.92
 Elev 960.50'
 NAVD88

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	178	184

Jacqueline A. Martin 9-6-12
 PROFESSIONAL GEOLOGIST DATE
 6-24-13
 PLANS APPROVAL DATE
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PROFESSIONAL GEOLOGIST
 Jacqueline A. Martin
 No. 8705
 Exp. 10-31-12
 STATE OF CALIFORNIA



Notes:

- All borings were advanced using a self-casing 3-3/4" (diameter) wireline drill system.
- Groundwater was measured during the field investigation in Boring RC-10-002. Please refer to this boring for groundwater level measurements. During the field investigation, groundwater was not measured in the remaining borings. These borings were immediately backfilled after completion of the drilling operations.
- Groundwater levels indicated on the Log of Test Borings (LOTB) sheets reflect the measured groundwater levels in the boring on the specified date. Groundwater surface elevations are subject to seasonal fluctuations and will be encountered at higher or lower elevations depending upon conditions at time of construction.
- During the field investigation, circulation was lost in Borings RC-11-013, RC-11-014, and RC-11-015. Drilling was stopped and 4" (diameter) casing was installed in Borings RC-11-013, RC-11-014, and RC-11-15. Refer to the LOTB sheets for casing elevations. Drilling was resumed once casing was installed.
- Hard and very hard boulders and cobbles were encountered at various elevations during the subsurface investigation.
- Rock core samples from the 2010 and 2011 subsurface investigations are available for viewing by the bidders at the California Department of Transportation, 5900 Folsom Blvd., Sacramento, Ca.
- During the 2010 and 2011 subsurface investigations, rock samples were collected from several borings and submitted to the laboratory for strength testing. Laboratory rock strength test data is available for viewing at the California Department of Transportation, 5900 Folsom Blvd., Sacramento, Ca.
- UC= Unconfined Compression Strength Test result performed by the Caltrans Laboratory. UC** for which the test specimen length/diameter ratio was not in compliance with the ASTM D 7012 test method. These test results are shown for information purposes only.

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO. POST MILE 24.11	NORTH RETAINING WALL LOG OF TEST BORINGS 1 OF 7
FUNCTIONAL SUPERVISOR NAME: R. Buehl	DRAWN BY: I.G-Remmen CHECKED BY: J. Kaump	FIELD INVESTIGATION BY: J. A. Martin		UNIT: 3643 PROJECT NUMBER & PHASE: 01000003711	CONTRACT NO.: 01-479404	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 01-31-12 08-08-12 08-28-12 SHEET 6 OF 12

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
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USERNAME => s117606 DATE PLOTTED => 22-JUN-2013 TIME PLOTTED => 07:18

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	179	184

Jacqueline A. Martin 9-6-12
 PROFESSIONAL GEOLOGIST DATE
 6-24-13
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PROFESSIONAL GEOLOGIST
 Jacqueline A. Martin
 No. 8705
 Exp. 10-31-12
 STATE OF CALIFORNIA

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

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition). See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.



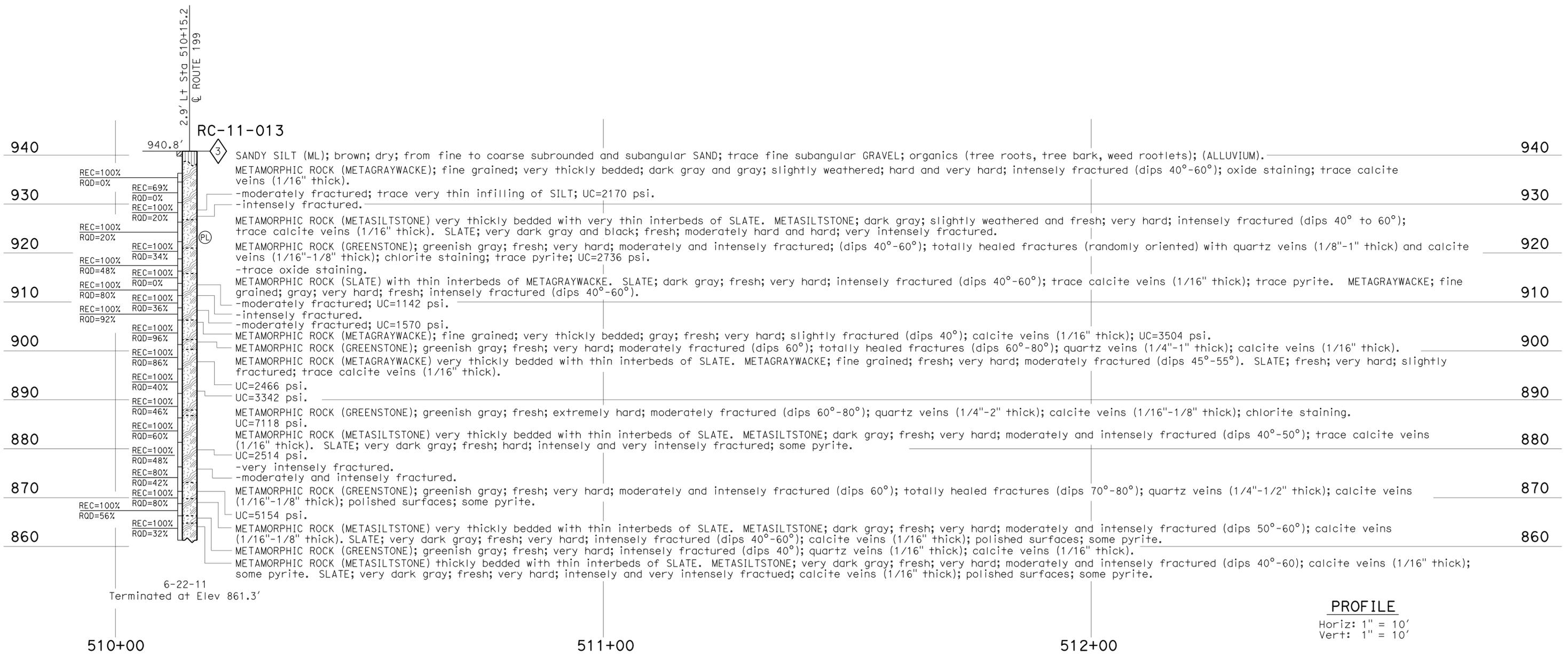
ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		NORTH RETAINING WALL	
FUNCTIONAL SUPERVISOR		DRAWN BY: I.G-Remmen		DEPARTMENT OF TRANSPORTATION		STRUCTURE DESIGN		POST MILE		LOG OF TEST BORINGS 2 OF 7	
NAME: R. Bueil		CHECKED BY: J. Kaump		FIELD INVESTIGATION BY: J. A. Martin		DESIGN BRANCH 1		24.11			
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		UNIT: 3643		PROJECT NUMBER & PHASE: 01000003711		CONTRACT NO.: 01-479404	
						DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET OF	
								01-31-12 08-06-12 08-28-12		7 12	

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	180	184
<i>Jacqueline A. Martin</i> PROFESSIONAL GEOLOGIST			9-6-12 DATE		
6-24-13 PLANS APPROVAL DATE			<i>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.</i>		

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

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PROFILE
 Horiz: 1" = 10'
 Vert: 1" = 10'

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1		BRIDGE NO.	NORTH RETAINING WALL	
FUNCTIONAL SUPERVISOR NAME: R. Buehl		DRAWN BY: I.G-Remmen CHECKED BY: J. Kaump		FIELD INVESTIGATION BY: J. A. Martin		PROJECT NUMBER & PHASE: 01000003711		POST MILE 24.11	LOG OF TEST BORINGS 3 OF 7	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS								UNIT: 3643	CONTRACT NO.: 01-479404	
065 CIVIL LOG OF TEST BORINGS SHEET								DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES
								01-31-12	08-06-12	08-28-12
								SHEET	OF	
								8	12	

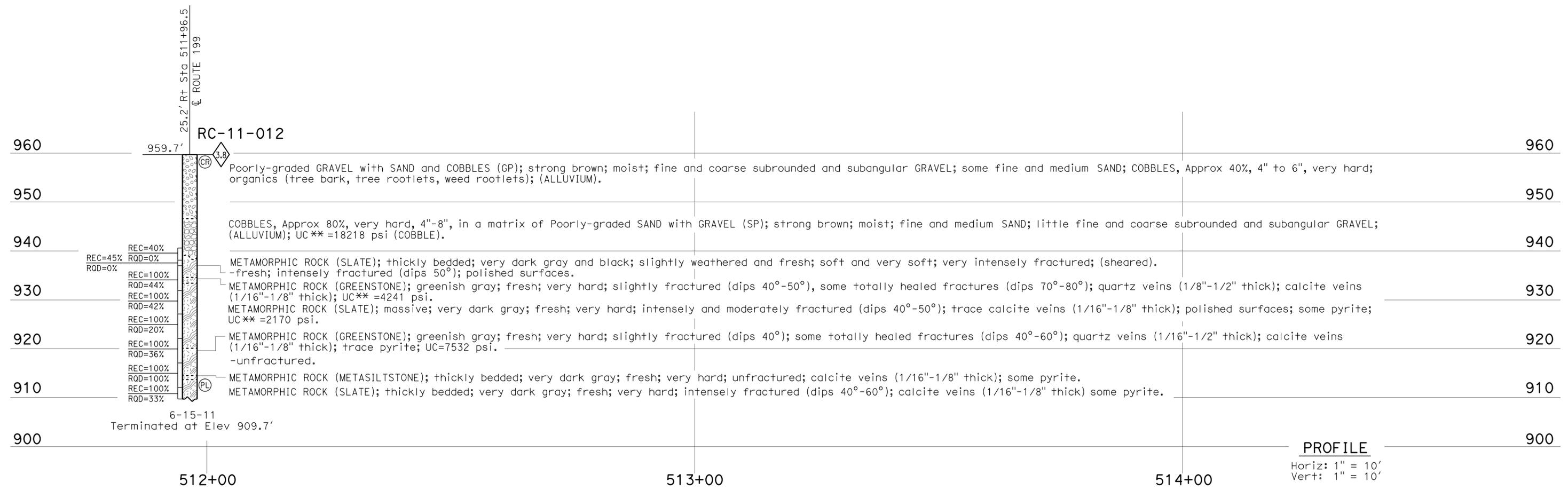
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	199	20.3/25.9	184	184

Jacqueline A. Martin 9-6-12
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FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 7"



ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		NORTH RETAINING WALL	
FUNCTIONAL SUPERVISOR		DRAWN BY: I.G-Remmen		FIELD INVESTIGATION BY:		STRUCTURE DESIGN		POST MILE		LOG OF TEST BORINGS 7 OF 7	
NAME: R. Buehl		CHECKED BY:		J. A. Martin		DESIGN BRANCH 1		24.11			
065 CIVIL LOG OF TEST BORINGS SHEET				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3643		SHEET OF	
				0 1 2 3				PROJECT NUMBER & PHASE: 01000003711		CONTRACT NO.: 01-479404	
								DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	
										01-31-12 01-31-12 08-28-12	
										12 12	

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