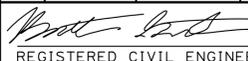
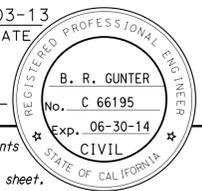
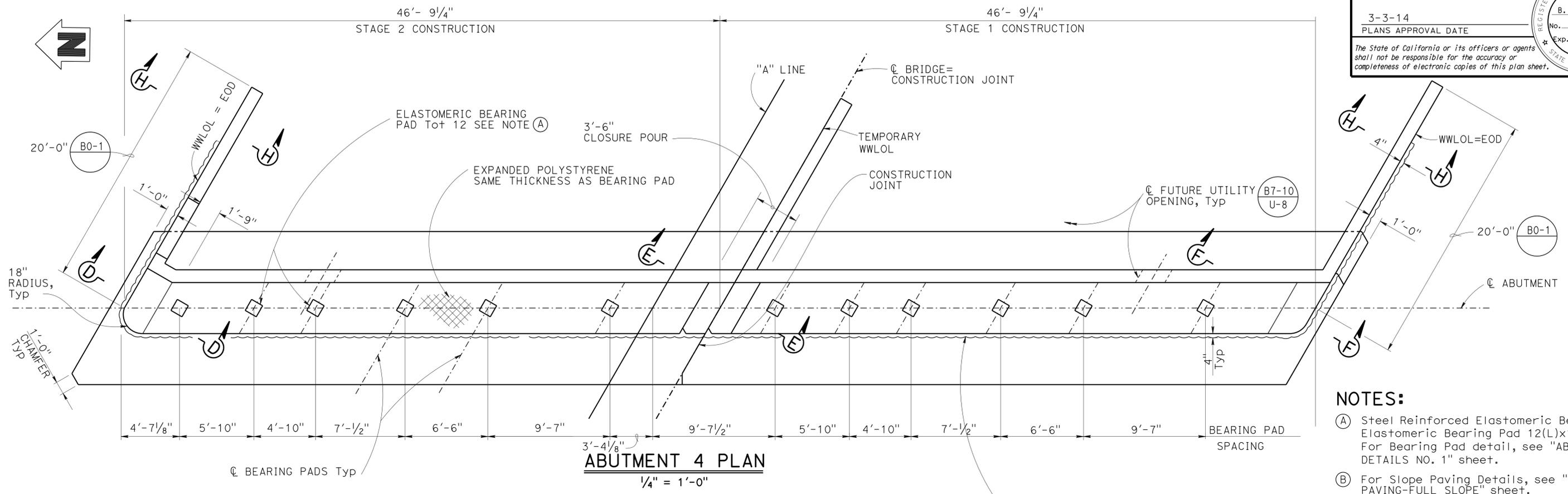
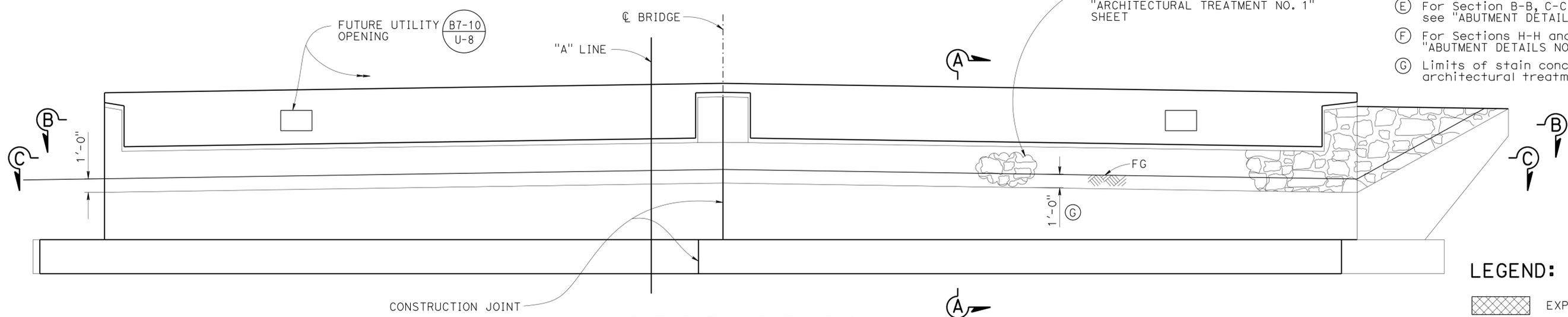


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1101	1168
 REGISTERED CIVIL ENGINEER DATE 10-03-13					
3-3-14 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



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

- NOTES:**
- (A) Steel Reinforced Elastomeric Bearing Pad 12(L)x10(W)x3(H). For Bearing Pad detail, see "ABUTMENT DETAILS NO. 1" sheet.
 - (B) For Slope Paving Details, see "SLOPE PAVING-FULL SLOPE" sheet.
 - (C) For Structure Approach Slab details, see "STRUCTURE APPROACH TYPE N(30)" sheet.
 - (D) For Sections A-A, see "ABUTMENT DETAILS NO. 1" sheet.
 - (E) For Section B-B, C-C, D-D, E-E and F-F see "ABUTMENT DETAILS NO. 2" sheet.
 - (F) For Sections H-H and I-I, see "ABUTMENT DETAILS NO. 3" sheet.
 - (G) Limits of stain concrete and architectural treatment.



ABUTMENT 4 ELEVATION
1/4" = 1'-0"

LEGEND:

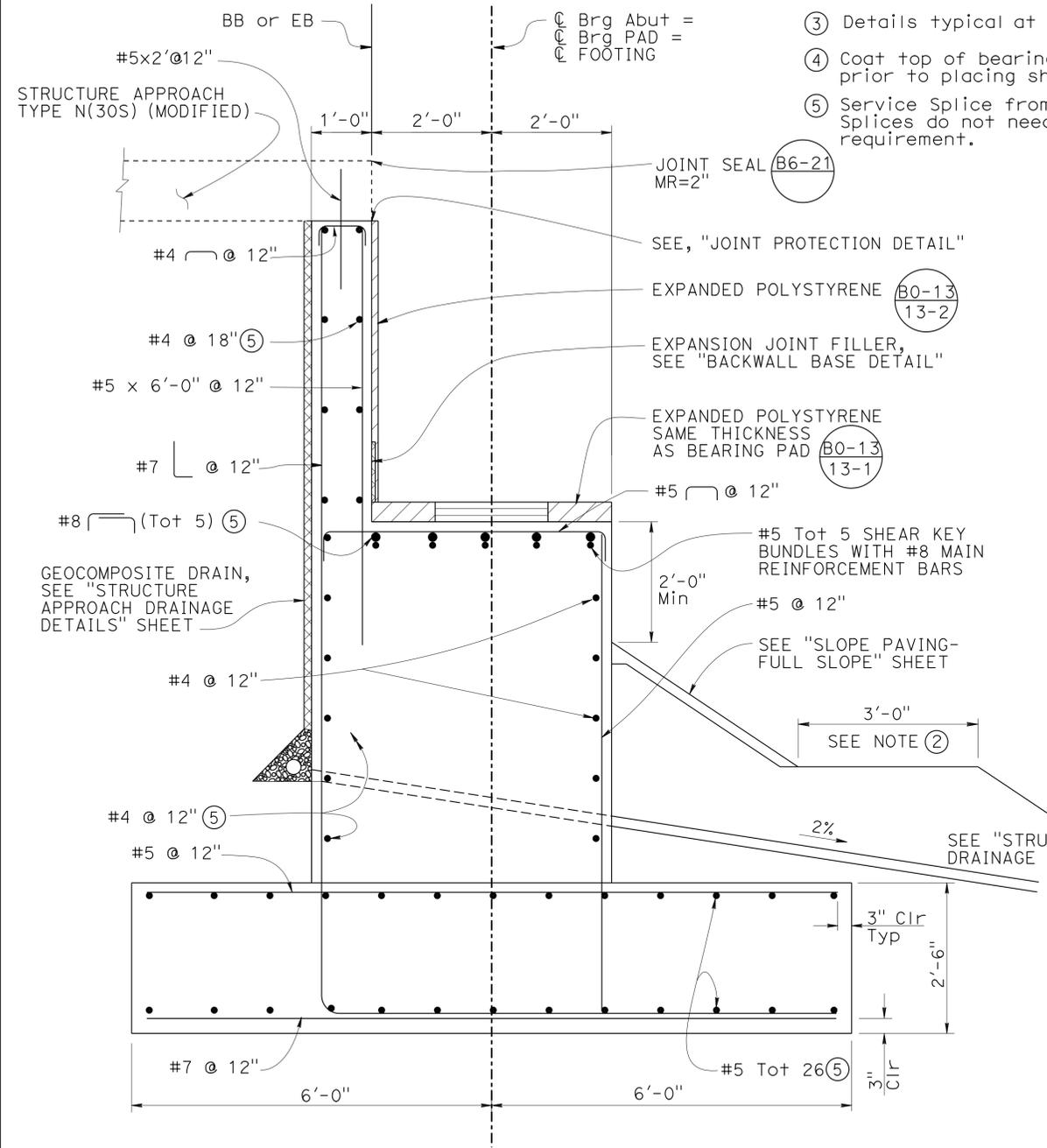
	EXPANDED POLYSTYRENE
	STAIN CONCRETE AND ARCHITECTURAL TREATMENT

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">DESIGN</td> <td style="width: 15%;">BY D. Balbas</td> <td style="width: 15%;">CHECKED J. Fang</td> </tr> <tr> <td>DETAILS</td> <td>BY H. Mahboobi / H. I.</td> <td>CHECKED J. Fang</td> </tr> <tr> <td>QUANTITIES</td> <td>BY D. Balbas / E. Mercado / B. Gunter</td> <td>CHECKED V. Alfamirano / R. Wang / C. Lomicka</td> </tr> </table>	DESIGN	BY D. Balbas	CHECKED J. Fang	DETAILS	BY H. Mahboobi / H. I.	CHECKED J. Fang	QUANTITIES	BY D. Balbas / E. Mercado / B. Gunter	CHECKED V. Alfamirano / R. Wang / C. Lomicka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO. 54-1286 POST MILE 3.6	SHEEP CREEK BRIDGE (REPLACE) ABUTMENT 4 LAYOUT
DESIGN	BY D. Balbas	CHECKED J. Fang											
DETAILS	BY H. Mahboobi / H. I.	CHECKED J. Fang											
QUANTITIES	BY D. Balbas / E. Mercado / B. Gunter	CHECKED V. Alfamirano / R. Wang / C. Lomicka											
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3621 PROJECT NUMBER & PHASE: 0800000609 - 1 CONTRACT NO.: 08-3401U1									
				DISREGARD PRINTS BEARING EARLIER REVISION DATES									
				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">REVISION DATES</td> <td style="width: 20%;">SHEET</td> <td style="width: 20%;">OF</td> </tr> <tr> <td>04-04-13</td> <td>7</td> <td>26</td> </tr> </table>	REVISION DATES	SHEET	OF	04-04-13	7	26			
REVISION DATES	SHEET	OF											
04-04-13	7	26											

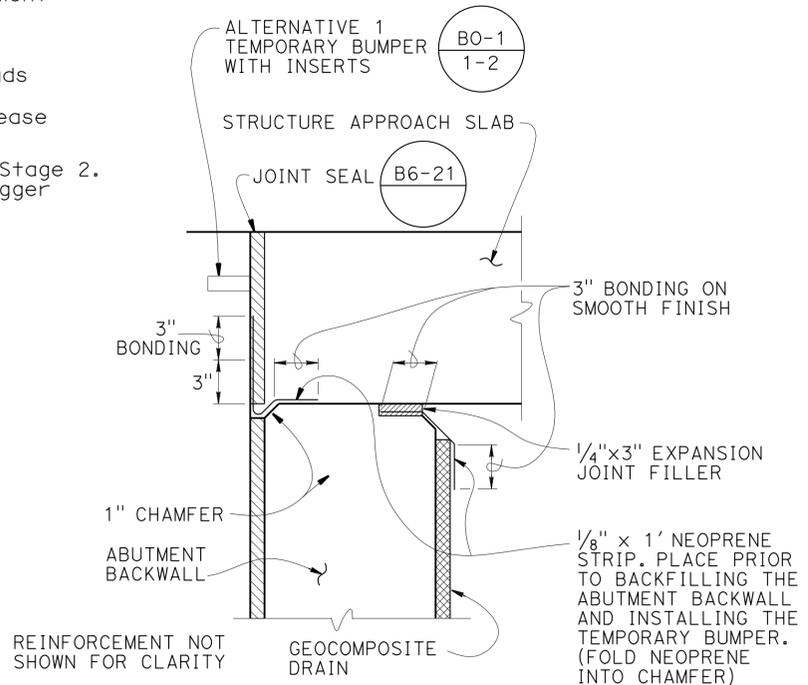
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1102	1168

9-5-2013
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE
 B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA
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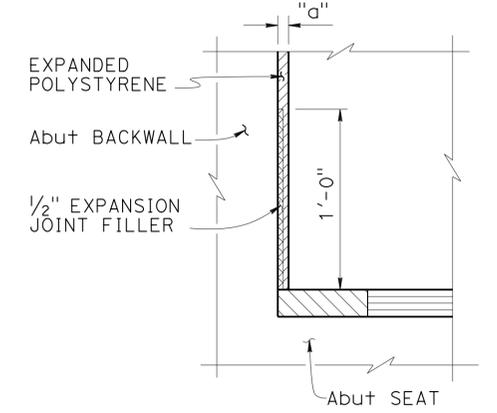
- NOTES:**
- All abutment transverse reinforcement shall be placed normal to C abutment
 - Abutment 1 only
 - Details typical at all bearing pads
 - Coat top of bearing pad with grease prior to placing sheet metal.
 - Service Splice from Stage 1 to Stage 2. Splices do not need to meet stagger requirement.



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

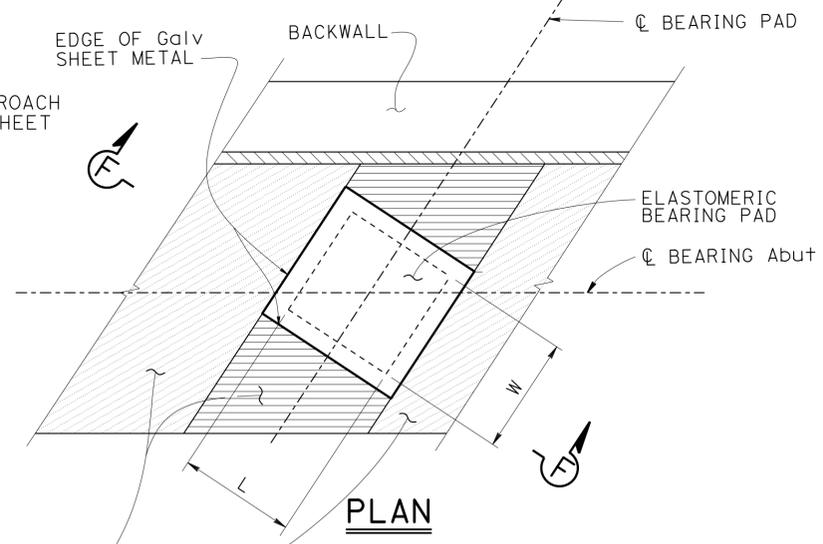


JOINT PROTECTION DETAIL
 NO SCALE

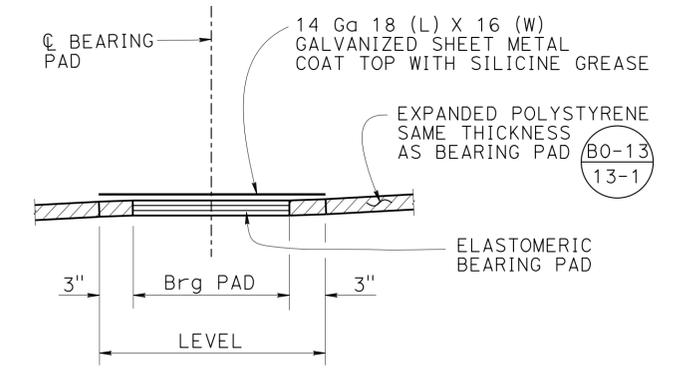


BACKWALL BASE DETAIL
 NO SCALE

FOR "a" DIMENSION, SEE JOINT SEAL (B6-21) (MAXIMUM MOVEMENT RATING = 2'')



BEARING PAD DETAIL
 NO SCALE



SECTION F-F

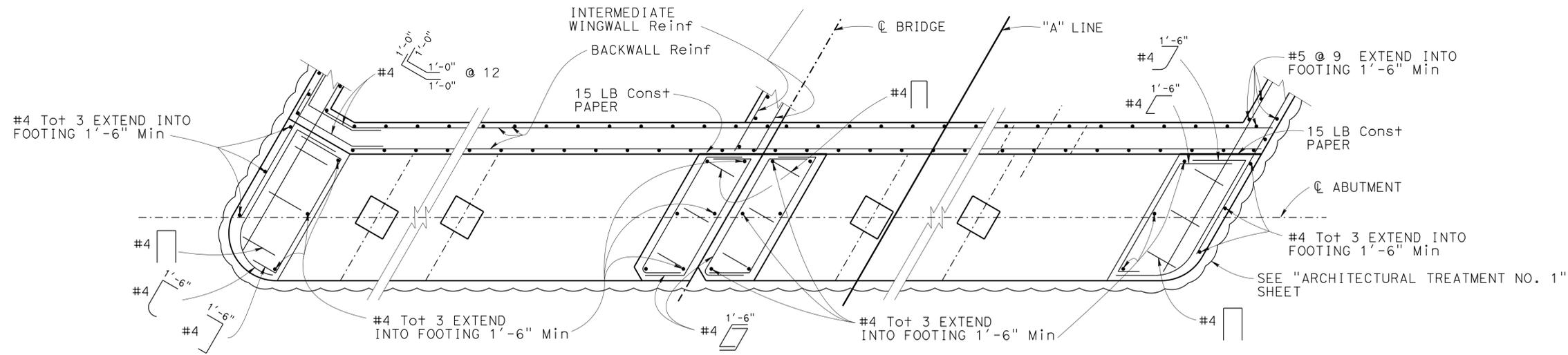
EXPANDED POLYSTYRENE SAME THICKNESS AS BEARING PAD

DESIGN	BY D. Balbas	CHECKED J. Fang	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	SHEEP CREEK BRIDGE (REPLACE) ABUTMENT DETAILS NO. 1			
DETAILS	BY H. Mahboobi / H. I.	CHECKED J. Fang			54-1286				
QUANTITIES	BY D. Balbas / E. Mercado / B. Gunter	CHECKED V. Altamirano / R. Wang / C. Lomicka			POST MILE 3.6				
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3621	PROJECT NUMBER & PHASE: 0800000609 - 1	CONTRACT NO.: 08-3401U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 8 OF 26

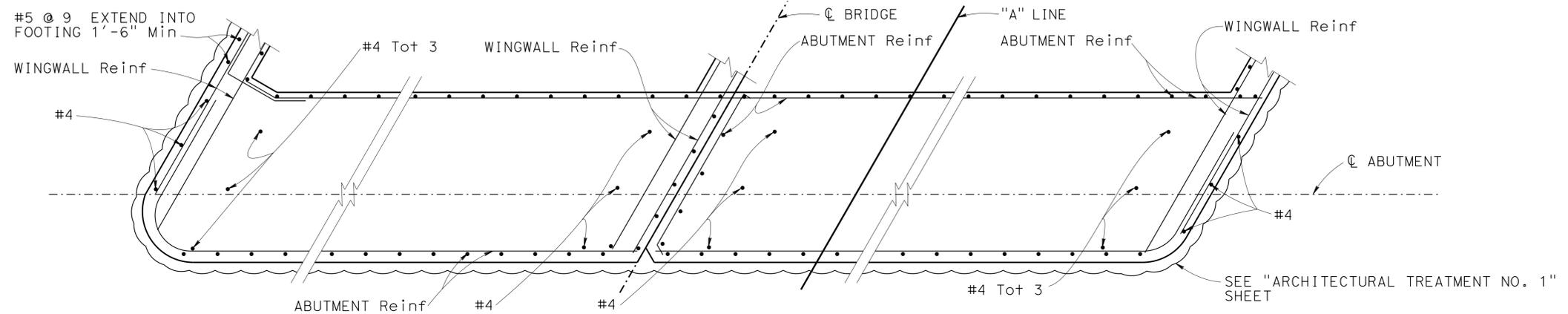
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1103	1168

8-27-2013
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE
 B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA

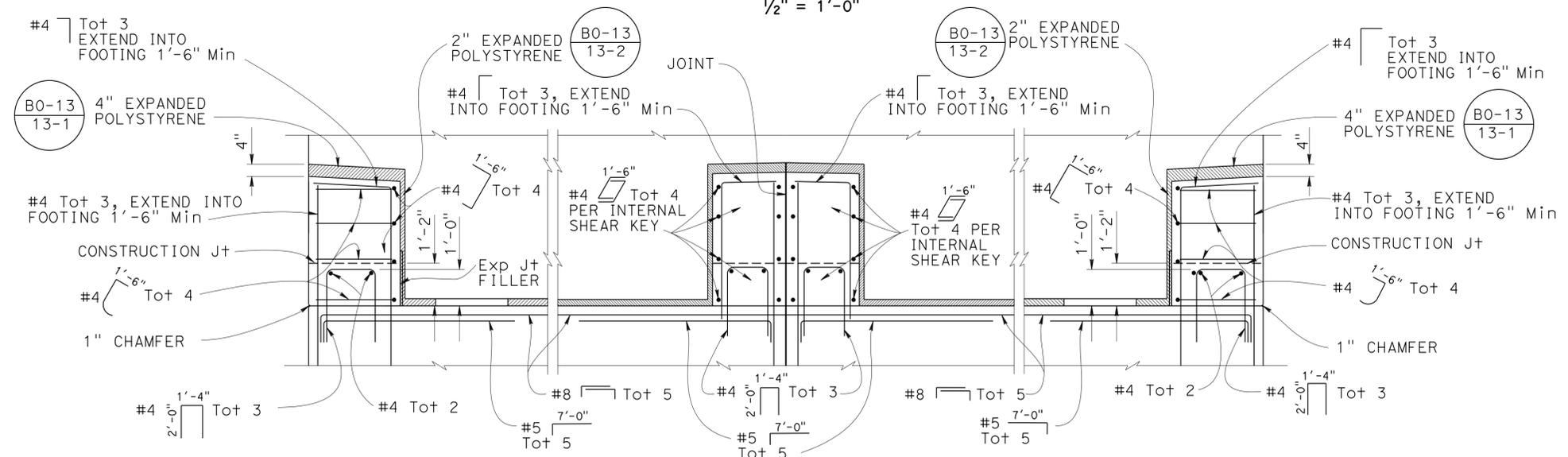
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SECTION B-B
1/2" = 1'-0"



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



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

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

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

- NOTES:**
- (A) Barrier not shown for clarity.
 - (B) Abutment 4 shown, Abutment 1 similar.
 - (C) Not all Abutment Reinf shown for clarity.
 - (D) For location of Section B-B, C-C, D-D, E-E, and F-F see "ABUTMENT 1 LAYOUT" or "ABUTMENT 4 LAYOUT" sheets.

DESIGN	BY D. Balbas	CHECKED J. Fang
DETAILS	BY H. Mahboobi / H. I.	CHECKED J. Fang
QUANTITIES	BY D. Balbas/B. Gunter	CHECKED V. Altamirano/R. Wang

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

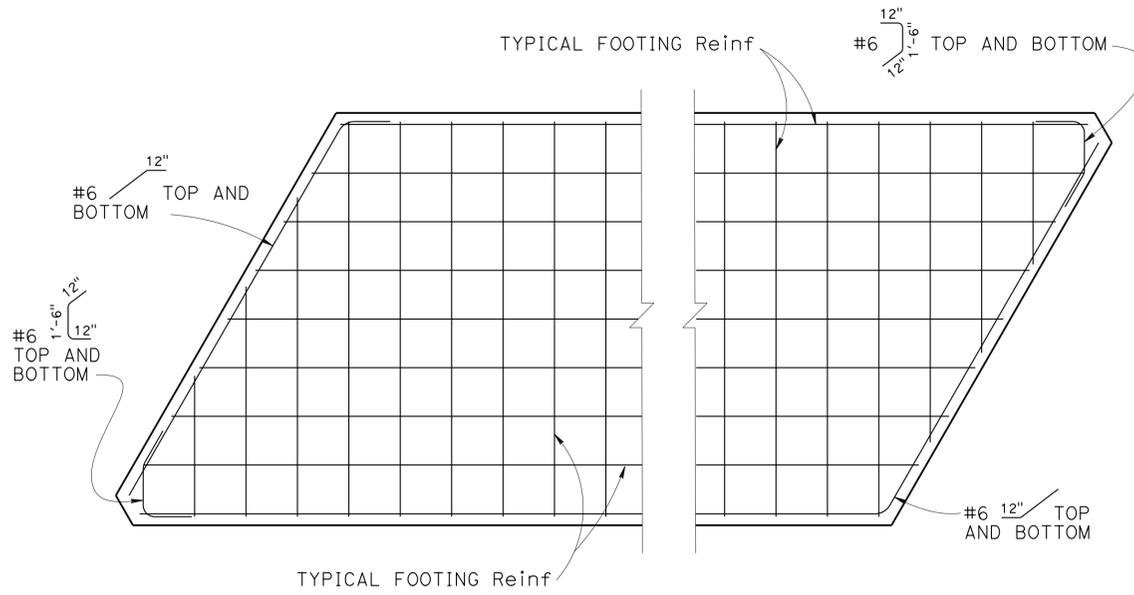
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 19

BRIDGE NO.	54-1286
POST MILE	3.6

SHEEP CREEK BRIDGE (REPLACE)
ABUTMENT DETAILS NO. 2

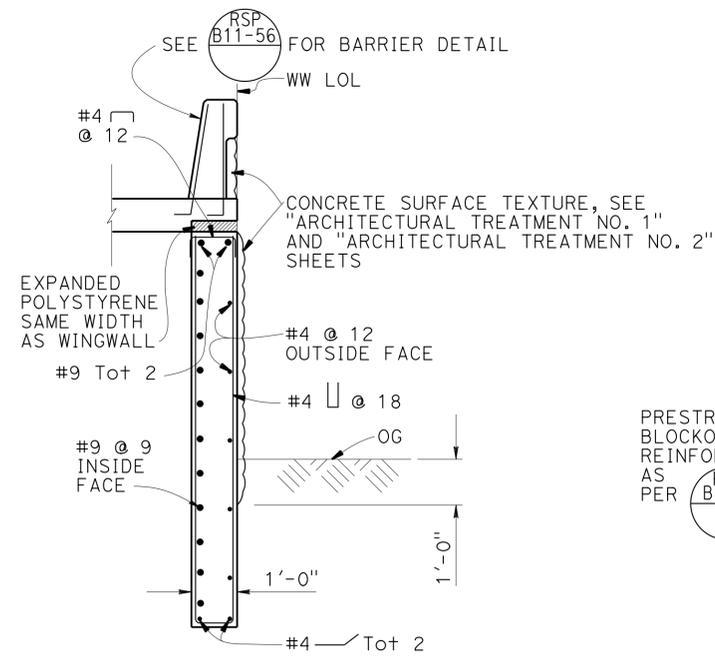
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1104	1168

10-03-13
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE
 B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
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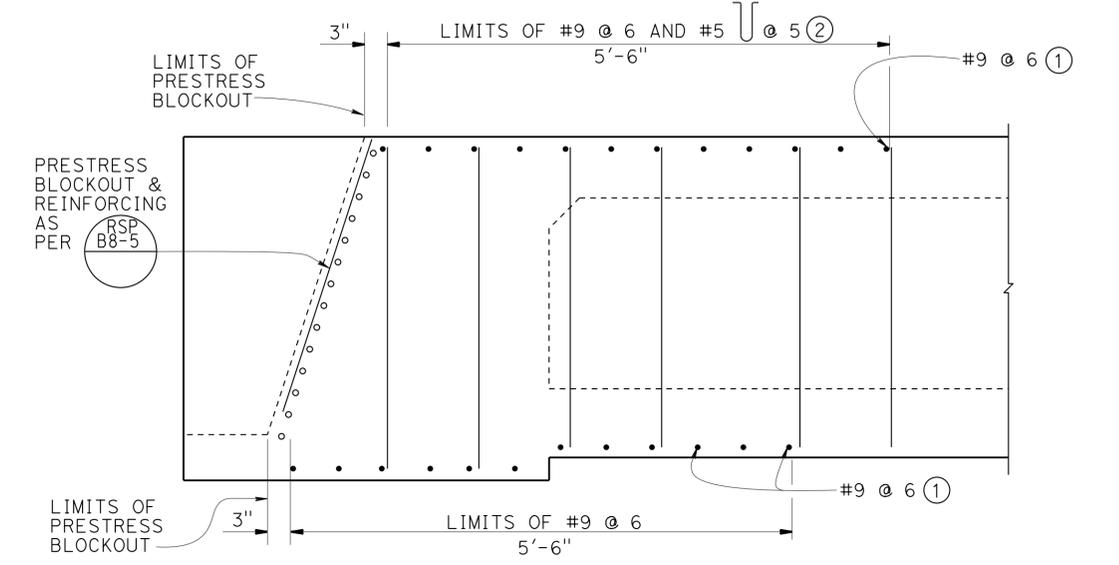
ABUTMENT 1 FOOTING CORNER DETAILS

3/8" = 1'-0"
 NOTE: Abutment 4 similar but opposite hand



SECTION H-H

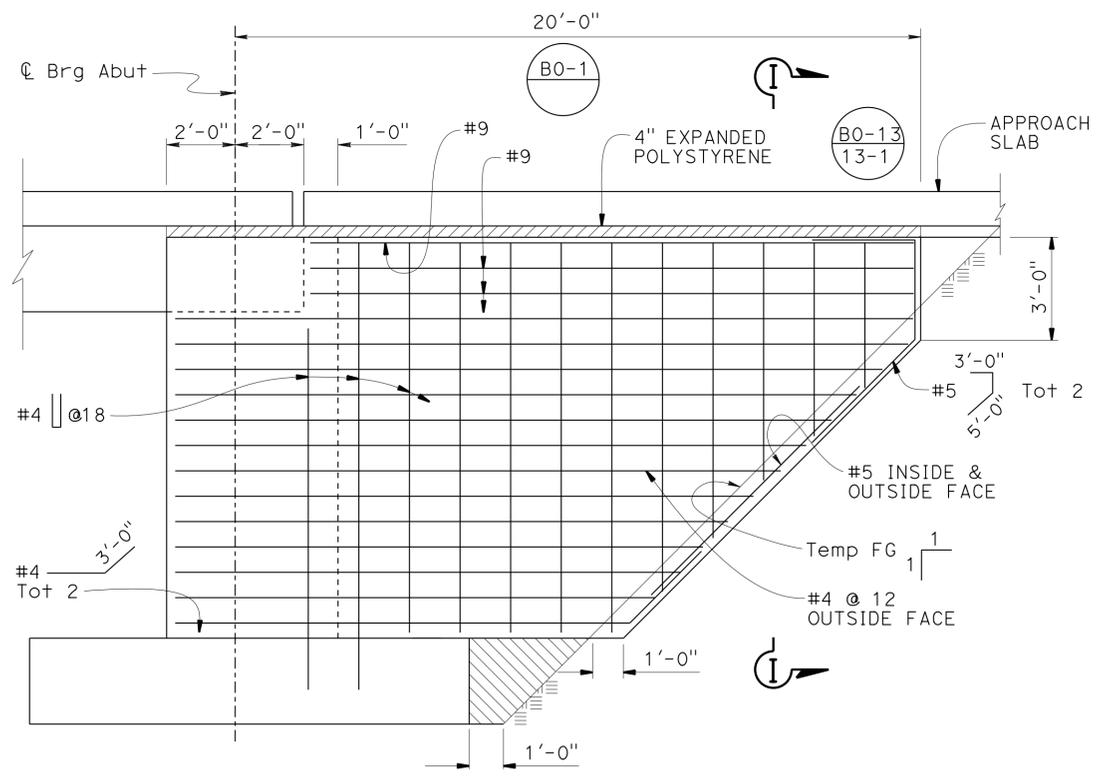
1/2" = 1'-0"



NOTE: ALL REINFORCEMENT TO BE PLACED PARALLEL TO C OF SUPPORT OR PARALLEL TO C OF GIRDER. DETAIL TYPICAL AT ALL ABUTMENTS

ADDITIONAL DIAPHRAGM REINFORCEMENT DETAIL AT GIRDER

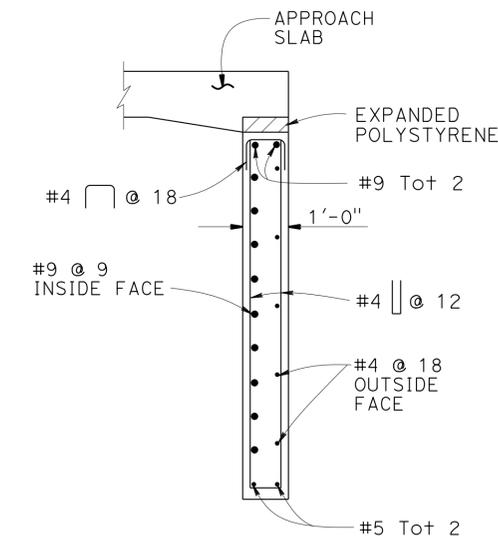
1" = 1'-0"



INTERMEDIATE WINGWALL

3/8" = 1'-0" B0-1 EXCEPT AS SHOWN

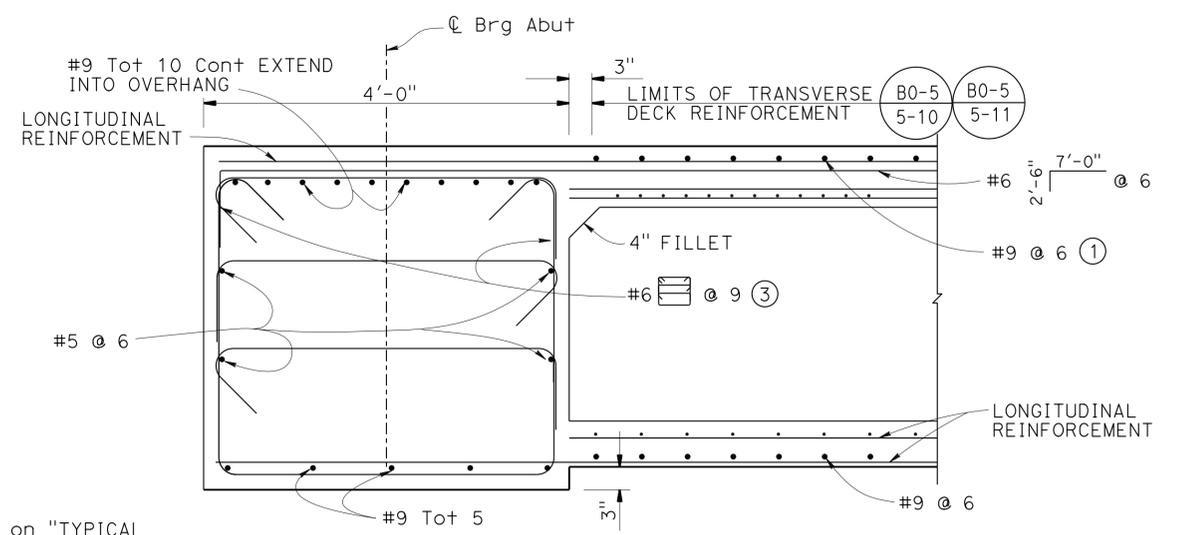
- LEGEND:**
- Indicates fill behind Abutment
 - Indicates Expanded Polystyrene



SECTION I-I

1/2" = 1'-0"

- NOTES:**
- Bars shown in addition to bars on "TYPICAL SECTION" and "GIRDER LAYOUT" sheet.
 - To be bundled with bars shown on "GIRDER LAYOUT" sheet
 - Bars to be placed perpendicular to C and spaced along C of Abutment



ABUTMENT END DIAPHRAGM

1" = 1'-0"

NOTE: ABUTMENT 1 SHOWN, ABUTMENT 4 SIMILAR

DESIGN	BY D. Balbas	CHECKED J. Fang
DETAILS	BY H. Mahboobi / H. I.	CHECKED J. Fang
QUANTITIES	BY D. Balbas/B. Gunter	CHECKED V. Altamirano/R. Wang

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 19

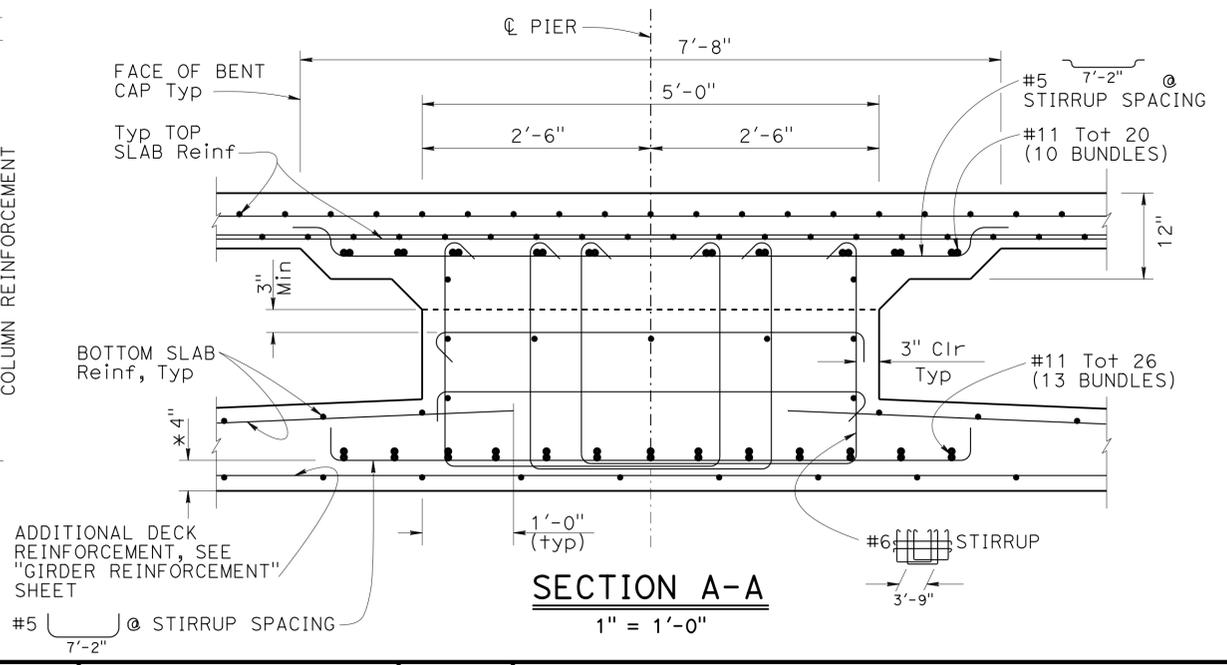
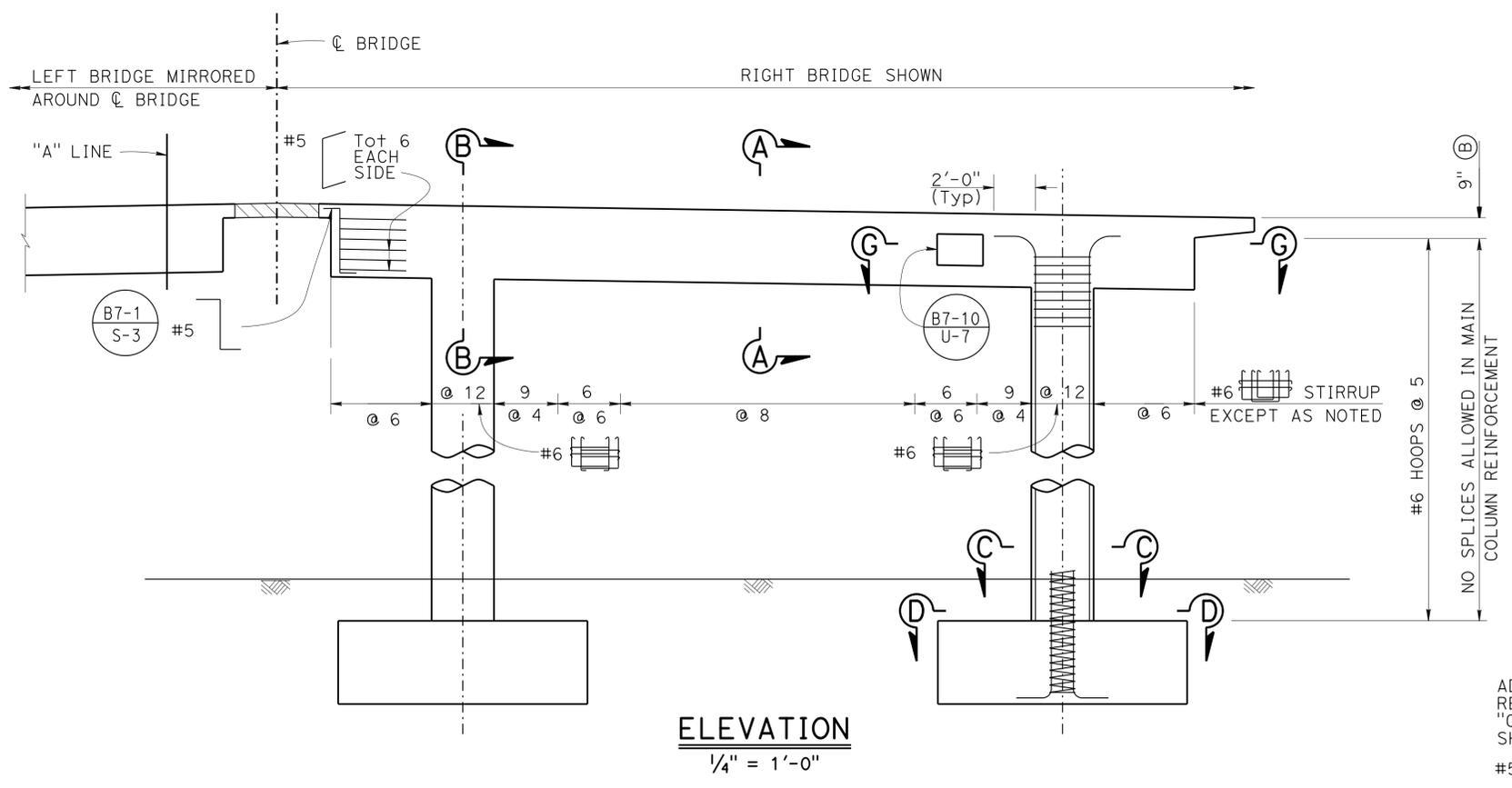
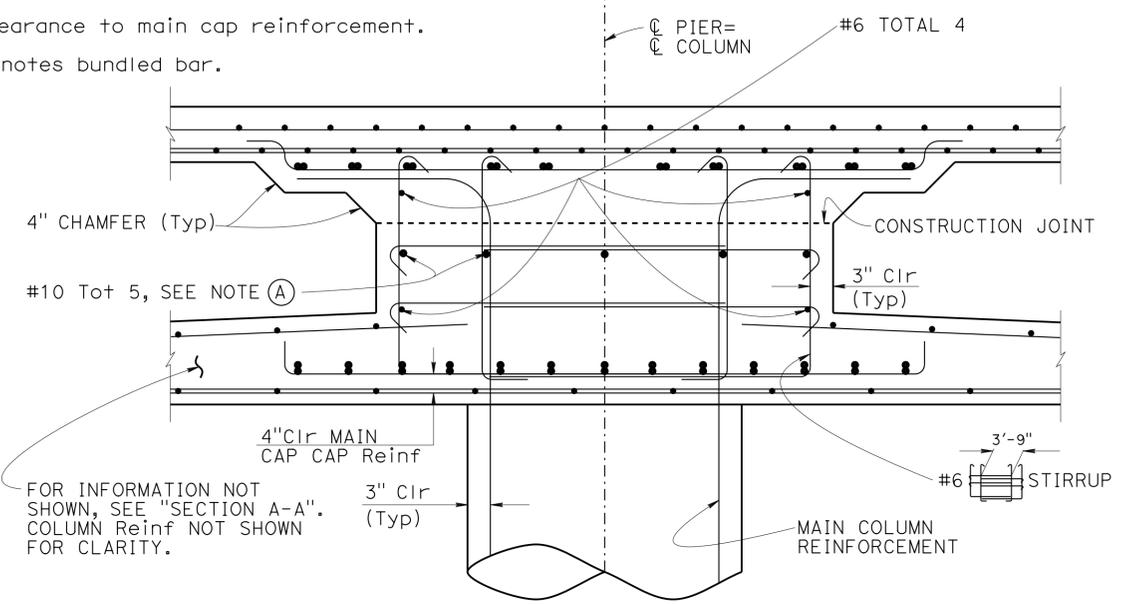
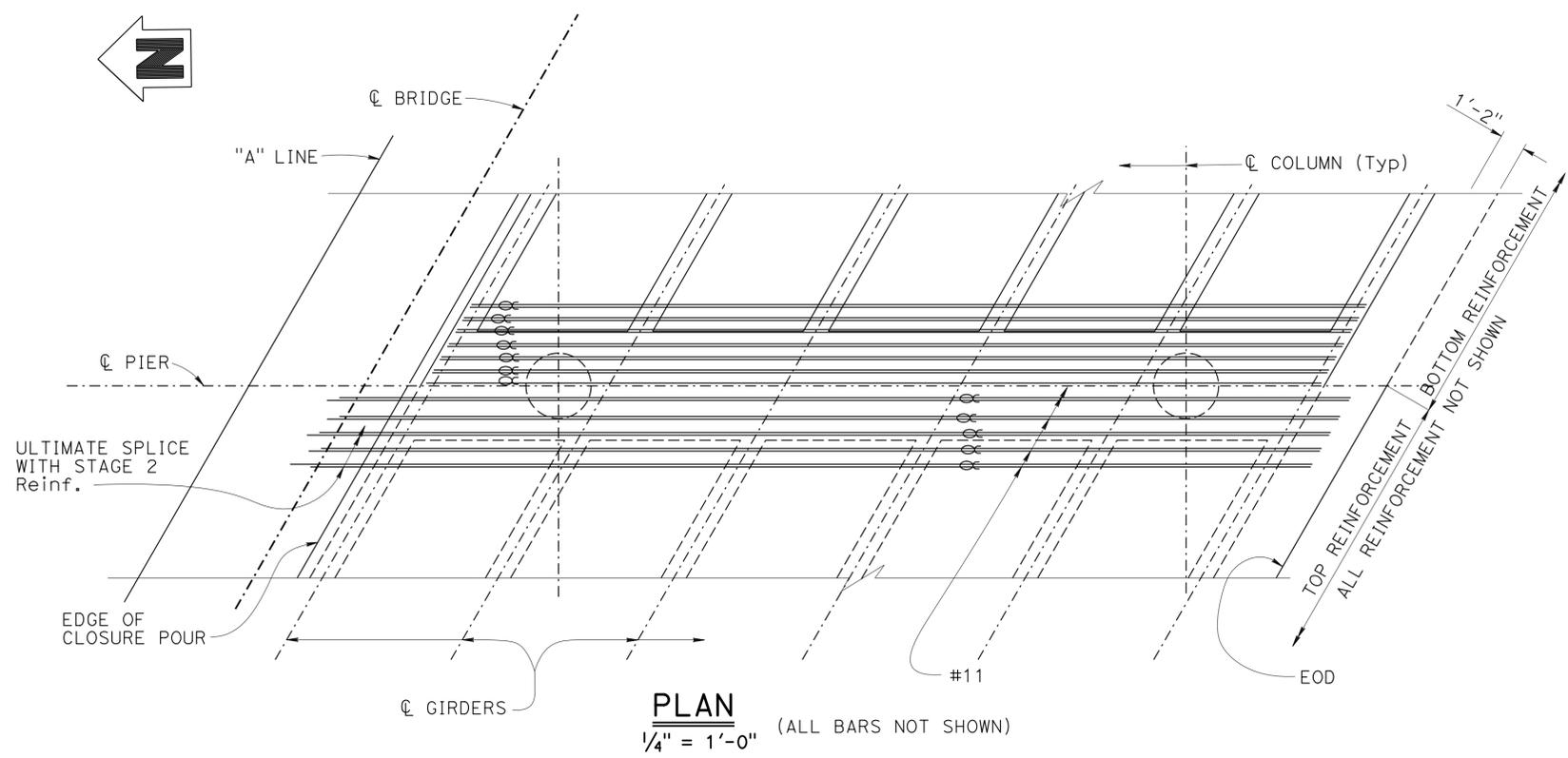
BRIDGE NO.	54-1286
POST MILE	3.6

SHEEP CREEK BRIDGE (REPLACE)
ABUTMENT DETAILS NO. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	2,138	6.2/6.4, 2.3/R15.2	1105	1168
				8-27-2013 REGISTERED CIVIL ENGINEER DATE 3-3-14 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.	

NOTES:

- (A) Reinforcement may be adjusted to clear P/S ducts.
 - (B) Hoop reinforcement shall begin as high as possible while clearing prestress duct. Main column reinforcement shall not be trimmed.
 - (C) Stirrups shown shall be placed normal to ϕ bent.
 - (D) For sections C-C, D-D and G-G see "PIER DETAILS" sheet.
 - (E) All Hoops are "ULTIMATE" butt spliced continuous.
 - (F) No lap splices in main bent cap reinforcement Except as shown.
 - (G) Concrete barrier type 736 not shown for clarity.
- * Clearance to main cap reinforcement.
 ☉ Denotes bundled bar.



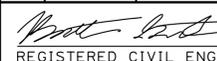
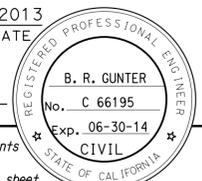
DESIGN	BY R. Wang	CHECKED J. Fang
DETAILS	BY H. Mahboobi/H. Iniguez	CHECKED J. Fang
QUANTITIES	BY D. Balbas/B. Gunter	CHECKED V. Altamirano/R. Wang

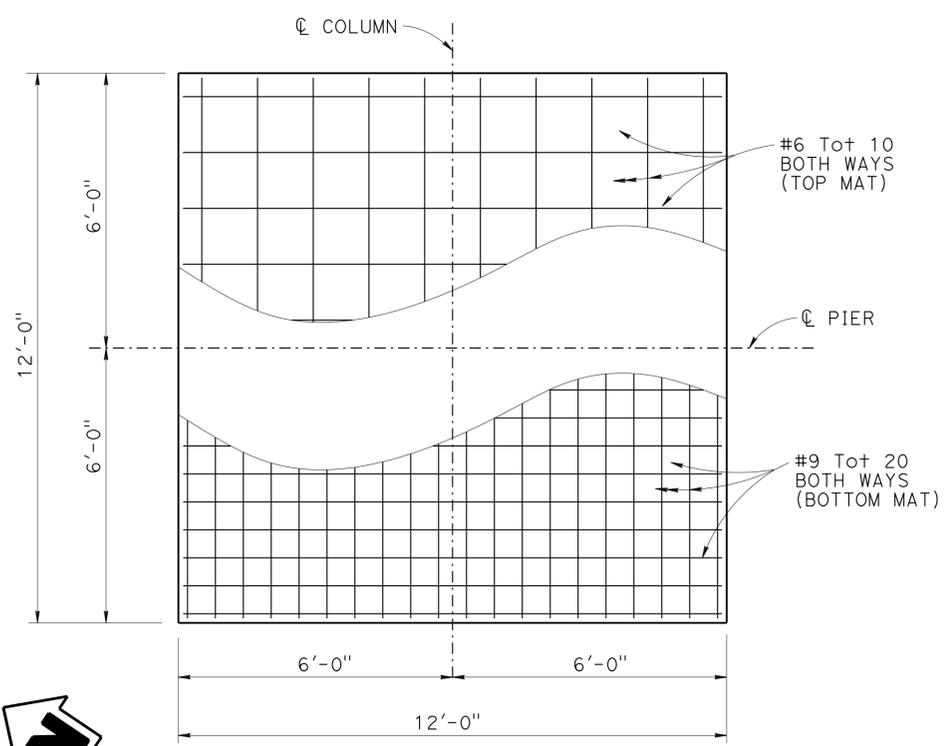
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 19

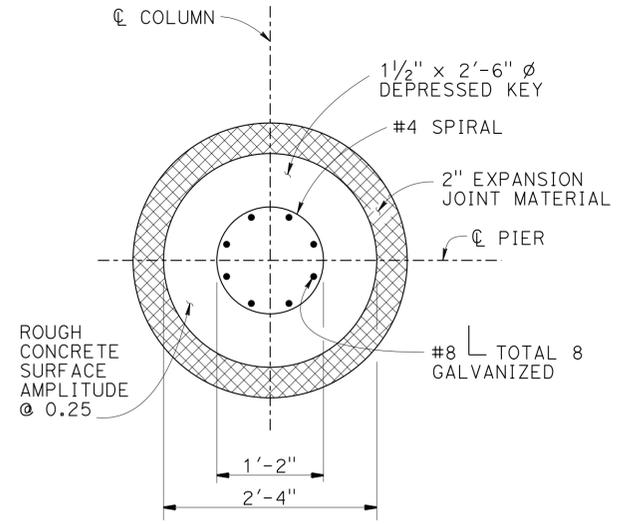
BRIDGE NO.
54-1286
 POST MILE
3.6

SHEEP CREEK BRIDGE (REPLACE)
PIER LAYOUT

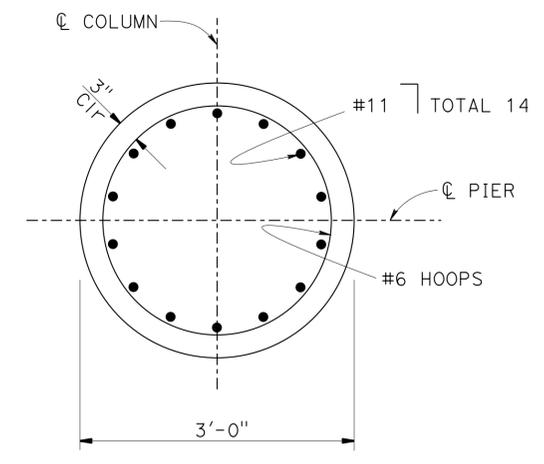
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1106	1168
 8-27-2013 REGISTERED CIVIL ENGINEER DATE					
3-3-14 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



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

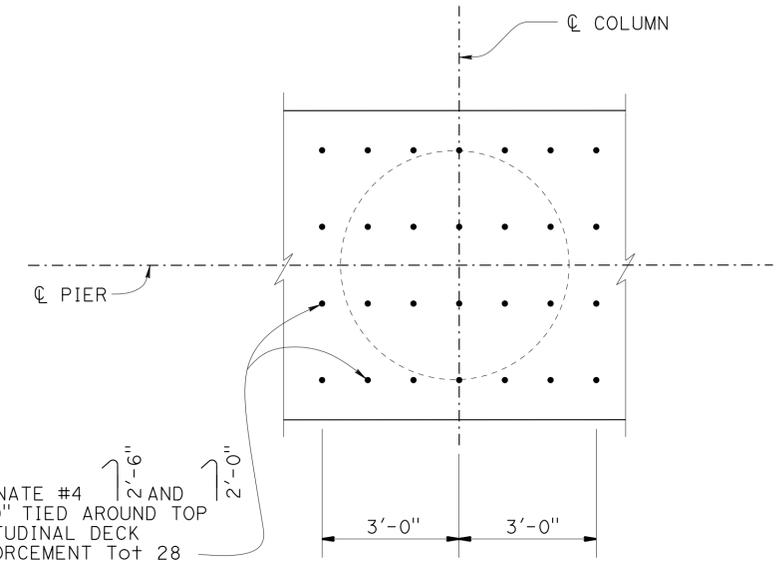


SECTION D-D
1" = 1'-0"

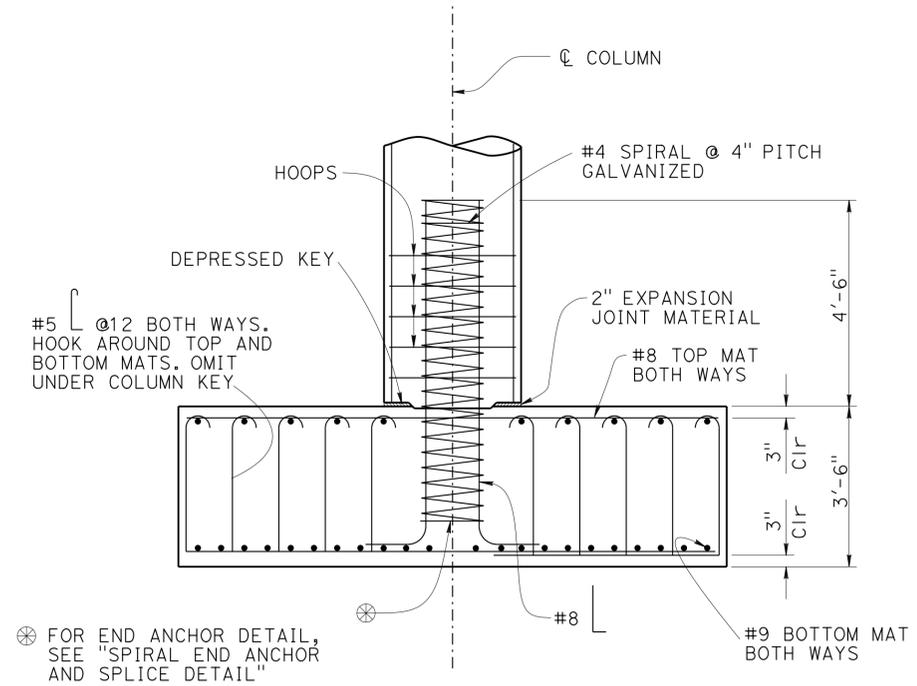


SECTION C-C
1" = 1'-0"

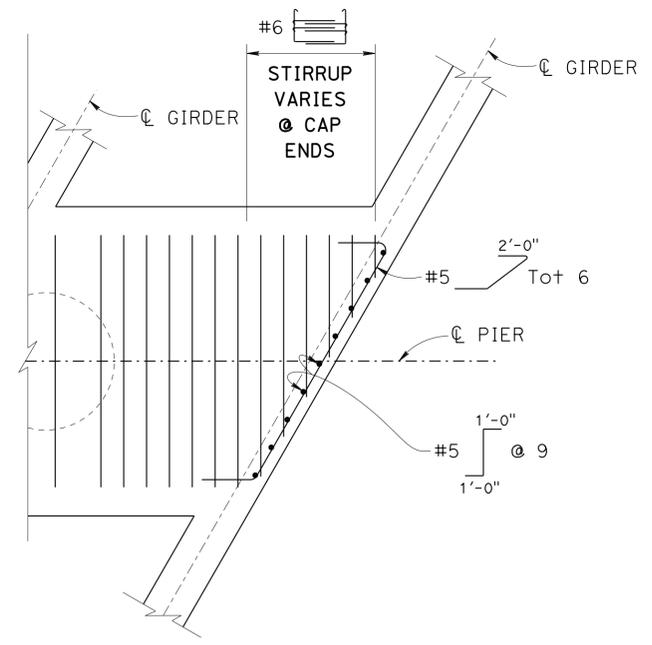
NOTE:
FOR LOCATION OF SECTION D-D AND C-C SEE "PIER LAYOUT" SHEET.



J-BAR DETAIL
1/2" = 1'-0"

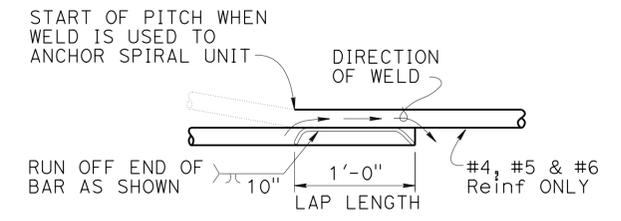


FOOTING ELEVATION
1/2" = 1'-0"

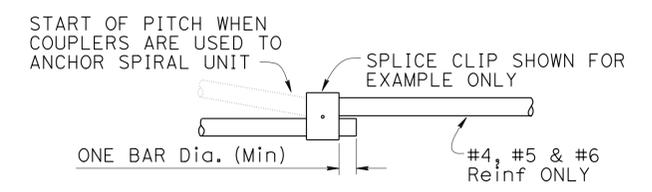


SECTION G-G
1/2" = 1'-0"

ALTERNATE #4 @ 1'-0" AND #11 TIED AROUND TOP LONGITUDINAL DECK REINFORCEMENT Tot 28



WELDED LAP SPLICE AND ANCHOR



MECHANICAL LAP SPLICE AND ANCHOR

SPIRAL END ANCHOR AND SPLICE DETAIL
NO SCALE

DESIGN	BY R. Wang	CHECKED J. Fang
DETAILS	BY H. Mahboobi / H. Iniguez	CHECKED J. Fang
QUANTITIES	BY D. Balbas/B. Gunter	CHECKED V. Altamirano/R. Wang

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 19

BRIDGE NO.	54-1286
POST MILE	3.6

SHEEP CREEK BRIDGE (REPLACE)
PIER DETAILS

NOTES:

- ① Indicates Girder Stem width in inches.
- ② L = Span length from $\text{\textcircled{C}}$ Abutment to $\text{\textcircled{C}}$ Bent measured along $\text{\textcircled{C}}$ girder.
- ③ \boxtimes Point of no movement.
- ④ $\text{\textcircled{O}}$ Soffit access opening $\text{\textcircled{B14-5}}$
- ⑤ If necessary place bottom longitudinal reinforcement around access opening.
- ⑥ \bullet Soffit vent $\text{\textcircled{B7-1}}$ $\text{\textcircled{V-1}}$
- ⑦ Transverse deck reinforcement $\text{\textcircled{B0-5}}$ $\text{\textcircled{5-10}}$ or $\text{\textcircled{B0-5}}$ $\text{\textcircled{5-11}}$
- ⑧ Transverse soffit reinforcement to be placed similar to transverse deck reinforcement.
- ⑨ For prestressing notes, see "GIRDER REINFORCEMENT" sheet.
- ⑩ Detail "A" and "DECK CORNER DETAILS" on "GIRDER LAYOUT STAGE 2" sheet.

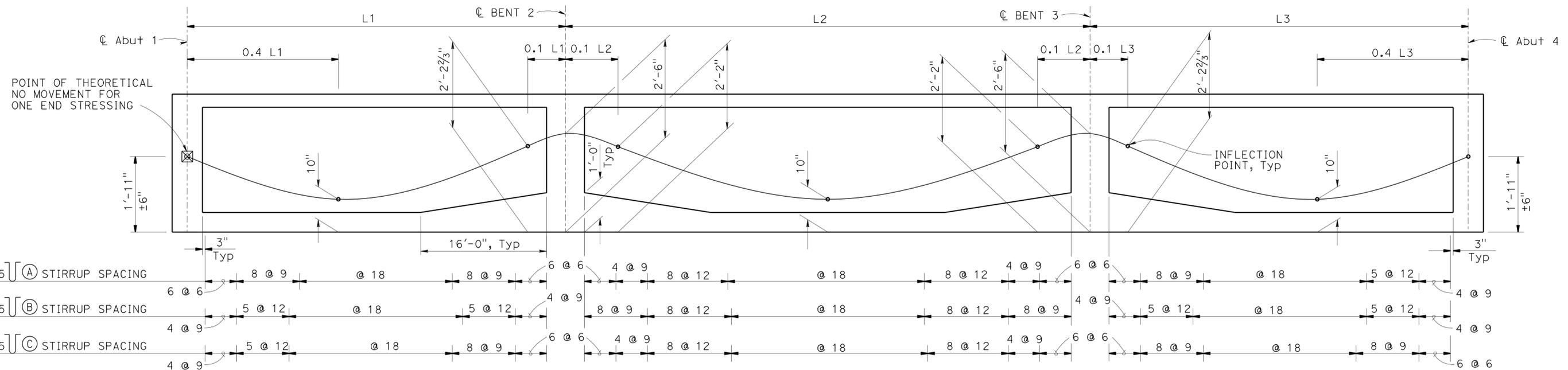
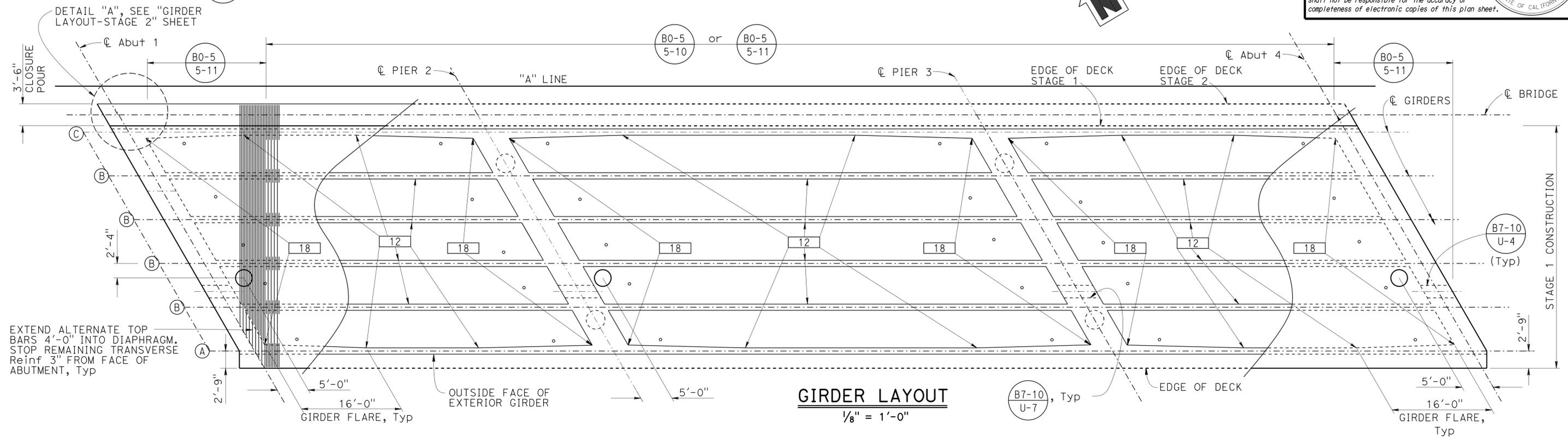
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1108	1168

10-03-13
REGISTERED CIVIL ENGINEER DATE

3-3-14
PLANS APPROVAL DATE

B. R. GUNTER
No. C 66195
Exp. 06-30-14
CIVIL
STATE OF CALIFORNIA

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DESIGN	BY D. Balbas	CHECKED J. Fang
DETAILS	BY H. B./H. Mahboobi/H. I.	CHECKED J. Fang
QUANTITIES	BY D. Balbas / B. Gunter	CHECKED V. Altamirano/R. Wang

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 19

BRIDGE NO. 54-1286
POST MILE 3.6

SHEEP CREEK BRIDGE (REPLACE)
GIRDER LAYOUT - STAGE 1

UNIT: 3621
PROJECT NUMBER & PHASE: 080000609 - 1 CONTRACT NO.: 08-3401U1

REVISION DATES: 03-06-13, 09-26-13, 03-18-14

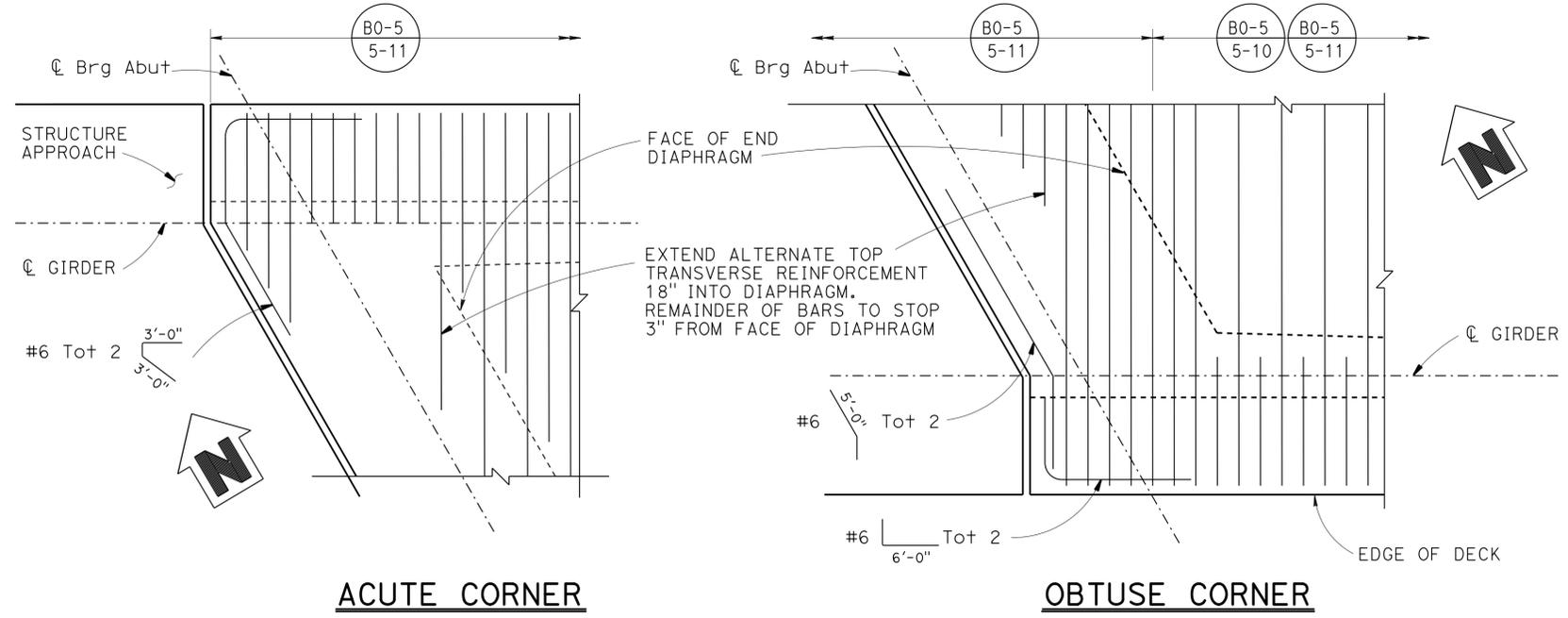
SHEET 14 OF 26

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1109	1168

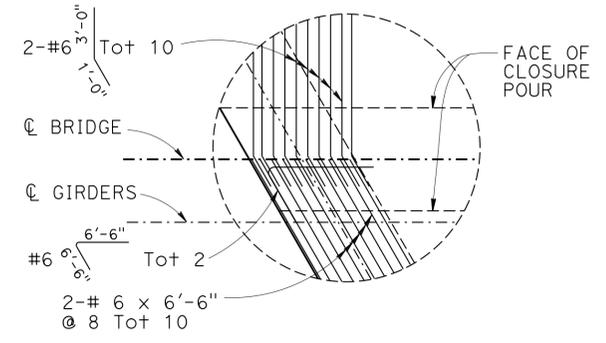
9-5-2013
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA

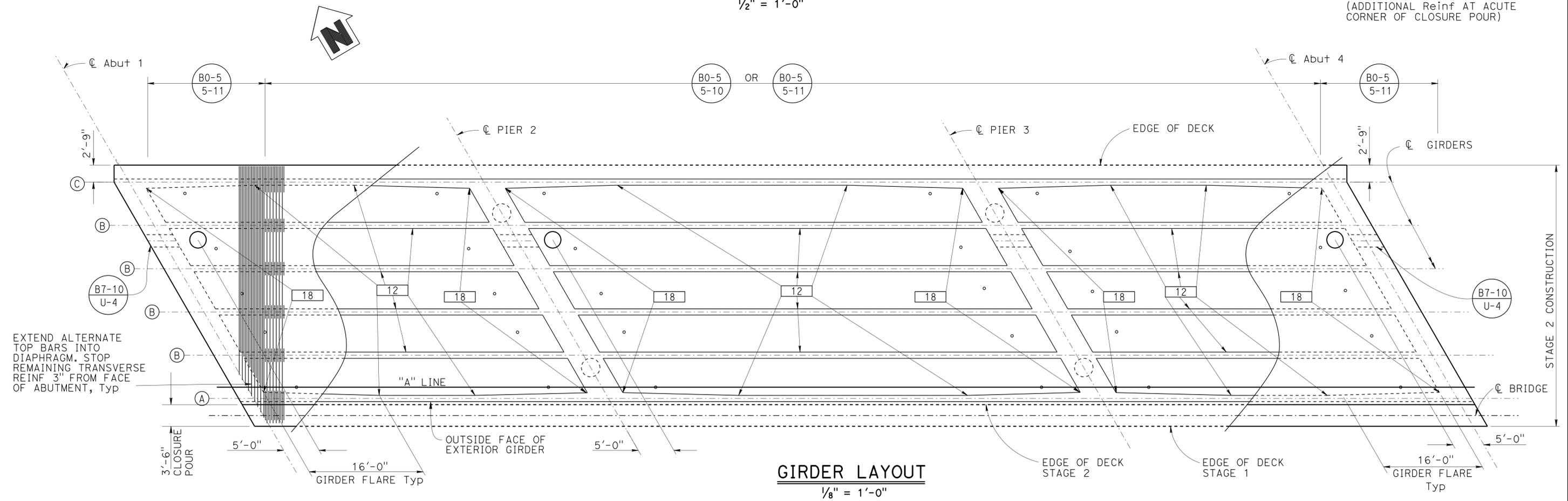
- NOTES:**
- ① Indicates Girder Stem width in inches.
 - ② L= Span length from C Abutment to C Bent measured along C girder.
 - ③ \boxtimes Point of no movement.
 - ④ \circ Soffit access opening. (B14-5)
 - ⑤ If necessary place bottom longitudinal reinforcement around access opening.
 - ⑥ \bullet Soffit vent (B7-1 V-1)
 - ⑦ Transverse deck reinforcement except as noted (B0-5 5-10) or (B0-5 5-11)
 - ⑧ Transverse soffit reinforcement to be placed similar to transverse deck reinforcement.
 - ⑨ For prestressing notes, see "GIRDER REINFORCEMENT" sheet.
 - ⑩ Girder Elevation shown on "GIRDER LAYOUT STAGE 1" sheet.



DECK CORNER DETAILS
 $\frac{1}{2}'' = 1'-0''$



DETAIL A
 NO SCALE
 (ADDITIONAL Reinf AT ACUTE CORNER OF CLOSURE POUR)



GIRDER LAYOUT
 $\frac{1}{8}'' = 1'-0''$

DESIGN	BY D. Balbas	CHECKED J. Fang
DETAILS	BY H.B. / H. Mahboobi/H. I.	CHECKED J. Fang
QUANTITIES	BY D. Balbas/B. Gunter	CHECKED V. Altamirano/R. Wang

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 19

BRIDGE NO.	54-1286
POST MILE	3.6

SHEEP CREEK BRIDGE (REPLACE)
GIRDER LAYOUT-STAGE 2

PRESTRESSING NOTES



270 KSI Low Relaxation Strand:

- P_{jack} (Stage 1) = 4130 kips
- P_{jack} (Stage 2) = 4130 kips
- Anchor Set = $\frac{3}{8}$ in
- Total Number of Girders = 6 / stage

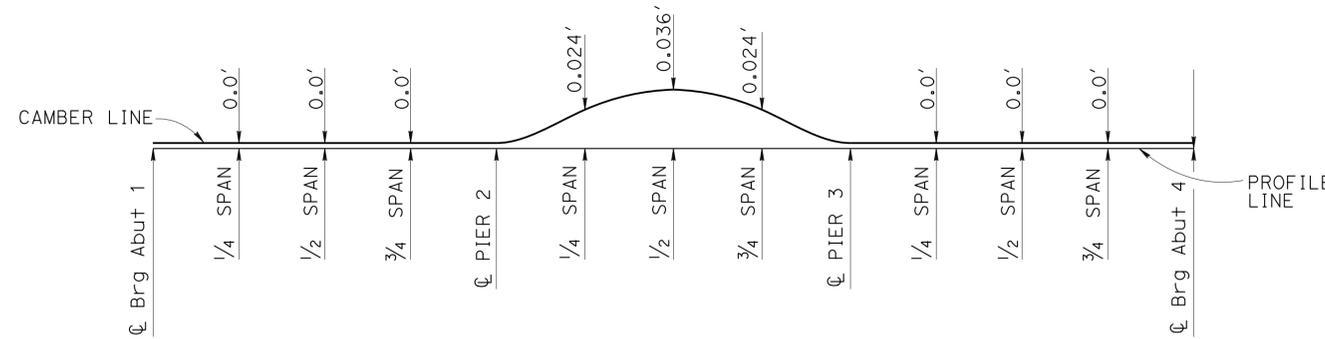
Distribution of prestress force (P_{jack}) between girders shall not exceed the ratio of 3:2. Maximum final force variation between girders shall not exceed 725 kips.

Concrete: f'_c = 4000 psi @ 28 days
 f'_{ci} = 3500 psi @ time of stressing

Contractor shall submit elongation calculations based on initial stress at

λ = 0.8456 times jacking stress.

One end stressing shall be performed from the Abut 1 end.



CAMBER DIAPHRAGM

NO SCALE
 DOES NOT INCLUDE ALLOWANCE FOR FALSEWORK SETTLEMENT

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1110	1168

10-03-13
 REGISTERED CIVIL ENGINEER DATE

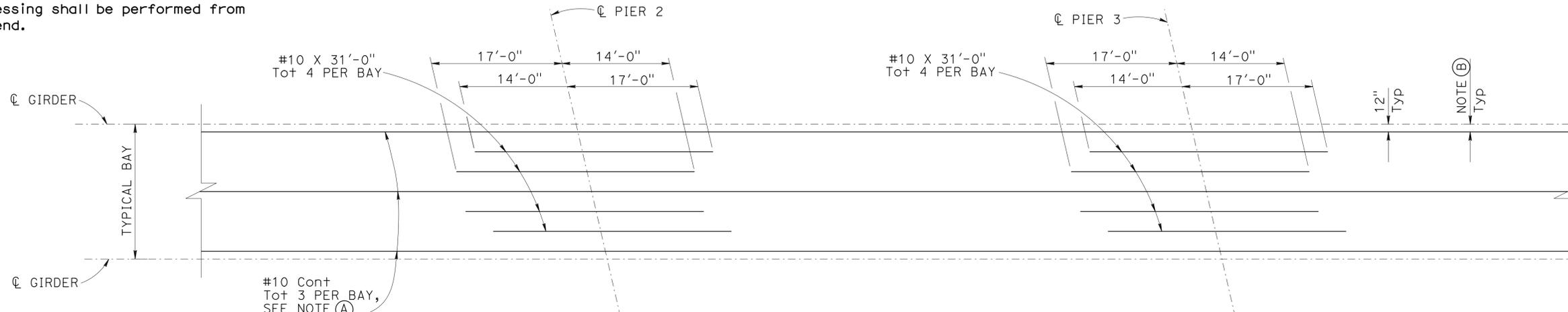
3-3-14
 PLANS APPROVAL DATE

B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA

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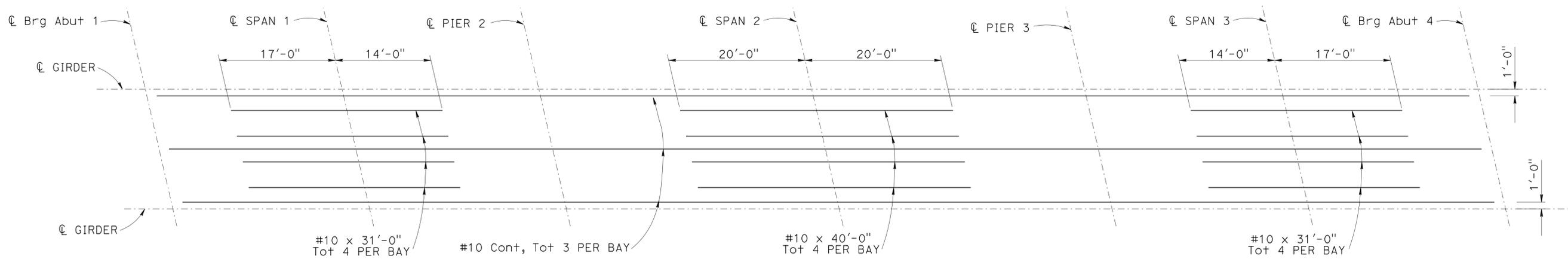
NOTES:

- (A) #10 bars continuous throughout length of frame. Service splice required.
- (B) Place this bar at bend in truss bar. If truss bars are not used, use 9".
- (C) Not all bars shown, see "TYPICAL SECTION" sheet.



TOP LONGITUDINAL REINFORCEMENT

NO SCALE



BOTTOM LONGITUDINAL REINFORCEMENT

NO SCALE

DESIGN	BY D. Balbas	CHECKED J. Fang
DETAILS	BY H. Mahboobi / H. I.	CHECKED J. Fang
QUANTITIES	BY D. Balbas/B. Gunter	CHECKED V. Altamirano/R. Wang

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

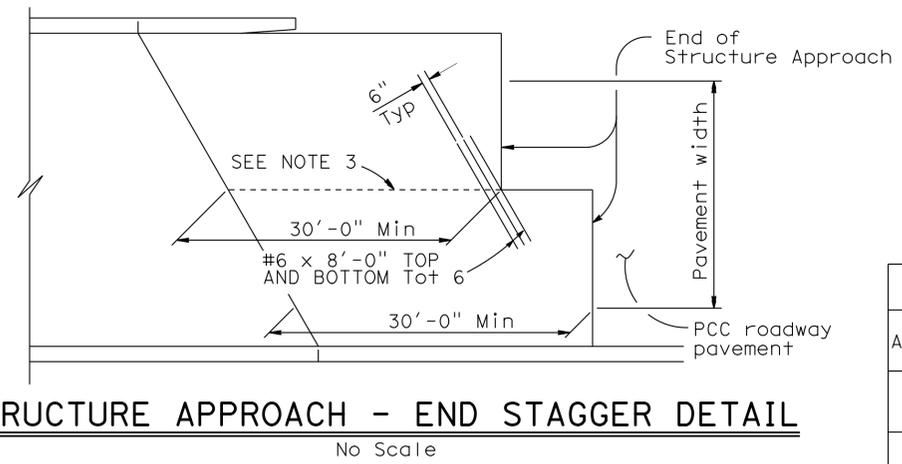
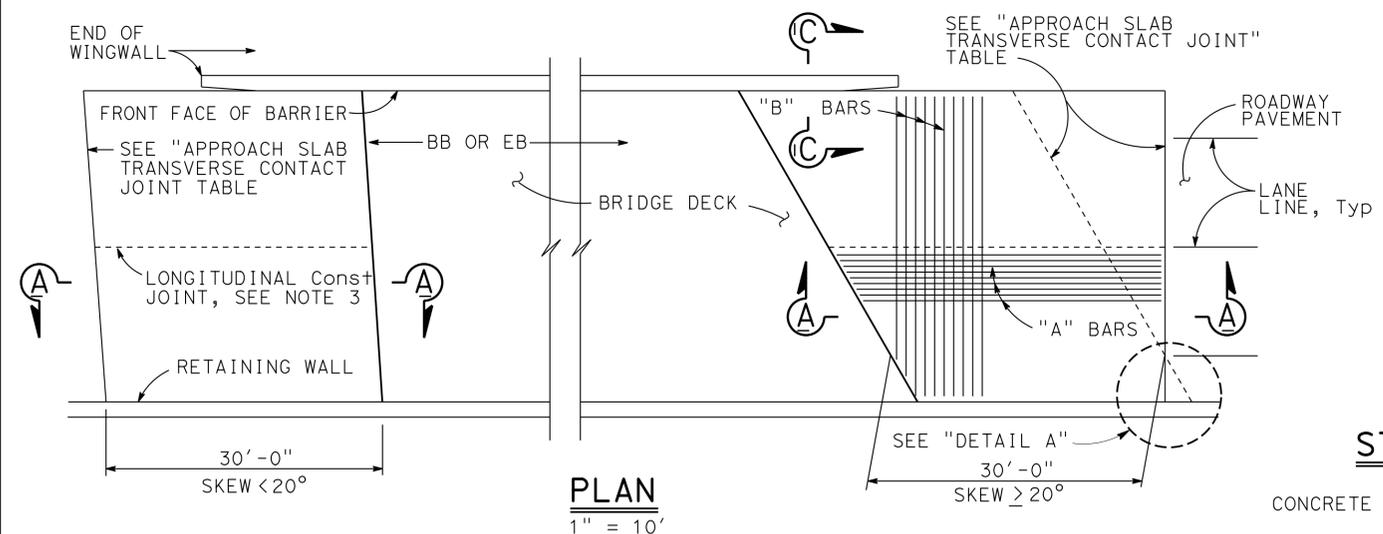
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 19

BRIDGE NO.	54-1286
POST MILE	3.6

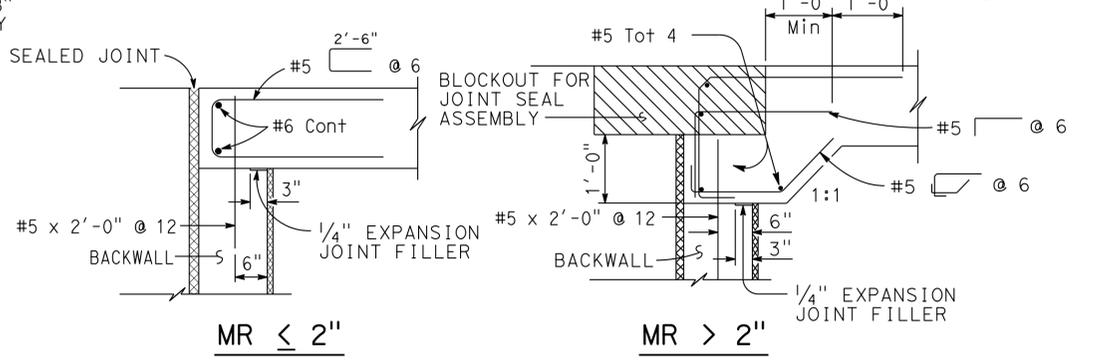
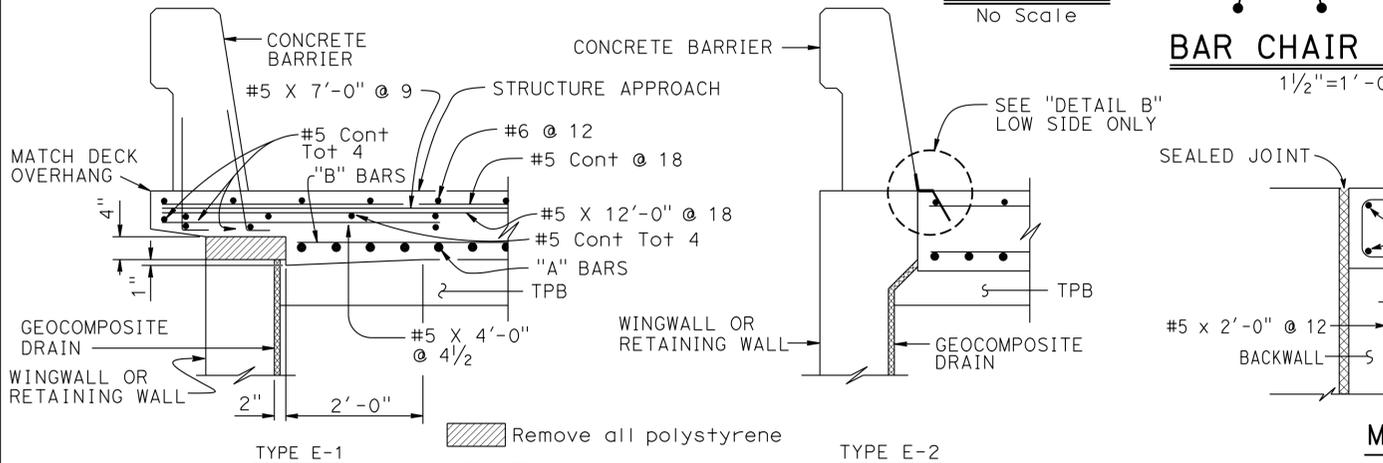
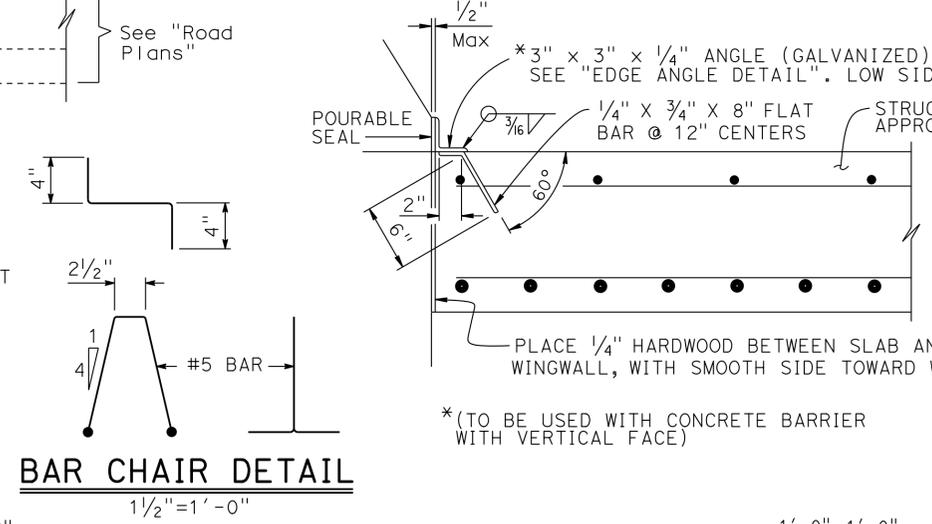
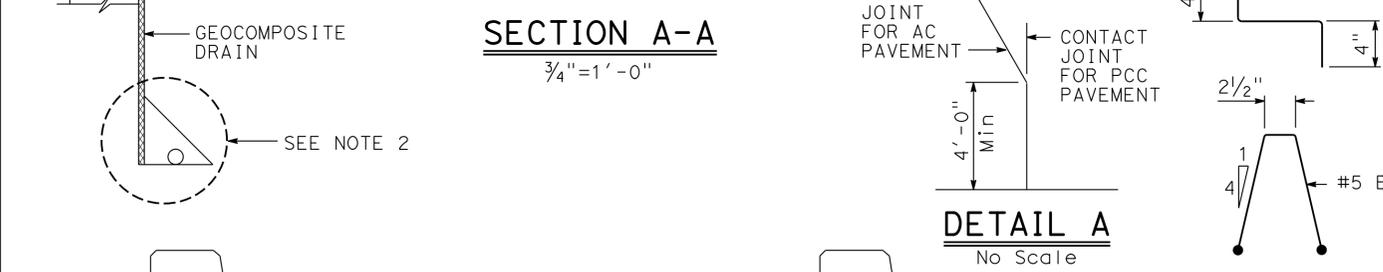
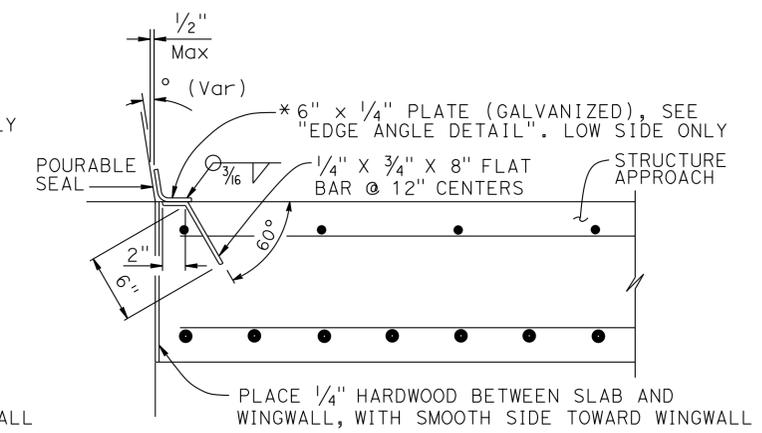
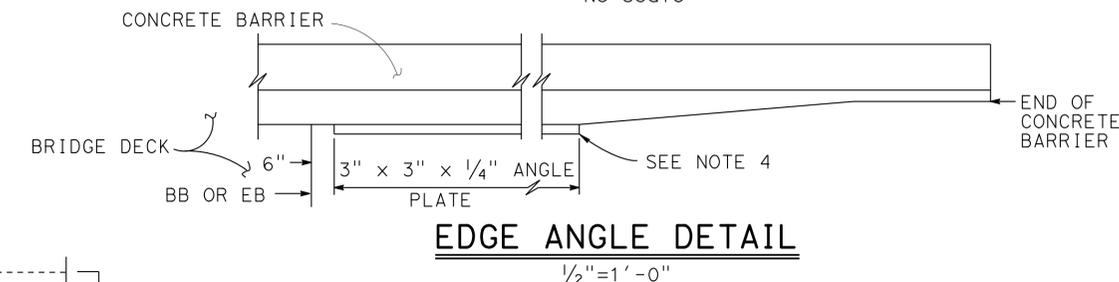
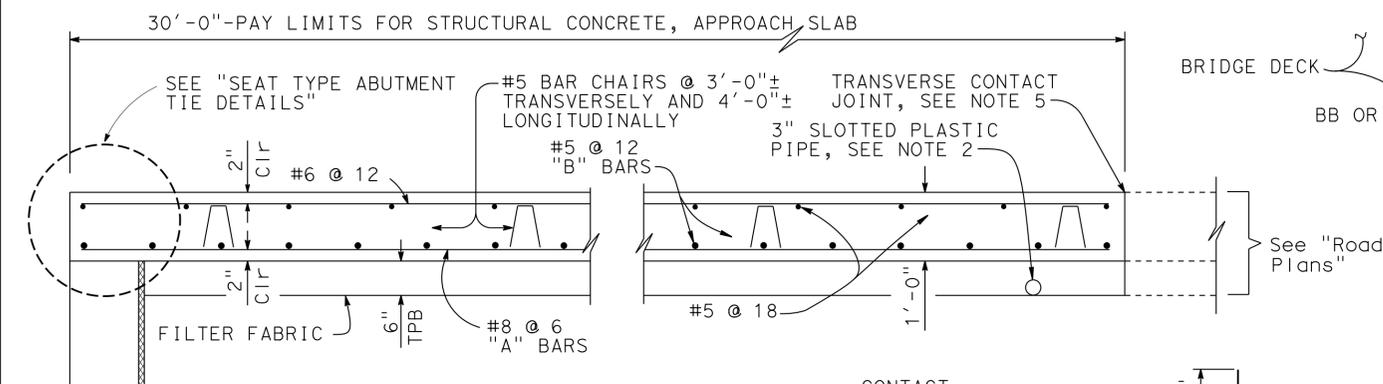
SHEEP CREEK BRIDGE (REPLACE)
GIRDER REINFORCEMENT



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBD	2,138	6.2/6.4, 2.3/R15.2	1111	1168
				8/26/13	
				REGISTERED CIVIL ENGINEER	DATE
				3-3-14	PLANS APPROVAL DATE
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APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	PARALLEL TO FACE OF PN	PARALLEL TO FACE OF PN
20° - 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER LINES 24' TO 36' APART
> 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER AT EACH LANE LINE



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

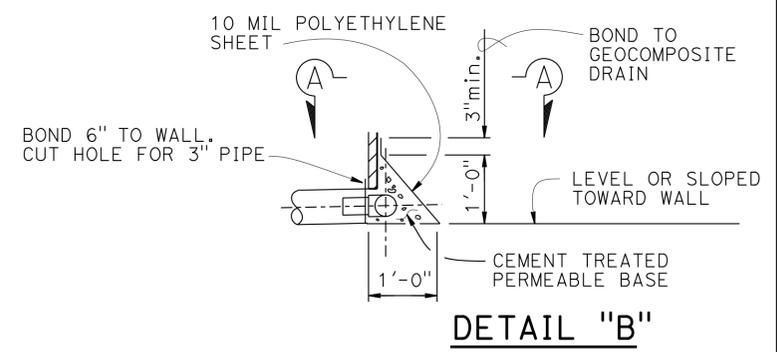
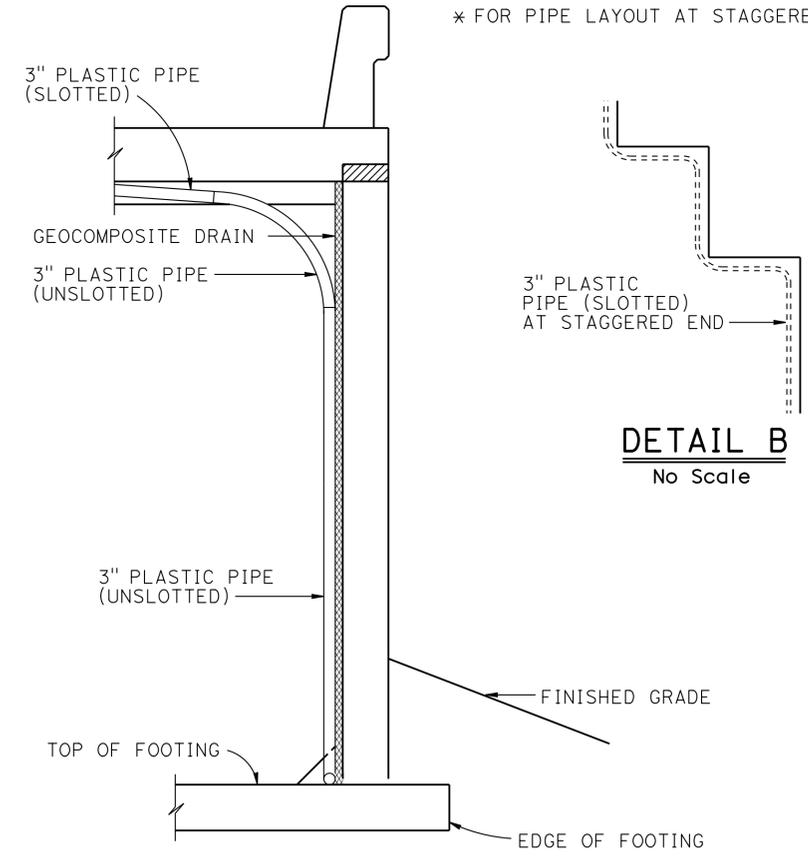
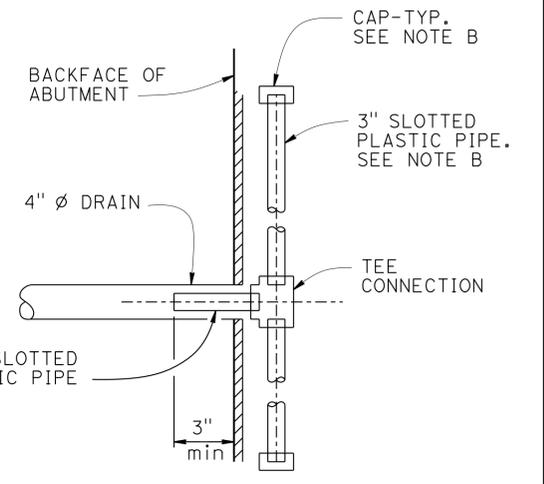
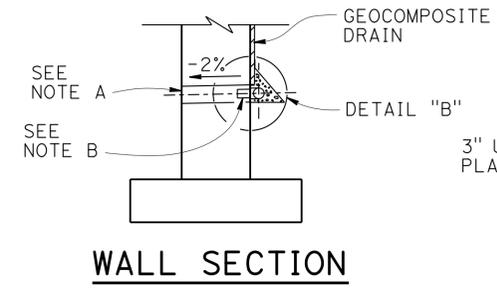
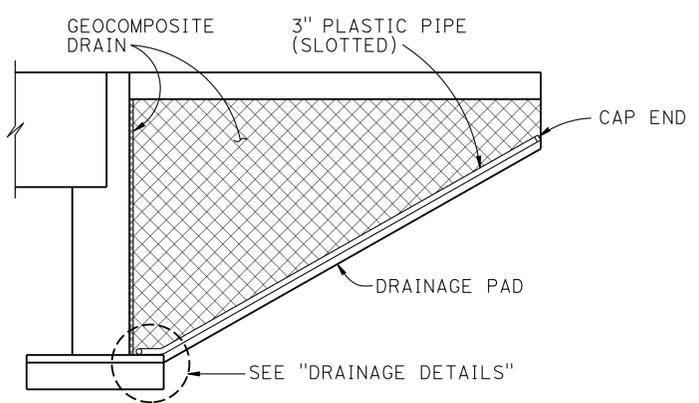
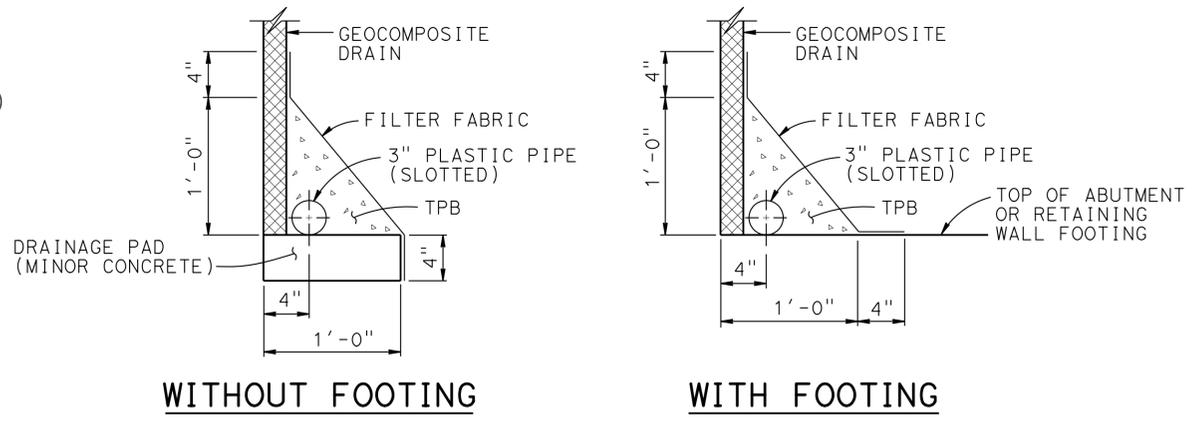
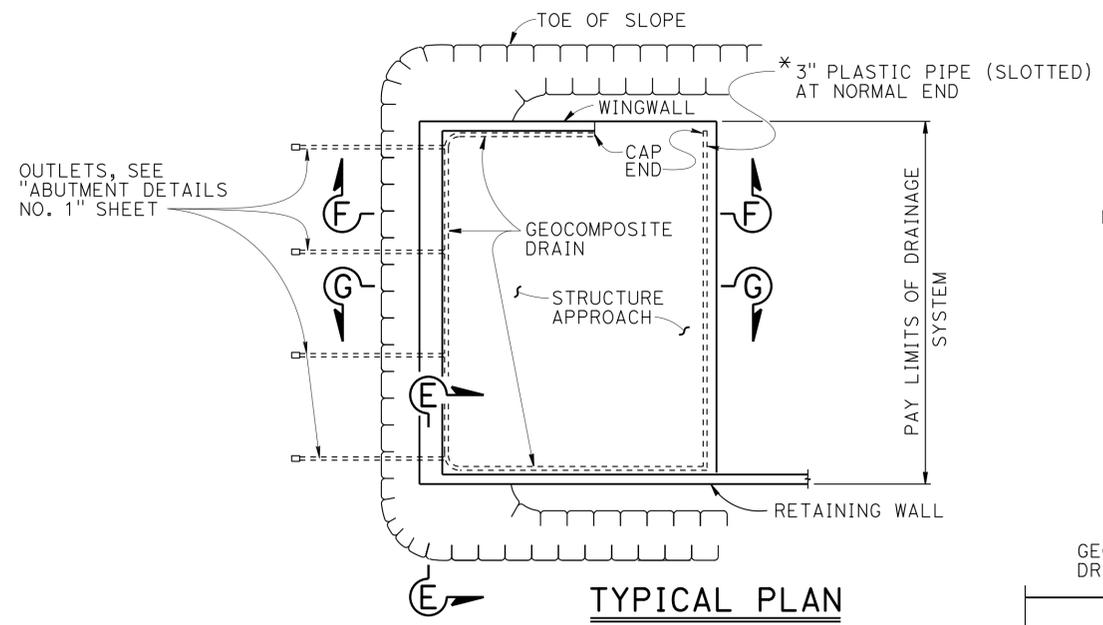
STANDARD DRAWING	
FILE NO. xs3-120	APPROVAL DATE July 2011

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES		BRIDGE NO. 54-1286	SHEEP CREEK BRIDGE (REPLACE)
				POST MILE 3.6	

UNIT: 3621 PROJECT NUMBER & PHASE: 080000609 1		CONTRACT NO.: 08-3401U1		REVISION DATES	SHEET	OF
				05-28-13 08-27-13	17	26

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	2,138	6.2/6.4, 2.3/R15.2	1112	1168

9-9-2013
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE
 B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA
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WEEP HOLE AND GEOCOMPOSITE DRAIN

NO SCALE
ALTERNATIVE TO BRIDGE DETAIL BO-3 3-1

- Notes:
- A. 4" Ø drains, see "TYPICAL PLAN". Exposed wall drains shall be located 3" above Finished Grade.
 - B. Geocomposite drain, cement treated permeable base, and 3" slotted plastic pipe continuous behind retaining wall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4" Ø drain.
 - C. Connect the low end of plastic pipe to the main outlet pipe as applicable.



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

DESIGN	BY D. Balbas	CHECKED B. Gunter
DETAILS	BY F. Hosseinioun / H. I.	CHECKED B. Gunter
QUANTITIES	BY D. Balbas / B. Gunter	CHECKED V. Altamirano / R. Wang

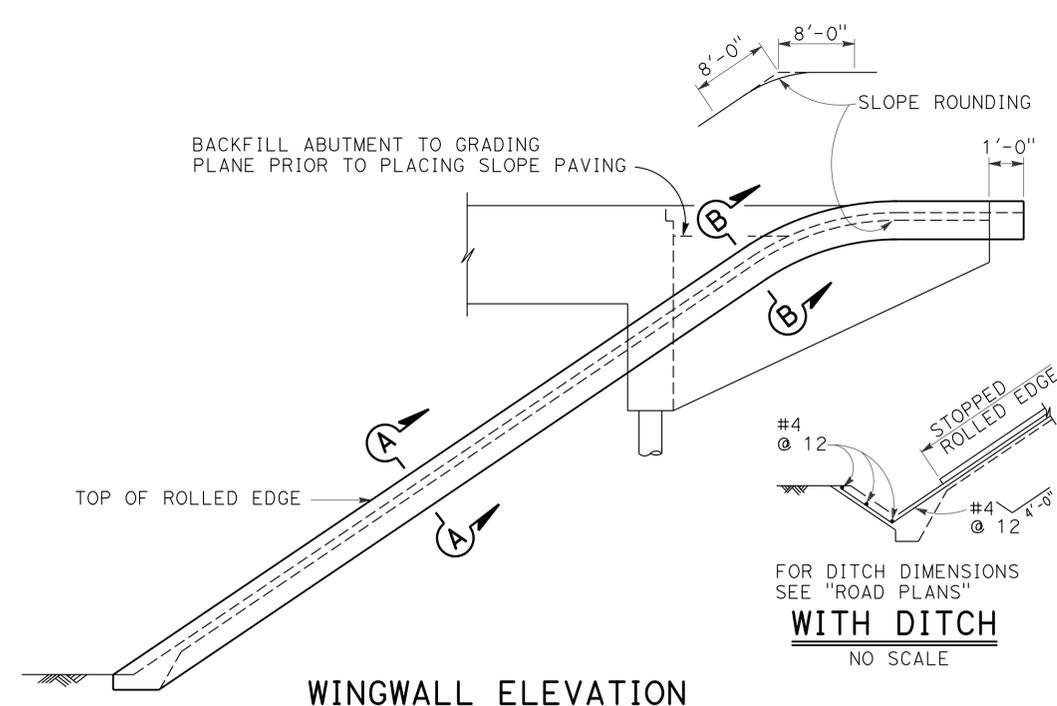
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 19

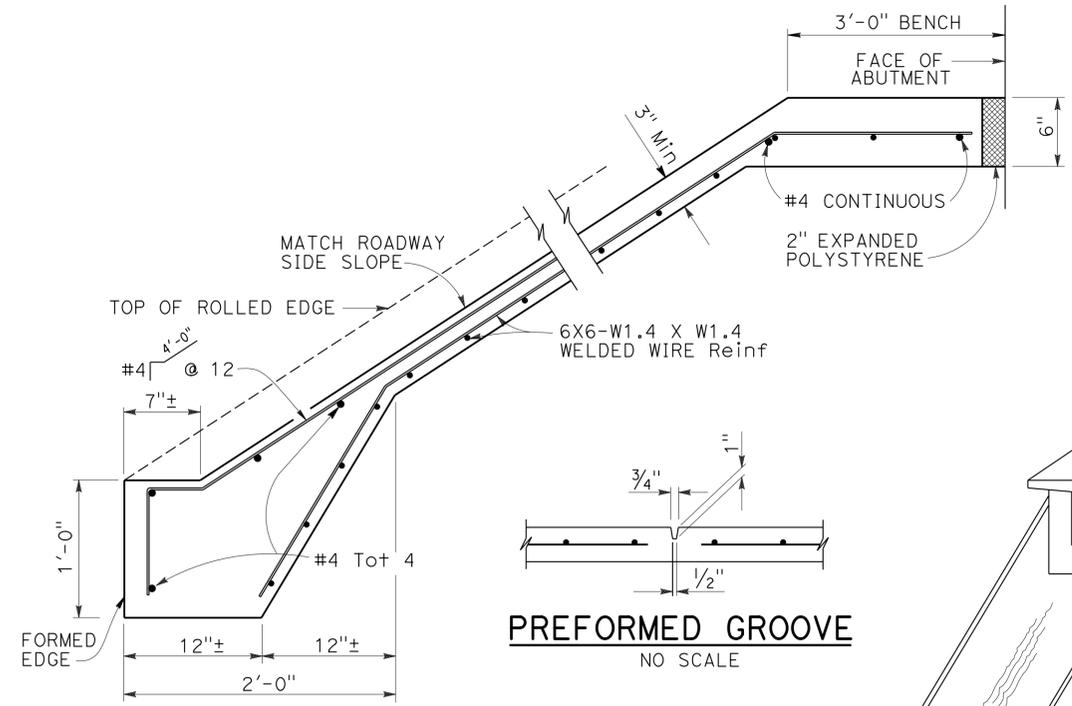
BRIDGE NO. 54-1286
POST MILE 3.6

SHEEP CREEK BRIDGE (REPLACE)
STRUCTURE APPROACH DRAINAGE DETAILS

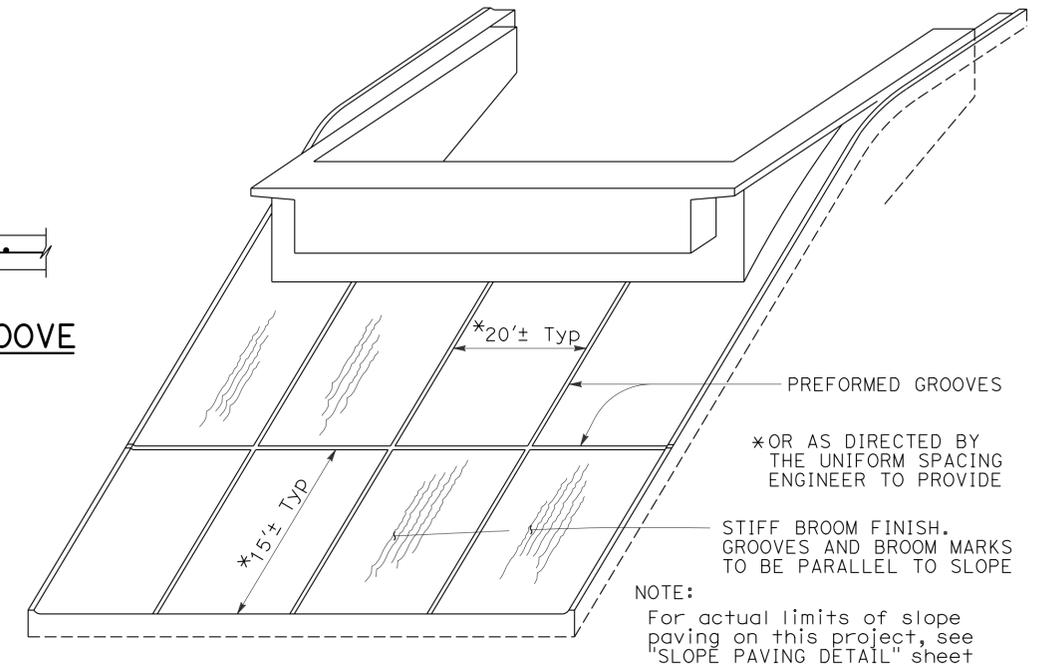
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1113	1168
			10-03-13	REGISTERED CIVIL ENGINEER DATE	
			3-3-14	PLANS APPROVAL DATE	
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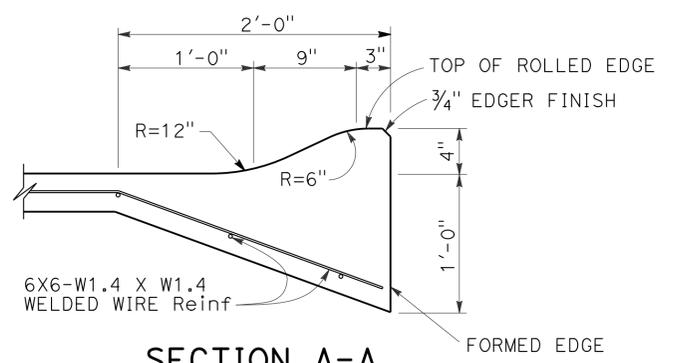
WINGWALL ELEVATION
NO SCALE



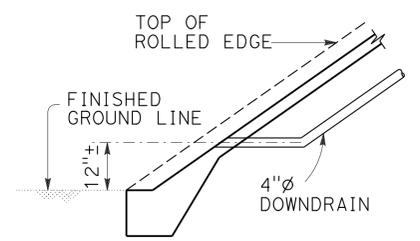
TYPICAL SECTION - CONCRETE PAVING
NO SCALE



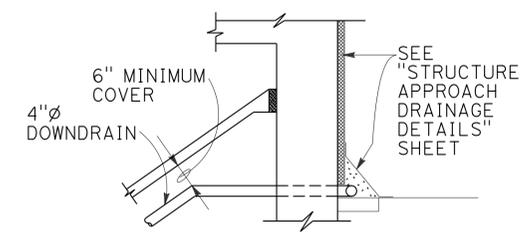
PICTORIAL VIEW OF TYPICAL INSTALLATION
NO SCALE



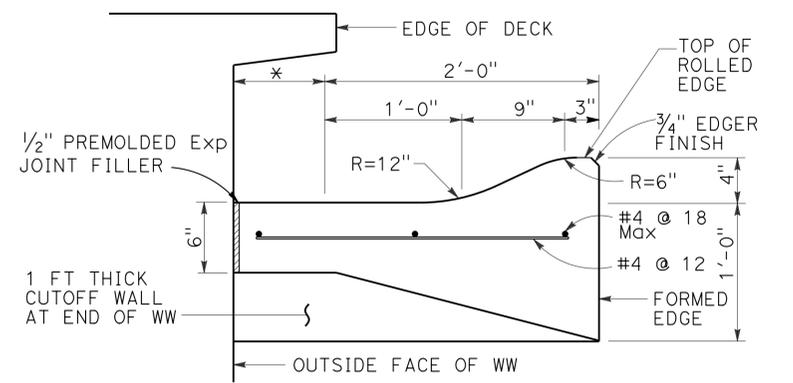
SECTION A-A
NO SCALE



TYPICAL - NO CURB
NO SCALE

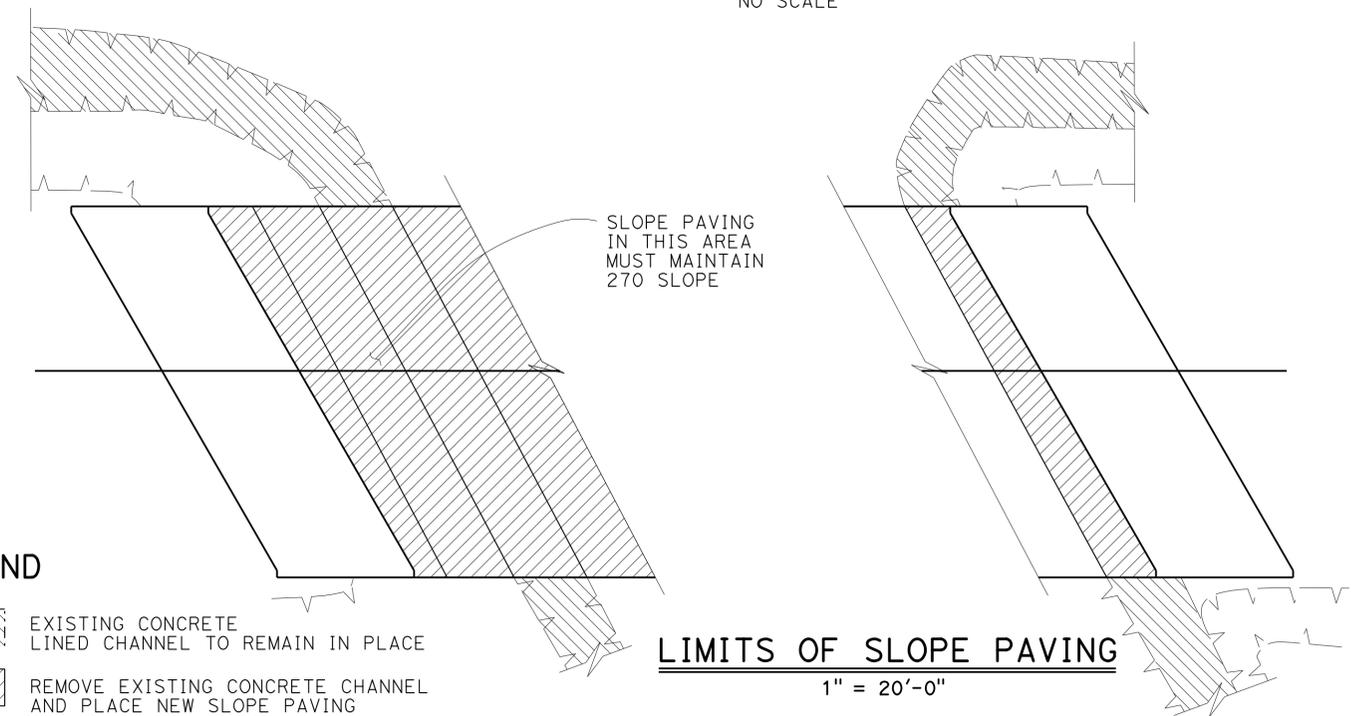


TYPICAL - DRAIN CONNECTION
NO SCALE



SECTION B-B
NO SCALE

* THIS DIMENSION BECOMES ZERO WHEN EDGE OF DECK IS AT OUTSIDE FACE OF WW



LIMITS OF SLOPE PAVING
1" = 20'-0"

LEGEND

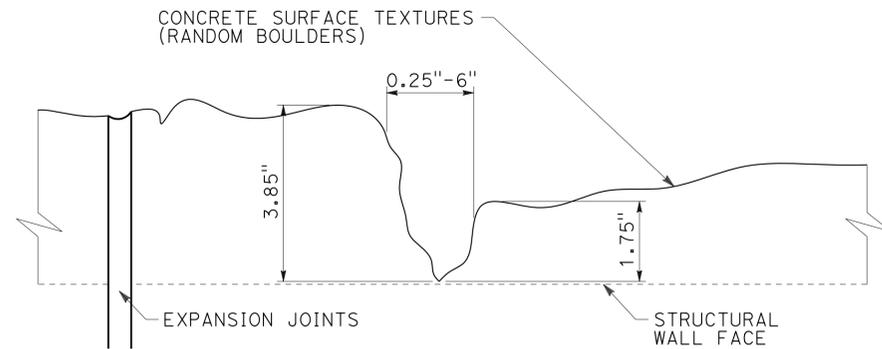
- EXISTING CONCRETE LINED CHANNEL TO REMAIN IN PLACE
- REMOVE EXISTING CONCRETE CHANNEL AND PLACE NEW SLOPE PAVING

DESIGN	BY C. Lomicka	CHECKED B. Gunter	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	SHEEP CREEK BRIDGE (REPLACE) SLOPE PAVING-FULL SLOPE
DETAILS	BY H. Mahboobi / H. I.	CHECKED B. Gunter			54-1286	
QUANTITIES	BY H. Win	CHECKED V. Altamirano			POST MILE 3.6	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3621	PROJECT NUMBER & PHASE: 0800000609 - 1	CONTRACT NO.: 08-3401U1
					DISREGARD PRINTS BEARING EARLIER REVISION DATES	
					REVISION DATES	SHEET 19 OF 26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1114	1168

Matthew DeWitt
 LICENSED LANDSCAPE ARCHITECT
 3-3-14
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

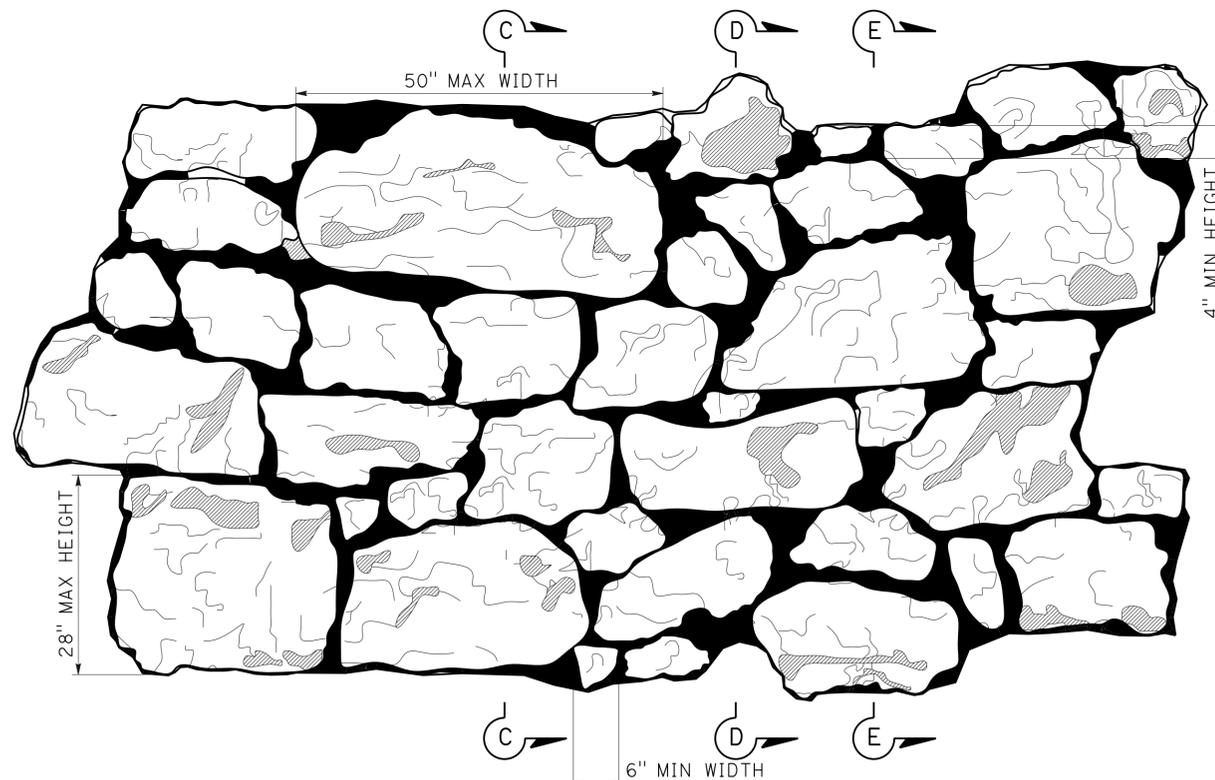
Matthew DeWitt
 LICENSED LANDSCAPE ARCHITECT
 SIGNATURE: 10/31/2013
 RECEIVED DATE: 9/05/2013
 STATE OF CALIFORNIA



NOTE: CONCRETE SURFACE TEXTURES (RANDOM BOULDERS) WILL BE CONTINUED THROUGH EXPANSION JOINTS

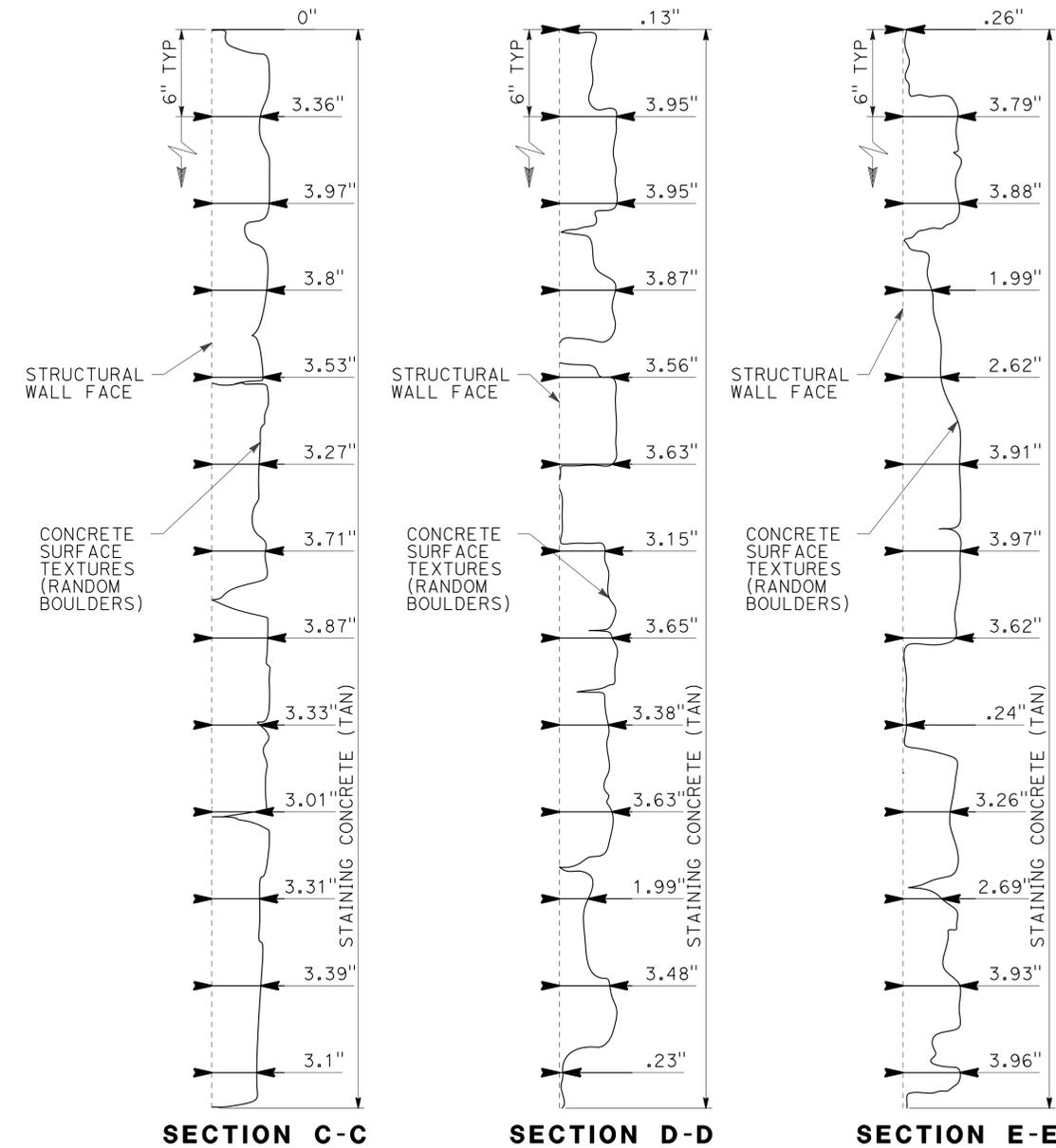
EXPANSION JOINTS DETAIL FOR CONCRETE SURFACE TEXTURES (RANDOM BOULDERS)

NO SCALE



RANDOM BOULDER ELEVATION

SCALE: 1"=1'-0"



NOTE: MAX DEPTH OF 4"

RANDOM BOULDER SECTIONS C,D,E

SCALE: 2"=1'-0"

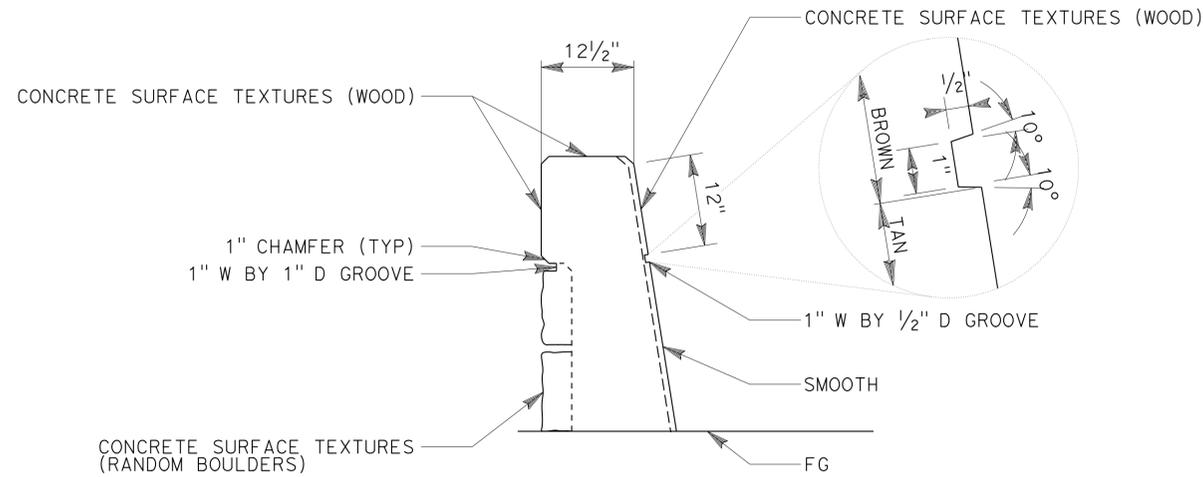
DESIGN	BY	M. Hall	CHECKED	R. Desselle	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	54-1286	SHEEP CREEK BRIDGE (REPLACE) ARCHITECTURAL TREATMENT NO. 1
	DETAILS	BY	M. Hall	CHECKED			R. Desselle	POST MILE	
QUANTITIES	BY	D. Balbas/B. Gunter/ E. Mercado	CHECKED	V. Altamirano/ R. Wang/C. Lomicka	UNIT: 3621 PROJECT NUMBER & PHASE: 080000609 - 1	CONTRACT NO.: 08-3401U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 20 OF 26

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

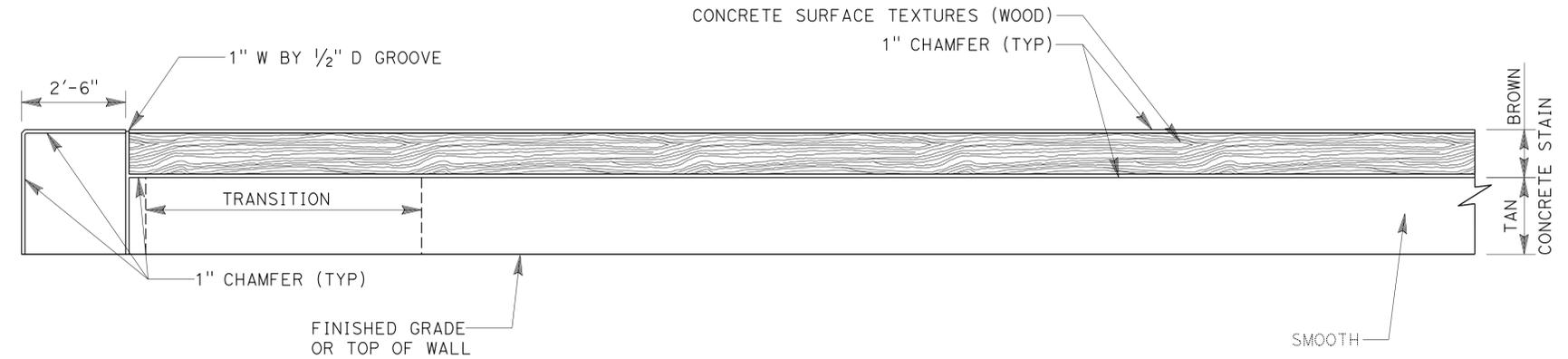
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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 LICENSED LANDSCAPE ARCHITECT					
3-3-14 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



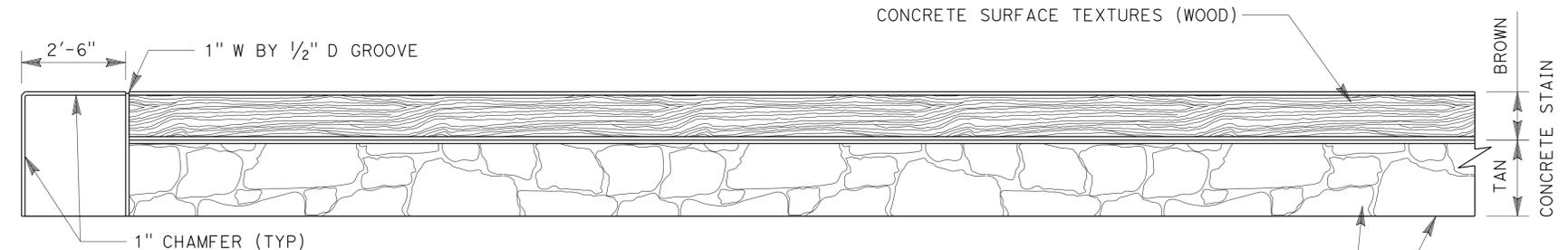
TYPICAL SECTION OF TYPE 736 (MOD)

SCALE: 1" = 1'-0"



FRONT ELEVATION OF TYPE 736 (MOD)

SCALE: 1/2" = 1'-0"



BACK ELEVATION OF TYPE 736 (MOD)

SCALE: 1/2" = 1'-0"



PLAN OF TYPE 736 (MOD)

SCALE: 1/2" = 1'-0"

DESIGN	BY M. Hall	CHECKED R. Desselle
DETAILS	BY M. Hall	CHECKED R. Desselle
QUANTITIES	BY D. Balbas/B. Gunter/ E. Mercado	CHECKED V. Altamirano/ R. Wang/C. Lomicka

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

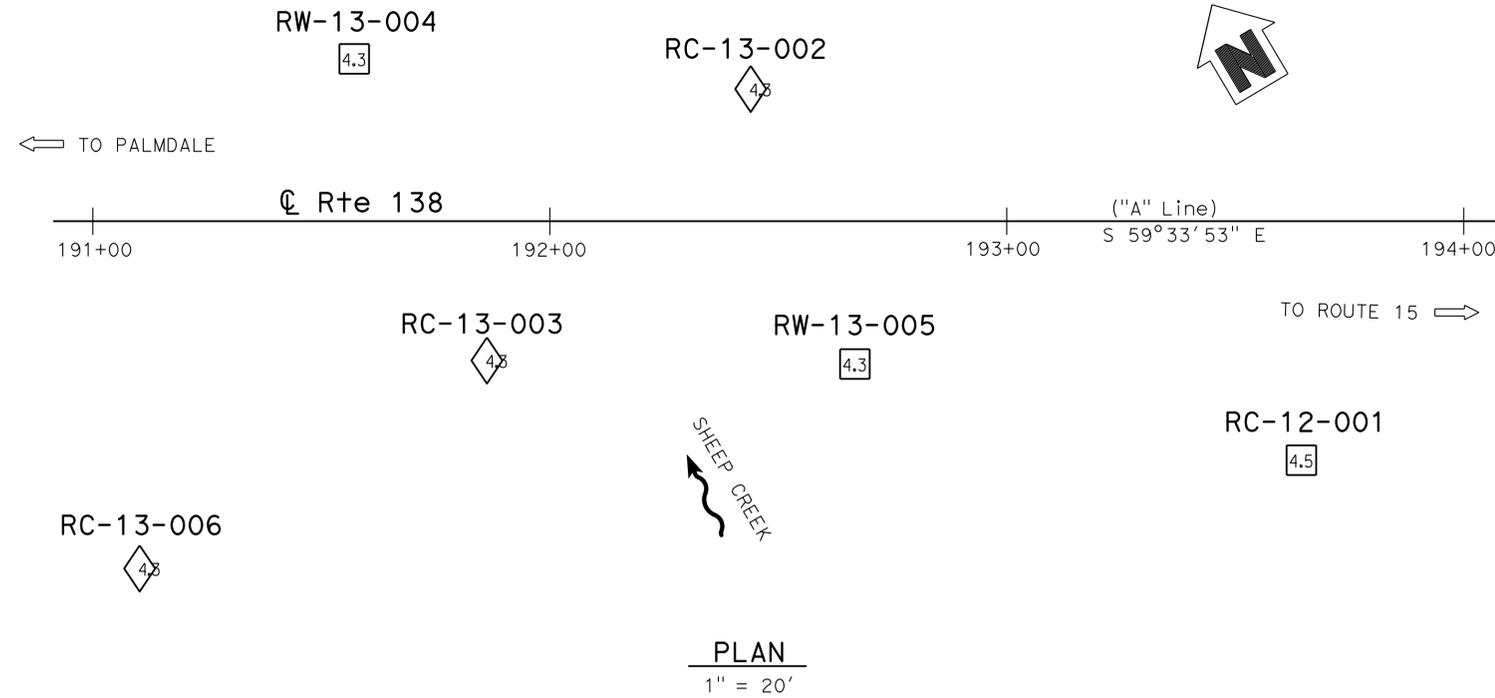
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 19

BRIDGE NO.	54-1286
POST MILE	3.6

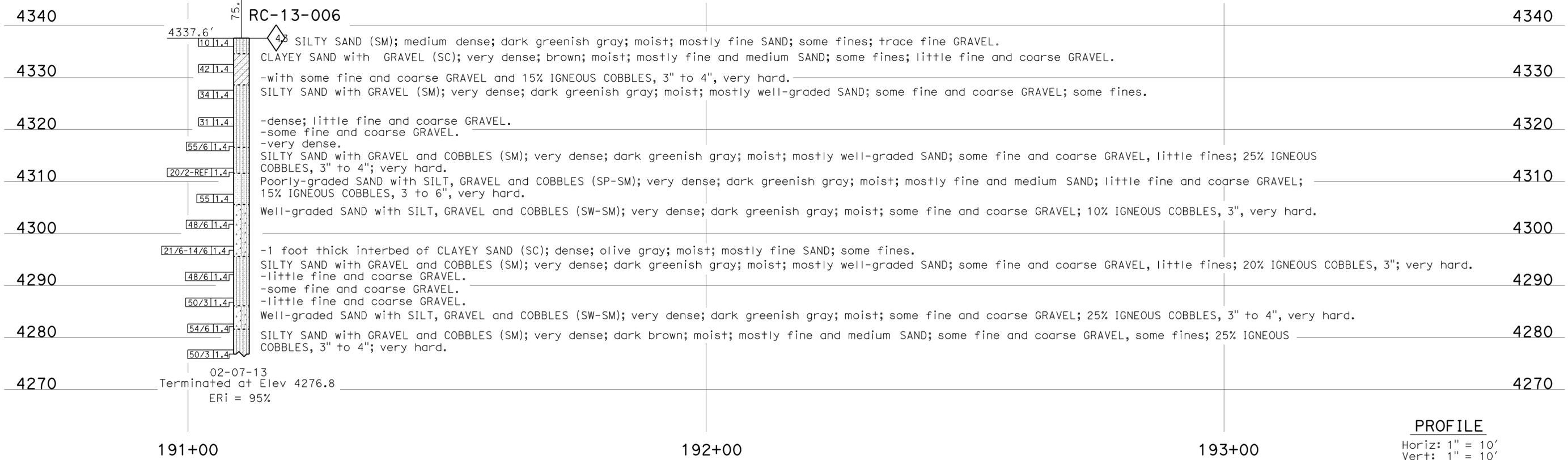
SHEEP CREEK BRIDGE (REPLACE)
ARCHITECTURAL TREATMENT NO. 2

BENCH MARK

PRHV362
 Fnd. DSK stmd SBD138 GPS 3.62
 25.815' Rt, Sta 191+42.5 @ Rte 138
 N 1,975,749.293
 E 6,679,767.375
 Elev 4346.02
 NGVD 29



Note: No Groundwater encountered in the 2012/2013 borings.



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1116	1168

PROFESSIONAL GEOLOGIST
 HECTOR VALENCIA
 No. 7776
 Exp. 02-28-14

8-6-13
 DATE

3-3-14
 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 19		BRIDGE NO. 54-1286 POST MILE 3.6		SHEEP CREEK BRIDGE (REPLACE) LOG OF TEST BORINGS 1 OF 5	
FUNCTIONAL SUPERVISOR NAME: M. DeSalvatore		DRAWN BY: F. Nguyen 12/10 CHECKED BY: E. Neupert		FIELD INVESTIGATION BY: H. Valencia		UNIT: 3643 PROJECT NUMBER & PHASE: 0800006091 - 1 CONTRACT NO.: 08-3401U1		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 03-11-13 07-26-13 08-27-13 SHEET 22 OF 26	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

FILE => 54-1286-Z-1otb_01.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1117	1168

PROFESSIONAL GEOLOGIST: *Hector Valencia*
 DATE: 8-6-13
 PLANS APPROVAL DATE: 3-3-14

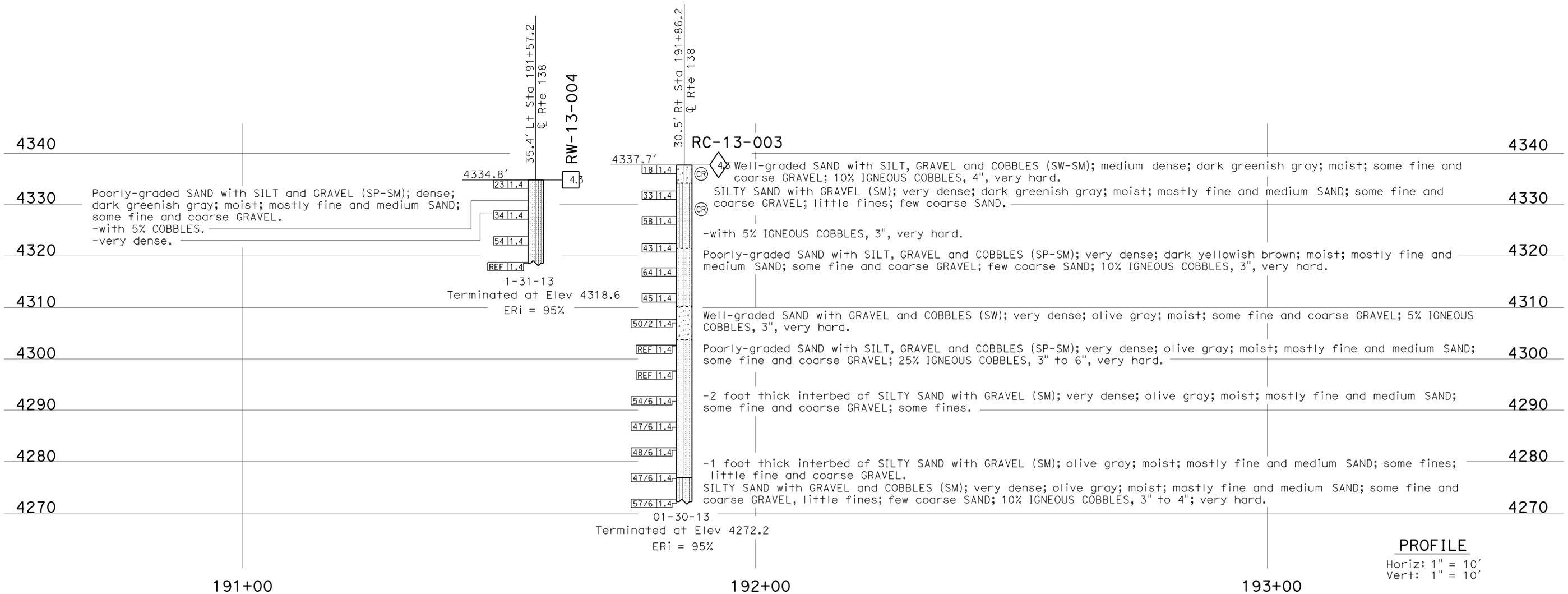
PROFESSIONAL GEOLOGIST: Hector Valencia
 No. 7776
 Exp. 02-28-14
 STATE OF CALIFORNIA

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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 5"



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

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		SHEEP CREEK BRIDGE (REPLACE)	
FUNCTIONAL SUPERVISOR		DRAWN BY: F. Nguyen 12/10		DEPARTMENT OF TRANSPORTATION		STRUCTURE DESIGN		54-1286		LOG OF TEST BORINGS 2 OF 5	
NAME: M. DeSalvatore		CHECKED BY: E. Neupert		FIELD INVESTIGATION BY: H. Valencia		DESIGN BRANCH 19		POST MILE			
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		PROJECT NUMBER & PHASE: 08000006091 - 1 CONTRACT NO.: 08-3401U1		3.6		REVISION DATES	
				0 1 2 3						03-11-13 07-26-13 08-27-13	
										SHEET 23 OF 26	

DISREGARD PRINTS BEARING EARLIER REVISION DATES

FILE => 54-1286-Z-1otb_02.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1119	1168

PROFESSIONAL GEOLOGIST: *Hector Valencia*
 DATE: 8-6-13
 PLANS APPROVAL DATE: 3-3-14

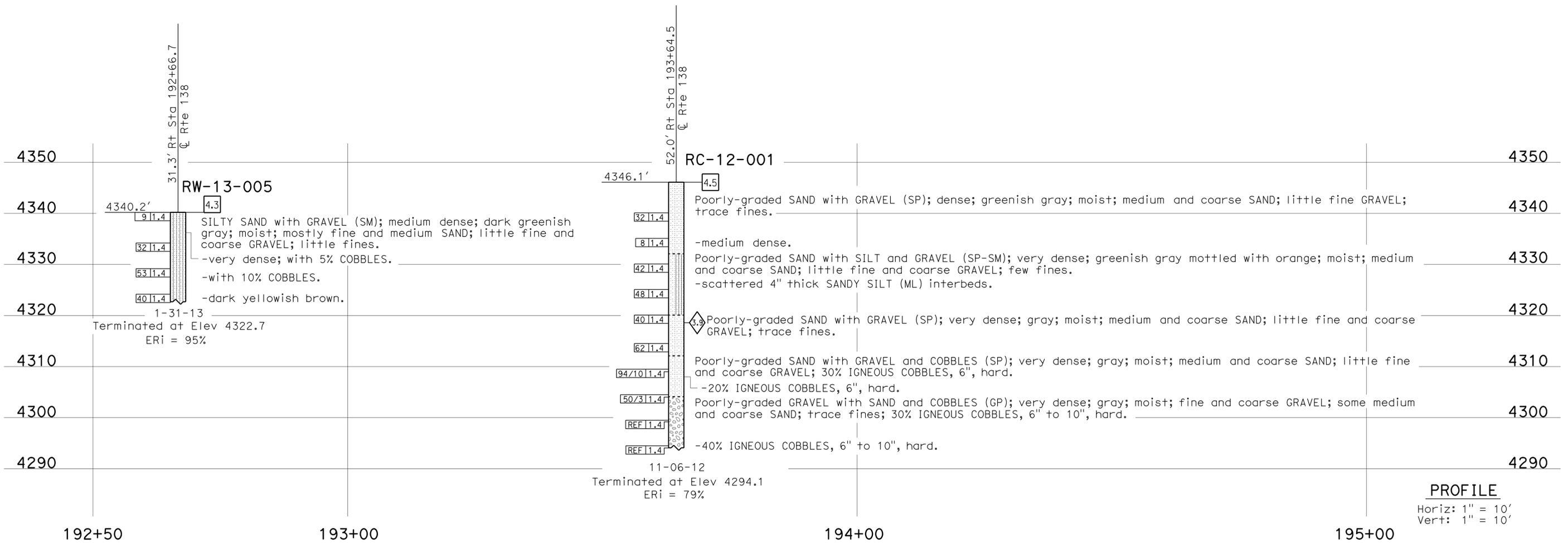
PROFESSIONAL GEOLOGIST: Hector Valencia
 No. 7776
 Exp. 02-28-14
 STATE OF CALIFORNIA

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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.

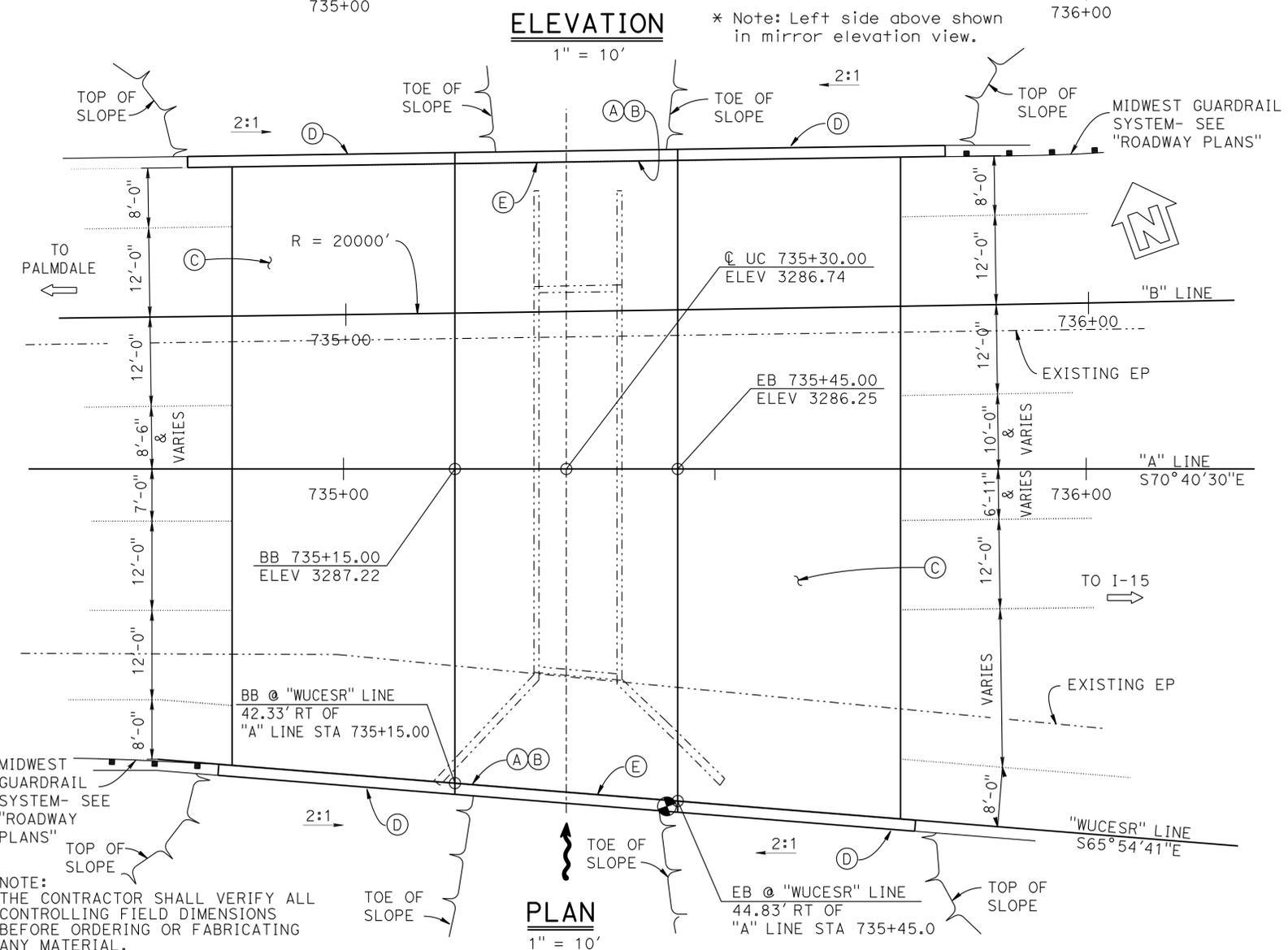
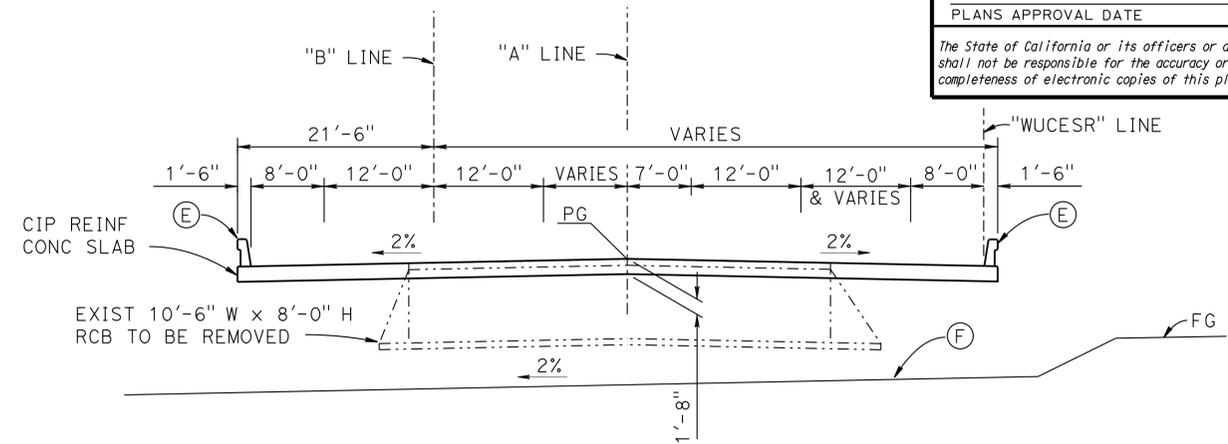
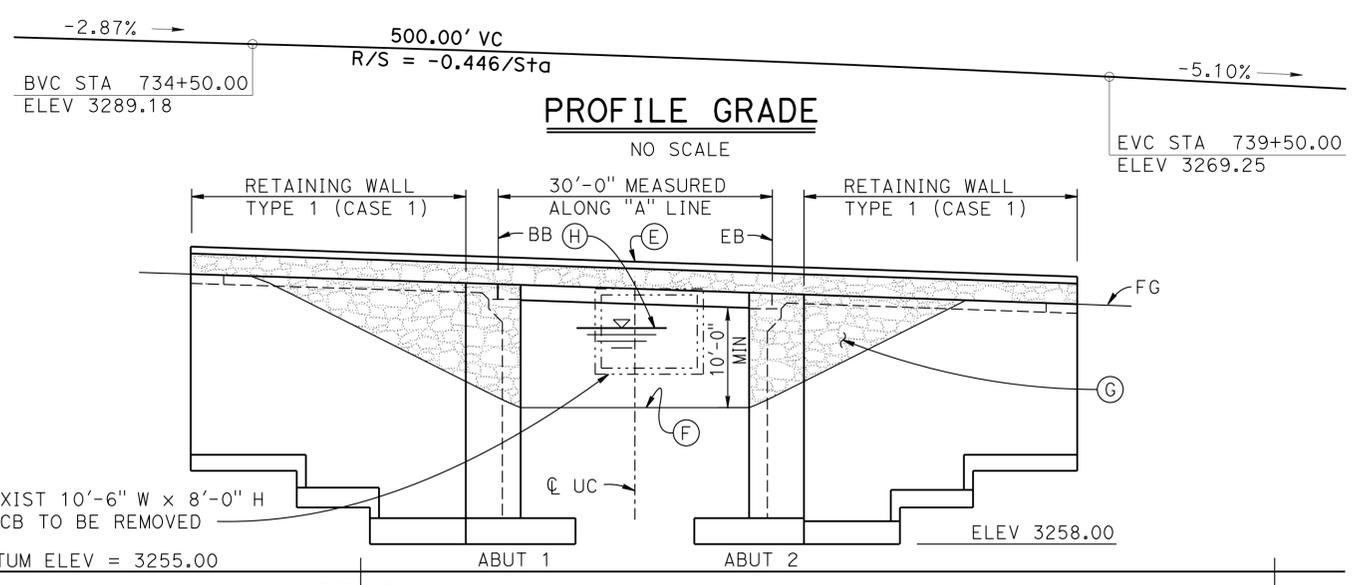
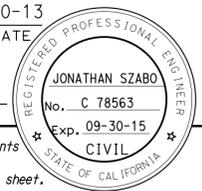
FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 5"



ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		SHEEP CREEK BRIDGE (REPLACE)	
FUNCTIONAL SUPERVISOR		DRAWN BY: F. Nguyen 12/10		DEPARTMENT OF TRANSPORTATION		STRUCTURE DESIGN		54-1286		LOG OF TEST BORINGS 4 OF 5	
NAME: M. DeSalvatore		CHECKED BY: E. Neupert		FIELD INVESTIGATION BY:		DESIGN BRANCH 19		POST MILE			
				H. Valencia, F. De Haro				3.6			
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		PROJECT NUMBER & PHASE: 08000006091 - 1 CONTRACT NO.: 08-3401U1		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	
				0 1 2 3				03-11-13 07-26-13 08-27-13		SHEET 25 OF 26	

FILE => 54-1286-Z-1otb_04.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1121	1168
Jonathan Szabo			7-30-13	REGISTERED CIVIL ENGINEER DATE	
3-3-14			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.					



LEGEND: **TYPICAL SECTION**

- (A) Paint "BR NO. 54-1288".
- (B) Paint "WILDLIFE UNDERCROSSING NO. 2".
- (C) Structure Approach Slab Type N(30S) (MODIFIED).
- (D) Type 1 (Case 1) Retaining Wall.
- (E) Concrete Barrier Rail Type 736(MOD). (See "ARCHITECTURAL TREATMENT NO. 2" sheet).
- (F) 2'-0" Soft Bottom Earth Backfill (Not Compacted), (see "ROADWAY PLANS")
- (G) Architectural Treatment & Stain Concrete.
- (H) For Hydrological Summary see "FOUNDATION PLAN"
- ⊙ Indicates Minimum Vertical Clearance
- Indicates Existing Structure
- Indicates New Structure

INDEX TO PLANS

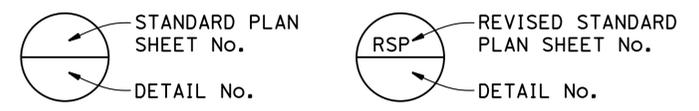
NO.	SHEET NAME
1	GENERAL PLAN
2	CONSTRUCTION STAGING PLAN
3	DECK CONTOURS
4	FOUNDATION PLAN
5	ABUTMENT 1 LAYOUT
6	ABUTMENT 2 LAYOUT
7	ABUTMENT DETAILS NO. 1
8	ABUTMENT DETAILS NO. 2
9	ABUTMENT DETAILS NO. 3
10	RETAINING WALL DETAILS NO. 1
11	RETAINING WALL DETAILS NO. 2
12	TYPICAL SECTION
13	SLAB REINFORCEMENT
14	STRUCTURE APPROACH TYPE N(30S)
15	GEOCOMPOSITE DRAINAGE DETAILS
16	ARCHITECTURAL TREATMENT NO. 1
17	ARCHITECTURAL TREATMENT NO. 2
18	LOG OF TEST BORINGS 1 OF 1

STANDARD PLANS DATED 2010

- A10A ABBREVIATIONS (SHEET 1 OF 2)
- A10C LINES & SYMBOLS (SHEET 1 OF 3)
- A10D LINES & SYMBOLS (SHEET 2 OF 3)
- A10E LINES & SYMBOLS (SHEET 3 OF 3)
- 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
- A62C LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
- B0-1 BRIDGE DETAILS
- B0-3 BRIDGE DETAILS
- B0-5 BRIDGE DETAILS
- B0-13 BRIDGE DETAILS
- B6-21 JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

REVISED STANDARD PLANS DATED 2010

- RSP A10B ABBREVIATIONS (SHEET 2 OF 2)
- RSP B3-1A RETAINING WALL TYPE 1 (CASE 1)
- RSP B3-5 RETAINING WALL DETAILS NO. 1
- RSP B11-56 CONCRETE BARRIER TYPE 736



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

DESIGN	BY J. Szabo	CHECKED F. Chen	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
DETAILS	BY R. Kirkland	CHECKED F. Chen	LAYOUT	BY R. Kirkland / J. Szabo
QUANTITIES	BY J. Szabo	CHECKED F. Chen	SPECIFICATIONS	BY S. Seifert

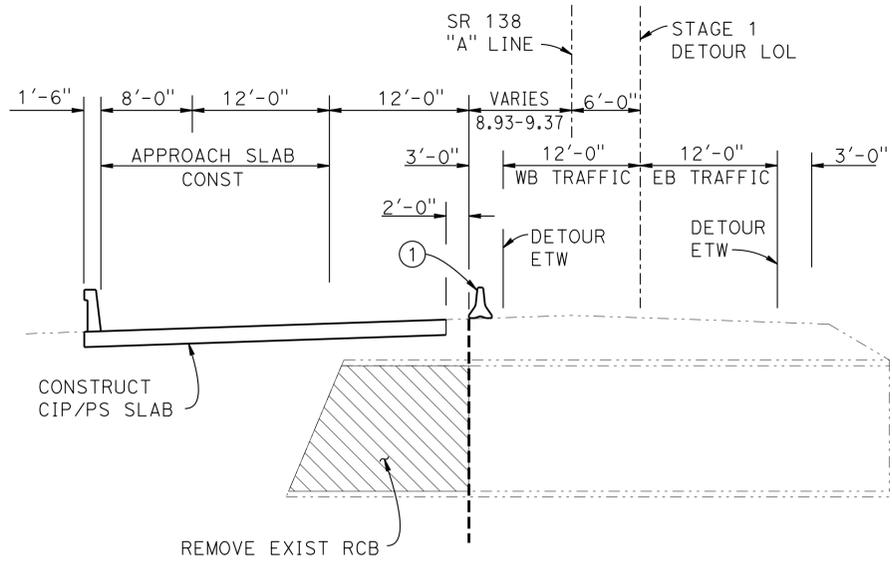
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 19

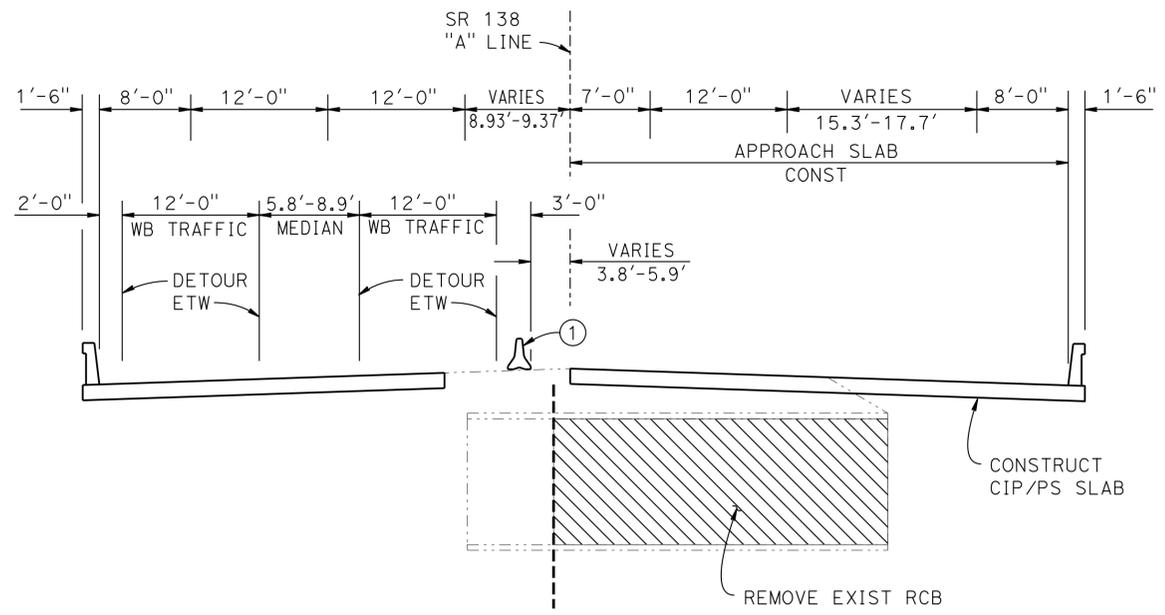
BRIDGE NO. 54-1288
POST MILE 13.9

WILDLIFE UNDERCROSSING NO. 2
GENERAL PLAN

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1122	1168
Jonathan Szabo REGISTERED CIVIL ENGINEER			7-30-13 DATE		
3-3-14 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>					



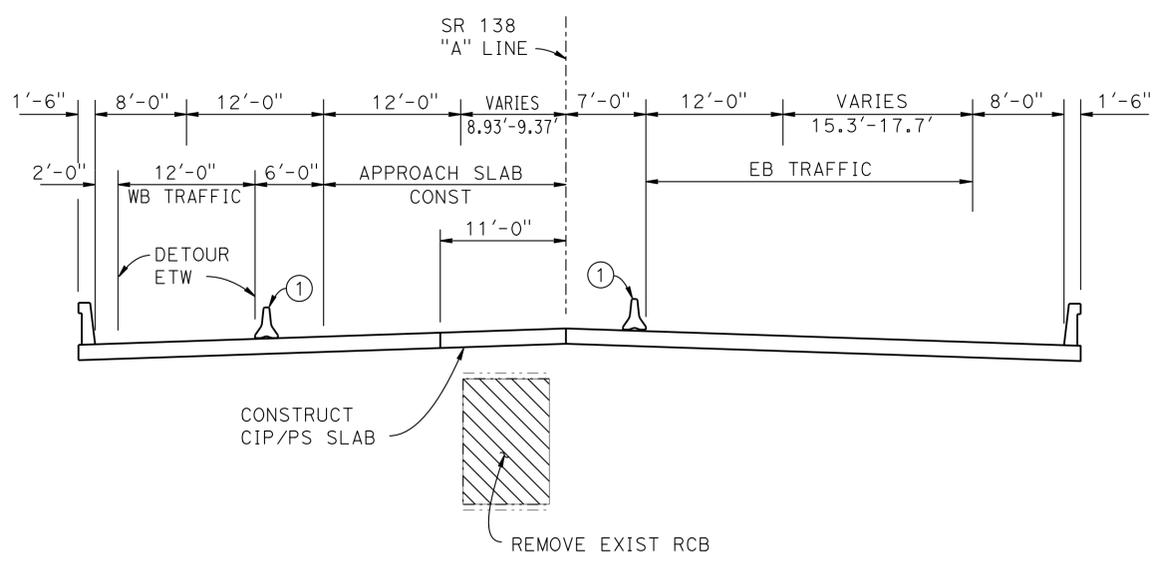
STAGE 1 - PHASE B CONSTRUCTION
 $\frac{1}{8}'' = 1'-0''$



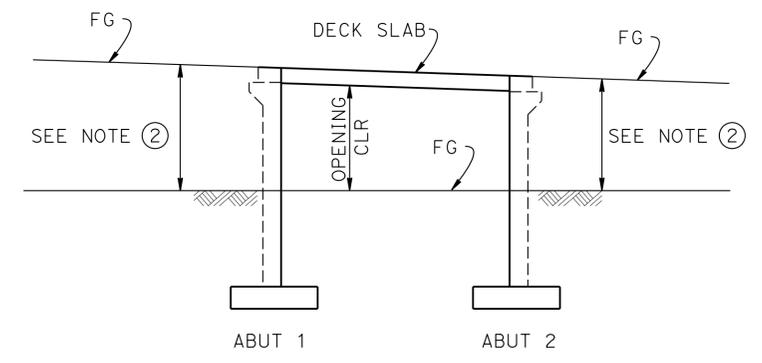
STAGE 2 - PHASE A CONSTRUCTION
 $\frac{1}{8}'' = 1'-0''$

- NOTES:**
- ① Temporary Railing Type K
 - ② Simultaneously backfill upper portion of both abutments after placement of rigid deck slabs

- LEGEND:**
- Indicates concrete removal portion
 - Indicates Existing Structure
 - Indicates New Structure



STAGE 2 - PHASE B CONSTRUCTION
 $\frac{1}{8}'' = 1'-0''$



BACKFILL CONSTRUCTION STAGING
 NO SCALE

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

DESIGN	BY J. Szabo	CHECKED F. Chen
DETAILS	BY R. Kirkland	CHECKED F. Chen
QUANTITIES	BY J. Szabo	CHECKED F. Chen

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

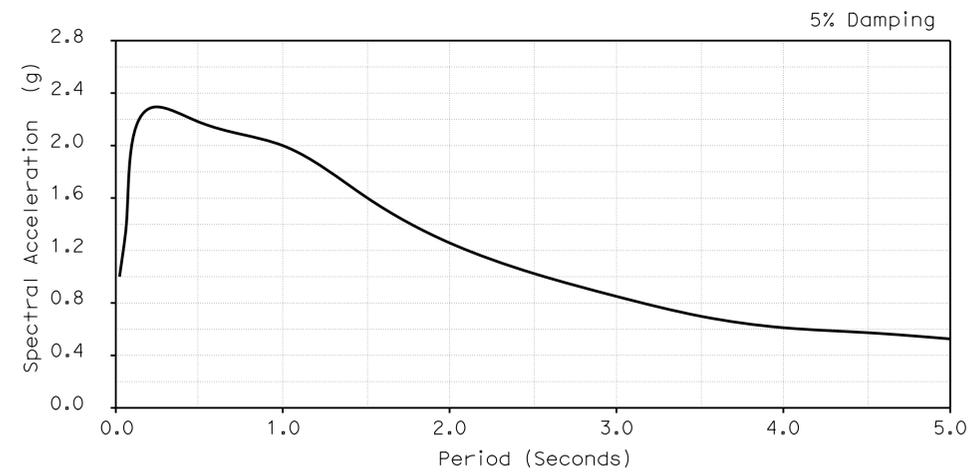
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 19

BRIDGE NO. 54-1288
 POST MILE 13.9
WILDLIFE UNDERCROSSING NO. 2
CONSTRUCTION STAGING PLAN

USERNAME => s124486 DATE PLOTTED => 07-MAR-2014 TIME PLOTTED => 12:26

SPREAD FOOTING DATA TABLE

Support Location	Working Stress Design (WSD)		Load and Resistance Factor Design (LRFD)		
	Permissible Gross Contact Stress (Settlement) (ksf)	Allowable Gross Bearing Capacity (ksf)	Service Permissible Net Contact Stress (Settlement) (ksf)	Strength Factored Gross Nominal Bearing Resistance $\phi_b = X$ (ksf)	Strength Factored Gross Nominal Bearing Resistance $\phi_b = 1.00$ (ksf)
Abut 1	5.4	5.4	5.4	N/A	N/A
Abut 2	5.4	5.4	5.4	N/A	N/A



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1123	1168

Jonathan Szabo
 REGISTERED CIVIL ENGINEER DATE: 7-30-13

3-3-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JONATHAN SZABO
 No. C 78563
 Exp. 09-30-15
 CIVIL
 STATE OF CALIFORNIA

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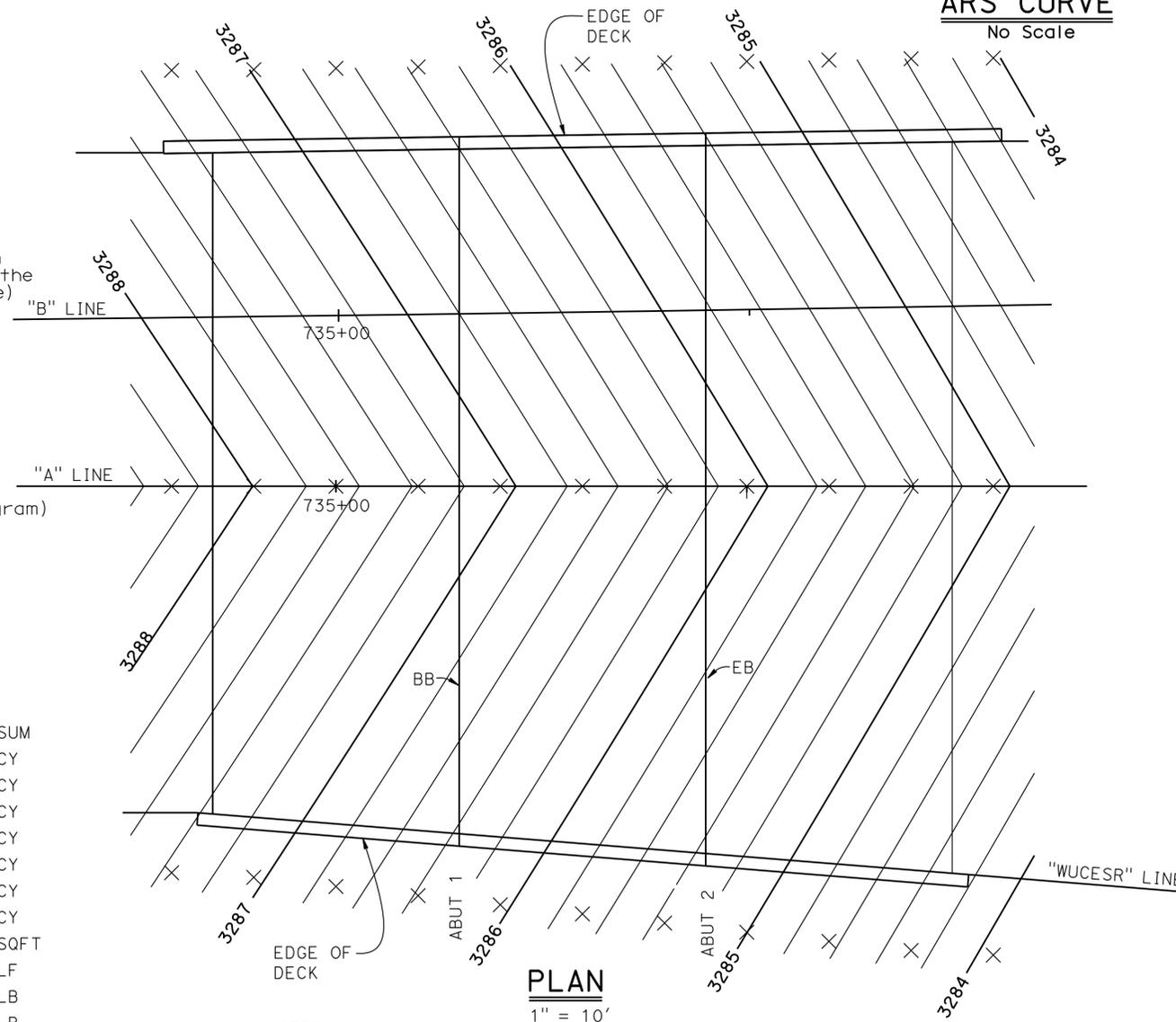
GENERAL NOTES

LOAD AND RESISTANCE FACTOR DESIGN

- DESIGN:** AASHTO LRFD Bridge Design Specifications, 4th Edition and the Caltrans Amendments, preface dated 2010.
- SEISMIC DESIGN:** Caltrans Seismic Design Criteria (SDC) version 1.6 dated November 2010
- DEAD LOAD:** Includes 35 PSF future wearing surface. The deck load between the girders has been increased by a factor of 10% to allow for the use of steel deck forms, (where appropriate)
- LIVE LOAD:** HL93 and permit design load.
- SEISMIC LOADING:** Soil Profile: $V_{s30} = 320$ m/s
Moment Magnitude: $M_{max} = 7.8$
Peak Ground Acceleration = 1.1g
- REINFORCED CONCRETE:** ASTM A706
 $f_y = 60$ ksi
 $f'_c = 3.6$ ksi (except as shown on Concrete Strength and Type Limits Diagram)
- SPREAD FOOTING:** SEE "SPREAD FOOTING DATA TABLE"

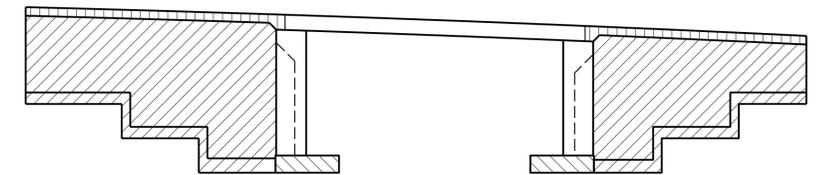
QUANTITIES

	LUMP	SUM
REMOVE REINFORCED CONCRETE BOX CULVERT (LS)		
STRUCTURE EXCAVATION (TYPE D)	4,046	CY
STRUCTURE BACKFILL (BRIDGE)	1,660	CY
STRUCTURE BACKFILL (RETAINING WALL)	1,490	CY
STRUCTURAL CONCRETE, BRIDGE FOOTING	268	CY
STRUCTURAL CONCRETE, BRIDGE	514	CY
STRUCTURAL CONCRETE, RETAINING WALL	324	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N MODIFIED)	224	CY
CONCRETE SURFACE TEXTURE	3,248	SQFT
JOINT SEAL (MR $\frac{1}{2}$ ")	169	LF
BAR REINFORCING STEEL (BRIDGE)	183,284	LB
BAR REINFORCING STEEL (RETAINING WALL)	55,058	LB
BAR REINFORCING STEEL (EPOXY COATED) (BRIDGE)	34,350	LB
PREPARE AND STAIN CONCRETE	4,261	SQFT
CONCRETE BARRIER (TYPE 736 MODIFIED)	196	LF



NOTES:

1. X = 10 ft intervals along Station Line
2. Contour intervals = 0.20 ft
3. Contours do not include Camber



- Structural Concrete, Bridge (4000 psi at 28 days)
- Structural Concrete, Bridge Footing (3600 psi at 28 days)
- Structural Concrete, Approach Slab (3600 psi at 28 days)
- Structural Concrete, Retaining Wall (3600 psi at 28 days)

CONCRETE STRENGTH AND TYPE LIMITS

No Scale

DESIGN	BY J. Szabo	CHECKED F. Chen
DETAILS	BY R. Kirkland	CHECKED F. Chen
QUANTITIES	BY J. Szabo	CHECKED F. Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 19

BRIDGE NO.	54-1288
POST MILE	13.9

WILDLIFE UNDERCROSSING NO. 2

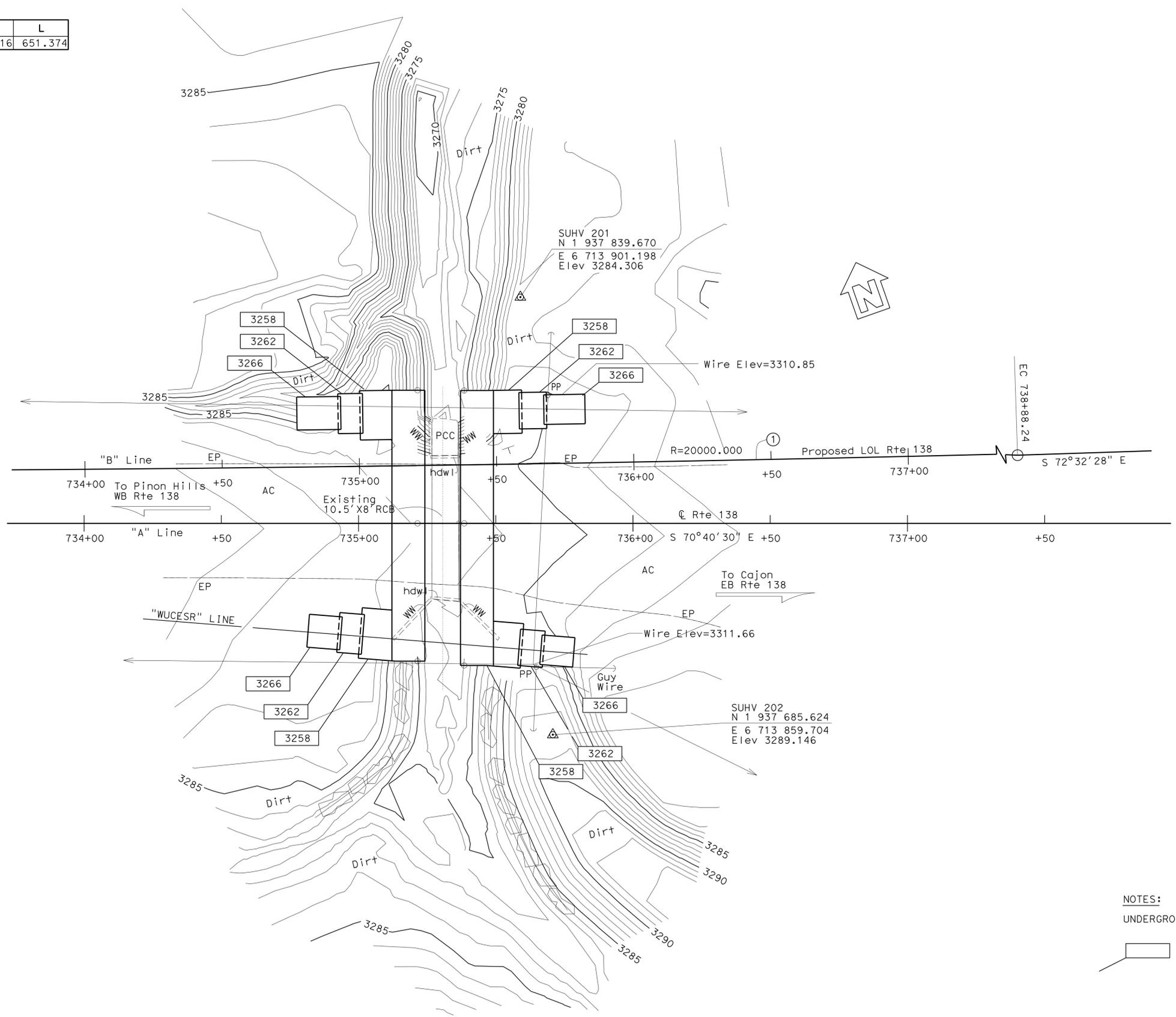
DECK CONTOURS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1124	1168

Jonathan Szabo
 REGISTERED CIVIL ENGINEER DATE 7-30-13
 3-3-14
 PLANS APPROVAL DATE
 No. C 78563
 Exp. 09-30-15
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CURVE DATA

No.	R	Δ	T	L
(1)	20000.00	01°51'58"	325.716	651.374



HYDROLOGICAL SUMMARY
 WILDLIFE UC NO.2, Br. 54-1288

Drainage Area: 0.62 Square Miles
 30 ft wide channel slope = 0.03 +/- ft/ft
 Water Surface Elevation: 3,281.58 ft
 Design Q₁₀₀ Discharge: 1,677 cfs
 Design Q₅₀ Discharge: 1,200 cfs
 Minimum Soffit Elevation: 3,282.58 ft
 Average Velocity: 7.9 ft/sec

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

* Note: cfs = Cubic Feet per Second

SURVEY CONTROL

SUHV 201
 Fnd 1" IP/Red Plug
 82.265' Lt. @ Rte 138
 Sta 735+58.97
 N 1 937 839.670
 E 6 713 901.198
 Elev 3284.306

SUHV 202
 Fnd 1" IP/Red Plug
 76.833' Rt. @ Rte 138
 Sta 735+70.79
 N 1 937 685.624
 E 6 713 859.704
 Elev 3289.146

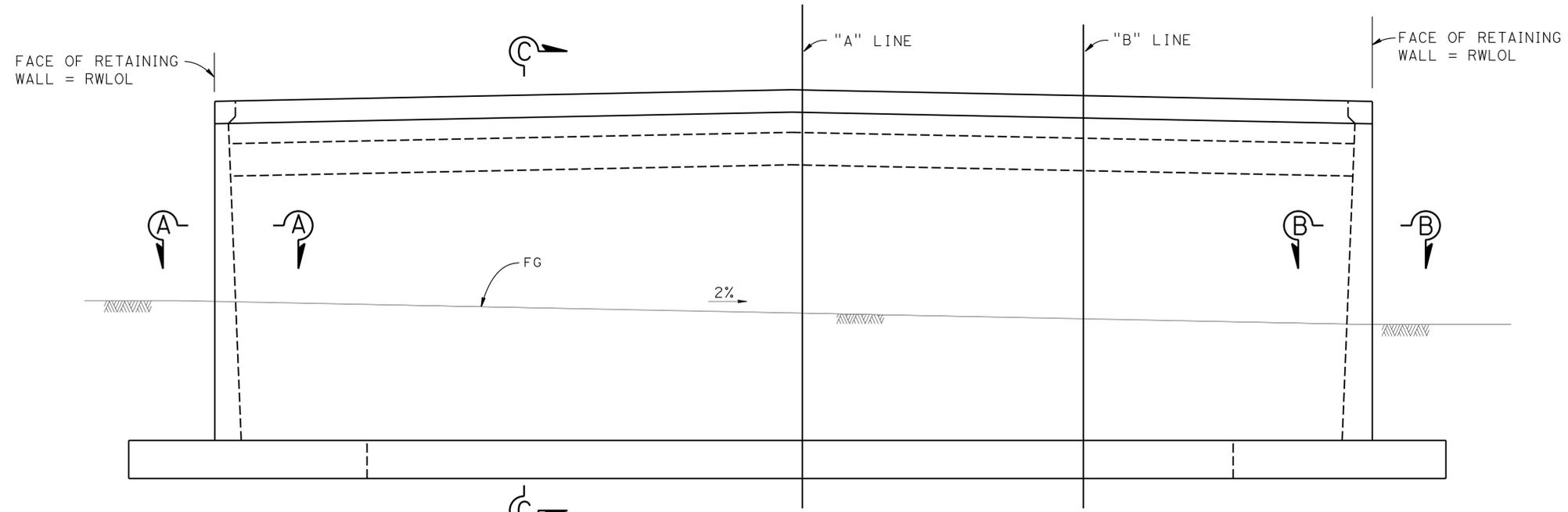
NOTES:
 UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE

INDICATES BOTTOM OF FOOTING ELEVATION

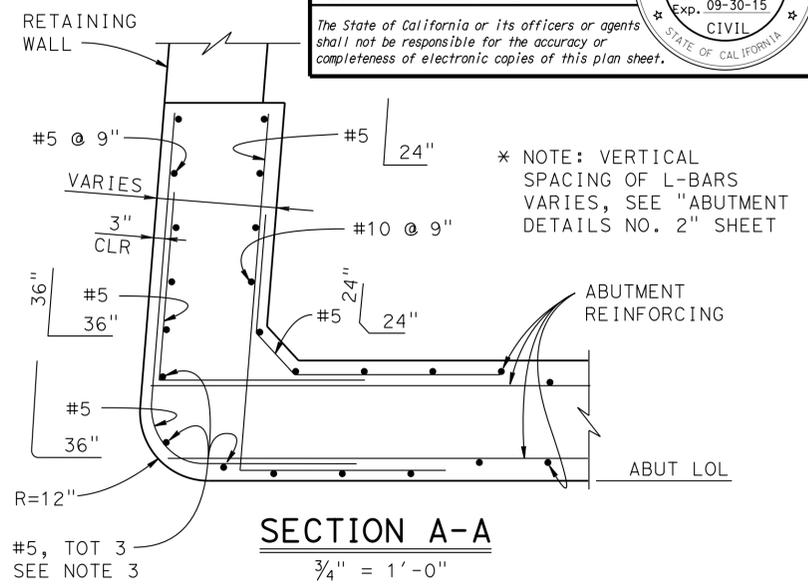
PRELIMINARY INVESTIGATION SECTION				DESIGN BY J. Szabo CHECKED F. Chen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 16	BRIDGE NO. 54-1288 POST MILE 13.9	WILDLIFE UNDERCROSSING NO.2	
SCALE VERT. DATUM NGVD 29(1992.88)	PHOTOGRAMMETRY AS OF: X	SURVEYED BY T. Phung 06-10	CHECKED BY E. Viagar 06-10	DETAILS BY R. Kirkland CHECKED F. Chen				FOUNDATION PLAN	
ALIGNMENT TIES Dist. Traverse Sheet	DRAFTED BY M. Sadaghiani 07-10	CHECKED BY E. Viagar 07-10	CHECKED BY E. Viagar 07-10	QUANTITIES BY J. Szabo CHECKED F. Chen					
STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 09-01-10)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3647 PROJECT NUMBER & PHASE: 0800000609 1	CONTRACT NO.: 08-3401U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	
						REVISION DATES		SHEET 4	OF 18

FILE => 54-1288-e-fp04.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1125	1168
Jonathan Szabo			7-30-13	REGISTERED PROFESSIONAL ENGINEER DATE	
3-3-14			PLANS APPROVAL DATE		
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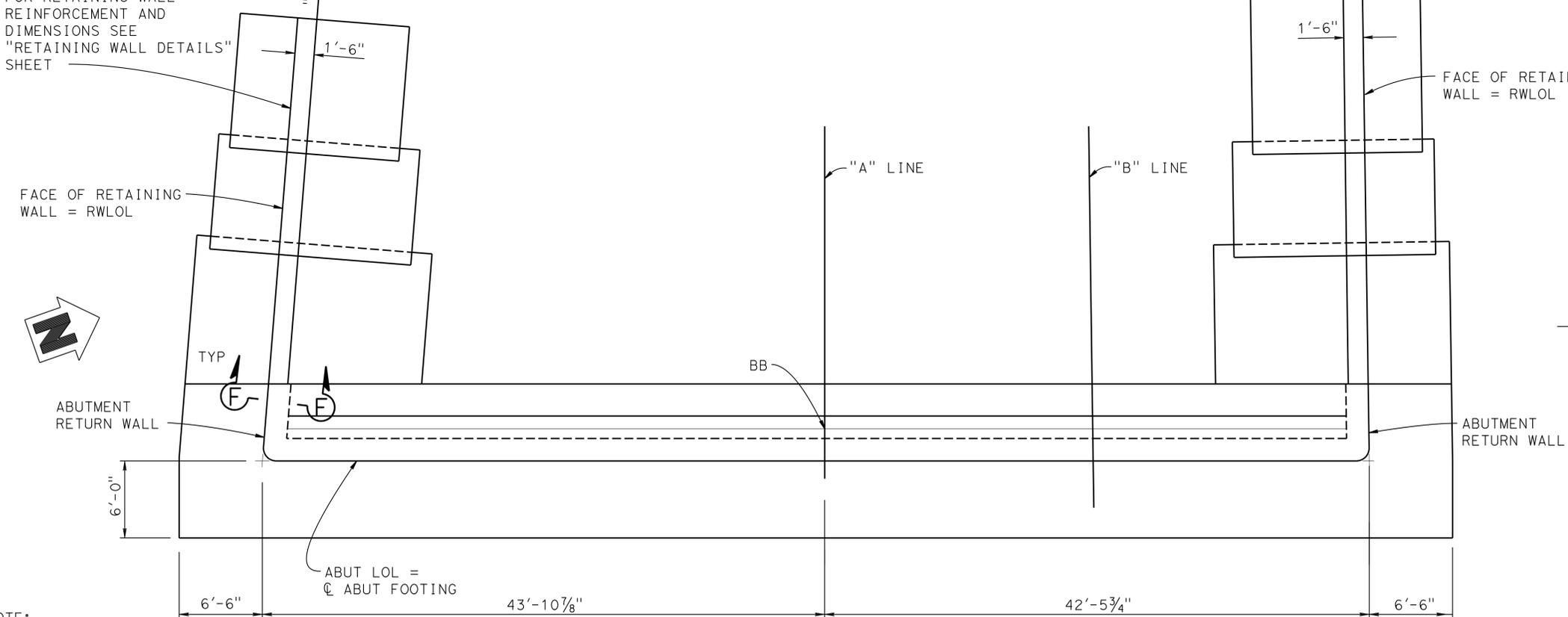


ELEVATION
3/16" = 1'-0"

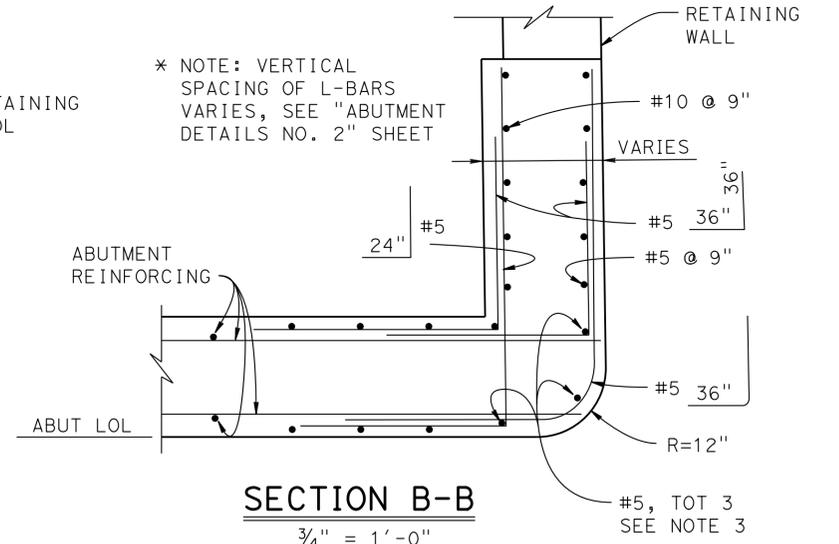


SECTION A-A
3/4" = 1'-0"

FOR RETAINING WALL REINFORCEMENT AND DIMENSIONS SEE "RETAINING WALL DETAILS" SHEET



PLAN
3/16" = 1'-0"



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

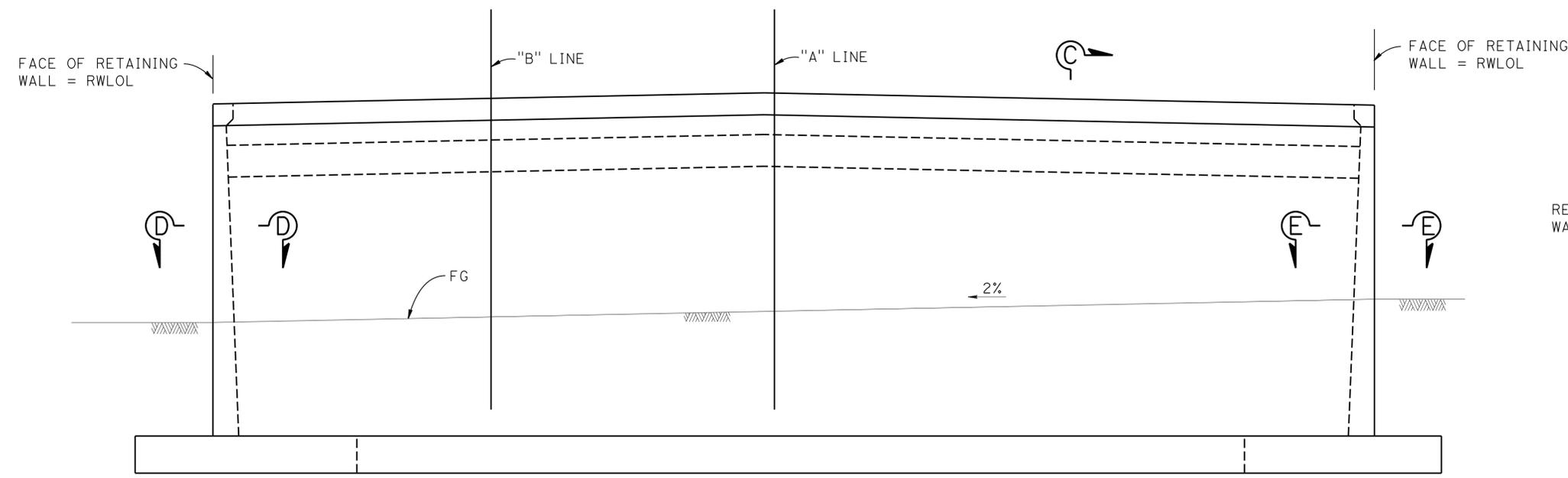
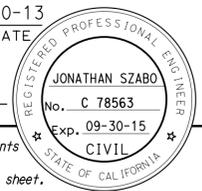
- NOTES:
1. For Structure Approach Slab details, see "STRUCTURE APPROACH TYPE N(30)" sheet
 2. For Section C-C, see "ABUTMENT DETAILS NO. 1" sheet.
 3. Extend reinforcing 6" into bottom slab.
 4. Barrier Rail not shown for clarity.
 5. For Section F-F at Abutment Return Wall, see "ABUTMENT DETAILS NO. 2" sheet.

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

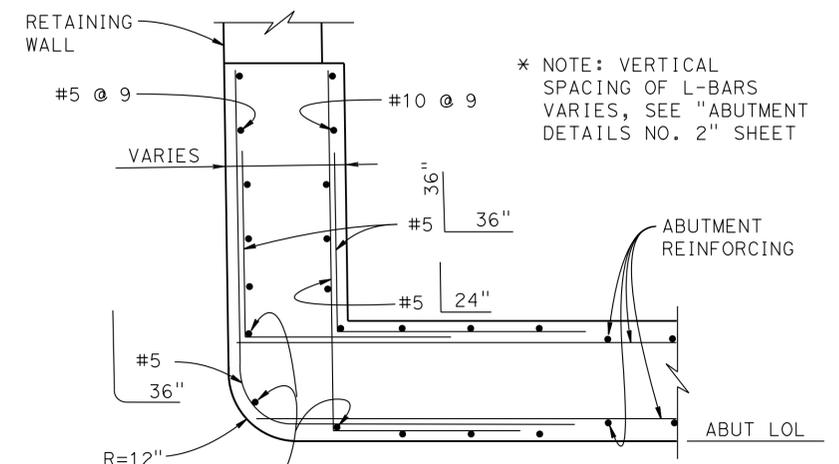
DESIGN	BY	J. Szabo	CHECKED	F. Chen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	54-1288	WILDLIFE UNDERCROSSING NO. 2				
	DETAILS	BY	R. Kirkland	CHECKED			F. Chen	POST MILE		13.9	ABUTMENT 1 LAYOUT		
	QUANTITIES	BY	J. Szabo	CHECKED			F. Chen	CONTRACT NO.:		08-3401U1			
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3589 PROJECT NUMBER & PHASE: 0800000609 1	CONTRACT NO.:	08-3401U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF	
										7-25-13	6-3-13	5	18

FILE => 54-1288-FR-01_105.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1126	1168
Jonathan Szabo			7-30-13	REGISTERED CIVIL ENGINEER DATE	
3-3-14			PLANS APPROVAL DATE		
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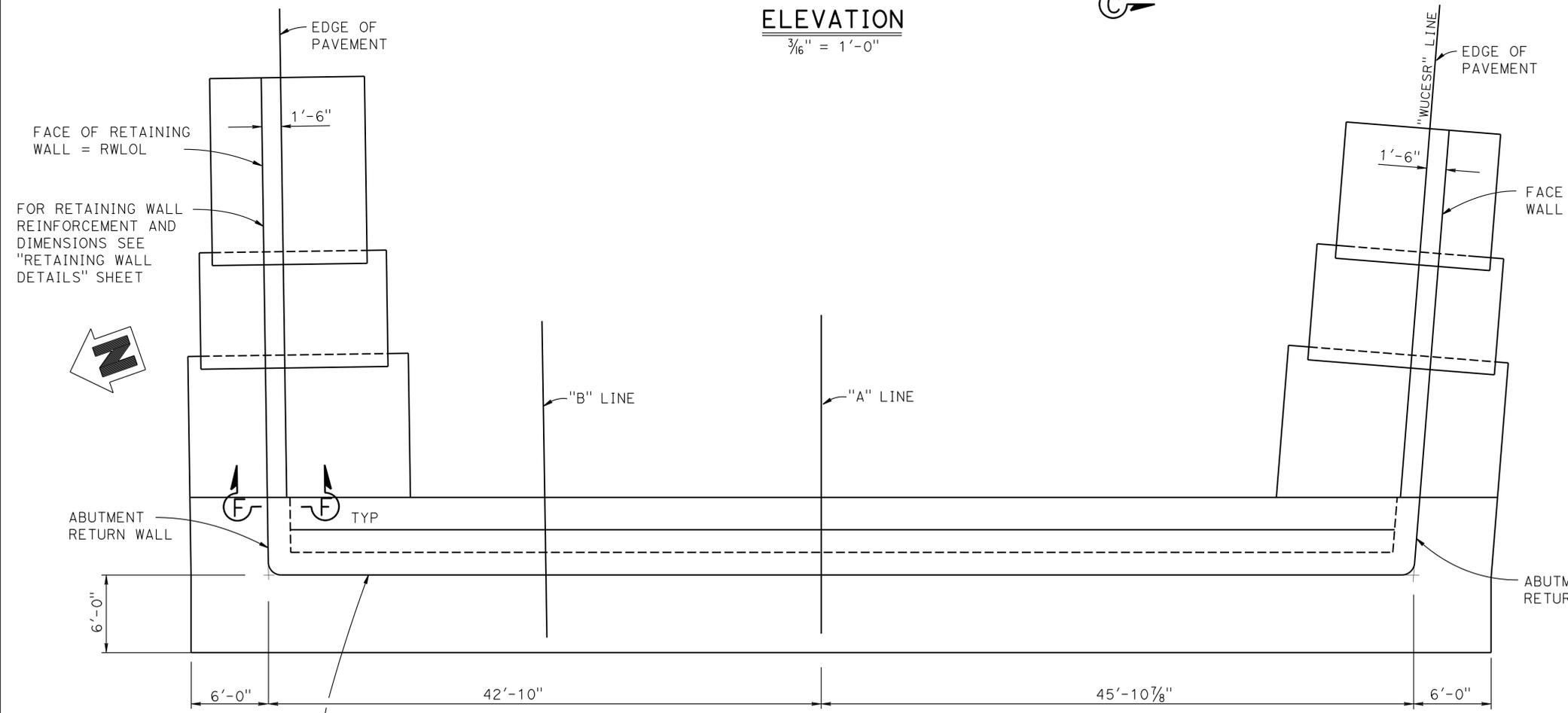


ELEVATION
3/16" = 1'-0"

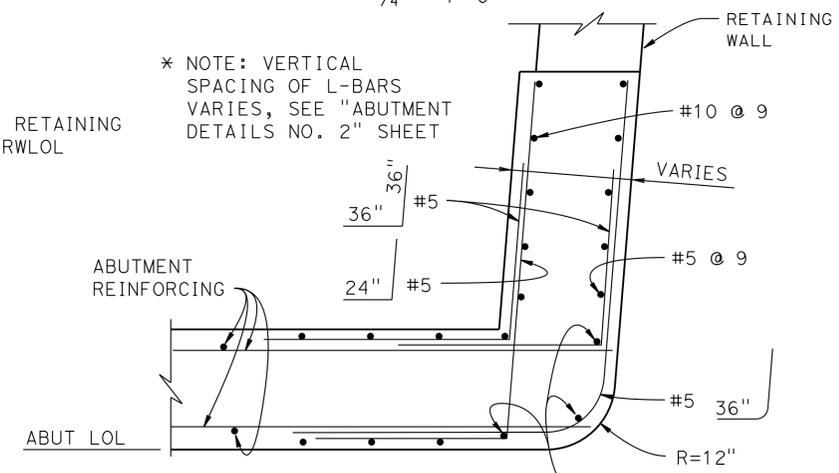


SECTION D-D
3/4" = 1'-0"

* NOTE: VERTICAL SPACING OF L-BARS VARIES, SEE "ABUTMENT DETAILS NO. 2" SHEET



PLAN
3/16" = 1'-0"



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

* NOTE: VERTICAL SPACING OF L-BARS VARIES, SEE "ABUTMENT DETAILS NO. 2" SHEET

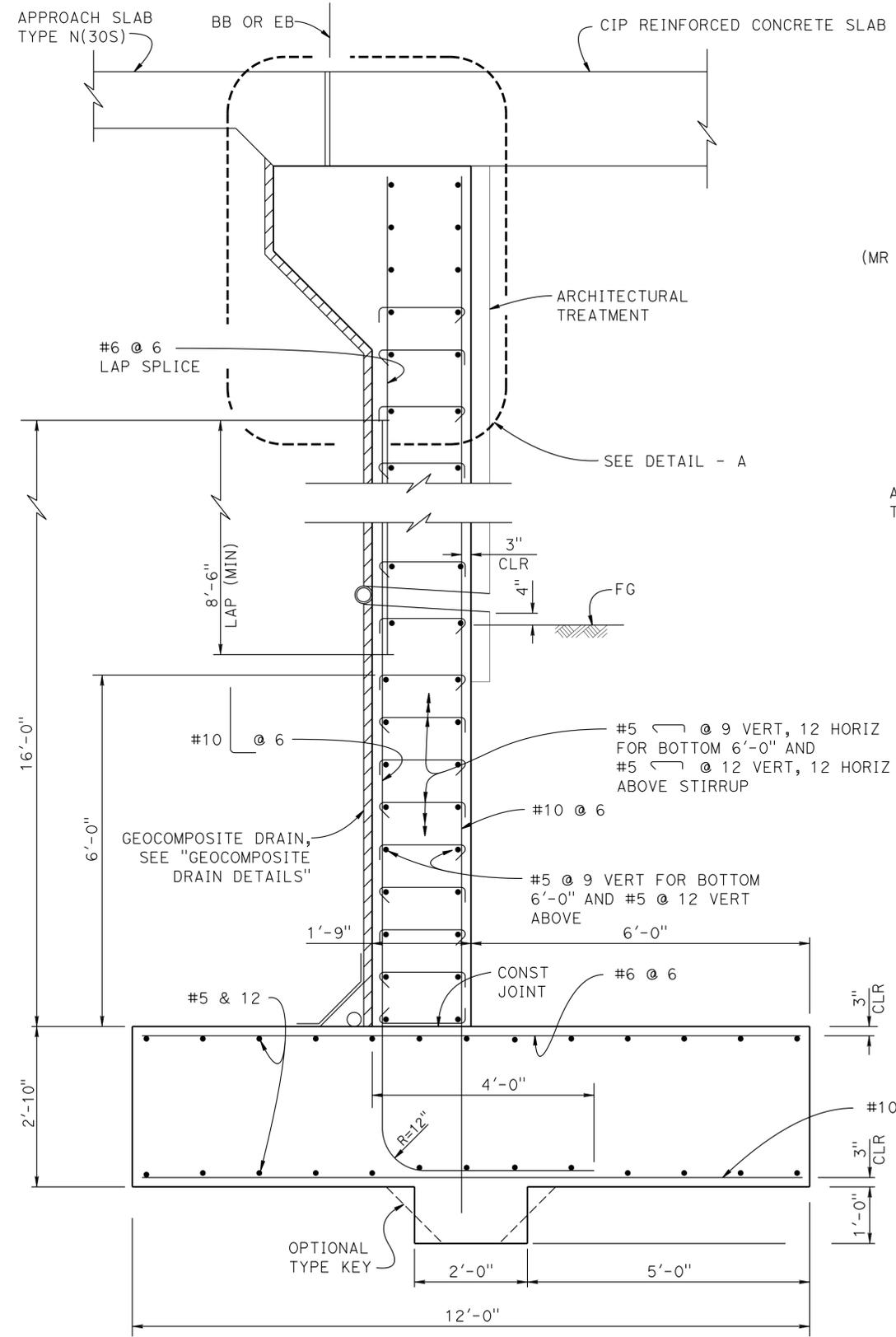
- NOTES:
1. For Structure Approach Slab details, see "STRUCTURE APPROACH TYPE N(30)" sheet
 2. For Section C-C, see "ABUTMENT DETAILS NO. 1" sheet.
 3. Extend reinforcing 6" into bottom slab.
 4. Barrier Rail not shown for clarity.
 5. For Section F-F at Abutment Return Wall, see "ABUTMENT DETAILS NO. 2" sheet.

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

ABUT LOL =
CL ABUT FOOTING

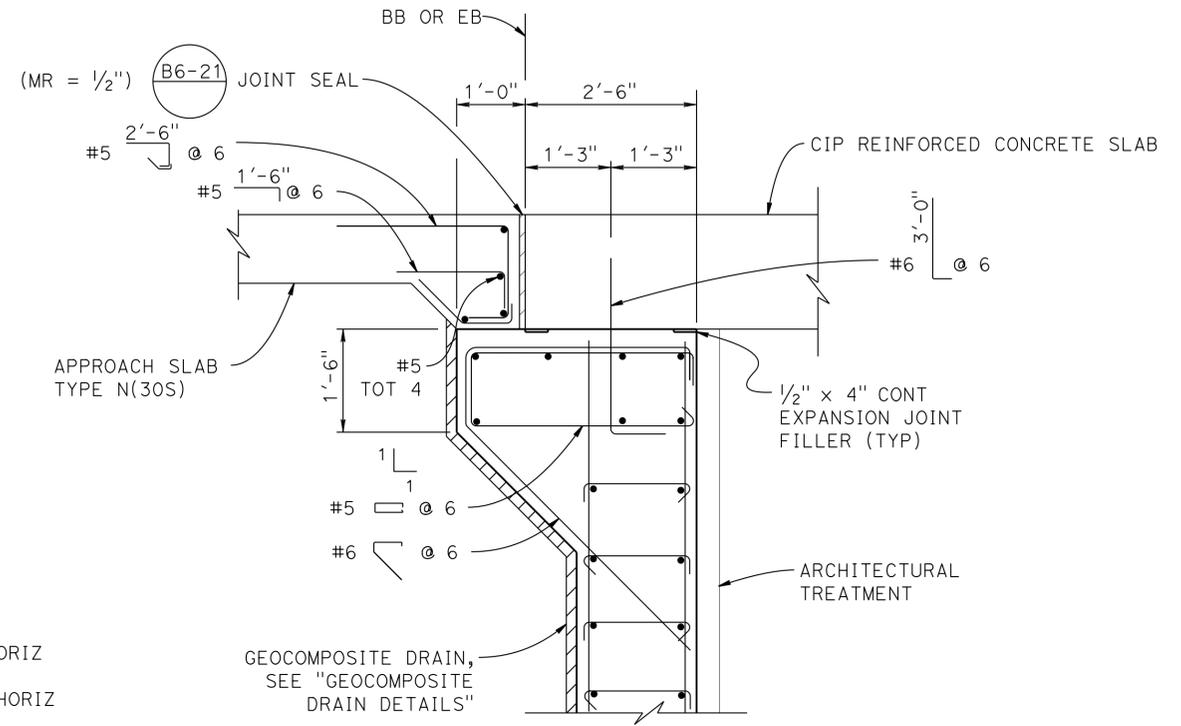
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY J. Szabo	CHECKED F. Chen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	54-1288	WILDLIFE UNDERCROSSING NO. 2 ABUTMENT 2 LAYOUT	
	DETAILS	BY R. Kirkland	CHECKED F. Chen			POST MILE	13.9		
	QUANTITIES	BY J. Szabo	CHECKED F. Chen			CONTRACT NO.:	08-3401U1		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3589	PROJECT NUMBER & PHASE: 0800000609 1	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	SHEET 6 OF 18

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1127	1168
Jonathan Szabo			7-30-13	REGISTERED CIVIL ENGINEER DATE	
3-3-14			PLANS APPROVAL DATE		
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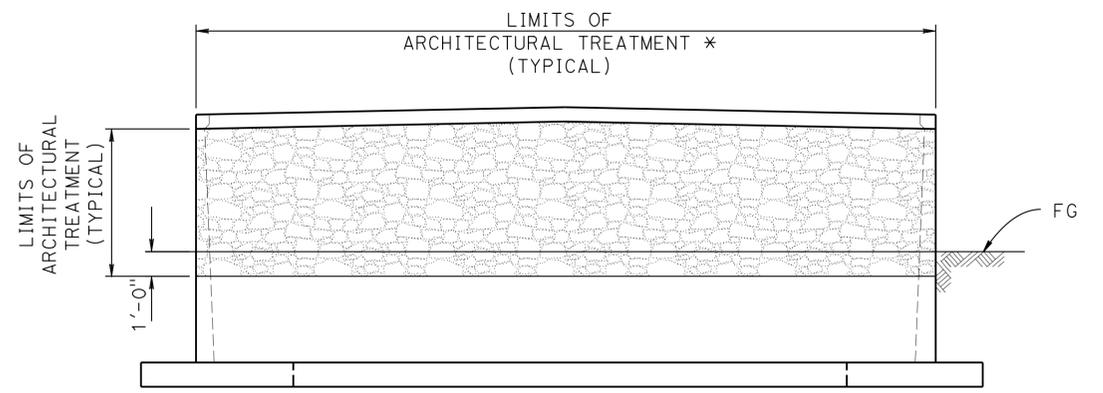


SECTION C-C
3/4" = 1'-0"

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



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



LIMITS OF ARCHITECTURAL TREATMENT
NO SCALE

* NOTE:
SEE "ARCHITECTURAL TREATMENT NO. 1" SHEET.

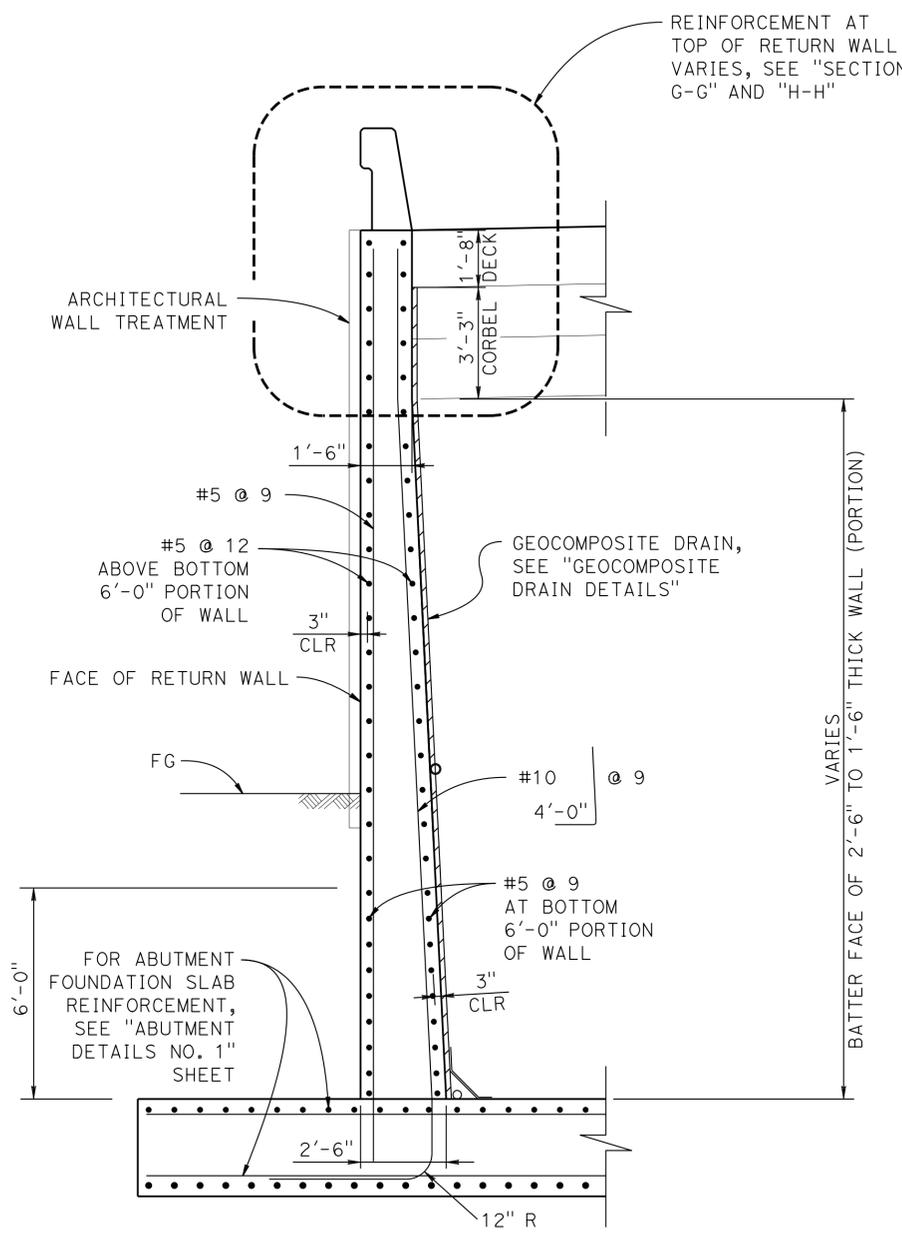
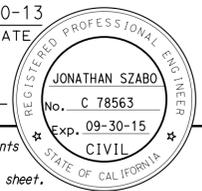
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY J. Szabo	CHECKED F. Chen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	54-1288	WILDLIFE UNDERCROSSING NO. 2 ABUTMENT DETAILS NO. 1
	DETAILS	BY R. Kirkland	CHECKED F. Chen			POST MILE	13.9	
	QUANTITIES	BY J. Szabo	CHECKED F. Chen			UNIT: 3589	PROJECT NUMBER & PHASE: 0800000609 1	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

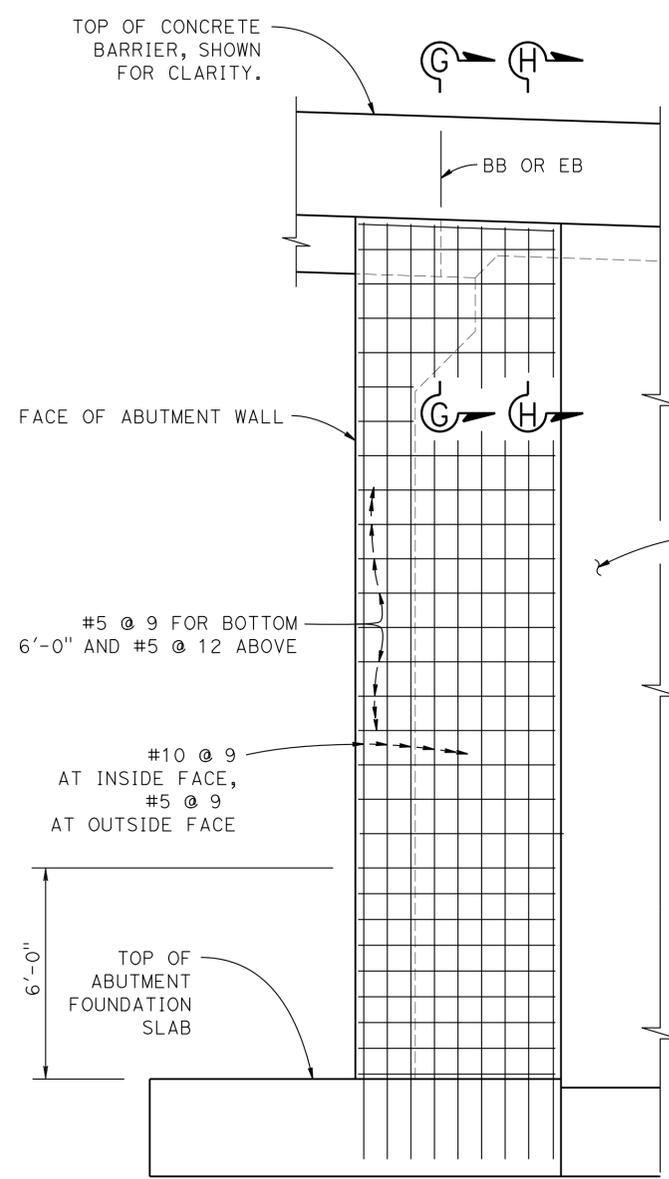
FILE => 54-1288-F-dt107.dgn

DATE PLOTTED => 07-MAR-2014 TIME PLOTTED => 12:26

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1128	1168
Jonathan Szabo			7-30-13	REGISTERED CIVIL ENGINEER DATE	
3-3-14			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

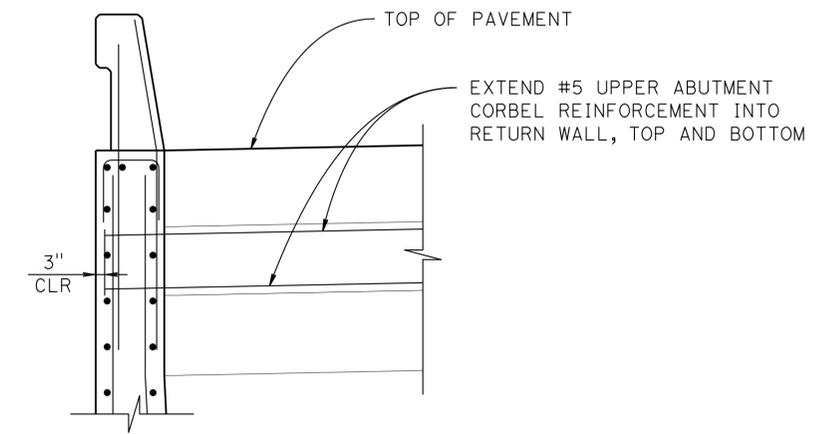


SECTION F-F
3/8" = 1'-0"



TYPICAL RETURN WALL ELEVATION AT ABUTMENT
3/8" = 1'-0"

NOTE: ABUTMENT 2 RIGHT RETURN WALL SHOWN.

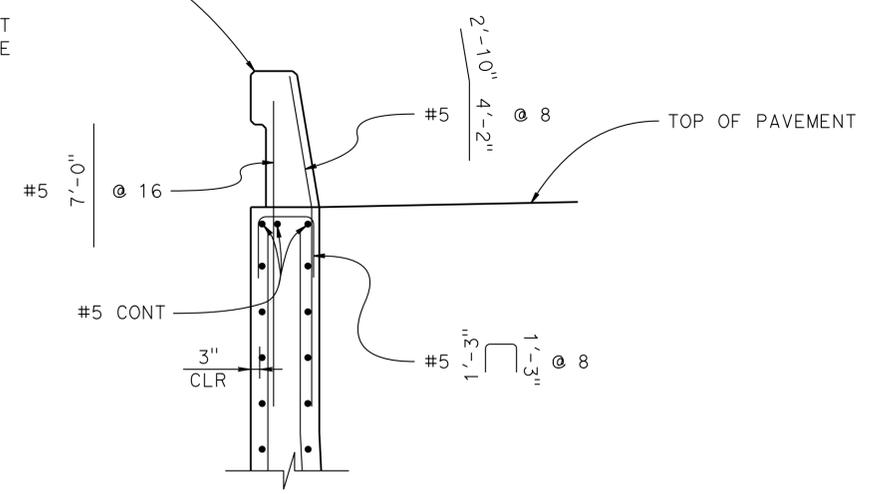


SECTION G-G
1/2" = 1'-0"

NOTE: SECTION G-G SIMILAR TO SECTION H-H, UNLESS SHOWN OTHERWISE.

RETAINING WALL TYPE 1 (CASE 1)
RSP (B3-1A)

CONCRETE BARRIER TYPE 736(MOD)
FOR REINFORCEMENT NOT SHOWN, SEE RSP (B11-56)

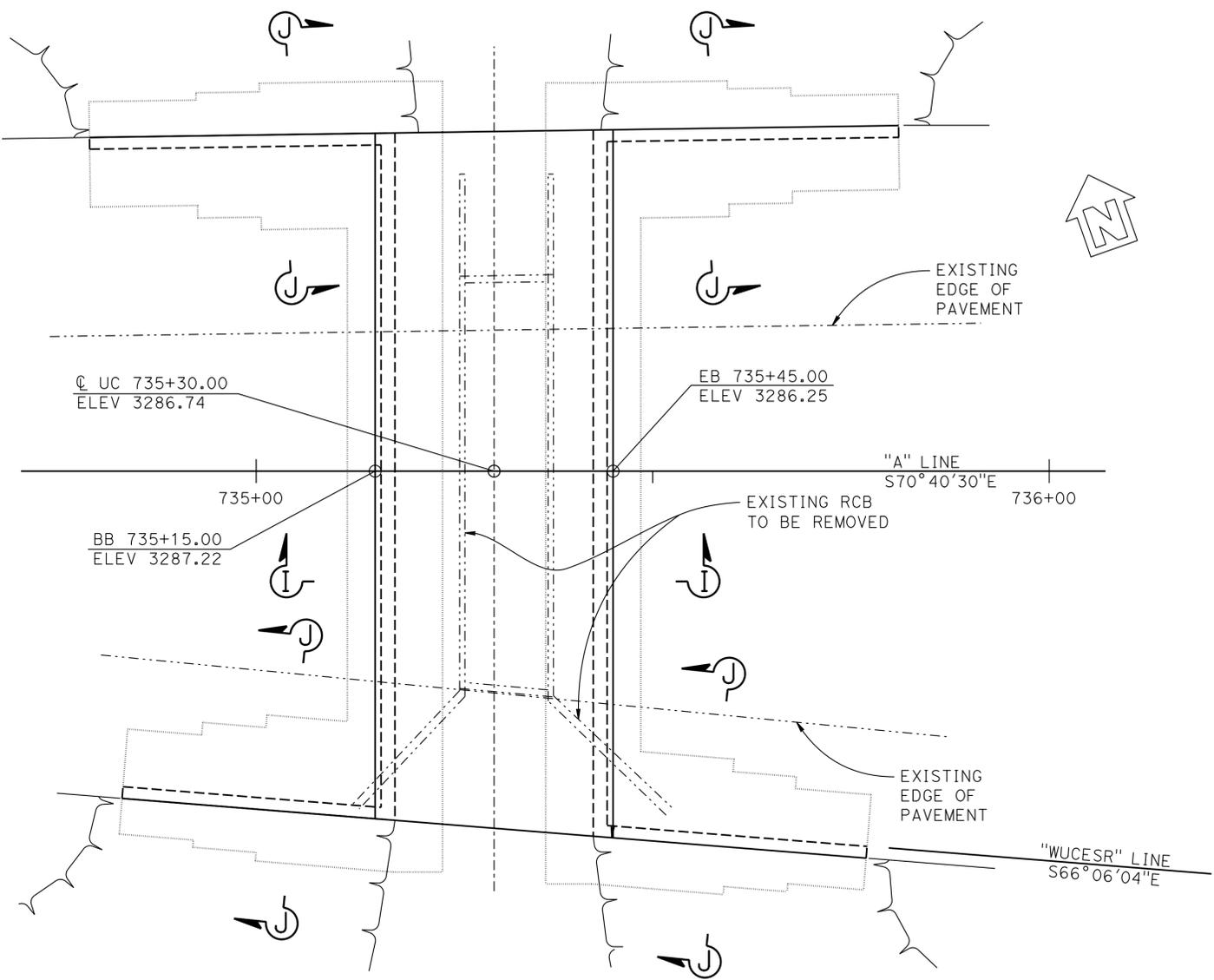
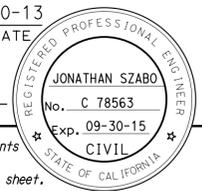


SECTION H-H
1/2" = 1'-0"

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

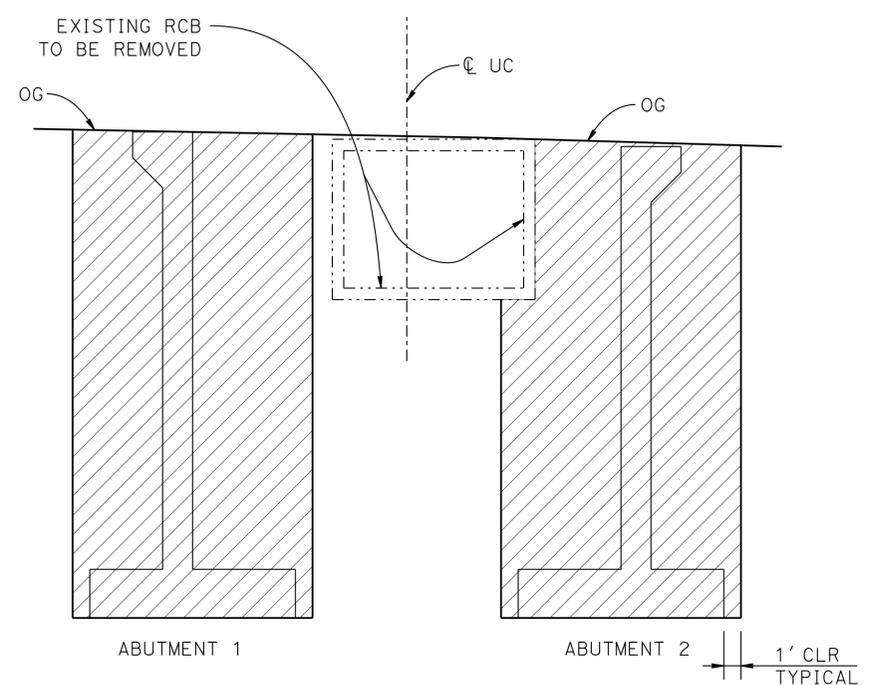
DESIGN	BY	J. Szabo	CHECKED	F. Chen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	54-1288	WILDLIFE UNDERCROSSING NO. 2			
	DETAILS	BY	R. Kirkland / J. Szabo	CHECKED			F. Chen	POST MILE		13.9	ABUTMENT DETAILS NO. 2	
	QUANTITIES	BY	J. Szabo	CHECKED			F. Chen	CONTRACT NO.:		08-3401U1		
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3589 PROJECT NUMBER & PHASE: 0800000609 1	CONTRACT NO.:	08-3401U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF
										07-MAR-2014	8	18

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1129	1168
Jonathan Szabo			7-30-13		
REGISTERED CIVIL ENGINEER			DATE		
3-3-14			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.					



EXCAVATION PLAN
1" = 10'

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



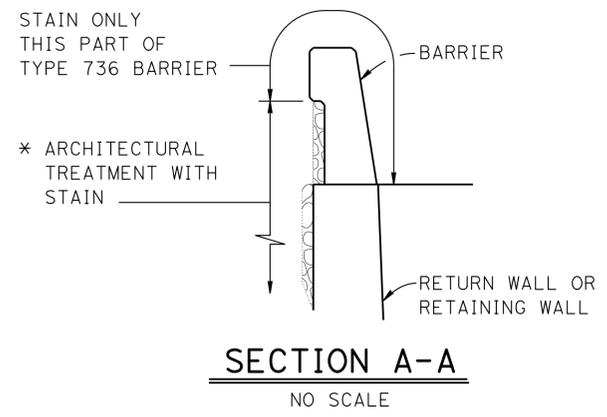
SECTION I-I
3/16" = 1'-0"

- LEGEND:**
- Indicates Type "D" Excavation
 - Indicates Existing Structure
 - Indicates New Structure
 - Indicates Outer Limits of New Foundation Slab below (shown for clarity)

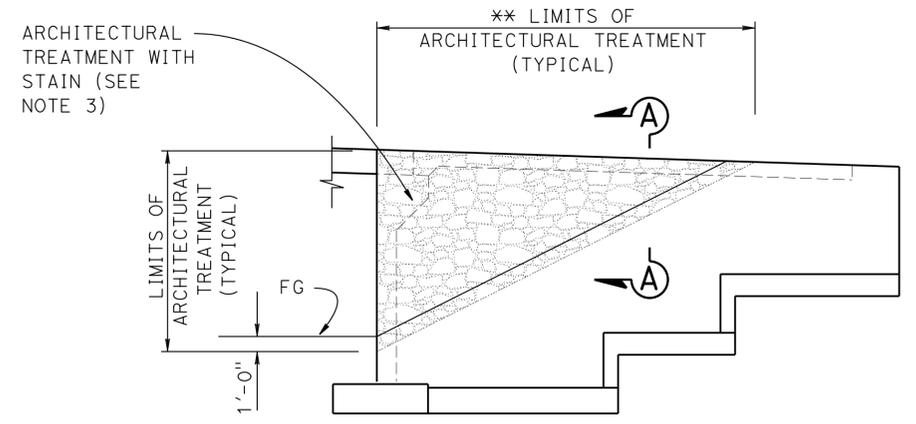
- NOTES:**
1. For backfill details, see Standard Plans sheet "A62C".
 2. For original grade, see "FOUNDATION PLAN" sheet.
 4. For "Section J-J" see "RETAINING WALLS DETAILS NO. 2" sheet.
 5. Excavation at Abutment Return Walls similar to "Section J-J", see "RETAINING WALLS DETAILS NO. 2" sheet.

DESIGN BY J. Szabo CHECKED F. Chen DETAILS BY J. Szabo CHECKED F. Chen QUANTITIES BY J. Szabo CHECKED F. Chen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO. 54-1288 POST MILE 13.9	WILDLIFE UNDERCROSSING NO. 2 ABUTMENT DETAILS NO. 3
	UNIT: 3589 PROJECT NUMBER & PHASE: 0800000609 1 CONTRACT NO.: 08-3401U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 7-26-13	SHEET OF 9 18
	STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	FILE => 54-1288-FR-gdt109.dgn	USERNAME => s124486 DATE PLOTTED => 07-MAR-2014 TIME PLOTTED => 12:26

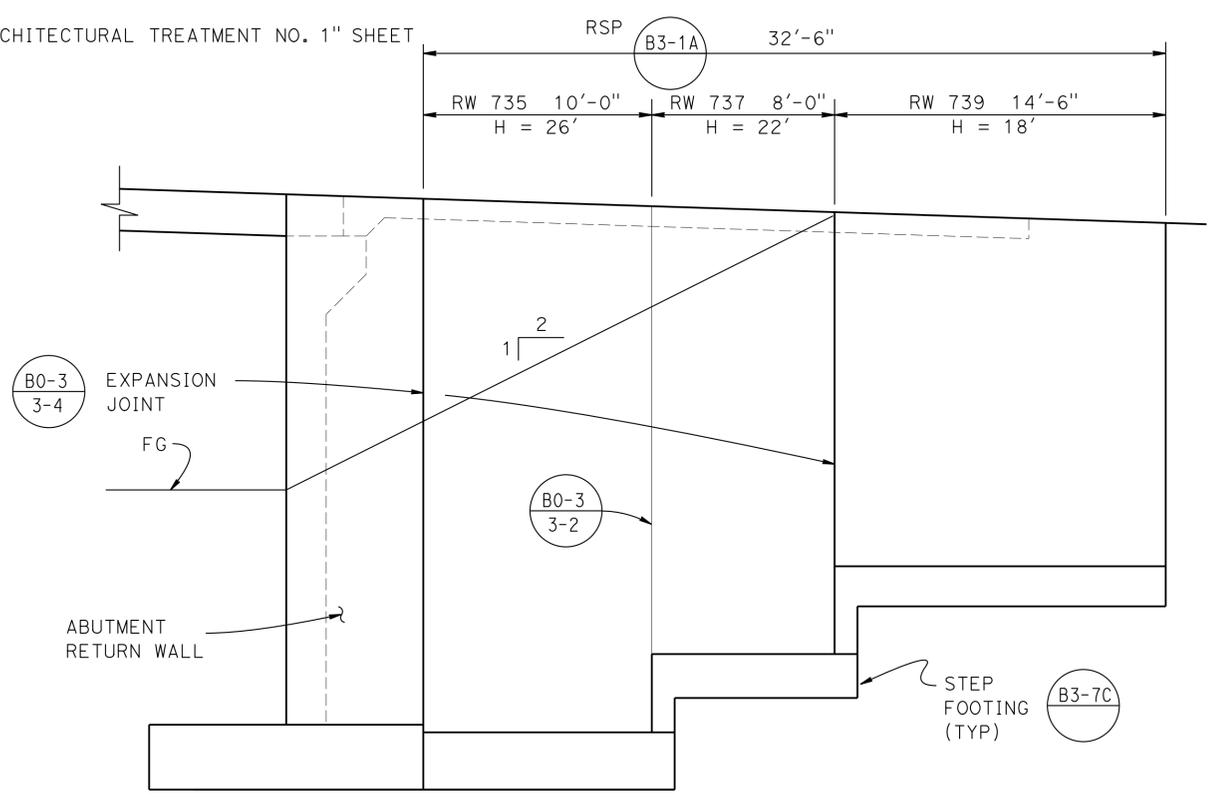
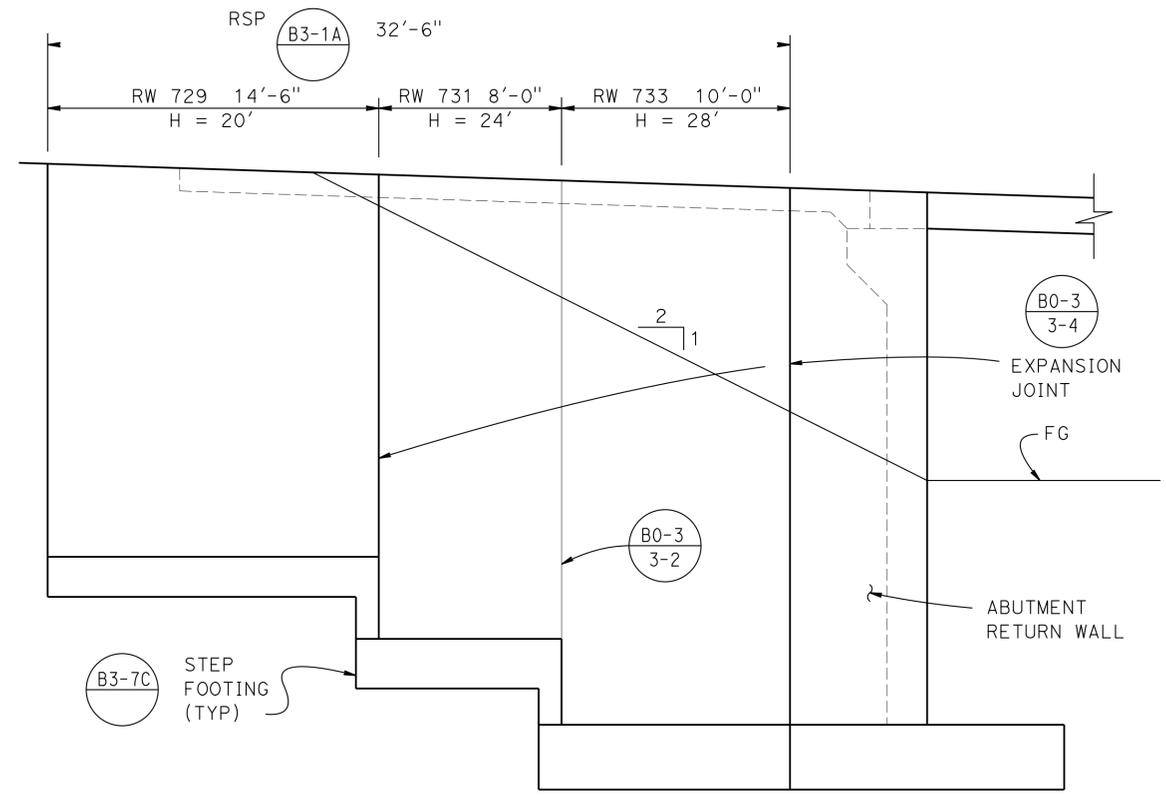
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4 2.3/R15.2	1130	1168
Jonathan Szabo			7-30-13	REGISTERED CIVIL ENGINEER DATE	
3-3-14			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



* NOTE:
SEE "ARCHITECTURAL TREATMENT NO. 2" SHEET



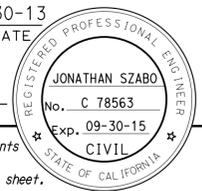
** NOTE:
SEE "ARCHITECTURAL TREATMENT NO. 1" SHEET

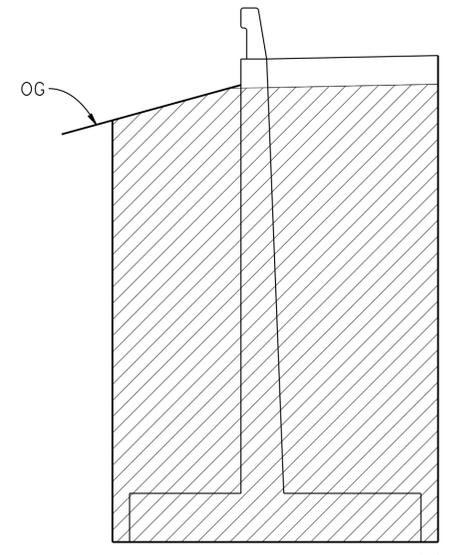


- NOTES:
1. For Right Retaining Walls, see "RETAINING WALL DETAILS NO. 2" sheet.
 2. Concrete Barrier Rail Type 736 not shown for clarity.
 3. "LIMITS OF ARCHITECTURAL TREATMENT" detail typical for left and right Retaining Walls (at Abut 1 and Abut 2).

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

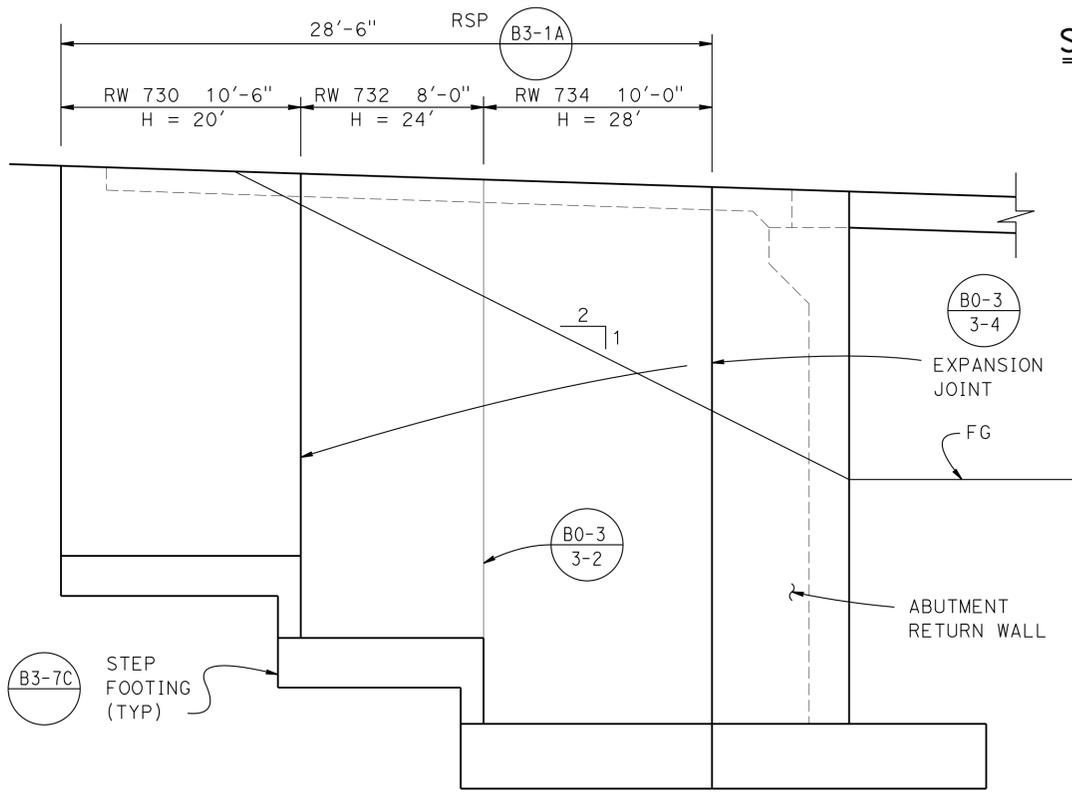
DESIGN	BY	J. Szabo	CHECKED	F. Chen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	54-1288	WILDLIFE UNDERCROSSING NO. 2 RETAINING WALL DETAILS NO. 1	
	DETAILS	BY	R. Kirkland	CHECKED			F. Chen	POST MILE		13.9
	QUANTITIES	BY	X. Szabo	CHECKED			F. Chen	UNIT: 3589 PROJECT NUMBER & PHASE: 0800000609 1		CONTRACT NO.: 08-3401U1
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	REVISION DATES	5-18-13 6-9-13 7-28-13 12-12-13	SHEET 10 OF 18	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1131	1168
 REGISTERED CIVIL ENGINEER			7-30-13 DATE		
3-3-14 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 Type "D" Excavation
 Indicates New Structure

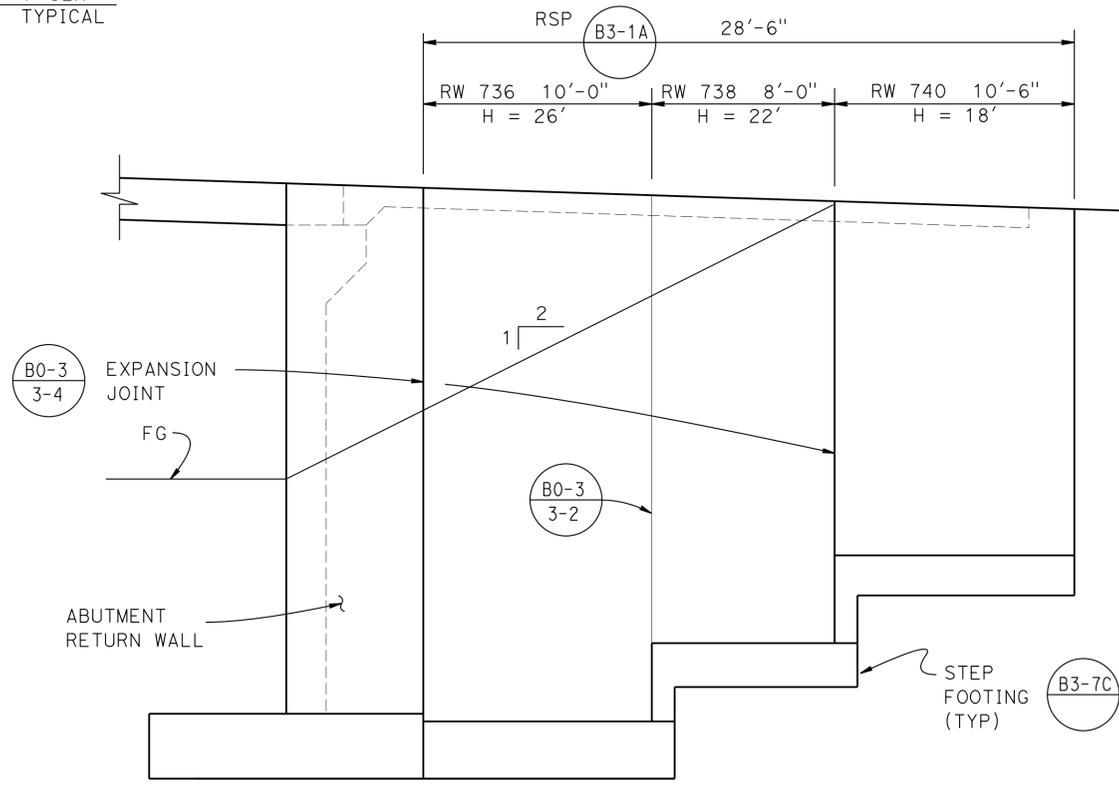
SECTION J-J
 $\frac{3}{16}'' = 1'-0''$
 1' CLR TYPICAL



**ELEVATION
 ABUMENT 1 RIGHT
 RETAINING WALL**
 $\frac{1}{4}'' = 1'-0''$

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

* Note: All horizontal dimensions measured along "WUCESR" line, see "General Plan" sheet

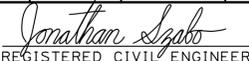


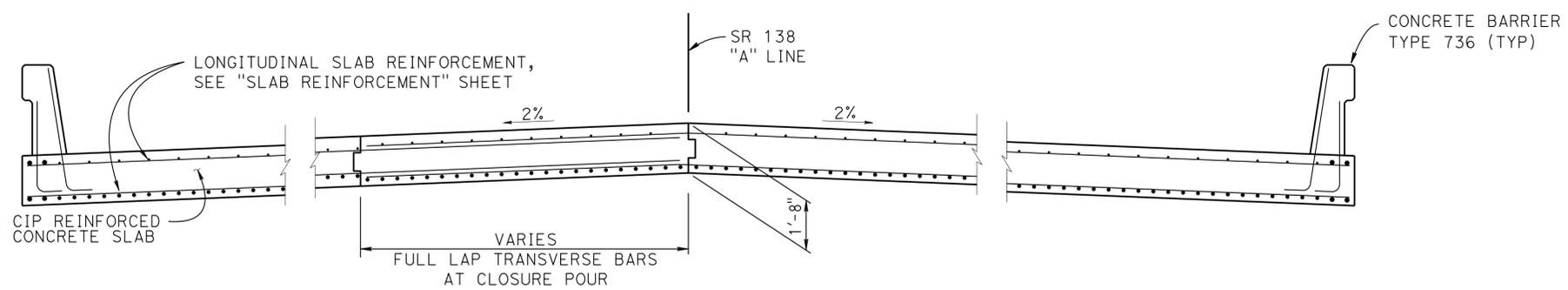
**ELEVATION
 ABUMENT 2 RIGHT
 RETAINING WALL**
 $\frac{1}{4}'' = 1'-0''$

- NOTES:
1. For Left Retaining Walls, see "RETAINING WALL DETAILS NO. 1" sheet.
 2. Concrete Barrier Rail Type 736 not shown for clarity.
 3. For location of Section J-J, see "ABUTMENT DETAILS NO. 3" sheet.

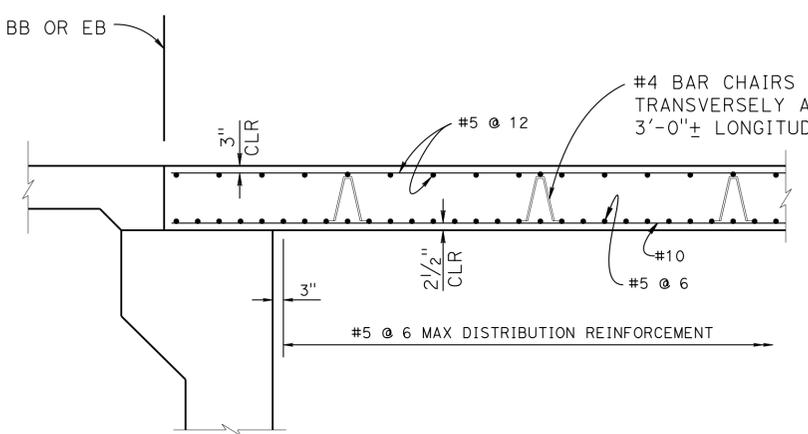
DESIGN BY J. Szabo CHECKED F. Chen		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	WILDLIFE UNDERCROSSING NO. 2 RETAINING WALL DETAILS NO. 2		
DETAILS BY R. Kirkland / J. Szabo CHECKED F. Chen				54-1288			
QUANTITIES BY J. Szabo CHECKED F. Chen				POST MILE 13.9			
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3589 PROJECT NUMBER & PHASE: 0800000609 1	CONTRACT NO.: 08-3401U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 5-13-13 6-24-13 7-26-13	SHEET 11 OF 18

USERNAME => s124486 DATE PLOTTED => 07-MAR-2014 TIME PLOTTED => 12:26

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1132	1168
 REGISTERED CIVIL ENGINEER			7-30-13	DATE	
3-3-14 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.					

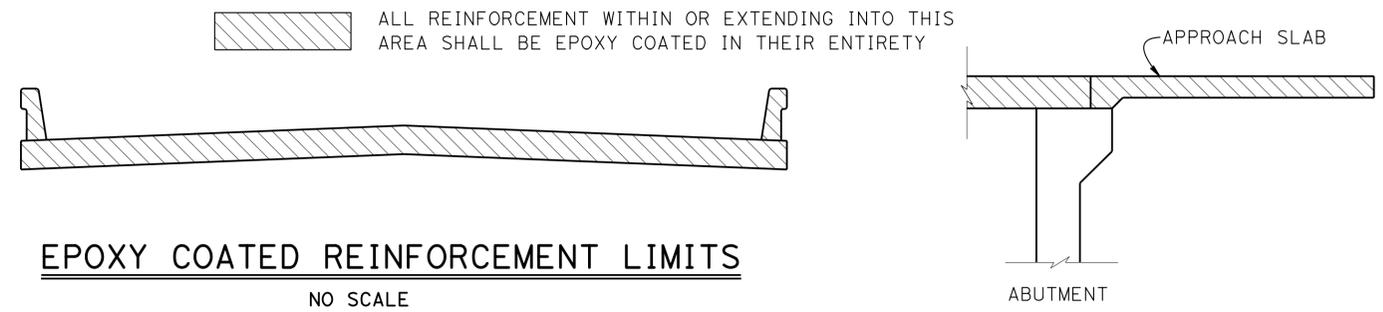


TYPICAL SECTION
3/8" = 1'-0"

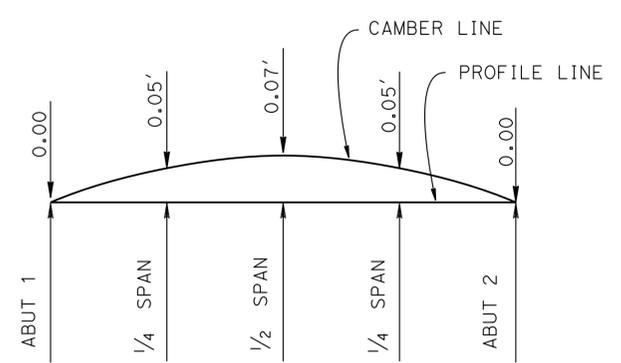


PART LONGITUDINAL SECTION
1/2" = 1'-0"

NOTE:
ALL TOP MAT REINFORCEMENT
EPOXY COATED



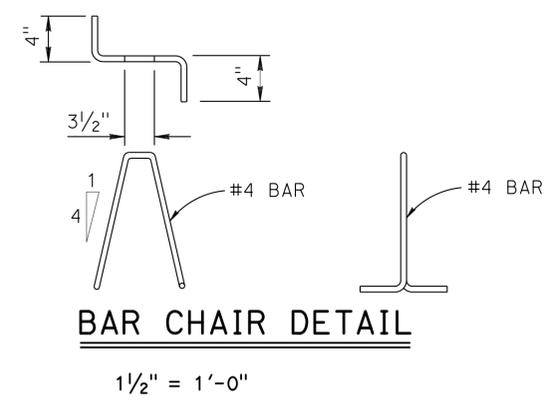
EPOXY COATED REINFORCEMENT LIMITS
NO SCALE



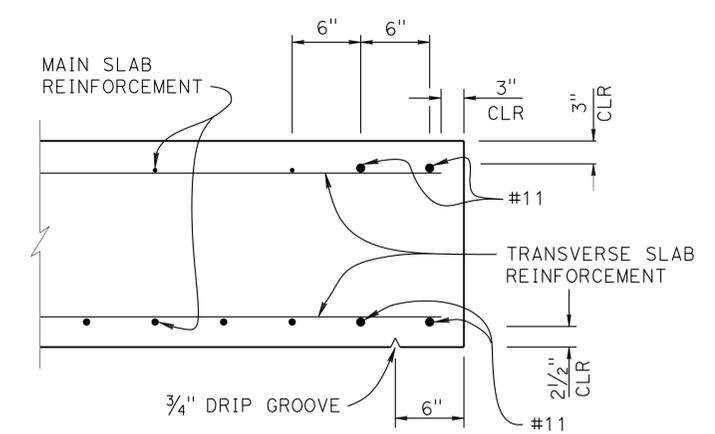
CAMBER DIAGRAM
NO SCALE

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

NOTE:
DOES NOT INCLUDE ALLOWANCE FOR FALSEWORK SETTLEMENT.



BAR CHAIR DETAIL
1/2" = 1'-0"

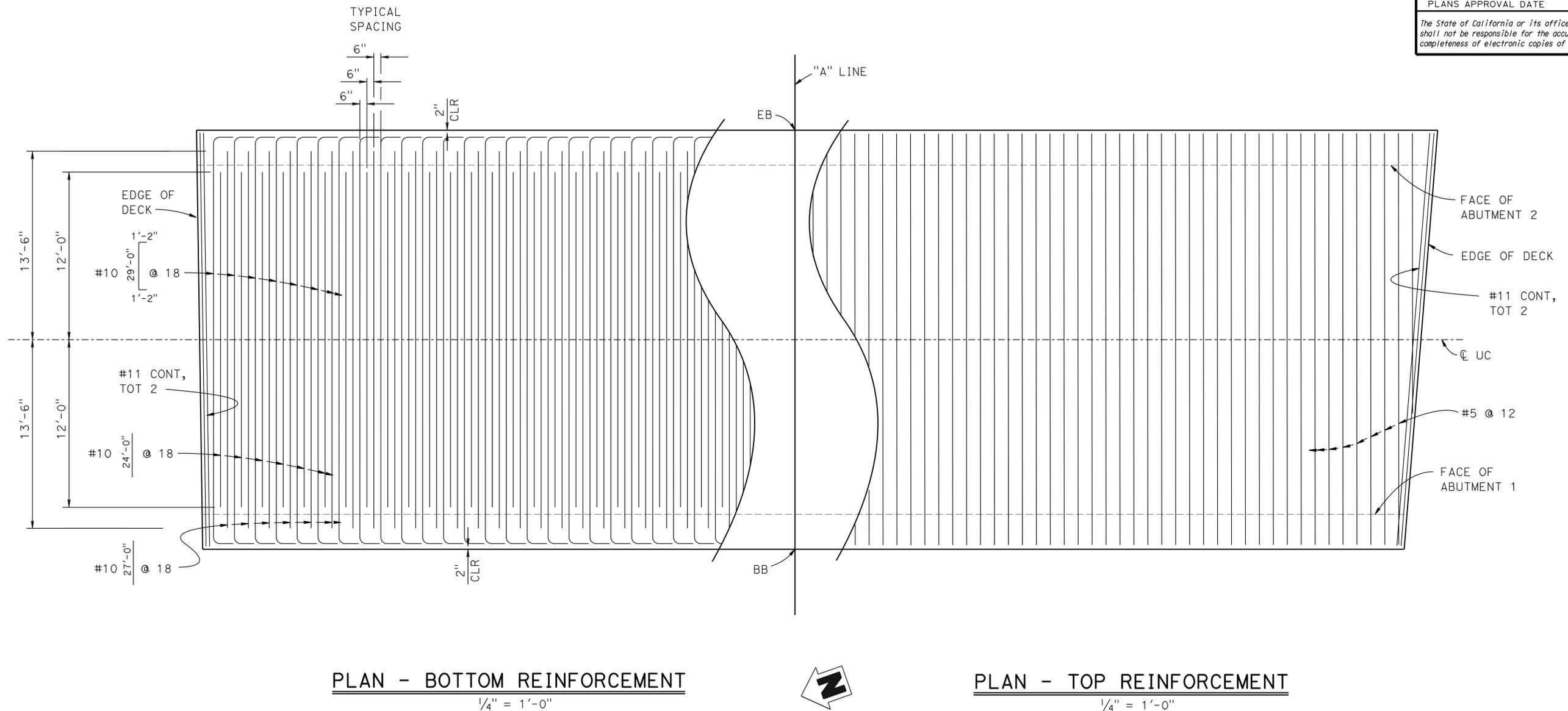


EDGE OF SLAB DETAILS
1/2" = 1'-0"

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY J. Szabo	CHECKED F. Chen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	54-1288	WILDLIFE UNDERCROSSING NO. 2 TYPICAL SECTION
	DETAILS	BY R. Kirkland	CHECKED F. Chen			POST MILE	13.9	
	QUANTITIES	BY J. Szabo	CHECKED F. Chen					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					UNIT: 3589	PROJECT NUMBER & PHASE: 0800000609 1	CONTRACT NO.: 08-3401U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES
						REVISION DATES	SHEET 12	OF 18

USERNAME => s124486 DATE PLOTTED => 07-MAR-2014 TIME PLOTTED => 12:26

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1133	1168
Jonathan Szabo			7-30-13		
REGISTERED CIVIL ENGINEER			DATE		
3-3-14			PLANS APPROVAL DATE		
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NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PLAN - BOTTOM REINFORCEMENT

1/4" = 1'-0"

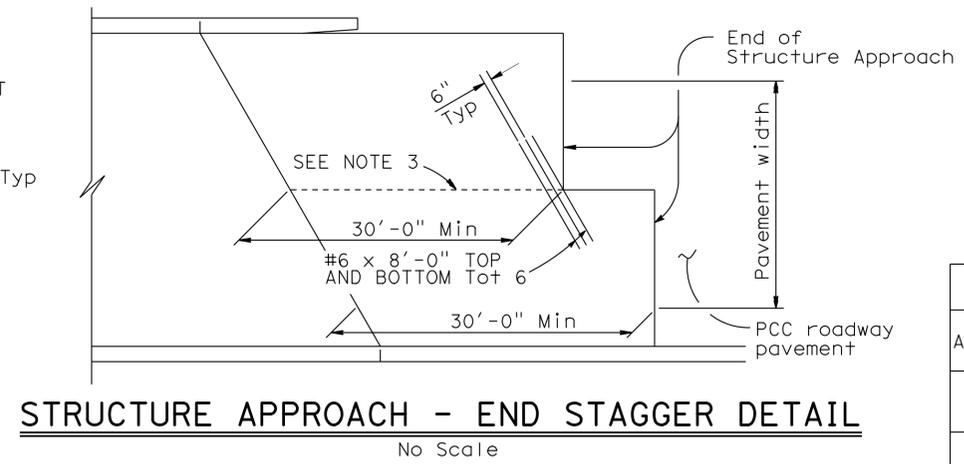
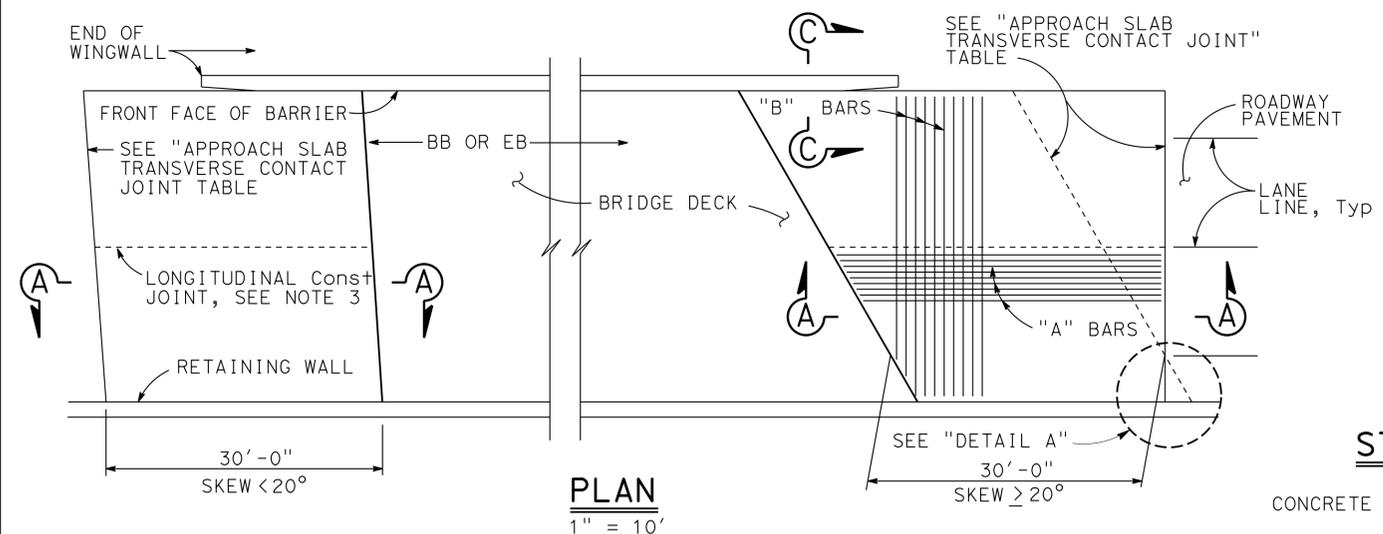
PLAN - TOP REINFORCEMENT

1/4" = 1'-0"

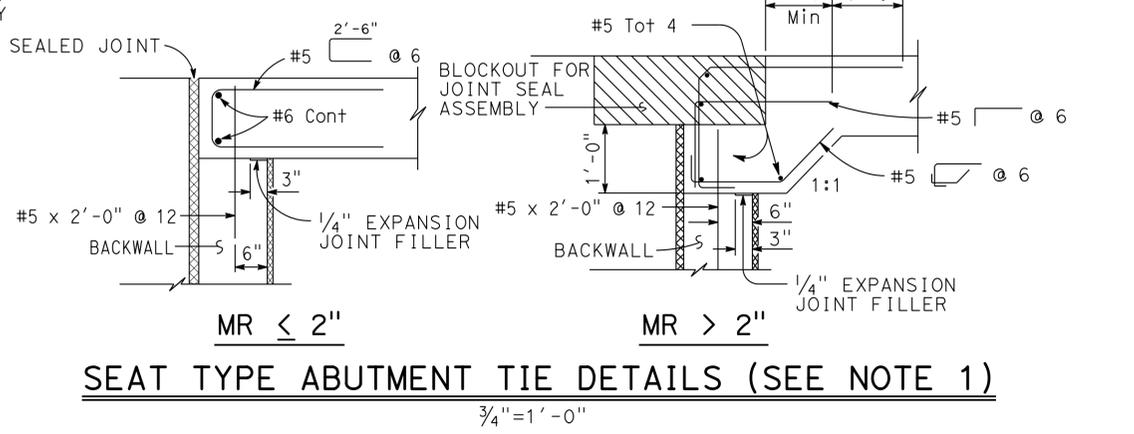
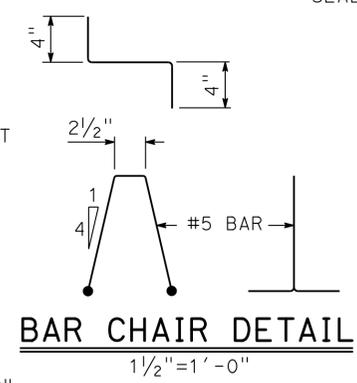
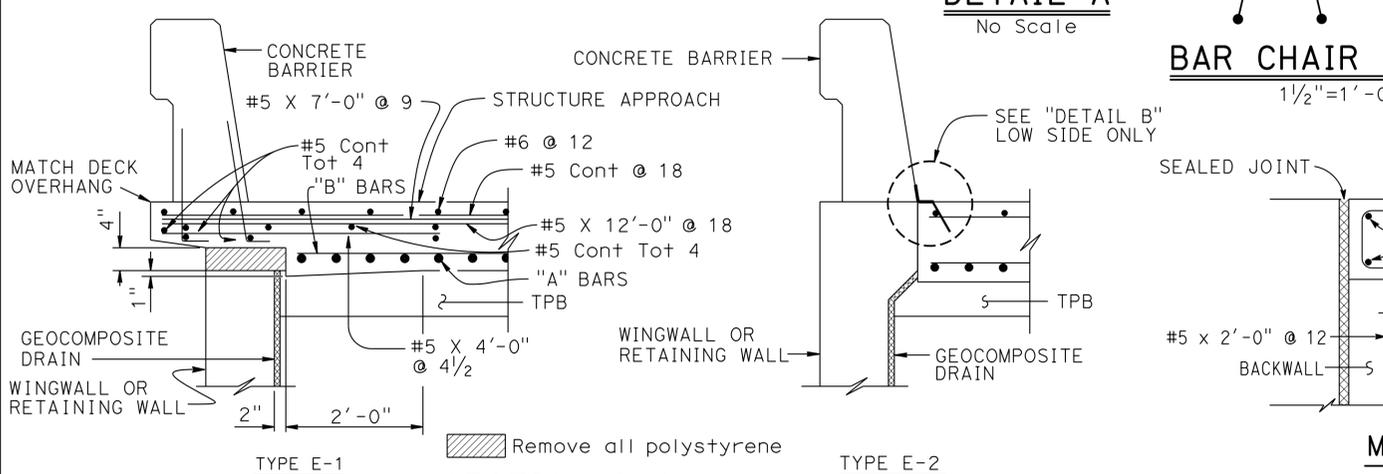
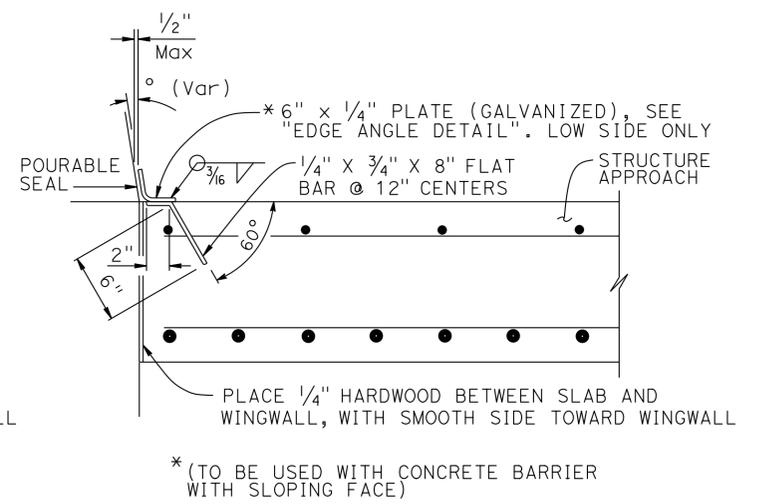
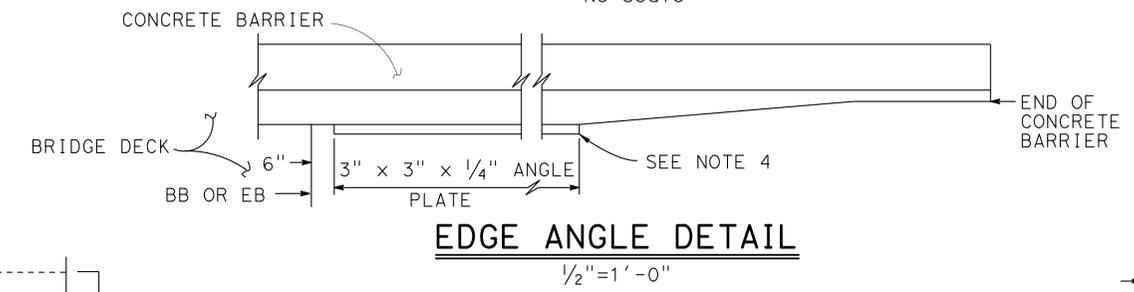
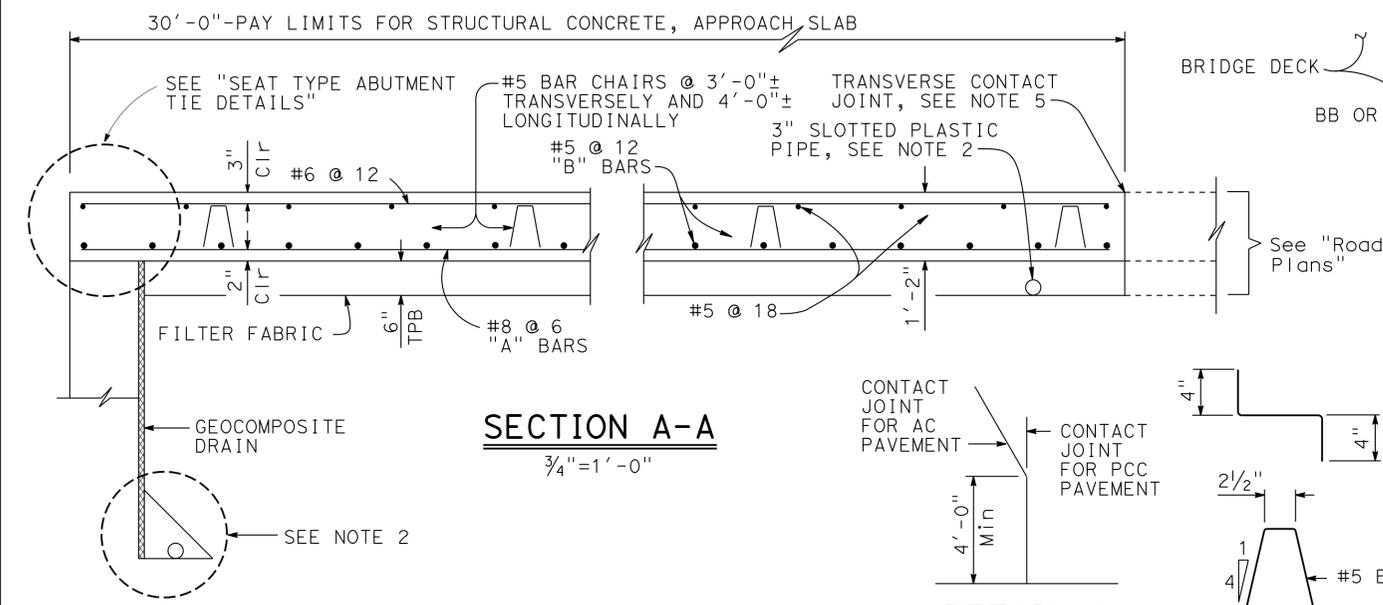
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY J. Szabo	CHECKED F. Chen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	54-1288	WILDLIFE UNDERCROSSING NO. 2 SLAB REINFORCEMENT		
	DETAILS	BY R. Kirkland	CHECKED F. Chen			POST MILE	13.9			
	QUANTITIES	BY J. Szabo	CHECKED F. Chen							
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3589 PROJECT NUMBER & PHASE: 0800000609 1		CONTRACT NO.: 08-3401U1		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 5-14-13	SHEET 13 OF 18

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBD	2,138	6.2/6.4, 2.3/R15.2	1134	1168

REGISTERED CIVIL ENGINEER DATE 8/26/13
 3-3-14 PLANS APPROVAL DATE
 JEFF SIMS No. C 46471 Exp. 6/30/15 CIVIL
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APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	PARALLEL TO FACE OF PN	PARALLEL TO FACE OF PN
20° - 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER LINES 24' TO 36' APART
> 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER AT EACH LANE LINE



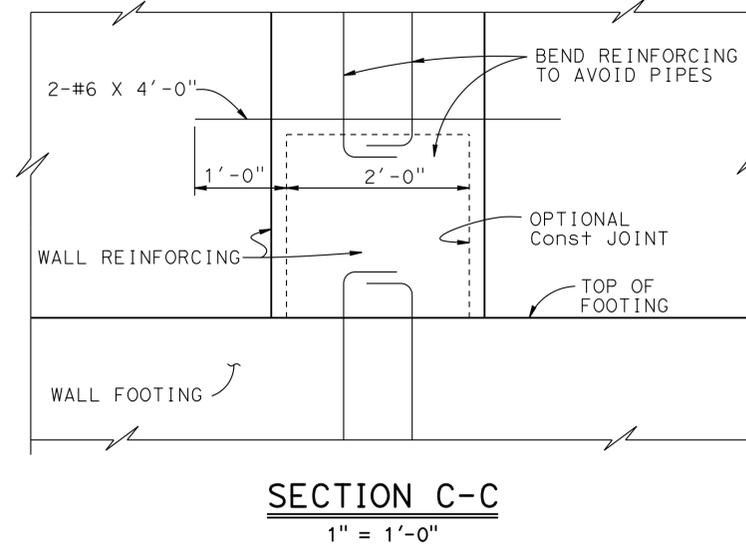
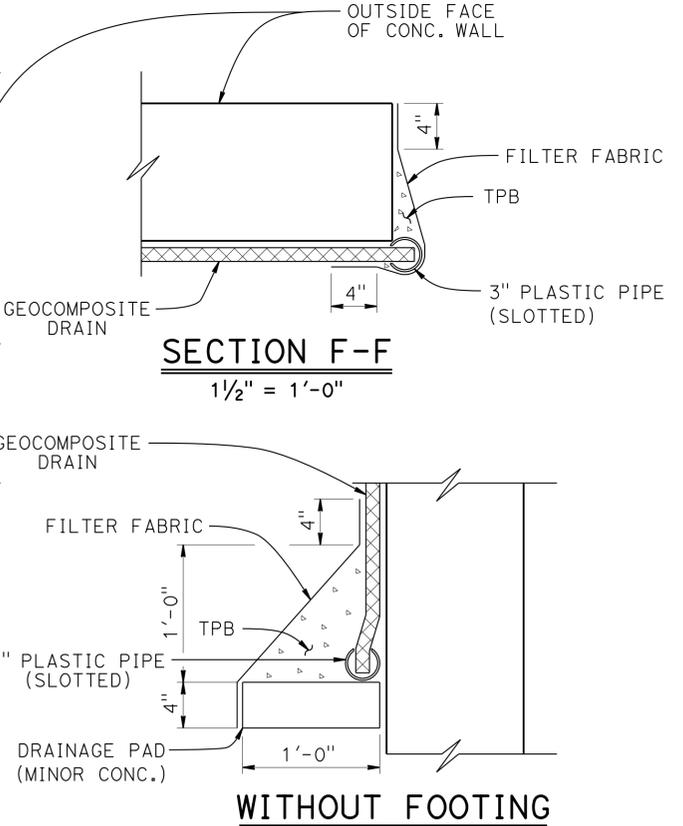
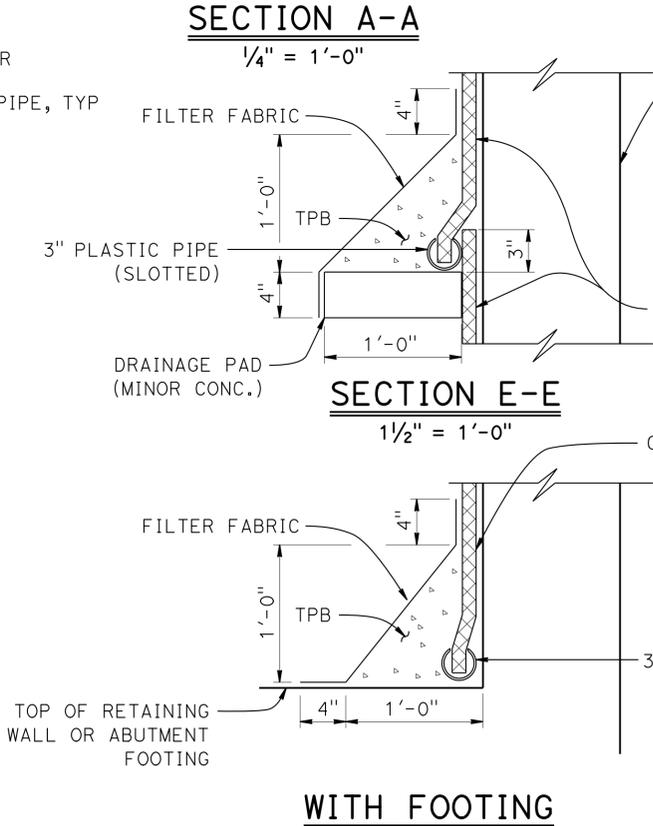
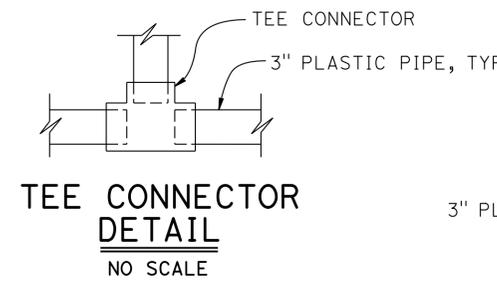
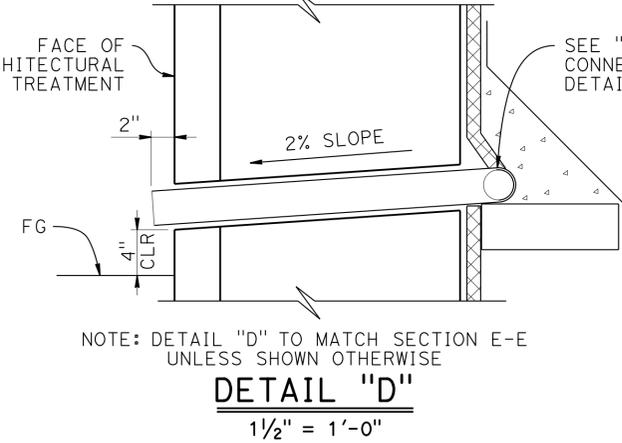
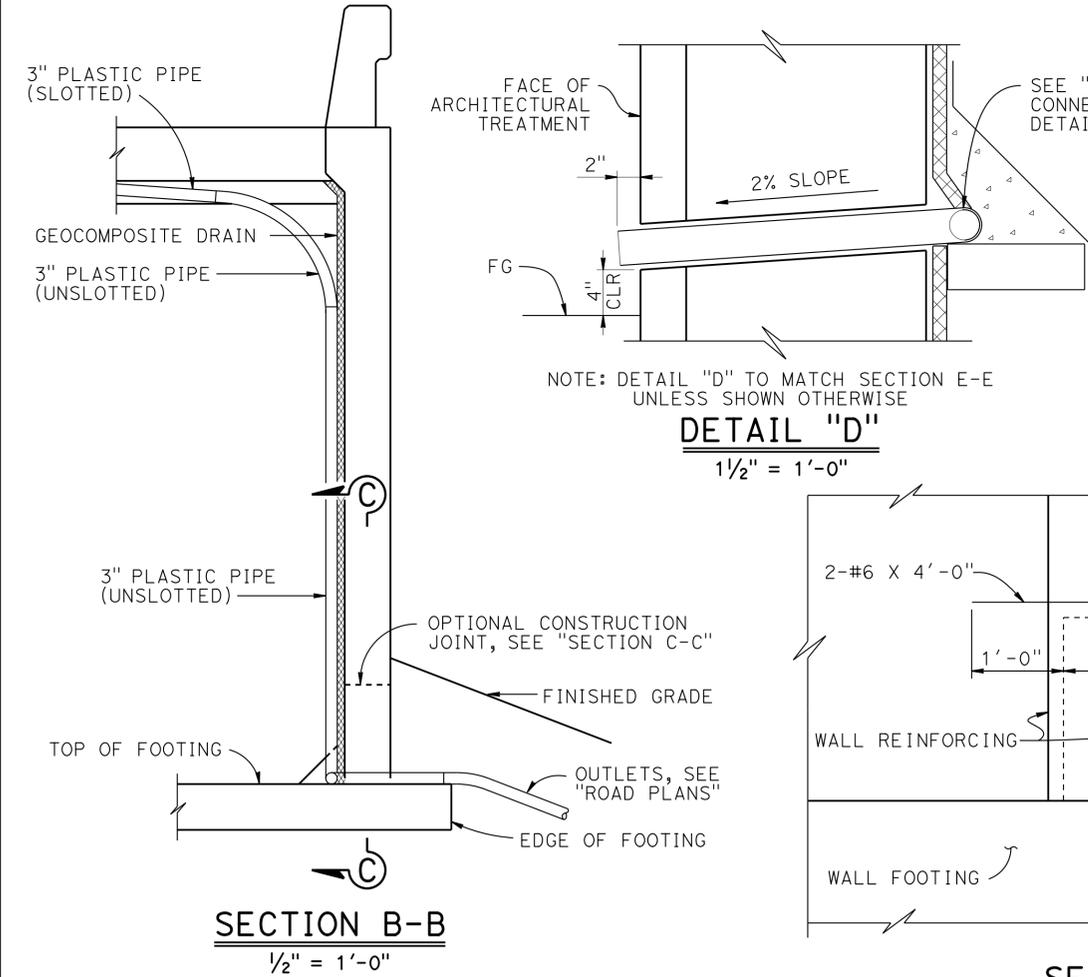
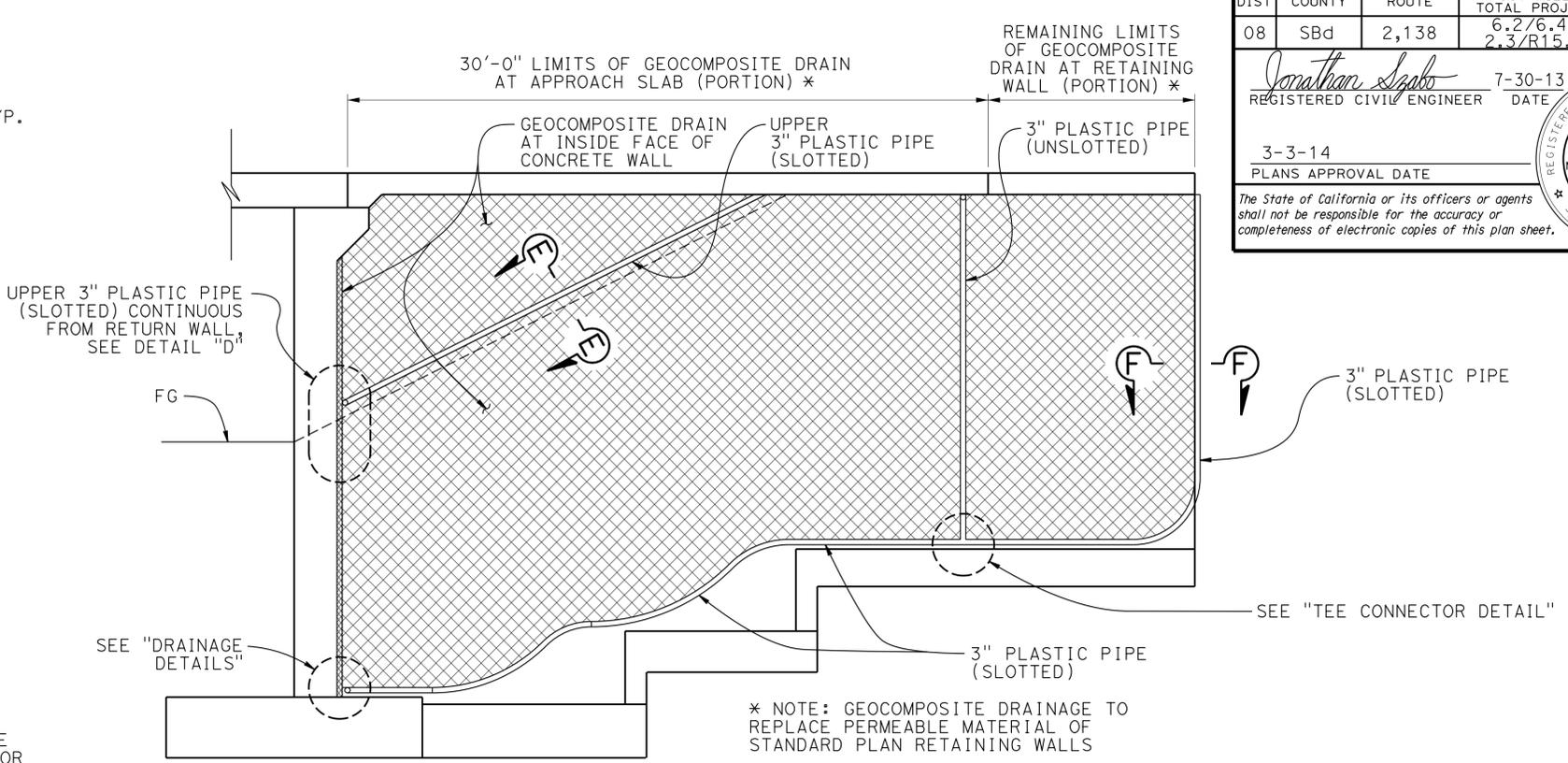
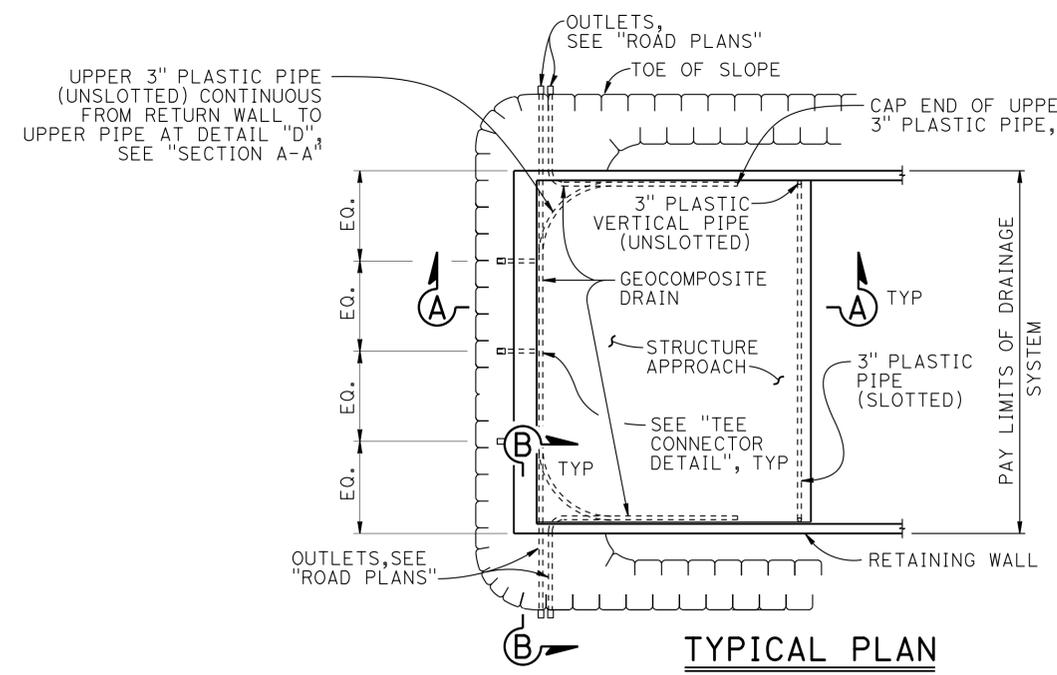
- NOTES:**
- For details not shown, see Structure Plans. For MR < 2, adjust bar reinforcement to clear a sawcut for sealed joint, when required.
 - For drainage details, see "STRUCTURE APPROACH DRAINAGE DETAILS" sheet.
 - Longitudinal construction joints, when permitted by the Engineer, shall be located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

REVISED STANDARD DRAWING
 FILE NO. **xs3-120**
 APPROVAL DATE July 2011

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 BRIDGE NO. 54-1288
 POST MILE 13.9

WILDLIFE UNDERCROSSING NO. 2
STRUCTURE APPROACH TYPE N(30S)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1135	1168
Jonathan Szabo			7-30-13	REGISTERED CIVIL ENGINEER DATE	
3-3-14			PLANS APPROVAL DATE		
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NOTE: BENDS AND JUNCTIONS IN 3" PLASTIC PIPE ARE 30" RADIUS MINIMUM

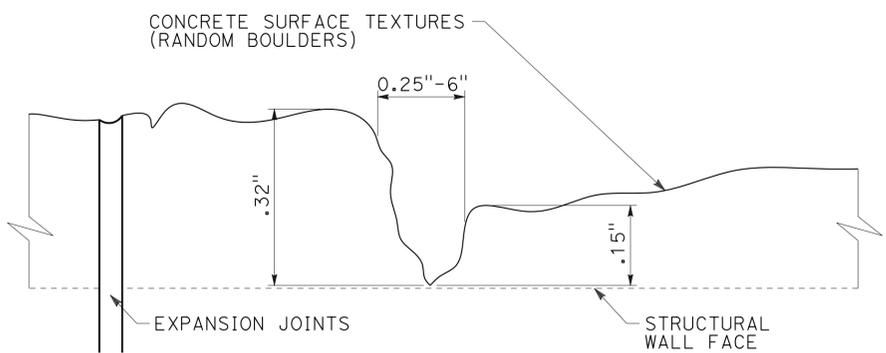
* NOTE: GEOCOMPOSITE DRAINAGE TO REPLACE PERMEABLE MATERIAL OF STANDARD PLAN RETAINING WALLS

DESIGN	BY J. Szabo	CHECKED F. Chen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	WILDLIFE UNDERCROSSING NO. 2
DETAILS	BY J. Szabo	CHECKED F. Chen			54-1288	
QUANTITIES	BY J. Szabo	CHECKED F. Chen			POST MILE 13.9	
				PROJECT NUMBER & PHASE: 0800000609 1		CONTRACT NO.: 08-3401U1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1136	1168

Matthew DeWitt
 LICENSED LANDSCAPE ARCHITECT
 3-3-14
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

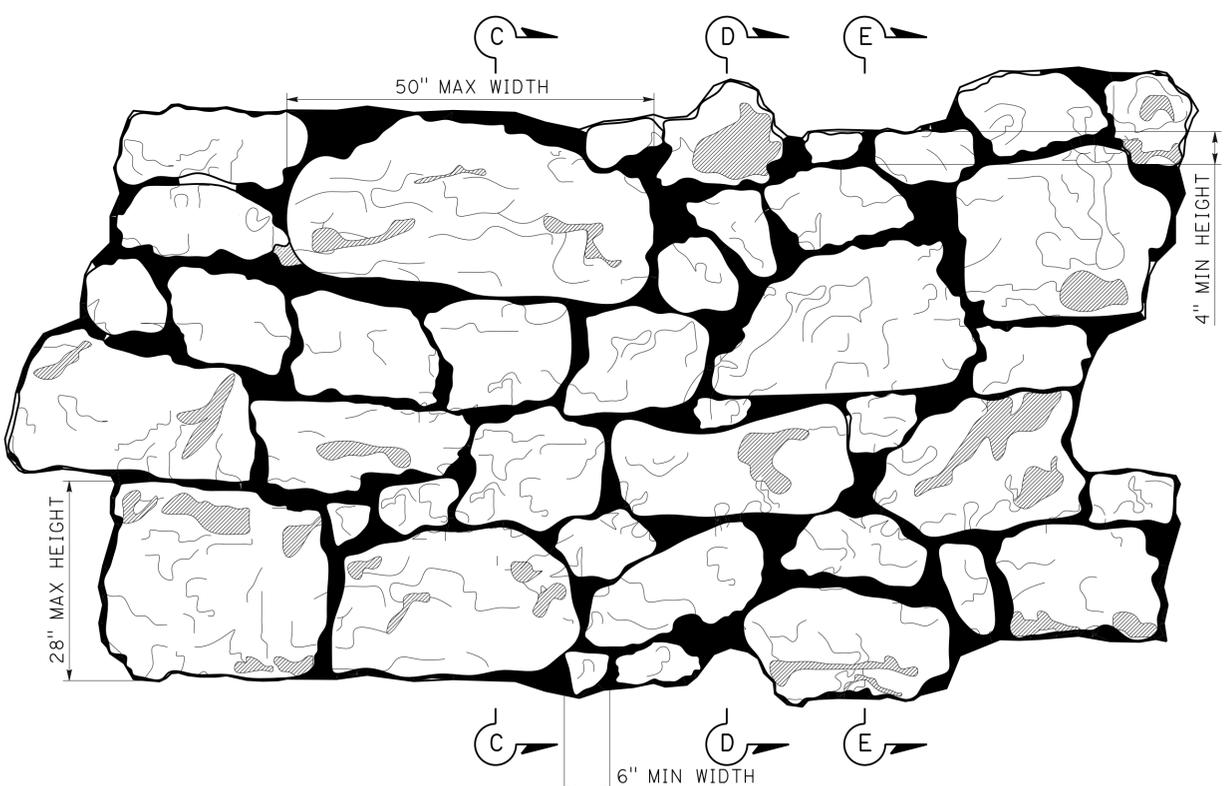
Matthew DeWitt
 LICENSED LANDSCAPE ARCHITECT
 SIGNATURE
 10/31/2013
 REISSUE DATE
 9/05/2013
 DATE
 STATE OF CALIFORNIA



NOTE: CONCRETE SURFACE TEXTURES (RANDOM BOULDERS) WILL BE CONTINUED THROUGH EXPANSION JOINTS

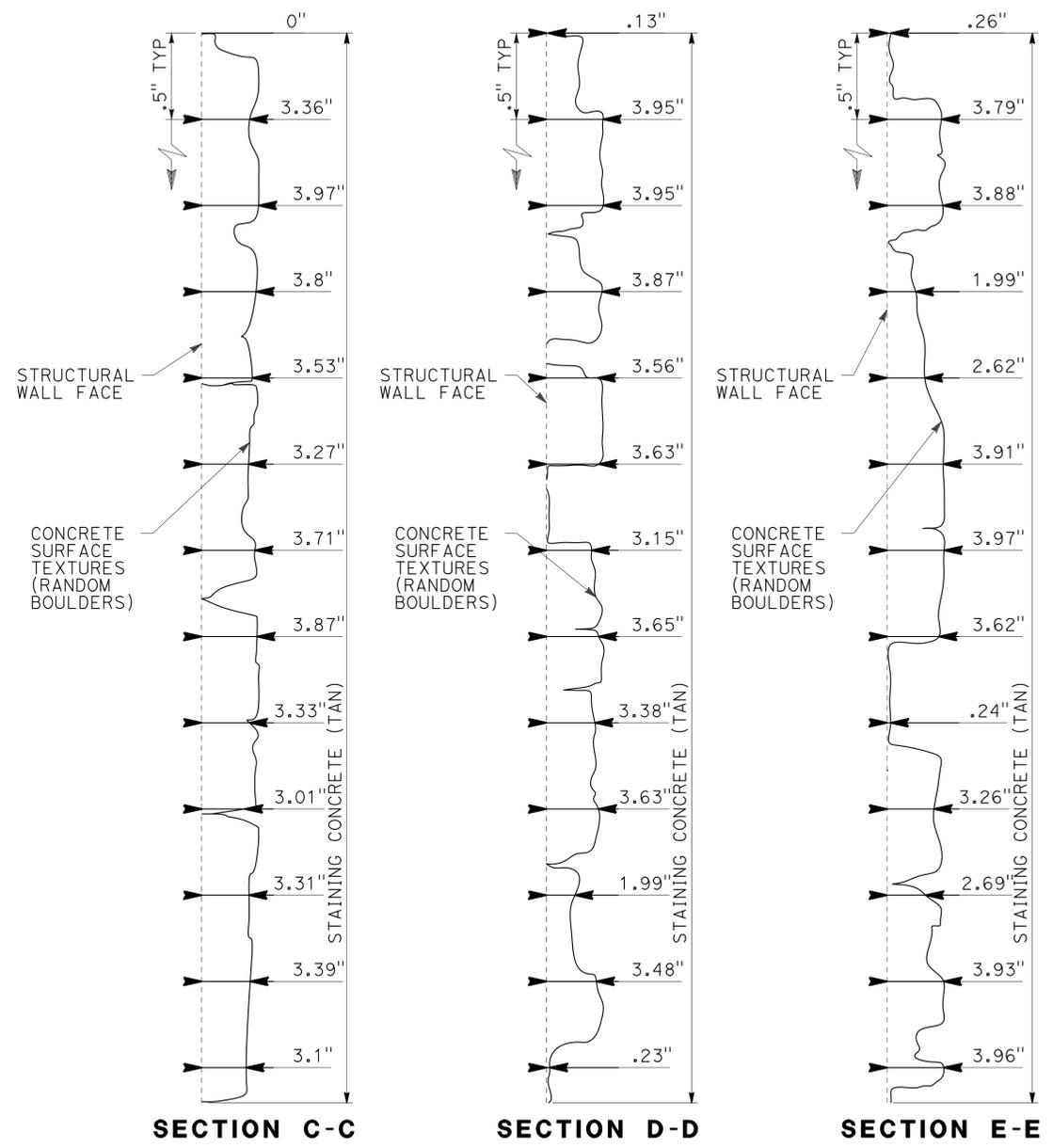
EXPANSION JOINTS DETAIL FOR CONCRETE SURFACE TEXTURES (RANDOM BOULDERS)

NO SCALE



RANDOM BOULDER ELEVATION

SCALE: 1"=1'-0"



NOTE: MAX DEPTH OF 4"

RANDOM BOULDER SECTIONS C,D,E

SCALE: 2"=1'-0"

DESIGN	BY M. Hall	CHECKED R. Desselle
DETAILS	BY M. Hall	CHECKED R. Desselle
QUANTITIES	BY B. Gunter	CHECKED V. Altamirano

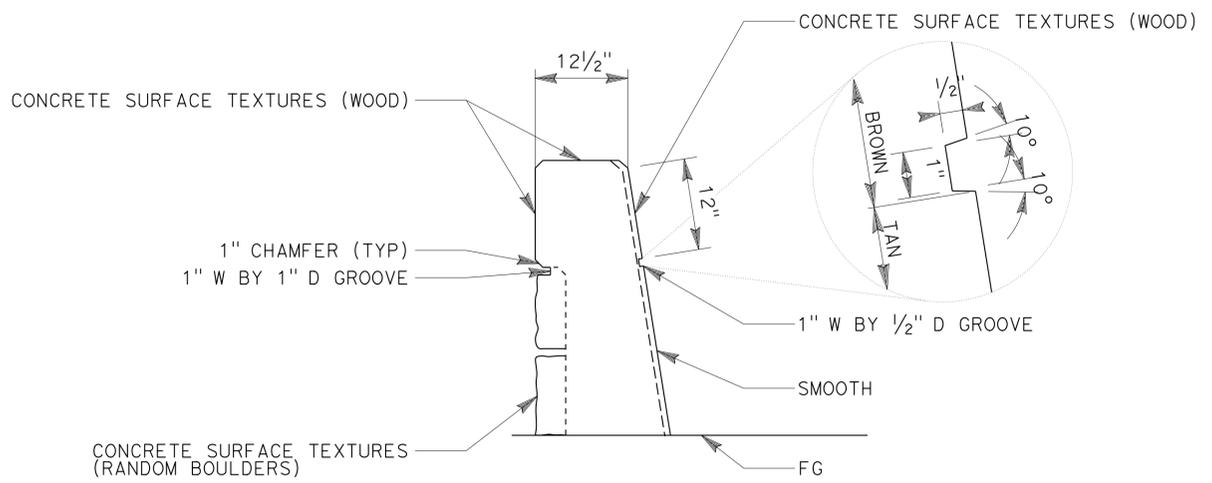
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 19

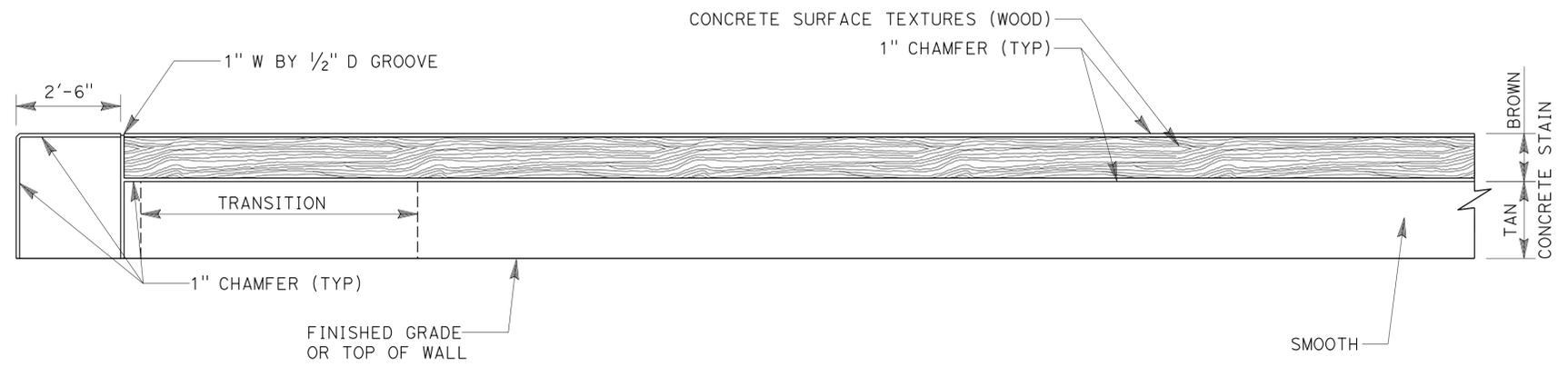
BRIDGE NO.	54-1288
POST MILE	13.9

WILDLIFE UNDERCROSSING NO. 2
ARCHITECTURAL TREATMENT NO. 1

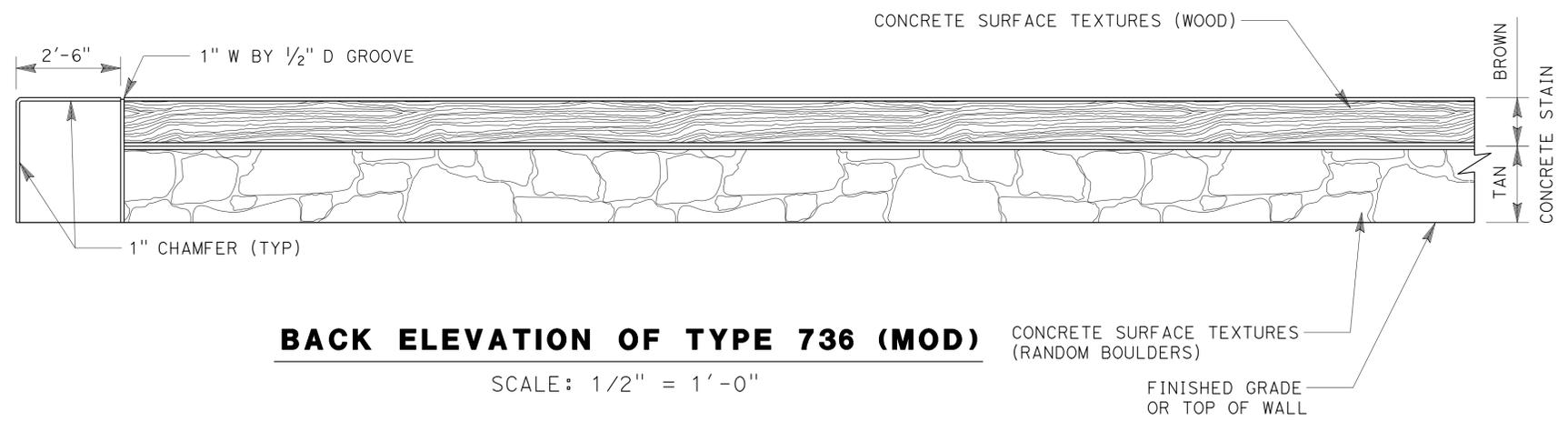
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1137	1168
 LICENSED LANDSCAPE ARCHITECT					
3-3-14 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



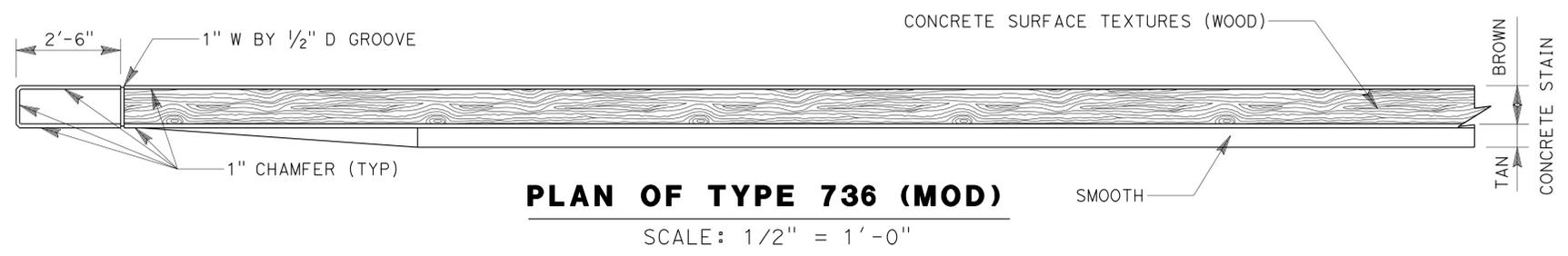
TYPICAL SECTION OF TYPE 736 (MOD)
 SCALE: 1" = 1'-0"



FRONT ELEVATION OF TYPE 736 (MOD)
 SCALE: 1/2" = 1'-0"



BACK ELEVATION OF TYPE 736 (MOD)
 SCALE: 1/2" = 1'-0"



PLAN OF TYPE 736 (MOD)
 SCALE: 1/2" = 1'-0"

DESIGN	BY M. Hall	CHECKED R. Desselle
DETAILS	BY M. Hall	CHECKED R. Desselle
QUANTITIES	BY B. Gunter	CHECKED V. Altamirano

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 19

BRIDGE NO.	54-1288
POST MILE	13.9

WILDLIFE UNDERCROSSING NO. 2
ARCHITECTURAL TREATMENT NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1138	1168

7-29-13
REGISTERED CIVIL ENGINEER

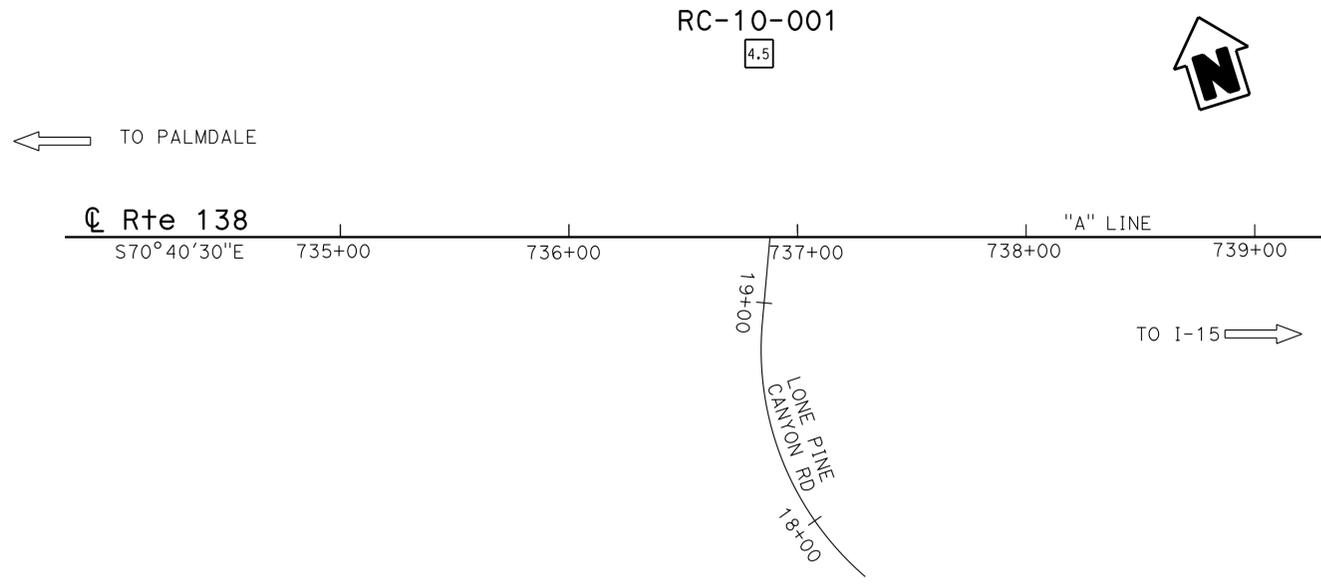
3-3-14
PLANS APPROVAL DATE

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.

REGISTERED PROFESSIONAL ENGINEER
David T-M Liao
No. C59838
Exp. 12-31-13
CIVIL
STATE OF CALIFORNIA

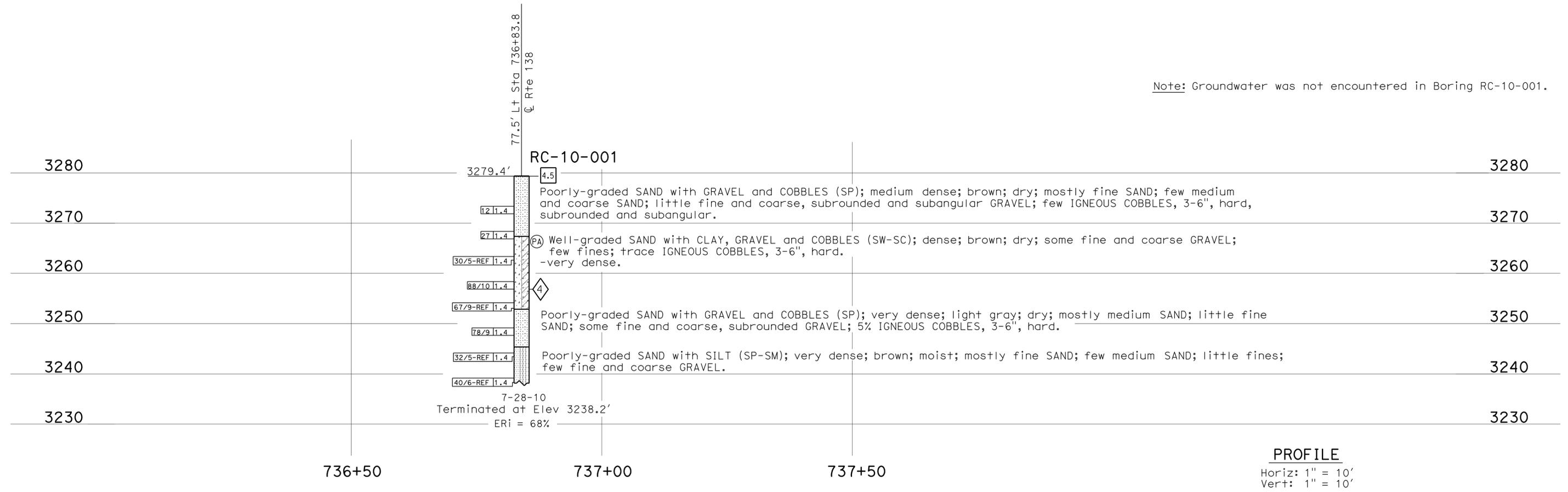
BENCH MARK

SUHV 201 Elev 3284.3'
SET 1" I.P. & RED CT PLUG WITH WITNESS
GUARD POST 3' AWAY FROM POINT, APPROX
65' NE OF CROSSING LOCATION
N 1937839.670
E 6713901.198
NGVD29



PLAN
1" = 40'

Note: Groundwater was not encountered in Boring RC-10-001.



ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		WILDLIFE UNDERCROSSING NO. 2	
FUNCTIONAL SUPERVISOR		DRAWN BY: F. Nguyen 12/10, I.G-Remen 12/12		FIELD INVESTIGATION BY:		STRUCTURE DESIGN		54-1288		LOG OF TEST BORINGS	
NAME: M. DeSalvatore		CHECKED BY: E. Neupert		J. Klamecki		DESIGN BRANCH 19		POST MILE			
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		PROJECT NUMBER & PHASE: 08000006091		CONTRACT NO.: 08-3401U1		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
				0 1 2 3		REVISION DATES		SHEET OF		18 18	

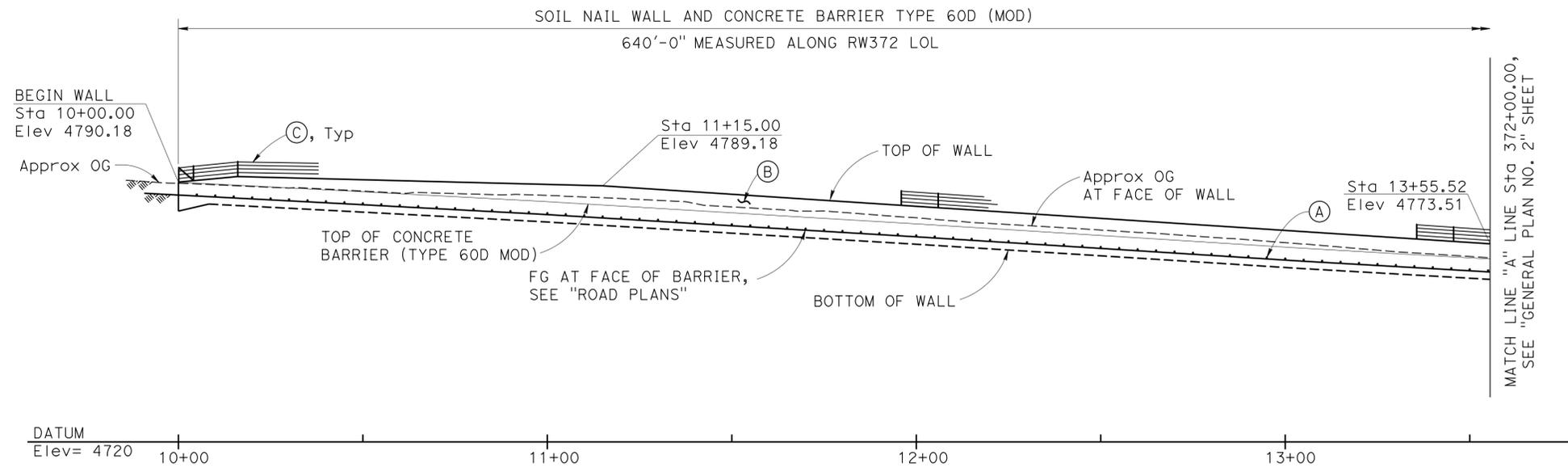
FILE => 54-1288-z_10tb18.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1139	1168

10-03-13
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE

B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA

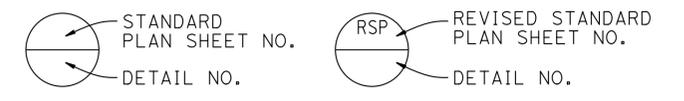
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



MIRRORED DEVELOPED ELEVATION
1" = 20'

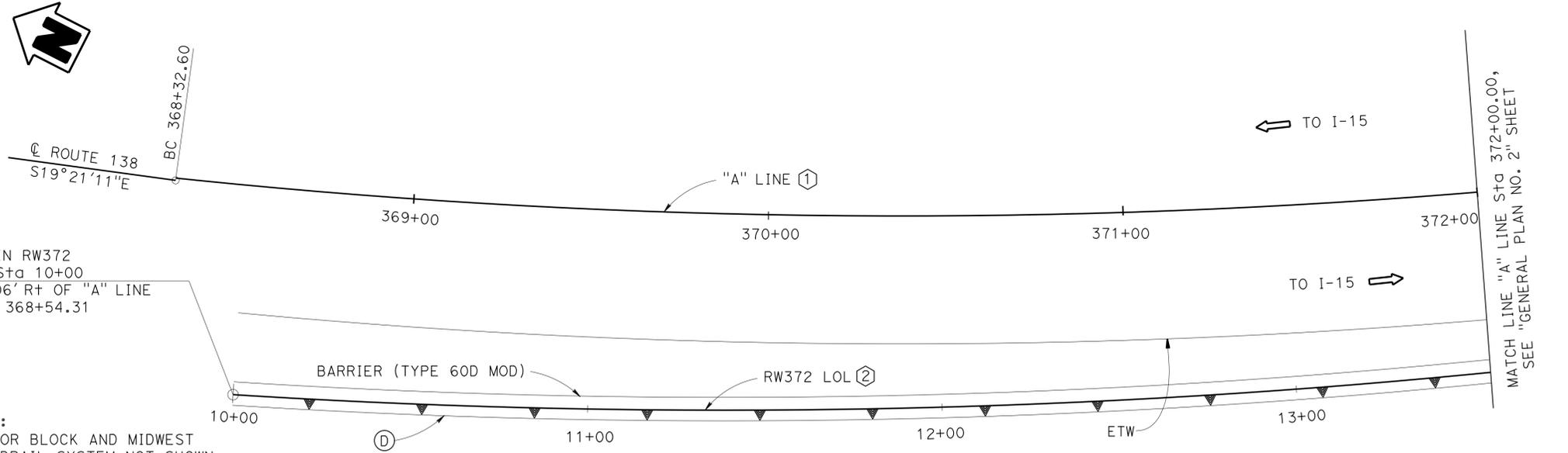
STANDARD PLANS DATED 2010

- A10A ABBREVIATIONS (SHEET 1 OF 2)
- A10B ABBREVIATIONS (SHEET 2 OF 2)
- A10C LINES AND SYMBOLS (SHEET 1 OF 3)
- A10D LINES AND SYMBOLS (SHEET 2 OF 3)
- A10E LINES AND SYMBOLS (SHEET 3 OF 3)
- A10F LEGEND-SOIL (SHEET 1 OF 2)
- A10G LEGEND-SOIL (SHEET 2 OF 2)
- A10H LEGEND-ROCK
- BO-3 BRIDGE DETAILS
- B3-6 RETAINING WALL DETAIL NO. 2
- RSP B11-47 CABLE RAILING



NOTES:

- (A) Weep hole between soil nails, see "MISCELLANEOUS DETAILS" sheet.
- (B) Concrete surface texture, see "ARCHITECTURAL TREATMENT" sheets.
- (C) Cable Railing (RSP B11-47)
- (D) Gutter (B3-6)
- (E) Stain all expose concrete to 1' below top of concrete barrier.
- (F) For GENERAL NOTES, see "SOIL NAIL WALL DETAILS" sheet.
- (G) For INDEX TO PLANS, see "GENERAL PLAN NO. 2" sheet.



CURVE DATA

No.	R	Δ	T	L
①	1968.500'	38°18'52"	683.857'	1316.362'
②	2192.801'	16°43'21"	322.291'	640.000'

QUANTITIES

STRUCTURE EXCAVATION (SOIL NAIL WALL)	342	CY
STRUCTURE BACKFILL (SOIL NAIL WALL)	56	CY
SOIL NAIL	3,468	LF
STRUCTURAL CONCRETE, RETAINING WALL	184	CY
CONCRETE SURFACE TEXTURE	4,333	SQFT
BAR REINFORCING STEEL (RETAINING WALL)	34,192	LB
STRUCTURAL SHOTCRETE	76	CY
PREPARE AND STAIN CONCRETE	4,333	SQFT
MINOR CONCRETE (GUTTER) (CY)	22	CY
CABLE RAILING (MODIFIED)	640	LF
CONCRETE BARRIER (TYPE 60D MODIFIED)	640	LF

LEGEND:

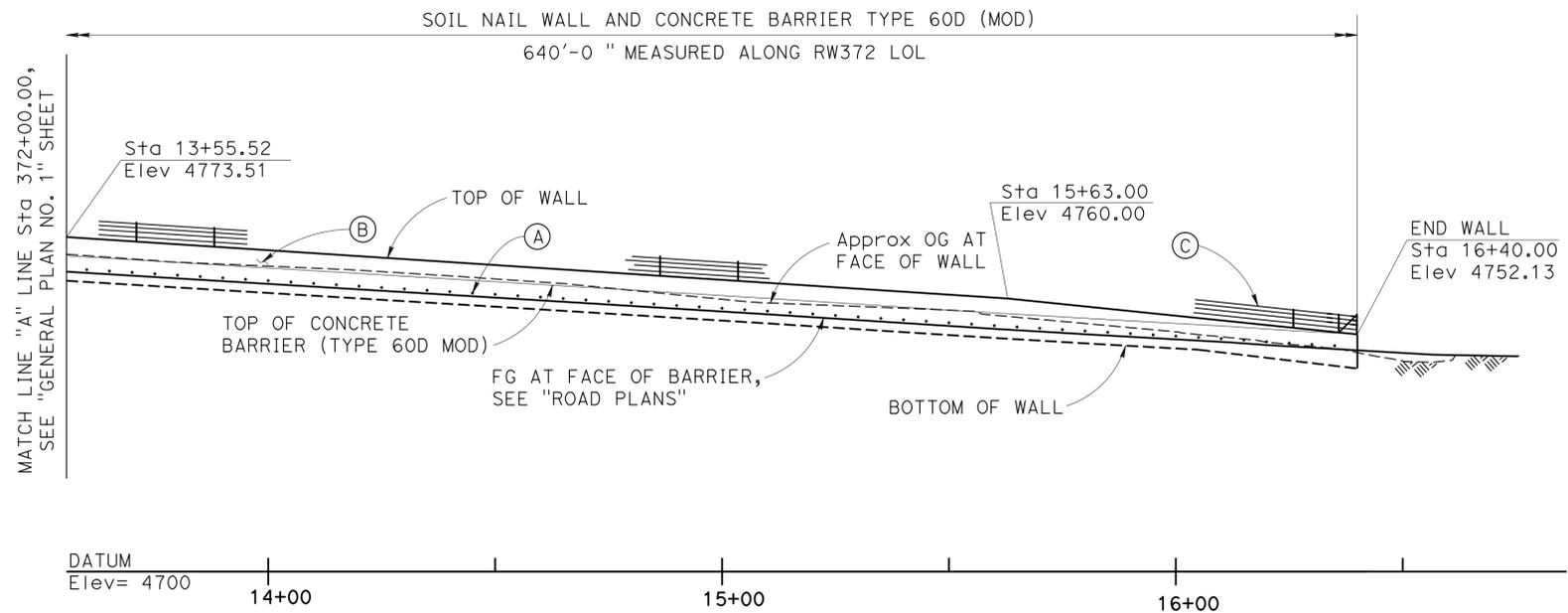
→ Indicates direction of traffic flow

B. Gunter DESIGN ENGINEER	DESIGN	BY A. Vega	CHECKED W. Hsia	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	RETAINING WALL NO. 372 GENERAL PLAN NO. 1
	DETAILS	BY F. Hosseinioun/T. Dang/H.I.	CHECKED W. Hsia	LAYOUT	BY S. Pink			CHECKED A. Vega	
	QUANTITIES	BY H. Win	CHECKED V. Altamirano	SPECIFICATIONS	BY S. Seifert	PLANS AND SPECS COMPARED W. Siu	7.04		

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 UNIT: 3621
 PROJECT NUMBER & PHASE: 0800000609 - 1 CONTRACT NO.: 08-3401U1
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 02-25-13, 11-18-13, 12-12-13
 SHEET 1 OF 19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1140	1168

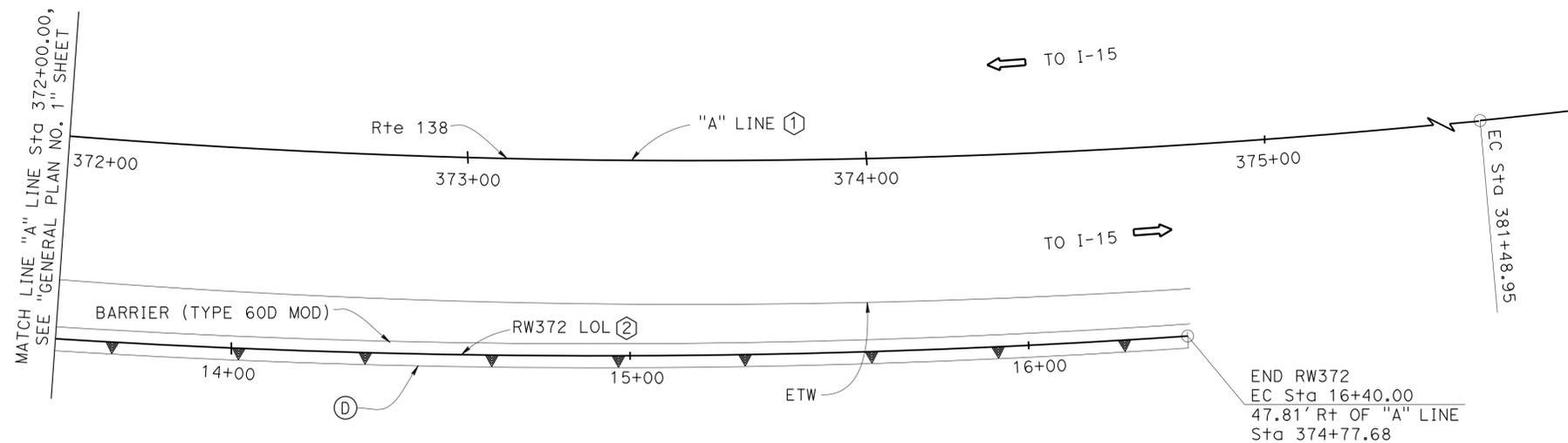
8-27-2013
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE
 B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA
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MIRRORED DEVELOPED PLAN
1" = 20'

INDEX TO PLANS

Sheet NO.	Title
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	FOUNDATION PLAN 1 OF 2
4	FOUNDATION PLAN 2 OF 2
5	SOIL NAIL ELEVATION NO. 1
6	SOIL NAIL ELEVATION NO. 2
7	SOIL NAIL ELEVATION NO. 3
8	SOIL NAIL ELEVATION NO. 4
9	SOIL NAIL ELEVATION NO. 5
10	SOIL NAIL ASSEMBLY
11	SOIL NAIL WALL DETAILS
12	MISCELLANEOUS DETAILS
13	ARCHITECTURAL TREATMENT NO. 1
14	ARCHITECTURAL TREATMENT NO. 2
15	ARCHITECTURAL TREATMENT NO. 3
16	ARCHITECTURAL TREATMENT NO. 4
17	ARCHITECTURAL TREATMENT NO. 5
18	ARCHITECTURAL TREATMENT DETAILS
19	LOG OF TEST BORINGS



PLAN
1" = 20'

LEGEND:

➡ Indicates direction of travel flow

NOTES:

- (A) Weep hole between soil nails, see "MISCELLANEOUS DETAILS" sheet.
- (B) Concrete surface texture, see "ARCHITECTURAL TREATMENT" sheets.
- (C) Cable Railing RSP B11-47
- (D) Gutter B3-6
- (E) Stain all expose concrete to 1' below top of concrete barrier.
- (F) For GENERAL NOTES, see "SOIL NAIL WALL" sheet.

CURVE DATA

No.	R	Δ	T	L
①	1968.500'	38°18'52"	683.857'	1316.362'
②	2192.801'	16°43'21"	322.291'	640.000'

DESIGN	A. Vega	CHECKED	W. Hsia
DETAILS	S. Pink/T. Dang/ H. I.	CHECKED	W. Hsia
QUANTITIES	H. Win	CHECKED	V. Altamirano

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 19

BRIDGE NO.	54E0122
POST MILE	7.04

RETAINING WALL NO. 372
GENERAL PLAN NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1141	1168

8-27-2013
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE
 B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA
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SURVEY CONTROL
 CTRL720 (not shown on FOUNDATION PLAN)
 Fd Brass Disk in CONC.
 128.575 Rt. C Rte 138
 Sta 379+87.46
 N 1 962 475.980
 E 6 690 776.600
 Elev 4714.489

CTRL102 (not shown on FOUNDATION PLAN)
 Fd: Set 1" IP. & Red CT Plug with Witness Guard Post
 140.386 Rt. C Rte 138
 Sta 401+57.67
 N 1 961 293.802
 E 6 692 609.002
 Elev 4572.437

- NOTES:**
- Underground utilities as shown are approximate. See District Utility Plans for details.
 - For curve data see "GENERAL PLANS" sheets

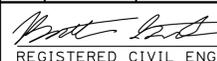
Match Line - See "FOUNDATION PLAN 2 OF 2"

PRELIMINARY INVESTIGATION SECTION				DESIGN BY A. Vega	CHECKED W. Hsia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO. 54E0122	RETAINING WALL NO. 372 FOUNDATION PLAN 1 OF 2		
SCALE 1"=20'	VERT. DATUM NGVD29	PHOTOGRAMMETRY AS OF: X	DETAILS BY F. Hosseinioun/T. Dang/H.I.	CHECKED W. Hsia	POST MILE 7.04						
ALIGNMENT TIES Dist. Traverse Sheet	SURVEYED BY D8	CHECKED BY T. Phung/ C. Stewart	QUANTITIES BY H. Win	CHECKED V. Altamirano							
STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 09-01-10)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3647	PROJECT NUMBER & PHASE: 0800000609 - 1	CONTRACT NO.: 08-3401U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 3 OF 19

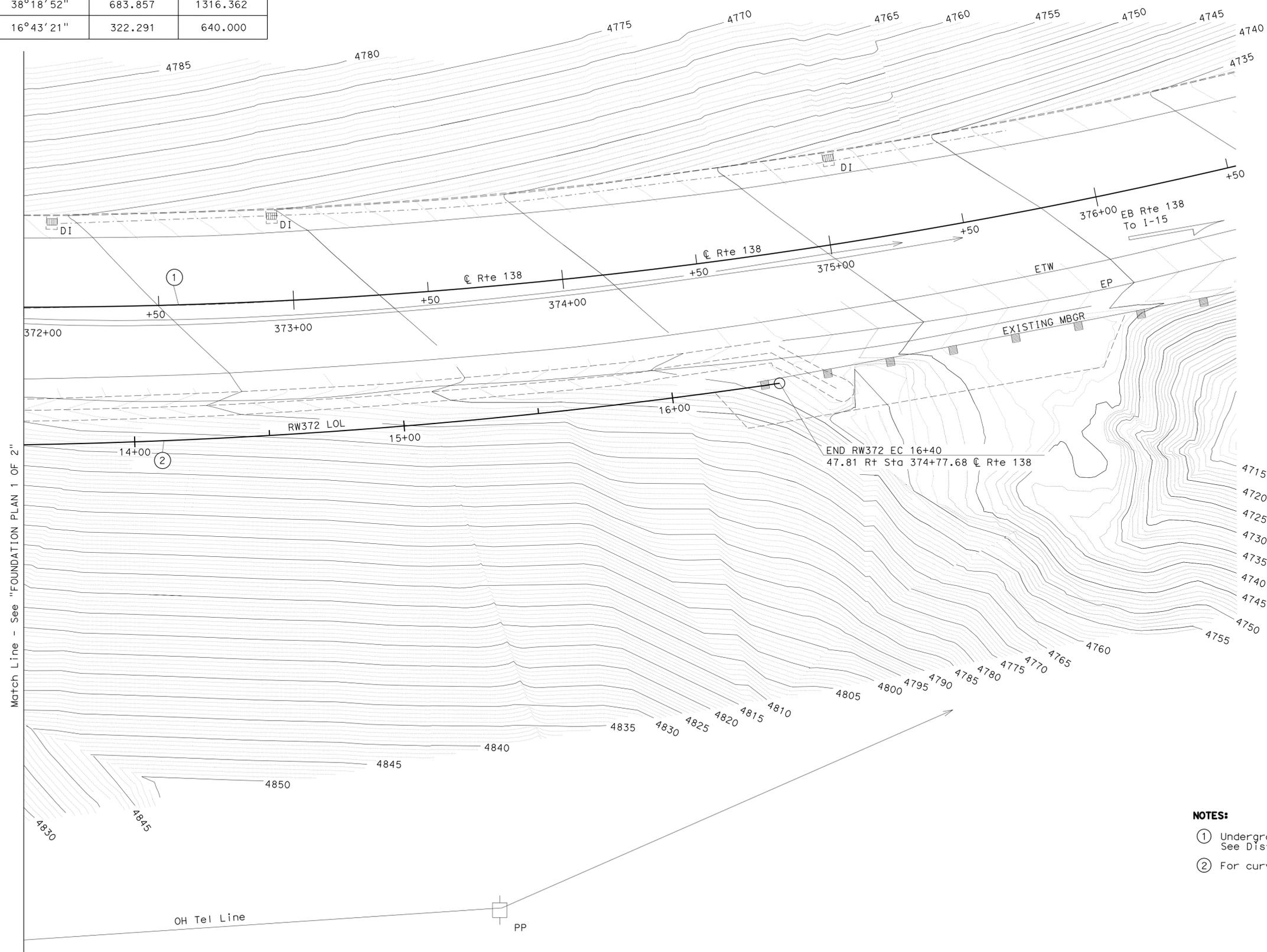
DATE PLOTTED => 07-MAR-2014 TIME PLOTTED => 12:46 USERNAME => s124496 FILE => 54-rw372-e-fdpl_01.dgn

No.	R	Δ	T	L
①	1968.500	38°18'52"	683.857	1316.362
②	2192.801	16°43'21"	322.291	640.000

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.27/6.4, 2.3/R15.2	1142	1168

 8-27-2013
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA



Match Line - See "FOUNDATION PLAN 1 OF 2"

- NOTES:**
- ① Underground utilities as shown are approximate. See District Utility Plans for details.
 - ② For curve data see "GENERAL PLANS" sheets

SURVEY CONTROL
See "FOUNDATION PLAN 1 OF 2"

PRELIMINARY INVESTIGATION SECTION				DESIGN BY A. Vega	CHECKED W. Hsia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO. 54E0122	RETAINING WALL NO. 372 FOUNDATION PLAN 2 OF 2			
SCALE 1"=20'	VERT. DATUM NGVD29	PHOTOGRAMMETRY AS OF: X	DETAILS BY F. Hosseinioun/ H. I.	CHECKED W. Hsia	POST MILE 7.04							
ALIGNMENT TIES Dist. Traverse Sheet	DRAFTED BY C. Pham	CHECKED BY T. Phung/ C. Stewart	QUANTITIES BY H. Win	CHECKED V. Altamirano								
STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3647	PROJECT NUMBER & PHASE: 0800000609 - 1	CONTRACT NO.: 08-3401U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 4 OF 19

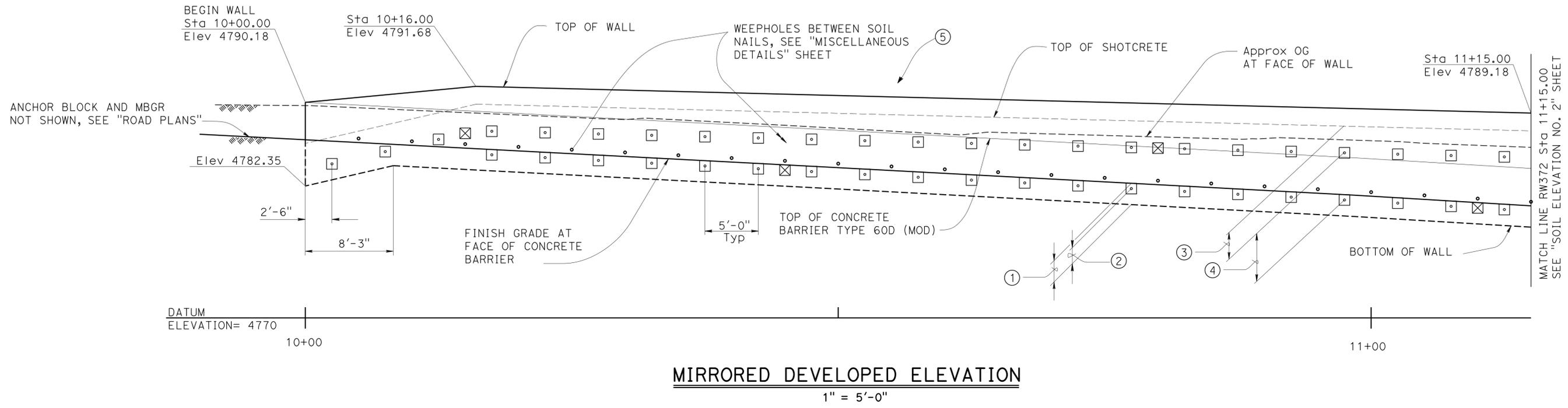
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08	SBd	2,138	6.2/6.4, 2.3/R15.2	1143	1168

8-27-2013
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE

B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA

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NOTES:

- ① See "ROAD PLANS" for FG at face of barrier. Bottom of wall is 2'-0" below FG at face of barrier, UON.
- ② Bottom row of soil nails shall be 1'-6" from bottom of wall.
- ③ Vertical distance from top of shotcrete to top row of soil nails shall be 2'-6"
- ④ Vertical spacing of soil nails shall be no more than 5'-0" and no less than 2'-0"
- ⑤ Cable Railing not shown for clarity.

LEGEND

- Soil nails
- ⊗ Proof test nail or as directed by the engineer.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY A. Vega	CHECKED W. Hsia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	RETAINING WALL NO. 372		
	DETAILS	BY F. Hosseinioun/T. Dang/H.I.	CHECKED W. Hsia			54E0122	SOIL NAIL ELEVATION NO. 1		
	QUANTITIES	BY H. Win	CHECKED V. Altamirano			POST MILE 7.04			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					UNIT: 3621	PROJECT NUMBER & PHASE: 0800000609 - 1 CONTRACT NO.: 08-3401U1		REVISION DATES	SHEET 5 OF 19

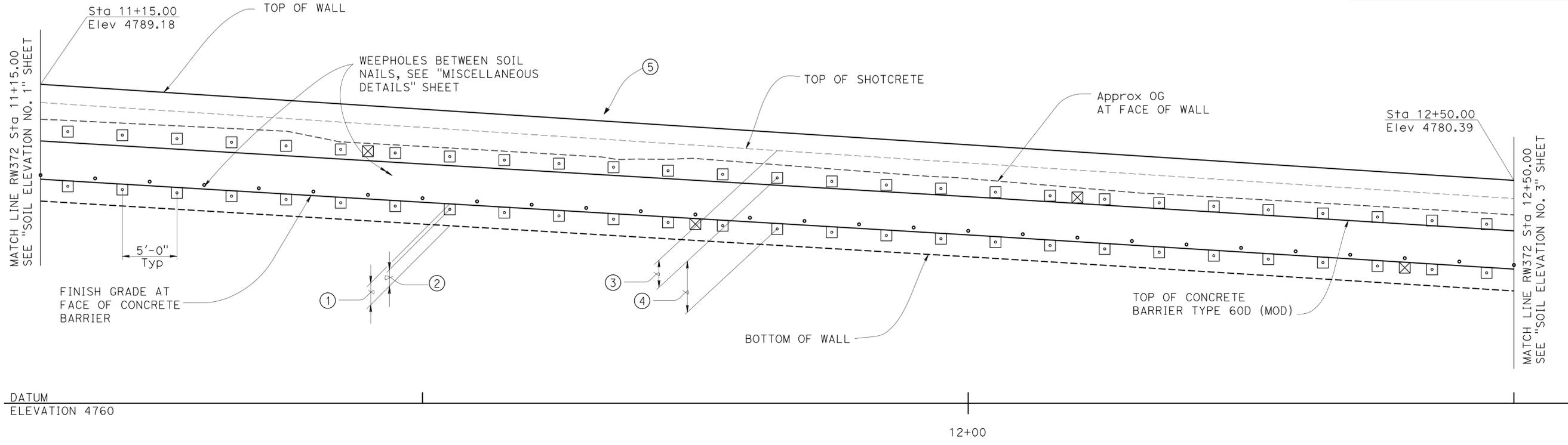
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 DATE PLOTTED => 08/28/13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1144	1168

8-27-2013
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE
 B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA
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MIRRORED DEVELOPED ELEVATION
1" = 5'-0"

NOTES:

- ① See "ROAD PLANS" for FG at face of barrier. Bottom of wall is 2'-0" below FG at face of barrier, UON.
- ② Bottom row of soil nails shall be 1'-6" from bottom of wall.
- ③ Vertical distance from top of shotcrete to top row of soil nails shall be 2'-6"
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- ⑤ Cable Railing not shown for clarity.

LEGEND

- Soil nails
- ⊗ Proof test nail or as directed by the engineer.

DESIGN BY A. Vega CHECKED W. Hsia DETAILS BY F. Hosseinioun/T.Dang/H.I. CHECKED W. Hsia QUANTITIES BY H. Win CHECKED V. Altamirano	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19		BRIDGE NO. 54E0122 POST MILE 7.04	RETAINING WALL NO. 372 SOIL NAIL ELEVATION NO. 2		
	STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3621 PROJECT NUMBER & PHASE: 0800000609 - 1 CONTRACT NO.: 08-3401U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 03-05-12 4-16-13 08-28-13 08-09-13	SHEET 6 OF 19
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 DATE PLOTTED => 8/12/4496

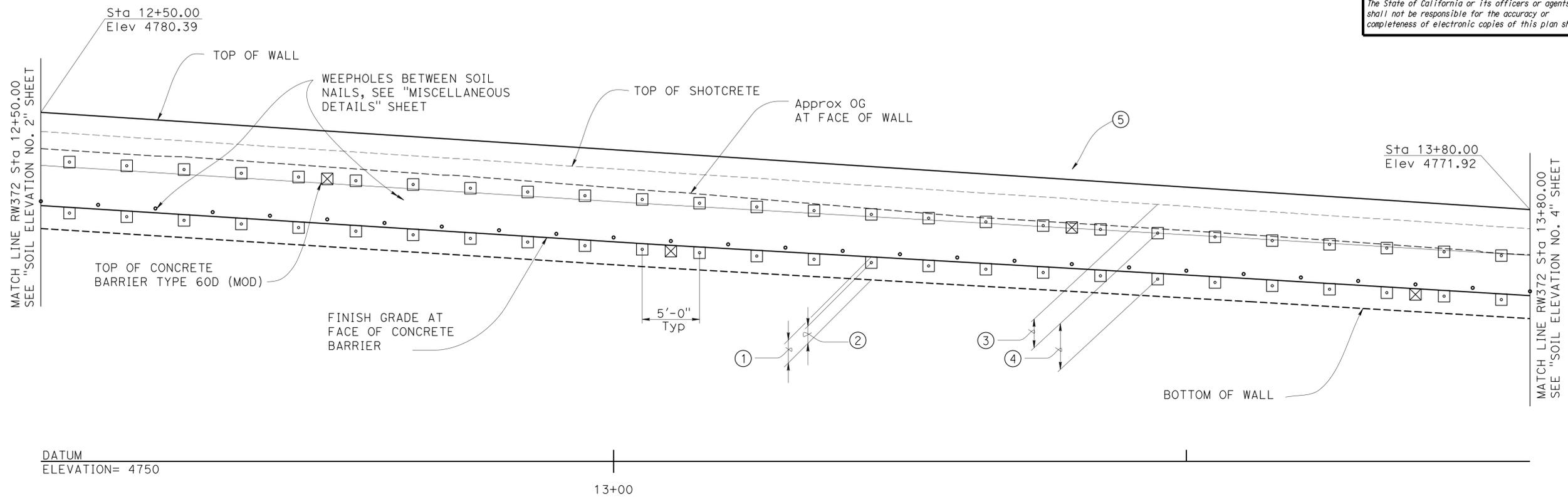
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1145	1168

8-27-2013
 REGISTERED CIVIL ENGINEER DATE

3-3-14
 PLANS APPROVAL DATE

B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA

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MIRRORED DEVELOPED ELEVATION
1" = 5'-0"

NOTES:

- ① See "ROAD PLANS" for FG at face of barrier. Bottom of wall is 2'-0" below FG at face of barrier, UON.
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- ⑤ Cable Railing not shown for clarity.

LEGEND

- Soil nails
- ⊠ Proof test nail or as directed by the engineer.

DESIGN	BY A. Vega	CHECKED W. Hsia
DETAILS	BY F. Hosseinioun/T. Dang/H.I.	CHECKED W. Hsia
QUANTITIES	BY H. Win	CHECKED V. Altamirano

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 19

BRIDGE NO.	54E0122
POST MILE	7.04

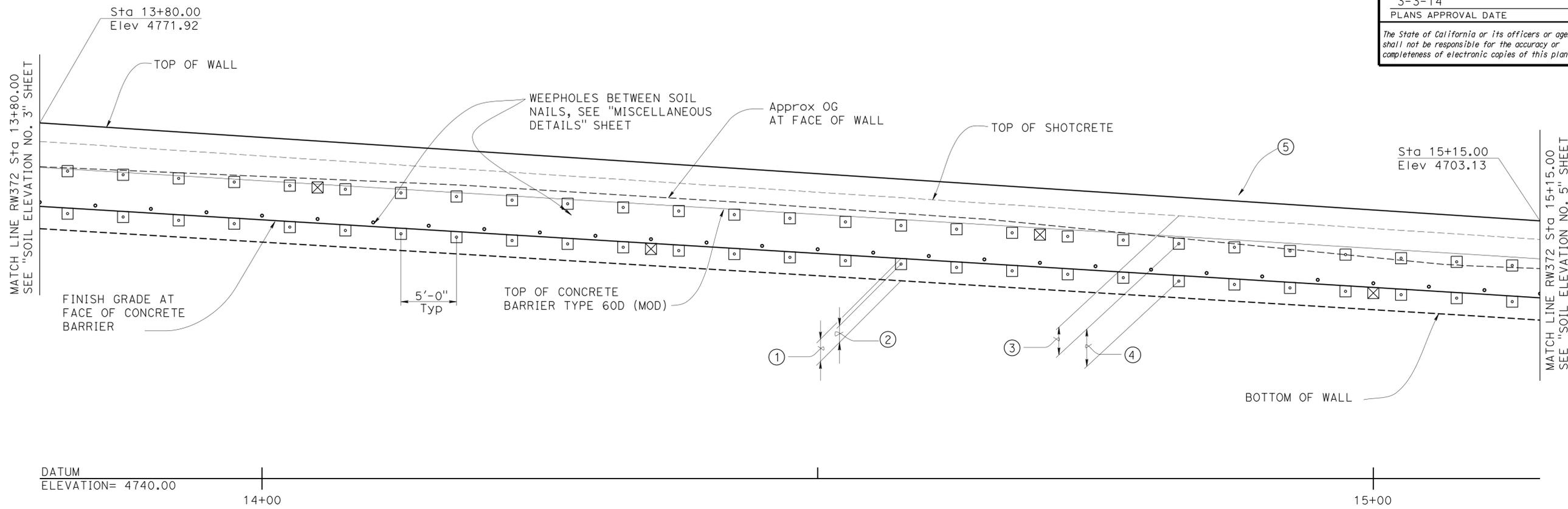
RETAINING WALL NO. 372
SOIL NAIL ELEVATION NO. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1146	1168

8-27-2013
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1" = 5'-0"

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- ① See "ROAD PLANS" for FG at face of barrier. Bottom of wall is 2'-0" below FG at face of barrier, UON.
- ② Bottom row of soil nails shall be 1'-6" from bottom of wall.
- ③ Vertical distance from top of shotcrete to top row of soil nails shall be 2'-6"
- ④ Vertical spacing of soil nails shall be no more than 5'-0" and no less than 2'-0"
- ⑤ Cable Railing not shown for clarity.

LEGEND

- Soil nails
- ⊗ Proof test nail or as directed by the engineer.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	DESIGN	BY A. Vega	CHECKED W. Hsia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	54E0122	RETAINING WALL NO. 372 SOIL NAIL ELEVATION NO. 4
	DETAILS	BY F. Hosseinioun/T. Dang/H. I	CHECKED W. Hsia			POST MILE	7.04	
	QUANTITIES	BY H. Win	CHECKED V. Altamirano					
UNIT: 3621 PROJECT NUMBER & PHASE: 0800000609 - 1 CONTRACT NO.: 08-3401U1					REVISION DATES 03-22-13 08-28-13 08-29-13		SHEET 8	OF 19

FILE => 54-rw372-g-snw_elev_04.dgn
 USERNAME => s124496 DATE PLOTTED => 12:46 TIME PLOTTED =>

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1147	1168

 8-27-2013
 REGISTERED CIVIL ENGINEER DATE

3-3-14
 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.

REGISTERED PROFESSIONAL ENGINEER

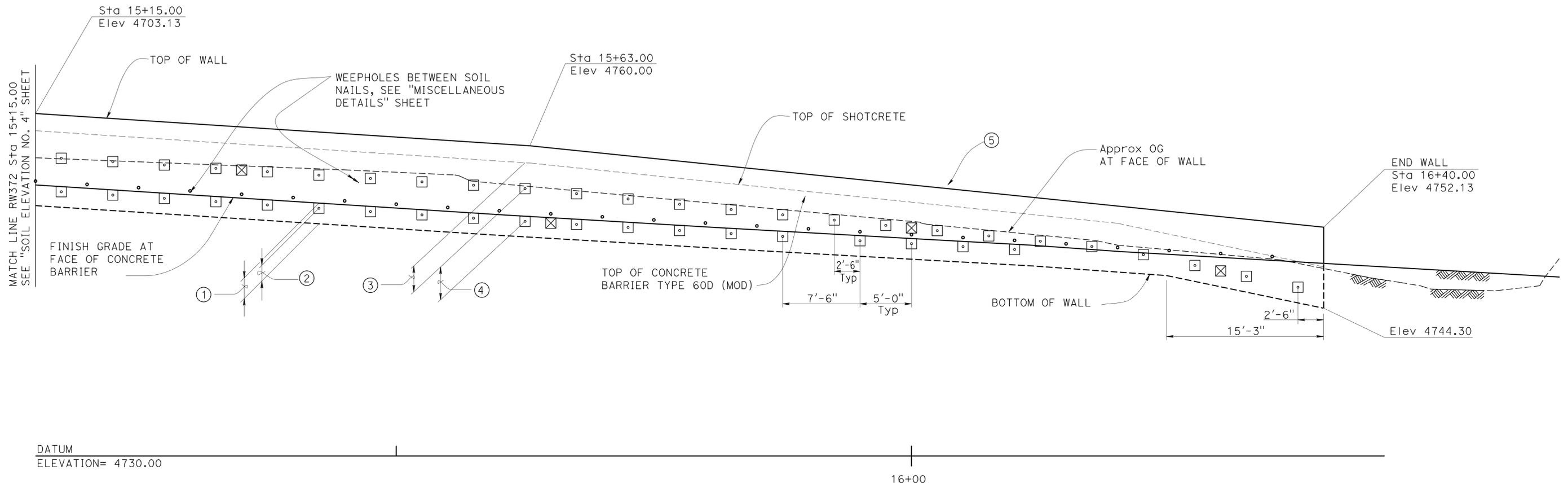
B. R. GUNTER

No. C 66195

Exp. 06-30-14

CIVIL

STATE OF CALIFORNIA



MIRRORED DEVELOPED ELEVATION
1" = 5'-0"

NOTES:

- ① See "ROAD PLANS" for FG at face of barrier. Bottom of wall is 2'-0" below FG at face of barrier, UON.
- ② Bottom row of soil nails shall be 1'-6" from bottom of wall.
- ③ Vertical distance from top of shotcrete to top row of soil nails shall be 2'-6".
- ④ Vertical spacing of soil nails shall be no more than 5'-0" and no less than 2'-0".
- ⑤ Cable Railing not shown for clarity.

LEGEND:

- Soil nails
- ⊗ Proof test nail or as directed by the engineer.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY A. Vega	CHECKED W. Hsia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	54E0122	RETAINING WALL NO. 372 SOIL NAIL ELEVATION NO. 5	
	DETAILS	BY F. Hosseinioun/T. Dang/H. I	CHECKED W. Hsia			POST MILE	7.04		
	QUANTITIES	BY H. Win	CHECKED V. Altamirano						
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3621	PROJECT NUMBER & PHASE: 0800000609 - 1 CONTRACT NO.: 08-3401U1		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
								REVISION DATES	SHEET 9 OF 19

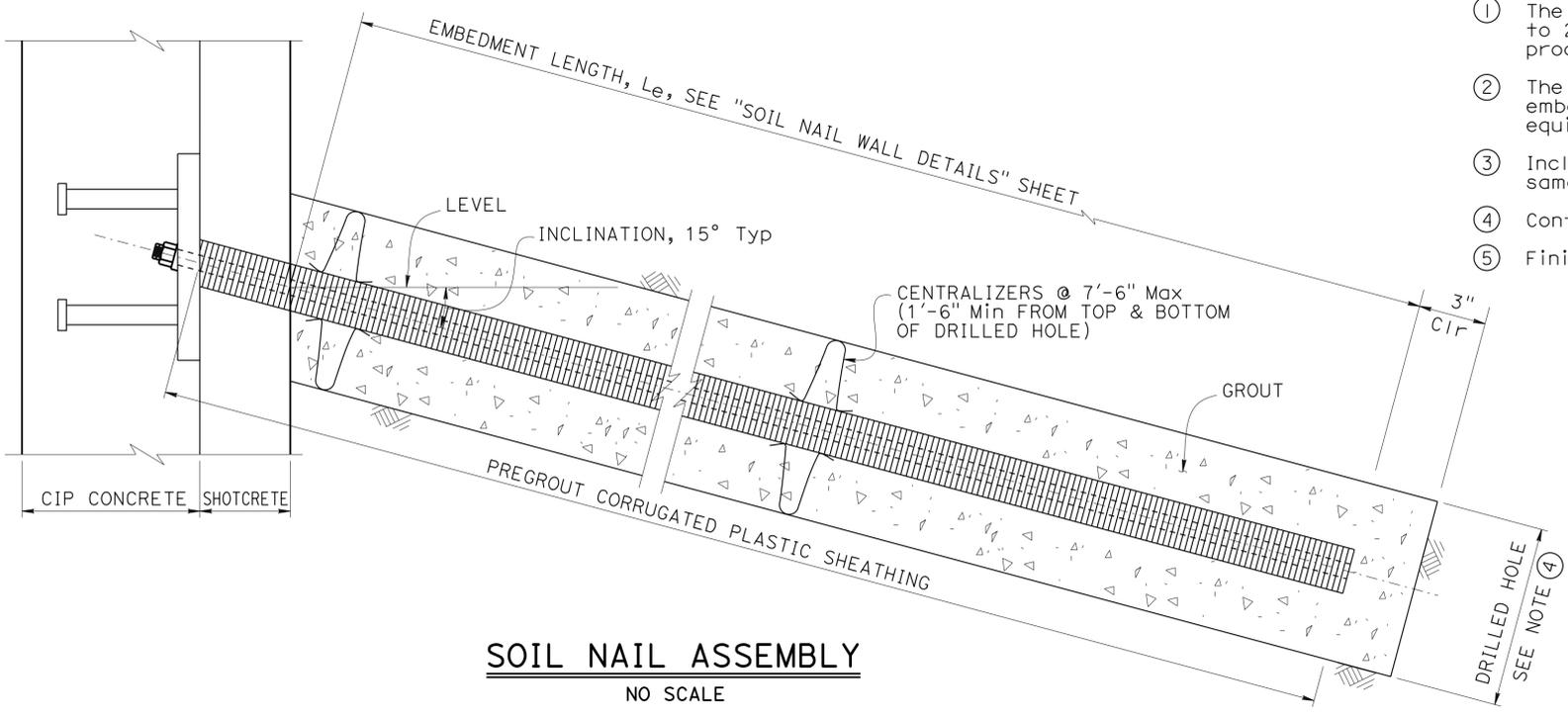
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 DATE PLOTTED => 08/28/13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1148	1168

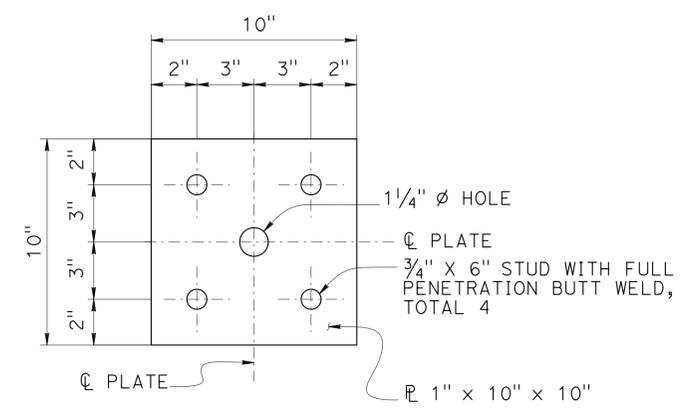
8-27-2013
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 B. R. GUNTER
 No. C 66192
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA

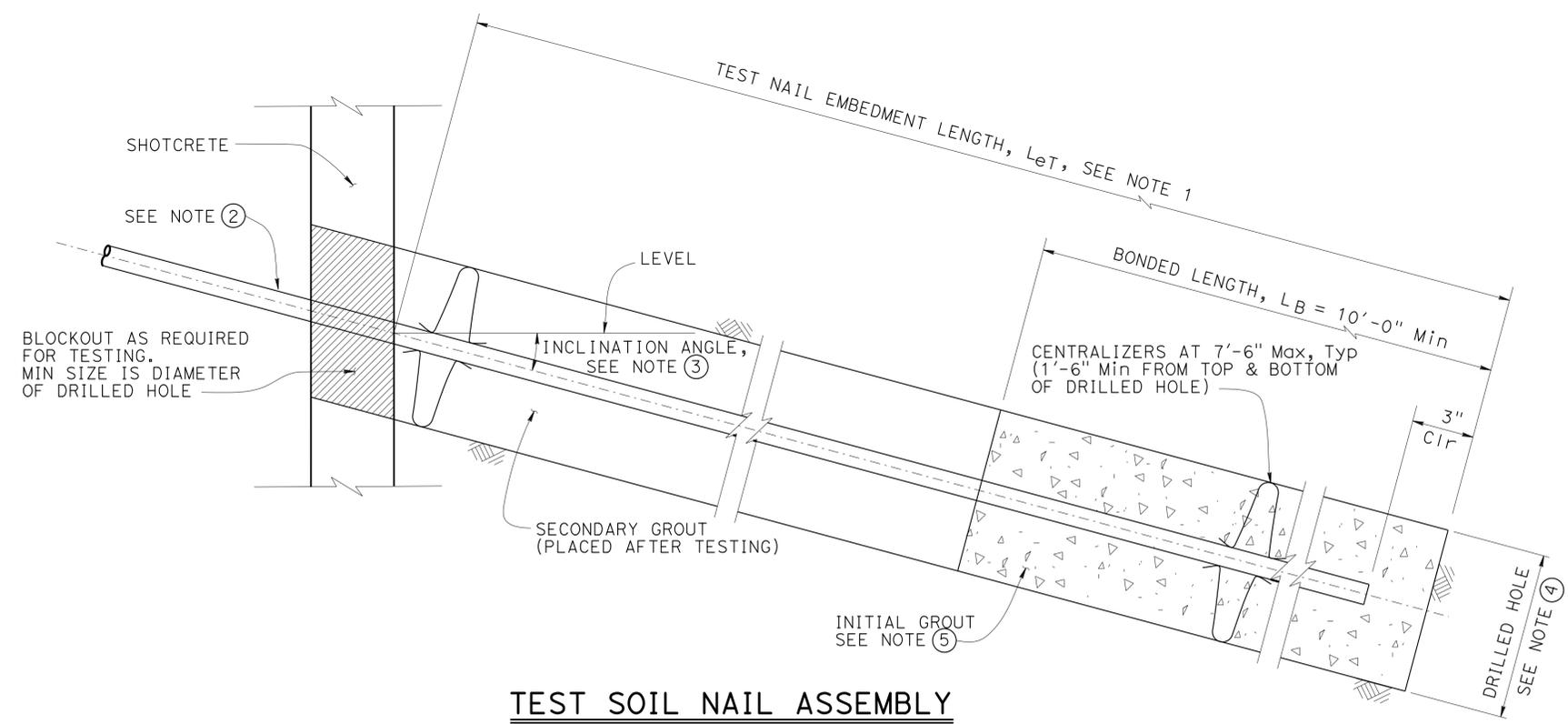
- NOTES:**
- The test nail embedment length, L_{eT} , shall be equal to $2/3$ of the embedment length, L_e , of adjacent production soil nail assemblies, but not less than 12'-0".
 - The total length of the test nail assembly equals the embedment length plus the length required for jacking equipment.
 - Inclination of proof test soil nail assembly to be the same as adjacent soil nail assembly.
 - Contractor to determine drilled hole diameter.
 - Finished grout surface to be normal to the bar.



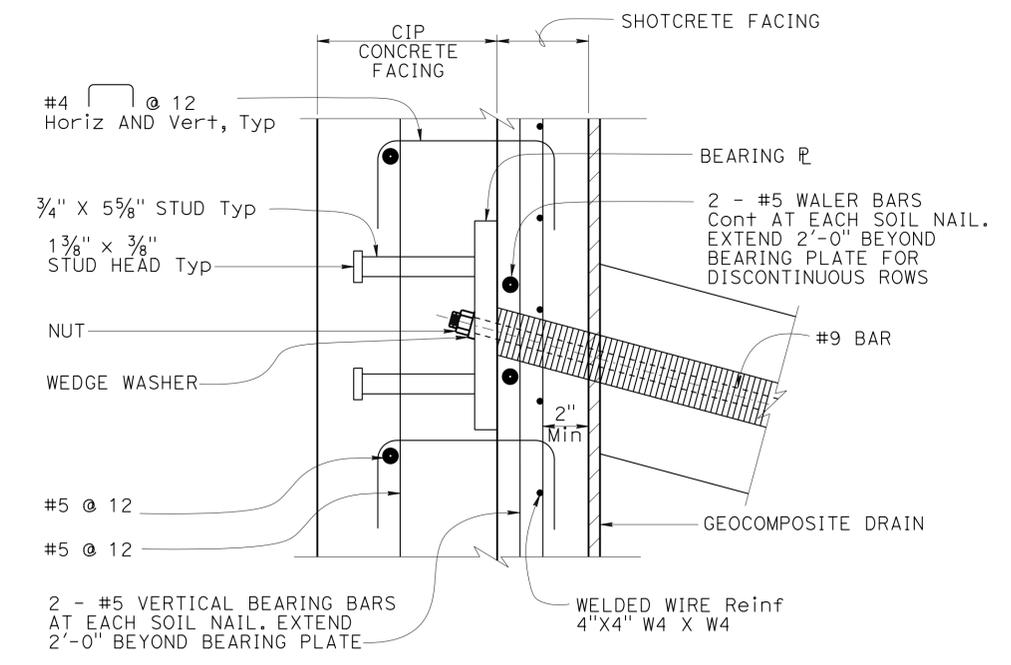
SOIL NAIL ASSEMBLY
NO SCALE



BEARING PLATE DETAIL
NO SCALE



TEST SOIL NAIL ASSEMBLY
NO SCALE



DETAIL B
NO SCALE

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	DESIGN	BY A. Vega	CHECKED W. Hsia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	54E0122	RETAINING WALL NO. 372 SOIL NAIL ASSEMBLY
	DETAILS	BY M. Tran/T. Dang/ H. I.	CHECKED W. Hsia			POST MILE	7.04	
	QUANTITIES	BY H. Win	CHECKED V. Altamirano			UNIT: 3621	PROJECT NUMBER & PHASE: 0800000609 - 1 CONTRACT NO.: 08-341U1	

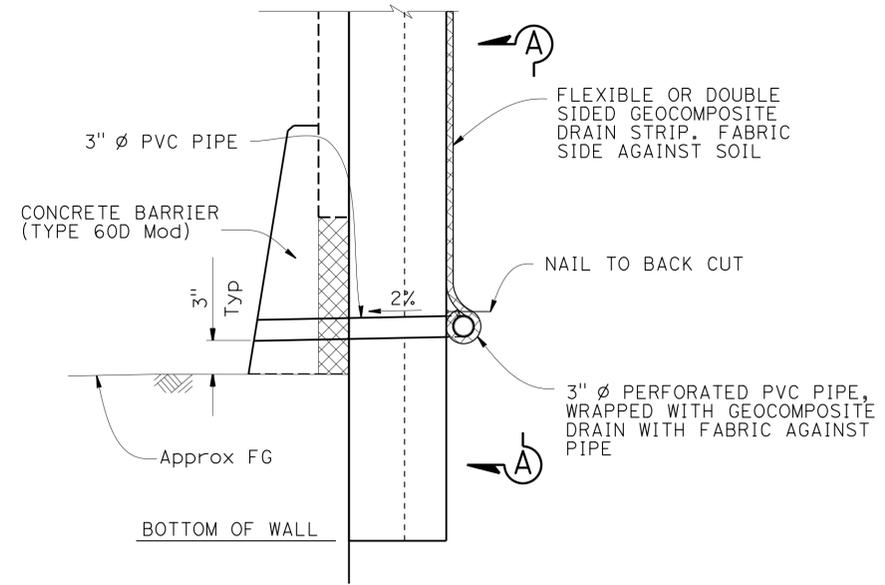
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 TIME PLOTTED => 12:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1150	1168

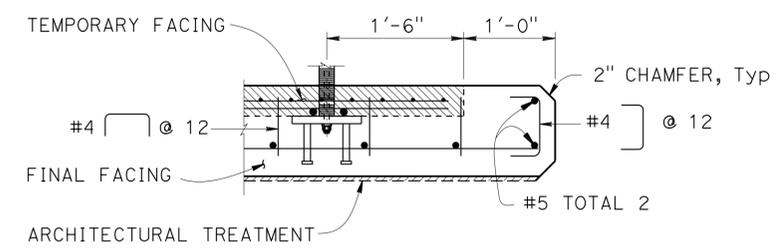
8-27-2013
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE
 B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA
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LEGEND:

-  Structure excavation (soil nail wall)
-  Structure backfill (soil nail wall)

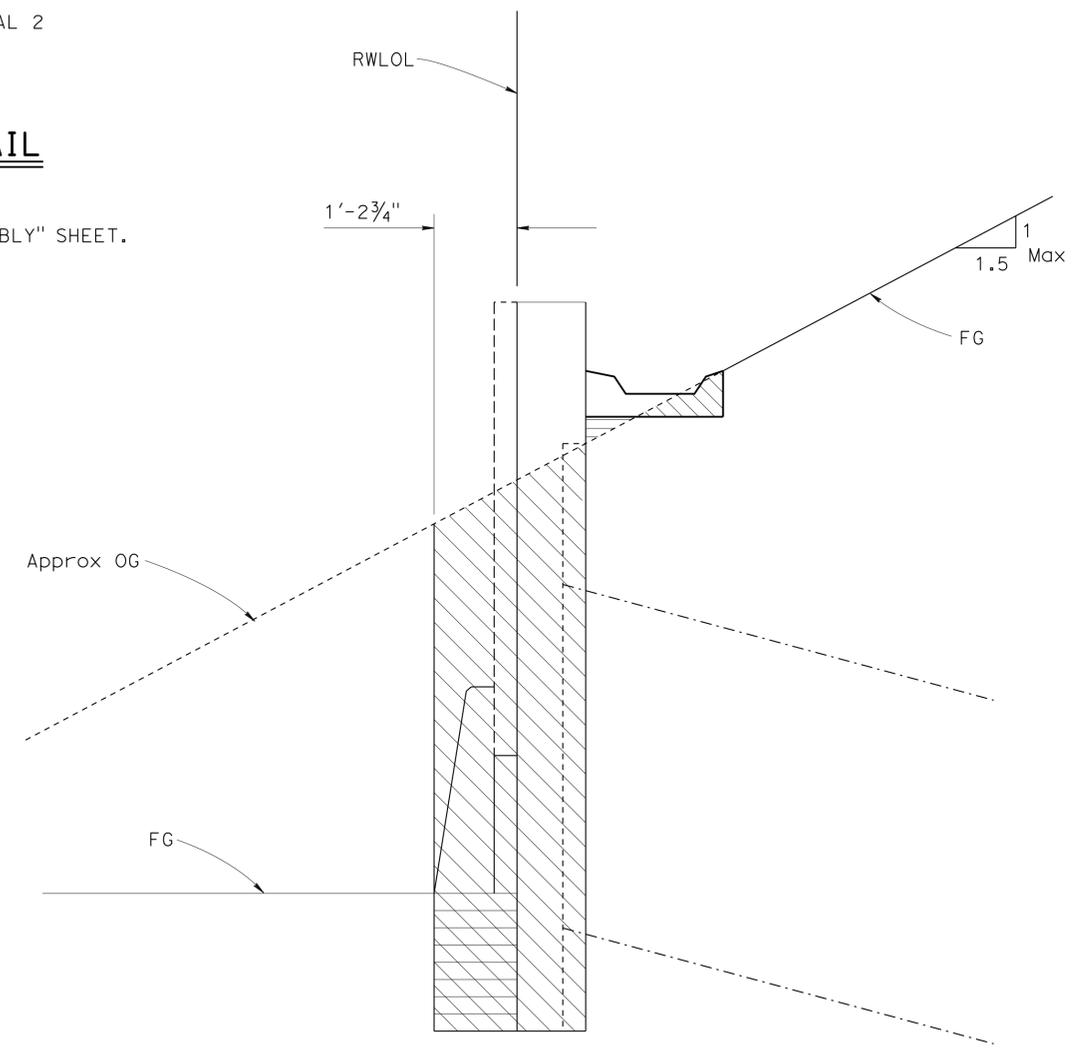


WALL DRAIN DETAIL AT WEEPHOLE
NO SCALE

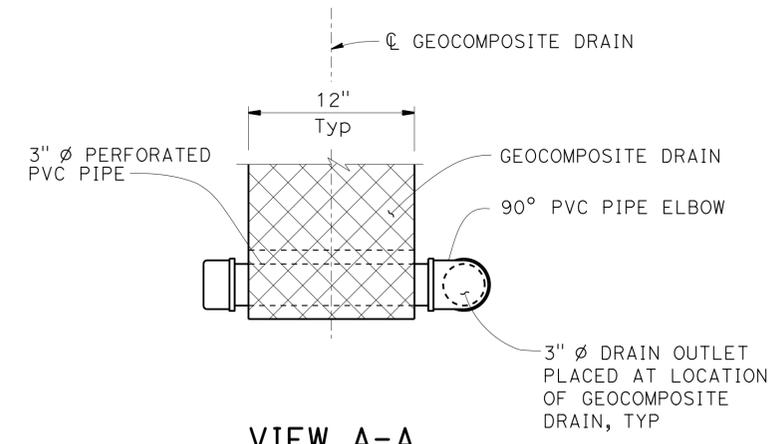


TYPICAL WALL END DETAIL
1" = 1'-0"

NOTE: DETAILS SHOWN BUT NOT NOTE, SEE "SOIL NAIL ASSEMBLY" SHEET.



LIMITS OF PAYMENT FOR STRUCTURE EXCAVATION AND BACKFILL
NO SCALE



VIEW A-A
NO SCALE

NOTE: GEOCOMPOSITE DRAINS AT 5'-0" MAX SPACING, CENTERED BETWEEN COLUMNS OF SOIL NAILS.

DESIGN	BY A. Vega	CHECKED W. Hsia
DETAILS	BY F. Hosseinioun/T. Dang/H. I	CHECKED W. Hsia
QUANTITIES	BY H. Win	CHECKED V. Altamirano

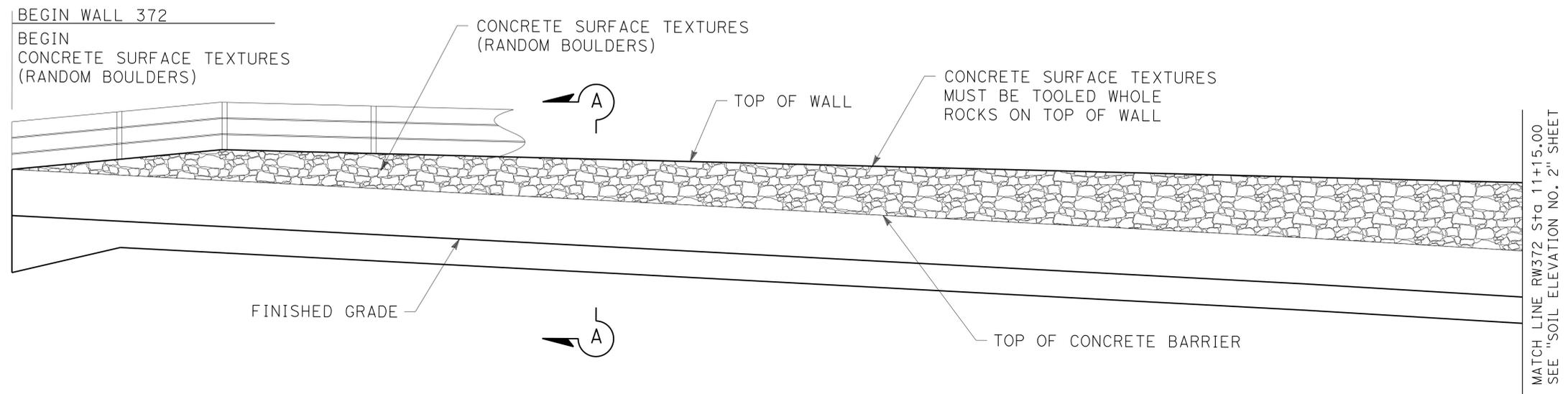
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 19

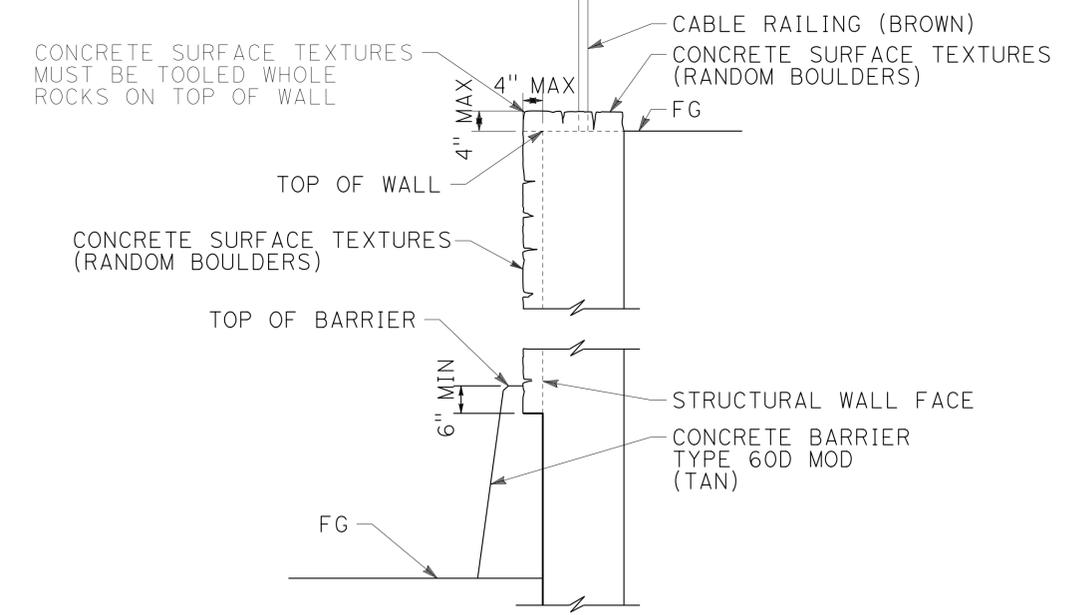
BRIDGE NO.	54E0122
POST MILE	7.04

RETAINING WALL NO. 372
MISCELLANEOUS DETAILS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1151	1168
 LICENSED LANDSCAPE ARCHITECT					
3-3-14 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>					



MIRRORED DEVELOPED ELEVATION
1" = 5'-0"



SECTION A-A
SCALE: N.T.S.

DESIGN	BY MATTHEW HALL	CHECKED RAY DESSELLE
DETAILS	BY MATTHEW HALL	CHECKED RAY DESSELLE
QUANTITIES	BY H. Win	CHECKED V. Altamirano

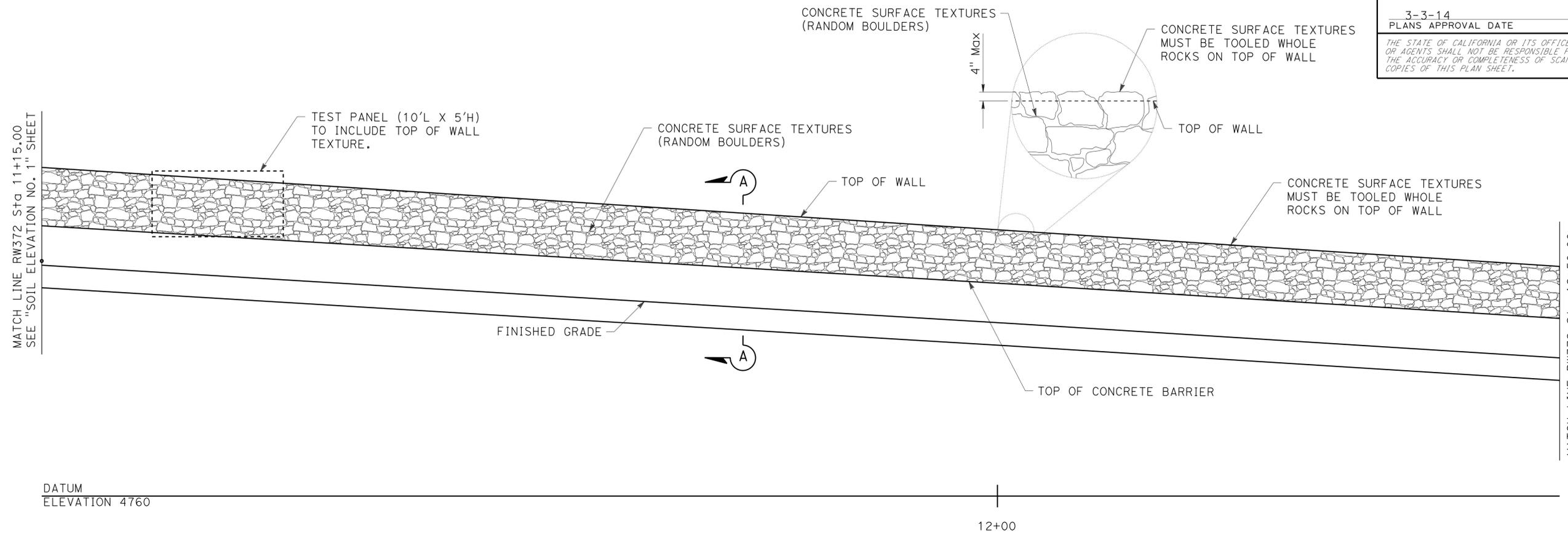
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 19

BRIDGE NO.	54E0122
POST MILE	7.04

RETAINING WALL NO. 372
ARCHITECTURAL TREATMENT NO. 1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1152	1168
 LICENSED LANDSCAPE ARCHITECT					
3-3-14 PLANS APPROVAL DATE					
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MIRRORED DEVELOPED ELEVATION
 1" = 5'-0"

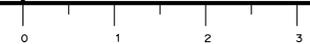
DESIGN	BY MATTHEW HALL	CHECKED RAY DESSELLE
DETAILS	BY MATTHEW HALL	CHECKED RAY DESSELLE
QUANTITIES	BY H. Win	CHECKED V. Altamirano

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 19

BRIDGE NO.	54E0122
POST MILE	7.04

RETAINING WALL NO. 372
ARCHITECTURAL TREATMENT NO. 2



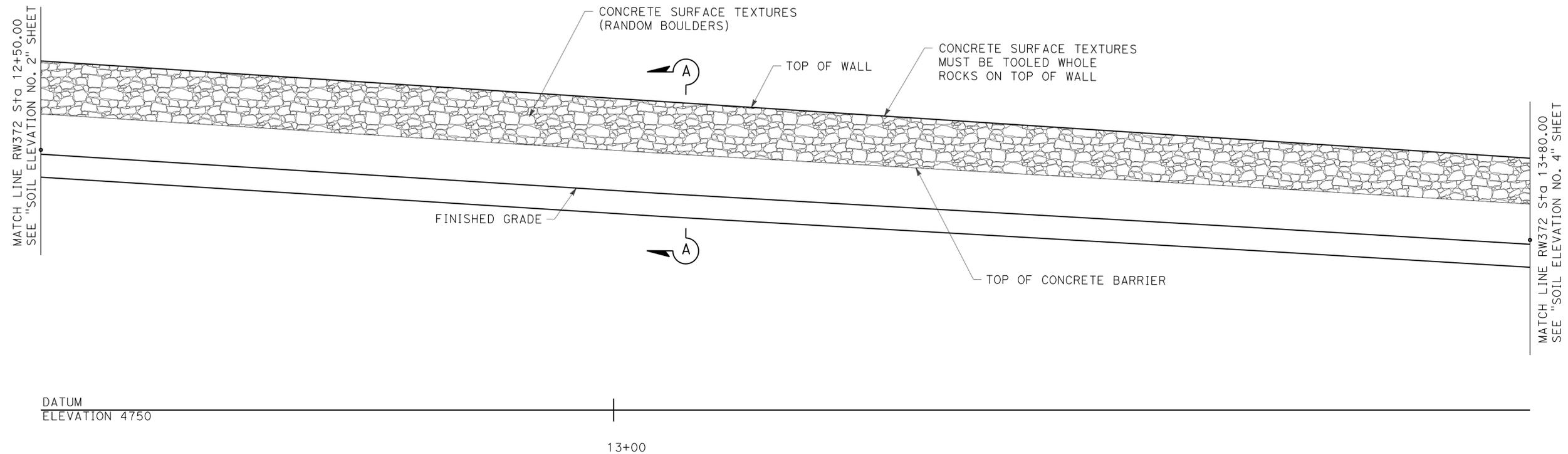
REVISION DATES	SHEET	OF
03-06-13 4-16-13 5-05-13	14	19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1153	1168

Signature: *Matthew Hall*
 LICENSED LANDSCAPE ARCHITECT
 3-3-14
 PLANS APPROVAL DATE

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

LICENSED LANDSCAPE ARCHITECT
 Signature: *Matthew Hall*
 10/31/2013
 9/05/2013
 STATE OF CALIFORNIA



MIRRORED DEVELOPED ELEVATION
 1" = 5'-0"

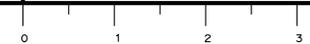
DESIGN	BY MATTHEW HALL	CHECKED RAY DESSELLE
DETAILS	BY MATTHEW HALL	CHECKED RAY DESSELLE
QUANTITIES	BY H. Win	CHECKED V. Altamirano

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 19

BRIDGE NO.	54E0122
POST MILE	7.04

RETAINING WALL NO. 372
 ARCHITECTURAL TREATMENT NO. 3



REVISION DATES	SHEET	OF
03-06-13 4-16-13 5-05-13	15	19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1154	1168

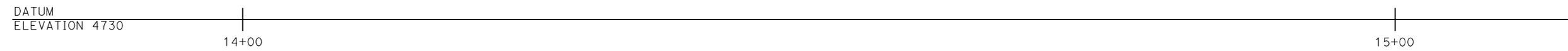
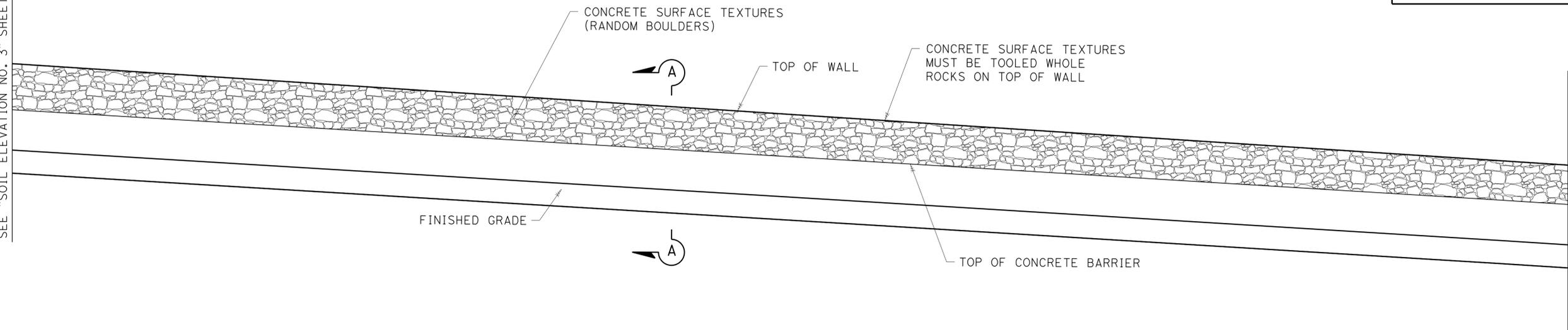

 LICENSED LANDSCAPE ARCHITECT
 3-3-14
 PLANS APPROVAL DATE



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MATCH LINE RW372 Sta 13+80.00
SEE "SOIL ELEVATION NO. 3" SHEET

MATCH LINE RW372 Sta 15+15.00
SEE "SOIL ELEVATION NO. 5" SHEET



MIRRORED DEVELOPED ELEVATION
1" = 5'-0"

DESIGN	BY MATTHEW HALL	CHECKED RAY DESSELLE
DETAILS	BY MATTHEW HALL	CHECKED RAY DESSELLE
QUANTITIES	BY H. Win	CHECKED V. Altamirano

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 19

BRIDGE NO.	54E0122
POST MILE	7.04

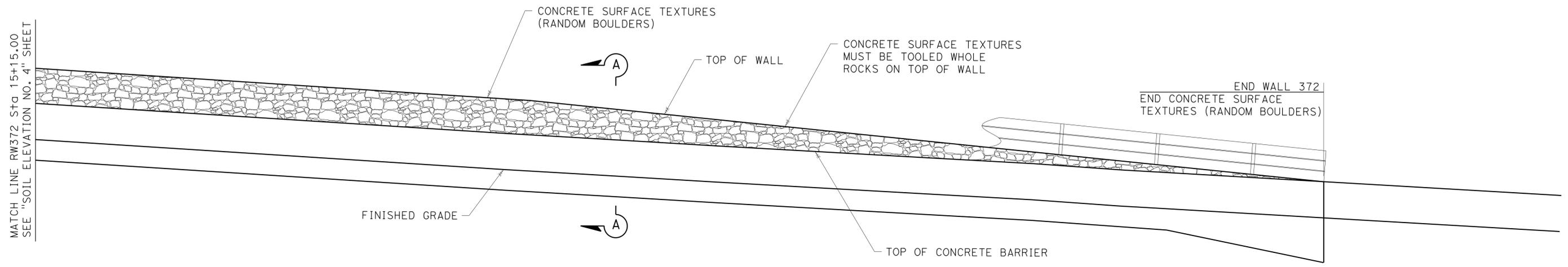
RETAINING WALL NO. 372
ARCHITECTURAL TREATMENT NO. 4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1155	1168

Signature: *Matthew Hall*
 LICENSED LANDSCAPE ARCHITECT
 3-3-14
 PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT
 Signature: *Matthew Hall*
 10/31/2013
 9/05/2013
 STATE OF CALIFORNIA



DATUM
ELEVATION 4730

MIRRORED DEVELOPED ELEVATION
1" = 5'-0"

16+00

DESIGN	BY MATTHEW HALL	CHECKED RAY DESSELLE
DETAILS	BY MATTHEW HALL	CHECKED RAY DESSELLE
QUANTITIES	BY H. Win	CHECKED V. Altamirano

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

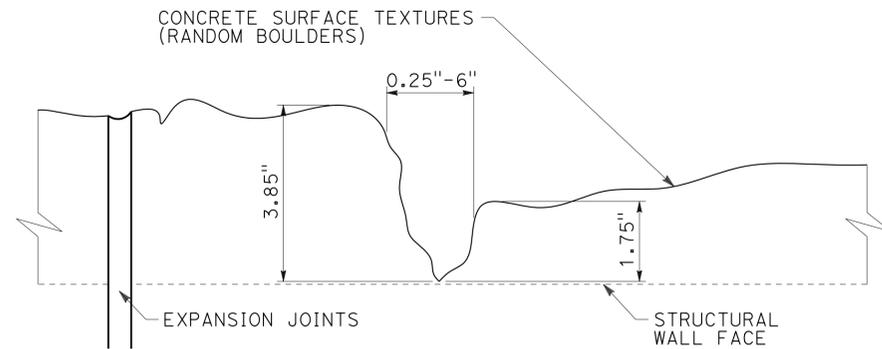
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 19

BRIDGE NO.	54E0122
POST MILE	7.04

RETAINING WALL NO. 372
ARCHITECTURAL TREATMENT NO. 5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1156	1168

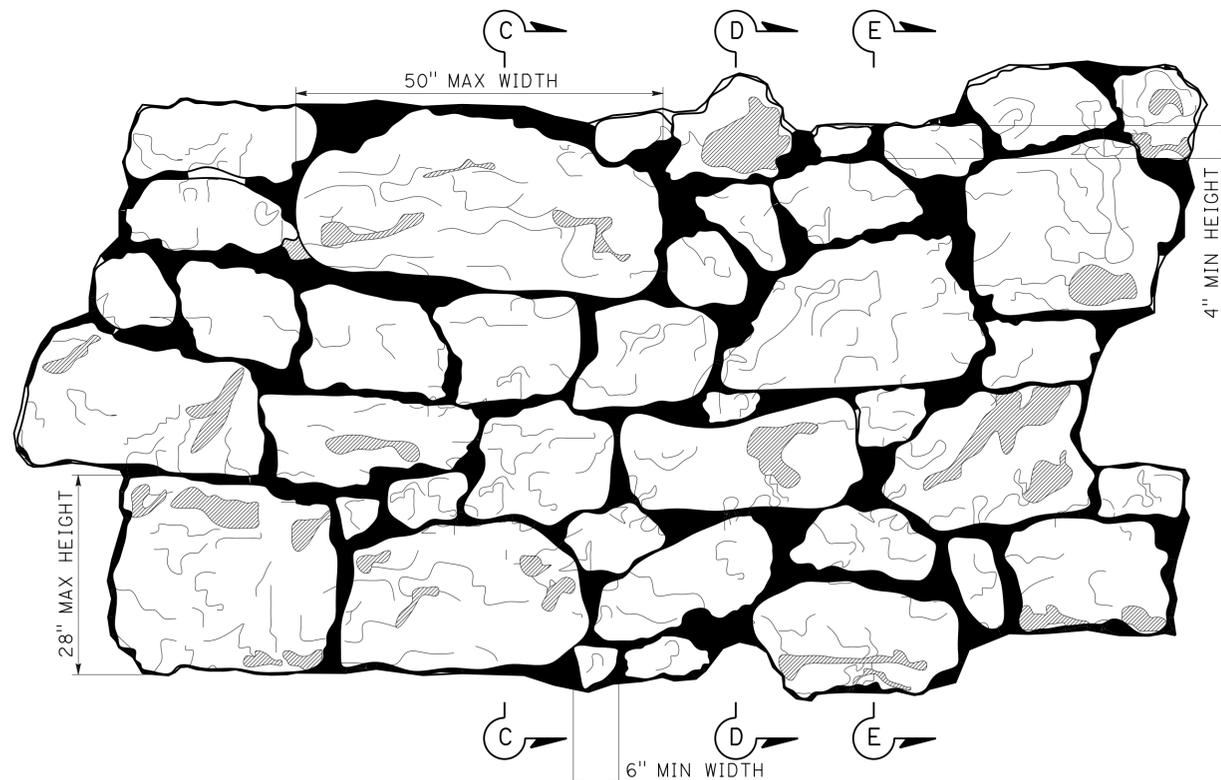
Signature: *Matthew DeWitt*
 LICENSED LANDSCAPE ARCHITECT
 3-3-14
 PLANS APPROVAL DATE
 Signature: *Matthew DeWitt*
 10/31/2013
 Signature: *Matthew DeWitt*
 9/05/2013
 STATE OF CALIFORNIA
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NOTE: CONCRETE SURFACE TEXTURES (RANDOM BOULDERS) WILL BE CONTINUED THROUGH EXPANSION JOINTS

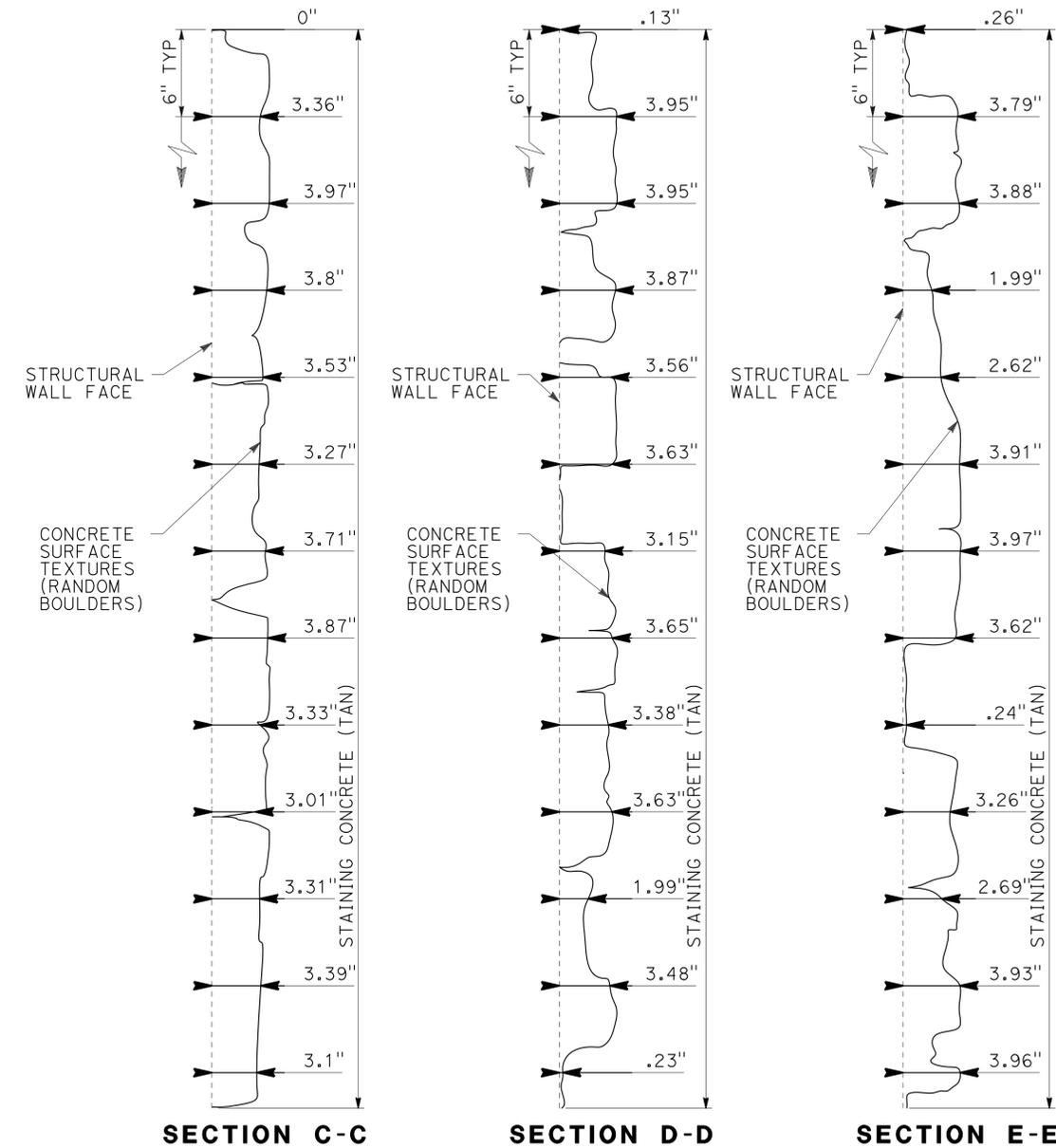
EXPANSION JOINTS DETAIL FOR CONCRETE SURFACE TEXTURES (RANDOM BOULDERS)

NO SCALE



RANDOM BOULDER ELEVATION

SCALE: 1"=1'-0"



NOTE: MAX DEPTH OF 4"

RANDOM BOULDER SECTIONS C,D,E

SCALE: 2"=1'-0"

DESIGN	BY M. Hall	CHECKED R. Desselle	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	RETAINING WALL NO. 372 ARCHITECTURAL TREATMENT DETAIL
DETAILS	BY M. Hall	CHECKED R. Desselle			54E0122	
QUANTITIES	BY H. Win	CHECKED V. Altamirano			POST MILE 7.04	

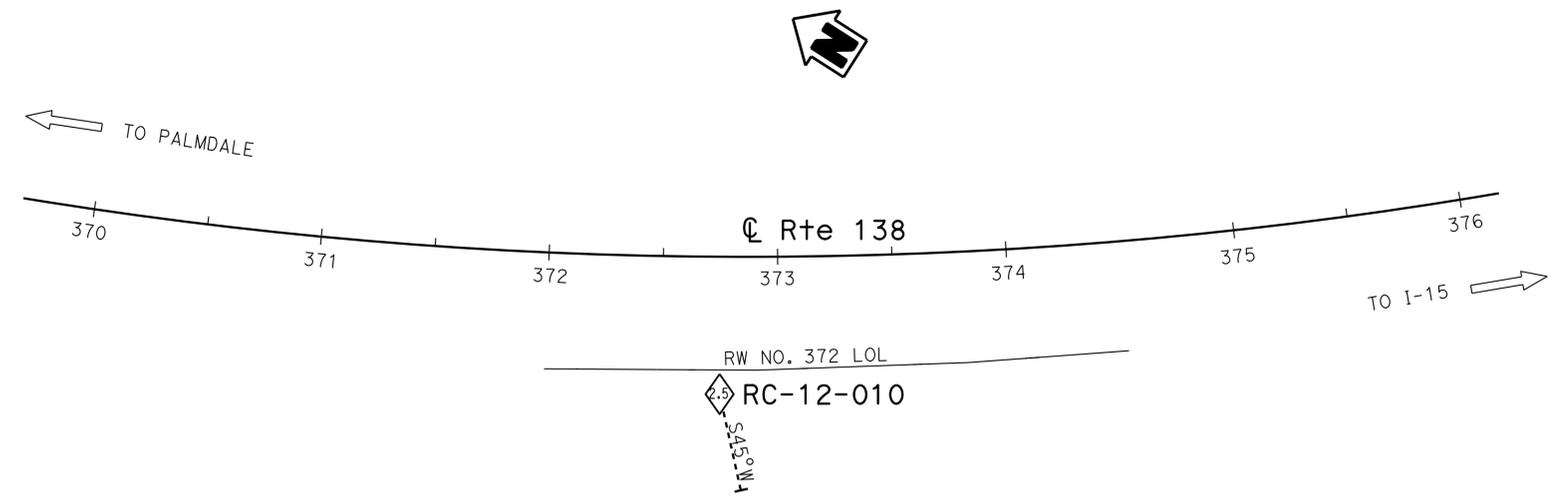
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3621 PROJECT NUMBER & PHASE: 0800000609 - 1 CONTRACT NO.: 08-3401U1 DISREGARD PRINTS BEARING EARLIER REVISION DATES 06-05-13 18 19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1157	1168

Chris Hoadley
 CERTIFIED ENGINEERING GEOLOGIST
 11-08-13 DATE
 3-3-14 PLANS APPROVAL DATE
 PROFESSIONAL GEOLOGIST
 Chris Hoadley
 No. 2309
 Exp. 11-23-13
 CERTIFIED ENGINEERING GEOLOGIST
 STATE OF CALIFORNIA
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BENCH MARK

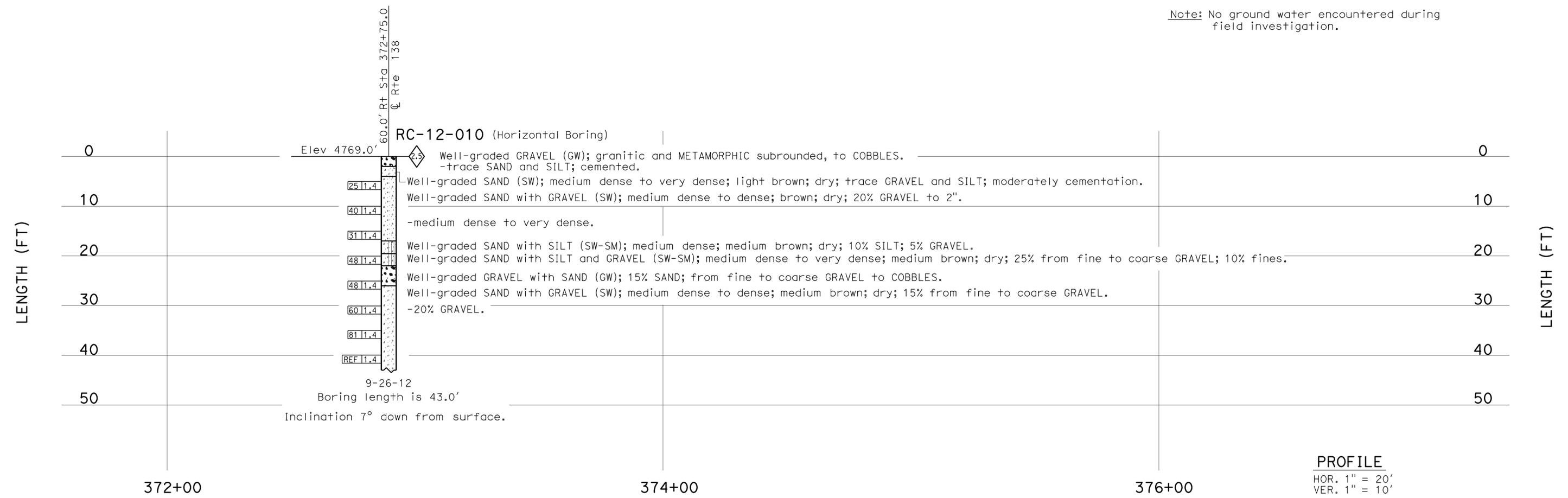
Set STD brass stamped "SBd 138 GPS 7.00 1999", 50' Westerly Yellow Stripe Rte 138 at top of cut in saddle area, at PM 7.0 NAD 83 (Vertical) Zone 5.



PLAN

1" = 40'

Note: No ground water encountered during field investigation.



PROFILE

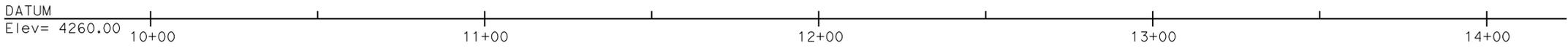
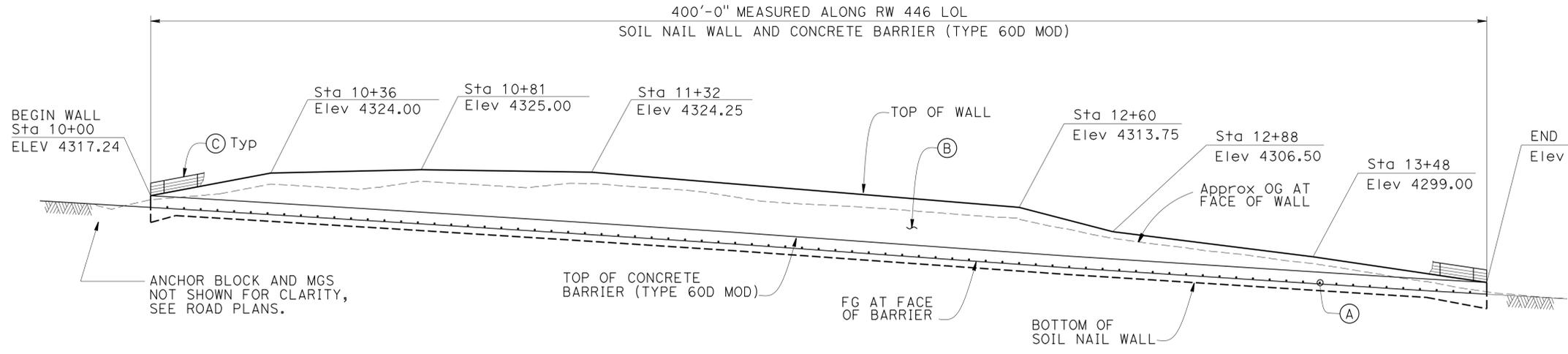
HOR. 1" = 20'
VER. 1" = 10'

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		RETAINING WALL NO. 372	
FUNCTIONAL SUPERVISOR		DRAWN BY: F. Nguyen		DEPARTMENT OF TRANSPORTATION		STRUCTURE DESIGN		54E0122		LOG OF TEST BORINGS	
NAME: S. Wei		CHECKED BY: M. Wilson		FIELD INVESTIGATION BY: C. Hoadley		DESIGN BRANCH 19		POST MILE			
06S CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		PROJECT NUMBER & PHASE: 08000006091		CONTRACT NO.: 08-3401U1		REVISION DATES	
				0 1 2 3		FILE => 54-rw372-z-1otb.dgn		DISREGARD PRINTS BEARING EARLIER REVISION DATES		10-18-12 11-08-13 12-14-12	
										SHEET 19 OF 19	

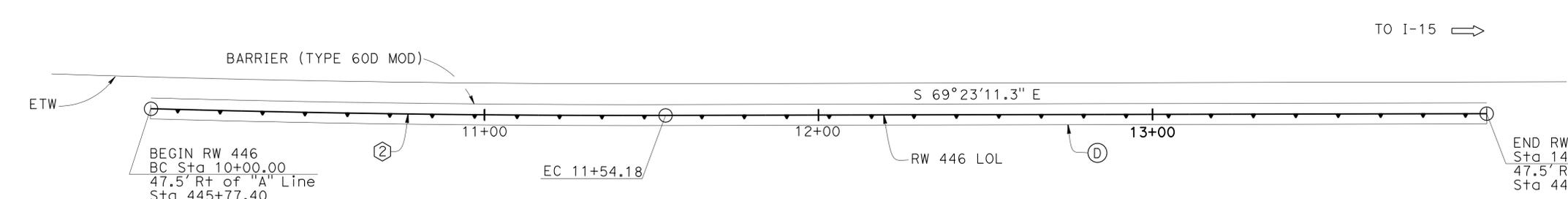
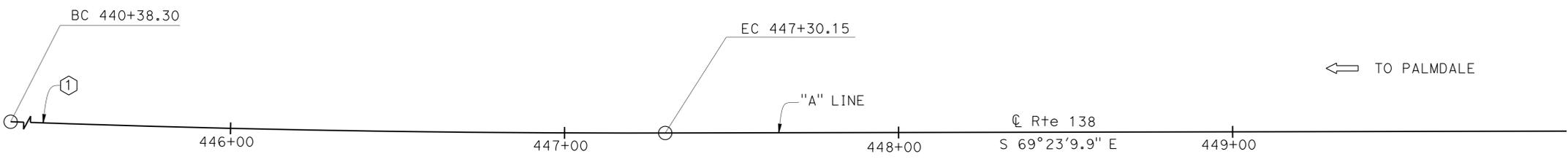
USERNAME => s124496 DATE PLOTTED => 07-MAR-2014 TIME PLOTTED => 12:47

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1158	1168

10-03-13
 REGISTERED CIVIL ENGINEER DATE
 B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA
 3-3-14
 PLANS APPROVAL DATE
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MIRRORED DEVELOPED ELEVATION
1" = 20'



PLAN
1" = 20'

LEGEND:
 Indicates direction of traffic flow

CURVE DATA

No.	R	Δ	T	L
①	5085.292'	07°47'42.0"	346.459'	691.849'
②	5132.422'	01°43'16.3"	77.096'	154.180'

QUANTITIES

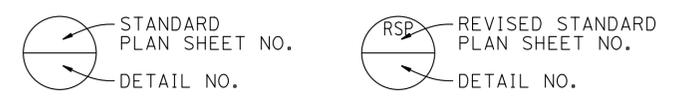
STRUCTURE EXCAVATION (SOIL NAIL WALL)	432	CY
STRUCTURE BACKFILL (SOIL NAIL WALL)	35	CY
SOIL NAIL	5,548	LF
STRUCTURAL CONCRETE, RETAINING WALL	193	CY
CONCRETE SURFACE TEXTURE	5,199	SQFT
BAR REINFORCING STEEL (RETAINING WALL)	35,551	LB
STRUCTURAL SHOTCRETE	84	CY
PREPARE AND STAIN CONCRETE	5,189	SQFT
GEOCOMPOSITE DRAIN	4,644	SQFT
MINOR CONCRETE (GUTTER) (CY)	14	CY
CABLE RAILING (MODIFIED)	400	LF
CONCRETE BARRIER (TYPE 60D MODIFIED)	400	LF

INDEX TO PLANS

Sheet No.	Title
1	GENERAL PLAN
2	FOUNDATION PLAN
3	SOIL NAIL ELEVATION NO. 1
4	SOIL NAIL ELEVATION NO. 2
5	SOIL NAIL WALL DETAILS
6	SOIL NAIL ASSEMBLY
7	MISCELLANEOUS DETAILS
8	ARCHITECTURAL TREATMENT NO. 1
9	ARCHITECTURAL TREATMENT NO. 2
10	ARCHITECTURAL TREATMENT DETAIL
11	LOG OF TEST BORINGS

STANDARD PLANS DATED 2010

RSP A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
A10F	LEGEND-SOIL (SHEET 1 OF 2)
A10G	LEGEND-SOIL (SHEET 2 OF 2)
A10H	LEGEND-ROCK
BO-3	BRIDGE DETAILS
B3-6	RETAINING WALL DETAIL NO. 2
RSP B11-47	CABLE RAILING



NOTES:

- (A) Weep hole between Soil Nails, see "MISCELLANEOUS DETAILS" sheet.
- (B) Concrete Surface Texture, see "ARCHITECTURAL TREATMENT" sheets.
- (C) Cable Railing
- (D) Gutter
- (E) For GENERAL NOTES, see "SOIL NAIL WALL DETAILS" sheet.
- (F) Stain all exposed concrete to 1' below top of concrete barrier.

B. Gunter DESIGN ENGINEER	DESIGN	BY A. Vega	CHECKED W. Hsia	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	RETAINING WALL NO. 446 GENERAL PLAN
	DETAILS	BY S. Pink/ M. Tran/ H. I.	CHECKED W. Hsia	LAYOUT	BY S. Pink			CHECKED A. Vega	
	QUANTITIES	BY H. Win	CHECKED V. Altamirano	SPECIFICATIONS	BY S. Seifert	CHECKED W. Siu	PLANS AND SPECS COMPARED	POST MILE	8.5

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 UNIT: 3621
 PROJECT NUMBER & PHASE: 0800000609 - 1 CONTRACT NO.: 08-3401U1
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 04/05/13, 12/12/13, 11/14/13
 SHEET 1 OF 11
 USERNAME => s124496 DATE PLOTTED => 07-MAR-2014 TIME PLOTTED => 12:47

No.	R	Δ	T	L
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②	5132.422	01°43'16"	77.096	154.180

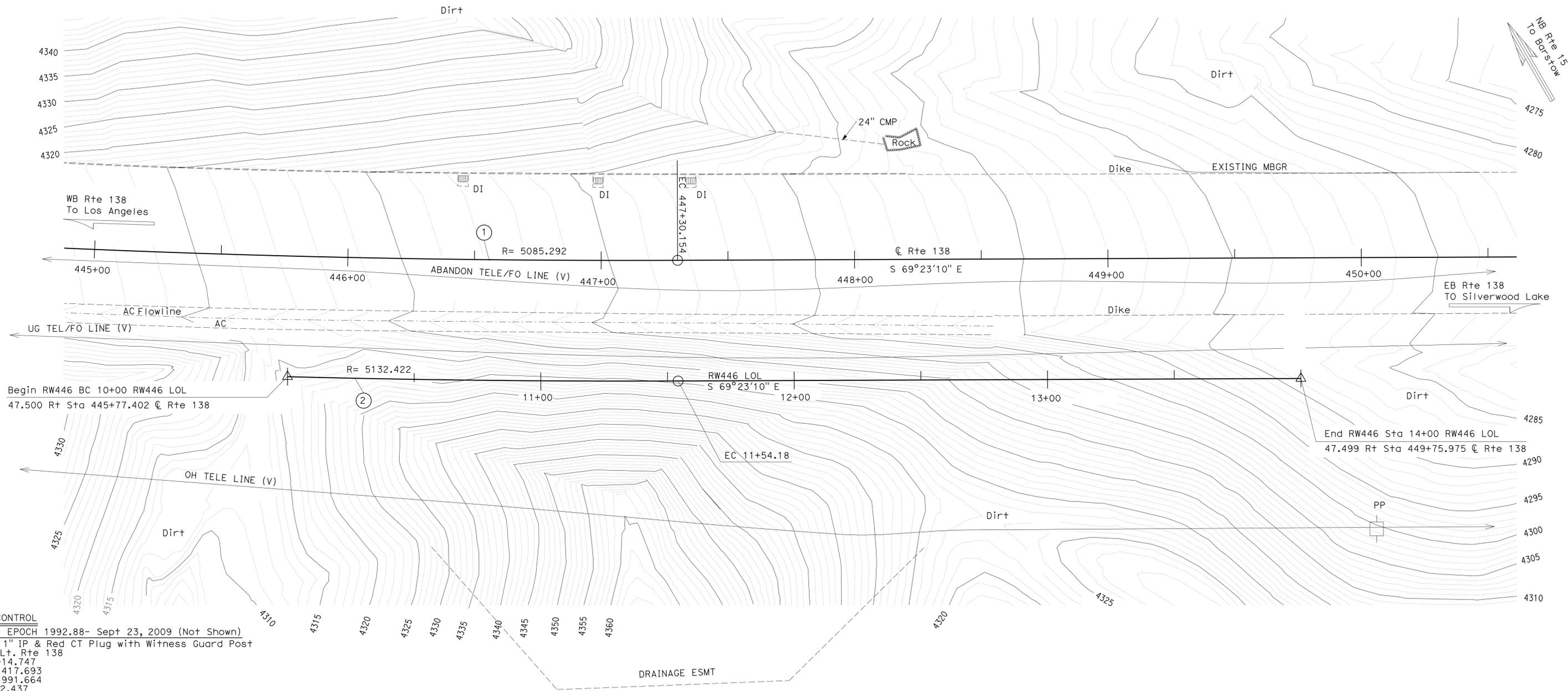
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.27/6.4, 2.3/R15.2	1159	1168

Walt Lutz 8-27-2013
 REGISTERED CIVIL ENGINEER DATE

3-3-14
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA



SURVEY CONTROL

CTRL101- EPOCH 1992.88- Sept 23, 2009 (Not Shown)
 PD: Set 1" IP & Red CT Plug with Witness Guard Post
 168.956 Lt. Rte 138
 Sta 404+14.747
 N 1 961 417.693
 E 6 692 991.664
 Elev 4572.437

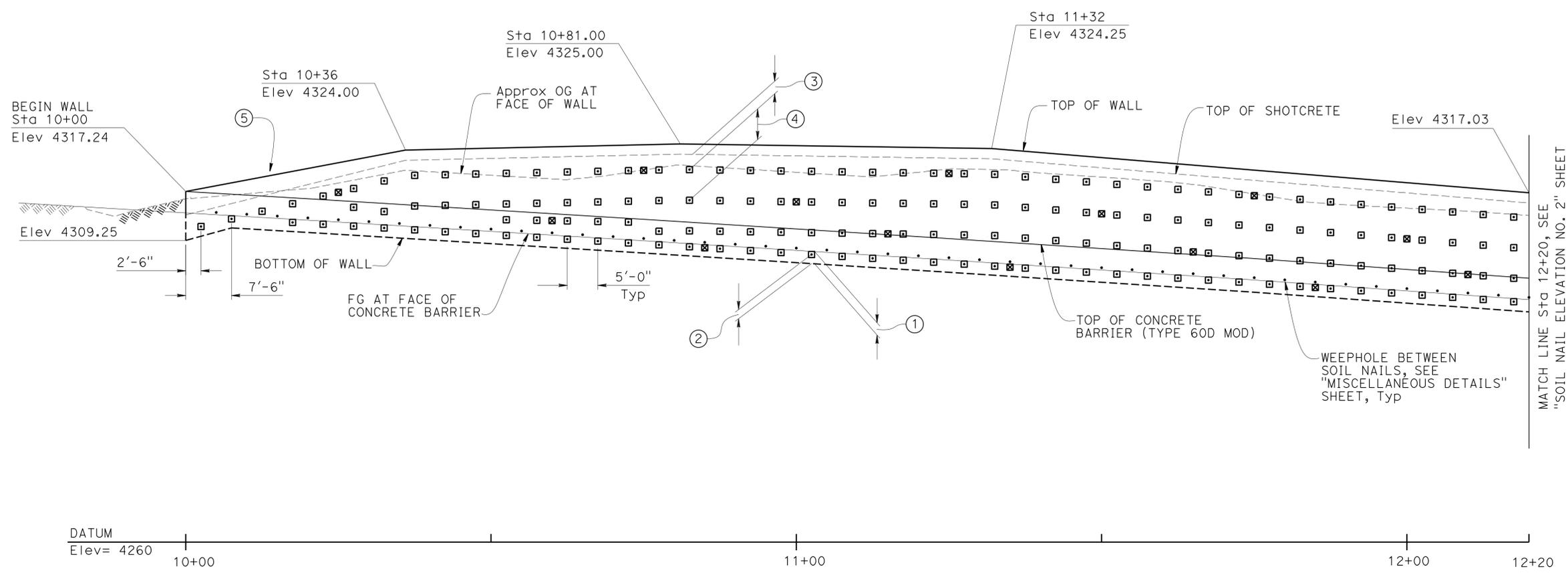
CTRL102- EPOCH 1992.88- Sept 23, 2009 (not shown)
 PD: Set 1" IP & Red CT Plug with Witness Guard Post
 140.386 Rt. Rte 138
 Sta 401+57.674
 N 1 961 293.802
 E 6 692 609.002
 Elev 4714.489

NOTE:
 Underground utilities as shown are approximate.
 See District Utility Plans for details.

PRELIMINARY INVESTIGATION SECTION				DESIGN BY A. Vega	CHECKED W. Hsia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO. 54E0121	RETAINING WALL NO. 446 FOUNDATION PLAN	
SCALE 1"=20'	VERT. DATUM NGVD1929	PHOTOGRAMMETRY AS OF: X	DETAILS BY H. Mahboobi / H. I.	CHECKED W. Hsia	POST MILE 8.5					
ALIGNMENT TIES Dist. Traverse Sheet	DRAFTED BY C. Pham	CHECKED BY E. Viajar	QUANTITIES BY H. Win	CHECKED V. Altamirano						
STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3647 PROJECT NUMBER & PHASE: 0800000609 - 1 CONTRACT NO.: 08-3401U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 2 OF 11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1160	1168

8-27-2013
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE
 B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA
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MIRRORED DEVELOPED ELEVATION
1" = 10'-0"

LEGEND:

- Soil nail
- Proof test nail or as directed by the engineer.

NOTES:

- ① See ROAD PLANS for FG at Face of Barrier. Bottom of wall is 2'-0" below FG at Face of Barrier, UON.
- ② Bottom row of Soil Nails shall be 1'-6" from bottom of wall.
- ③ Vertical distance from top of shotcrete to top row of Soil Nails shall be 2'-6".
- ④ Vertical spacing of Soil Nails shall be no more than 5'-0" and no less than 2'-0".
- ⑤ Cable Railing not shown for clarity.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	DESIGN	BY A. Vega	CHECKED W. Hsia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	54E0121	RETAINING WALL NO. 446 SOIL NAIL ELEVATION NO. 1
	DETAILS	BY S. Pink/ M. Tran/ H. I.	CHECKED W. Hsia			POST MILE	8.5	
	QUANTITIES	BY H. Win	CHECKED V. Altamirano					
UNIT: 3621 PROJECT NUMBER & PHASE: 0800000609 - 1 CONTRACT NO.: 08-3401U1					DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 05-09-13 08-08-13 08-28-13	SHEET 3 OF 11

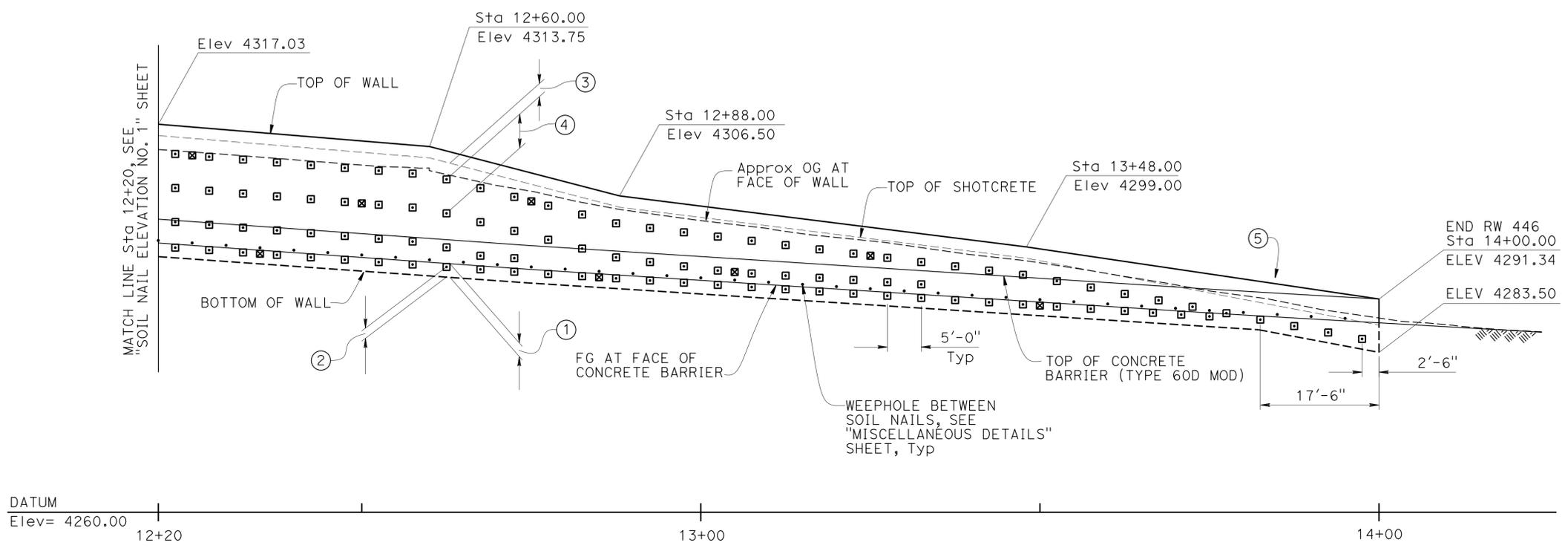
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 DATE PLOTTED => 07-MAR-2014
 USERNAME => s124496

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4 2.3/R15.2	1161	1168

8-27-2013
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE

B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA

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MIRRORED DEVELOPED ELEVATION
1" = 10'-0"

LEGEND:

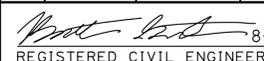
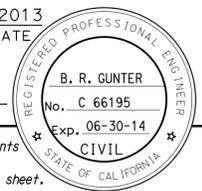
- Soil nail
- Proof test nail or as directed by the engineer.

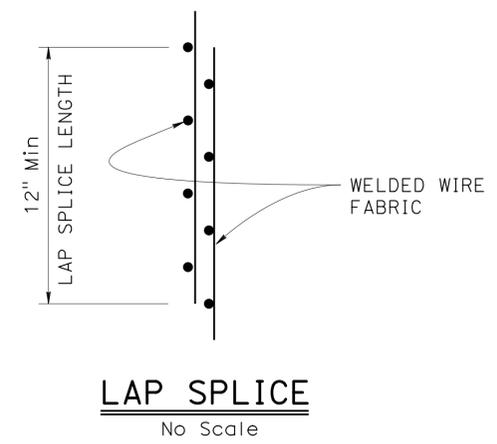
NOTES:

- ① See ROAD PLANS for FG at Face of Barrier. Bottom of wall is 2'-0" below FG at Face of Barrier, UON.
- ② Bottom row of Soil Nails shall be 1'-6" from bottom of wall.
- ③ Vertical distance from top of shotcrete to top row of Soil Nails shall be 2'-6".
- ④ Vertical spacing of Soil Nails shall be no more than 5'-0" and no less than 2'-0".
- ⑤ Cable Railing not shown for clarity.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY A. Vega	CHECKED W. Hsia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	54E0121	RETAINING WALL NO. 446 SOIL NAIL ELEVATION NO. 2	
	DETAILS	BY S. Pink/ M. Tran / H. I.	CHECKED W. Hsia			POST MILE	8.5		
	QUANTITIES	BY H. Win	CHECKED V. Altamirano						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3621	PROJECT NUMBER & PHASE: 0800000609 - 1	CONTRACT NO.: 08-3401U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 05-09-13 08-06-13 08-27-13	SHEET OF 4 11

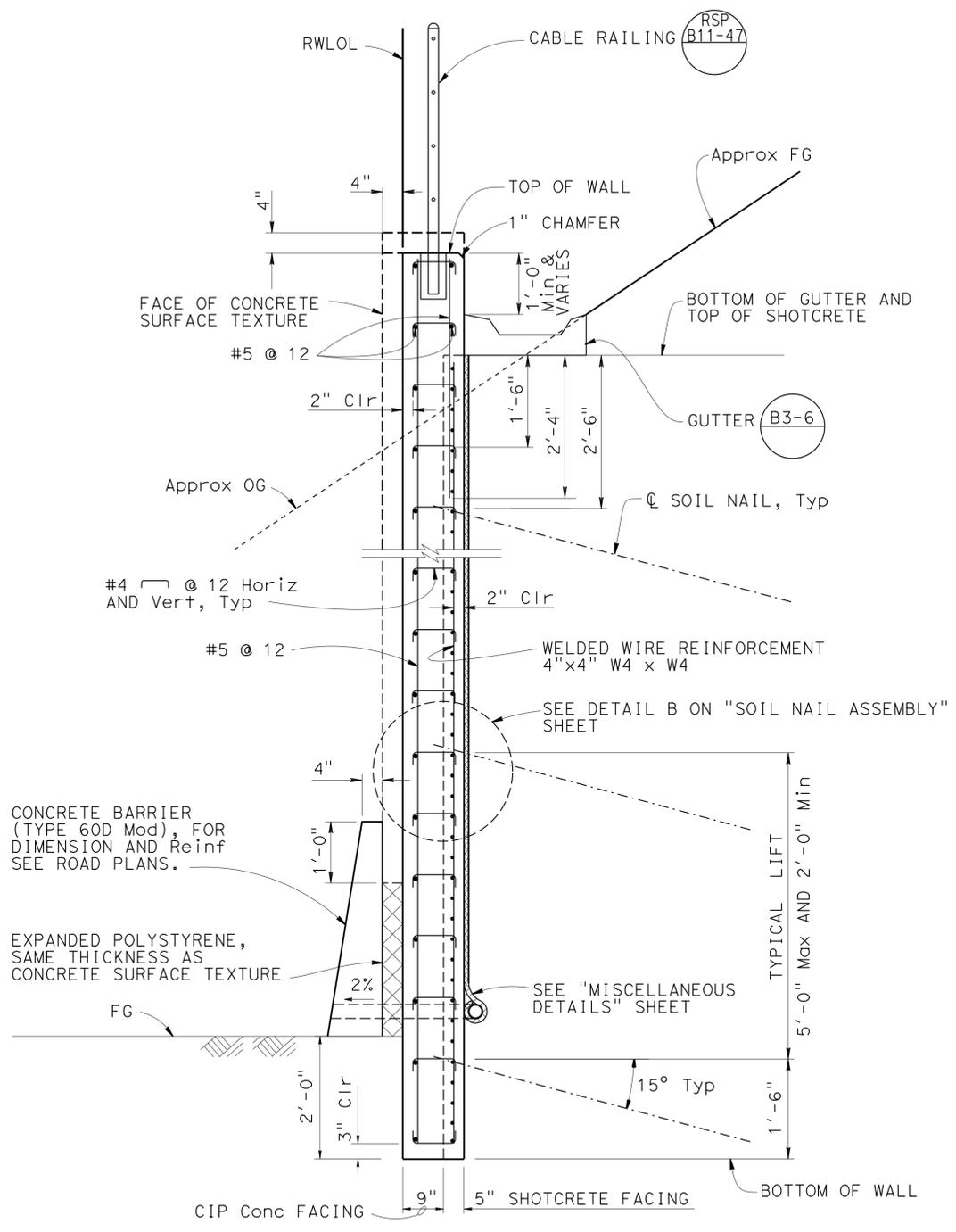
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1162	1168
 8-27-2013 REGISTERED CIVIL ENGINEER DATE					
3-3-14				PLANS APPROVAL DATE	
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



NOTES:

- ① Wall height is the vertical distance from the top of shotcrete to the bottom of the wall. Top of shotcrete is at the bottom of gutter.
- ② Inclination angle of nails is 15 degrees measured from horizontal.
- ③ First row of the nails is placed 2'-6" below the top of shotcrete, and nail spacing needs to be adjusted in area with geometric constraints.
- ④ Q_D = Design pullout resistance.
- ⑤ The nail length shall be at least 10'-0". For different wall heights, the minimum nail length in feet is $H+5'-0"$, where H is the maximum wall height in feet for a specific wall section.
- ⑥ For soil nail locations, see "SOIL NAIL ELEVATION" sheets.



SOIL NAIL WALL TYPICAL SECTION
 $\frac{3}{4}'' = 1'-0''$

GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

DESIGN CRITERIA:	AASHTO LRFD bridge design specifications, 4th edition with caltrans amendments
LOADING:	Level ground with 2 feet surcharge
DESIGN SOIL PARAMETERS:	ϕ = Longterm drained friction angle 32° γ = Unit weight of soil 125 lb/ft ³
REINFORCED CONCRETE AND SHOTCRETE:	ASTM A706 f_y = 60 ksi (yield strength of reinforcement) f'_c = 3600 psi (minimum concrete strength at 28 days)
STRUCTURAL STEEL:	ASTM A36 f_y = 36 ksi
SOIL NAIL:	ASTM A615 / A615m Grade 75, f_y = 75 ksi

SOIL NAIL WALL DESIGN TABLE

ZONE	STATION	WALL HEIGHT (H)	MINIMUM NAIL LENGTH (LE)	MAXIMUM NAIL SPACING VERTICAL	MAXIMUM NAIL SPACING HORIZONTAL	Q_D (lbs/ft)
1	10+00 to 14+00	4' to 19'	See Note 5	5'-0"	5'-0"	3000

DESIGN BY A. Vega CHECKED W. Hsia DETAILS BY M. Tran / H. I. CHECKED W. Hsia QUANTITIES BY H. Win CHECKED V. Altamirano	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO. 54E0121	RETAINING WALL NO. 446 SOIL NAIL WALL DETAILS
			POST MILE 8.5	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			UNIT: 3621 PROJECT NUMBER & PHASE: 0800000609 - 1 CONTRACT NO.: 08-3401U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			REVISION DATES: 05-09-13, 08-06-13, 08-28-13	SHEET 5 OF 11

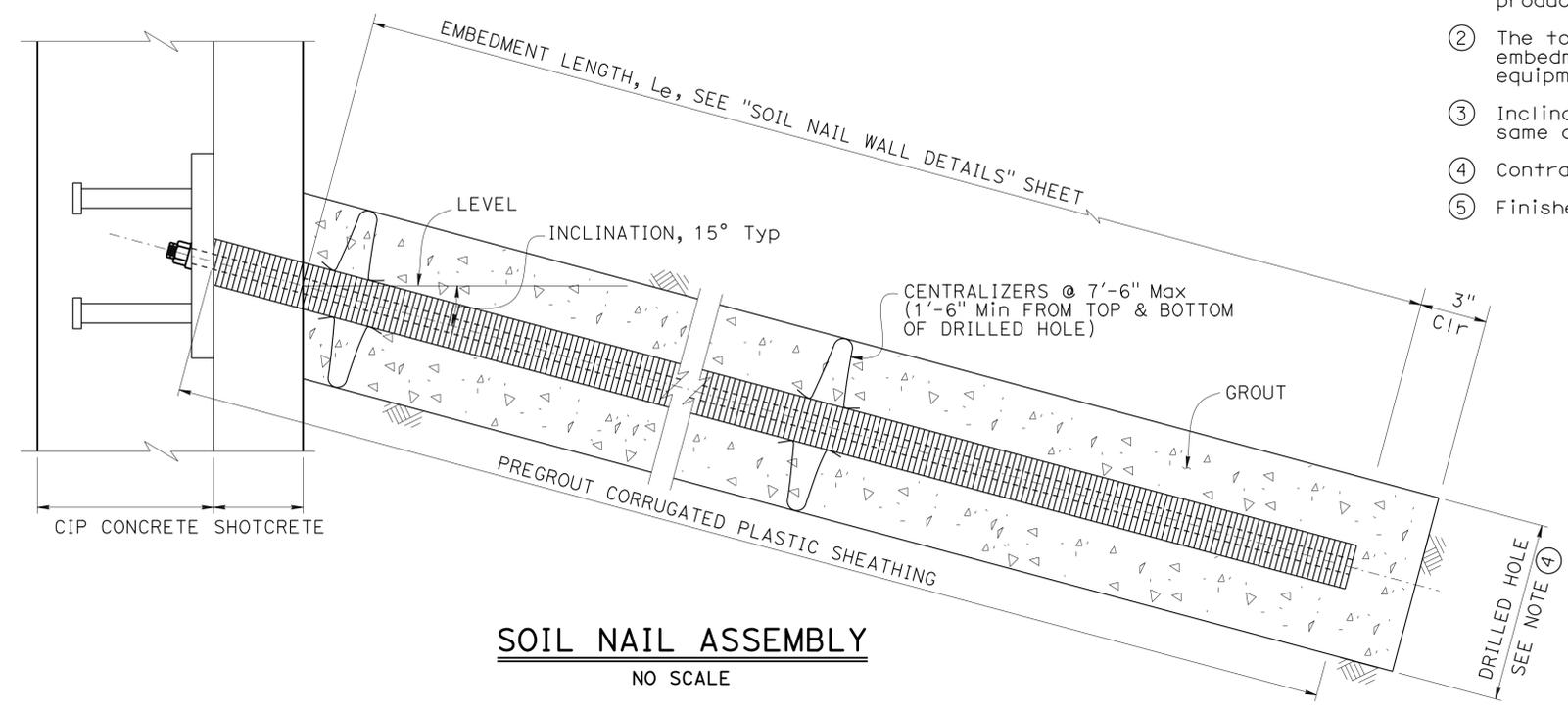
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1163	1168

8-27-2013
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE
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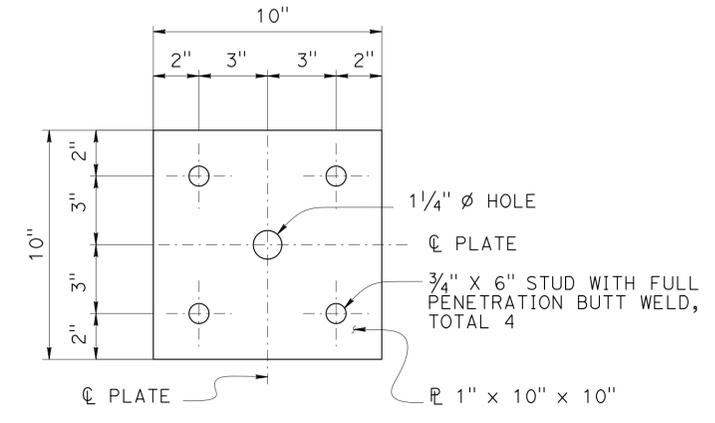
REGISTERED PROFESSIONAL ENGINEER
 B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA

NOTES:

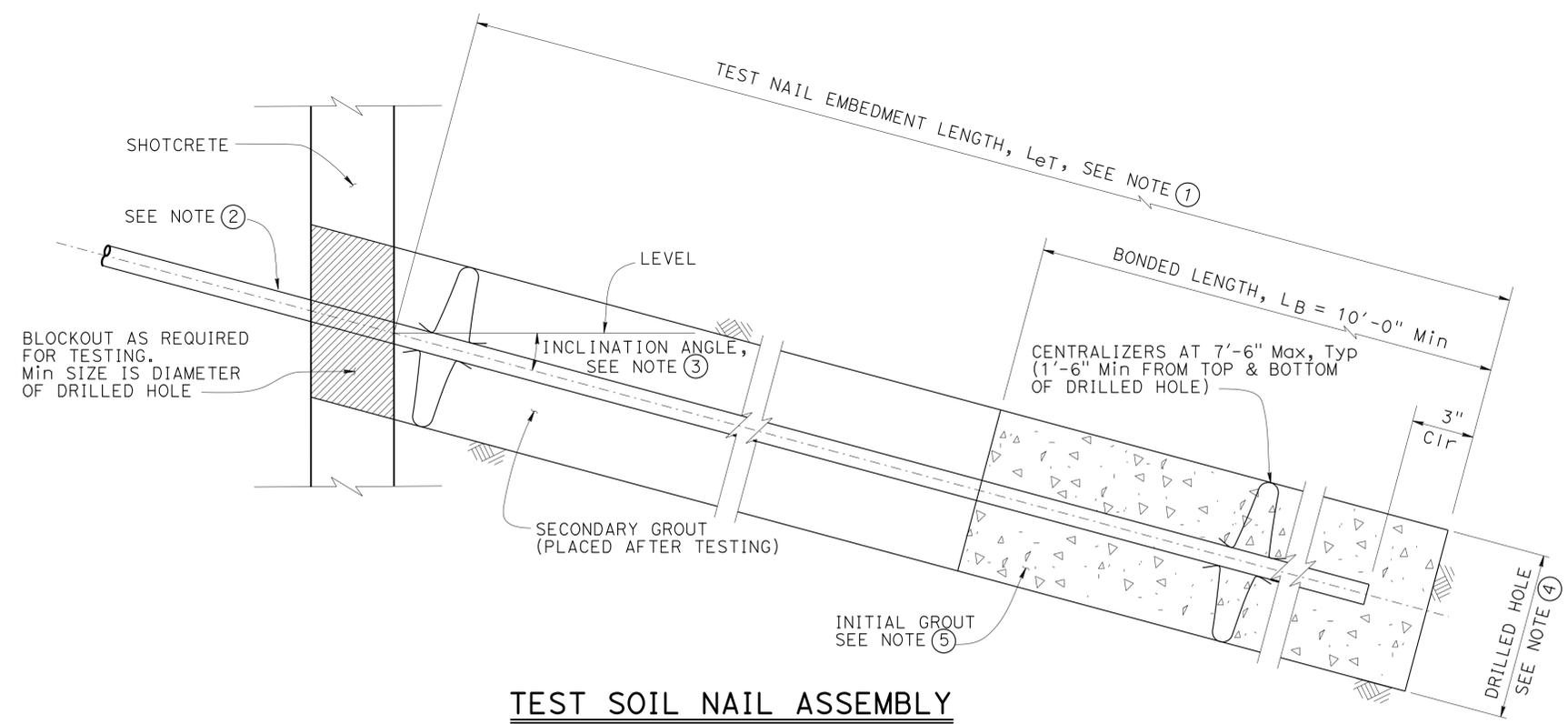
- ① The test nail embedment length, L_{eT} , shall be equal to 2/3 of the embedment length, L_e , of adjacent production soil nail assemblies, but not less than 12'-0".
- ② The total length of the test nail assembly equals the embedment length plus the length required for jacking equipment.
- ③ Inclination of proof test soil nail assembly to be the same as adjacent soil nail assembly.
- ④ Contractor to determine drilled hole diameter.
- ⑤ Finished grout surface to be normal to the bar.



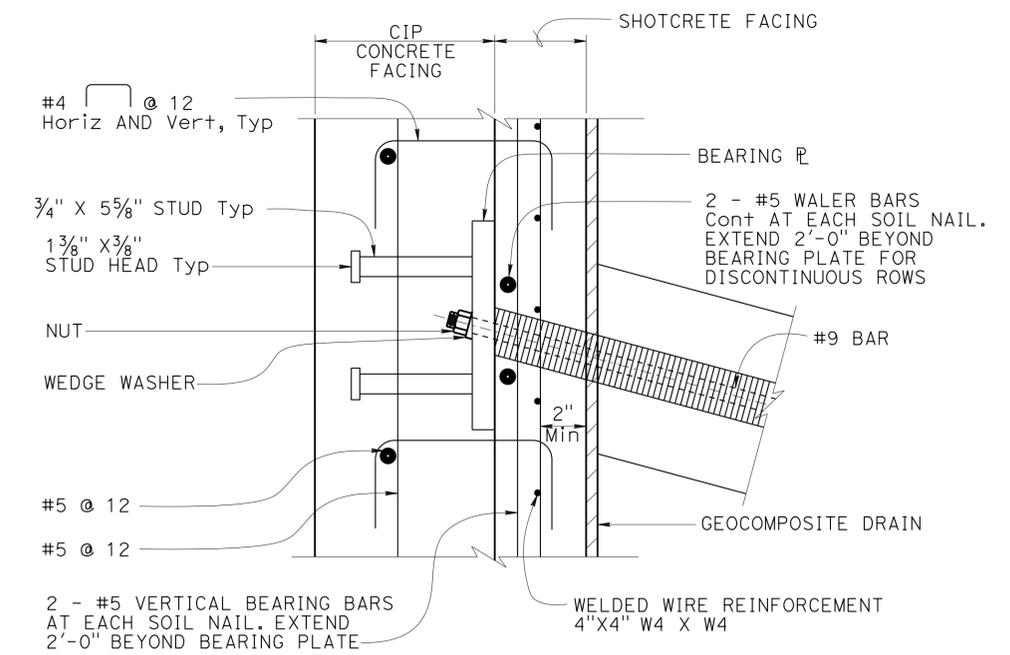
SOIL NAIL ASSEMBLY
NO SCALE



BEARING PLATE DETAIL
NO SCALE



TEST SOIL NAIL ASSEMBLY
NO SCALE



DETAIL B
NO SCALE

DESIGN	BY A. Vega	CHECKED W. Hsia
DETAILS	BY M. Tran / H. I.	CHECKED W. Hsia
QUANTITIES	BY H. Win	CHECKED V. Altamirano

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
BRIDGE NO. 54E0121
POST MILE 8.5
DESIGN BRANCH 19

BRIDGE NO. 54E0121
POST MILE 8.5

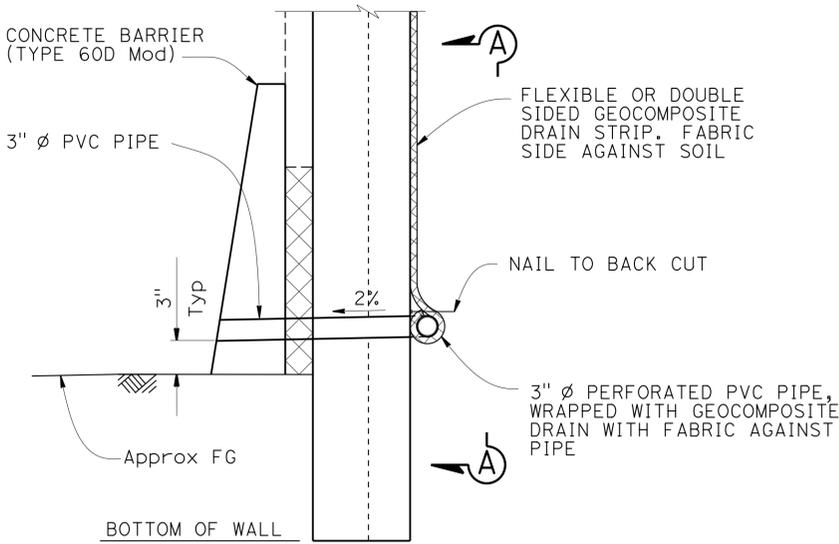
RETAINING WALL NO. 446
SOIL NAIL ASSEMBLY

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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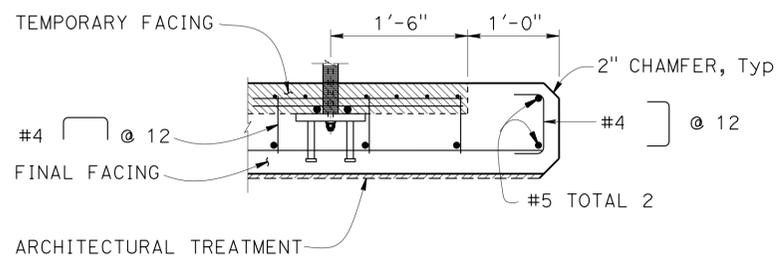
8-27-2013
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE
 B. R. GUNTER
 No. C 66195
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA
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LEGEND:

-  Structure excavation (soil nail wall)
-  Structure backfill (soil nail wall)

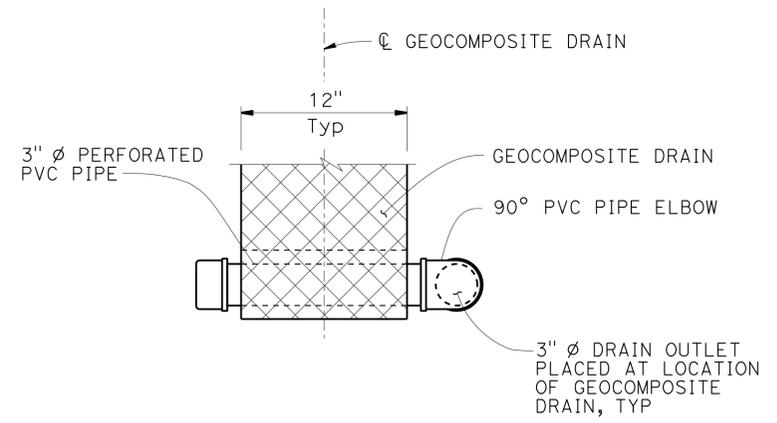


WALL DRAIN DETAIL AT WEEP HOLE
NO SCALE



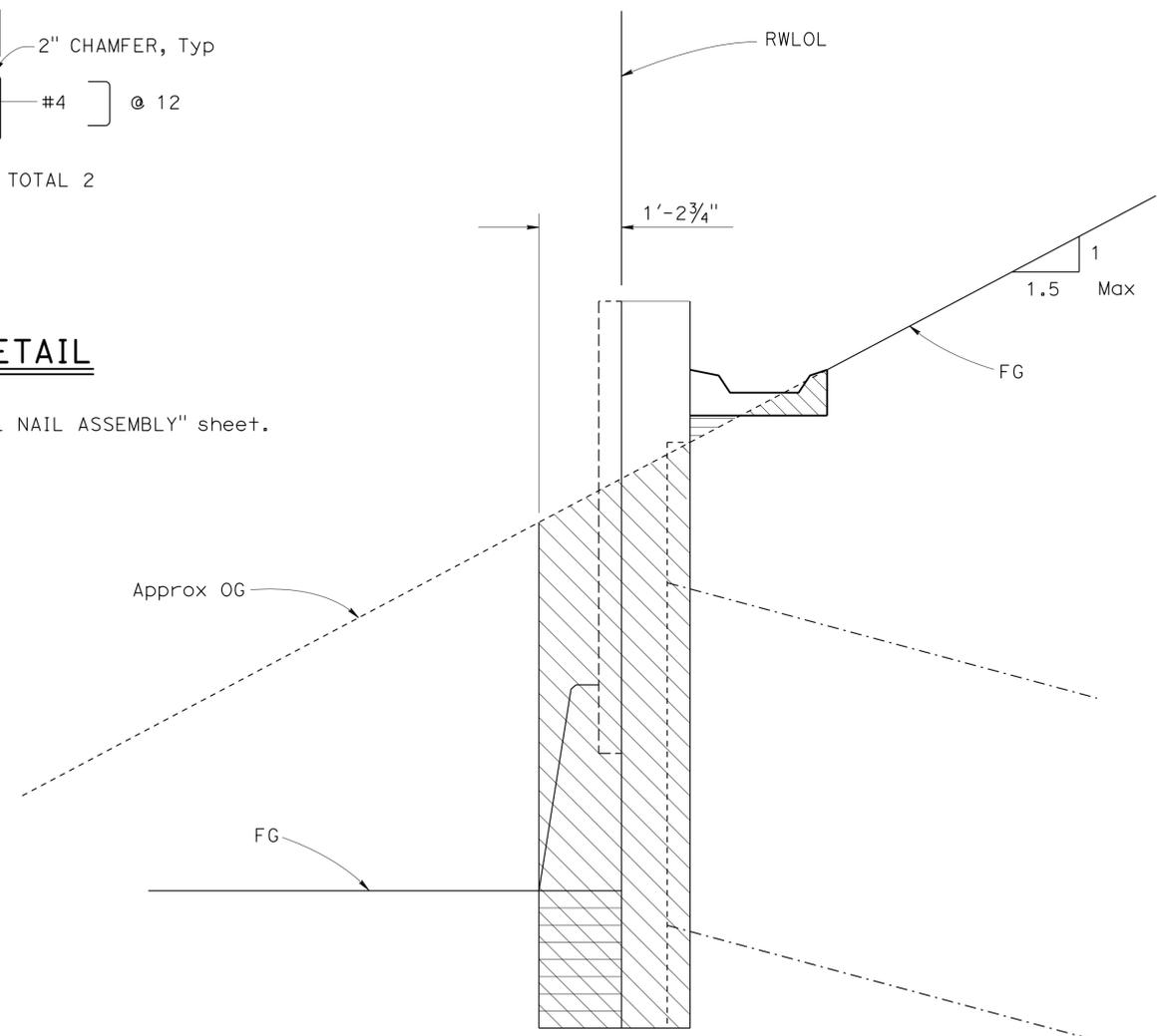
TYPICAL WALL END DETAIL
1" = 1'-0"

NOTE: Details shown but not note, see "SOIL NAIL ASSEMBLY" sheet.



VIEW A-A
NO SCALE

NOTE: Geocomposite drains at 5'-0" Max spacing, centered between columns of soil nails.



LIMITS OF PAYMENT FOR STRUCTURE EXCAVATION AND BACKFILL
NO SCALE

DESIGN	BY A. Vega	CHECKED W. Hsia
DETAILS	BY M. Tran / H. I.	CHECKED W. Hsia
QUANTITIES	BY H. Win	CHECKED V. Altamirano

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 19

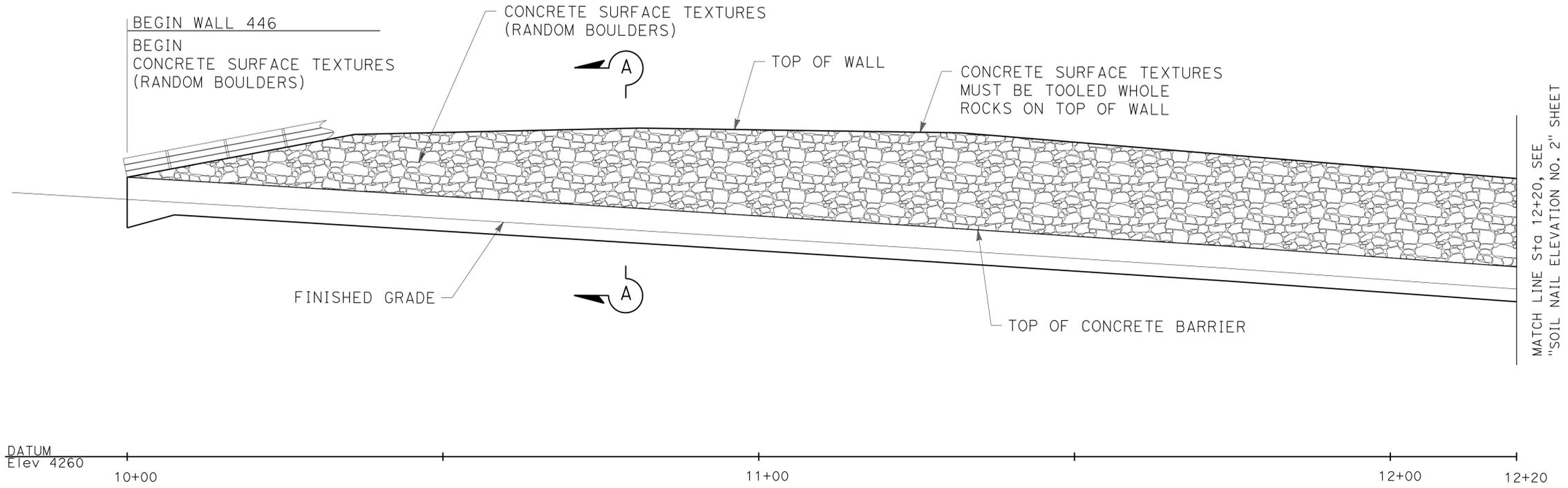
BRIDGE NO.	54E0121
POST MILE	8.5

RETAINING WALL NO. 446
MISCELLANEOUS DETAILS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1165	1168

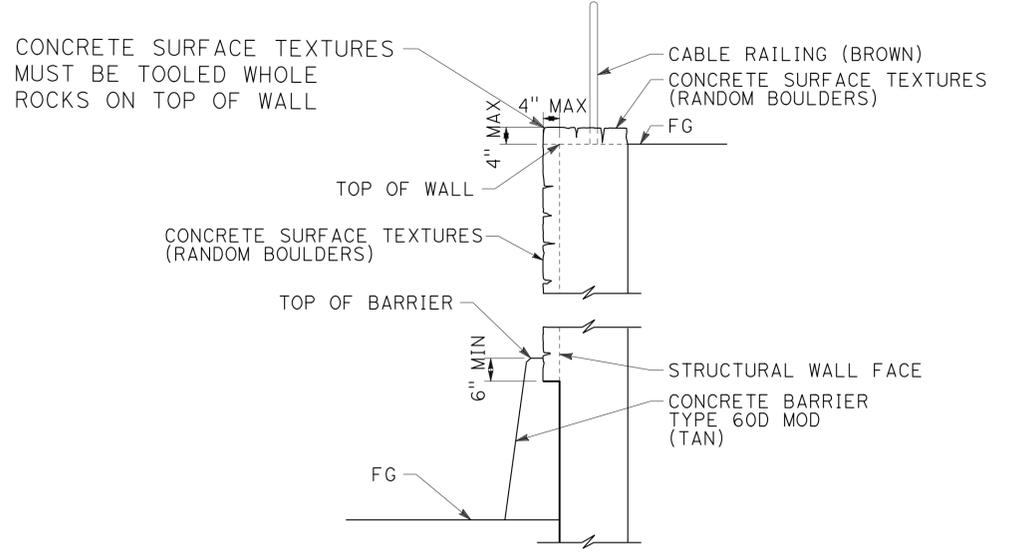
LICENSED LANDSCAPE ARCHITECT
 3-3-14
 PLANS APPROVAL DATE

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MATCH LINE STA 12+20, SEE "SOIL NAIL ELEVATION NO. 2" SHEET

MIRRORED DEVELOPED ELEVATION
 1" = 10'-0"



SECTION A-A
 SCALE: N.T.S.

DESIGN	BY M. Hall	CHECKED R. Desselle
DETAILS	BY M. Hall	CHECKED R. Desselle
QUANTITIES	BY H. Win	CHECKED V. Altamirano

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 19

BRIDGE NO.	54E0121
POST MILE	8.5

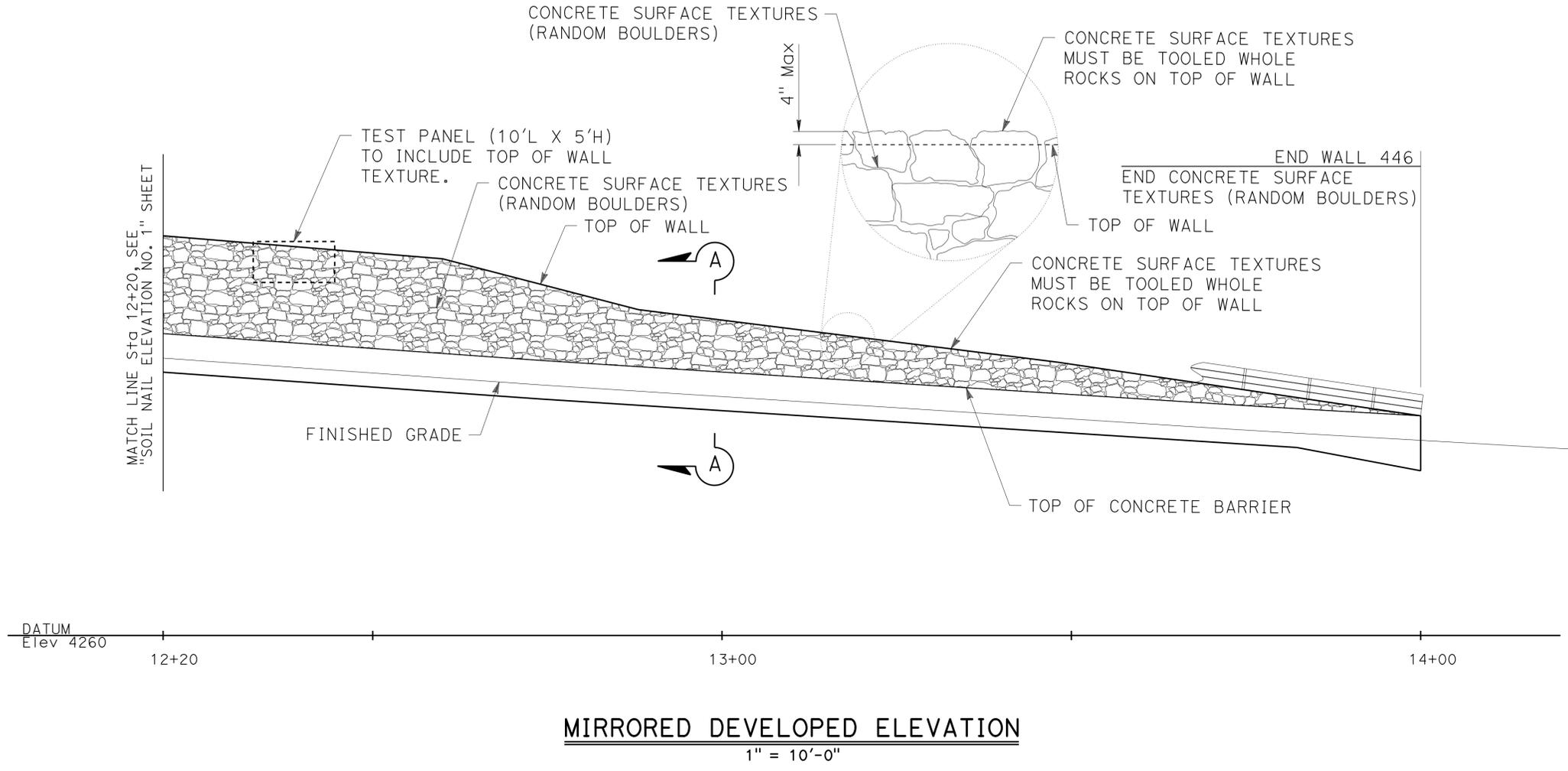
RETAINING WALL NO. 446
ARCHITECTURAL TREATMENT NO. 1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	2,138	6.2/6.4, 2.3/R15.2	1166	1168

Matthew DeWitt
 LICENSED LANDSCAPE ARCHITECT
 3-3-14
 PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT
Matthew DeWitt
 SIGNATURE
 10/31/2013
 RENEWAL DATE
 9/05/2013
 DATE
 STATE OF CALIFORNIA



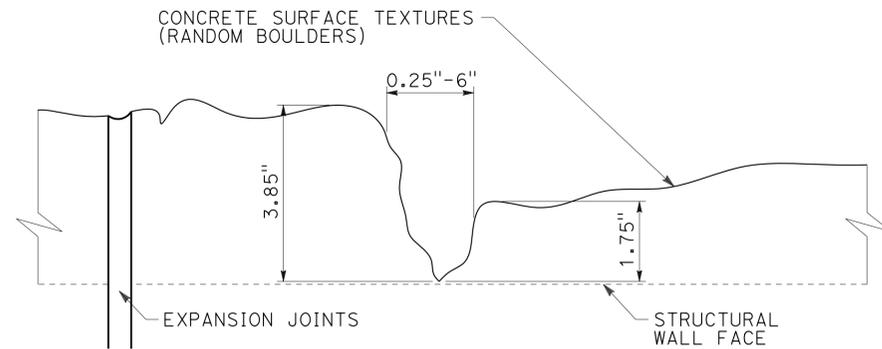
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY M. HALL	CHECKED R. DESSELLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	54E0121	RETAINING WALL NO. 446 ARCHITECTURAL TREATMENT NO. 2	
	DETAILS	BY M. HALL	CHECKED R. DESSELLE			POST MILE	8.5		
	QUANTITIES	BY H. Win	CHECKED V. Altamirano						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3621		PROJECT NUMBER & PHASE: 0800000609 - 1		CONTRACT NO.: 08-3401U1	
DISREGARD PRINTS BEARING EARLIER REVISION DATES						REVISION DATES		SHEET OF	
						03-06-12 4-16-13 5-05-13 08-07-13		9 11	

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TIME PLOTTED => 12:48
 DATE PLOTTED => 07-MAR-2014
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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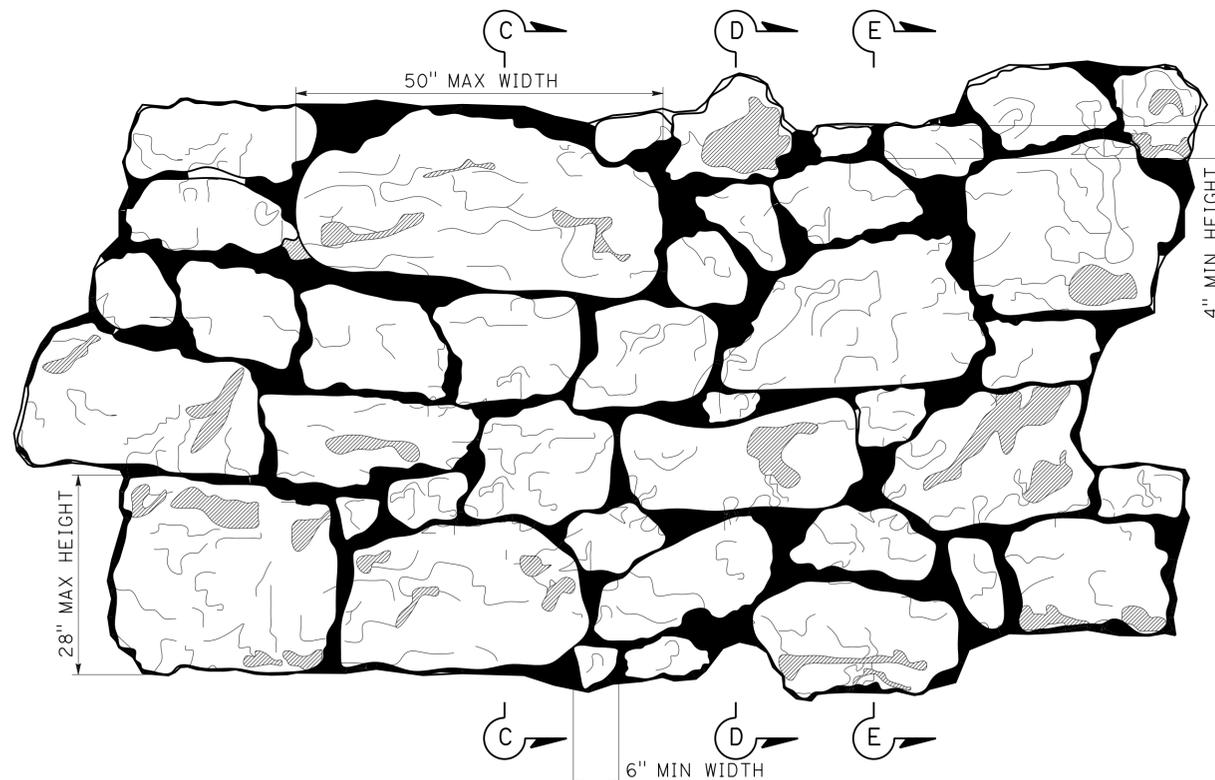
Signature: *Matthew DeBell*
 LICENSED LANDSCAPE ARCHITECT
 3-3-14
 PLANS APPROVAL DATE
 Signature: *Matthew DeBell*
 10/31/2013
 Signature: *Matthew DeBell*
 9/05/2013
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NOTE: CONCRETE SURFACE TEXTURES (RANDOM BOULDERS) WILL BE CONTINUED THROUGH EXPANSION JOINTS

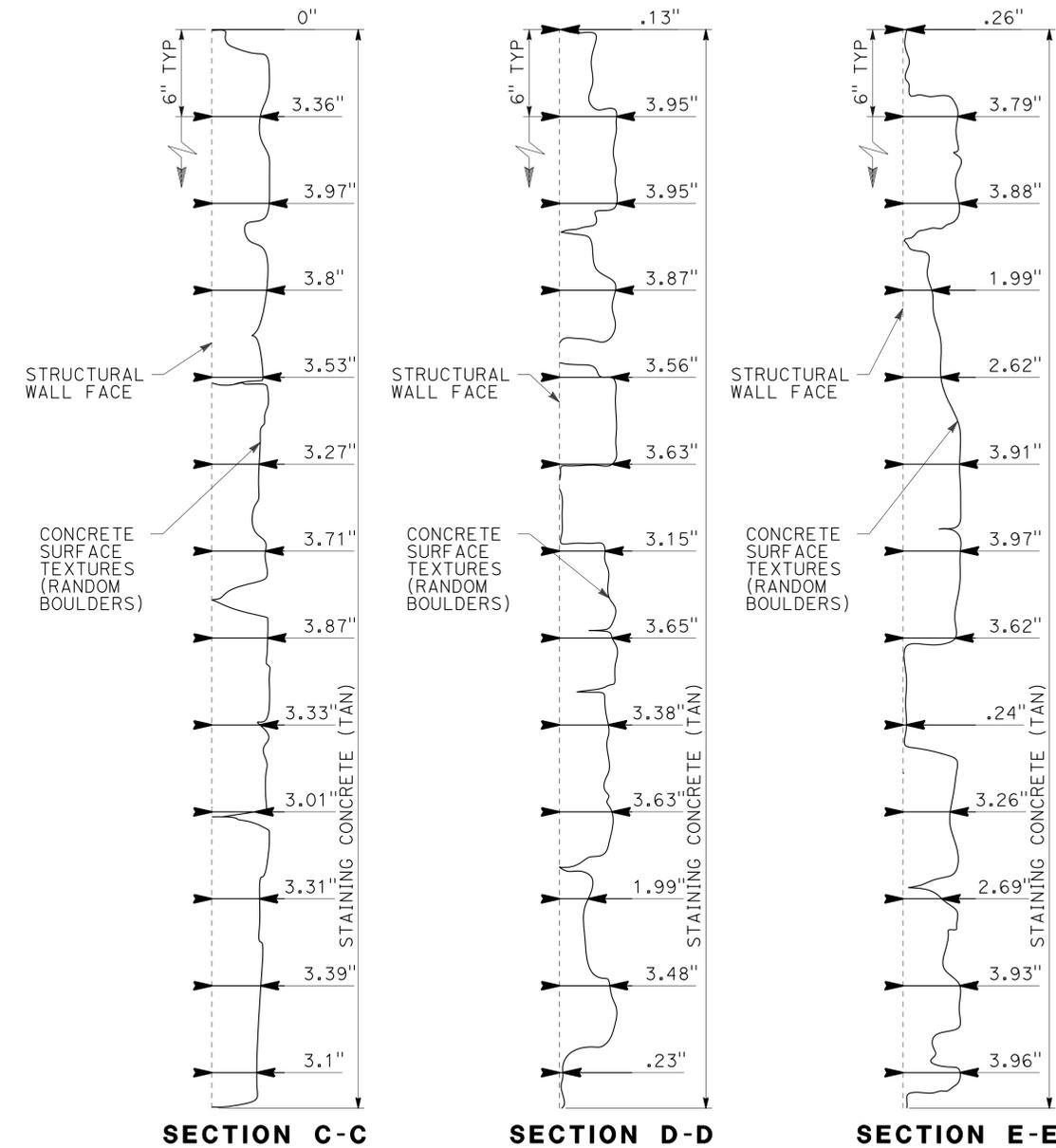
EXPANSION JOINTS DETAIL FOR CONCRETE SURFACE TEXTURES (RANDOM BOULDERS)

NO SCALE



RANDOM BOULDER ELEVATION

SCALE: 1"=1'-0"



NOTE: MAX DEPTH OF 4"

RANDOM BOULDER SECTIONS C,D,E

SCALE: 2"=1'-0"

DESIGN	BY	M. Hall	CHECKED	R. Desselle	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	54E0121	RETAINING WALL NO. 446 ARCHITECTURAL TREATMENT DETAIL	
	DETAILS	BY	M. Hall	CHECKED			R. Desselle	POST MILE		8.5
	QUANTITIES	BY	H. Win	CHECKED			N. Altamirano	UNIT: 3621 PROJECT NUMBER & PHASE: 080000609 - 1		CONTRACT NO.: 08-3401U1
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	REVISION DATES	06-09-13 08-07-13	SHEET 10 OF 11	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Sbd	2,138	6.2/6.4, 2.3/R15.2	1168	1168

Chris Hoadley 11-08-13
 CERTIFIED ENGINEERING GEOLOGIST

3-3-14
 PLANS APPROVAL DATE

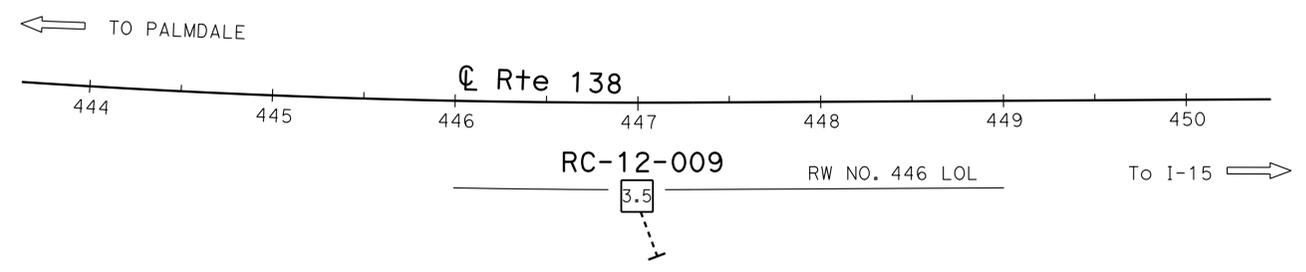
Chris Hoadley
 No. 2309
 Exp. 11-23-13
 CERTIFIED ENGINEERING GEOLOGIST
 STATE OF CALIFORNIA

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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.

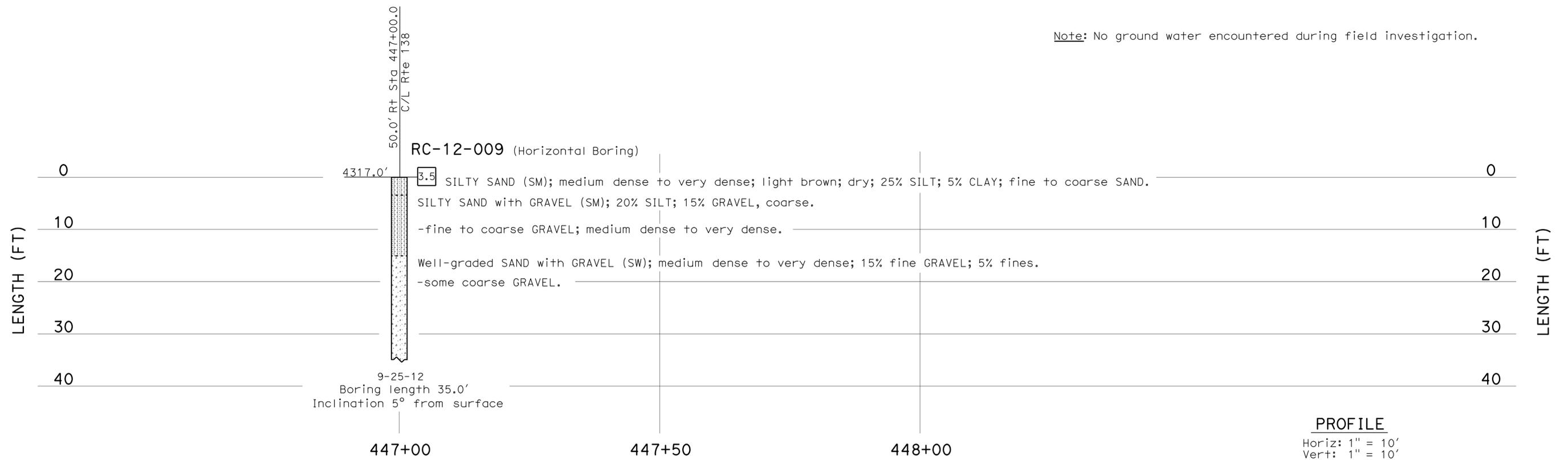
BENCH MARK

FD 6X6" CONC R/W MONUMENT 100' RT
 STATION 674+48.18 EC, PM8.64.
 NAD83 (VERTICAL)
 ZONE 5



PLAN
 1" = 50'

Note: No ground water encountered during field investigation.



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 19		BRIDGE NO. 54E0121 POST MILE 8.5		RETAINING WALL NO. 446 LOG OF TEST BORINGS	
FUNCTIONAL SUPERVISOR NAME: S. Wei	DRAWN BY: W. Tang 10/12 CHECKED BY: M. Wilson	FIELD INVESTIGATION BY: C. Hoadley		UNIT: 3643 PROJECT NUMBER & PHASE: 08000006091		CONTRACT NO.: 08-3401U1		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 10-15-12 11-14-12 12-07-12 11-08-13 SHEET 11 OF 11	
OGS CIVIL LOG OF TEST BORINGS SHEET				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		FILE => 54-rw446-z-1.tb.dgn					

USERNAME => s124496 DATE PLOTTED => 07-MAR-2014 TIME PLOTTED => 12:48