

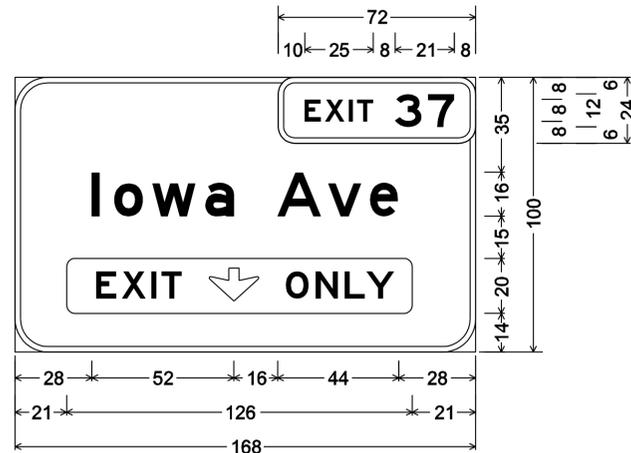
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91, 215	21.5/21.7, 43.2/45.2, 0.0/5.1	634	1743

<i>Tran Hoang</i>	1-2-12
REGISTERED CIVIL ENGINEER	DATE
4-16-12	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

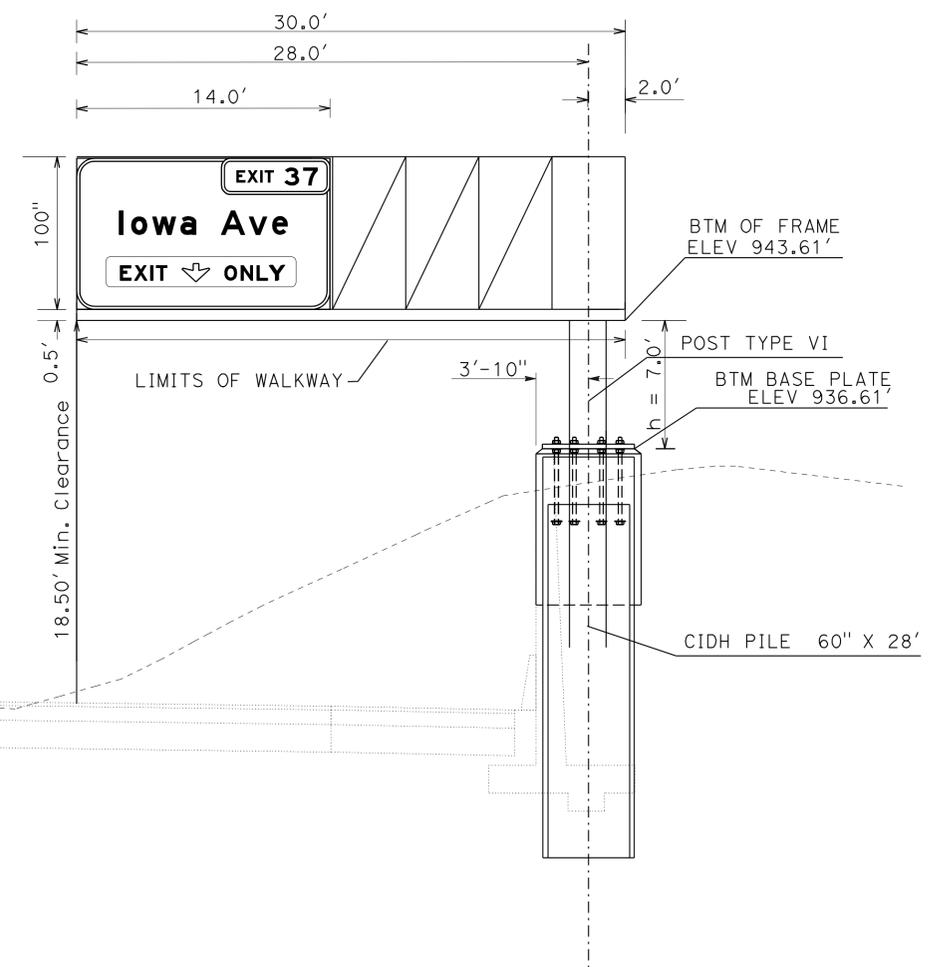
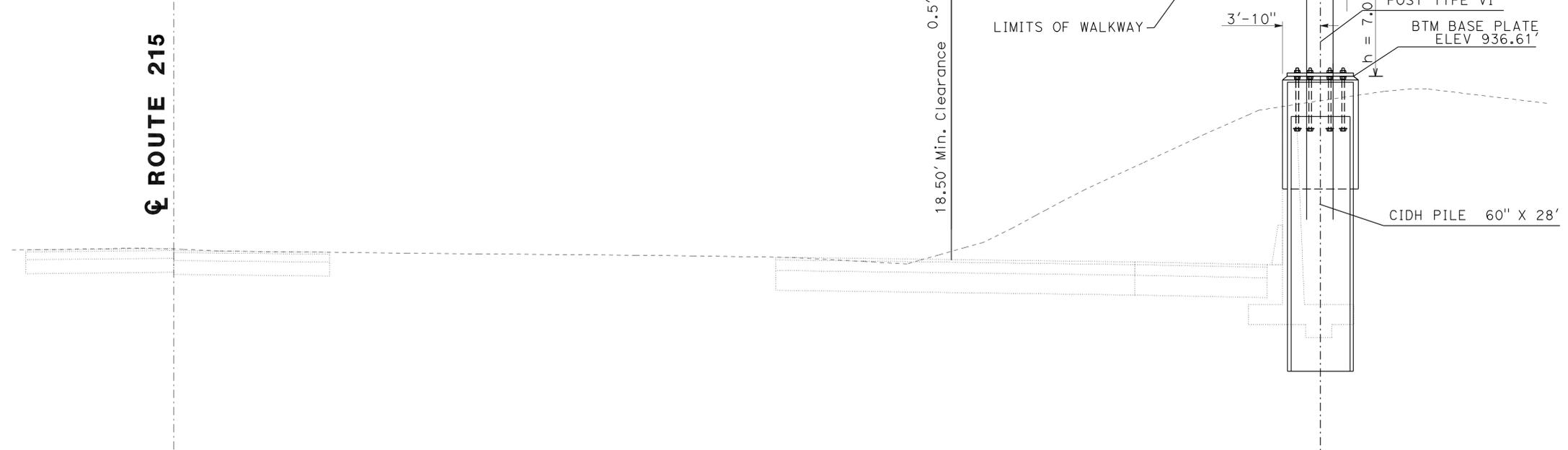
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

SIGN NO. 13-A



12" Radius, 2" Border, White on Green;
 [Iowa Ave] 16" UC, 12" LC, E Mod;
 Down Arrow Custom - 12" 270°; [EXIT ONLY] 10" E;
 W61D<CA> panel = 126" x 20" (Black on Yellow);

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans TRAFFIC DESIGN	WILLIAM E. WASSER	HORMUZD SETHNA	
		TRAN HOANG	
	CHECKED BY	DESIGNED BY	



**SIGN NO. 13-A
 STA. 50+00 FSBT**

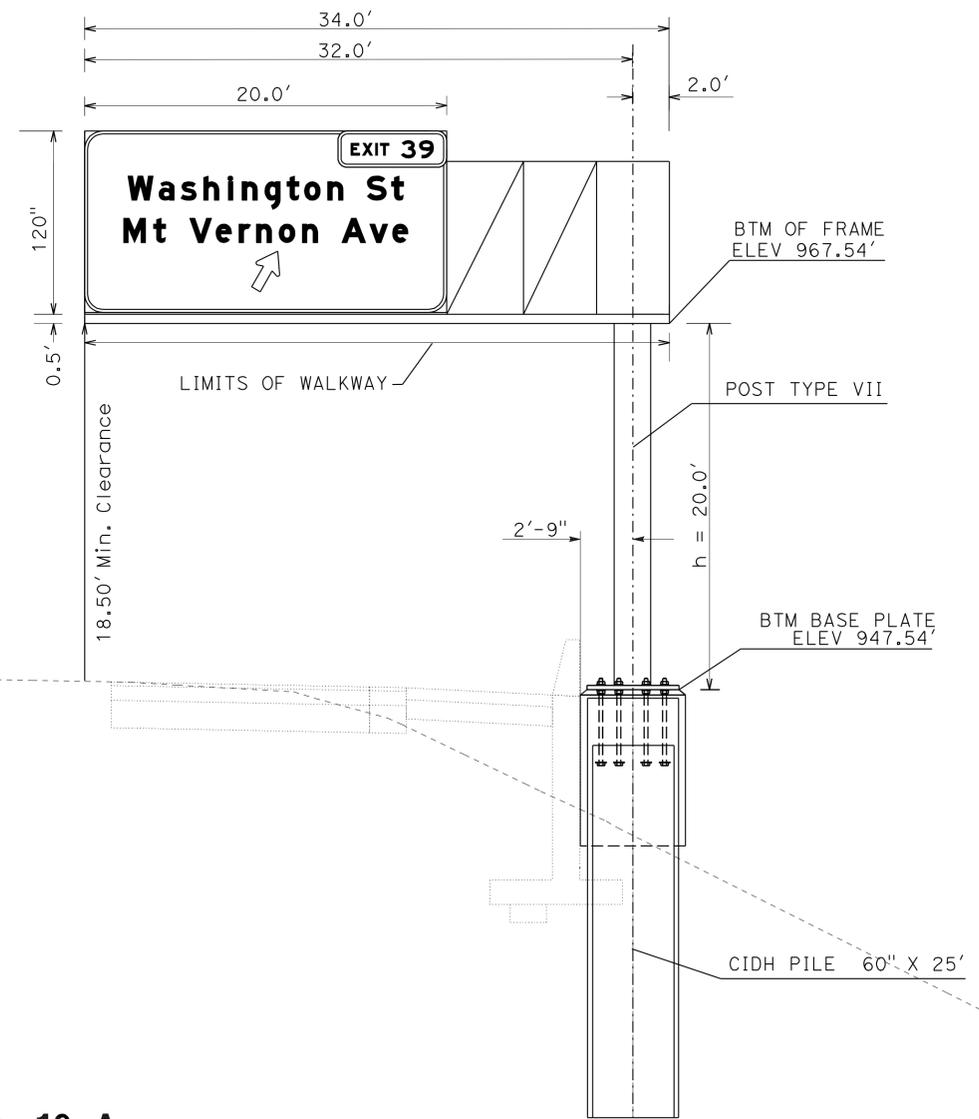
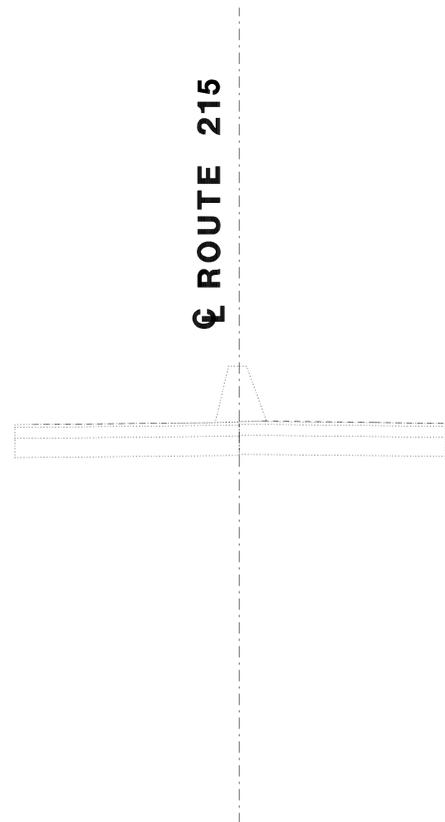
1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

SIGN DETAILS
 NO SCALE **SD-10**

SIGN NO. 19-A



12" Radius, 2" Border, White on Green;
 [Washington St] [Mt Vernon Ave] 16" UC, 12" LC E Mod;
 Standard Arrow Custom 29" X 18" 60°;



**SIGN NO. 19-A
 STA. 134+50 FNBT**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91, 215	21.5/21.7, 43.2/45.2, 0.0/5.1	641	1743

<i>Tran Hoang</i>	1-2-12
REGISTERED CIVIL ENGINEER	DATE
4-16-12	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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

1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

SIGN DETAILS
 NO SCALE **SD-17**

SIGN NO. 22-A



12" Radius, 2" Border, White on Green;
 [Washington St] [Mt Vernon Ave] 16" UC, 12" LC, E Mod;
 Down Arrow Custom - 12" 270°; [EXIT ONLY] 10" E;
 W61D<CA> panel = 126" x 20" (Black on Yellow);

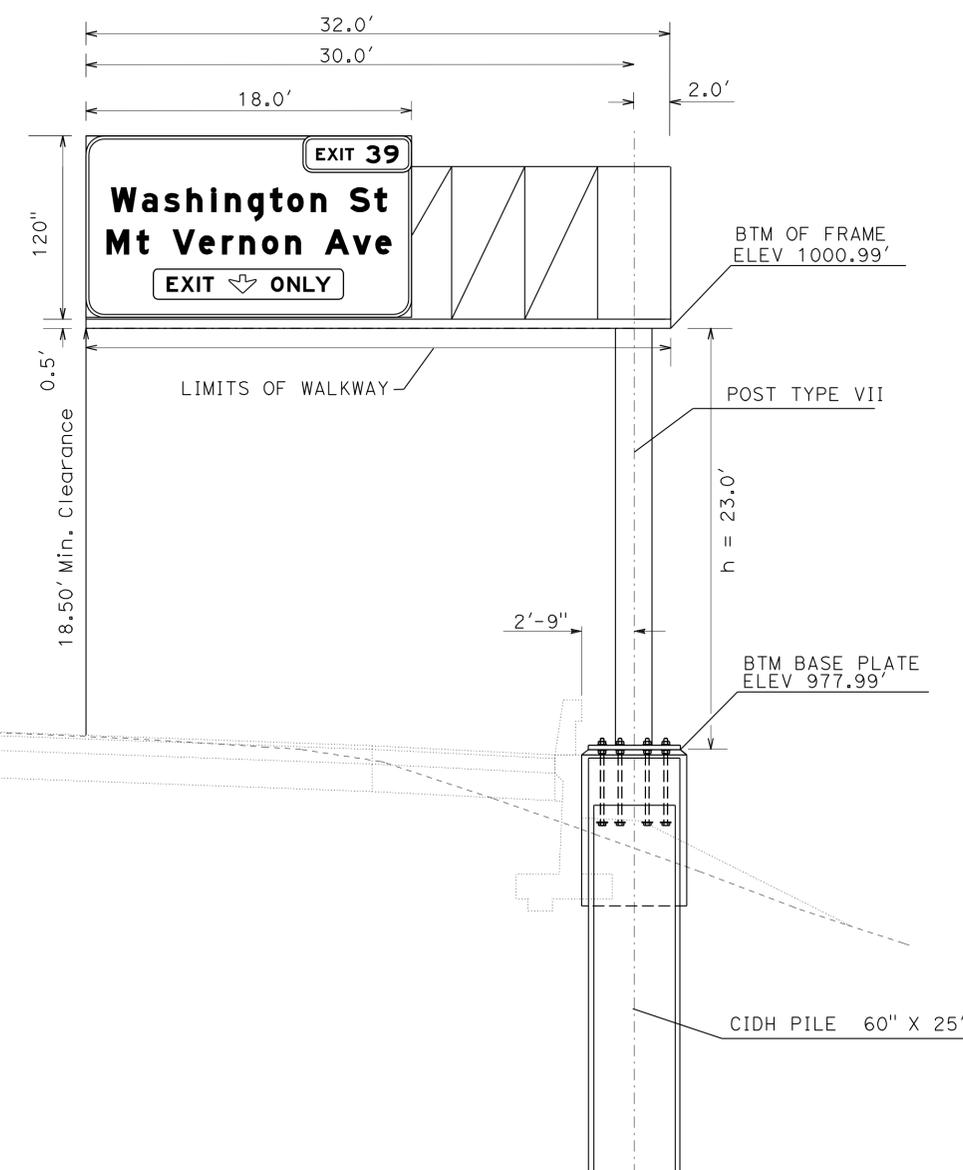
☉ ROUTE 215

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91, 215	21.5/21.7, 43.2/45.2, 0.0/5.1	643	1743

		1-2-12
REGISTERED CIVIL ENGINEER	DATE	
4-16-12		
PLANS APPROVAL DATE		

REGISTERED PROFESSIONAL ENGINEER No. 54996 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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



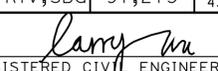
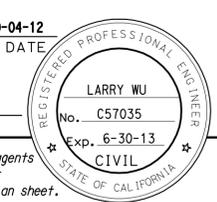
**SIGN NO. 22-A
 STA. 179+50 FSBT**

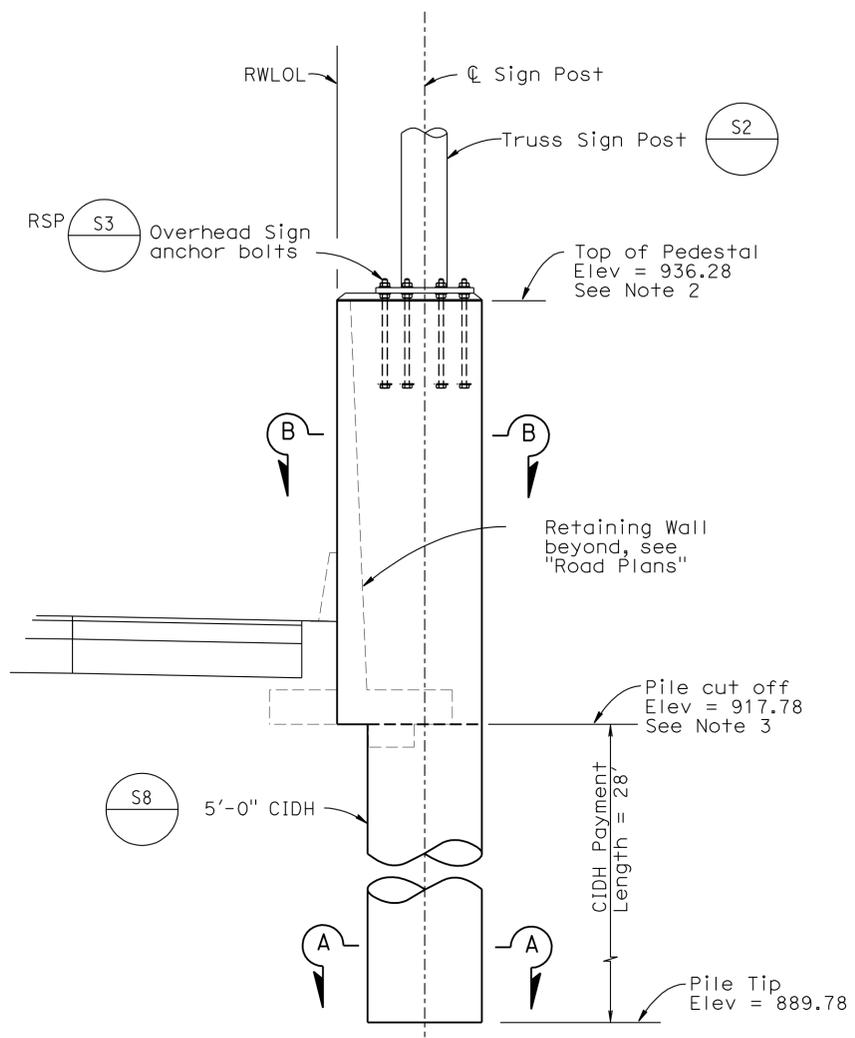
1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

SIGN DETAILS
 NO SCALE **SD-19**

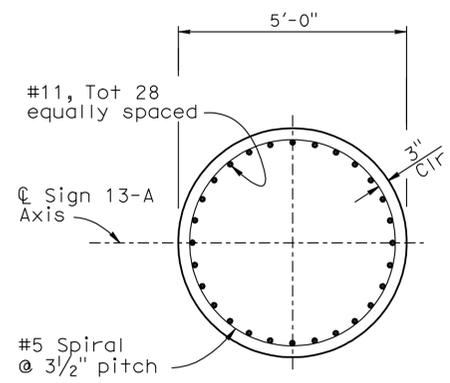
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans TRAFFIC DESIGN	WILLIAM E. WASSER	HORMUZD SETHNA	
		TRAN HOANG	
	CHECKED BY	DESIGNED BY	

LAST REVISION: 01-02-12 DATE PLOTTED => 02-OCT-2012 TIME PLOTTED => 09:09

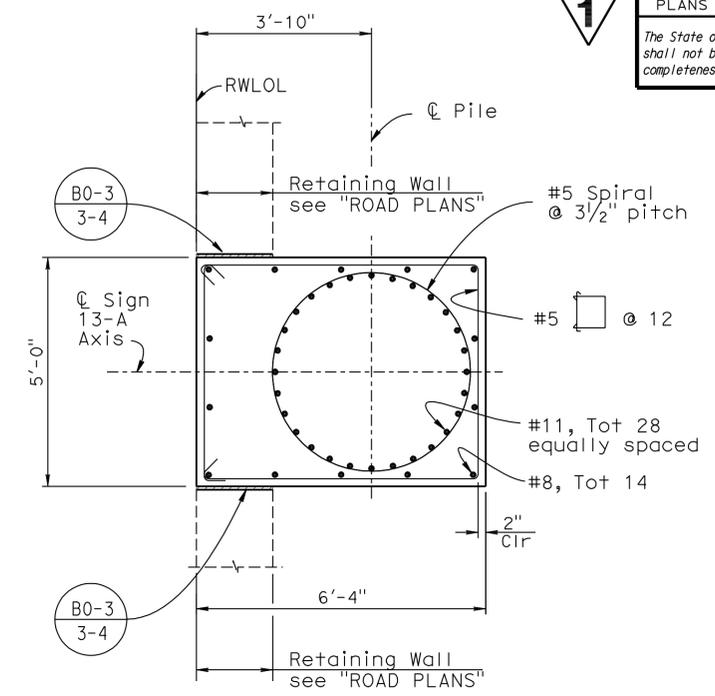
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91, 215	21.5/21.7, 43.2/45.2, 0.0/5.1	634A	1743
 REGISTERED CIVIL ENGINEER DATE 9-04-12					
4-16-12 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



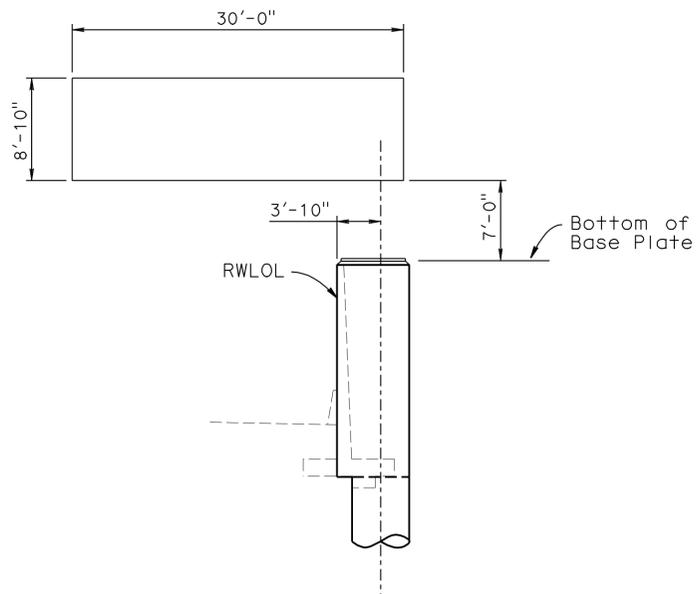
ELEVATION
1/4" = 1'-0"



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



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



SIGN LAYOUT
STA 50+00

NOTES:

1. For location of sign see "Road Plans"
2. Top of pedestal elevation will be same as top of Retaining Wall elevation at such location
3. Top of CIDH elevation will be same as bottom of footing elevation at such location
4. Minimum f'c = 3,600 psi at 28 days
5. Minimum concrete strength shall be achieved prior to installing truss sign



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

1 ADDED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

SD-10A

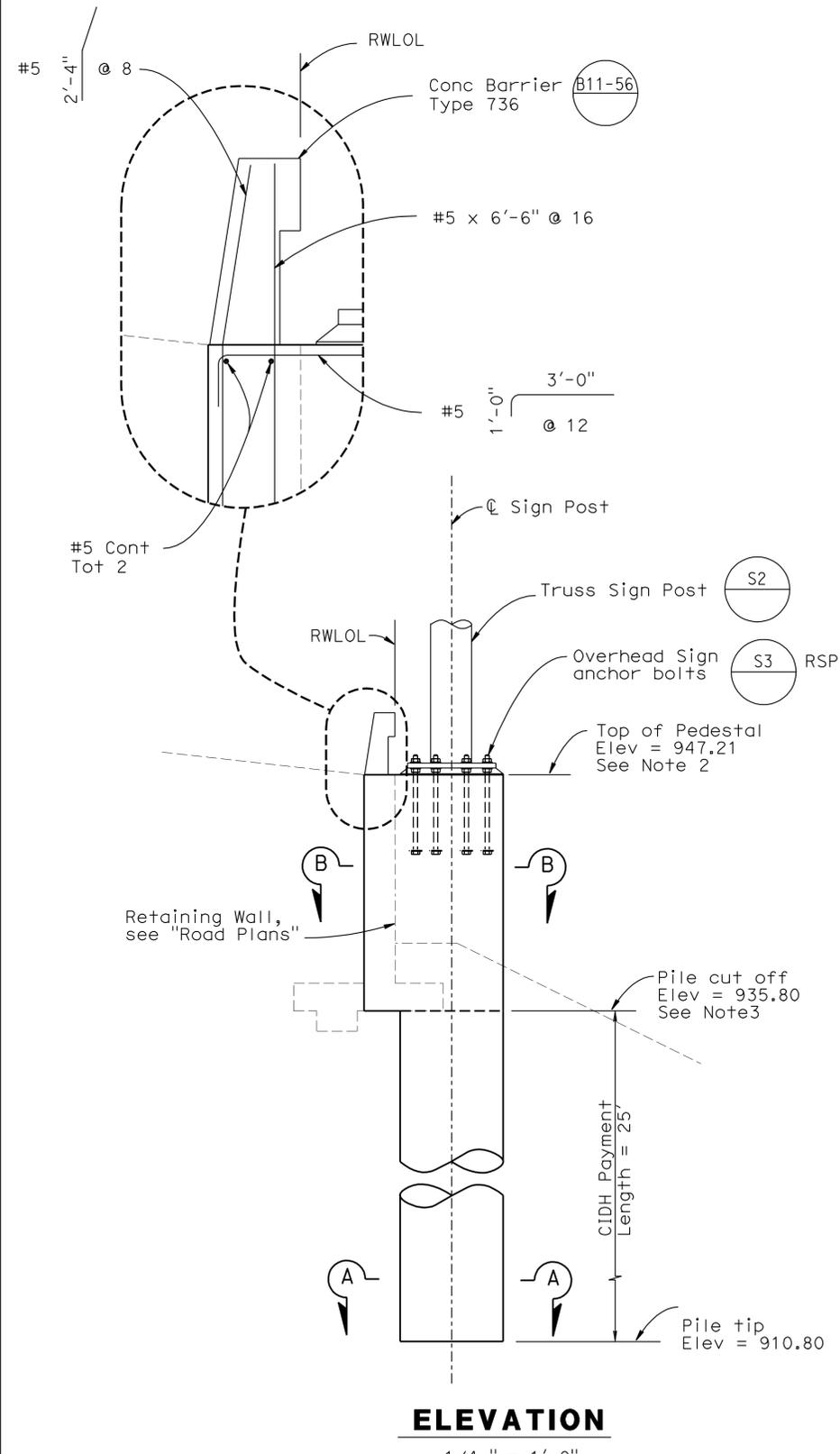
DESIGN BY H. Vu CHECKED R. Stiltz	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	OVERHEAD SIGN 13-A - SINGLE POST TRUSS FOUNDATION DETAILS				
			X					
			POST MILE					
DETAILS BY R. Kirkland/D. Wooten CHECKED R. Stiltz			X					
QUANTITIES BY H. Vu CHECKED R. Stiltz								
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3589 PROJECT NUMBER & PHASE: 08000005061	CONTRACT NO.: 08-0m9401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 3-29-12	SHEET OF X X

USERNAME => s121614 DATE PLOTTED => 01-OCT-2012 TIME PLOTTED => 08:32

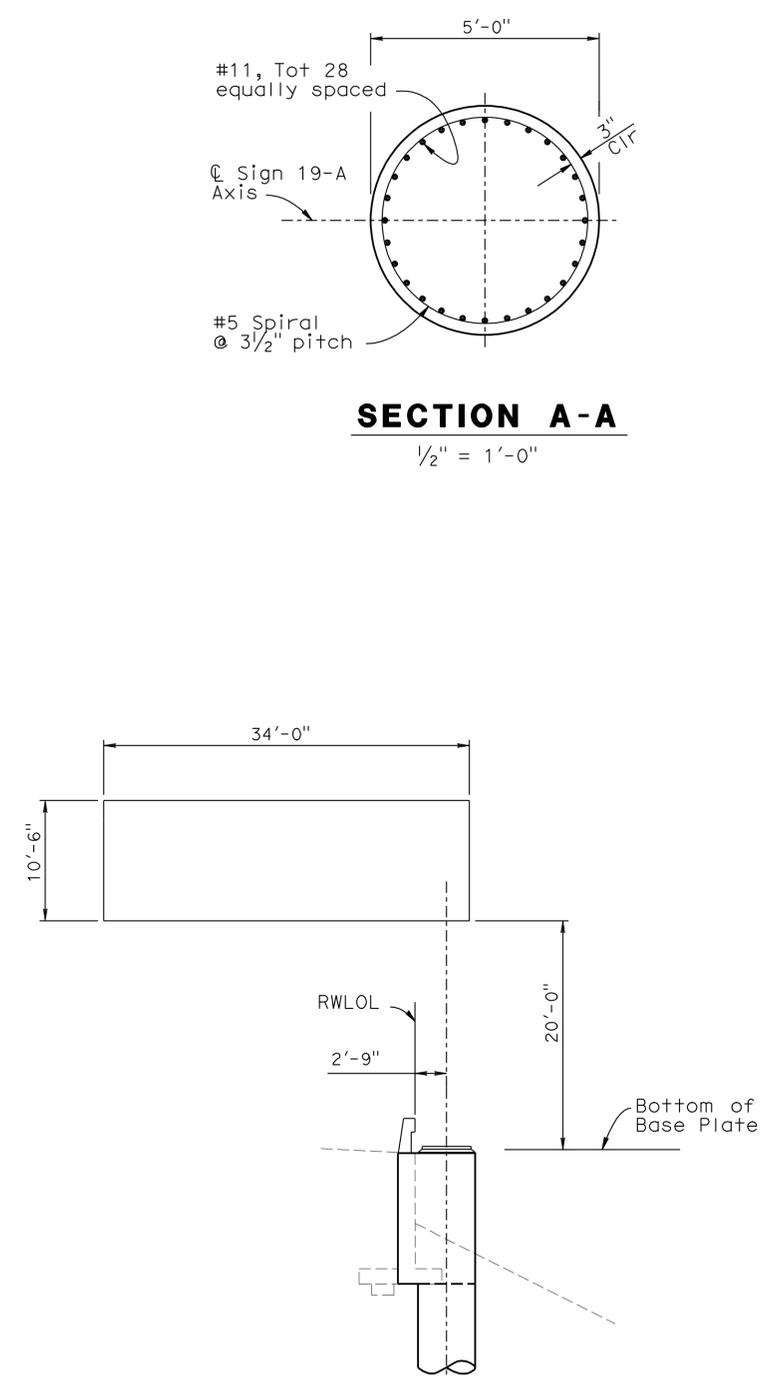
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91,215	21.5/21.7, 43.2/45.2, 0.0/5.1	641A	1743

REGISTERED CIVIL ENGINEER **Larry Wu** DATE **9-04-12**
 PLANS APPROVAL DATE **4-16-12**
 No. **C57035** Exp. **6-30-13**
 LARRY WU
 No. **C57035**
 Exp. **6-30-13**
 CIVIL
 STATE OF CALIFORNIA

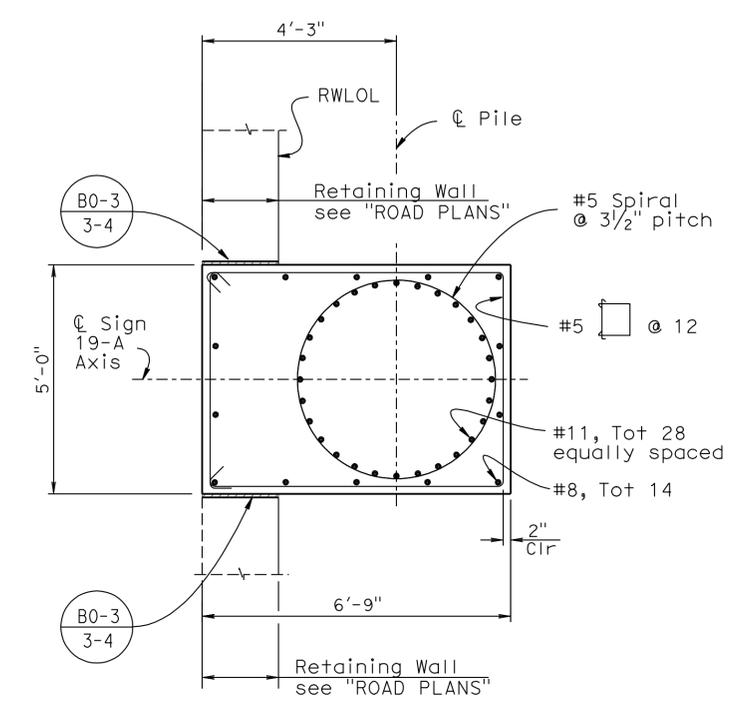
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



ELEVATION
1/4" = 1'-0"



SIGN LAYOUT
STA 134+50



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

- NOTES:
1. For location of sign see "Road Plans"
 2. Top of pedestal elevation will be same as top of Retaining Wall elevation at such location
 3. Top of CIDH elevation will be same as bottom of footing elevation at such location
 4. Minimum f'c = 3,600 psi at 28 days
 5. Minimum concrete strength shall be achieved prior to installing truss sign

(Circle with arrow) — Standard Plan sheet No.
 (Circle with arrow) — Detail No.

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

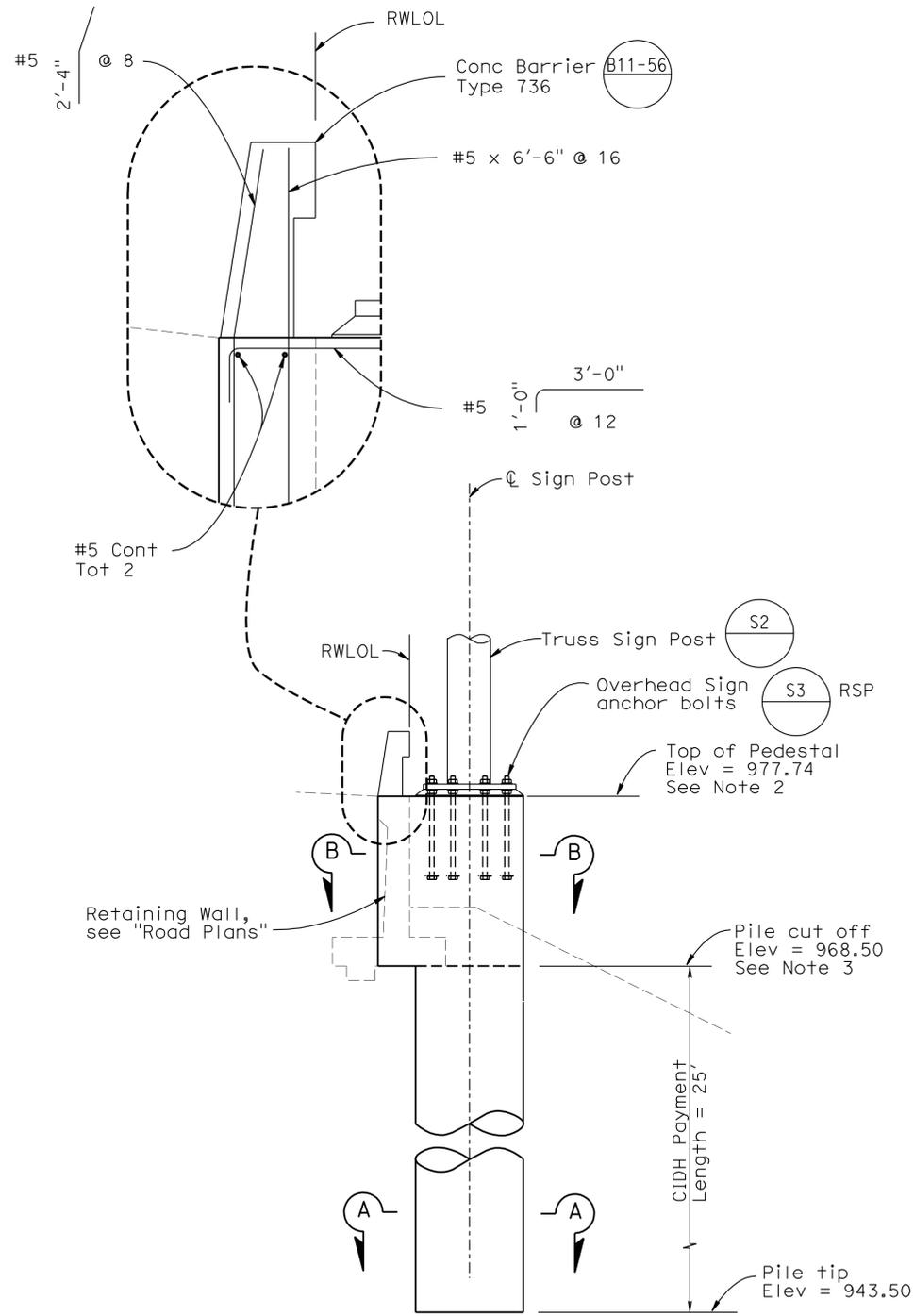
1 ADDED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

SD-17A

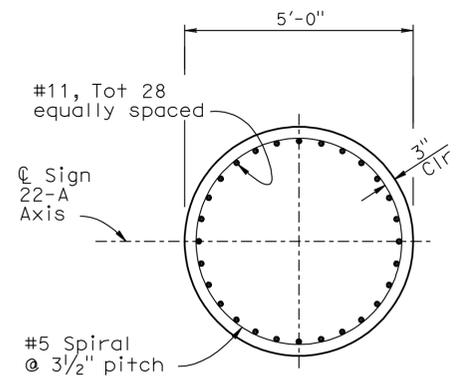
DESIGN	BY	H. Vu	CHECKED	R. Stiltz	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	X	OVERHEAD SIGN 19-A - SINGLE POST TRUSS FOUNDATION DETAILS	
	DETAILS	BY	R. Kirkland/D.Wooten	CHECKED			R. Stiltz	POST MILE		X
	QUANTITIES	BY	H. Vu	CHECKED			R. Stiltz			

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3589 PROJECT NUMBER & PHASE: 08000005061 CONTRACT NO.: 08-0m9401 DISREGARD PRINTS BEARING EARLIER REVISION DATES 3-29-12 SHEET OF X X

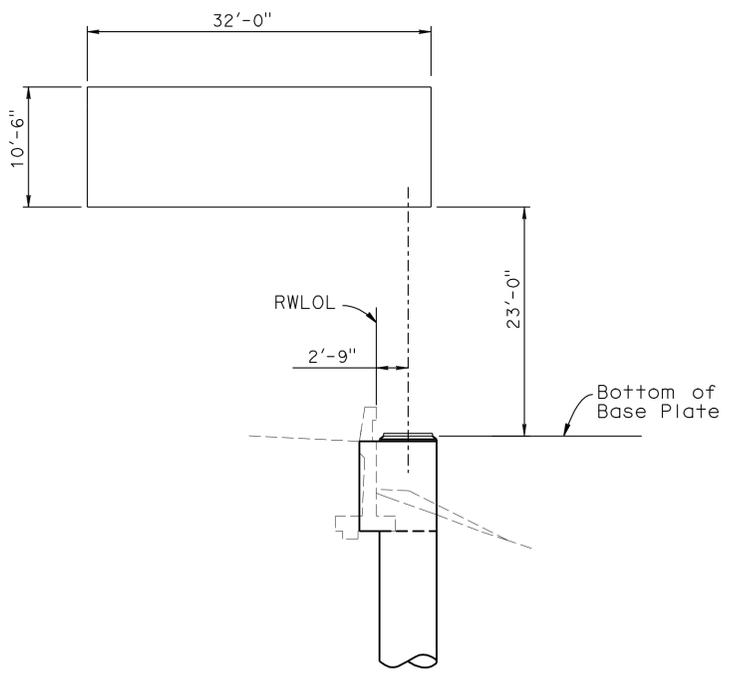
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91,215	21.5/21.7, 43.2/45.2, 0.0/5.1	643A	1743
			REGISTERED CIVIL ENGINEER	DATE	
			LARRY WU	9-04-12	
			PLANS APPROVAL DATE		
			4-16-12		
			The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.		



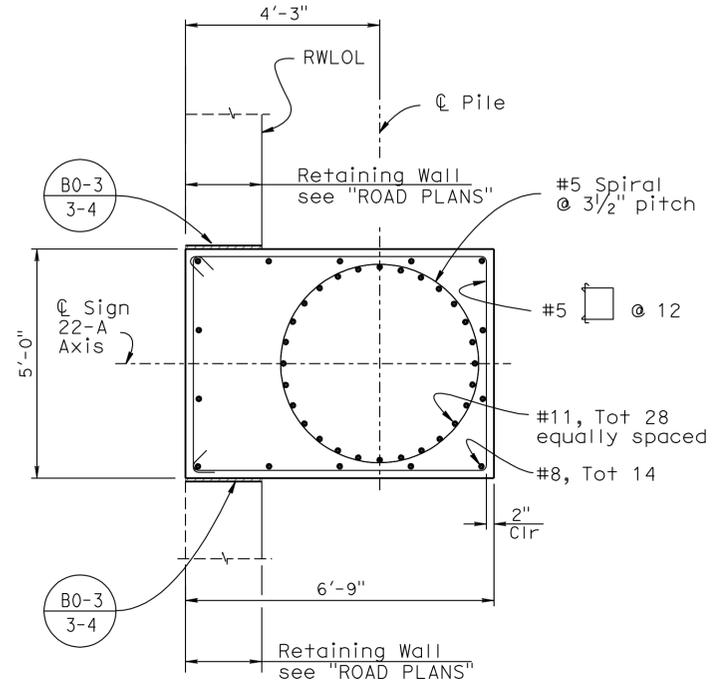
ELEVATION
1/4" = 1'-0"



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



SIGN LAYOUT
STA 179+50



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

- NOTES:
1. For location of sign see "Road Plans"
 2. Top of pedestal elevation will be same as top of Retaining Wall elevation at such location
 3. Top of CIDH elevation will be same as bottom of footing elevation at such location
 4. Minimum f'c = 3,600 psi at 28 days
 5. Minimum concrete strength shall be achieved prior to installing truss sign



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

1 ADDED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

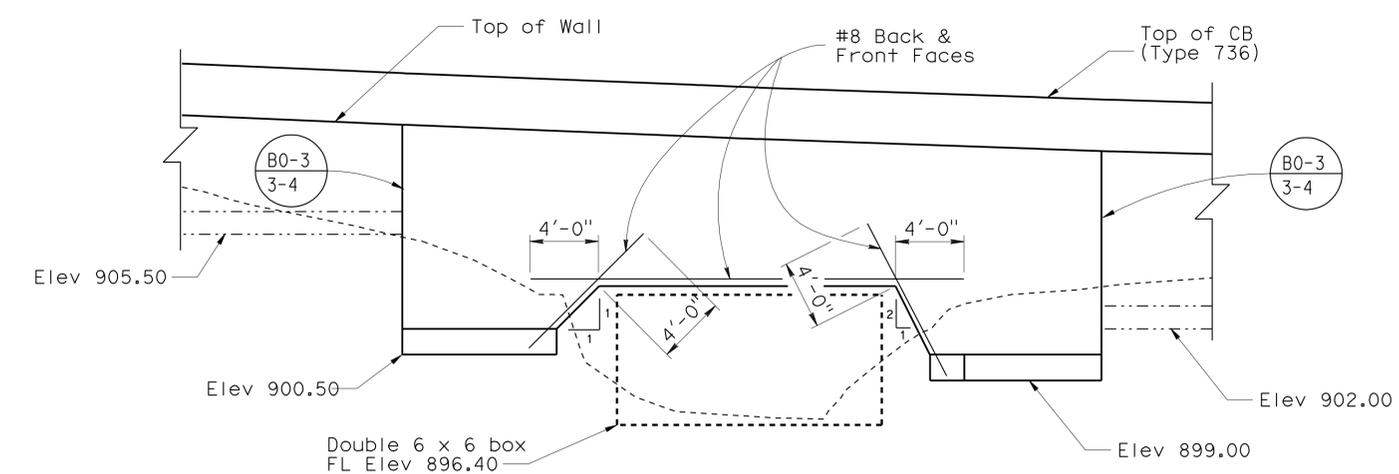
SD-19A

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY H. Vu	CHECKED R. Stiltz	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	X	OVERHEAD SIGN 22-A - SINGLE POST TRUSS FOUNDATION DETAILS			
	DETAILS	BY R. Kirkland/D. Wooten	CHECKED R. Stiltz			POST MILE	X				
	QUANTITIES	BY H. Vu	CHECKED R. Stiltz								
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					UNIT: 3589 PROJECT NUMBER & PHASE: 08000005061	CONTRACT NO.: 08-0m9401		DISREGARD PRINTS BEARING EARLIER REVISION DATES			
					0	1	2	3	REVISION DATES	SHEET	OF
									3-29-12	X	X

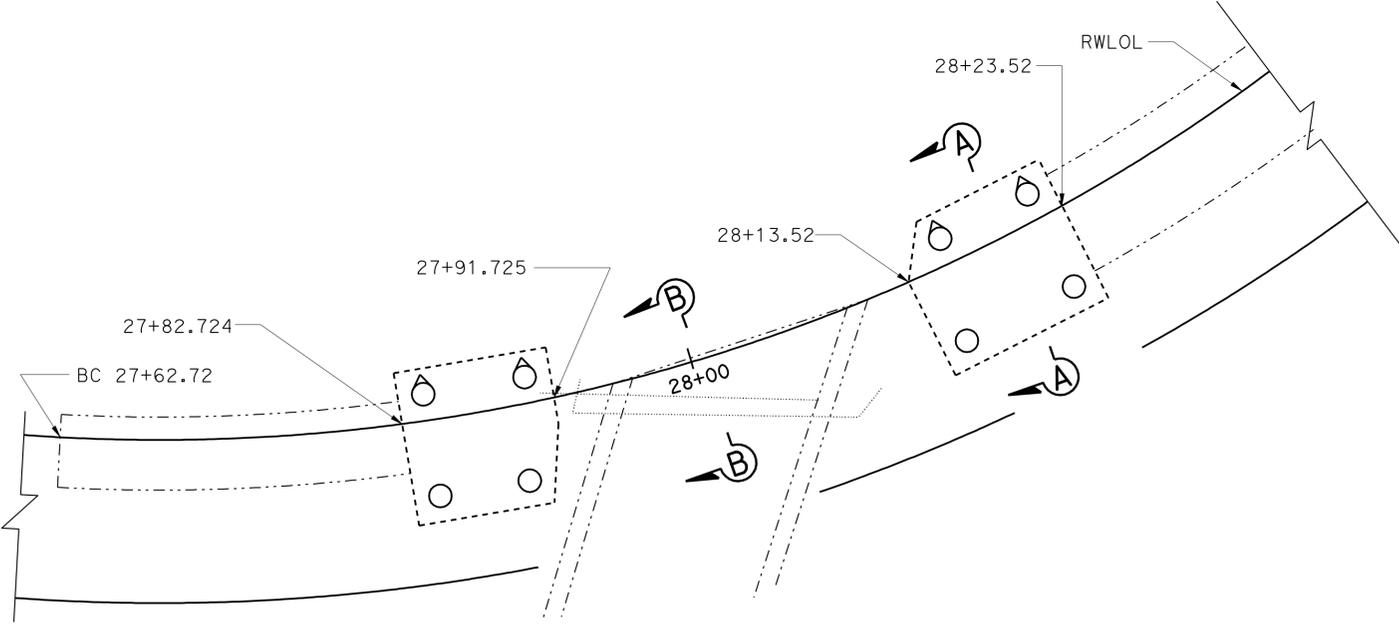
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, Sbd	91, 215	21.5/21.7, 43.2/45.2, 0.0/5.1	719	1743

LARRY WU
 REGISTERED CIVIL ENGINEER
 DATE: 1-2-12
 PLANS APPROVAL DATE: 4-16-12
 No. C57035
 Exp. 6-30-13
 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.



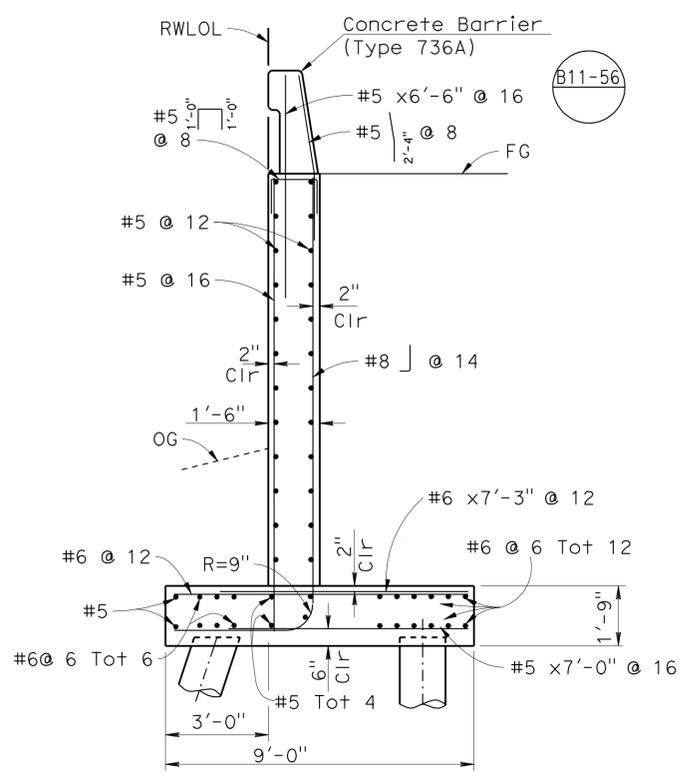
MIRROR DEVELOPED ELEVATION
 $\frac{3}{16}'' = 1' - 0''$



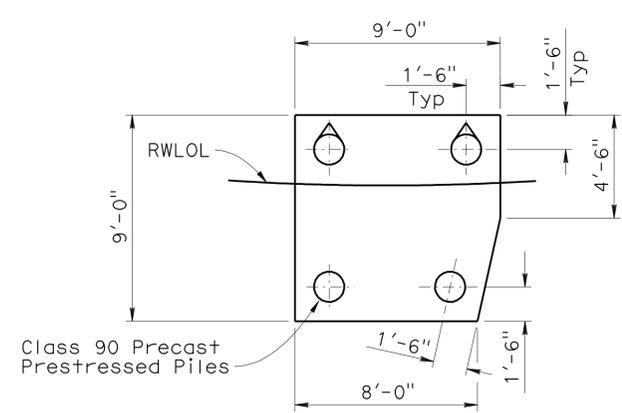
PLAN
 $\frac{3}{16}'' = 1' - 0''$

PILE DATA TABLE

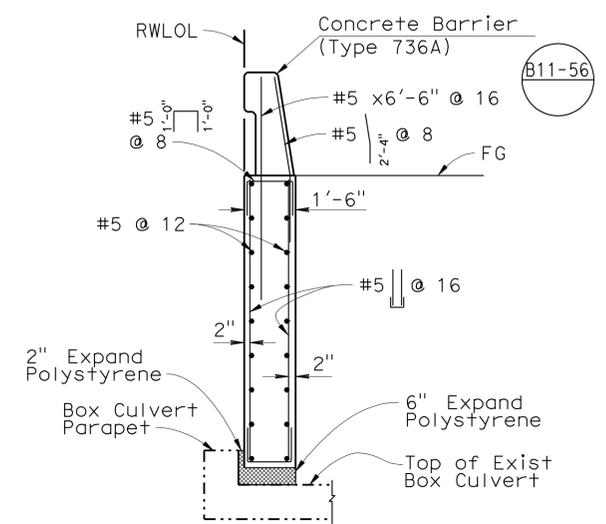
Locations	Pile Type	Required Resistance (kips)		Design Tip Elevation (ft)	Specified Tip Elevation (ft)	Nominal Driving Resistance (kips)
		Compression	Tension			
Ret Wall 29	Class 90 A1+ "X"	90	0	875.0	875.0	90



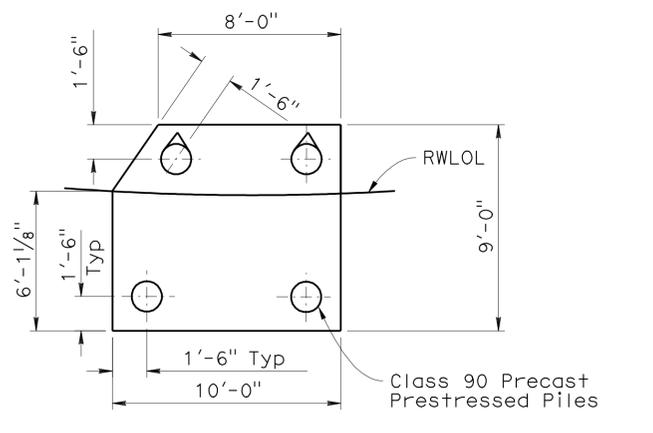
SECTION A-A
 $\frac{3}{8}'' = 1' - 0''$



FOOTING AND PILE LAYOUT
 $\frac{1}{4}'' = 1' - 0''$



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



LEGEND:
 ⊕ Indicates 1:3 Battered Piles

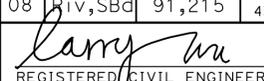
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

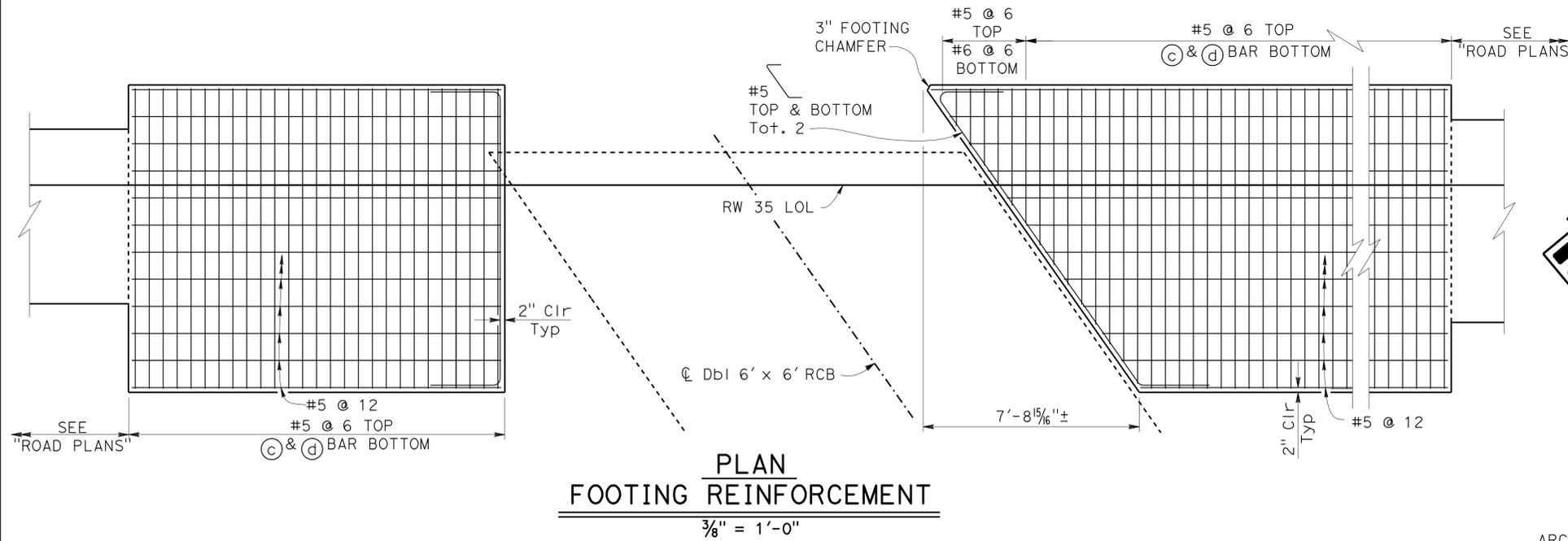
1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

R6-2

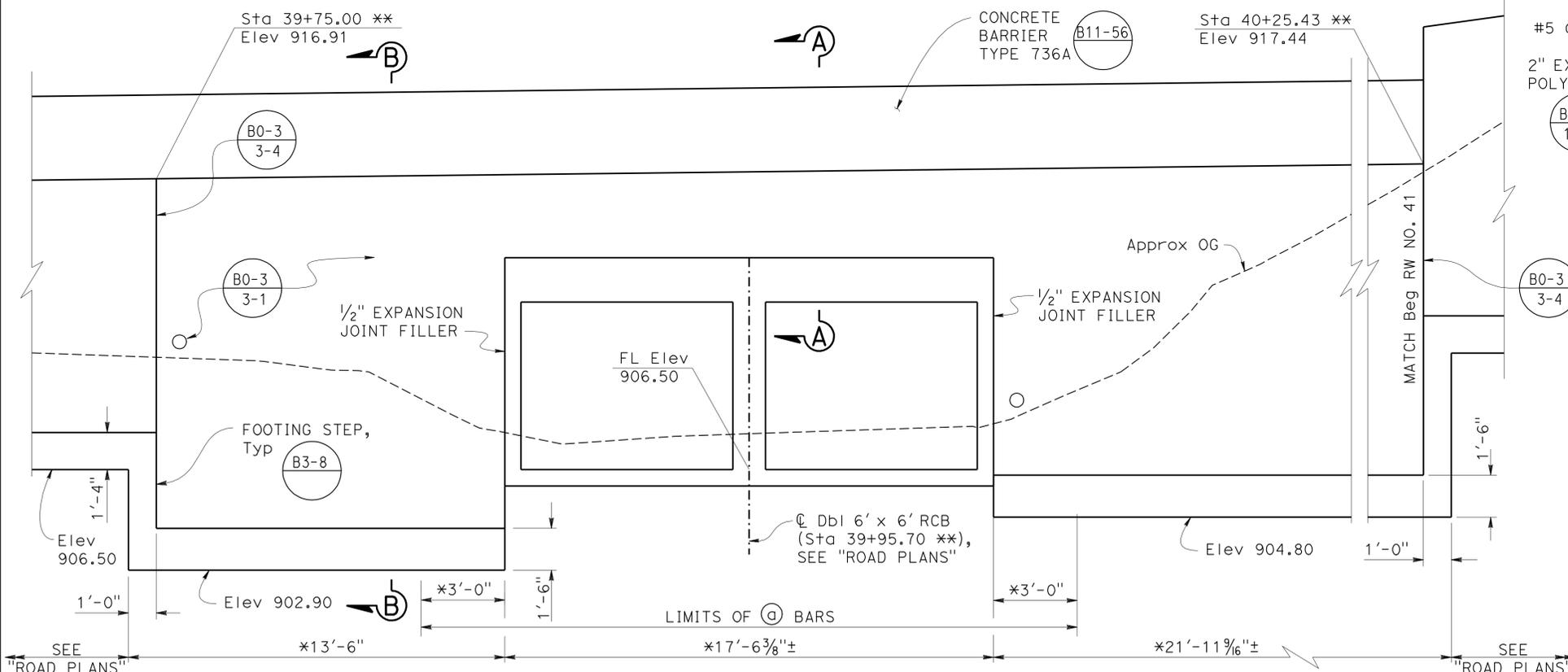
DESIGN ENGINEER DANIEL T. ADAMS	DESIGN	BY H. Vu	CHECKED R. Stiltz	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. RW 29	RETAINING WALL NO. 29 RETAINING WALL DETAILS
	DETAILS	BY Y. Tang	CHECKED R. Stiltz	LAYOUT	BY H. Vu			CHECKED R. Stiltz	
	QUANTITIES	BY X	CHECKED X	SPECIFICATIONS	BY J. Corrado	CHECKED J. Corrado			

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
 UNIT: 3589
 PROJECT NUMBER & PHASE: 08000005061
 CONTRACT NO.: 08-0M9401
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 11-10-11
 SHEET OF: X X

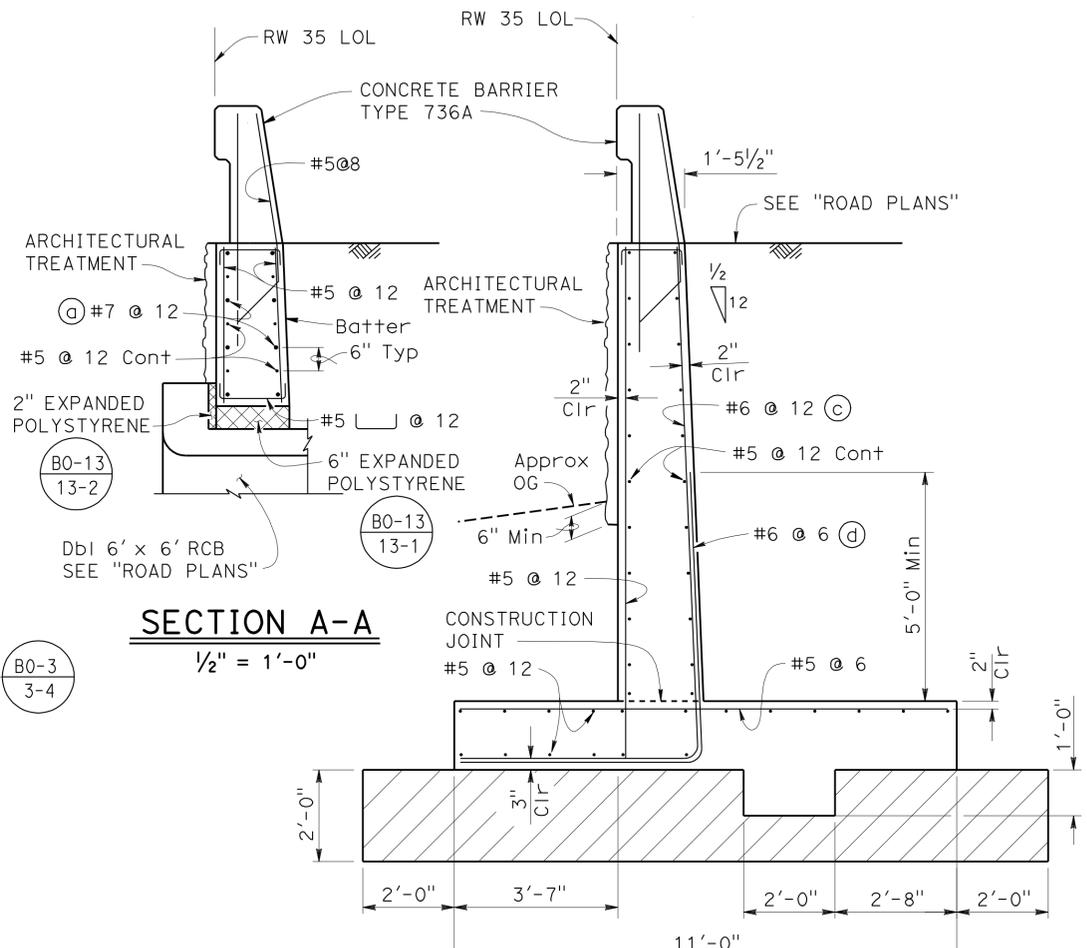
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91, 215	21.5/21.7, 43.2/45.2, 0.0/5.1	726	1743
 REGISTERED CIVIL ENGINEER			4-06-12	DATE	
4-16-12			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



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



MIRRORED ELEVATION RETAINING WALL NO. 35
 $\frac{3}{8}'' = 1'-0''$



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

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

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

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

1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

NOTE:
 Architectural Treatment not shown.

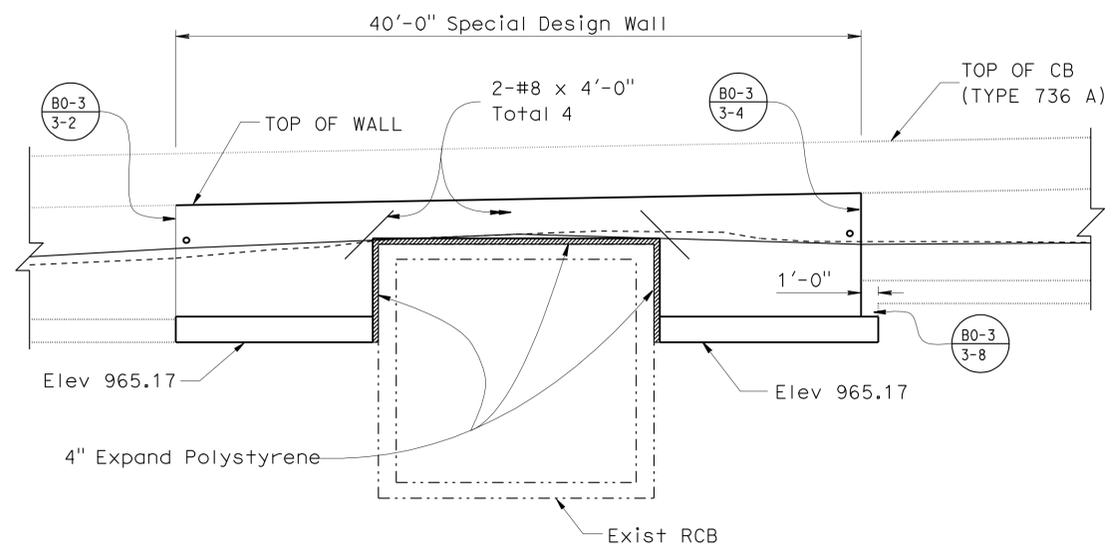
- NOTES:
- For Architectural Treatment and Concrete Barrier Type 736A, see "ROAD PLANS".
 - Pervious Backfill and Weep Hole not shown in "SECTION A-A" and "SECTION B-B". See "ROAD PLANS".

- LEGEND:
-  Indicates typical over-excavation. See "ROAD PLANS"
 - * Indicates dimension along RW 35 LOL
 - ** Indicates station along RW 35 LOL

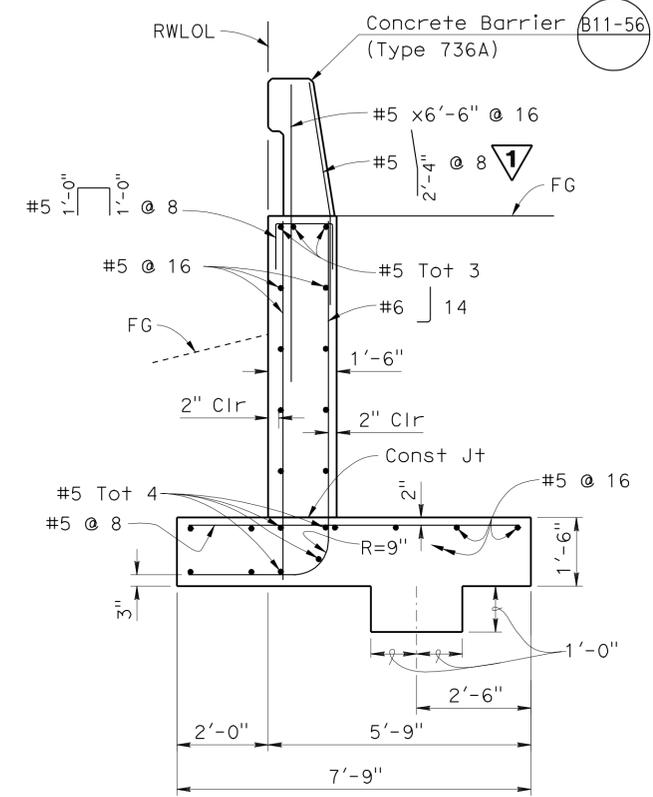
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	DESIGN	BY Jun Ki Jung	CHECKED Huan Vu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	RW 35	RETAINING WALL NO. 35 R7-3 RETAINING WALL TYPE 1 MOD DETAILS
	DETAILS	BY Y. Feng / G. Dickerson	CHECKED Huan Vu		DESIGN BRANCH	10	
	QUANTITIES	BY Jun Ki Jung	CHECKED Huan Vu		POST MILE	X	
UNIT: 3589 PROJECT NUMBER & PHASE: 08000005061				CONTRACT NO.: 08-0M9401		DISREGARD PRINTS BEARING EARLIER REVISION DATES	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91,215	21.5/21.7 43.2/45.2, 0.0/5.1	802	1743

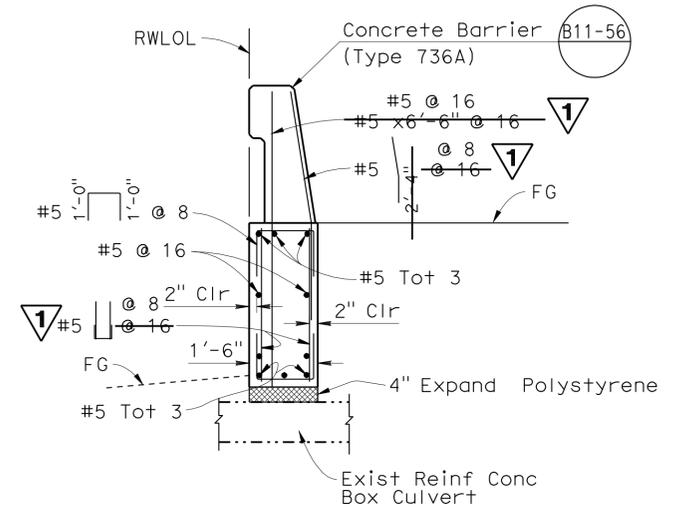
1-2-12
 REGISTERED CIVIL ENGINEER DATE
 LARRY WU
 No. C57035
 Exp. 6-30-13
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



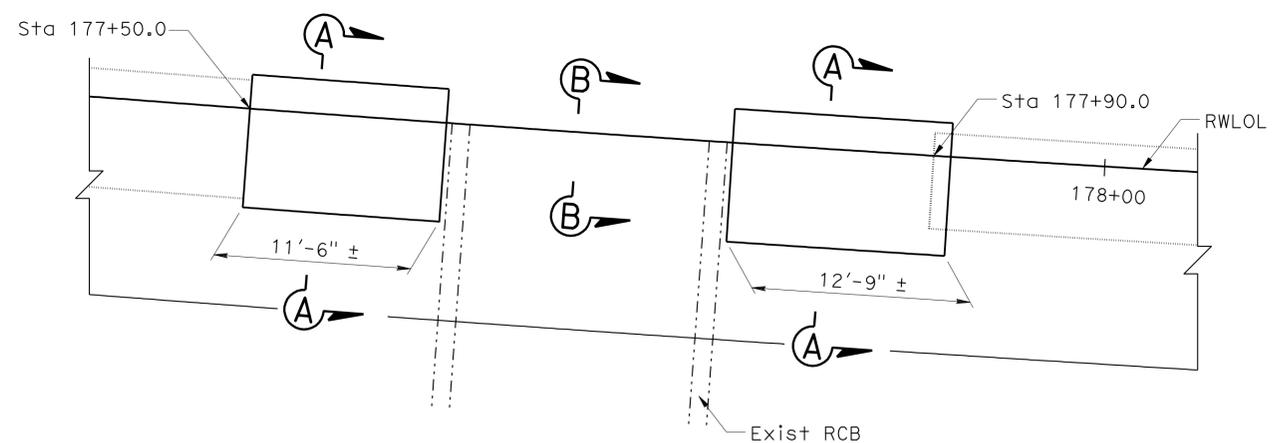
ELEVATION
3/16" = 1'-0"



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



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



PLAN
3/16" = 1'-0"

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

1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

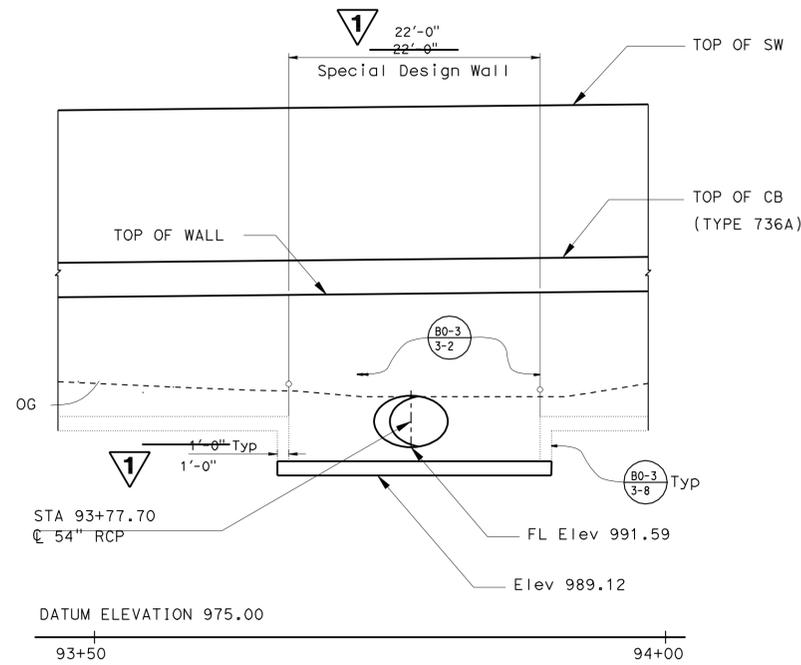
R17-4

DESIGN ENGINEER DANIEL T. ADAMS	DESIGN	BY H. Vu	CHECKED R. Stiltz	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 10	BRIDGE NO. RW 175-1	RETAINING WALL NO. 175
	DETAILS	BY Y. Tang	CHECKED R. Stiltz	LAYOUT	BY H. Vu			CHECKED R. Stiltz	
	QUANTITIES	BY X	CHECKED X	SPECIFICATIONS	BY J. Corrado	CHECKED J. Corrado			

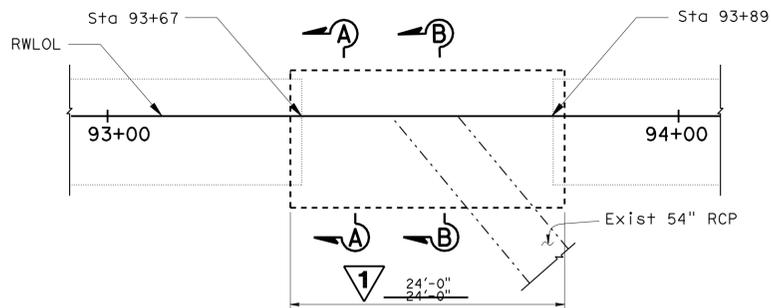
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
 UNIT: 3589
 PROJECT NUMBER & PHASE: 08000005061
 CONTRACT NO.: 08-0M9401
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES
 SHEET 1 OF X

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91,215	21.5/21.7 43,2/45,2,0,0/5,1	830	1743

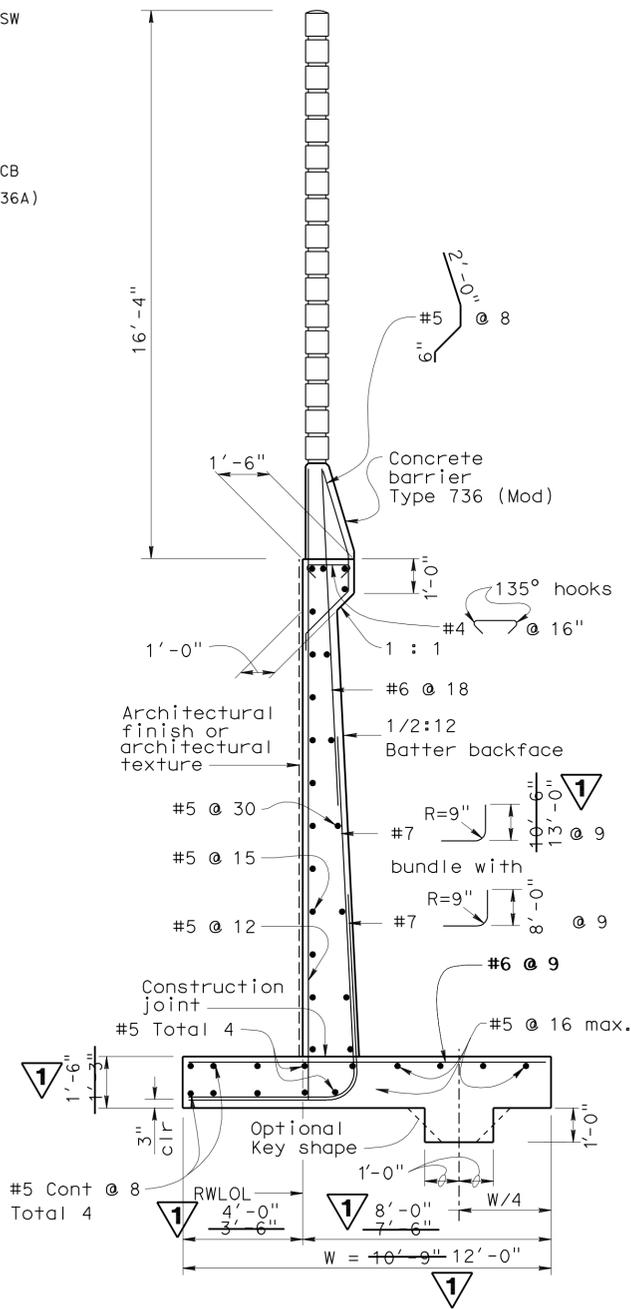
1-2-12
 REGISTERED CIVIL ENGINEER DATE
 LARRY WU
 No. C57035
 Exp. 6-30-13
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



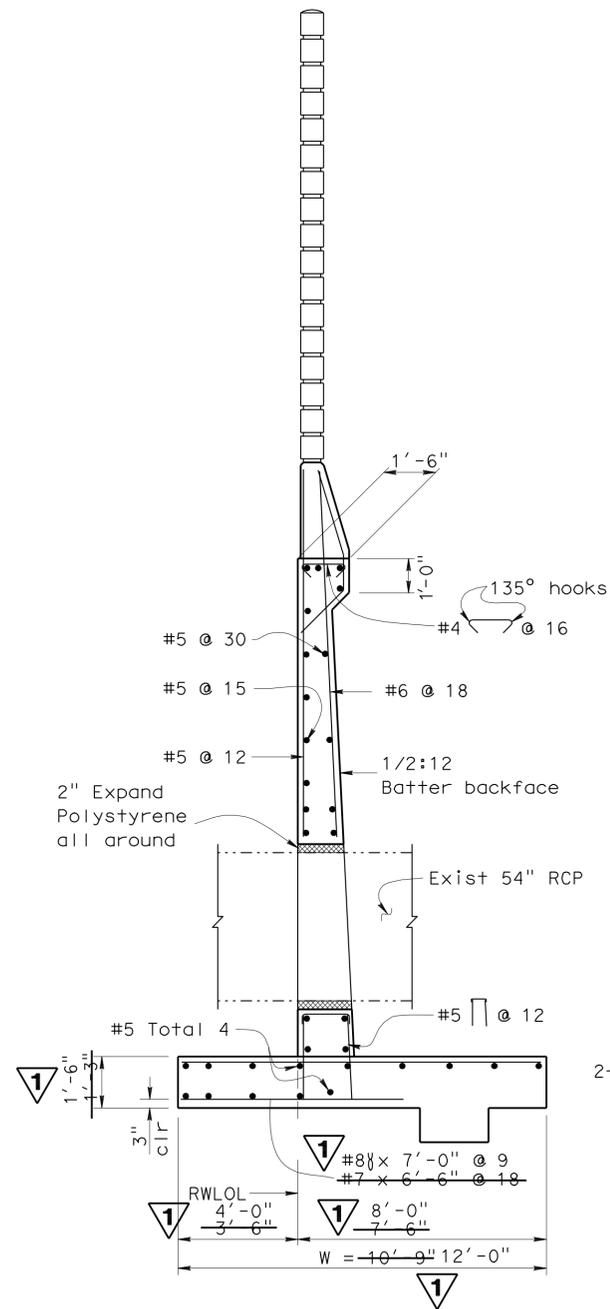
MIRRORED ELEVATION
1"=10'-0"



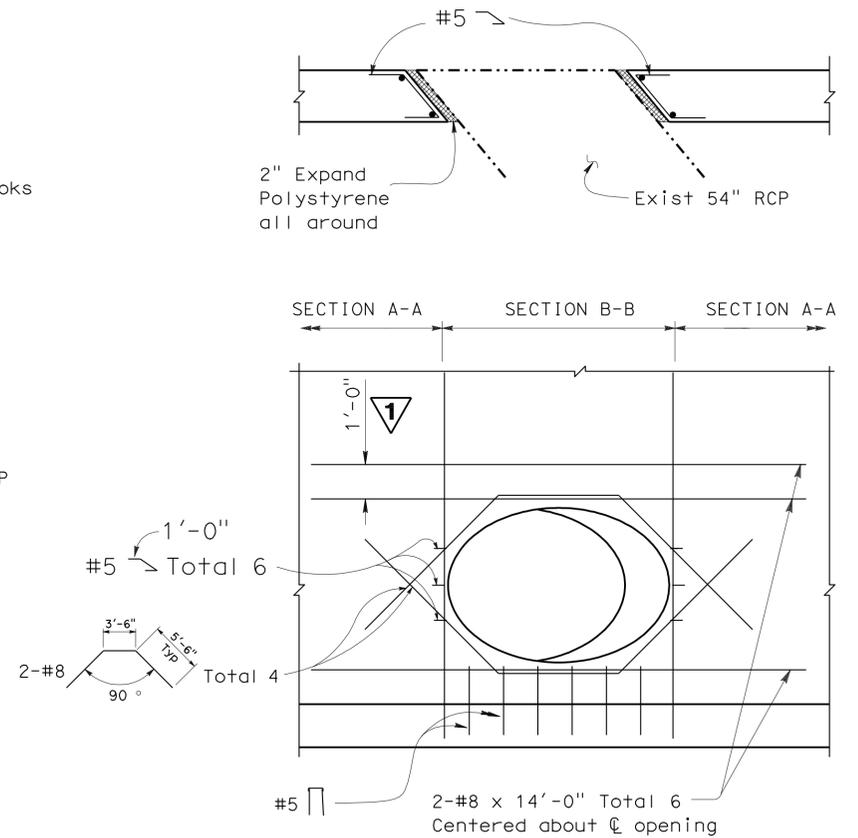
PLAN
3/16"=1'-0"



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



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



SECTION B-B
3/8"=1'-0"
RETAINING WALL OPENING
3/8"=1'-0"

1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

SW3-4

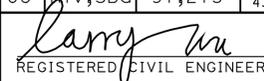
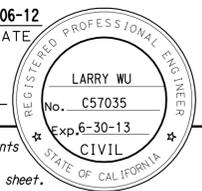
DESIGN	BY H. Wu	CHECKED R. Stiltz
DETAILS	BY Y. Tang	CHECKED R. Stiltz
QUANTITIES	BY X	CHECKED X

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

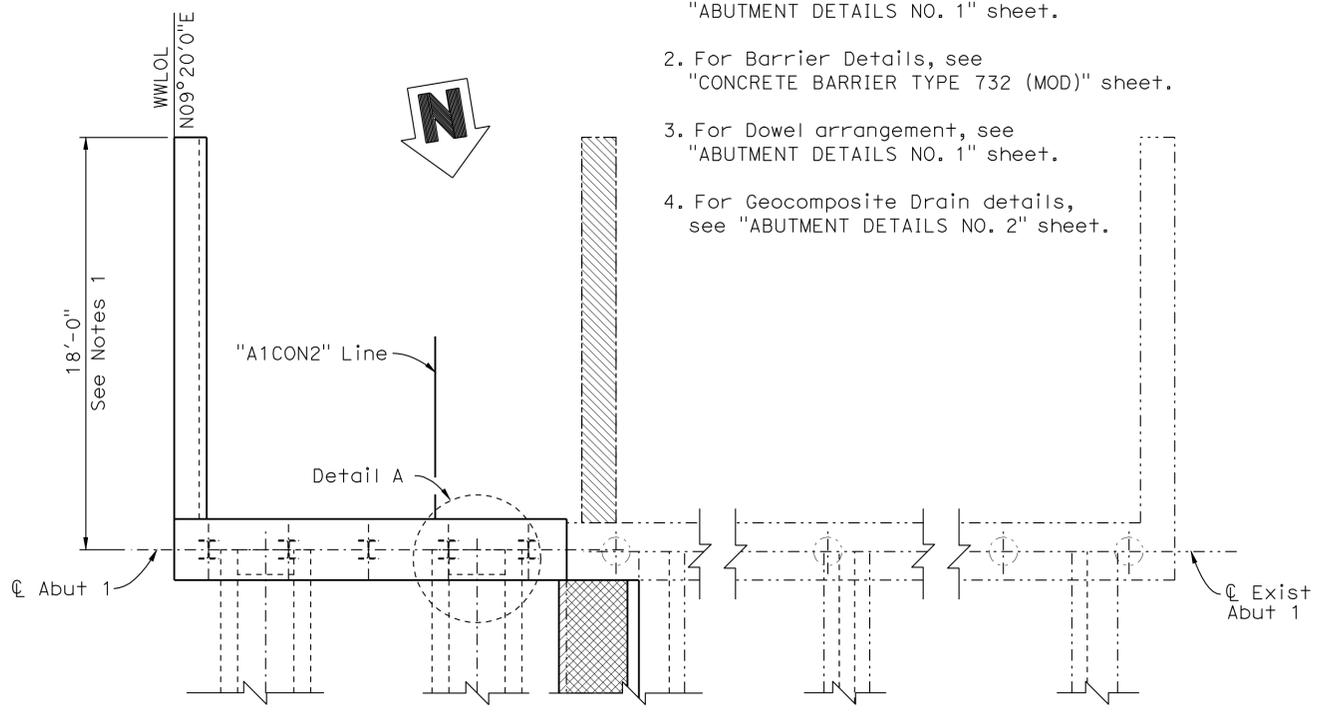
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.	SW 91
POST MILE	X

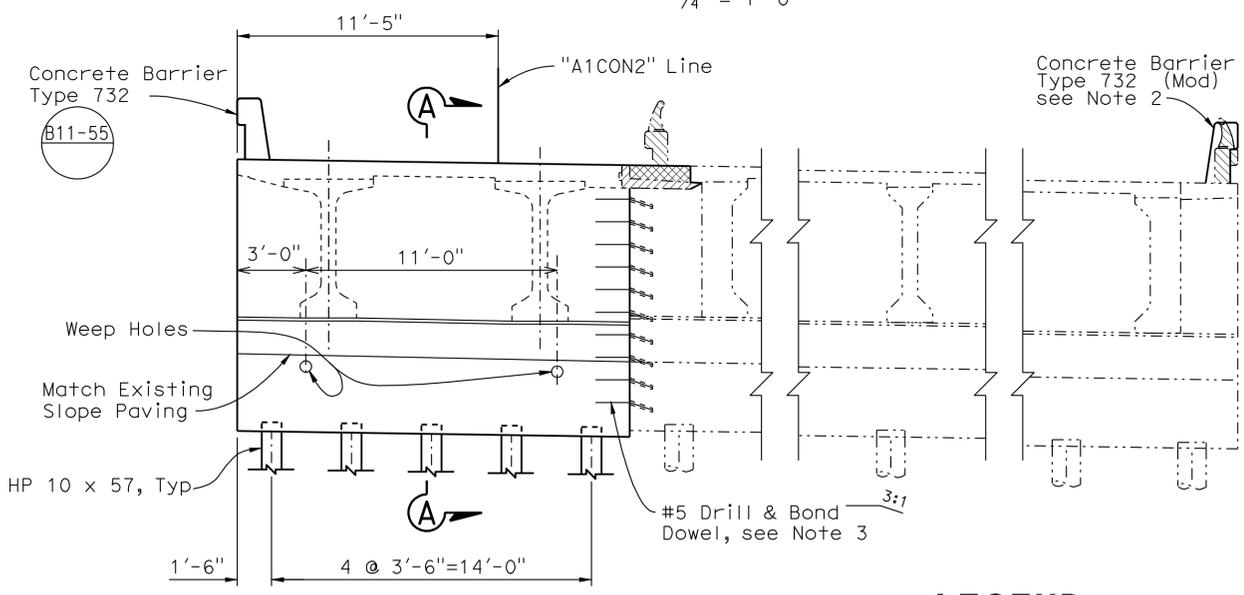
SOUND WALL NO. 91
RETAINING WALL DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91, 215	21.5/21.7, 43.2/45.2, 0.0/5.1	1390	1743
 REGISTERED CIVIL ENGINEER			4-06-12 DATE		
4-16-12 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. For Wingwall Details, see "ABUTMENT DETAILS NO. 1" sheet.
 2. For Barrier Details, see "CONCRETE BARRIER TYPE 732 (MOD)" sheet.
 3. For Dowel arrangement, see "ABUTMENT DETAILS NO. 1" sheet.
 4. For Geocomposite Drain details, see "ABUTMENT DETAILS NO. 2" sheet.

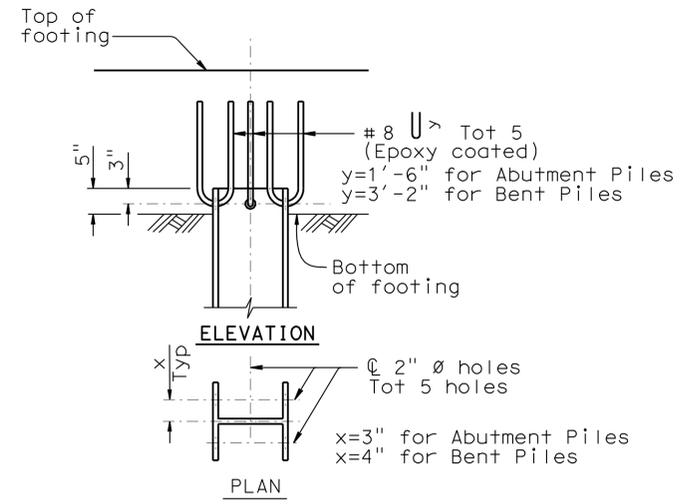


PLAN
1/4" = 1'-0"

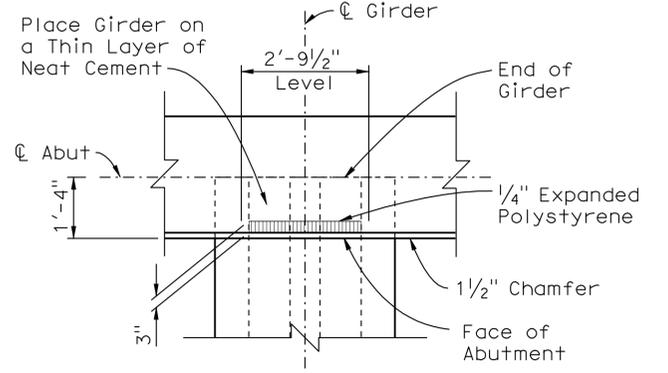


ELEVATION
1/4" = 1'-0"

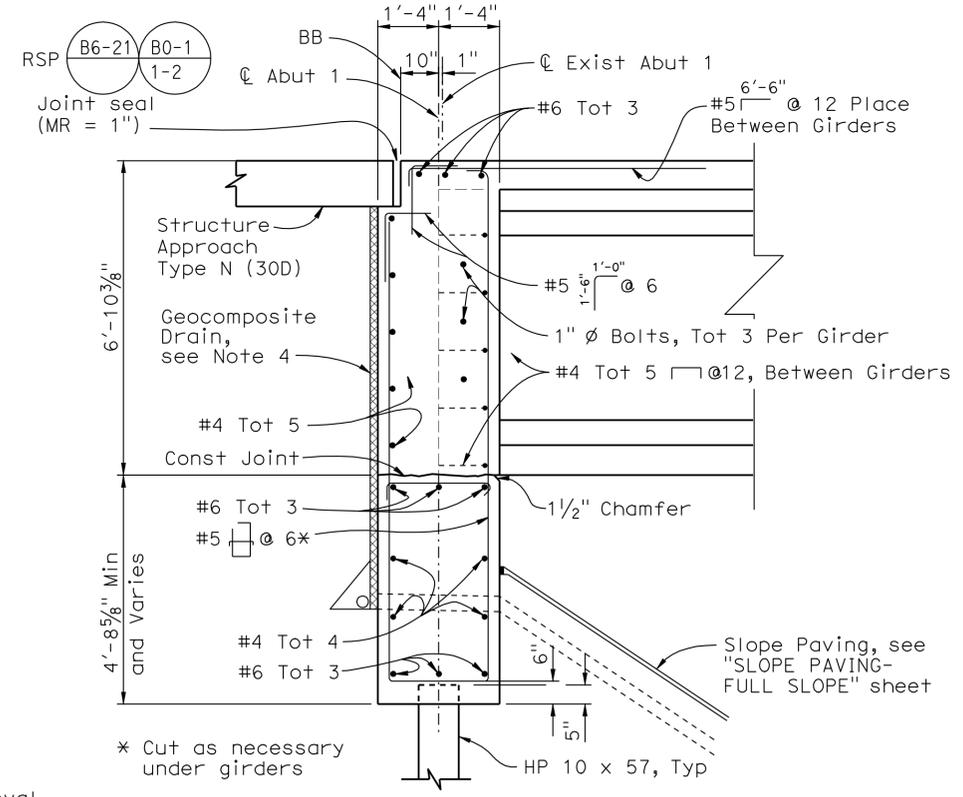
- LEGEND**
- Indicates New Construction
 - - - Indicates Existing Structure
 -  Indicates Existing Bridge Removal
 -  Indicates Deck Closure Pour
 -  Indicates Expanded Polystyrene



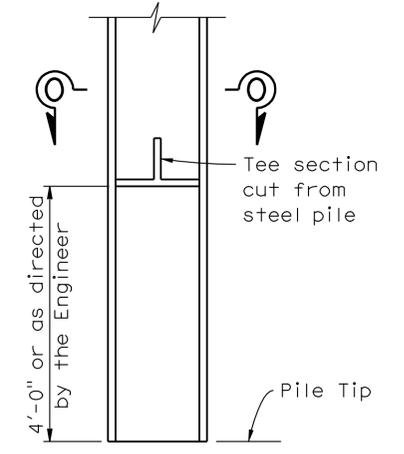
STEEL PILE ANCHOR
NO SCALE



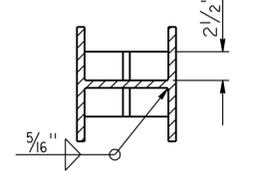
DETAIL A
1/2" = 1'-0"



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



PILE LUG (At Abutment only)
NO SCALE



SECTION 0-0
NO SCALE

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

1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

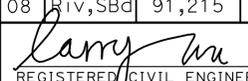
DESIGN	BY A. McPhee	CHECKED C. Duan
DETAILS	BY Y. Tang	CHECKED C. Duan
QUANTITIES	BY A. McPhee	CHECKED F. Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

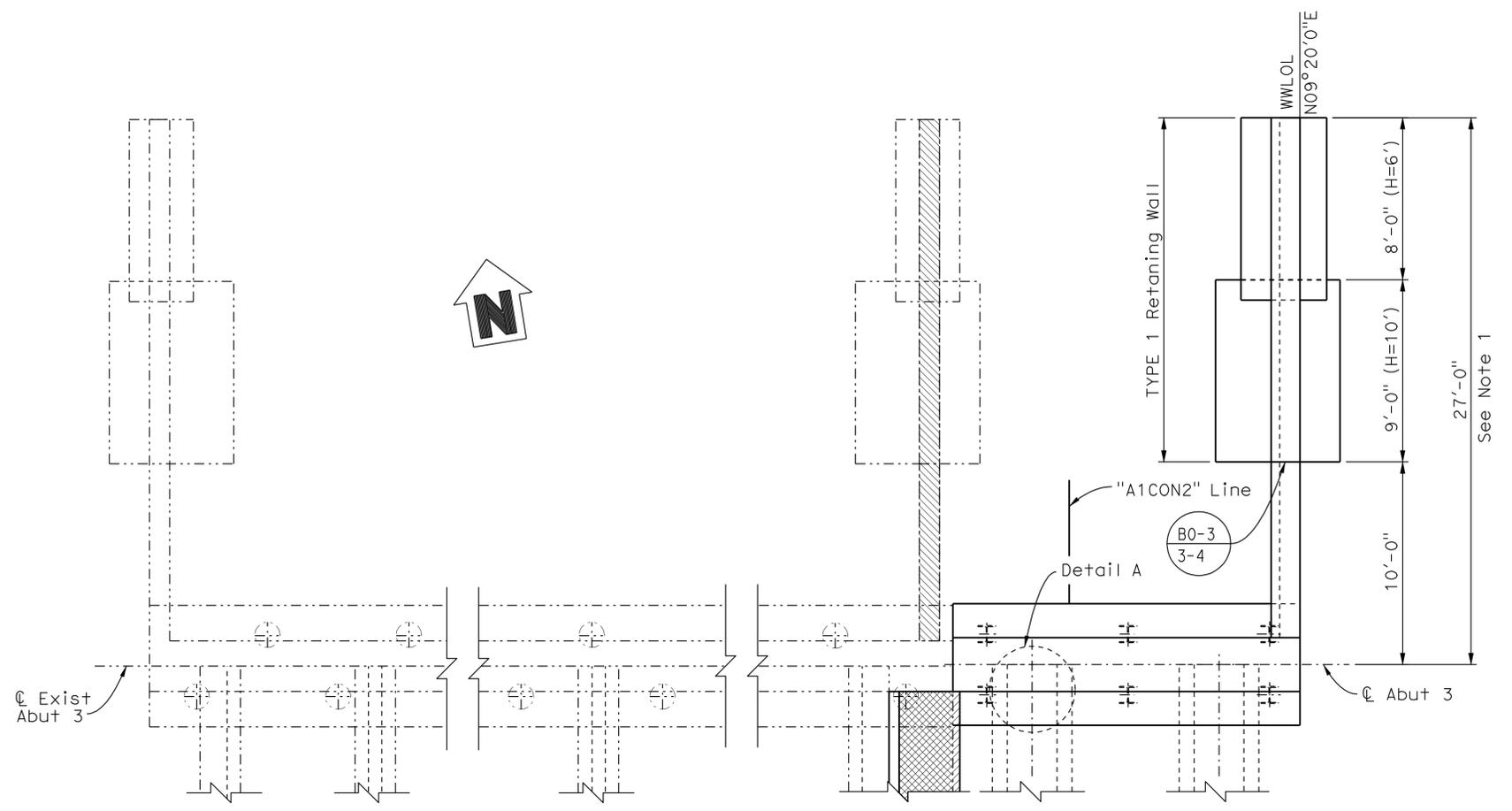
BRIDGE NO.
54-0479L
POST MILE
4.03

I-215/I-10 SEPARATION LT (WIDEN)
ABUTMENT 1 LAYOUT

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91, 215	21.5/21.7, 43.2/45.2, 0.0/5.1	1391	1743
 REGISTERED CIVIL ENGINEER			4-06-12	DATE	
4-16-12			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.					

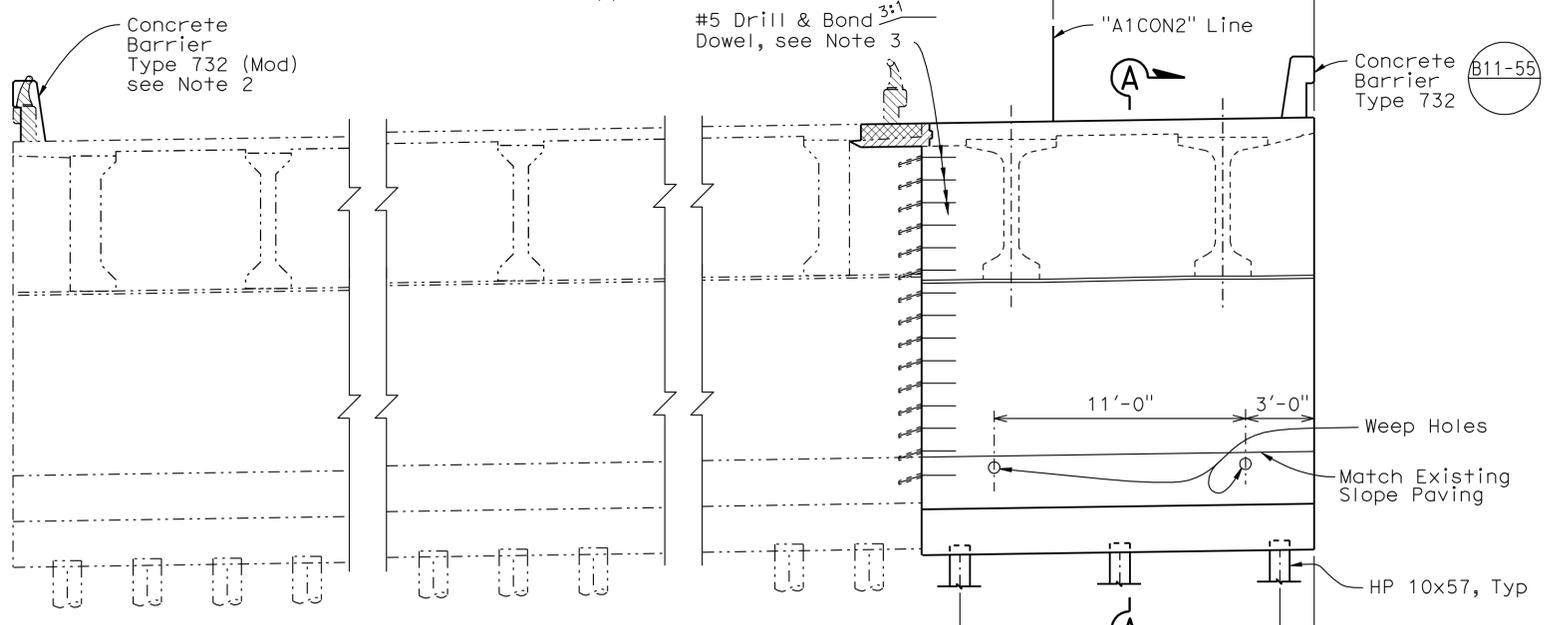
LEGEND

- Indicates New Construction
- - - Indicates Existing Structure
-  Indicates Existing Bridge Removal
-  Indicates Closure Pour



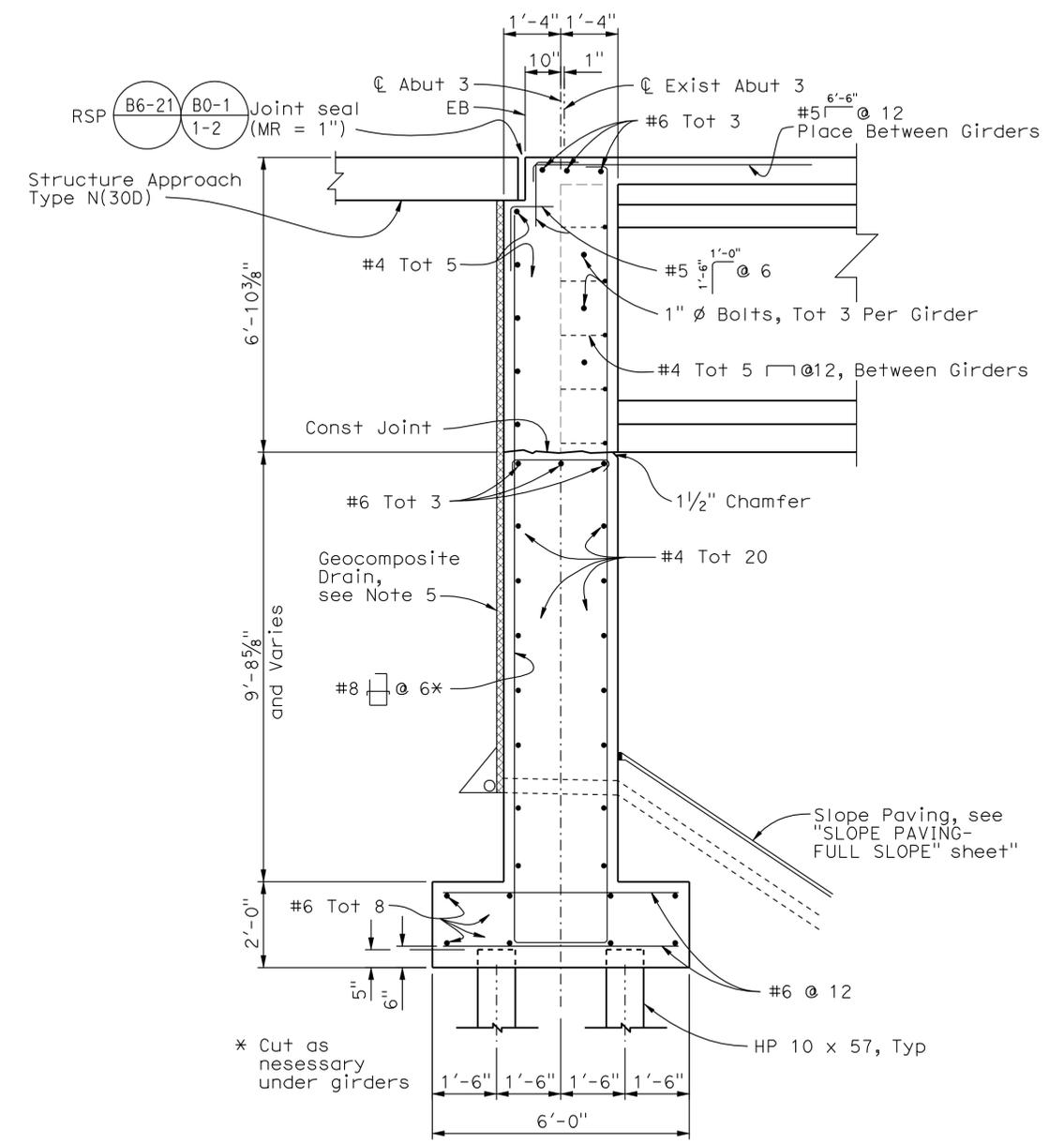
ABUTMENT 3 PLAN

1/4" = 1'-0"



ABUTMENT 3 ELEVATION

1/4" = 1'-0"



SECTION A-A

1/2" = 1'-0"

NOTES:

1. For Wingwall/ Retaining Wall details, see "ABUTMENT DETAILS NO. 1" sheet.
2. For Barrier details, see "CONCRETE BARRIER TYPE 732 (MOD)" sheet.
3. For Drill and Bond Dowel Arrangement, see ABUTMENT DETAILS NO. 2" sheet.
4. For Detail A and Steel Pile Anchor details, see "ABUTMENT 1 LAYOUT" sheet.
5. For Geocomposite Drain details, see "ABUTMENT DETAILS NO. 2" sheet.

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

1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

DESIGN	BY A. McPhee	CHECKED C. Duan
DETAILS	BY Y. Tang	CHECKED C. Duan
QUANTITIES	BY A. McPhee	CHECKED F. Chen

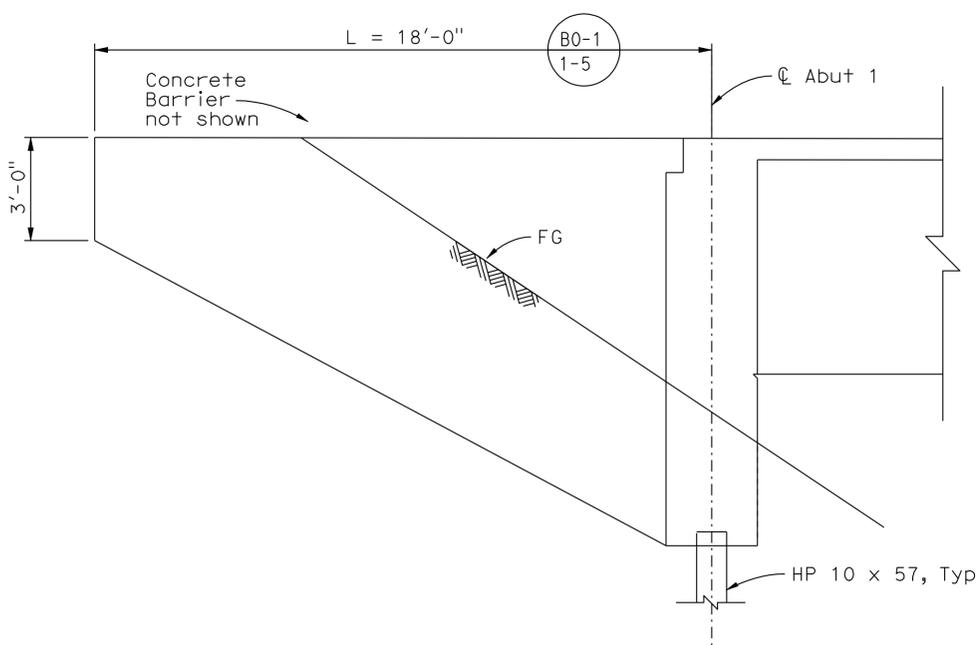
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

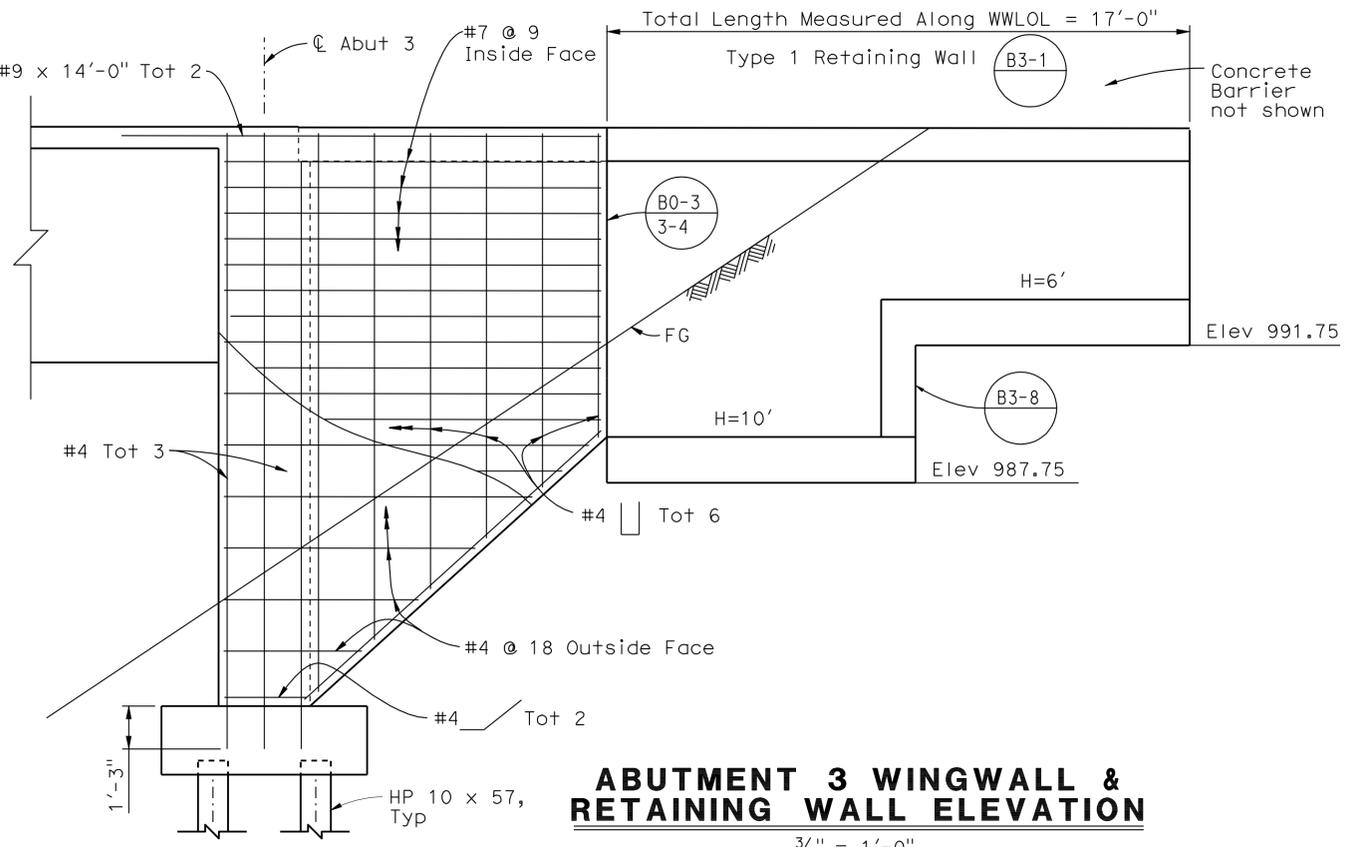
BRIDGE NO.	54-0479L
POST MILE	4.03

I-215/I-10 SEPARATION LT (WIDEN)
ABUTMENT 3 LAYOUT

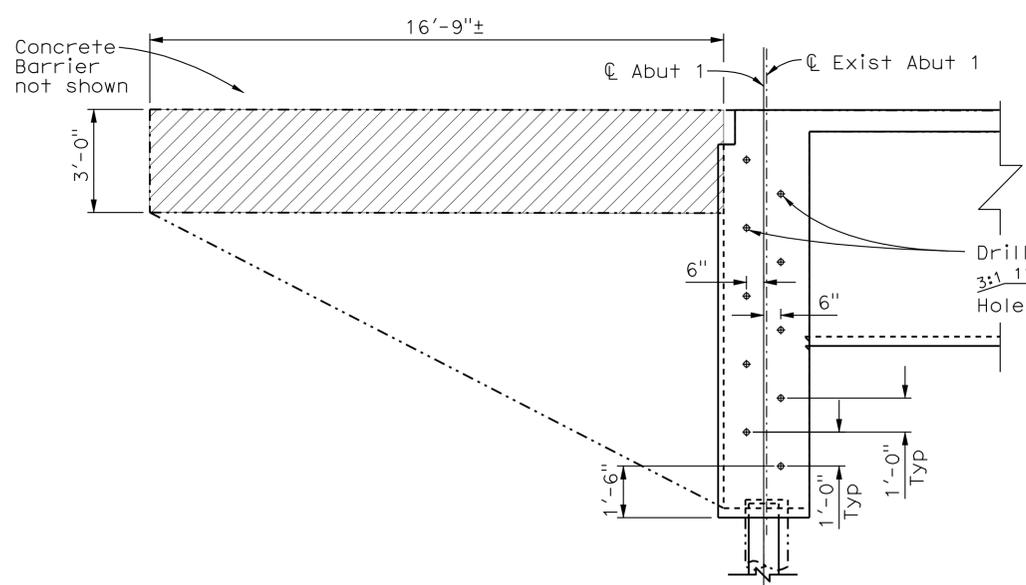
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91, 215	21.5/21.7, 43.2/45.2, 0.0/5.1	1392	1743
 REGISTERED CIVIL ENGINEER			4-06-12 DATE		
4-16-12 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



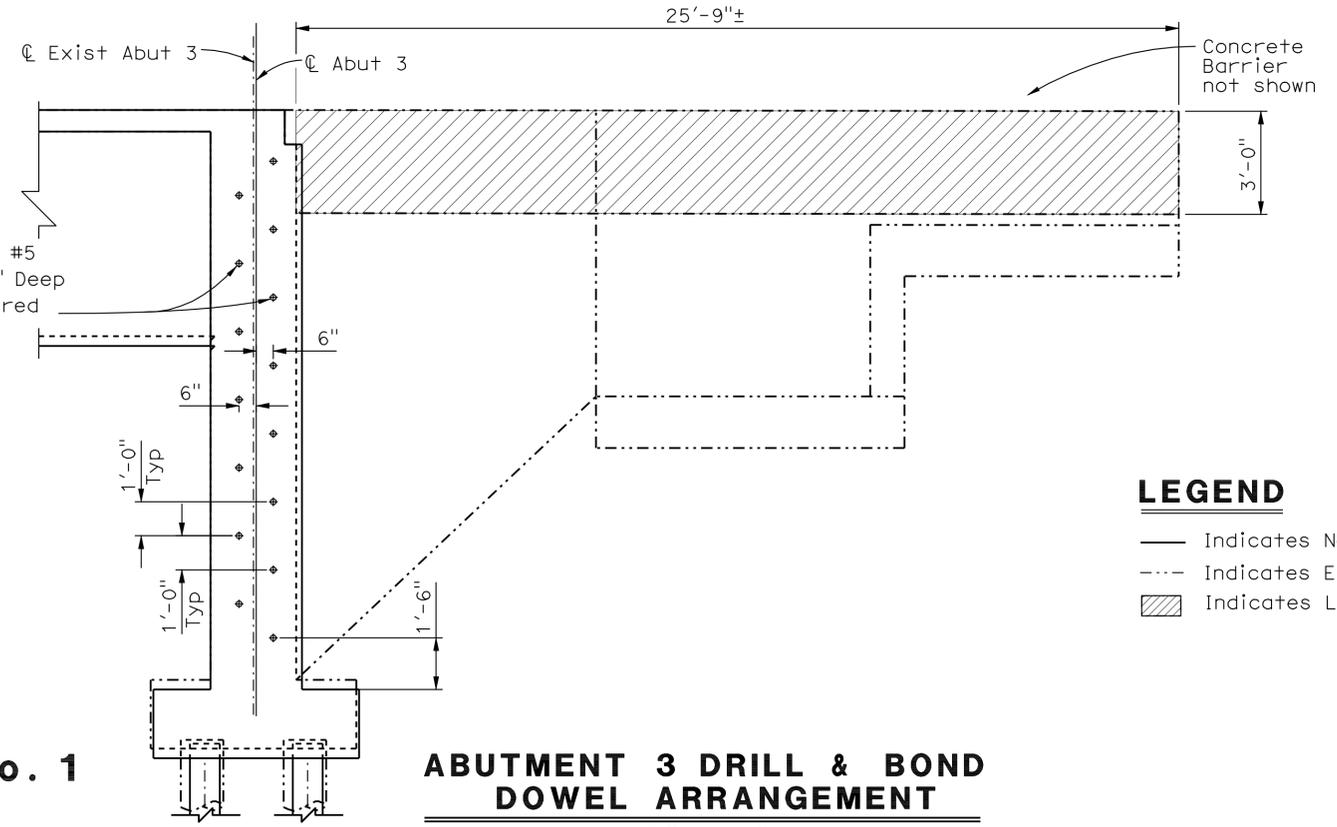
ABUTMENT 1 WINGWALL
 $\frac{3}{8}'' = 1'-0''$



ABUTMENT 3 WINGWALL & RETAINING WALL ELEVATION
 $\frac{3}{8}'' = 1'-0''$



ABUTMENT 1 DRILL & BOND DOWEL ARRANGEMENT



ABUTMENT 3 DRILL & BOND DOWEL ARRANGEMENT
 $\frac{3}{8}'' = 1'-0''$

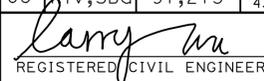
LEGEND

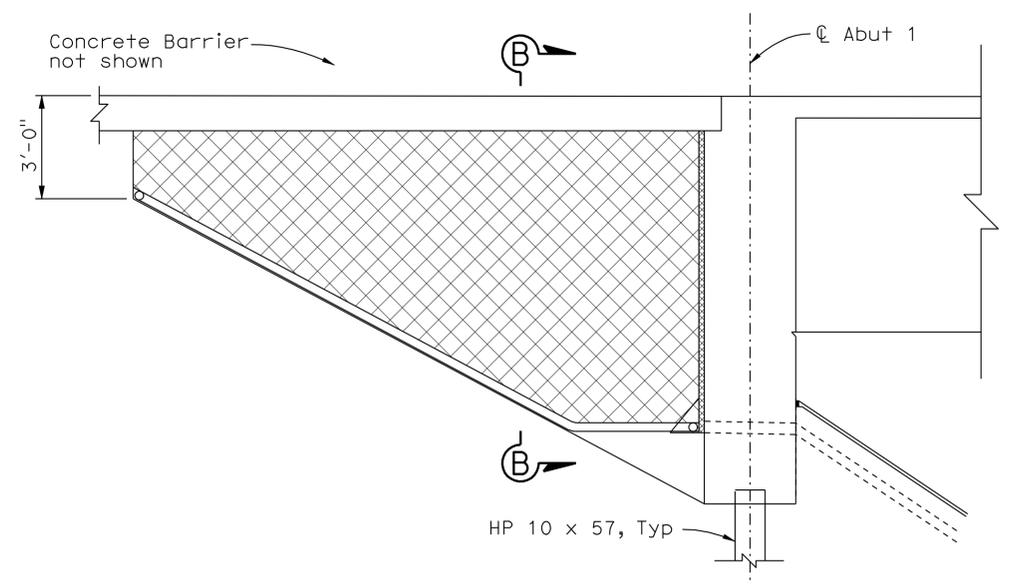
- Indicates New Construction
- - - Indicates Existing Structure
- ▨ Indicates Limits of Bridge Removal

1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

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

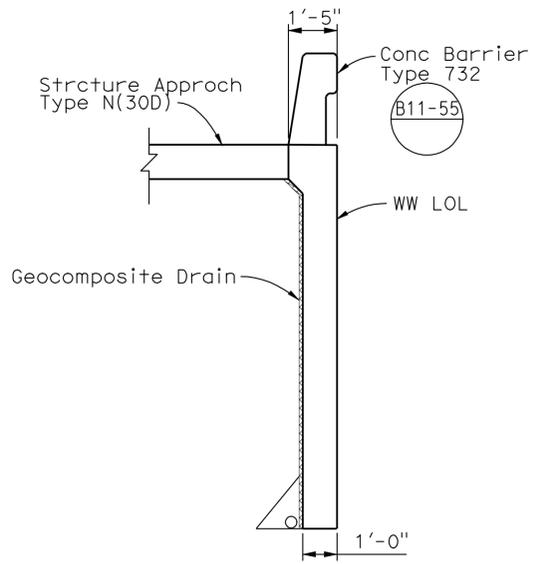
DESIGN BY A. McPhee CHECKED C. Duan DETAILS BY Y. Tang CHECKED C. Duan QUANTITIES BY A. McPhee CHECKED F. Chen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. 54-0479L	I-215/I-10 SEPARATION LT (WIDEN) ABUTMENT DETAILS NO. 1
			POST MILE 4.03	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			UNIT: 3589 PROJECT NUMBER & PHASE: 08000005061	CONTRACT NO.: 08-0M9401
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES: 7-16-11, 11-14-11, 9-21-12 SHEET 6 OF 28

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91, 215	21.5/21.7, 43.2/45.2, 0.0/5.1	1393	1743
 REGISTERED CIVIL ENGINEER			4-06-12 DATE		
4-16-12 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>					



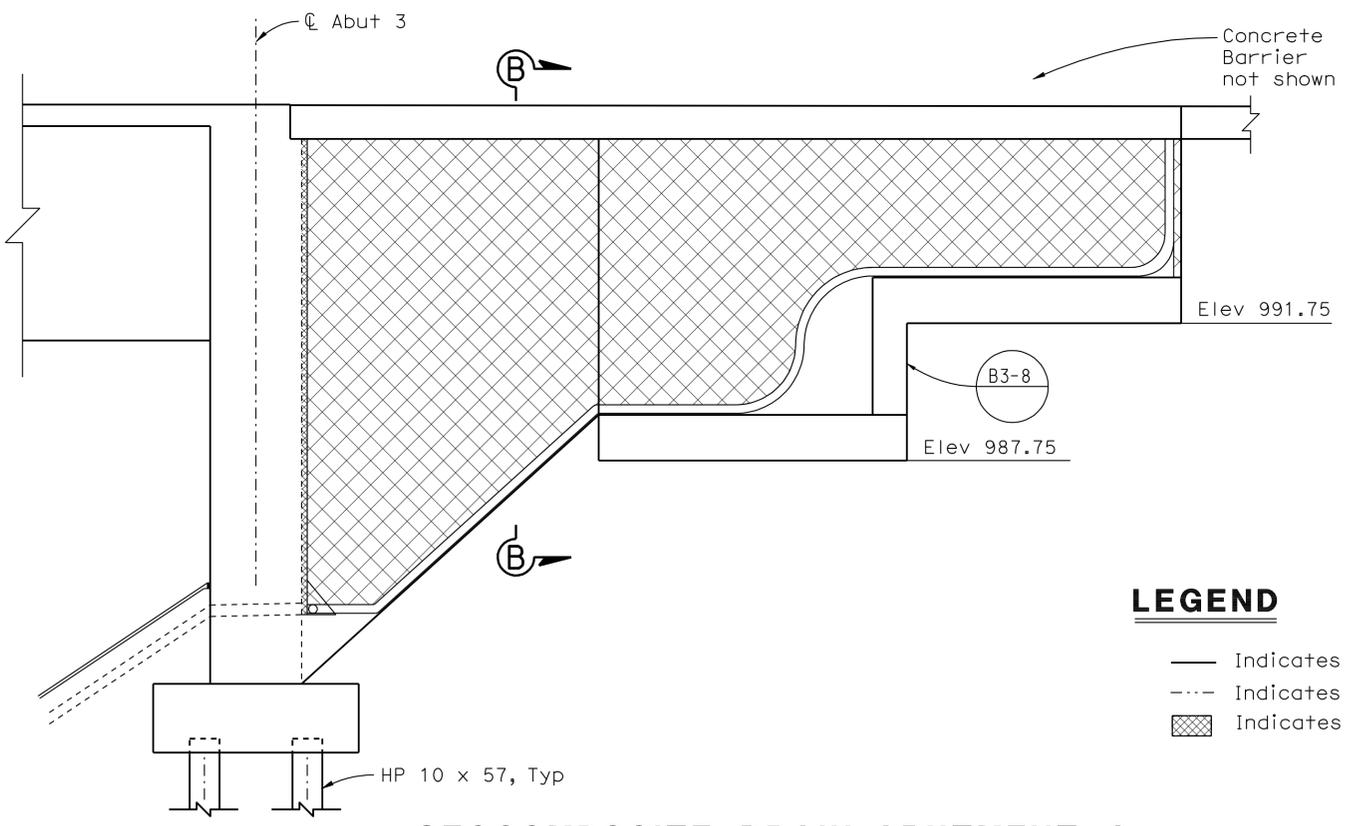
GEOCOMPOSITE DRAIN-ABUTMENT 1

3/8" = 1'-0"



SECTION B-B

3/8" = 1'-0"

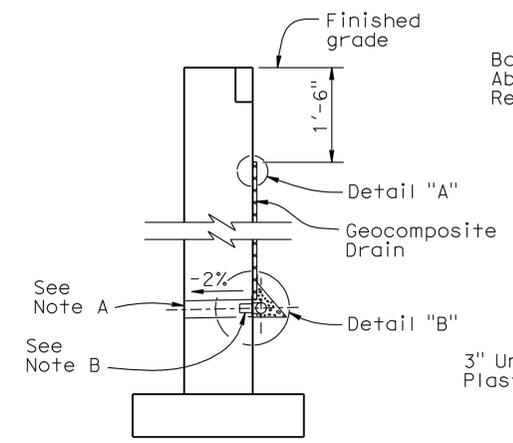


GEOCOMPOSITE DRAIN-ABUTMENT 3

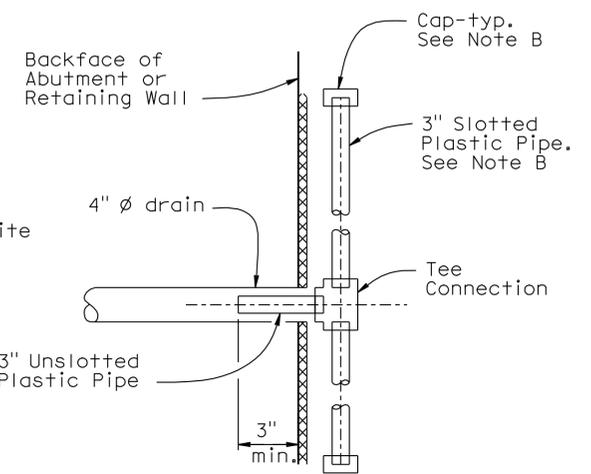
3/8" = 1'-0"

LEGEND

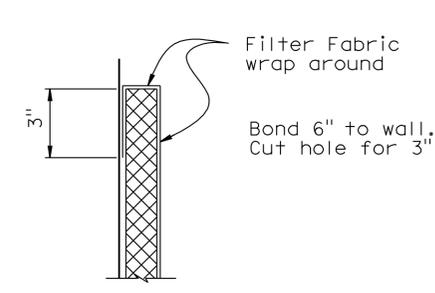
- Indicates New Construction
- - - Indicates Existing Structure
- ▨ Indicates Geocomposite Drain



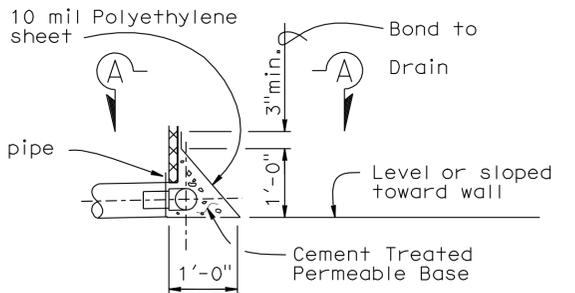
WALL SECTION



SECTION A-A



DETAIL "A"



DETAIL "B"

WEEP HOLE AND GEOCOMPOSITE DRAIN

ALTERNATIVE TO BRIDGE DETAIL 

- NOTES:**
- A. 4" Ø drains at intermediate sag points and at 25' max center to center. Exposed wall drains shall be located 3"± above finished grade.
 - B. Geocomposite drain, cement treated permeable base, and 3"Ø 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:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

DESIGN	BY A. McPhee	CHECKED C. Duan
DETAILS	BY Y. Tang	CHECKED C. Duan
QUANTITIES	BY A. McPhee	CHECKED F. Chen

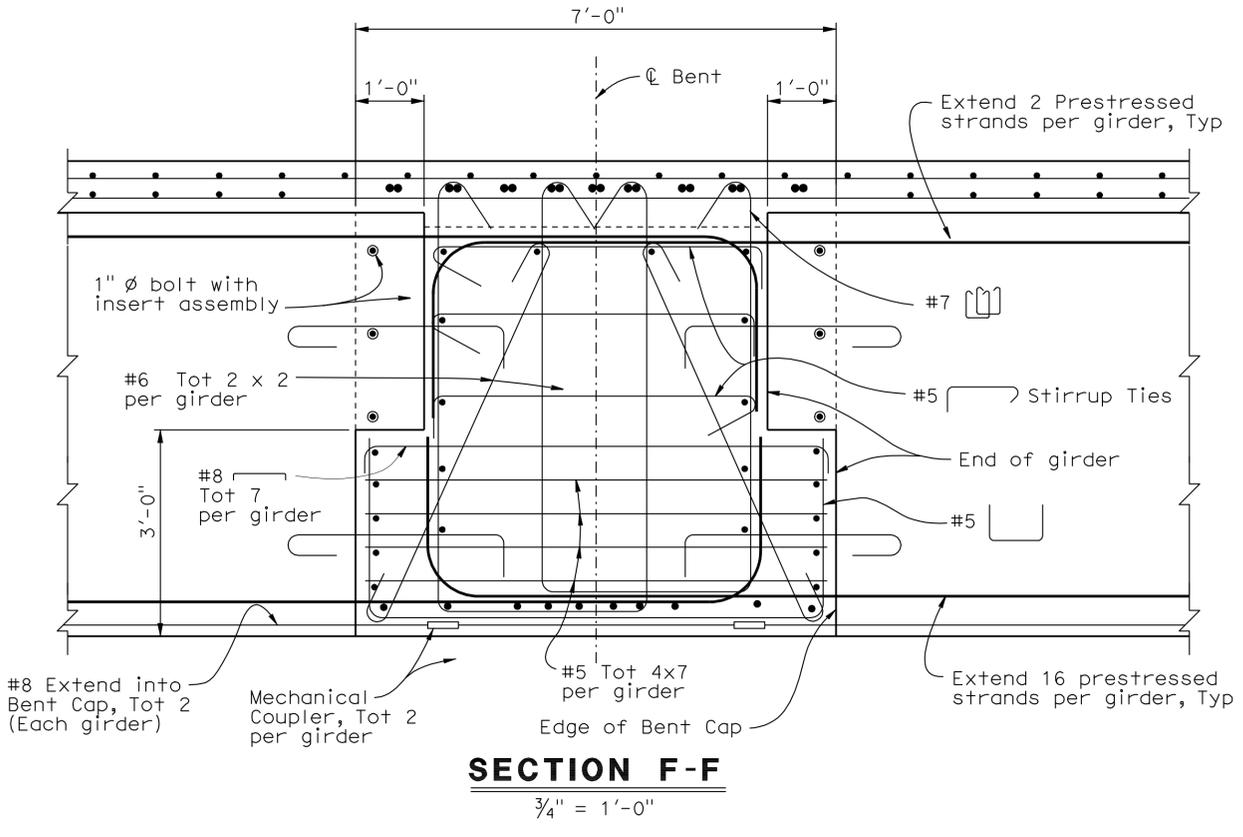
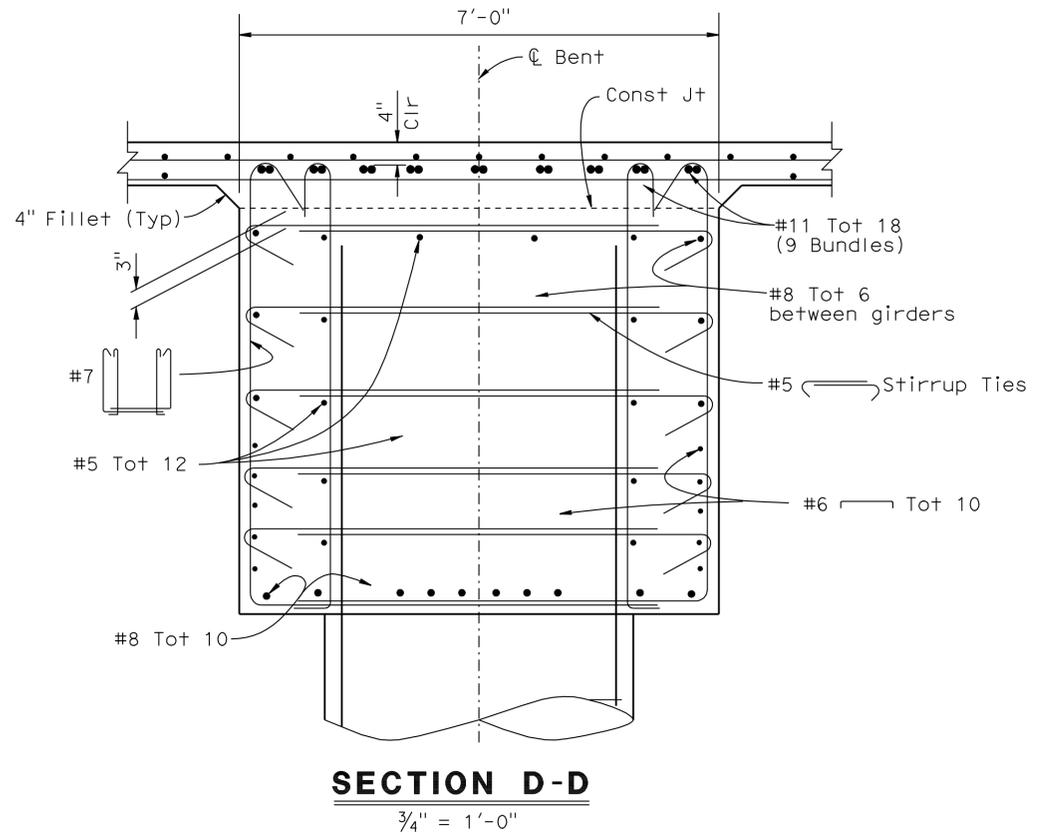
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

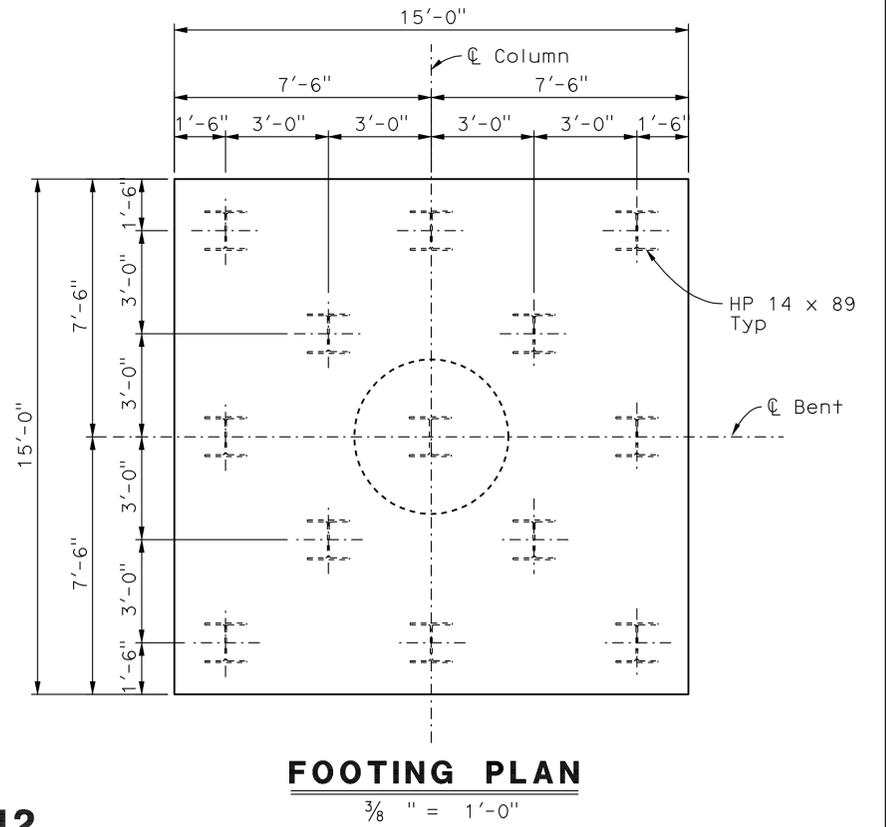
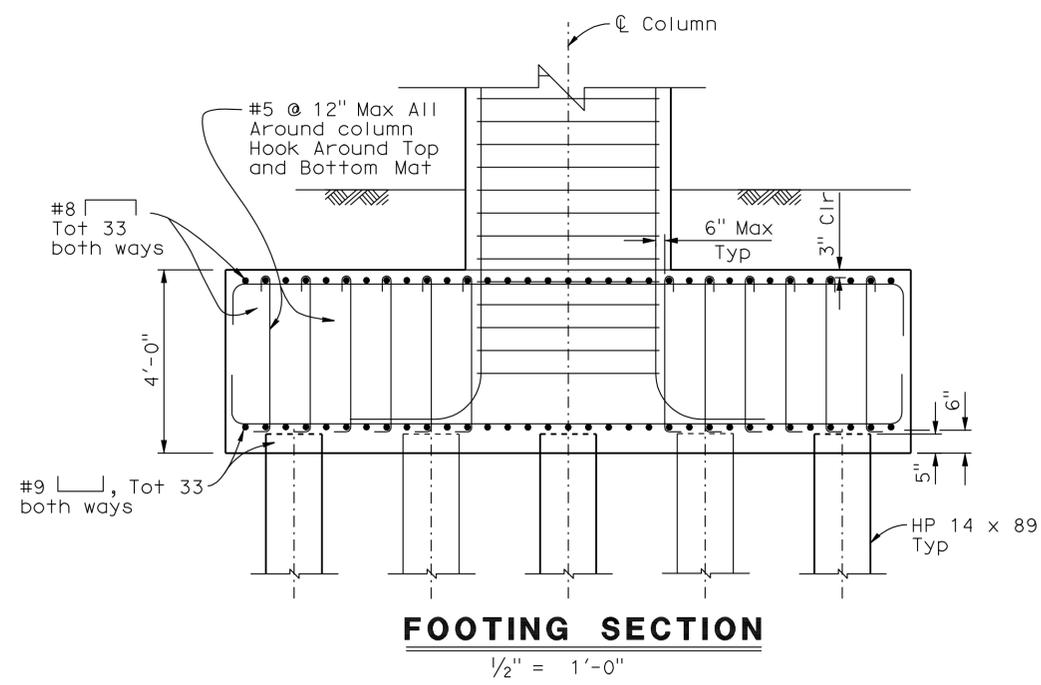
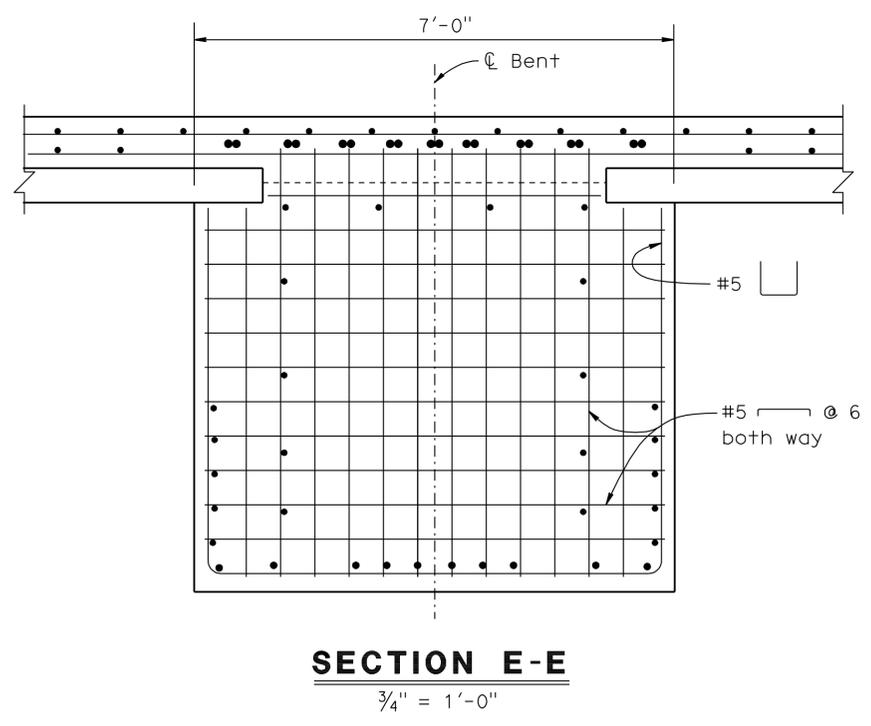
BRIDGE NO.
54-0479L
POST MILE
4.03

I-215/1/10 SEPARATION LT (WIDEN)
ABUTMENT DETAILS NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91, 215	21.5/21.7, 43.2/45.2, 0.0/5.1	1395	1743
 REGISTERED CIVIL ENGINEER			4-06-12 DATE		
4-16-12 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



NOTE: For details shown but not noted, see "Section D-D".



NOTE: For details shown but not noted, see "Section D-D".

1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

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

DESIGN BY A. McPhee CHECKED C. Duan DETAILS BY Y. Tang CHECKED C. Duan QUANTITIES BY A. McPhee CHECKED X	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. 54-0479L	I-215/I-10 SEPARATION LT (WIDEN)		
	UNIT: 3589 PROJECT NUMBER & PHASE: 0800000506			POST MILE 4.03	BENT DETAILS	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			CONTRACT NO.: 08-0M9401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 7-24-11 11-16-11 9-21-12 SHEET 9 OF 28

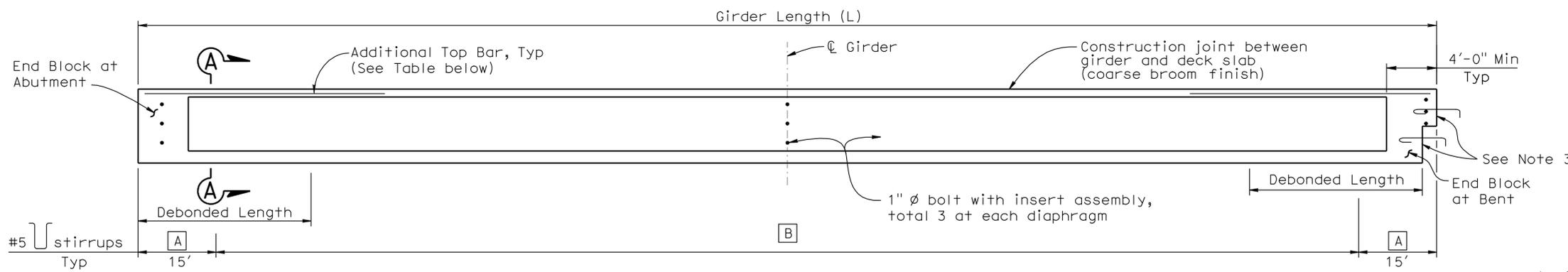
USERNAME => s114926 DATE PLOTTED => 01-OCT-2012 TIME PLOTTED => 09:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91,215	21.5/21.7, 43.2/45.2, 0.0/5.1	1400	1743

LARRY WU
 REGISTERED CIVIL ENGINEER
 No. C57035
 Exp. 6-30-13
 CIVIL
 STATE OF CALIFORNIA

4-06-12 DATE
 4-16-12 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.

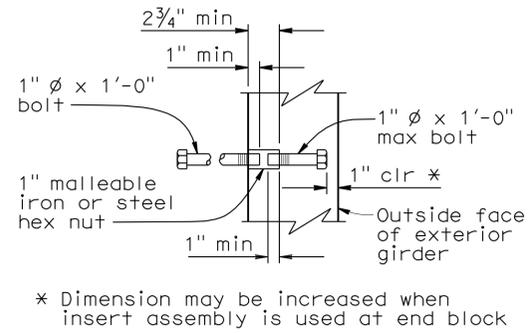


Location	A	B
Girder A, B, C and D	#5 @ 6"	#5 @ 9"

GIRDER ELEVATION

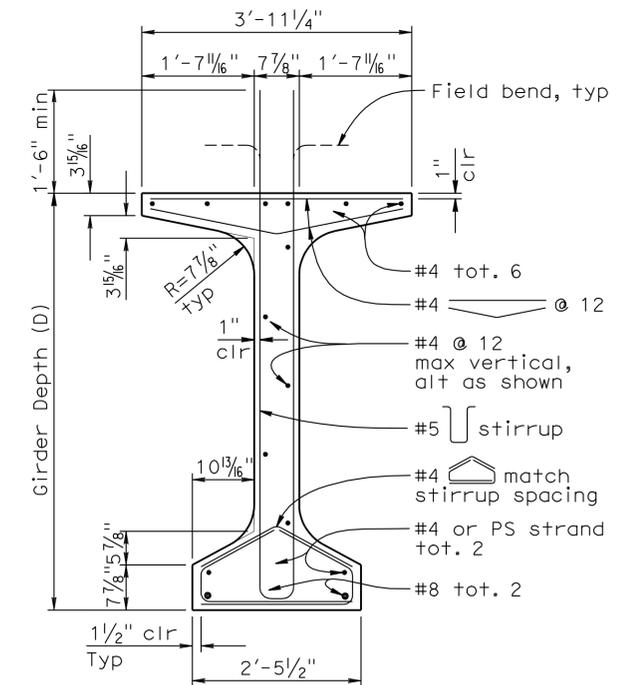
- NOTES**
- For End Block details, see "PC/PS BULB-TEE GIRDER DETAILS NO.2" sheet.
 - Girder ends to be cast such that a level surface is provided at bearing pads.
 - Roughen surface by on amplitude of 1/4"

Location	Girder Length (L)	Girder Depth (D)	Number of 0.6" Ø Strands	Jacking Force (P) (44 kips/strand)	Concrete Strength (ksi)		Midspan Dead Load Deflection (in)		Additional Top Bar (each end)
					f'ci	f'c	Deck	Rail	
Girders A, B, C and D	126'-8"	6'-7/8"	36	1584 kips	4.5	6.0	1.45	0.06	#8 x 25' Tot 8



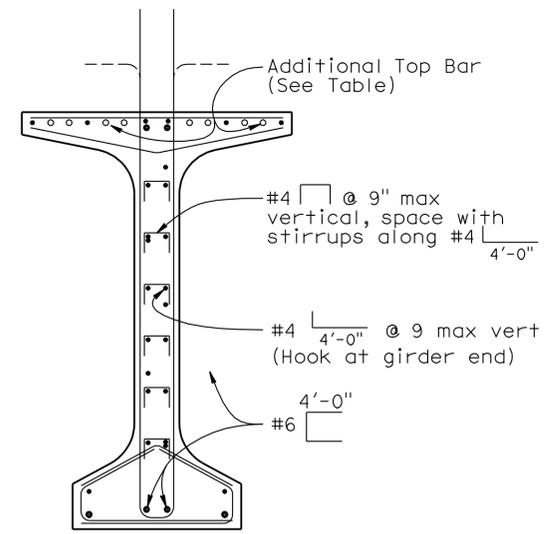
INSERT ASSEMBLY

- ### PRESTRESSING NOTES
- The Jacking Force (P) is the jacking force required at the point of control along the span. The jacking force does not include any fabrication specific losses.
 - The maximum tensile stress in the prestressing steel upon release shall not exceed 75 percent of the specified minimum ultimate tensile strength of the prestressing steel.
 - The maximum temporary tensile stress (jacking stress) in the prestressing steel shall not exceed 80 percent of the specified minimum ultimate tensile strength of the prestressing steel.
 - Concrete strength:
f'ci is at time of initial stressing.
f'c is at 28 days.
 - Deflection components are informational and will be used to set screed line elevations.
 - Screed line elevations for deck concrete will be determined by the Engineer.
 - Prestressing strand shall be 270 ksi low relaxation.



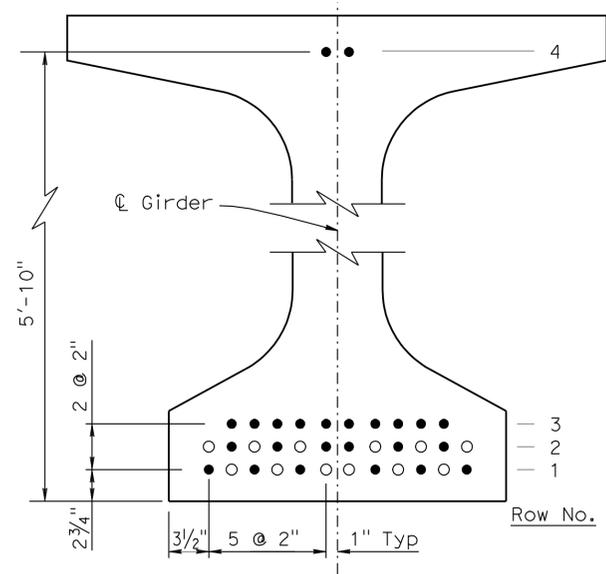
TYPICAL GIRDER SECTION

NOTE:
For "Welded Wire Reinforcement (WWR) Alternative", see "PC/PS BULB-TEE GIRDER DETAILS NO. 2" sheet.



SECTION A-A

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



STRAND TEMPLATE & DEBONDING PATTERN

Girders A, B, C and D			
Row No.	Total No. of Strands	No. of Debonded Strands	Debonded Length
4	2	0	0
3	10	0	0
2	12	6	5'
1	12	6	2 x 20' 2 x 15' 2 x 10'

- Denotes continuously bonded strand location
- Denotes allowable debonded strand location

PRESSTRESS STRAND NOTES

- Strands shall be placed as low as possible in the strand template and symmetrical about the centerline of the girder.
- No more than 33% of the total number of strands or 50% of the strands per horizontal row may be debonded.
- Strand locations may be adjusted as approved by the Engineer.

1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

NO SCALE

DESIGN	BY A. McPhee	CHECKED C. Duan	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0479L	I-215/I-10 SEPARATION LT (WIDEN) PC/PS BULB-TEE GIRDER DETAILS NO. 1
DETAILS	BY Y Tang	CHECKED C. Duan			POST MILE	4.03	
QUANTITIES	BY A. McPhee	CHECKED F. Chen					

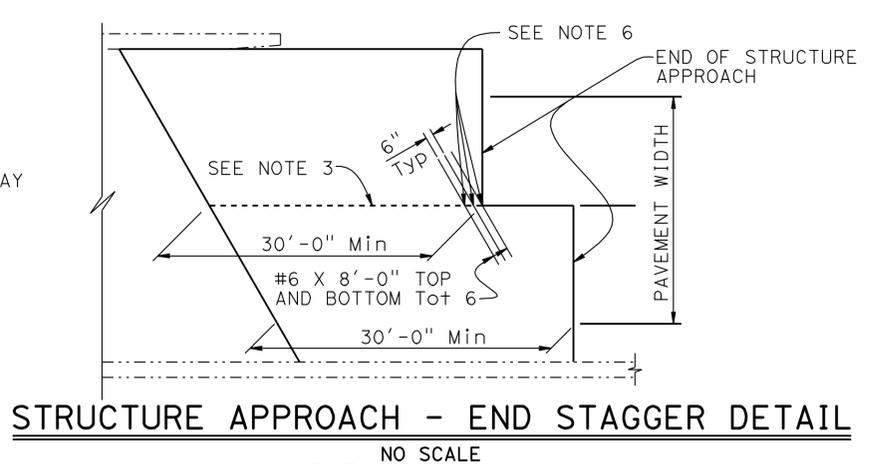
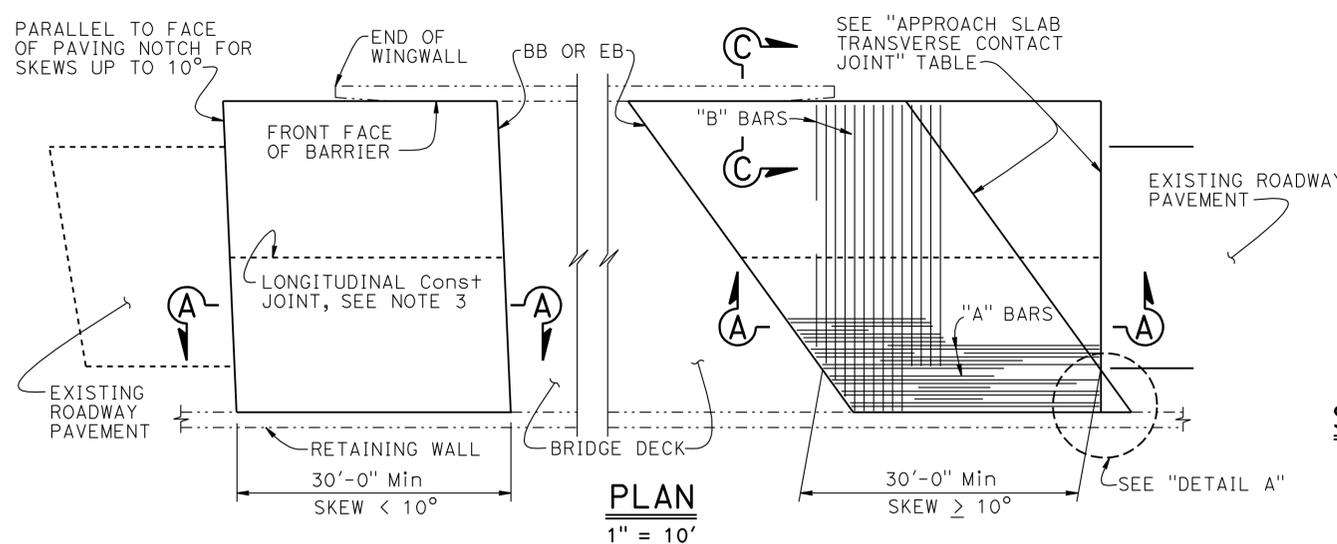
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS UNIT: 3596 PROJECT NUMBER & PHASE: 08000005061 CONTRACT NO.: 08-0M9401 DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
10-20-11 11-02-11 02-10-12 9-21-12	14	28

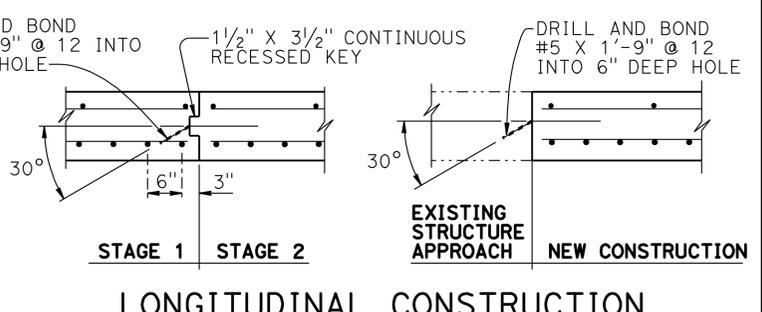
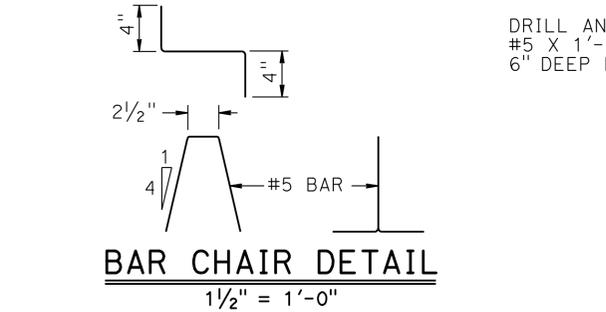
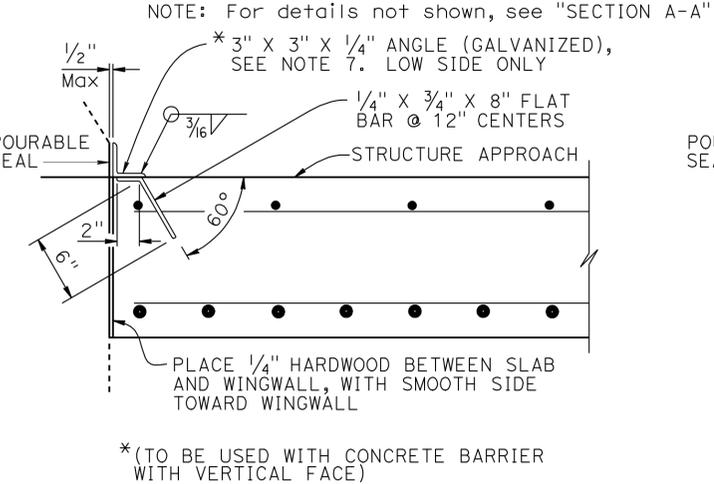
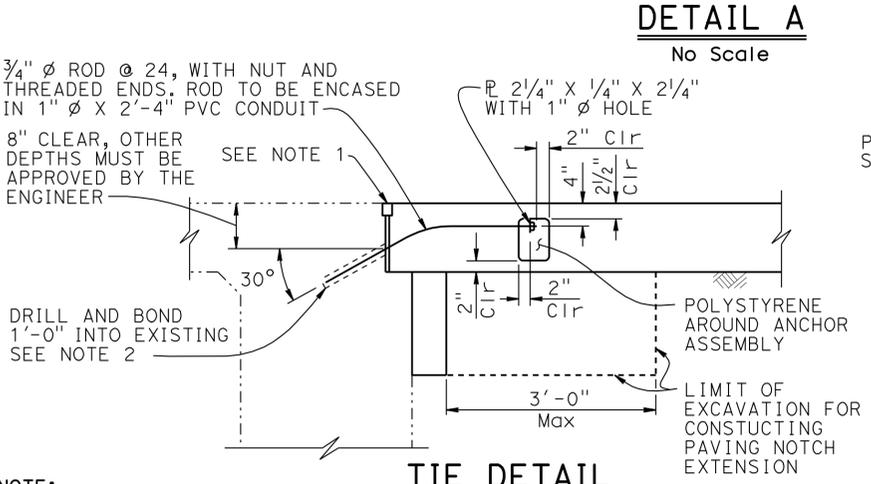
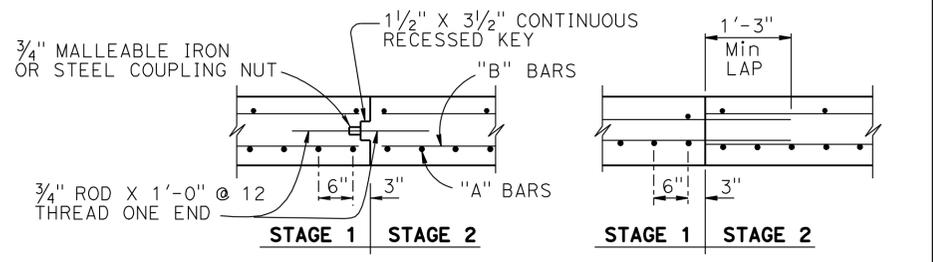
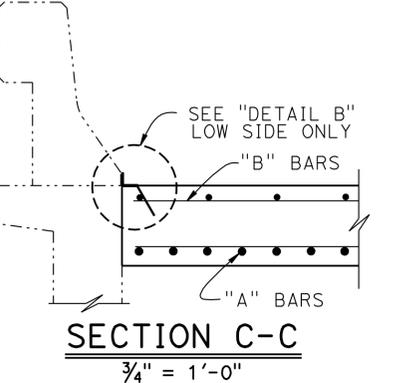
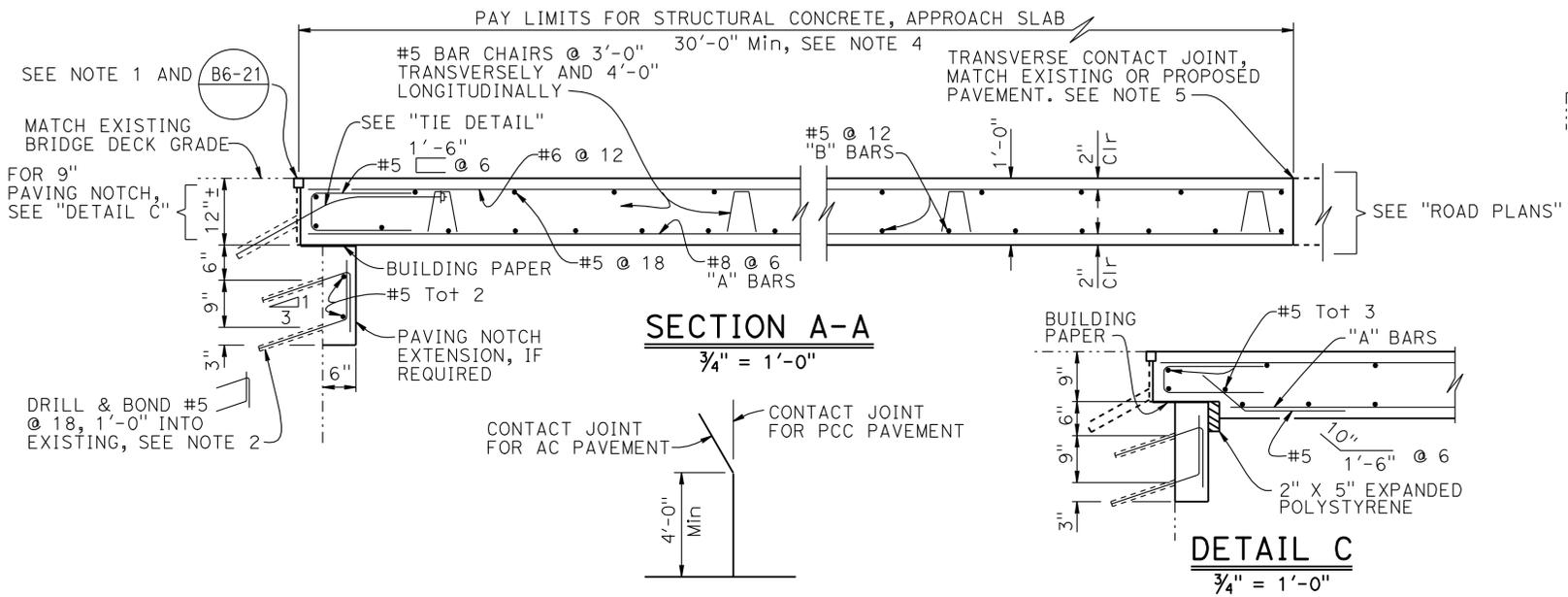
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91,215	21.5/21.7, 43.2/45.2, 0.0/5.1	1405	1743

REGISTERED CIVIL ENGINEER
 LARRY WU
 No. C57035
 Exp. 6-30-13
 CIVIL
 STATE OF CALIFORNIA

4-06-12 DATE
 4-16-12 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.



APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 10°	PARALLEL TO FACE OF PN	PARALLEL TO FACE OF PAVING NOTCH
10° - 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



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

REVISOR PER ADDENDUM No. 1 DATED OCTOBER 3, 2012



- NOTES:
- For details not shown or noted, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required
 - Space to avoid existing prestress anchorages and main reinforcement
 - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines
 - Transverse contact joint shall be a minimum of 5'-0" from an existing or constructed weakened plane joint
 - For transverse contact joint with new PCC paving, refer to Standard Plan P10
 - Couplers are required for stage construction
 - End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable

STANDARD DRAWING
 FILE NO. **xs3-150**
 APPROVAL DATE July 2011

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

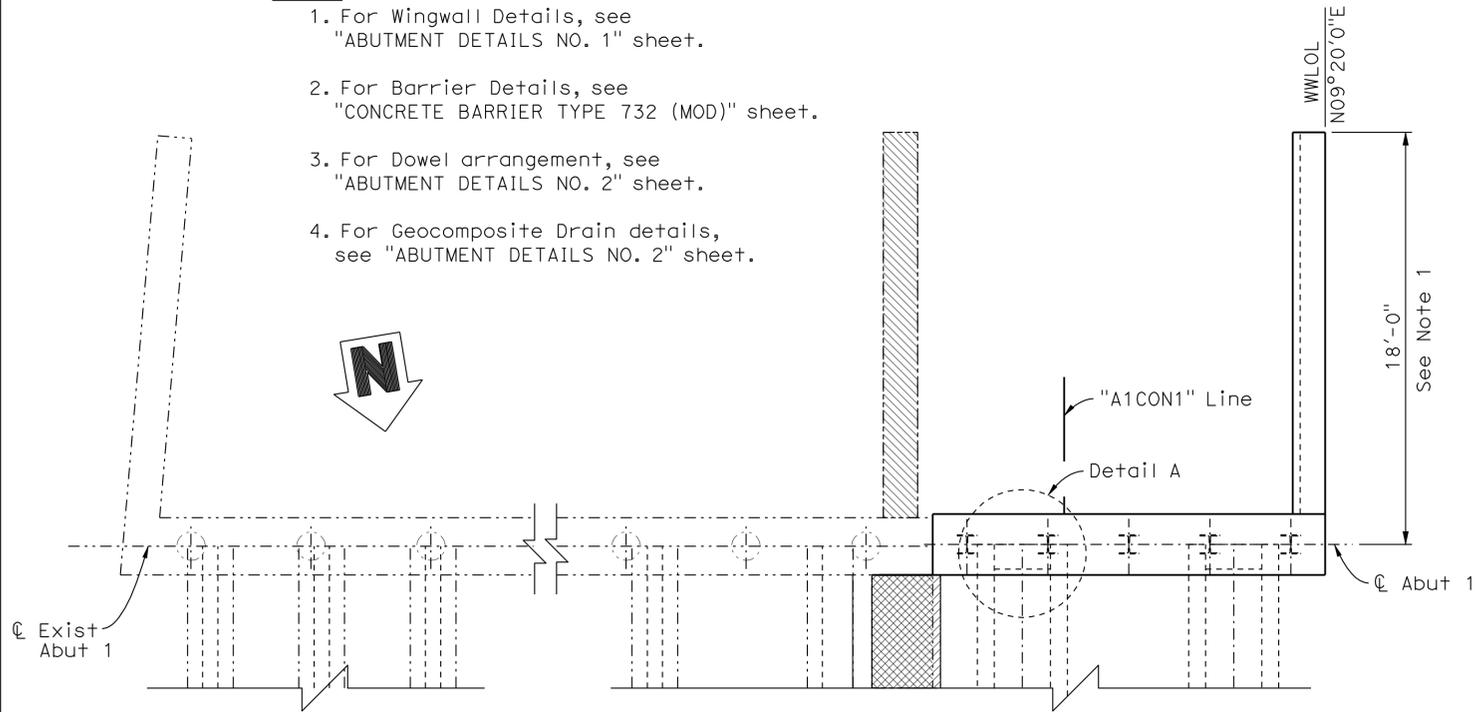
DIVISION OF ENGINEERING SERVICES
 BRIDGE NO. 54-0479L
 POST MILE 4.03

I-215/I-10 SEPARATION LT (WIDEN)
STRUCTURE APPROACH TYPE R(30D)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91, 215	21.5/21.7, 43.2/45.2, 0.0/5.1	1418	1743
 REGISTERED CIVIL ENGINEER			4-06-12	DATE	
4-16-12			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.					
					

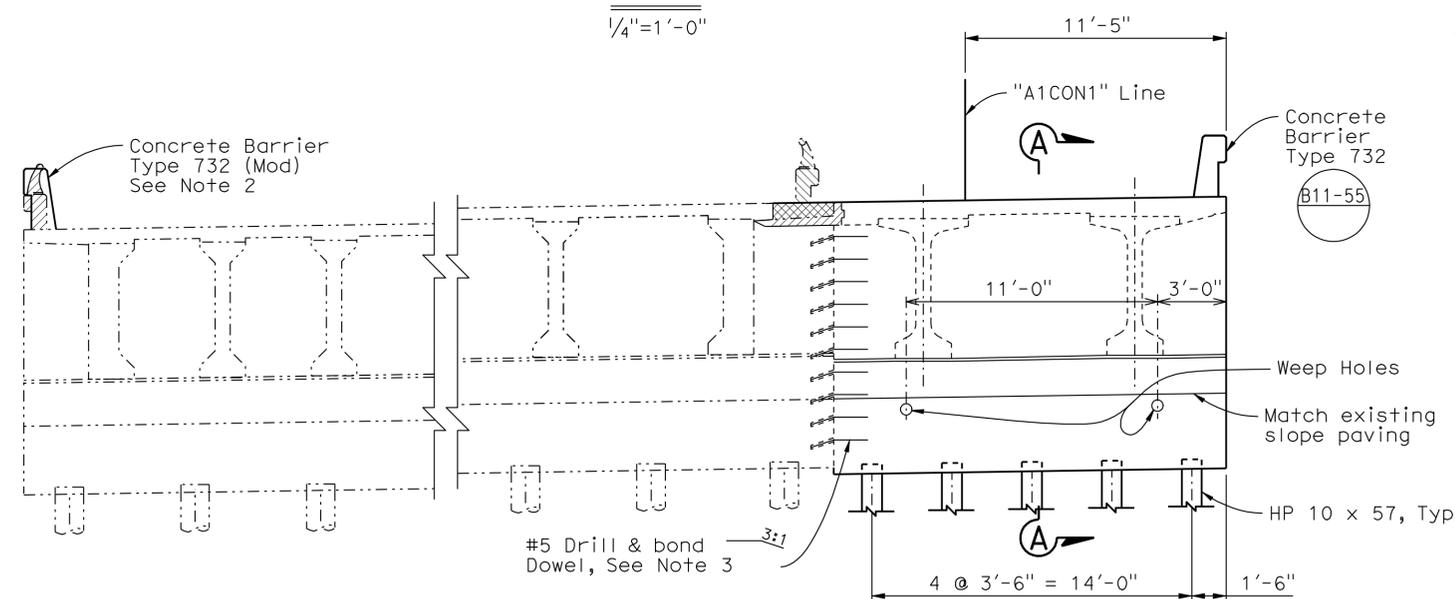
NOTES:

1. For Wingwall Details, see "ABUTMENT DETAILS NO. 1" sheet.
2. For Barrier Details, see "CONCRETE BARRIER TYPE 732 (MOD)" sheet.
3. For Dowel arrangement, see "ABUTMENT DETAILS NO. 2" sheet.
4. For Geocomposite Drain details, see "ABUTMENT DETAILS NO. 2" sheet.



PLAN

1/4" = 1'-0"



ELEVATION

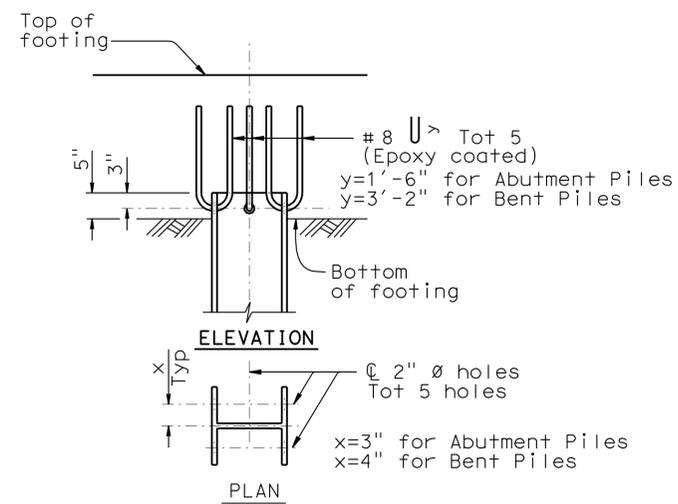
1/4" = 1'-0"

LEGEND

- Indicates New Construction
- - - Indicates Existing Structure
-  Indicates Existing Bridge Removal
-  Indicates Deck Closure Pour
-  Indicates Expanded Polystyrene

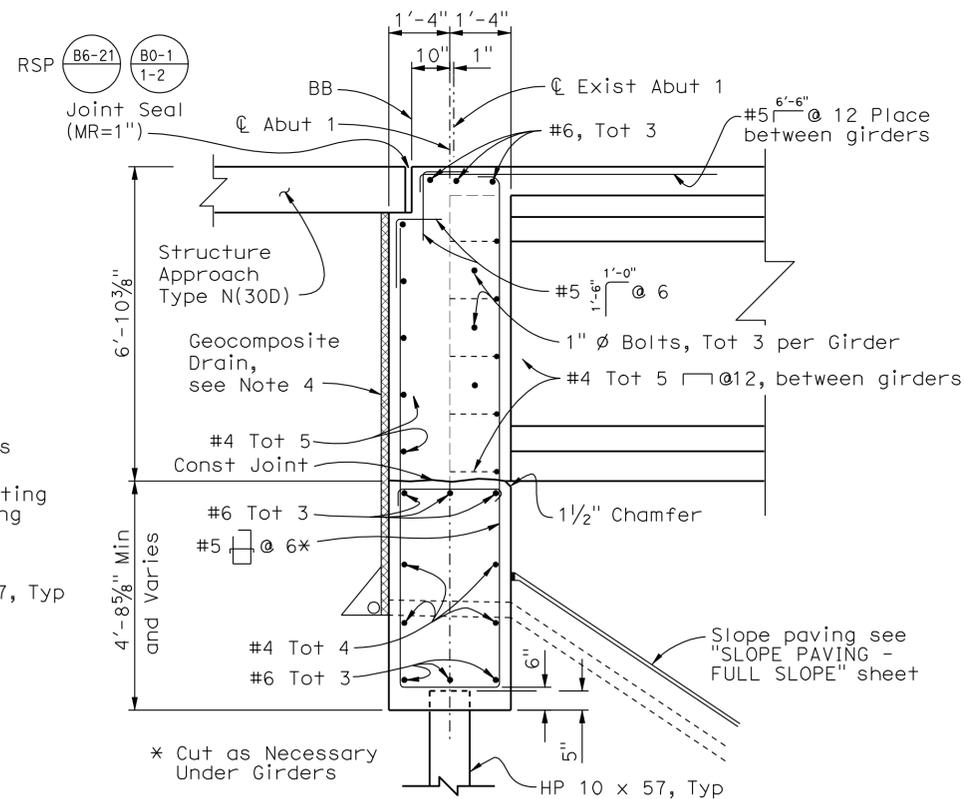
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012



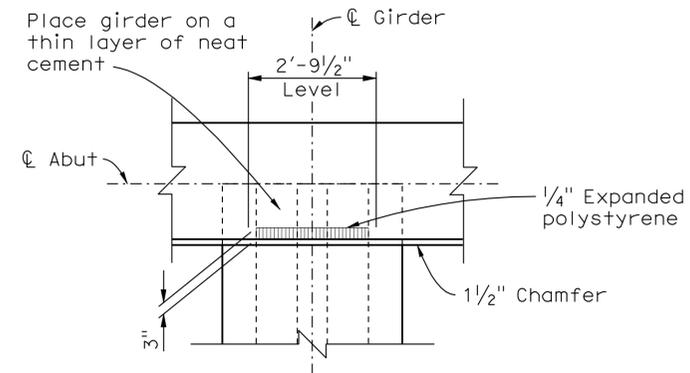
STEEL PILE ANCHOR

NO SCALE



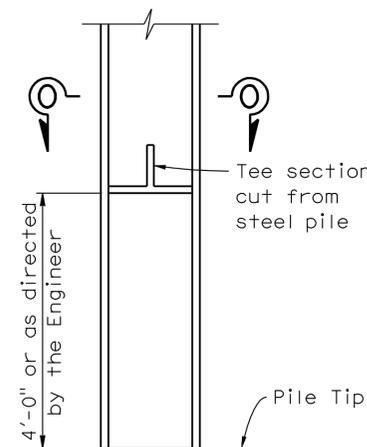
SECTION A-A

1/2" = 1'-0"



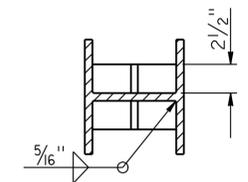
DETAIL A

1/2" = 1'-0"



PILE LUG (At Abutment only)

NO SCALE



SECTION O-O

NO SCALE

DESIGN	BY A. McPhee	CHECKED C. Duan
DETAILS	BY Y. Tang	CHECKED C. Duan
QUANTITIES	BY A. McPhee	CHECKED F. Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.	54-0479R
POST MILE	4.03

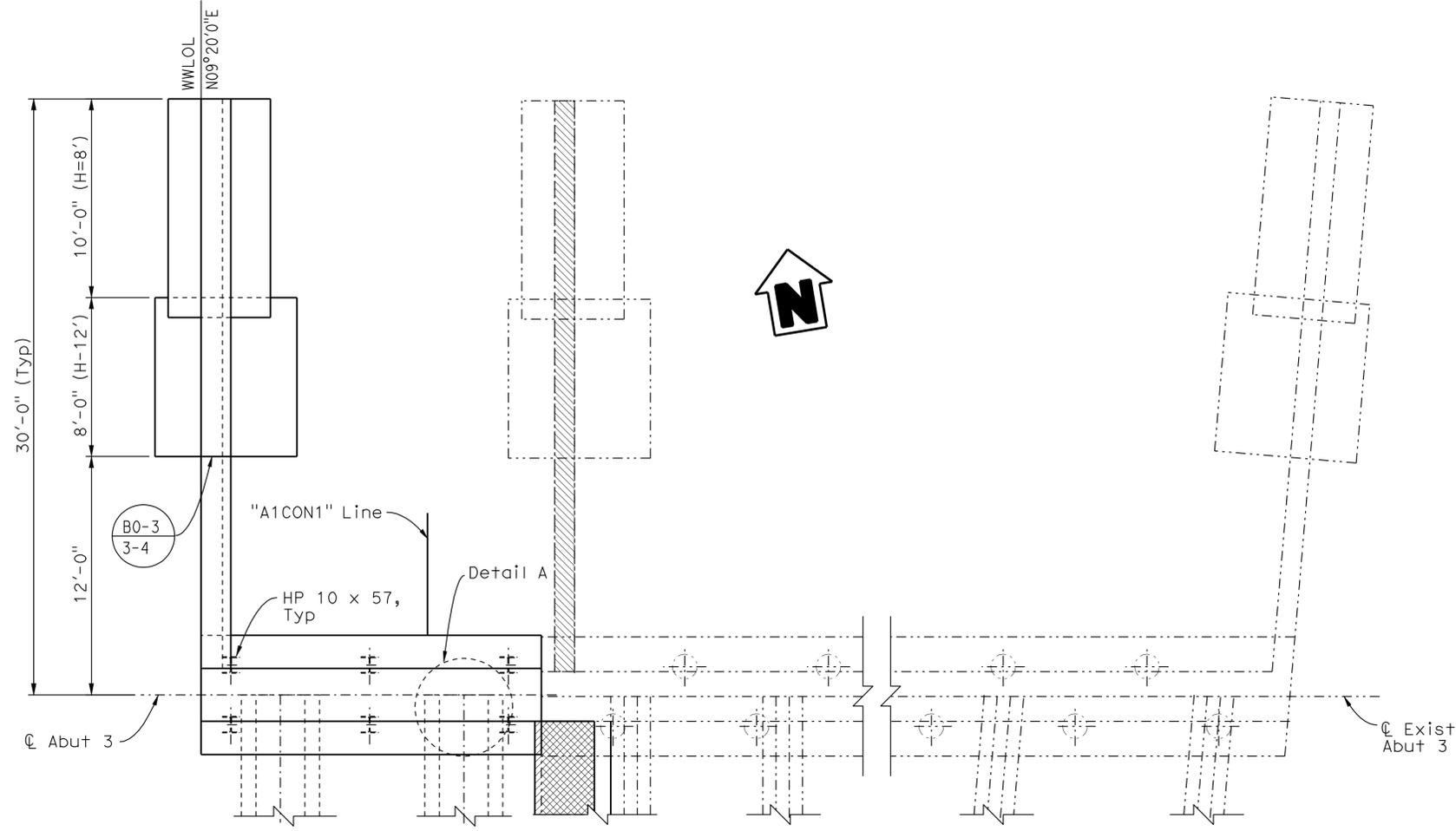
I-215/I-10 SEPARATION RT (WIDEN)

ABUTMENT 1 LAYOUT

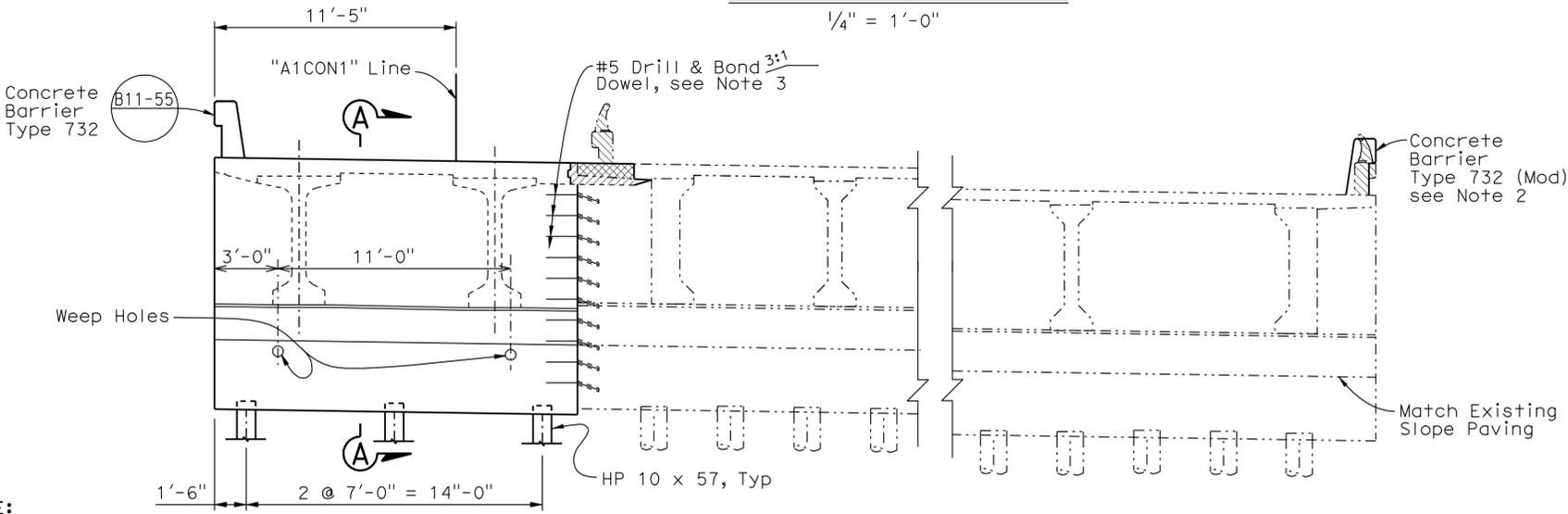
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91, 215	21.5/21.7, 43.2/45.2, 0.0/5.1	1419	1743
			4-06-12		
			DATE		
			4-16-12		
			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

LEGEND

- Indicates New Structure
- - - Indicates Existing Structure
- ▨ Indicates Existing Bridge Removal
- ▩ Indicates Closure Pour



ABUTMENT 3 PLAN
1/4" = 1'-0"

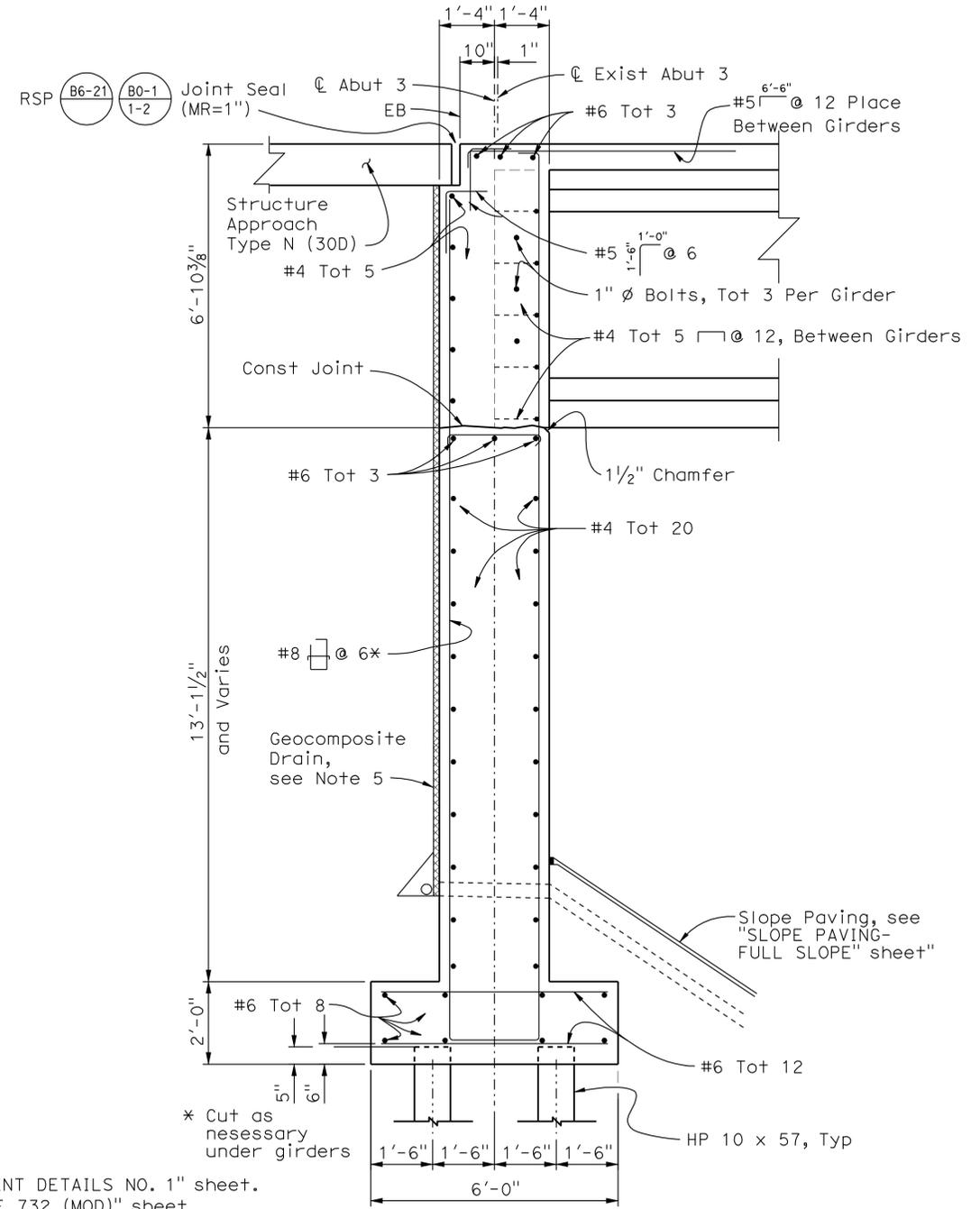


ABUTMENT 3 ELEVATION
1/4" = 1'-0"

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

NOTES:

1. For Wingwall/ Retaining Wall details, see "ABUTMENT DETAILS NO. 1" sheet.
2. For Barrier details, see "CONCRETE BARRIER TYPE 732 (MOD)" sheet.
3. For Drill and Bond Dowel Arrangement, see ABUTMENT DETAILS NO. 2" sheet.
4. For Detail A and Steel Pile Anchor details, see "ABUTMENT 1 LAYOUT" sheet.
5. For Geocomposite Drain details, see "ABUTMENT DETAILS NO. 2" sheet.



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

1 REVISED PER ADDENDUM No. 1
DATED OCTOBER 3, 2012

DESIGN	BY A. McPhee	CHECKED C. Duan
DETAILS	BY Y. Tang	CHECKED C. Duan
QUANTITIES	BY A. McPhee	CHECKED F. Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

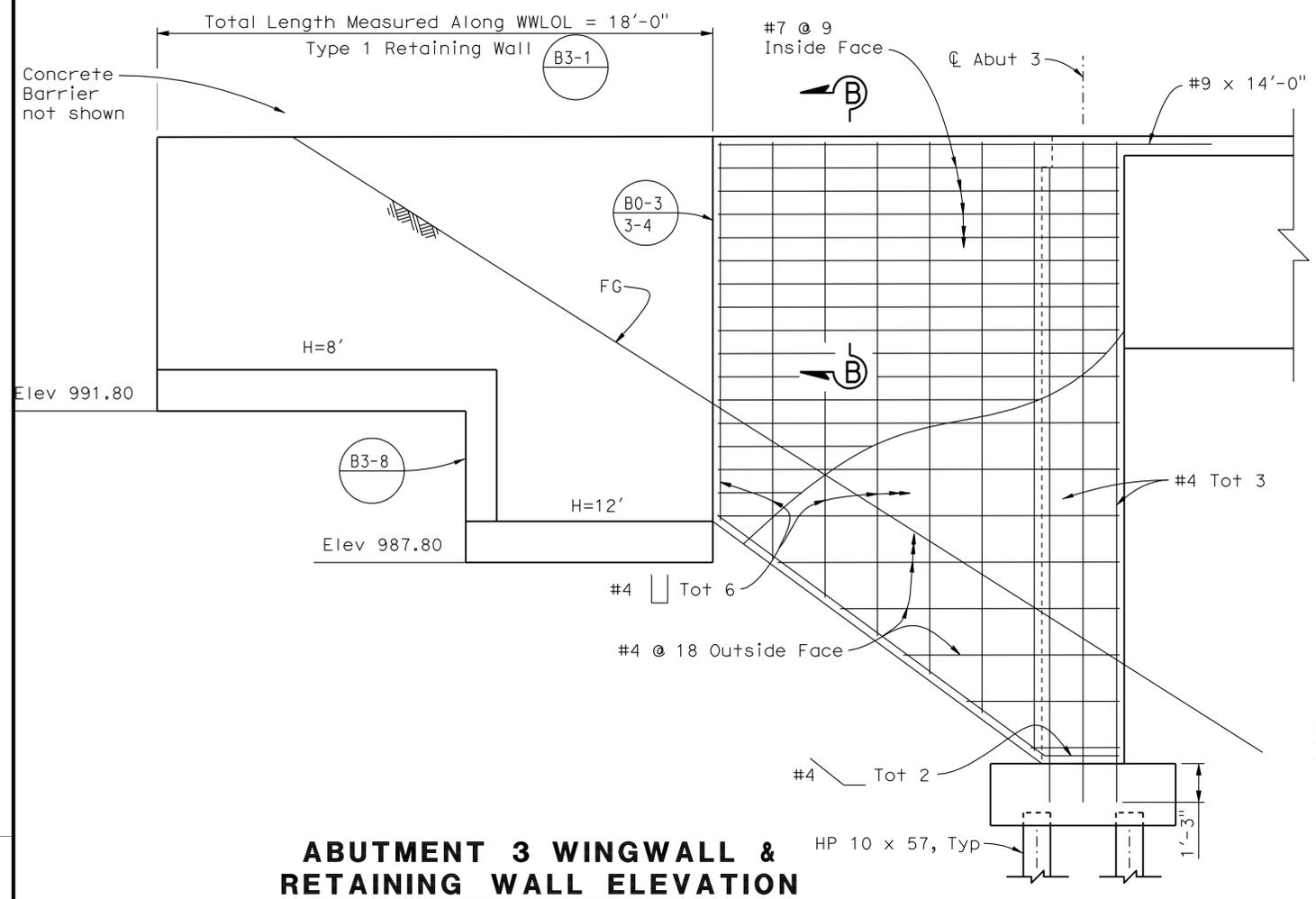
BRIDGE NO.	54-0479R
POST MILE	4.03

I-215/I-10 SEPARATION RT (WIDEN)
ABUTMENT 3 LAYOUT

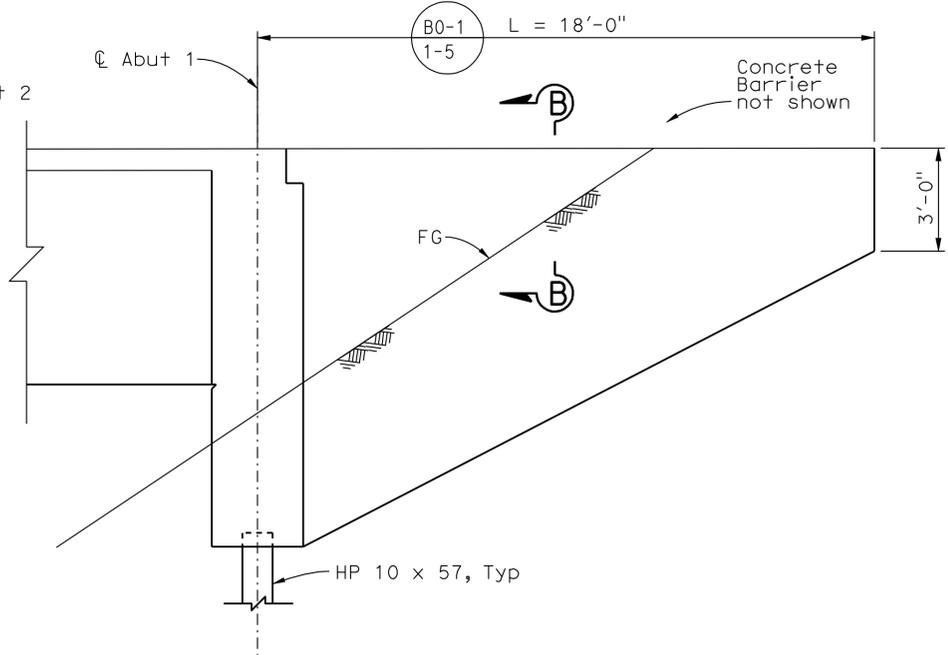
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91, 215	21.5/21.7, 43.2/45.2, 0.0/5.1	1420	1743

REGISTERED CIVIL ENGINEER **LARRY WU** DATE **4-06-12**
 PLANS APPROVAL DATE **4-16-12**
 No. **C57035**
 Exp. **6-30-13**
 CIVIL
 STATE OF CALIFORNIA

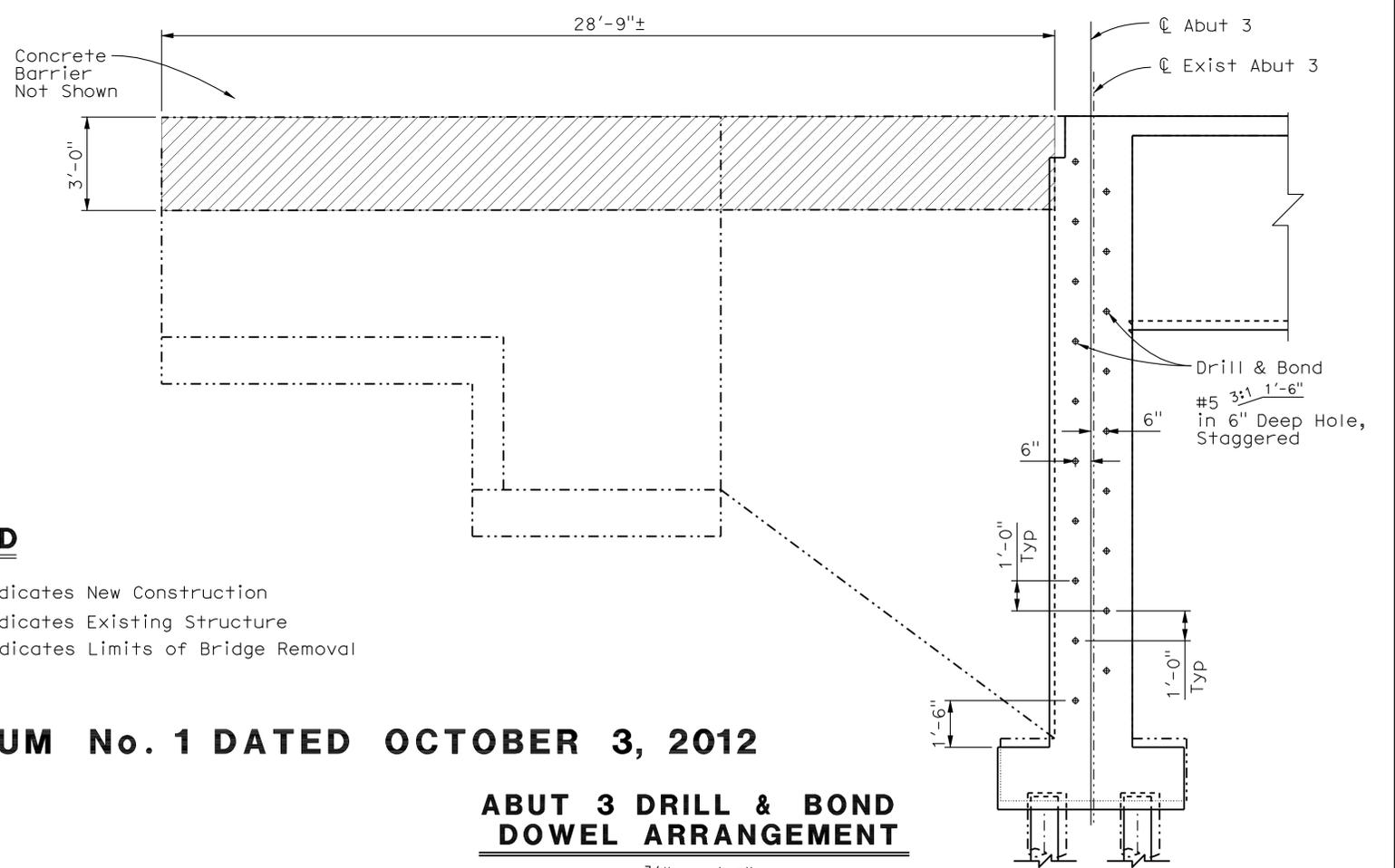
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ABUTMENT 3 WINGWALL & RETAINING WALL ELEVATION
 $\frac{3}{8}'' = 1'-0''$



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



ABUT 1 DRILL & BOND DOWEL ARRANGEMENT
 $\frac{3}{8}'' = 1'-0''$

ABUT 3 DRILL & BOND DOWEL ARRANGEMENT
 $\frac{3}{8}'' = 1'-0''$

LEGEND

- Indicates New Construction
- - - Indicates Existing Structure
- ▨ Indicates Limits of Bridge Removal

1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

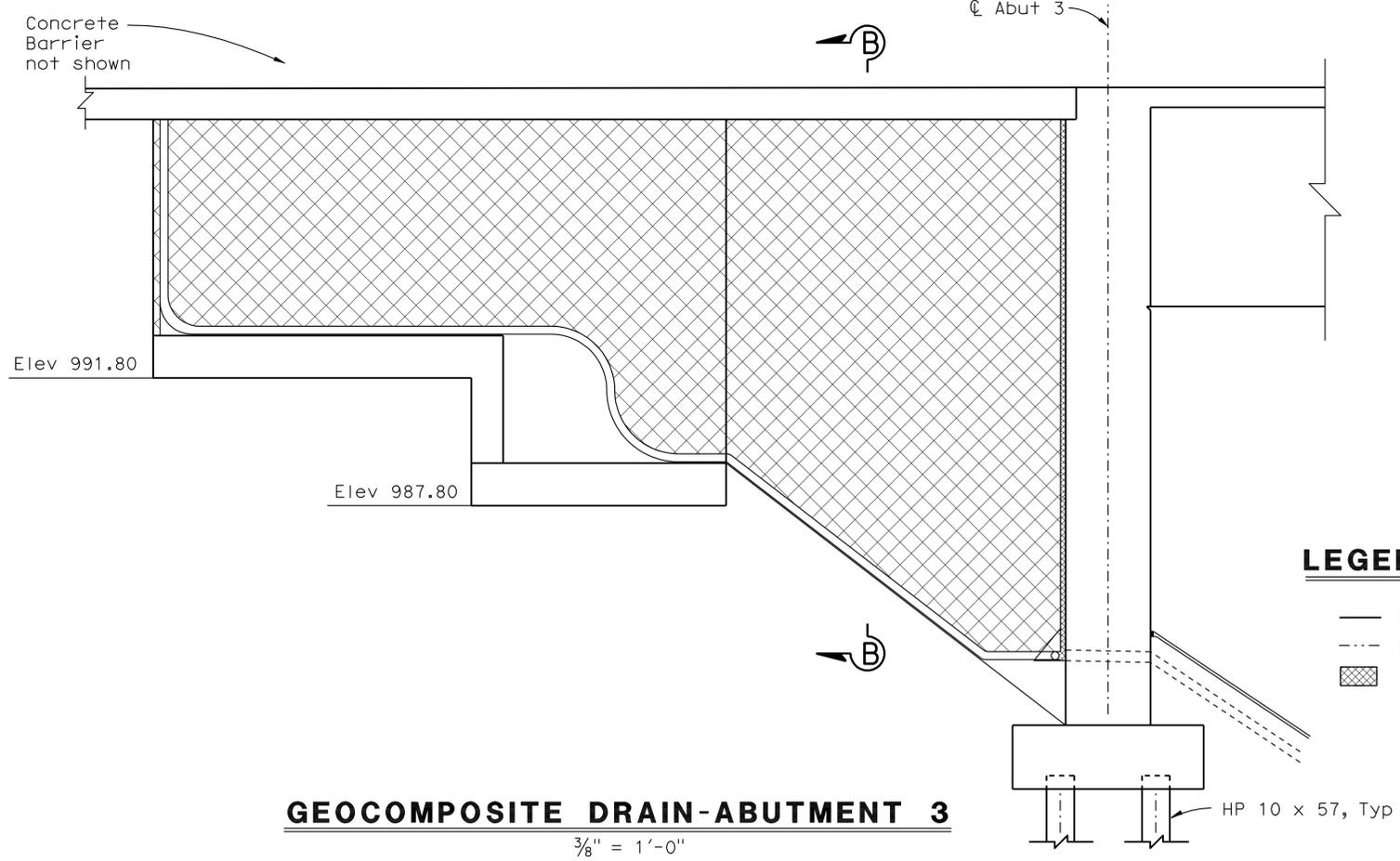
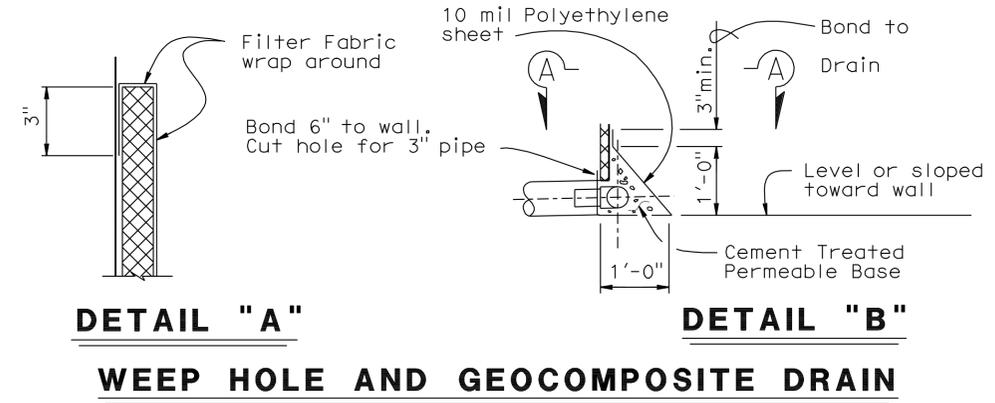
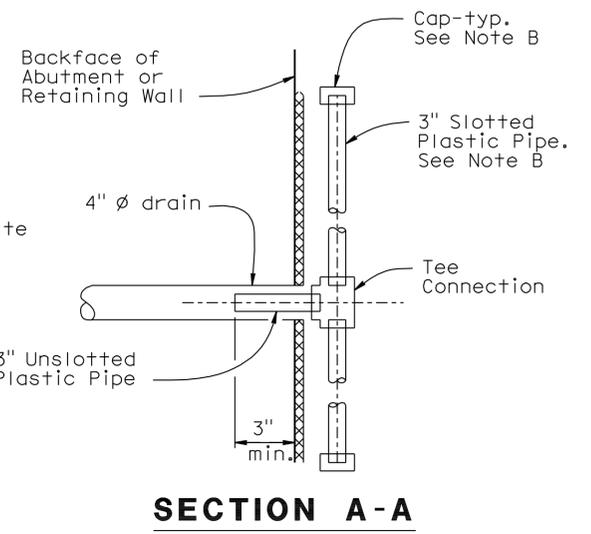
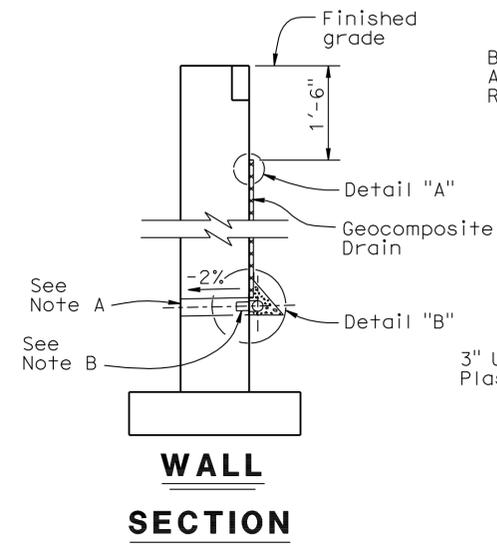
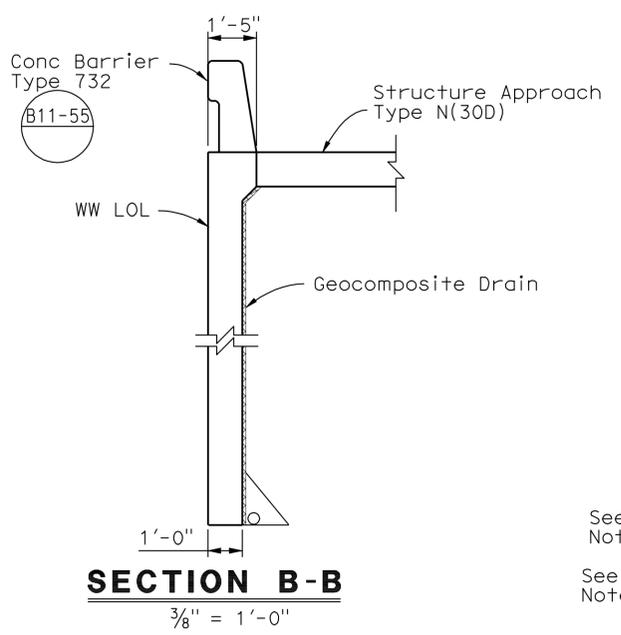
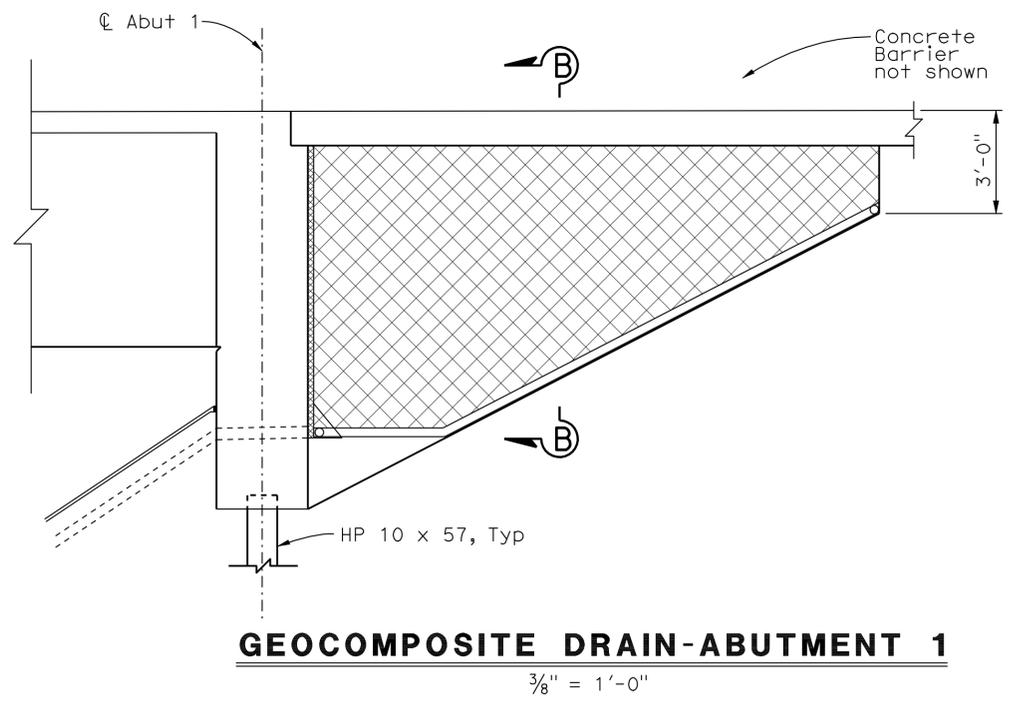
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY A. McPhee	CHECKED C. Duan	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	I-215/I-10 SEPARATION RT (WIDEN) ABUTMENT DETAILS NO. 1			
DETAILS	BY Y. Tang	CHECKED C. Duan			54-0479R				
QUANTITIES	BY A. McPhee	CHECKED F. Chen			POST MILE 4.03				
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3589	PROJECT NUMBER & PHASE: 08000005061	CONTRACT NO.: 08-0M9401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 6 OF 28

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91, 215	21.5/21.7, 43.2/45.2, 0.0/5.1	1421	1743

REGISTERED CIVIL ENGINEER **LARRY WU** DATE **4-06-12**
 PLANS APPROVAL DATE **4-16-12**
 No. **C57035**
 Exp. **6-30-13**
 CIVIL
 STATE OF CALIFORNIA

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LEGEND

- Indicates New Construction
- - - Indicates Existing Structure
- ▨ Indicates Geocomposite Drain

ALTERNATIVE TO BRIDGE DETAIL **BO-3**/**3-1**

NOTES:

- 4" ϕ drains at intermediate sag points and at 25' max center to center. Exposed wall drains shall be located 3" \pm above finished grade.
- Geocomposite drain, cement treated permeable base, and 3" ϕ slotted plastic pipe continuous behind retaining wall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4" ϕ drain.
- Connect the low end of plastic pipe to the main outlet pipe as applicable.

1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

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

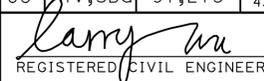
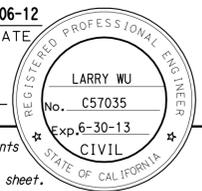
DESIGN	BY	A. McPhee	CHECKED	C. Duan	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	I-215/1/10 SEPARATION RT (WIDEN)
	DETAILS	BY	Y. Tang	CHECKED			C. Duan	54-0479R
QUANTITIES	BY	A. McPhee	CHECKED	F. Chen	PROJECT NUMBER & PHASE: 08000005061	POST MILE	4.03	CONTRACT NO.: 08-0M9401

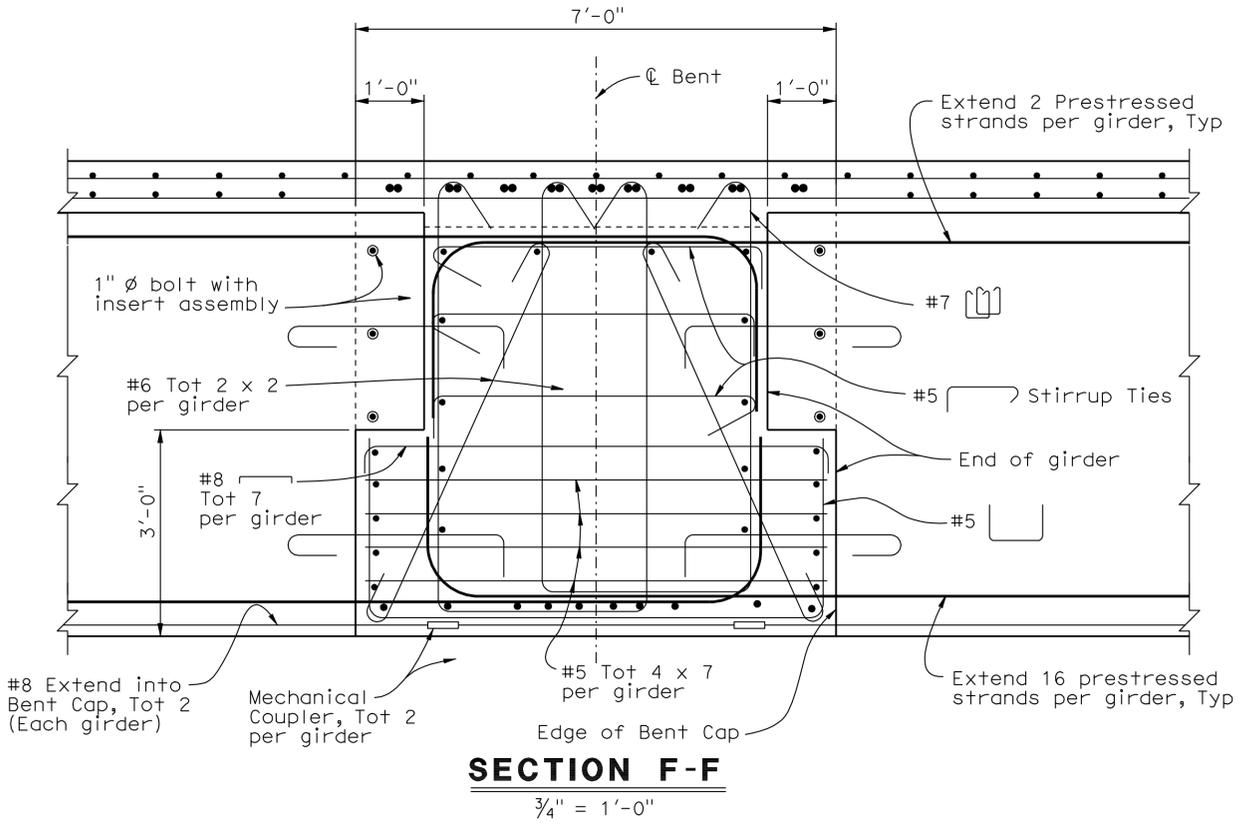
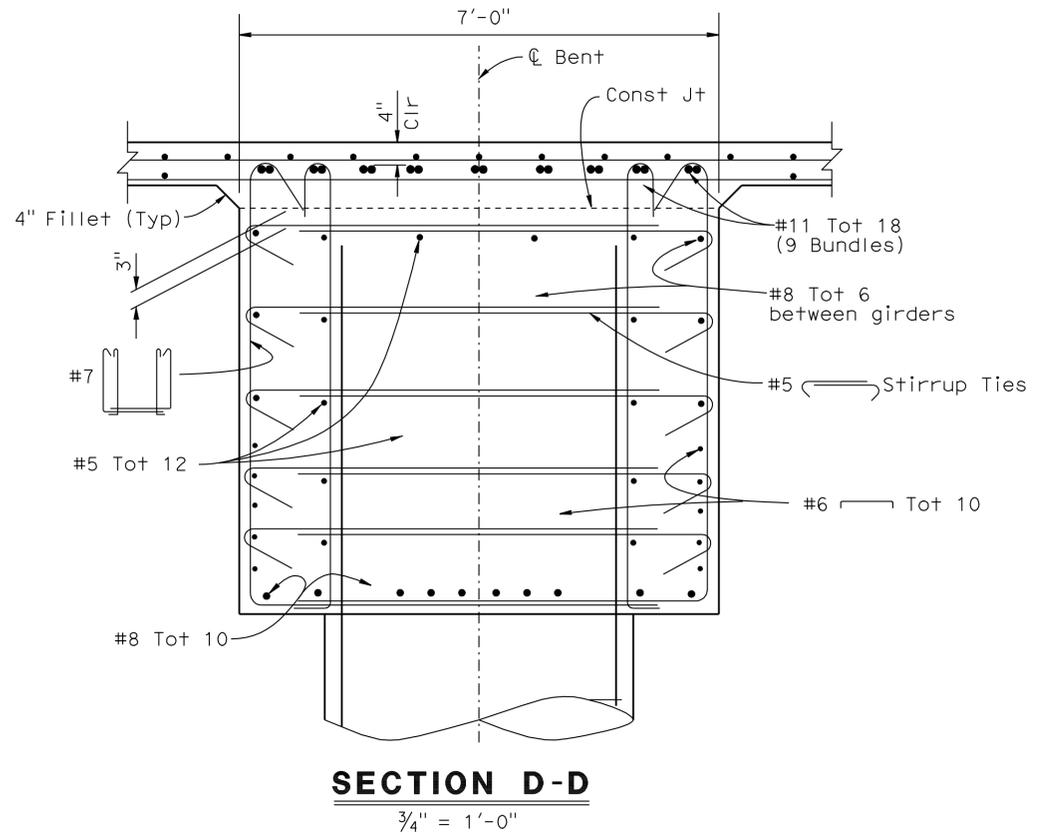
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3589
DISREGARD PRINTS BEARING EARLIER REVISION DATES

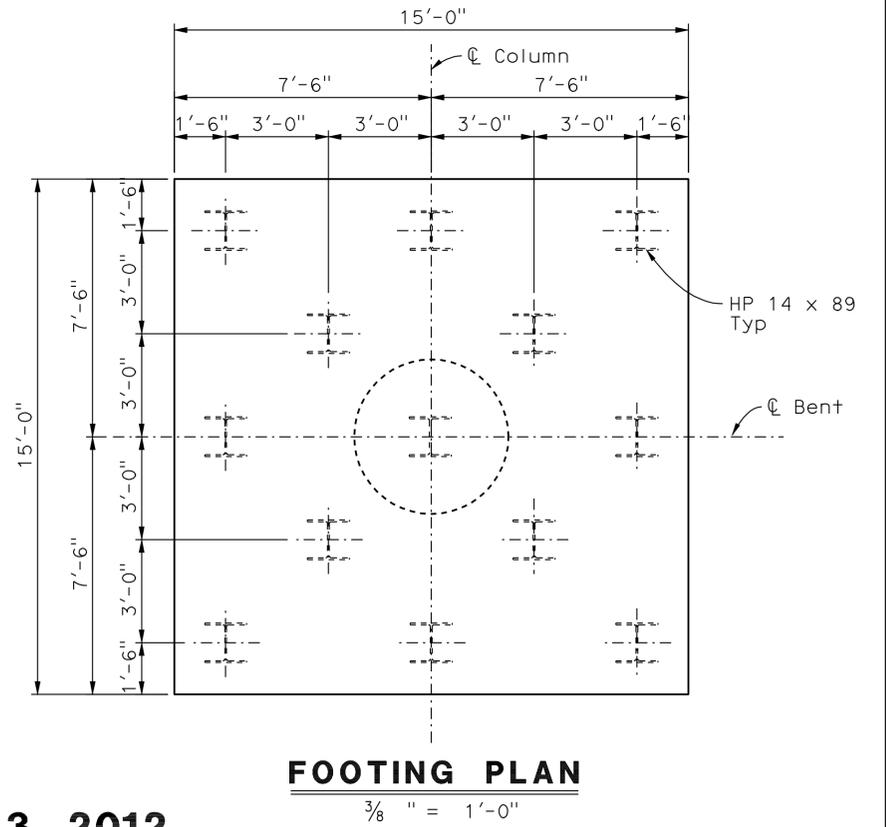
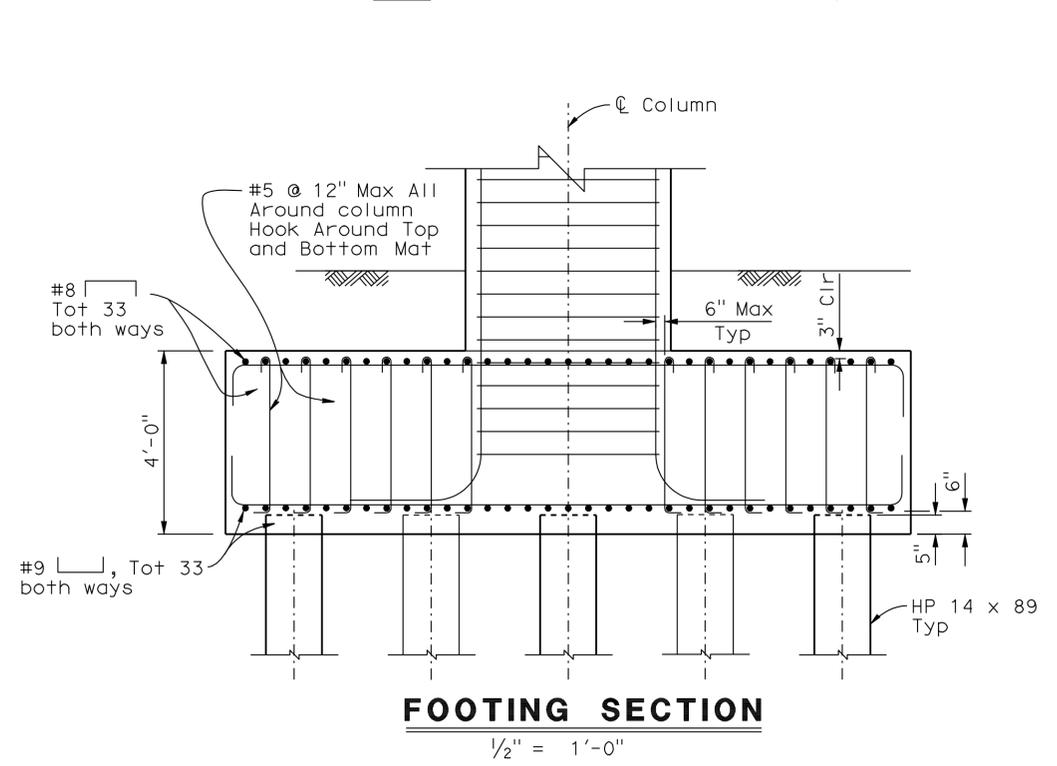
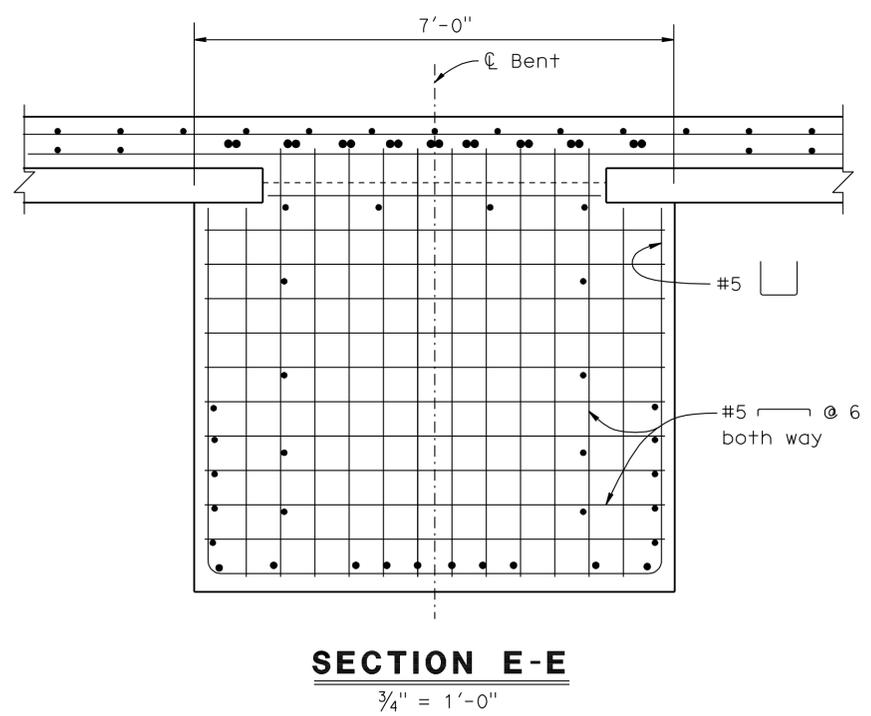
REVISION DATES	SHEET	OF
4-13-11	7	28

FILE => 540479rfdt07.add

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91, 215	21.5/21.7, 43.2/45.2, 0.0/5.1	1423	1743
 REGISTERED CIVIL ENGINEER			4-06-12 DATE		
4-16-12 PLANS APPROVAL DATE					
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NOTE: For details shown but not noted, see "Section D-D".



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

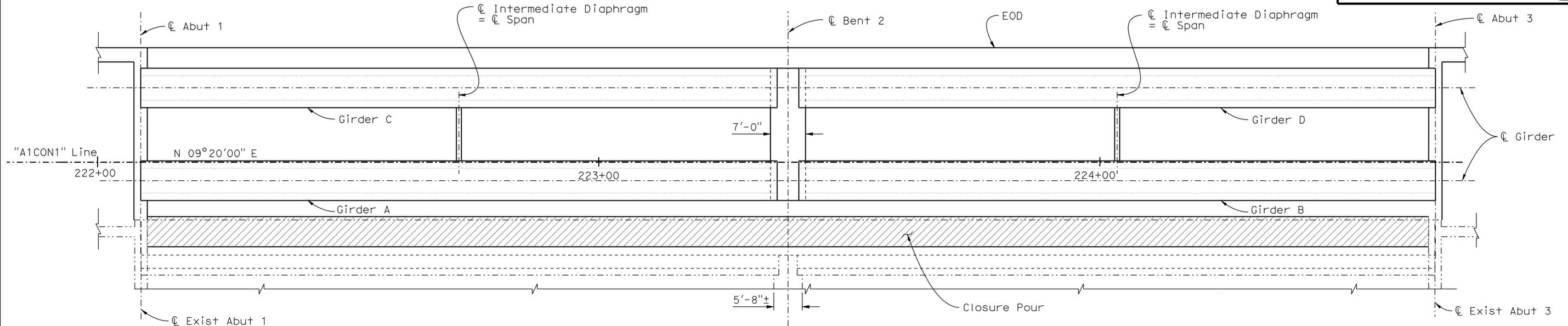
1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY A. McPhee	CHECKED C. Duan	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	I-215/I-10 SEPARATION RT (WIDEN)		
	DETAILS	BY Y. Tang	CHECKED C. Duan			54-0479R			
	QUANTITIES	BY A. McPhee	CHECKED F. Chen			POST MILE 4.03			
UNIT: 3589 PROJECT NUMBER & PHASE: 08000005061						CONTRACT NO.: 08-0M9401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 9 OF 28

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91, 215	21.5/21.7, 43.2/45.2, 0.0/5.1	1427	1743
 REGISTERED CIVIL ENGINEER			4-06-12 DATE		
4-16-12 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>					

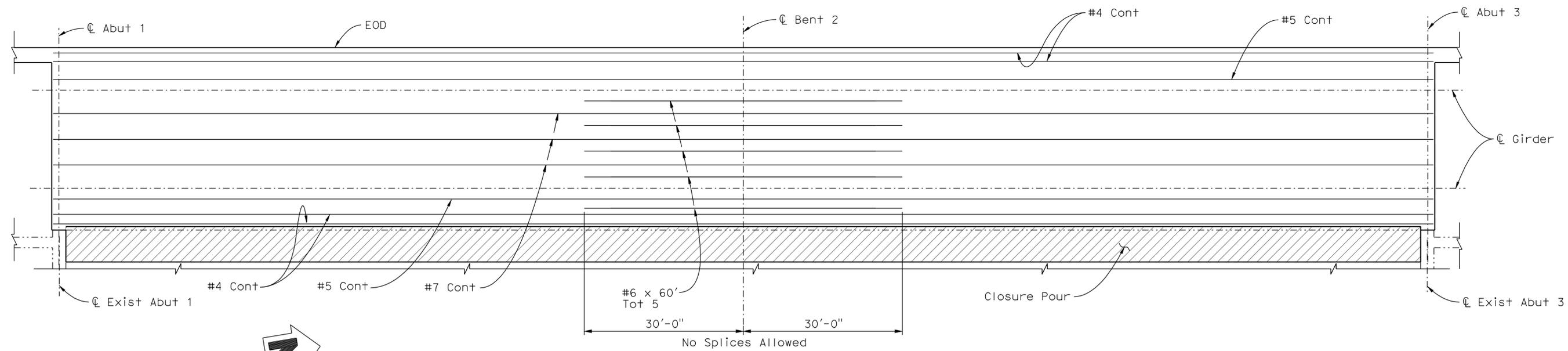
LEGEND

- Indicates New Structure
- - - Indicates Existing Structure
- ▨ Indicates Closure Pour



GIRDER LAYOUT

Horiz 1" = 10'-0"
 Vert 1" = 5'-0"



ADDITIONAL TOP DECK REINFORCEMENT

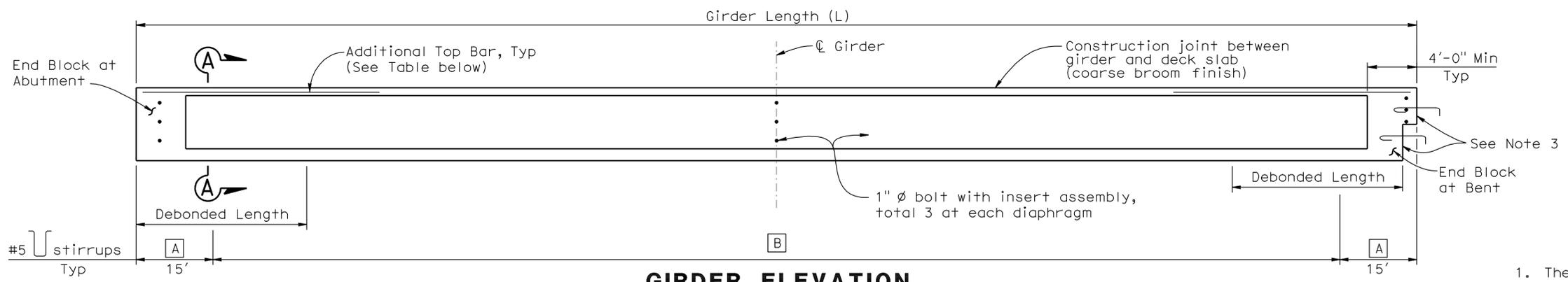
Horiz 1" = 10'-0"
 Vert 1" = 5'-0"

1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

NOTE:
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STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN BY A. McPhee CHECKED C. Duan	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO. 54-0479R	I-215/I-10 SEPARATION RT (WIDEN) GIRDER LAYOUT			
	DETAILS BY Y. Tang CHECKED C. Duan		DESIGN BRANCH 10	POST MILE 4.03				
	QUANTITIES BY A. McPhee CHECKED F. Chen		PROJECT NUMBER & PHASE: 08000005061	CONTRACT NO.: 08-0M9401				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					UNIT: 3589	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 7-28-11 9-26-11 11-24-11 9-21-12	SHEET 13 OF 28

USERNAME => s123631 DATE PLOTTED => 01-OCT-2012 TIME PLOTTED => 08:57



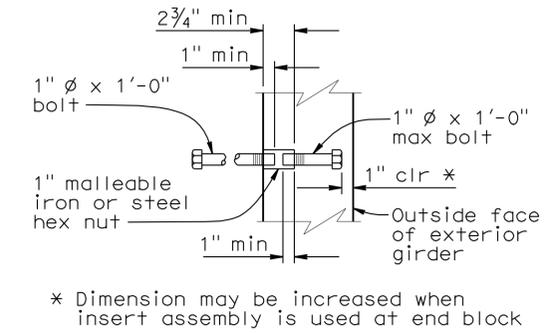
Location	A	B
Girder A, B, C and D	#5 @ 6"	#5 @ 9"

GIRDER ELEVATION

NOTES

- For End Block details, see "PC/PS BULB-TEE GIRDER DETAILS NO.2" sheet.
- Girder ends to be cast such that a level surface is provided at bearing pads.
- Roughen surface by on amplitude of 1/4"

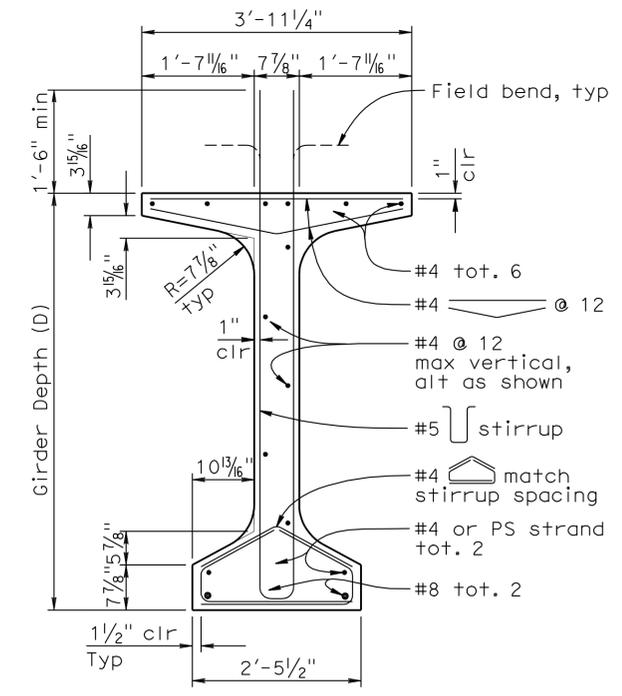
Location	Girder Length (L)	Girder Depth (D)	Number of 0.6" Ø Strands	Jacking Force (P) (44 kips/strand)	Concrete Strength (ksi)		Midspan Dead Load Deflection (in)		Additional Top Bar (each end)
					f'ci	f'c	Deck	Rail	
Girders A, B, C and D	126'-8"	6'-7/8"	36	1584 kips	4.5	6.0	1.45	0.06	#8 x 25' tot. 8



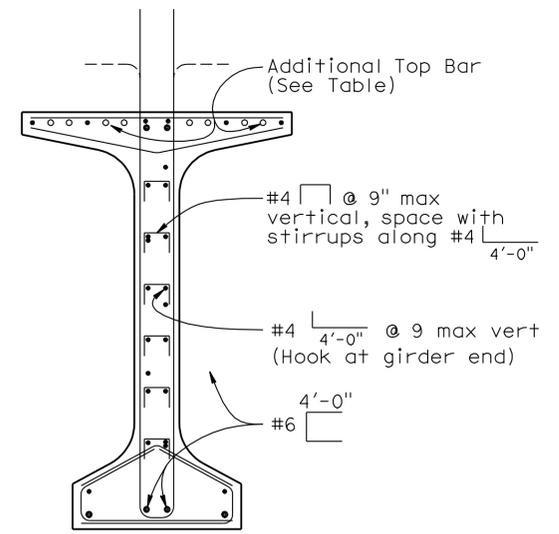
INSERT ASSEMBLY

PRESTRESSING NOTES

- The Jacking Force (P) is the jacking force required at the point of control along the span. The jacking force does not include any fabrication specific losses.
- The maximum tensile stress in the prestressing steel upon release shall not exceed 75 percent of the specified minimum ultimate tensile strength of the prestressing steel.
- The maximum temporary tensile stress (jacking stress) in the prestressing steel shall not exceed 80 percent of the specified minimum ultimate tensile strength of the prestressing steel.
- Concrete strength:
f'ci is at time of initial stressing.
f'c is at 28 days.
- Deflection components are informational and will be used to set screed line elevations.
- Screed line elevations for deck concrete will be determined by the Engineer.
- Prestressing strand shall be 270 ksi low relaxation.

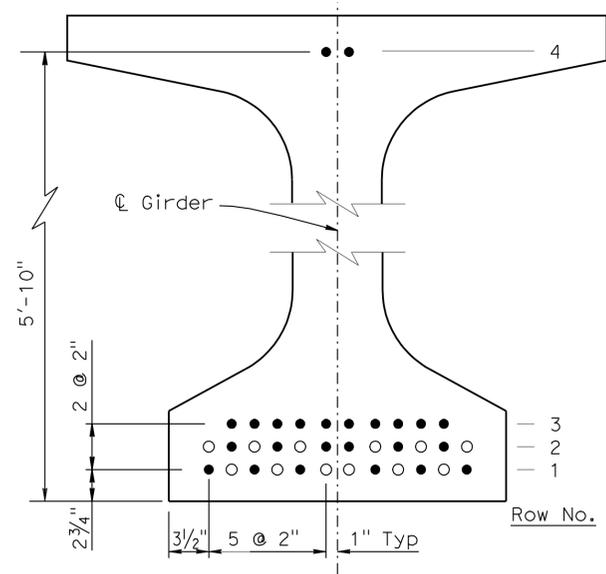


TYPICAL GIRDER SECTION



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

SECTION A-A



STRAND TEMPLATE & DEBONDING PATTERN

Girders A, B, C and D			
Row No.	Total No. of Strands	No. of Debonded Strands	Debonded Length
4	2	0	0
3	10	0	0
2	12	6	5'
1	12	6	2 x 20' 2 x 15' 2 x 10'

- Denotes continuously bonded strand location
- Denotes allowable debonded strand location

PRESTRESS STRAND NOTES

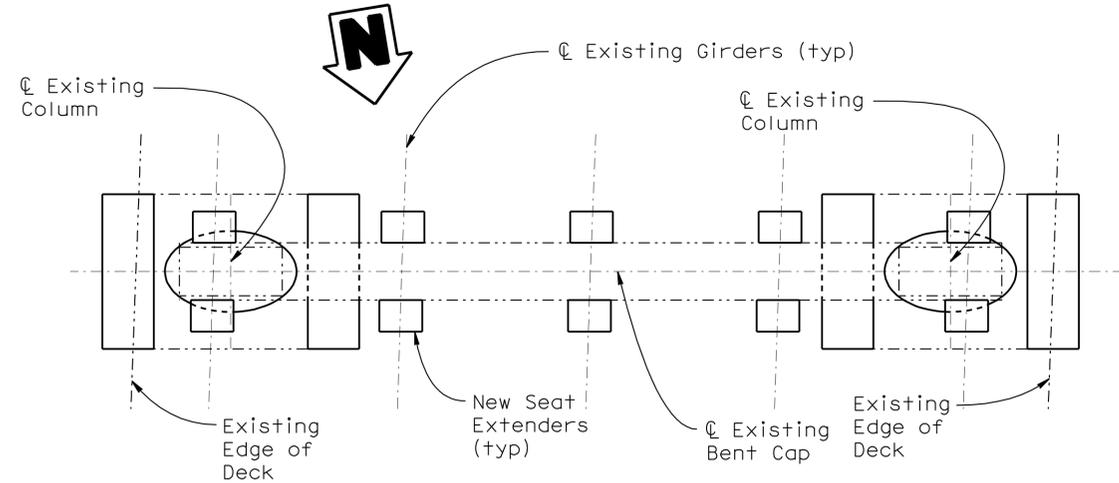
- Strands shall be placed as low as possible in the strand template and symmetrical about the centerline of the girder.
- No more than 33% of the total number of strands or 50% of the strands per horizontal row may be debonded.
- Strand locations may be adjusted as approved by the Engineer.

Note: For "Welded Wire Reinforcement (WWR) Alternative", see "PC/PS BULB-TEE GIRDER DETAILS NO. 2" sheet.

1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

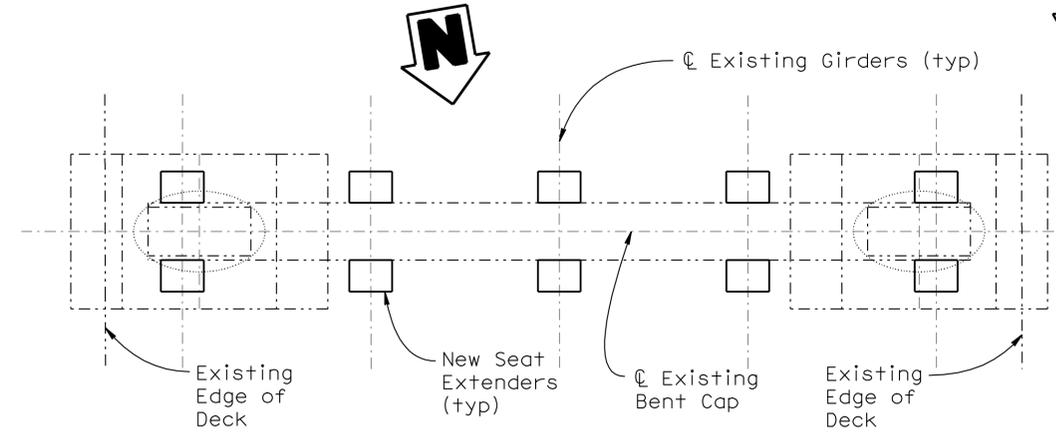
NO SCALE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	91, 215	21.5/21.7, 43.2/45.2, 0.0/5.1	1533	1743
 REGISTERED CIVIL ENGINEER DATE 4-06-12					
4-16-12 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>					



PLAN - BENT 2 (RETROFIT)

3/16" = 1'-0"

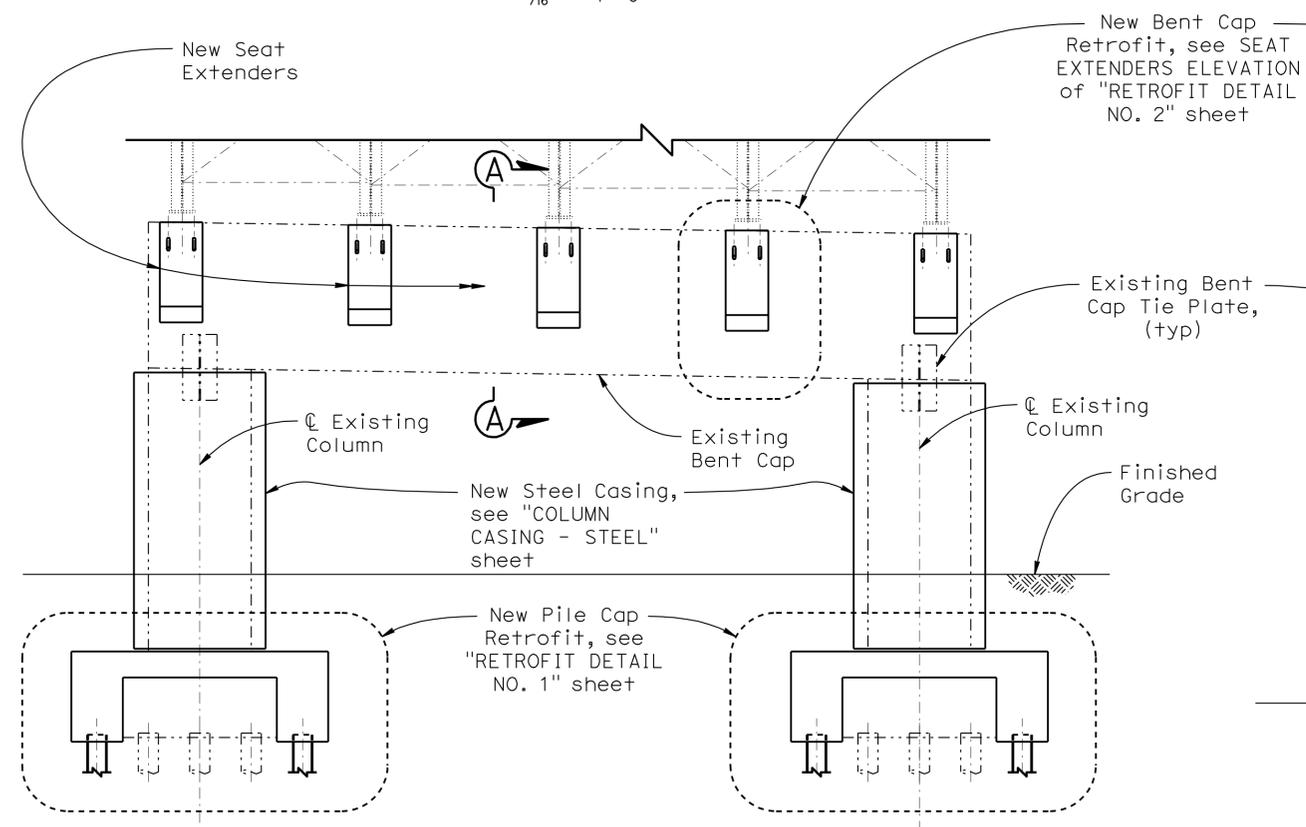


PLAN - BENT 6 (RETROFIT)

3/16" = 1'-0"

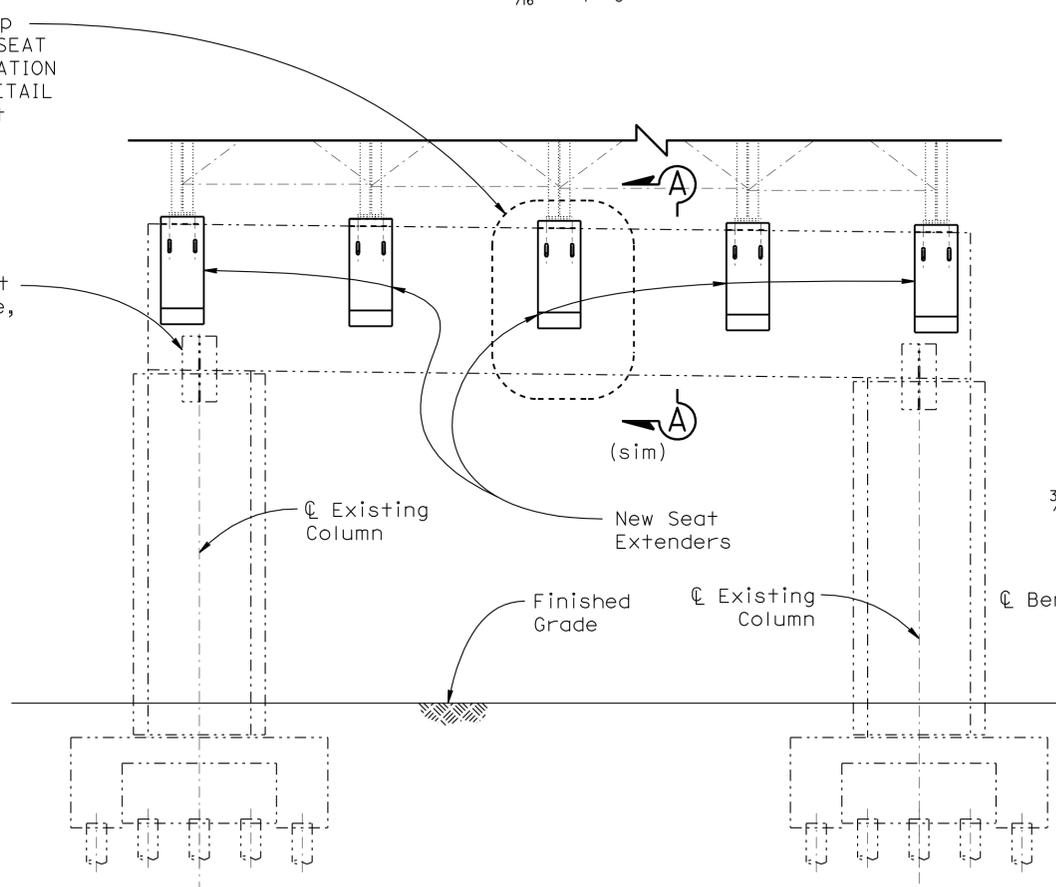
- LEGEND:**
- Indicates new construction
 - - - Indicates existing structure

- NOTES:**
- For New Pile Cap Footing, see "RETROFIT DETAILS NO. 1" sheet
 - For new Steel Casing, see "COLUMN CASING - STEEL" sheet.
 - For SECTION A-A, see "RETROFIT DETAILS NO. 2" sheet.
 - New bridge widening not shown for clarity.



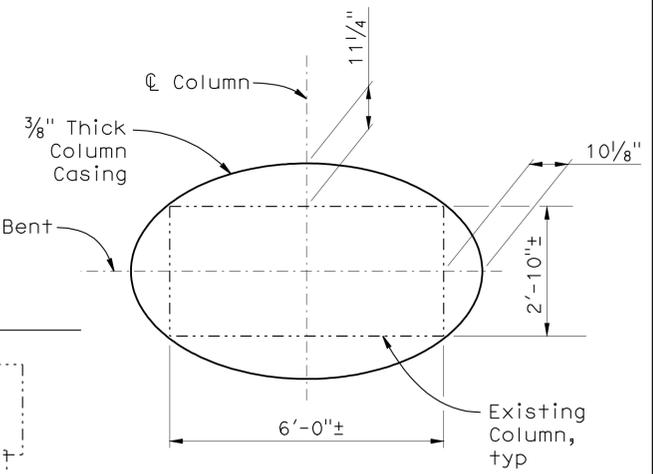
ELEVATION - BENT 2 (RETROFIT)

3/16" = 1'-0"



ELEVATION - BENT 6 (RETROFIT)

3/16" = 1'-0"



COLUMN CASING DETAIL

1/2" = 1'-0"

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

1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY J. Szabo	CHECKED R. Stiltz	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	54-0482R	COLTON-LOMA LINDA OH RT (WIDEN) RETROFIT LAYOUT NO. 1
	DETAILS	BY J. Szabo	CHECKED D. Wooten			POST MILE	3.72	
	QUANTITIES	BY J. Szabo	CHECKED R. Stiltz			UNIT: 3589 PROJECT NUMBER & PHASE: 0800000506	CONTRACT NO.: 08-0M9401	

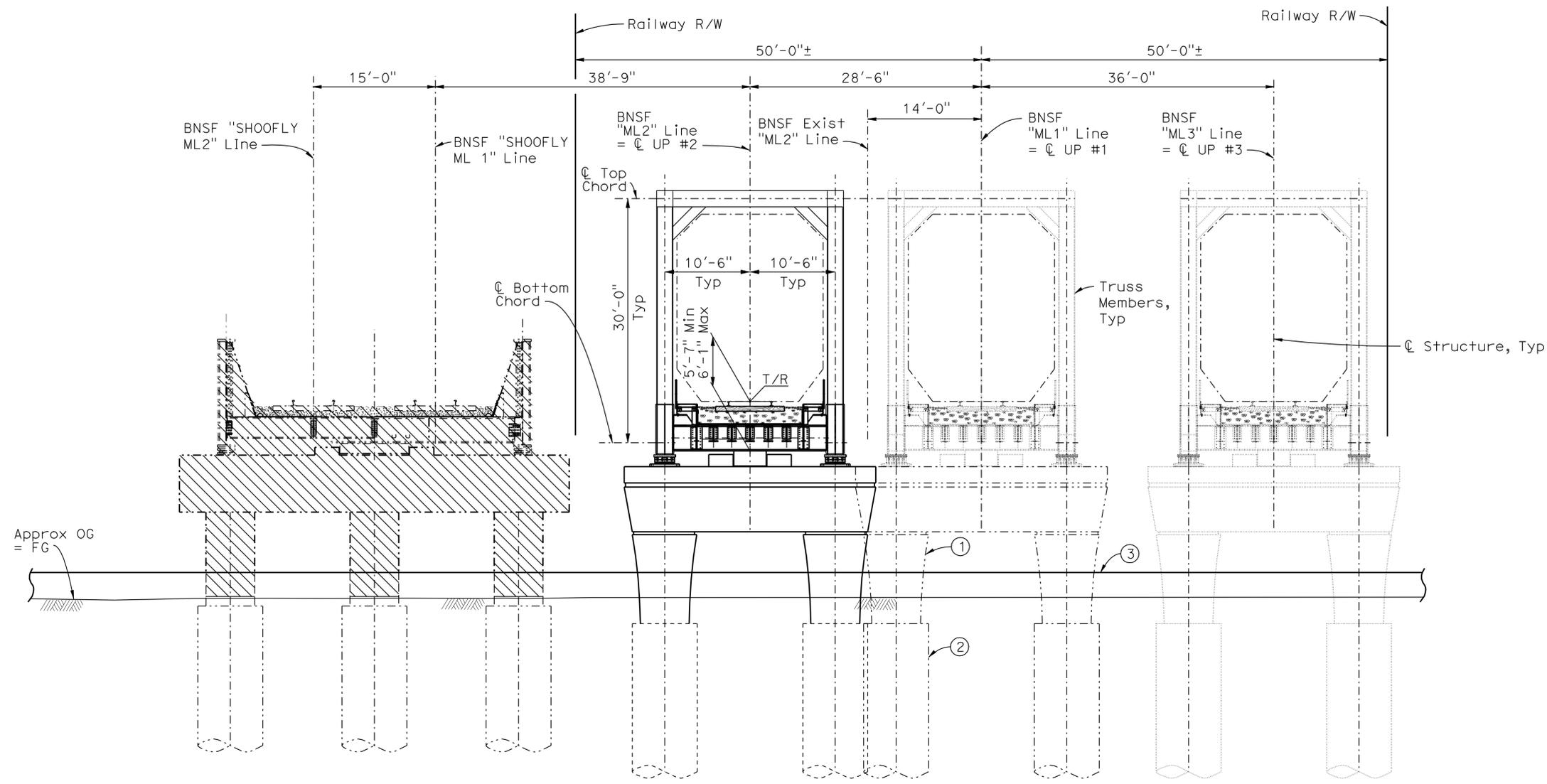
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3589
PROJECT NUMBER & PHASE: 0800000506

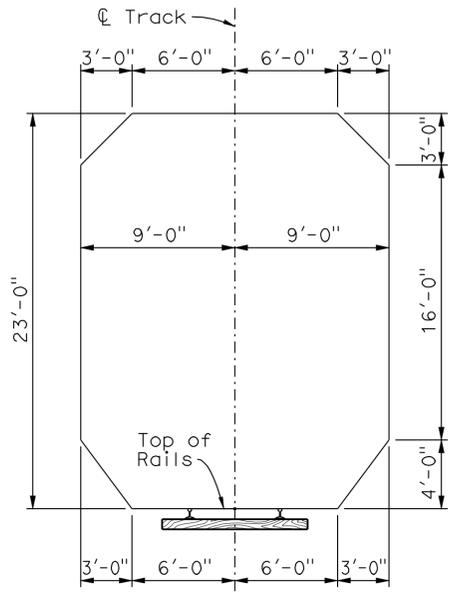
CONTRACT NO.: 08-0M9401

DISREGARD PRINTS BEARING EARLIER REVISION DATES

TIME PLOTTED => 01-OCT-2012 08:57 USERNAME => s123631 DATE PLOTTED =>



1



MINIMUM RAILWAY BRIDGE CLEARANCES
 $\frac{3}{16}'' = 1'-0''$

TYPICAL SECTION

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

QUANTITIES

PILE DATA TABLE

Location	Pile Type	Design Loading (WSD) (kips)		Nominal Resistance (kips)		Cut-off Elevations (ft)	Design Tip Elevation (ft)	Specified Tip Elevation (ft)
		Compression	Tension	Compression	Tension			
Abut 1	24" CIDH	200	0	200	0	924.0	894.0 (a)	894.0
Bent 2	96" CICH	2400	0	2400	0	915.0	822.0 (a)	822.0
Abut 3	24" CIDH	200	0	200	0	924.9	887.0 (a)	887.0

NOTE: Design tip elevations are controlled by the following demands: (a) Compression

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

1 REVISED PER ADDENDUM No. 1 DATED OCTOBER 3, 2012

BRIDGE REMOVAL, LOCATION C	LUMP SUM	
BRIDGE REMOVAL, LOCATION E	LUMP SUM	
STRUCTURE EXCAVATION (BRIDGE)		625 CY
STRUCTURE BACKFILL (BRIDGE)		271 CY
PERVIOUS BACKFILL MATERIAL		21 CY
24" CAST-IN-DRILLED-HOLE CONCRETE PILING		1,222 LF
96" CAST-IN-DRILLED-HOLE CONCRETE PILING		186 LF
STRUCTURAL CONCRETE, BRIDGE FOOTING		100 CY
STRUCTURAL CONCRETE, BRIDGE BEARING		8 EA
BAR REINFORCING STEEL (BRIDGE)		270,738 LB
WATERPROOFING AND COVER		6,859 SQFT
FURNISH STRUCTURAL STEEL (BRIDGE)		2,060,397 LB
ERECT STRUCTURAL STEEL (BRIDGE)		2,060,397 LB
CLEAN AND PAINT STRUCTURAL STEEL	LUMP SUM	
MISCELLANEOUS METAL (BRIDGE)		27,955 LB
BRIDGE DECK DRAINAGE SYSTEM		2,722 LB
PIPE HANDRAILING		812 LF

LEGEND:

- Indicates new construction
- Indicates existing structure
- ▨ Indicates bridge removal after construction of Replacement Bridges

NOTES:

- ① 6'-0" Dia Column
- ② 8'-0" Dia CIDH Shaft
- ③ Concrete Barrier Type 60E, see "Roadway Plans"

ABBREVIATIONS:

- BNSF Burlington Northern and Santa Fe Railway (Bridge Owner)
- UP Underpass
- R/W Right of Way
- T/R Top of Rail