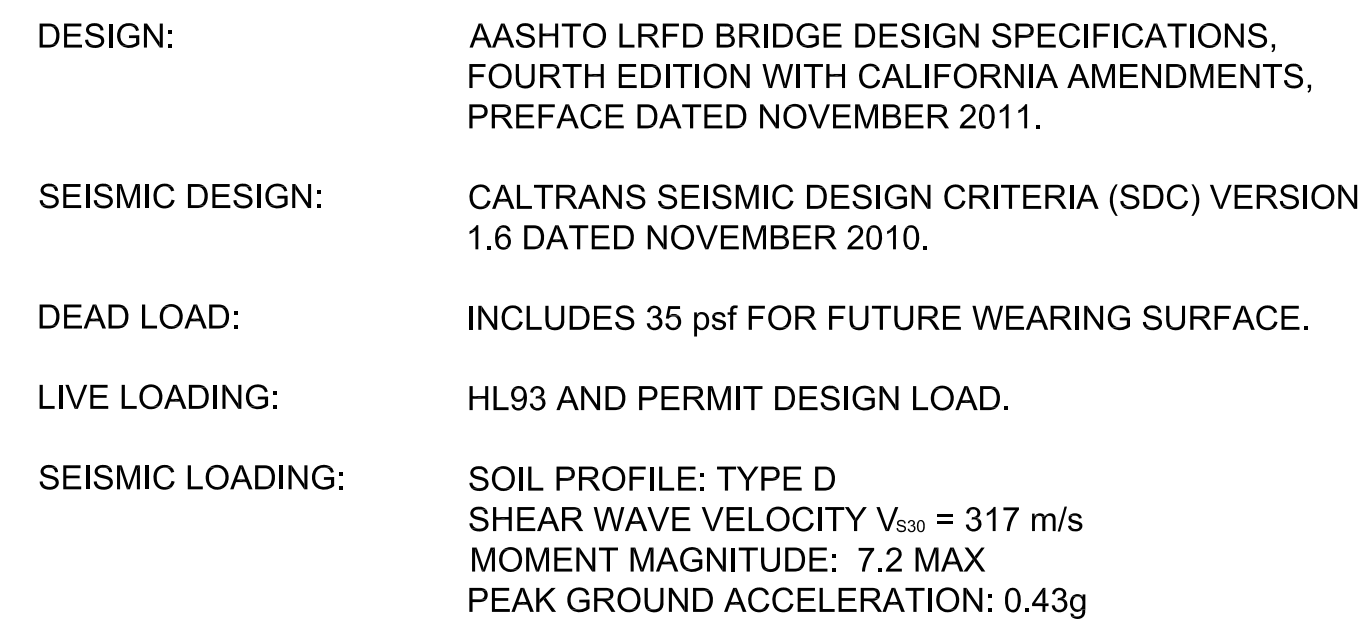
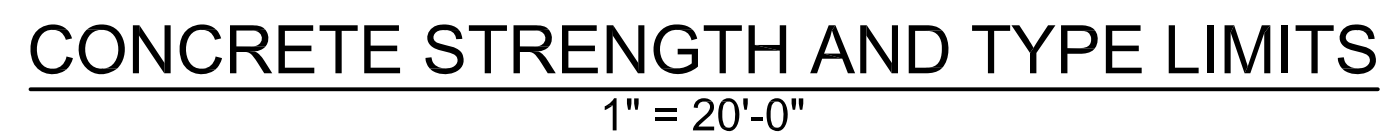
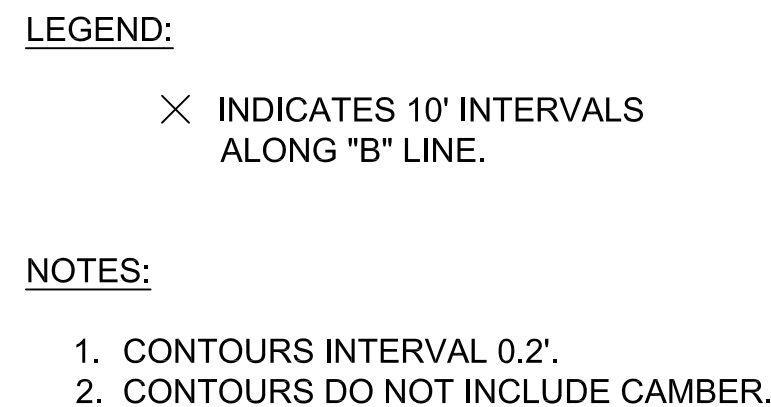
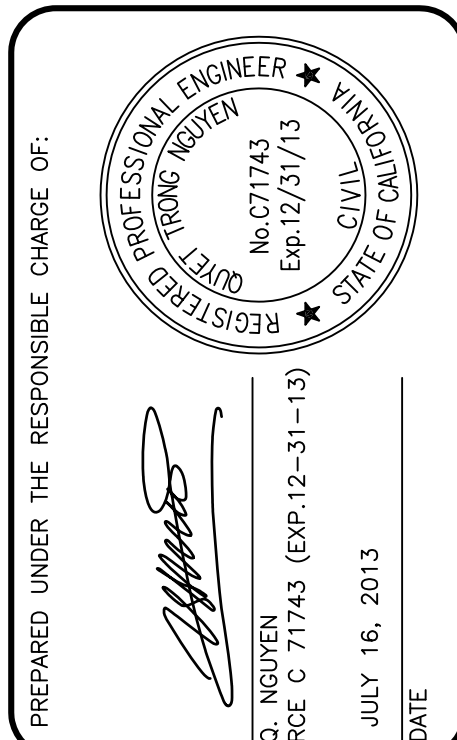
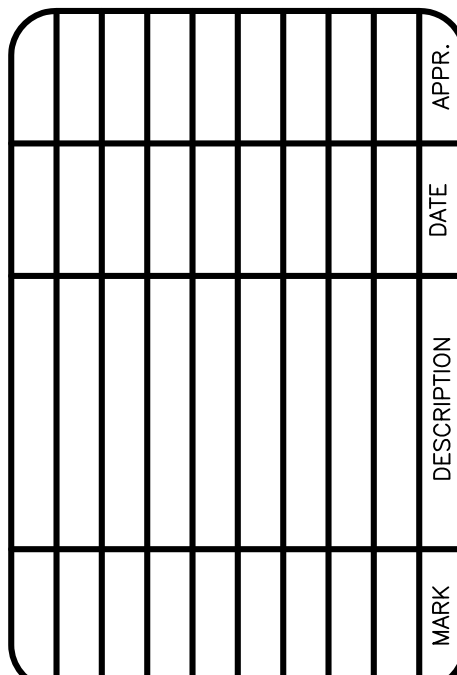


<u>PLAN NO.</u>	<u>TITLE</u>
A10A	ABBREVIATIONS (SHEET 1 OF 2)
A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B2-3	16" AND 24" CAST-IN-DRILLED-HOLE CONCRETE PILE
RSP B3-1A	RETAINING WALL TYPE 1 (CASE 1)
RSP B3-5	RETAINING WALL DETAILS NO. 1
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
B7-1	BOX GIRDER DETAILS
B7-10	UTILITY OPENING - BOX GIRDER
B7-11	UTILITY DETAILS
B8-5	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS
B11-51	TUBULAR HAND RAILING
B11-52	CHAIN LINK RAILING TYPE 7
B11-56	CONCRETE BARRIER TYPE 736
B14-3	COMMUNICATION AND SPRINKLER CONTROL CONDUITS (CONDUIT LESS THAN SIZE 4")

NOTE: FOR CALTRANS STANDARD PLANS, SEE SHEET S1-19 TO S1-24.

SECTION IDENTIFICATION



COUNTY OF ORANGE OC PUBLIC WORKS	DESIGNED BY:	
	ON	
	DRAWN BY:	CHECKED BY:
	NL	GR
	DRAWING CODE:	
 10370 HENET STREET, Suite 230 RIVERSIDE, CA 92503 Tel: (951) 687-1005	JOB NO.	
	11017	
	PLOT DATE:	SCALE:
	11/06/2017	AS SHOWN

LA PATA AVENUE GAP CLOSURE
BRIDGE NO. 1

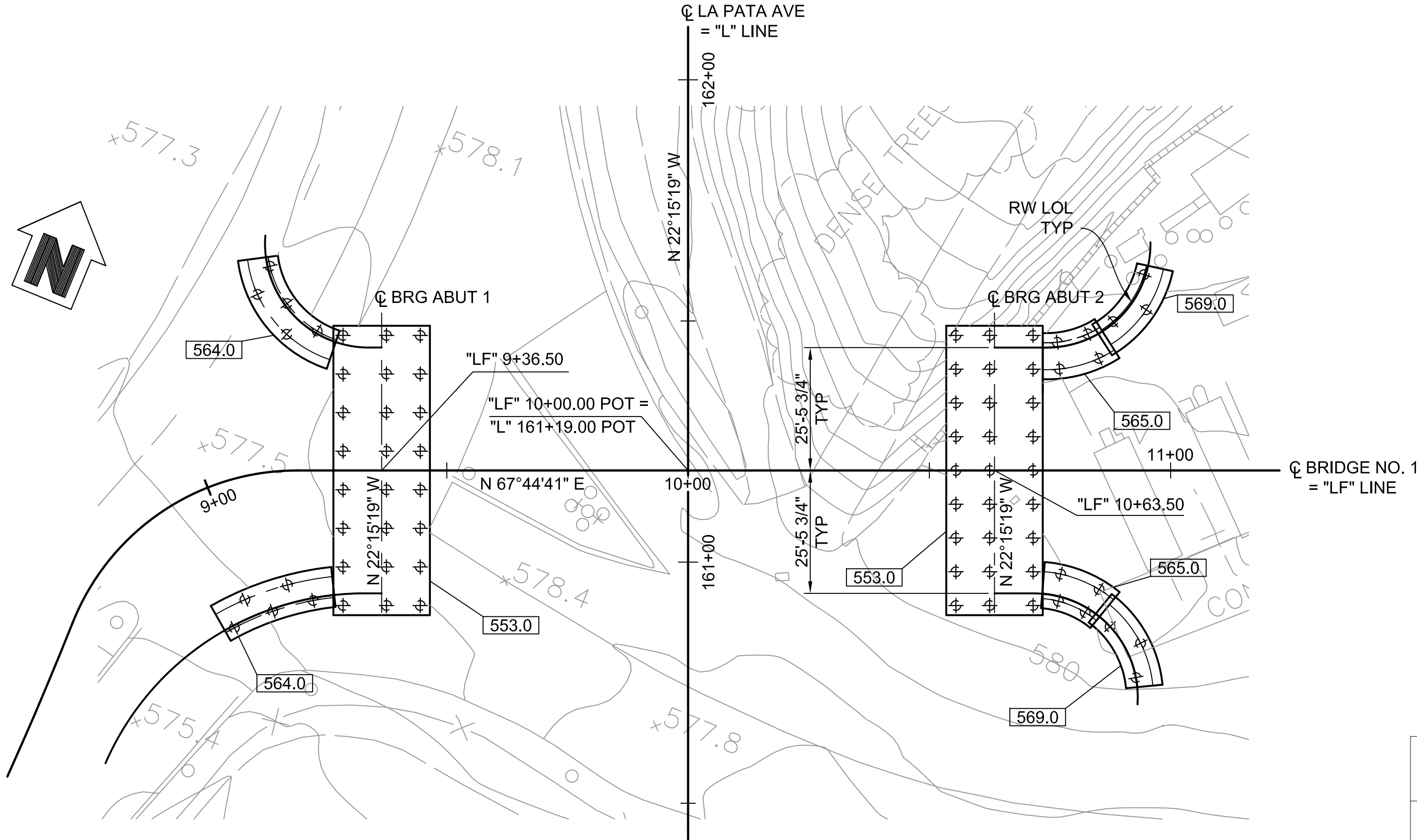
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Sheet
Reference
Number

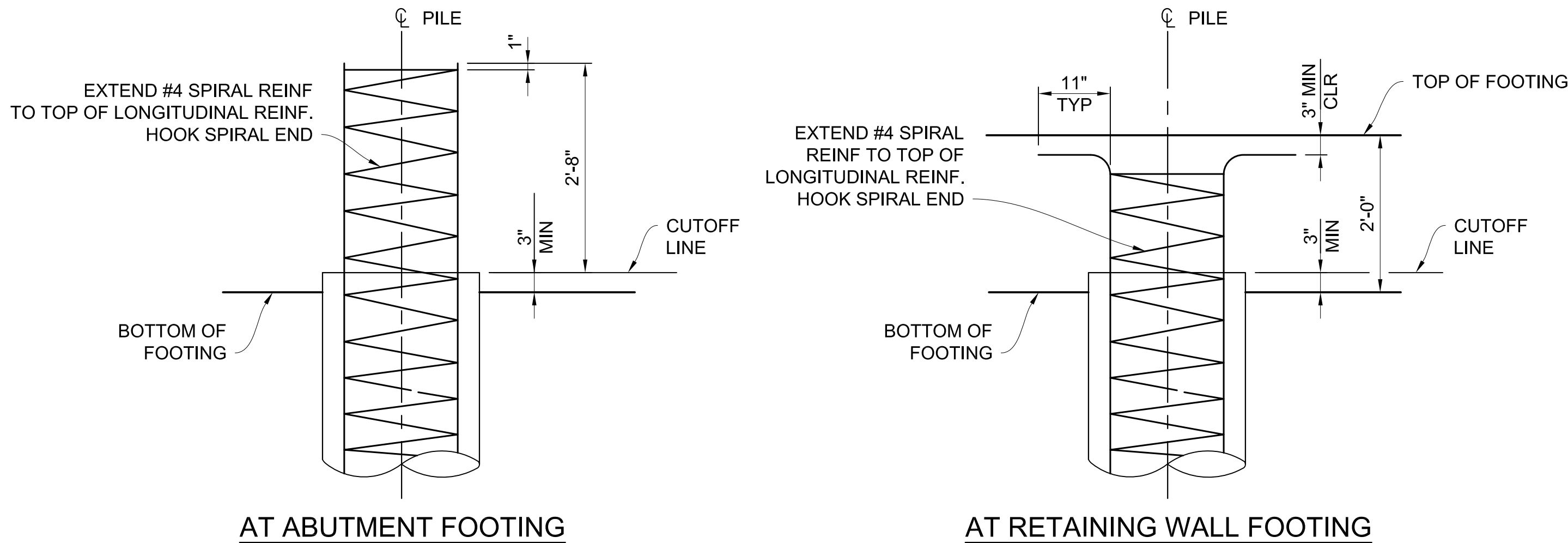
S1-2

222 OF 492

AS-BUILT
RE/SR: K. TRAN
Date: 01/21/2017



PLAN
1" = 20'



NOTE: FOR INFORMATION NOT SHOWN, SEE **B2-3** ON SHEET S1-21.

PILE HEAD DETAIL - 24" CIDH CONC PILE
3/4" = 1'-0"

LEGEND:

XXX.X INDICATES BOTTOM OF FOOTING ELEVATION.

NOTE: FOR RW LOL CURVE DATA, SEE SHEETS S1-6 & S1-7.

BENCHMARK:

OCS BENCHMARK "AP-02-99"; DESCRIBED BY OCS 2003 - FOUND 3 3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "AP-02-99" SET IN THE NORTHEASTERLY CORNER OF A CONCRETE BRIDGE DECK. MONUMENT IS LOCATED IN THE NORTHEASTERLY CORNER OF ANTONIO PARKWAY AND ITS OVERCROSSING OF SAN JUAN CREEK, 1 FT. SOUTHERLY OF THE NORTHERLY EDGE OF THE BRIDGE DECK AND 1 FT. WESTERLY OF THE EASTERLY GUARD RAIL MONUMENT IS SET LEVEL WITH THE BRIDGE DECK. O.C.S. 1995 ADJUSTMENT, LEVELED 2004. ELEVATION: 235.793 NGVD29
OCS BENCHMARK "3Y-38-91"; DESCRIBED BY OCS 2003 - FOUND 3 3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "3Y-38-91", SET IN THE NORTHWESTERLY CORNER OF A 4 FT. BY 17 FT. CONCRETE CATCH BASIN. MONUMENT IS LOCATED IN THE SOUTHEASTERLY CORNER OF THE INTERSECTION OF AVENIDA PICO AND AVENIDA LA PATA, 50 FT. SOUTHERLY OF THE CENTERLINE OF AVENIDA LA PATA AND 90 FT. EASTERLY OF AVENIDA PICO. MONUMENT IS SET LEVEL WITH THE TOP OF THE CURB. O.C.S. 1995 ADJUSTMENT, LEVELED 2005. ELEVATION: 249.897 NGVD29

PILE DATA TABLE

LOCATION	PILE TYPE	NOMINAL RESISTANCE (kips)		DESIGN TIP ELEVATION (ft)	SPECIFIED TIP ELEVATION (ft)
		COMPRESSION	TENSION		
ABUT 1	24" CIDH	400	N/A	512 (a)	512
ABUT 2	24" CIDH	370	N/A	513 (a)	513
ABUT 1 RETAINING WALLS H = 12'	24" CIDH	280	90	531 (a) 537 (c)	531
ABUT 2 RETAINING WALLS H = 10'	24" CIDH	260	120	537 (a) 540 (c)	537
ABUT 2 RETAINING WALLS H = 14'	24" CIDH	260	70	530 (a) 536 (c)	530

NOTES:

- DESIGN TIP ELEVATION IS CONTROLLED BY: (a) COMPRESSION, (c) SETTLEMENT.
- THE CIDH SPECIFIED TIP ELEVATION SHALL NOT BE RAISED.

QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	2,590 CY
STRUCTURE BACKFILL (BRIDGE)	1,470 CY
24" CAST-IN-DRILLED-HOLE CONCRETE PILING	2,885 LF
PRESTRESSING CAST-IN-PLACE CONCRETE	1 LS
STRUCTURAL CONCRETE (BRIDGE FOOTING)	430 CY
STRUCTURAL CONCRETE (BRIDGE)	875 CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	40 CY
FRACTURED FIN TEXTURE	1,540 SF
JOINT SEAL (MR= 1")	102 LF
BAR REINFORCING STEEL (BRIDGE)	327,160 LB
MISCELLANEOUS METALS (BRIDGE)	1,810 LB
CONCRETE BARRIER (TYPE 736 MODIFIED)	402 LF
TUBULAR HANDRAILING	145 LF
CHAIN LINK RAILING	257 LF

AS-BUILT
RE/SR: K. TRAN
Date: 01/21/2017



MARK	DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

Q. NGUYEN
RCE C 71743 (EXP-12-31-15)
JULY 16, 2013
DATE

DESIGNED BY: QN
DRAWN BY: NL
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DRAWING CODE:
JOB NO. 11017
PLOT DATE: 11/06/2017
SCALE: AS SHOWN

COUNTY OF ORANGE
OC PUBLIC WORKS

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Tel: (951) 687-1005

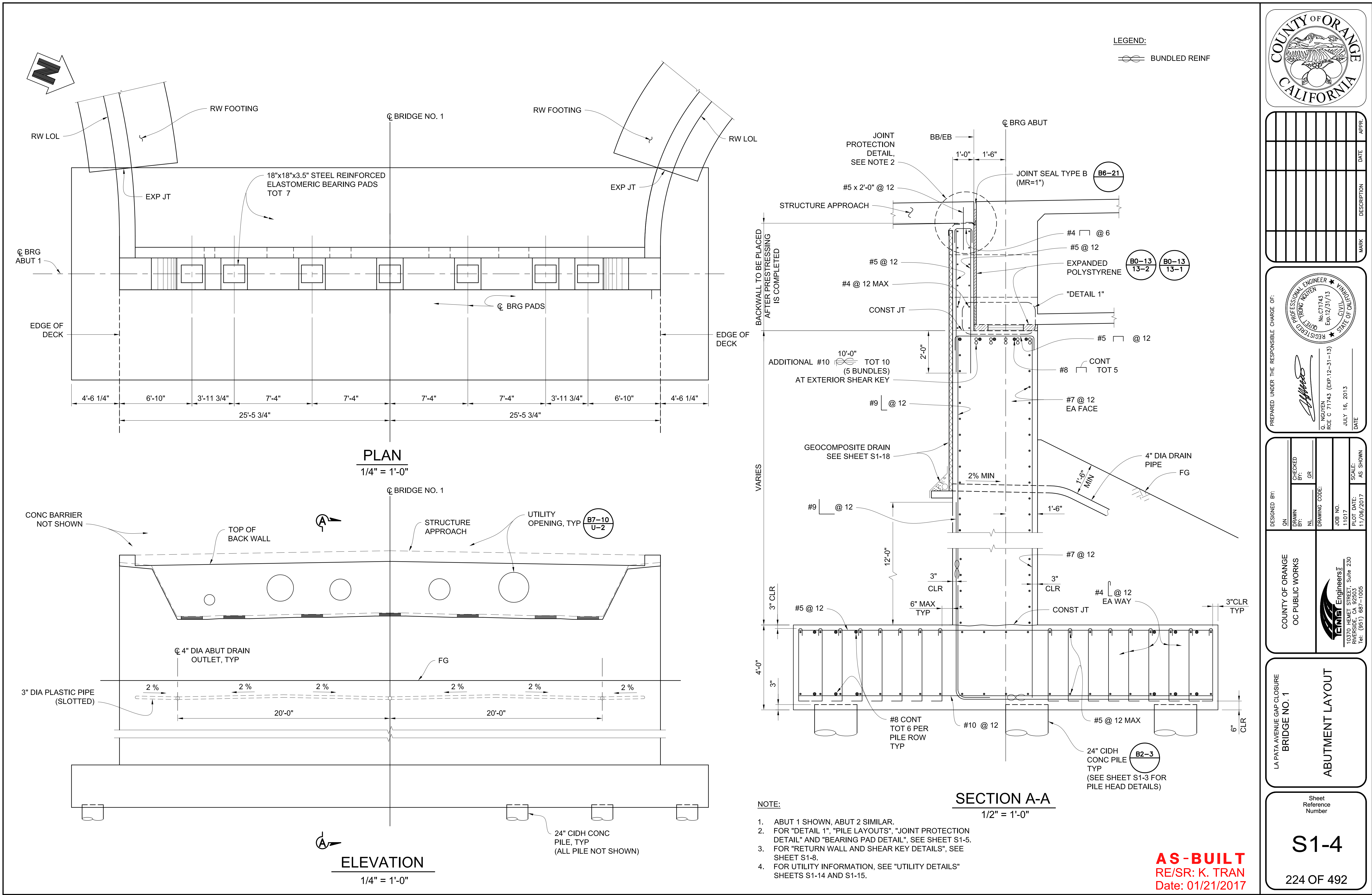
LA PATA AVENUE GAP CLOSURE
BRIDGE NO. 1

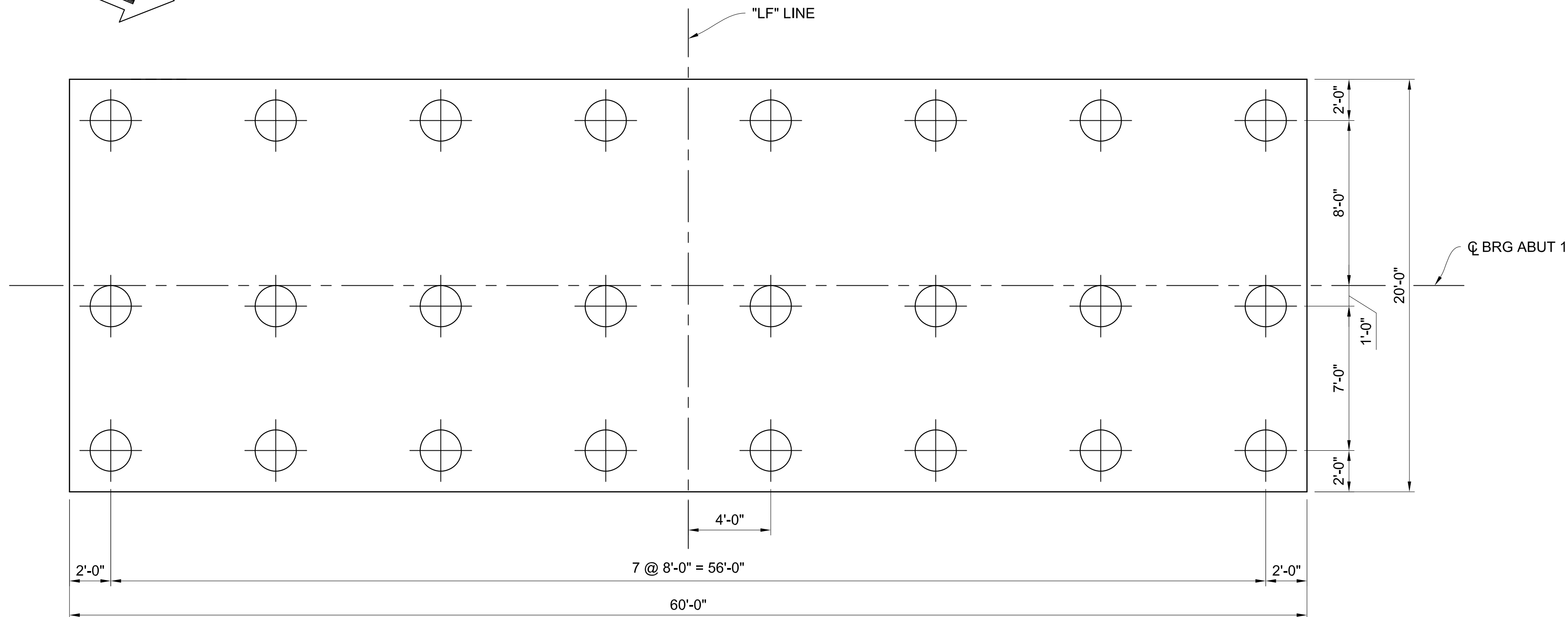
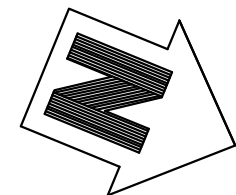
FOUNDATION PLAN

Sheet
Reference
Number

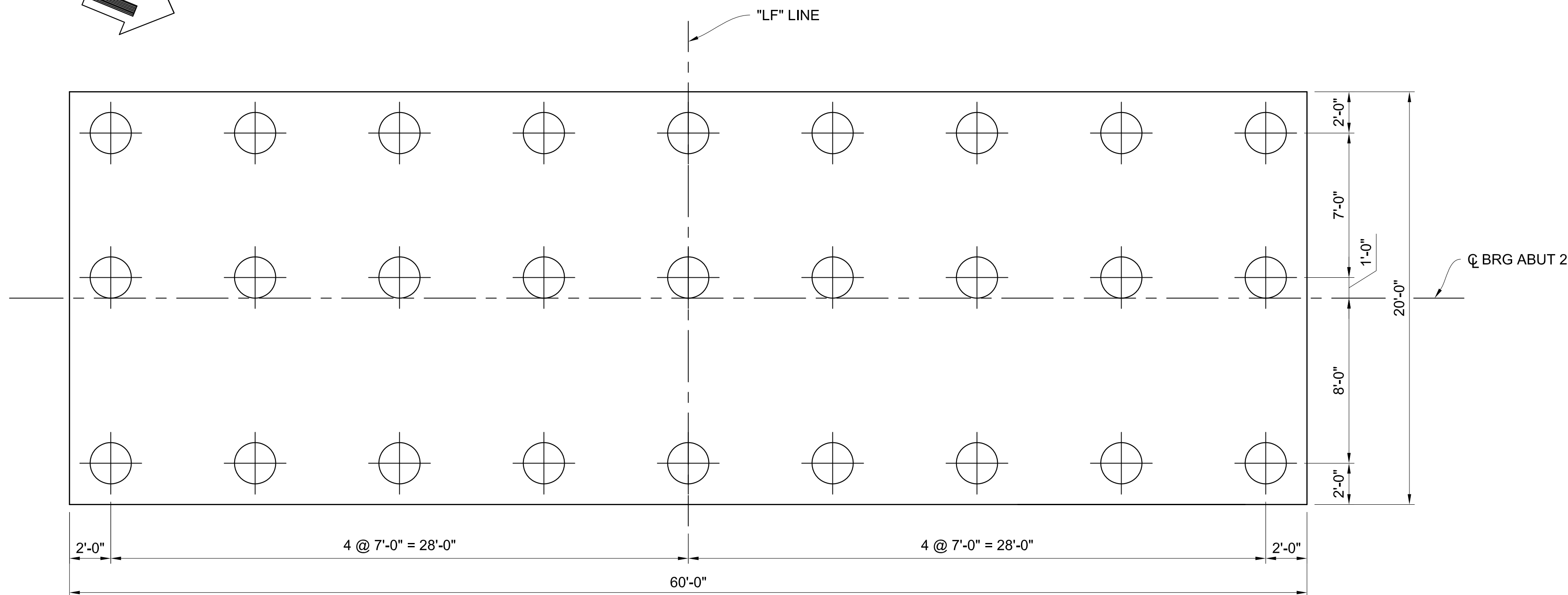
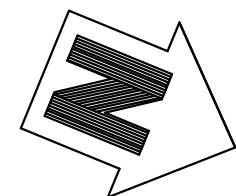
S1-3

223 OF 492

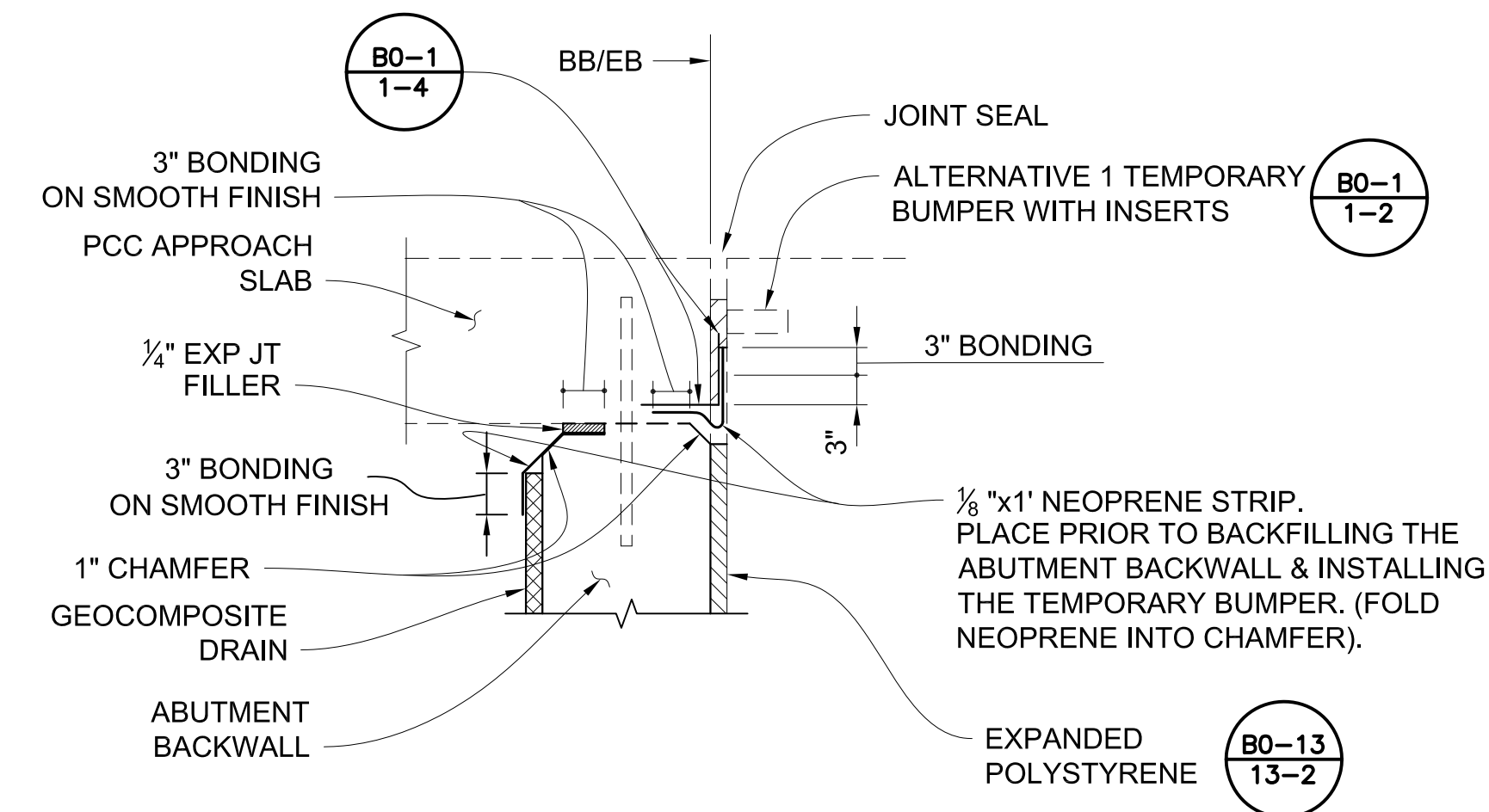




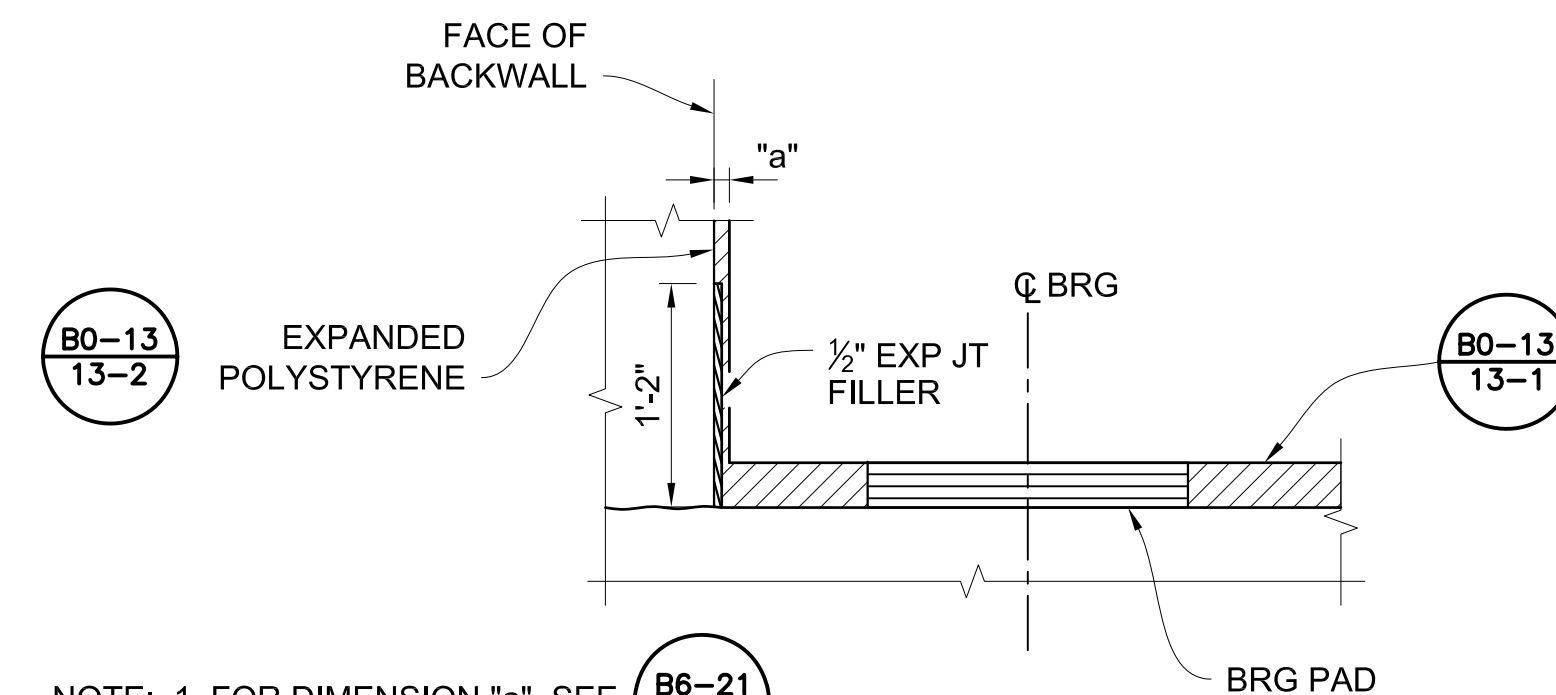
PILE LAYOUT - ABUT 1
NO SCALE



PILE LAYOUT - ABUT 2
NO SCALE

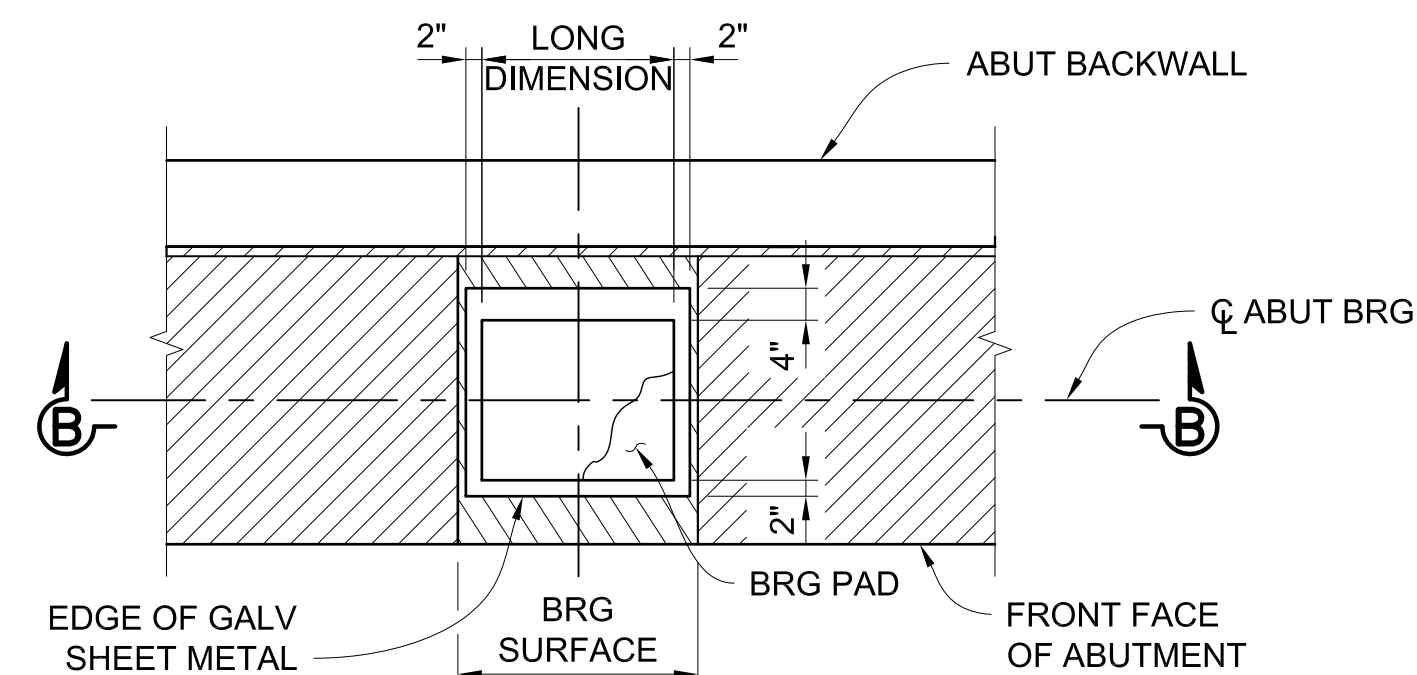


JOINT PROTECTION DETAIL
NO SCALE

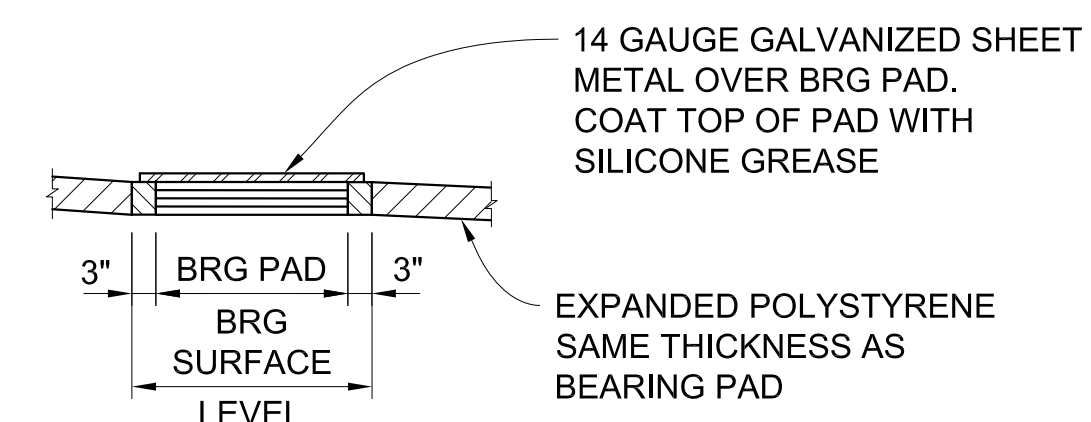


NOTE: 1. FOR DIMENSION "a", SEE B6-21
2. FOR LOCATION OF DETAIL 1, SEE SHEET S1-4.

DETAIL 1
NO SCALE



BEARING PAD DETAIL
NO SCALE



SECTION B-B
NO SCALE

AS-BUILT
RE/SR: K. TRAN
Date: 01/21/2017



MARK	DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

REGISTERED PROFESSIONAL ENGINEER
COUNTY OF ORANGE
No. C71743
Exp. 12/31/13
Q. NGUYEN
RCE C 71743 (EXP. 12-31-13)
JULY 16, 2013
DATE

DESIGNED BY: ON
DRAWN BY: NL
CHECKED BY: GR
DRAWING CODE:
JOB NO. 11017
PLOT DATE: 11/06/2017
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COUNTY OF ORANGE
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OC Engineering
10370 HENRY STREET, Suite 230
RIVERSIDE, CA 92503
Tel: (951) 687-1005

LA PATA AVENUE GAP CLOSURE
BRIDGE NO. 1

ABUTMENT
DETAILS NO. 1

Sheet
Reference
Number

S1-5

225 OF 492

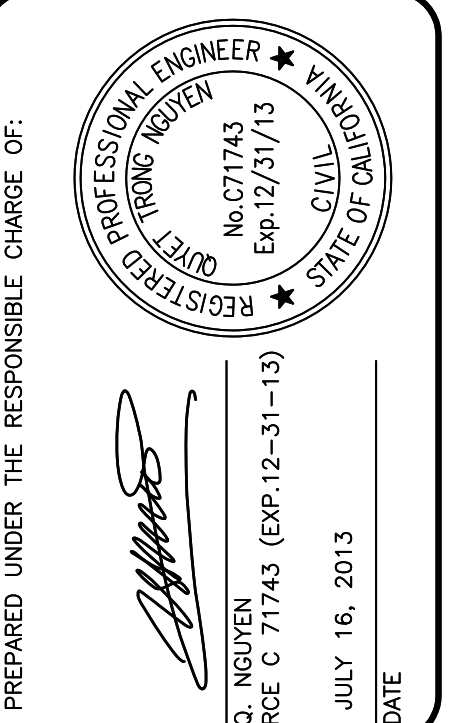
ABUT 1 SOUTHERLY RETAINING WALL
DEVELOPED ELEVATION
1/4" = 1'-0"

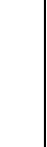
ABOUT 1 NORTHERLY RETAINING WALL
DEVELOPED ELEVATION
1/4" = 1'-0"

ABUT 1 SOUTHERLY RETAINING WALL PLAN
1/4" = 1'-0"

ABUT 1 NORTHERLY RETAINING WALL PLAN

NOTE: FOR "SECTIONS C-C AND D-D", SEE SHEET S1-8.

[illegible]

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	BY:	11017	AS SHOWN
NL	GR	PLOT DATE:	
		11/08/2017	

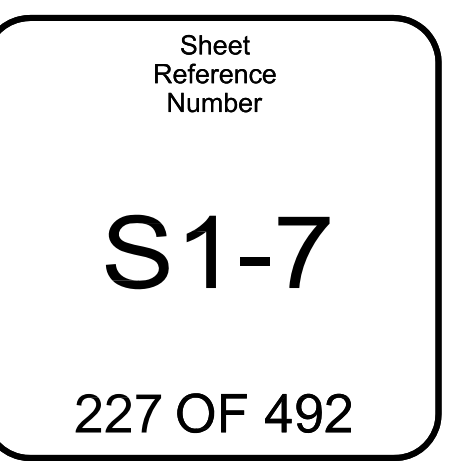
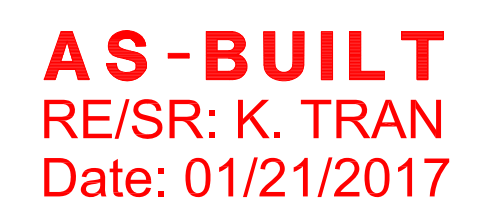
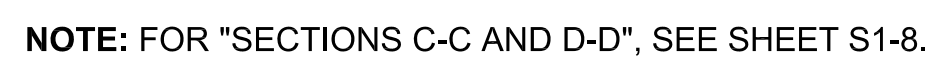
LA PATA AVENUE GAP CLOSURE
BRIDGE NO. 1

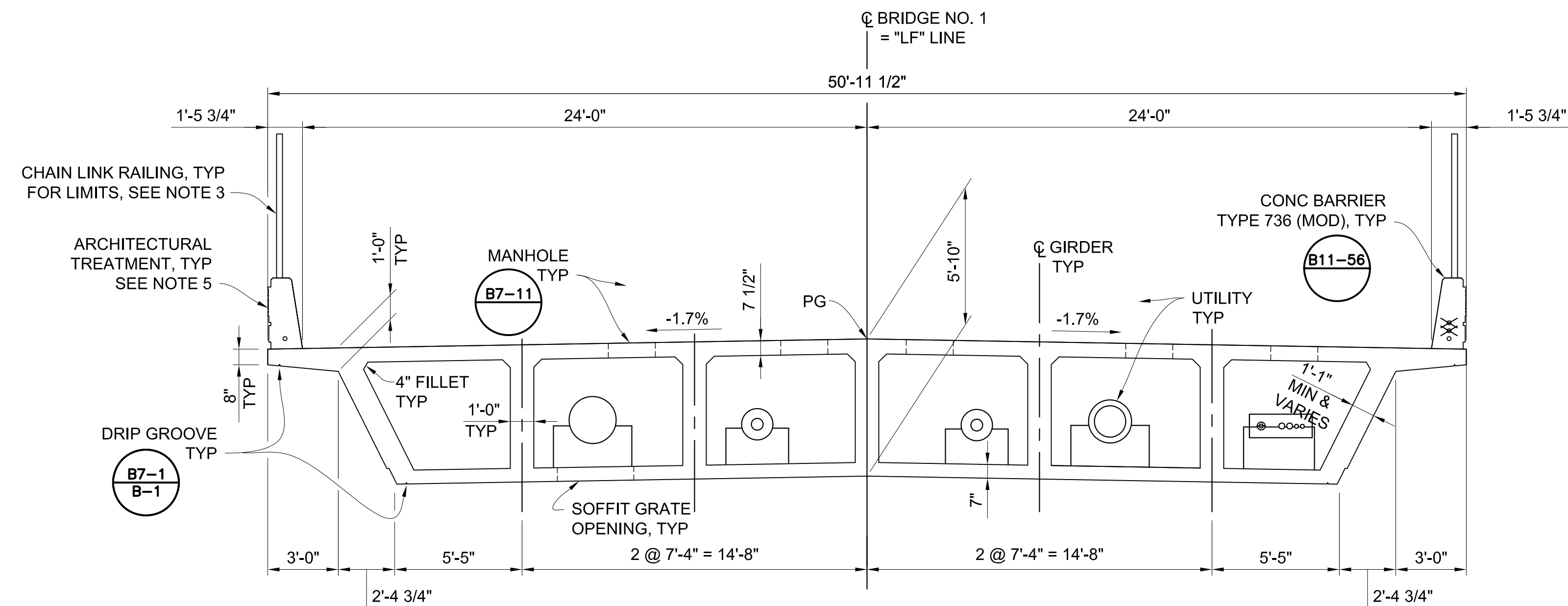
ABUTMENT
DETAILS NO. 2

Sheet
Reference
Number

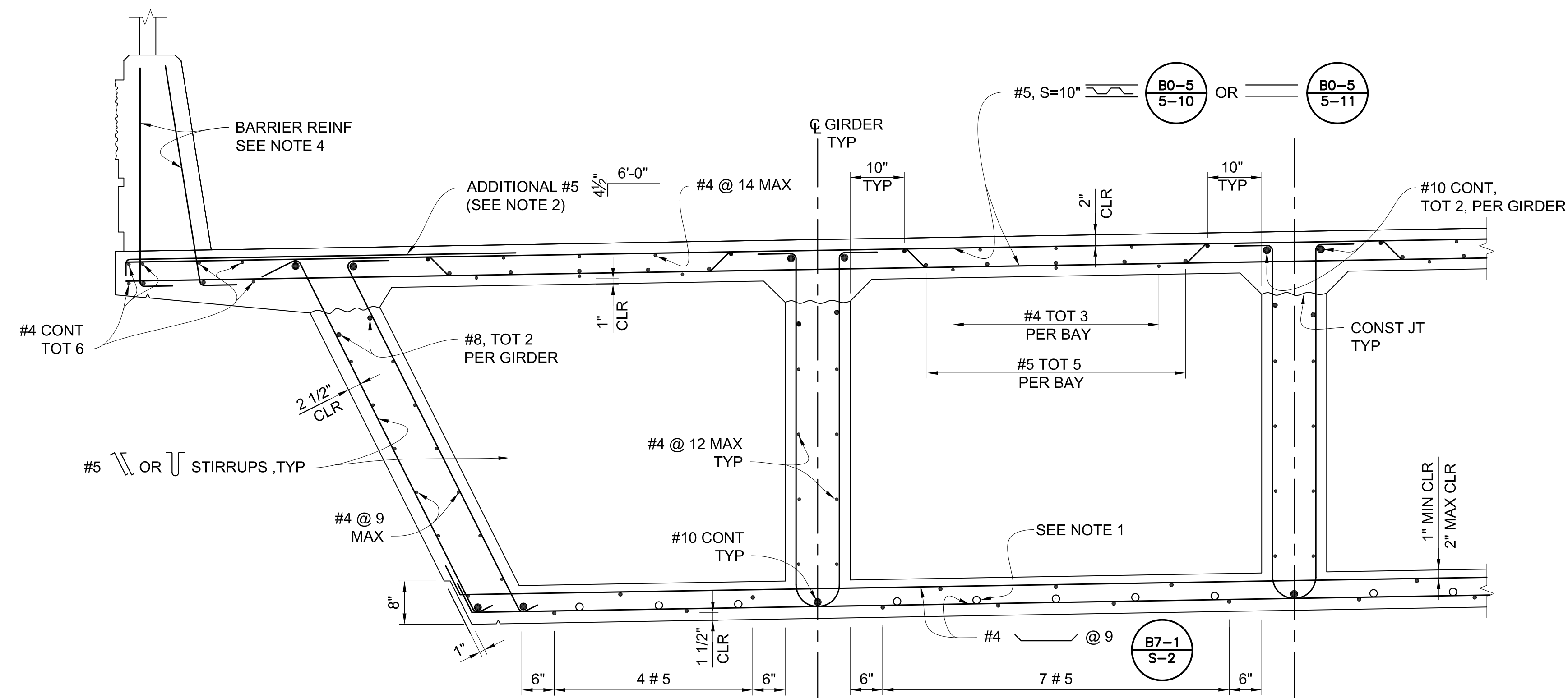
S1-6

226 OF 492

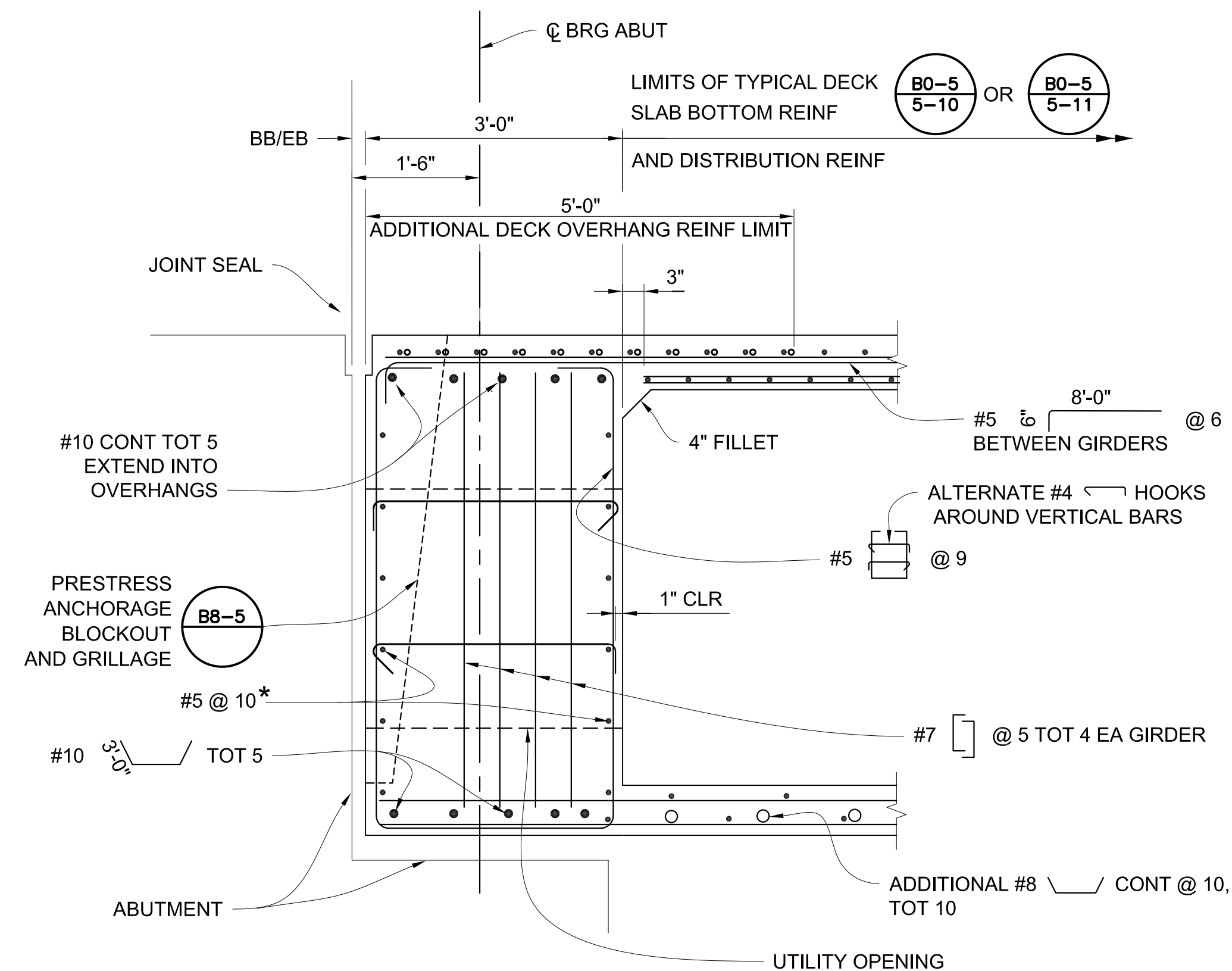
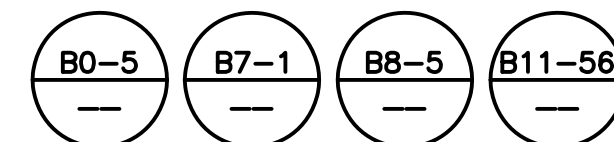




TYPICAL SECTION
SCALE 1/4" = 1'-0"



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



* BARS MAY BE SPLICED OR BENT TO CLEAR PRESTRESS ANCHORAGE AS DIRECTED BY THE ENGINEER.

END DIAPHRAGM DETAIL
3/4" = 1'-0"

LEGEND:

- ADDITIONAL REINFORCEMENT

NOTE:

- FOR ADDITIONAL GIRDER REINFORCEMENT, SEE SHEET S1-11.
- BUNDLE WITH TOP TRANSVERSE BARS IN THE OVERHANG. PLACE WITHIN 5'-0" FROM EXPANSION JOINTS AT ABUTMENTS.
- LIMITS OF CHAIN LINK RAILING ON BOTH LEFT AND RIGHT CONCRETE BARRIERS ARE FROM "LF" 9+35.75 TO "LF" 10+64.25.
- FOR CONCRETE BARRIER TYPE 736 (MOD) DETAILS, SEE SHEET S1-11 AND CALTRANS STANDARD PLAN B11-56.
- FOR ARCHITECTURAL TREATMENT DETAILS, SEE SHEETS S1-12 AND S1-13.
- ONLY "SERVICE SPLICES" ARE ALLOWED IN #10 REINF.
- FOR UTILITY INFORMATION NOT SHOWN, SEE SHEETS S1-14, S1-15 AND "UTILITY PLANS".



MARK	DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

REGISTERED PROFESSIONAL ENGINEER
Q. NGUYEN
RCE C 71743 (EXP-12-31-13)
JULY 16, 2013
DATE

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COUNTY OF ORANGE
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LA PATA AVENUE GAP CLOSURE
BRIDGE NO. 1

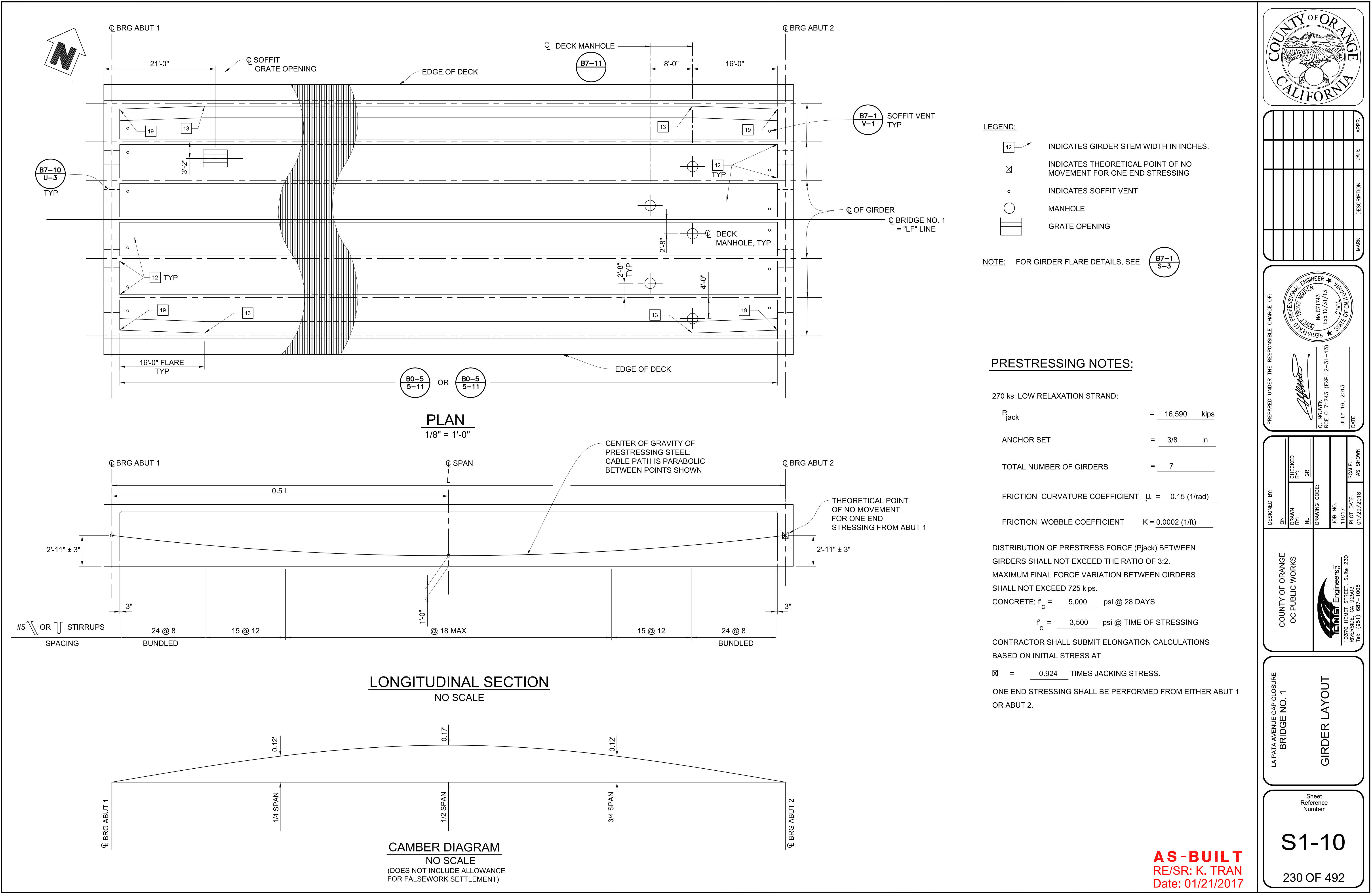
TYPICAL SECTION

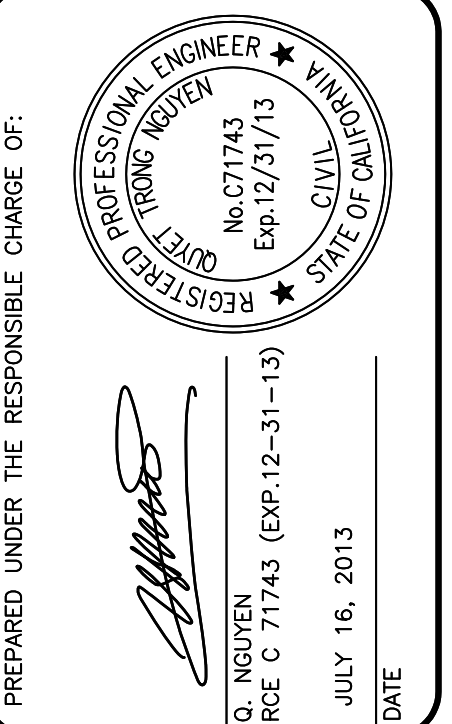
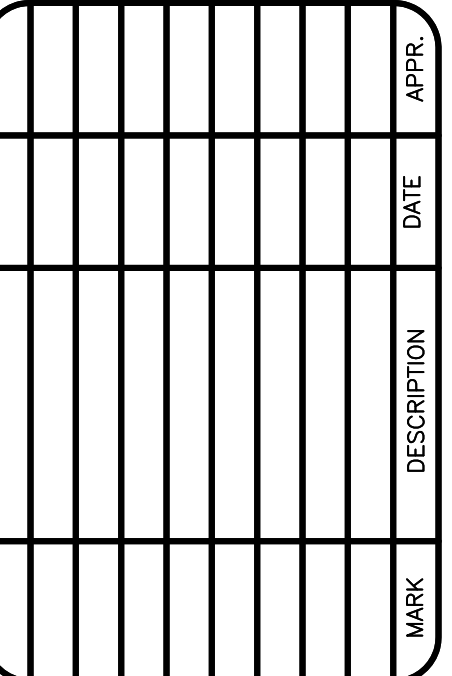
Sheet
Reference
Number

S1-9

229 OF 492

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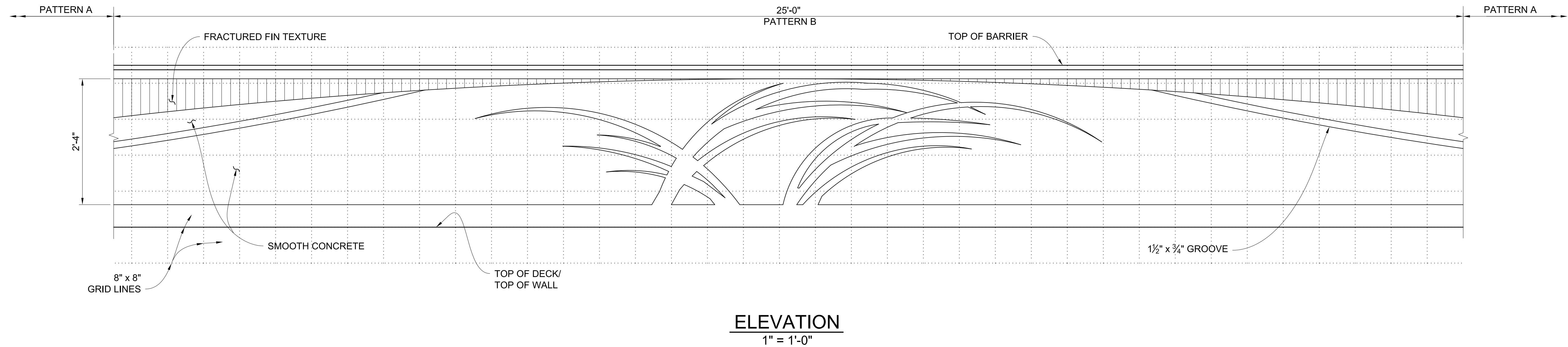
LA PATA AVENUE GAP CLOSURE
BRIDGE NO. 1

ARCHITECTURAL
TREATMENT
DETAILS NO. 1

Sheet
Reference
Number

S1-12

232 OF 492

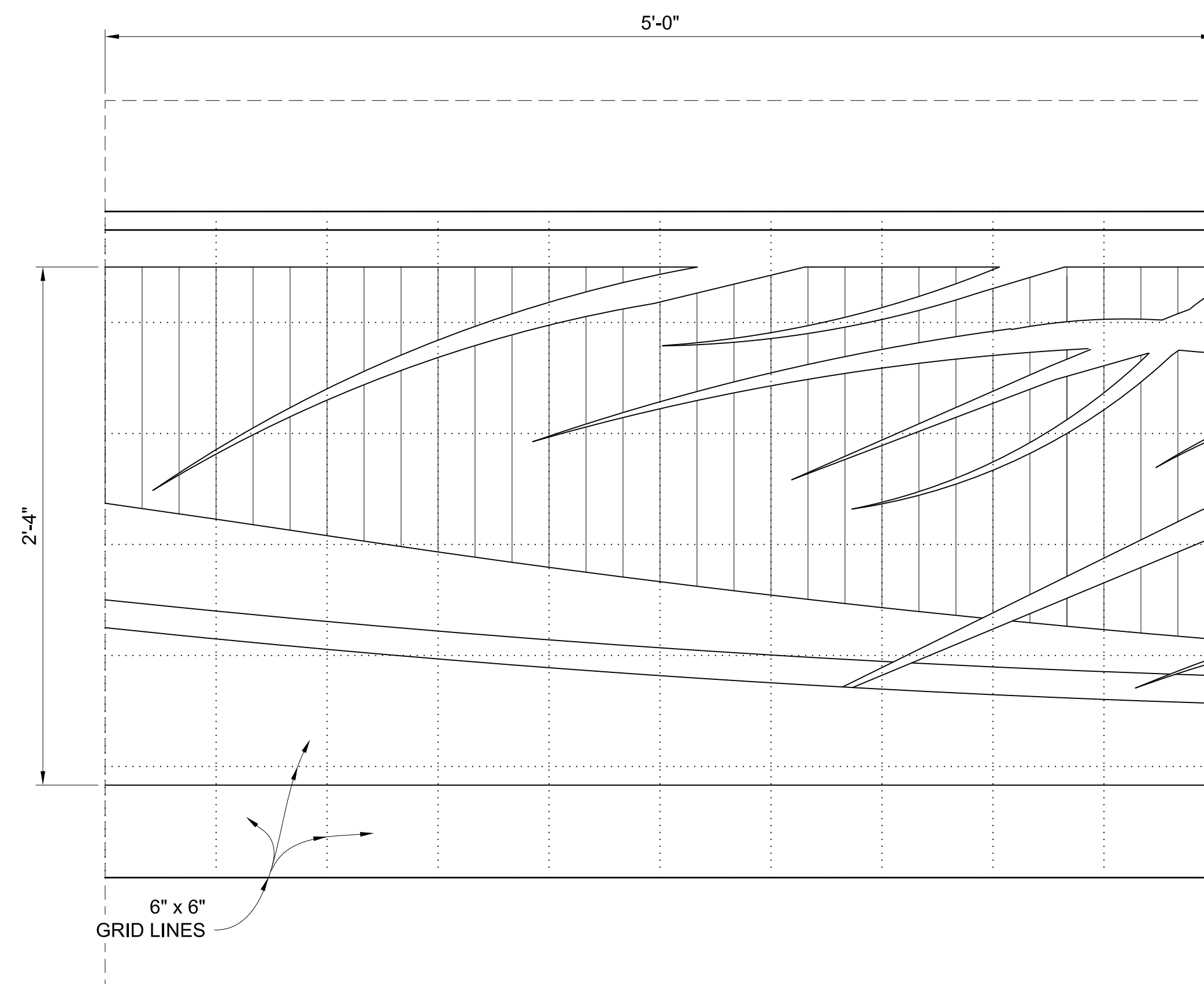


- NOTES:
1. FOR "TEST PANEL" AND "SECTION A-A", SEE SHEET S1-13.
 2. STOP ARCHITECTURAL TREATMENT AT 9'-8" BEYOND EACH END OF CONCRETE BARRIER.

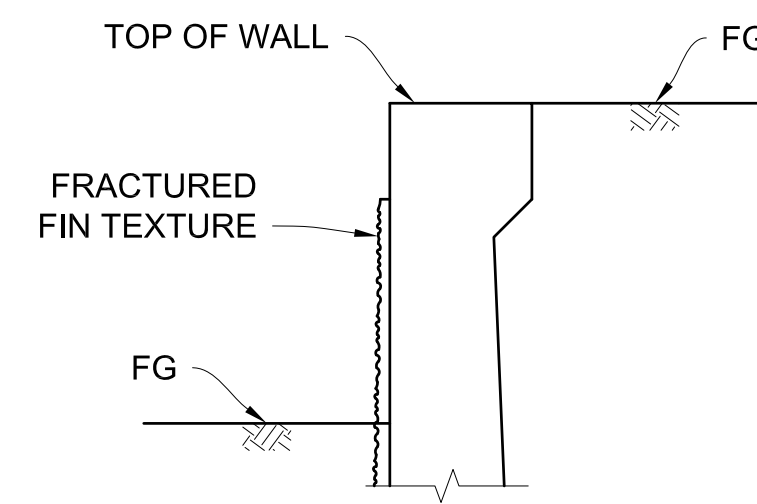
AS-BUILT
RE/SR: K. TRAN
Date: 01/21/2017

NOTE: WINGWALL AT ABUT1 SHOWN
WINGWALL AT ABUT 2 SIMILAR.

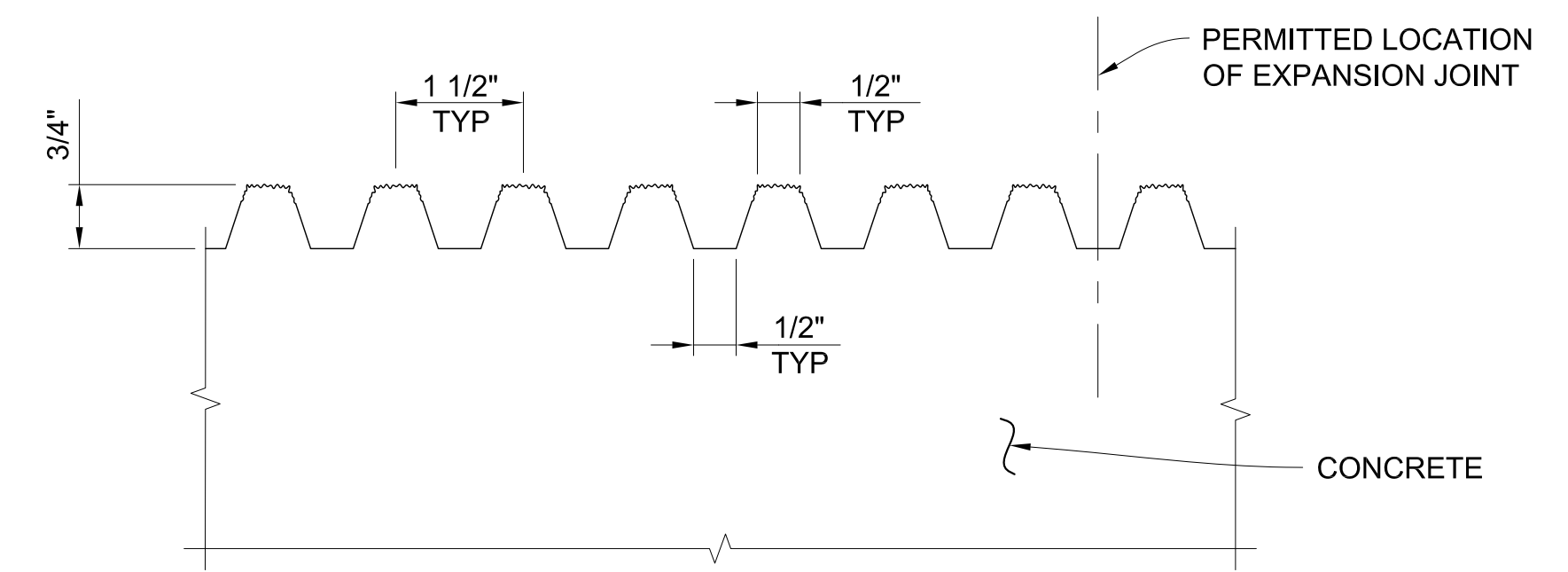
WINGWALL ELEVATION
1/4" = 1'-0"



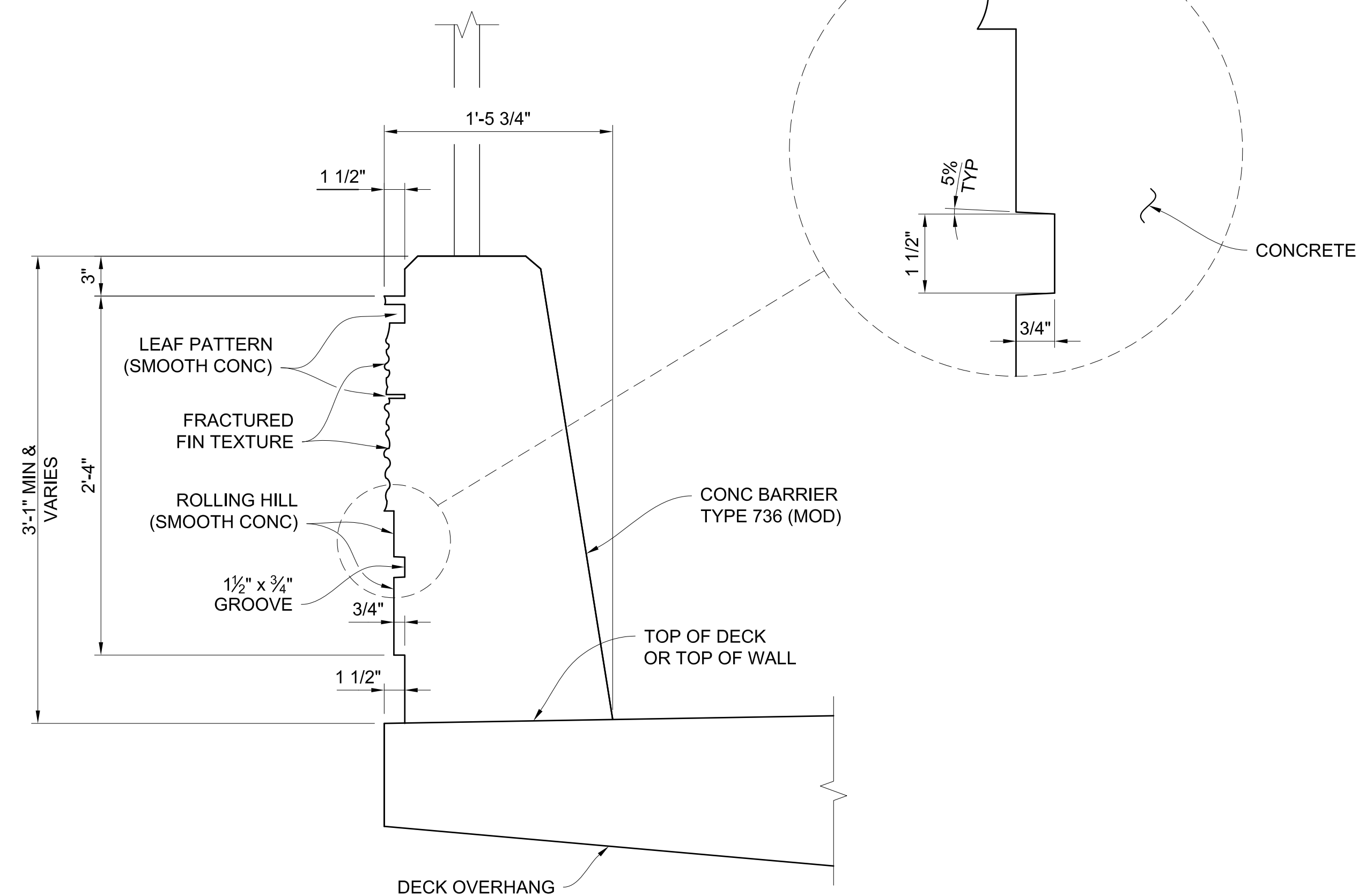
TEST PANEL
2" = 1'-0"



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

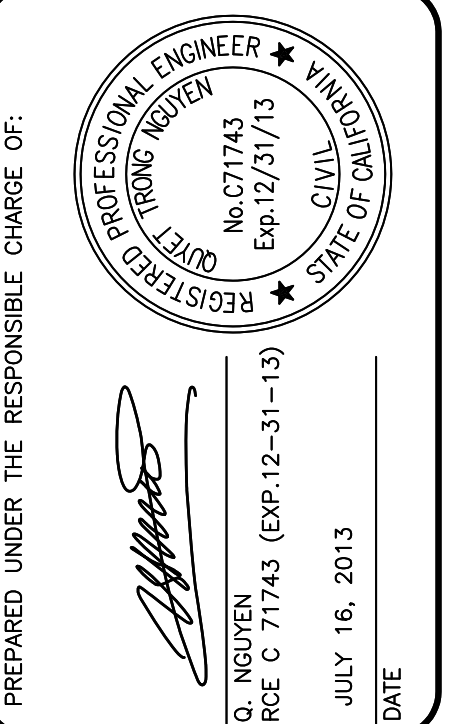


TYPICAL FRACTURED FIN TEXTURE SECTION
NO SCALE



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

- NOTES:**
1. "SECTION A-A" AT DECK OVERHANG SHOWN, "SECTION A-A" AT RETAINING WALL OR RETURN WALL SIMILAR.
 2. FOR LOCATIONS OF "SECTION A-A" AND "TEST PANEL" SEE SHEET S1-12.

[illegible]

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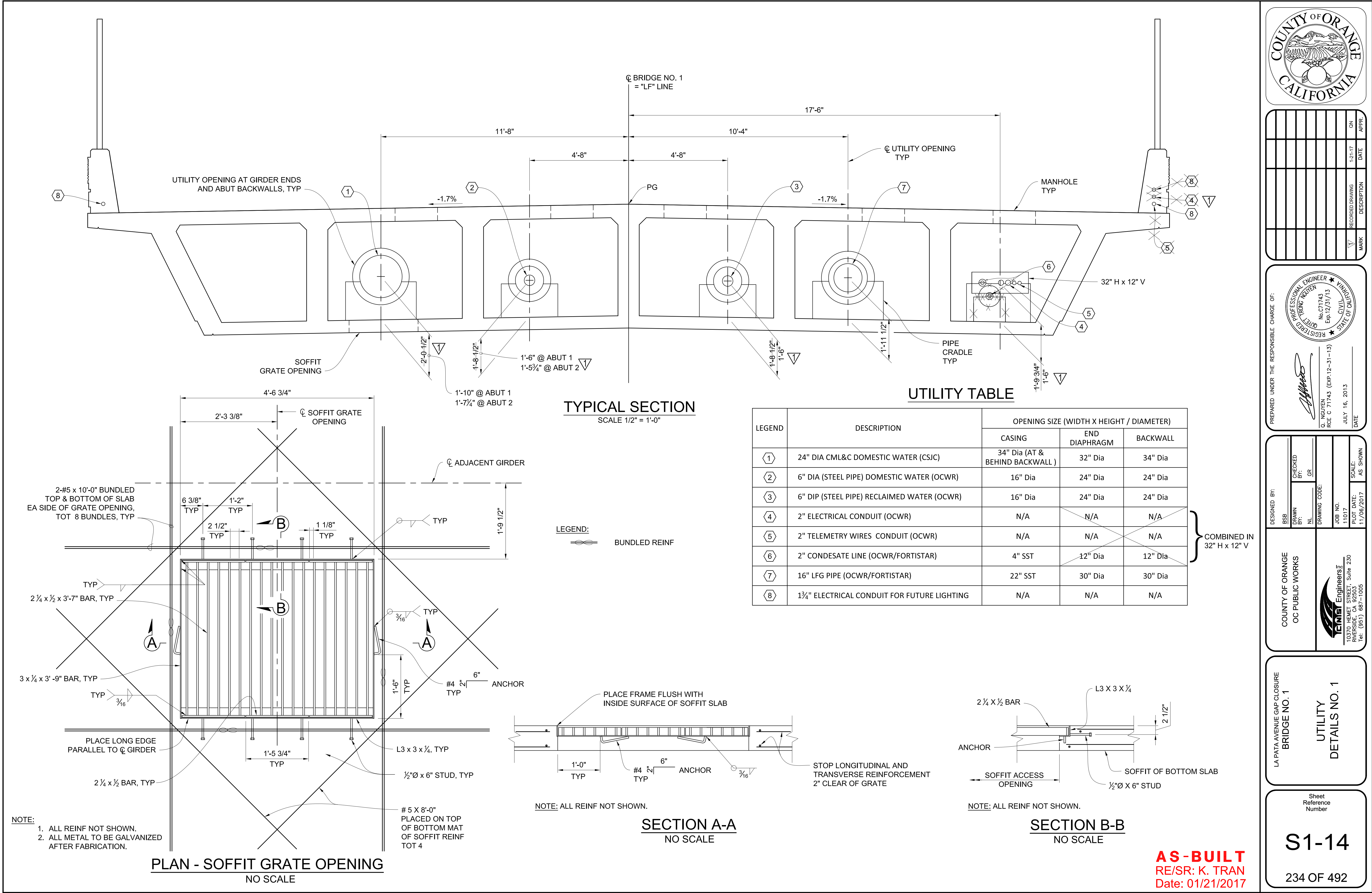
LA PATA AVENUE GAP CLOSURE
BRIDGE NO. 1

ARCHITECTURAL
TREATMENT
DETAILS NO. 2

Sheet
Reference
Number

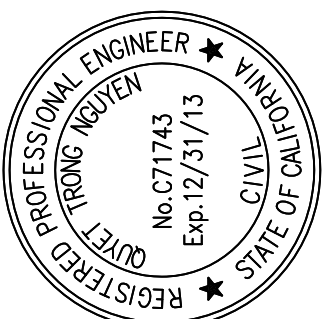
S1-13

233 OF 492





MARK	RECORDED DRAWING	DATE	ON	APPR.
1				
2				
3				
4				
5				
6				
7				
8				



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OC PUBLIC WORKS

ENGINEERS
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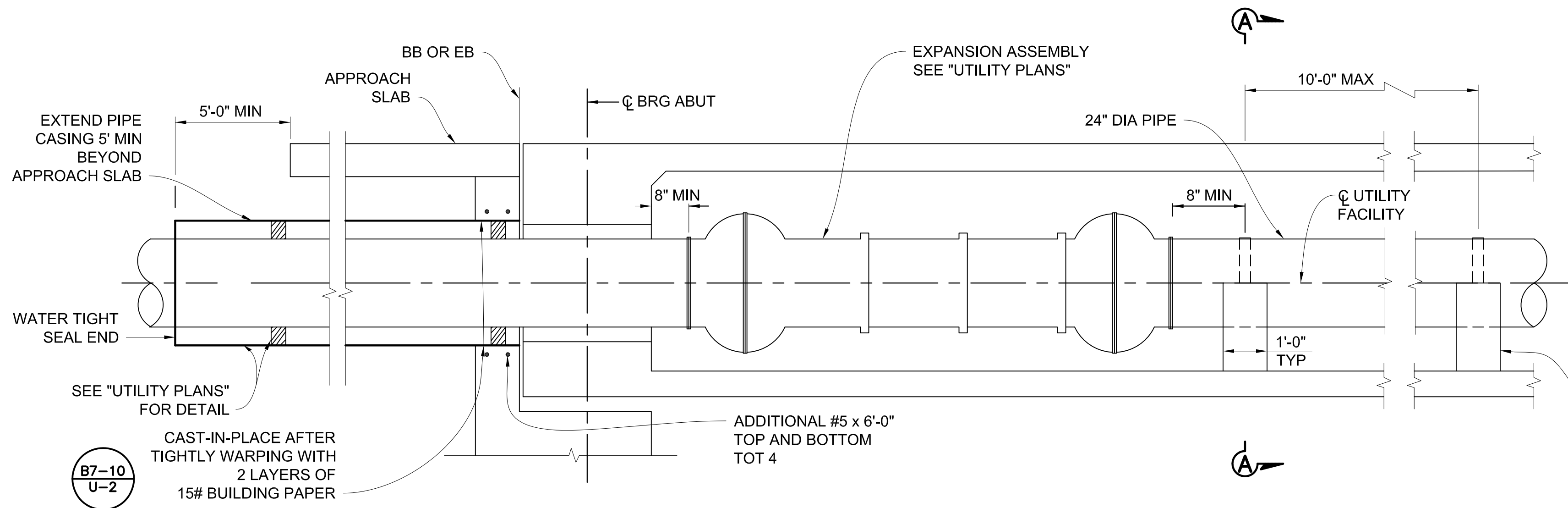
LA PATA AVENUE GAP CLOSURE
BRIDGE NO. 1

**UTILITY
DETAILS NO. 1**

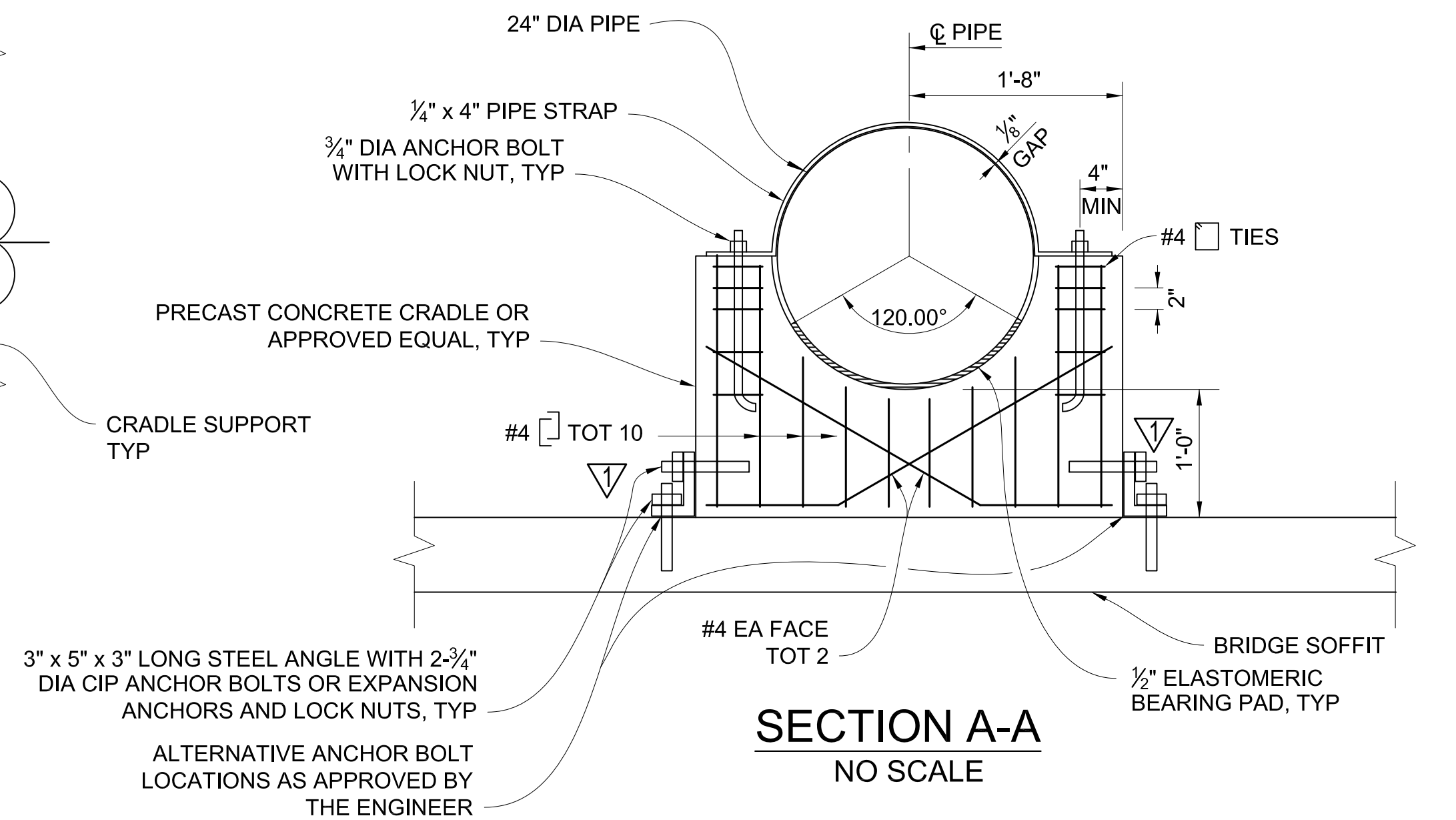
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Reference
Number

S1-14

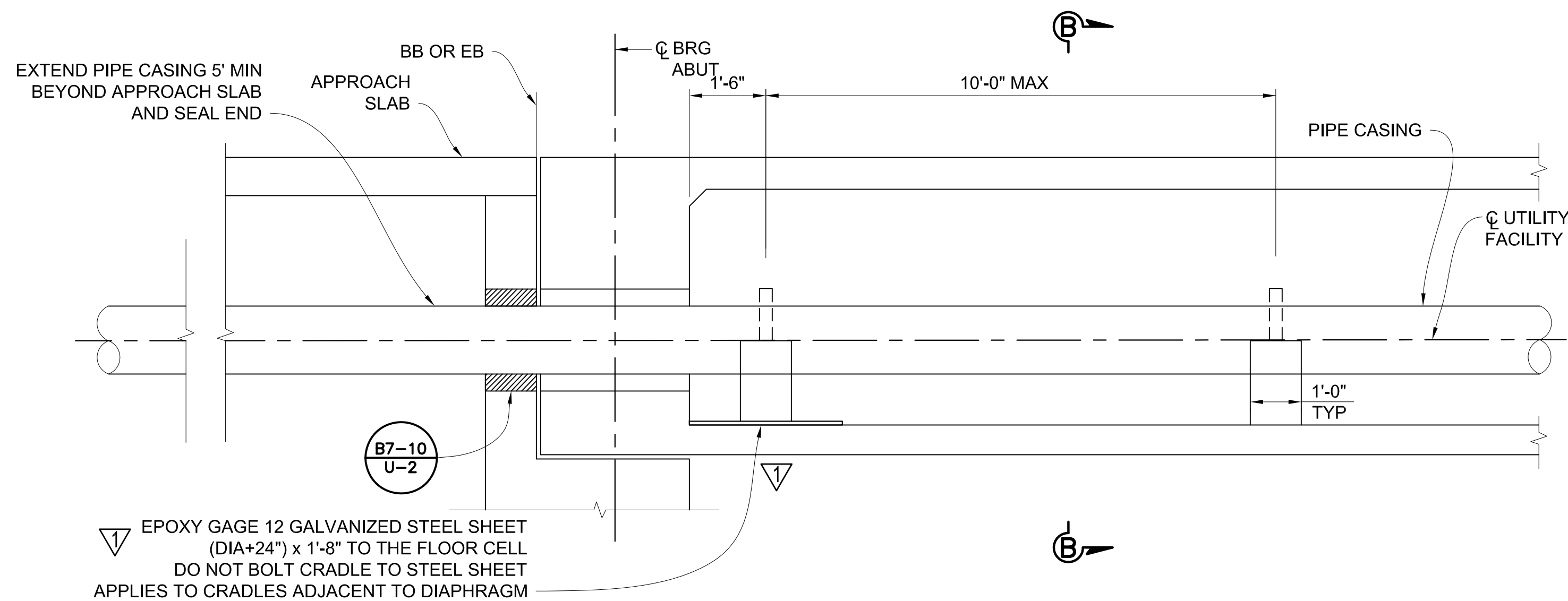
234 OF 492



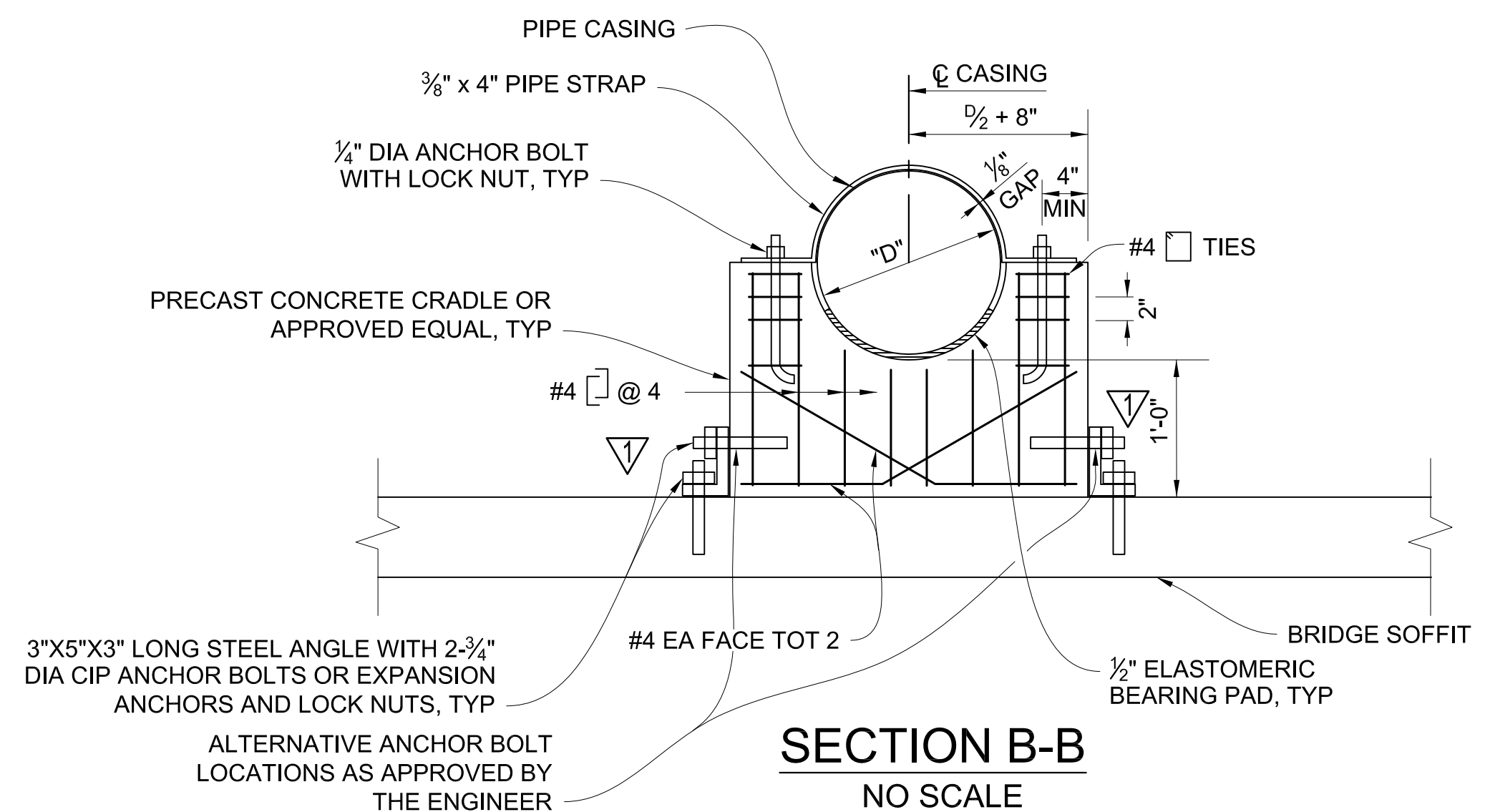
24" DIA WATER PIPE INSTALLATION AT ABUTMENTS
NO SCALE



SECTION A-A
NO SCALE



TYPICAL PIPE CASING INSTALLATION AT ABUTMENTS
NO SCALE



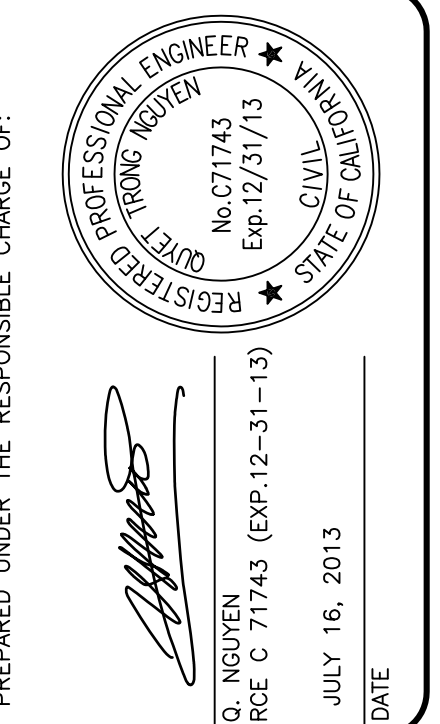
SECTION B-B
NO SCALE

NOTES:

1. PIPE SUPPORT SPACING SHALL BE AT 10'-0" MAX ALONG PIPE.
2. PIPE SUPPORT SHALL BE 12" MIN CLEAR OF DIAPHRAGM WALLS.
3. ALL HARDWARE SHALL BE GALVANIZED AFTER FABRICATION.
4. SEE "UTILITY TABLE" ON SHEET S1-14 FOR CASING SIZE AND LOCATION.
5. FOR DETAILS NOT SHOWN, SEE "UTILITY PLANS".



MARK	DESCRIPTION	DATE	APP.
1-21-17			



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COUNTY OF ORANGE OC PUBLIC WORKS	ENGINEERS 10370 HENRY STREET, Suite 230 RIVERSIDE, CA 92503 Tel: (951) 687-1005	LA PATA AVENUE GAP CLOSURE BRIDGE NO. 1	UTILITY DETAILS NO. 2	

LA PATA AVENUE GAP CLOSURE BRIDGE NO. 1	UTILITY DETAILS NO. 2
--	--------------------------

Sheet Reference Number
S1-15
235 OF 492

AS-BUILT
RE/SR: K. TRAN
Date: 01/21/2017



POST NO.	DISTANCE FROM BB/EB	POST HEIGHT
POST 10	68'-9"	7'-9 ¹ / ₈ "
POST 11	76'-3"	7'-6 ¹ / ₈ "
POST 12	83'-9"	7'-1 ¹ / ₂ "
POST 13	91'-3"	6'-7 ¹ / ₈ "
POST 14	98'-9"	5'-11"
POST 15	106'-3"	5'-2 ³ / ₄ "
POST 16	113'-9"	4'-8 ¹ / ₄ "
POST 17	121'-3"	4'-3 ¹ / ₂ "
POST 18	129'-3"	4'-0 ¹ / ₄ "

CHAIN LINK RAILING

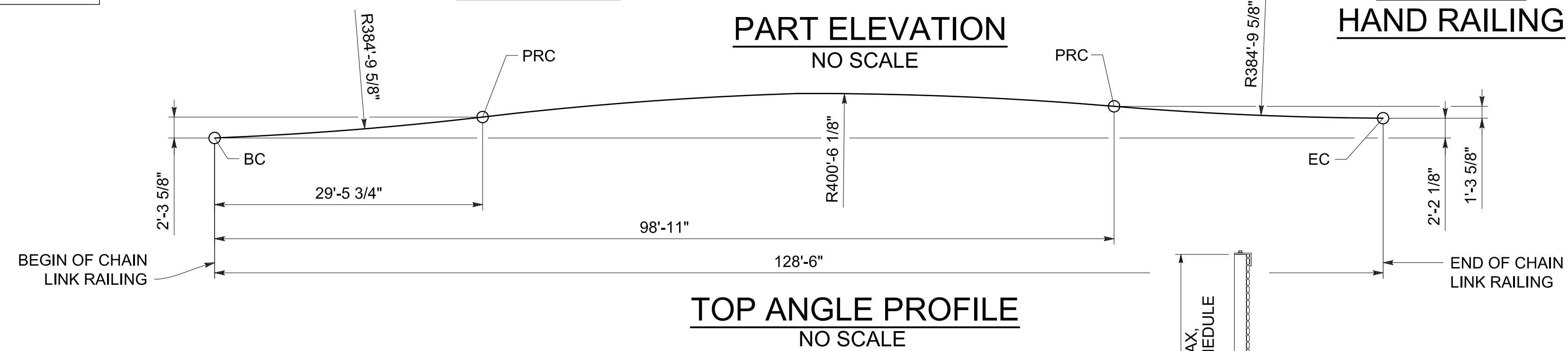
END POST

TUBULAR HAND RAILING

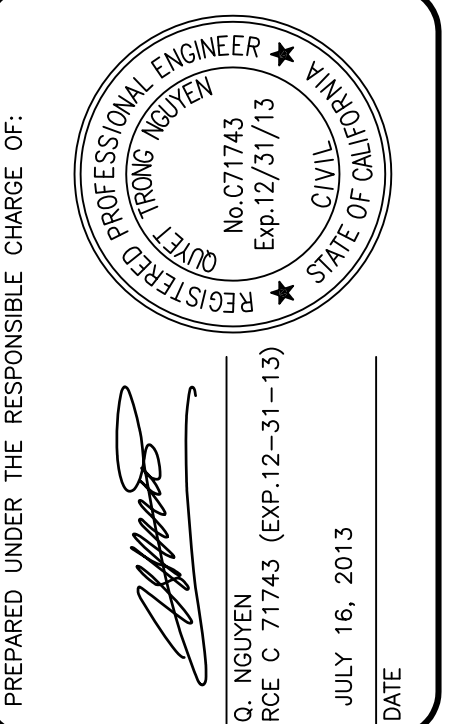
PART ELEVATION

DETAILS:

- CHAIN LINK FABRIC 1" MESH. KNUCKLED SELVAGE TOP AND BOTTOM.**
- ANCHOR 5/16" Ø GALV CABLE AT END POSTS WITH STUD SOCKET ASSEMBLY OR 1/2" Ø WELDED EYE BOLT AND CRIMPED CRIMPED SLEEVE CLAMP. PROVIDE 1 1/2" MIN TAKEUP AT EACH ANCHORAGE.**
- SECURE FABRIC TO INTERMEDIATE POSTS WITH 1/4" Ø HEX HEAD SELF-TAPING SCREW WITH 3/16" x 3/4" x 1 3/4" WASHER @ 1'-2" MAX**
- TS 3 x 2 x 3/16 (TYP ALL POSTS)**
- 0.148" Ø STEEL WIRE TIES @ 1'-0" TO TENSION WIRE AND CABLE**
- 5/16" Ø GALV CABLE THREADED THROUGH 3/8" Ø HOLES IN INTERMEDIATE POSTS.**
- L3 1/2 x 2 1/2 x 1/4 OVER END POST**
- LENGTH FOR PAYMENT OF TUBULAR HAND RAILING**
- 2'-0" TYP**
- SEE B11-51 FOR DETAILS.**
- 1" CLR**
- 3/16" CLR TO ANGLE**
- 9" TYP**
- 7'-6" MIN - 8'-0" MAX**
- 1'-0"**
- 7'-6" MIN - 8'-0" MAX**
- BEGIN OF CHAIN LINK RAILING**
- END OF CHAIN LINK RAILING**
- SEE "TOP ANGLE PROFILE"**
- SEE "POST ANCHORAGE DETAIL"**
- SEE SPLICE DETAIL**



- AS-BUILT**
RE/SR: K. TRAN
Date: 01/21/2017

[illegible]

COUNTY OF ORANGE OC PUBLIC WORKS	 10370 HEWITT STREET, Suite 230 Brea, CA 92621 Tel: (951) 687-1005	DESIGNED BY:	BSB
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		11017	
		SCALE:	
		DATE:	AS SHOWN
		11/06/2017	

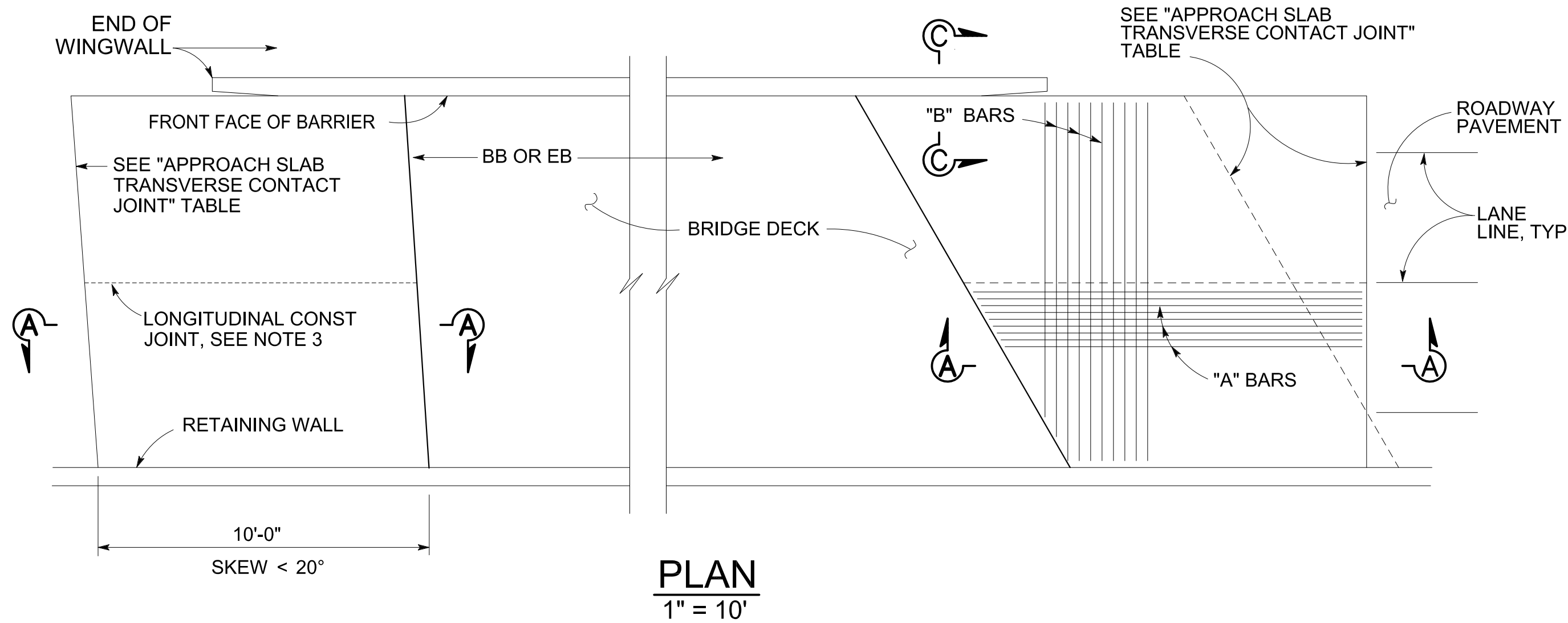
LA PATA AVENUE GAP CLOSURE
BRIDGE NO. 1

CHAIN LINK RAILING DETAILS

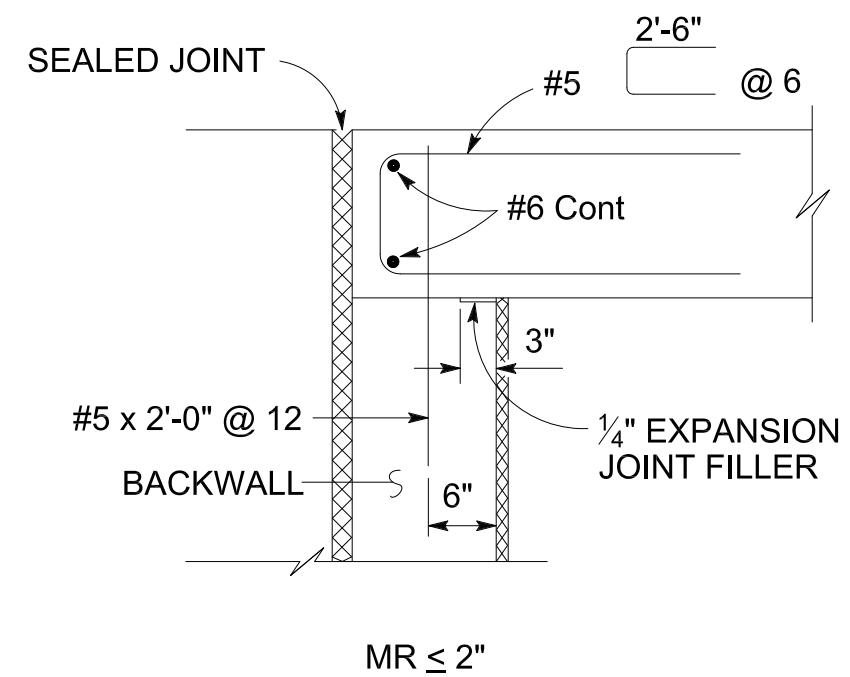
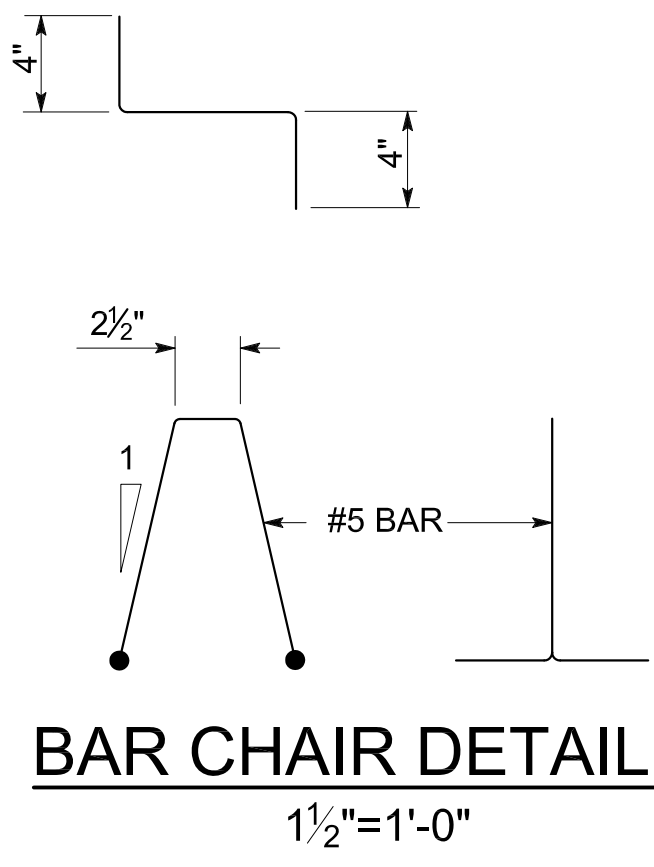
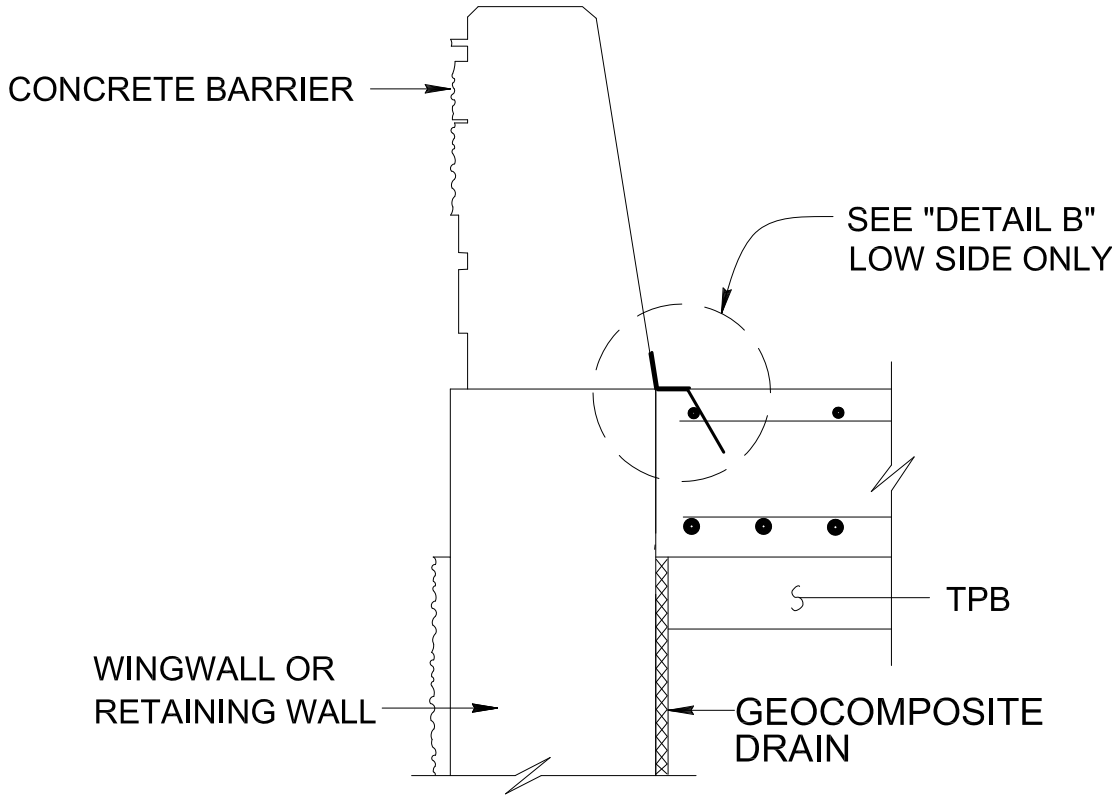
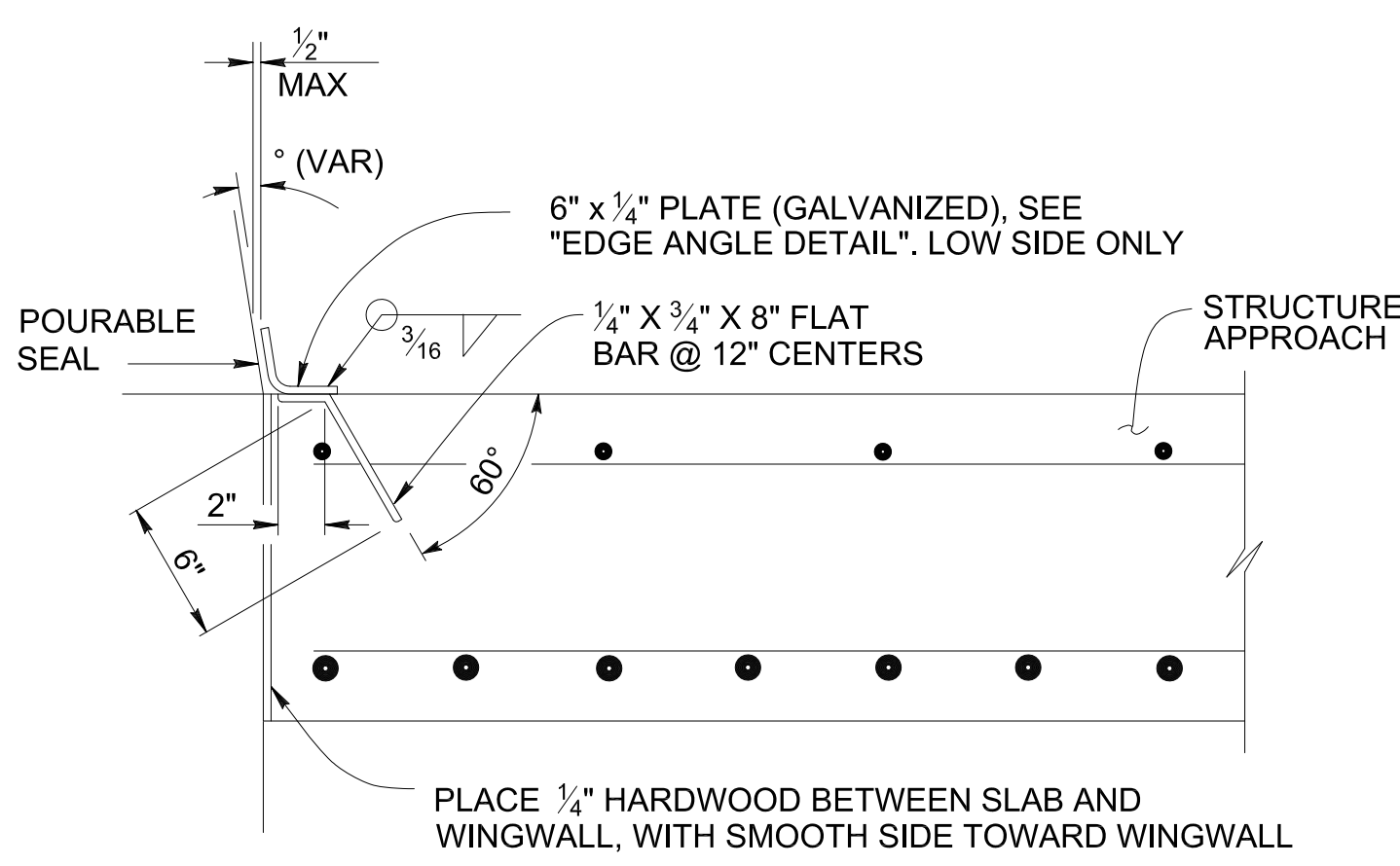
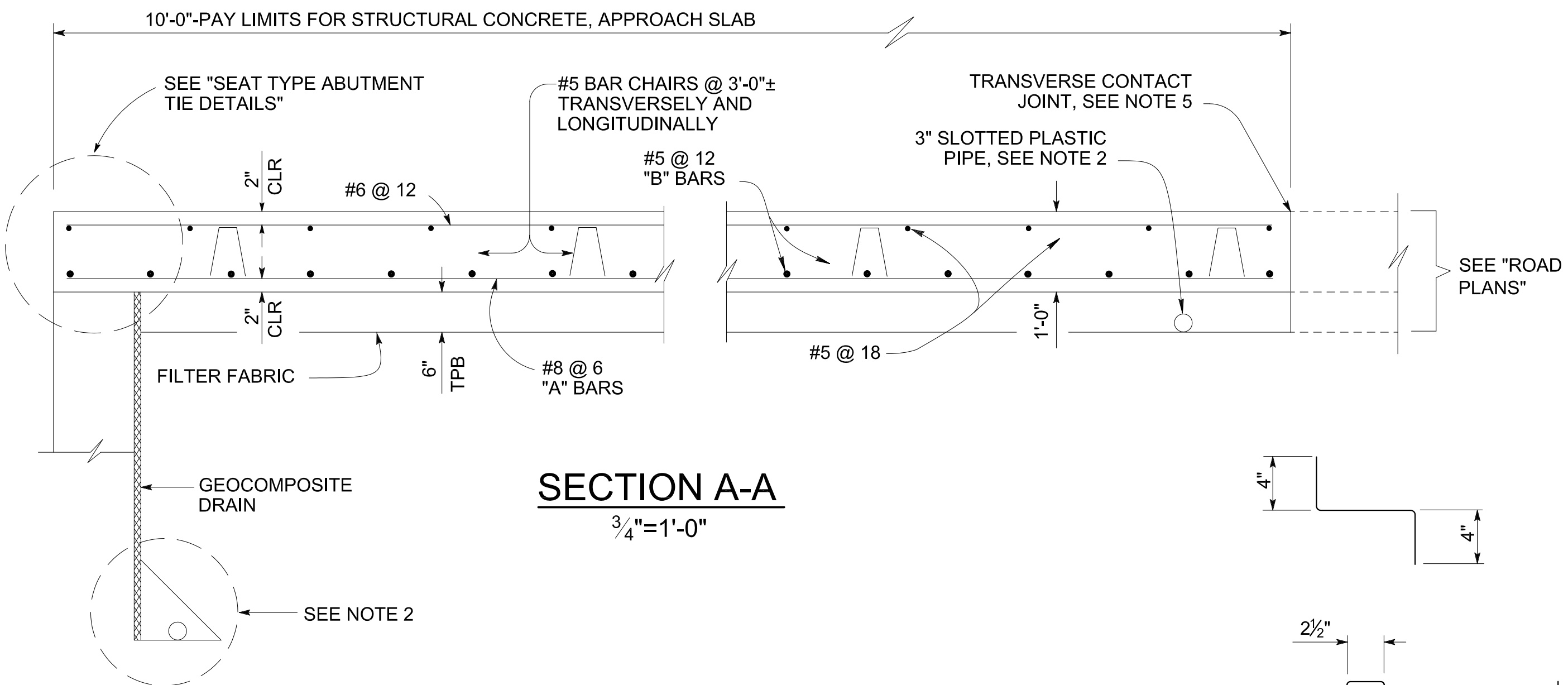
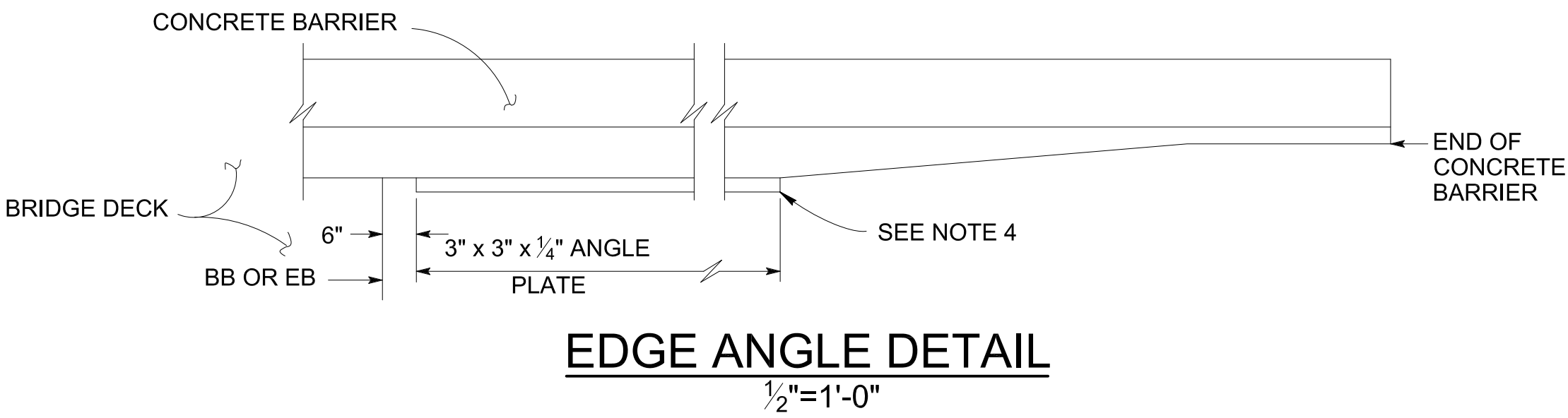
Sheet
Reference
Number

S1-16

236 OF 492



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



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

- NOTES:**
1. FOR DETAILS NOT SHOWN, SEE STRUCTURE PLANS. FOR MR ≤ 2", ADJUST BAR REINFORCEMENT TO CLEAR A SAWCUT FOR SEALED JOINT, WHEN REQUIRED.
 2. FOR DRAINAGE DETAILS, SEE SHEET S1-18.
 3. LONGITUDINAL CONSTRUCTION JOINTS, WHEN PERMITTED BY THE ENGINEER, SHALL BE LOCATED ON LANE LINES.
 4. END PLATE AT BEGINNING OF BARRIER. TRANSITION, END OF WINGWALL OR END OF STRUCTURE APPROACH AS APPLICABLE.
 5. FOR TRANSVERSE CONTACT JOINT WITH NEW PCC PAVING, REFER TO STANDARD PLAN P10.
 6. AT THE CONTRACTOR'S OPTION, APPROACH SLAB TRANSVERSE REINFORCEMENT MAY BE PLACED PARALLEL TO PAVING NOTCH. SPACING OF TRANSVERSE REINFORCEMENT IS MEASURED ALONG C ROADWAY.

NOTES:
THE DETAILS ON THIS SHEET ARE COPIED AND MODIFIED FROM CALTRANS STANDARD PLAN XS3-120, DATED JULY 2011.

SEAT TYPE ABUTMENT TIE DETAILS
(SEE NOTE 1)
3/4" = 1'-0"



MARK	DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

REGISTERED PROFESSIONAL ENGINEER
Q. NGUYEN
RCE C 71743 (EXP. 12-31-13)
JULY 16, 2013
DATE

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DRAWN BY: NL
CHECKED BY: GR
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Tel: (951) 687-1005

LA PATA AVENUE GAP CLOSURE
BRIDGE NO. 1

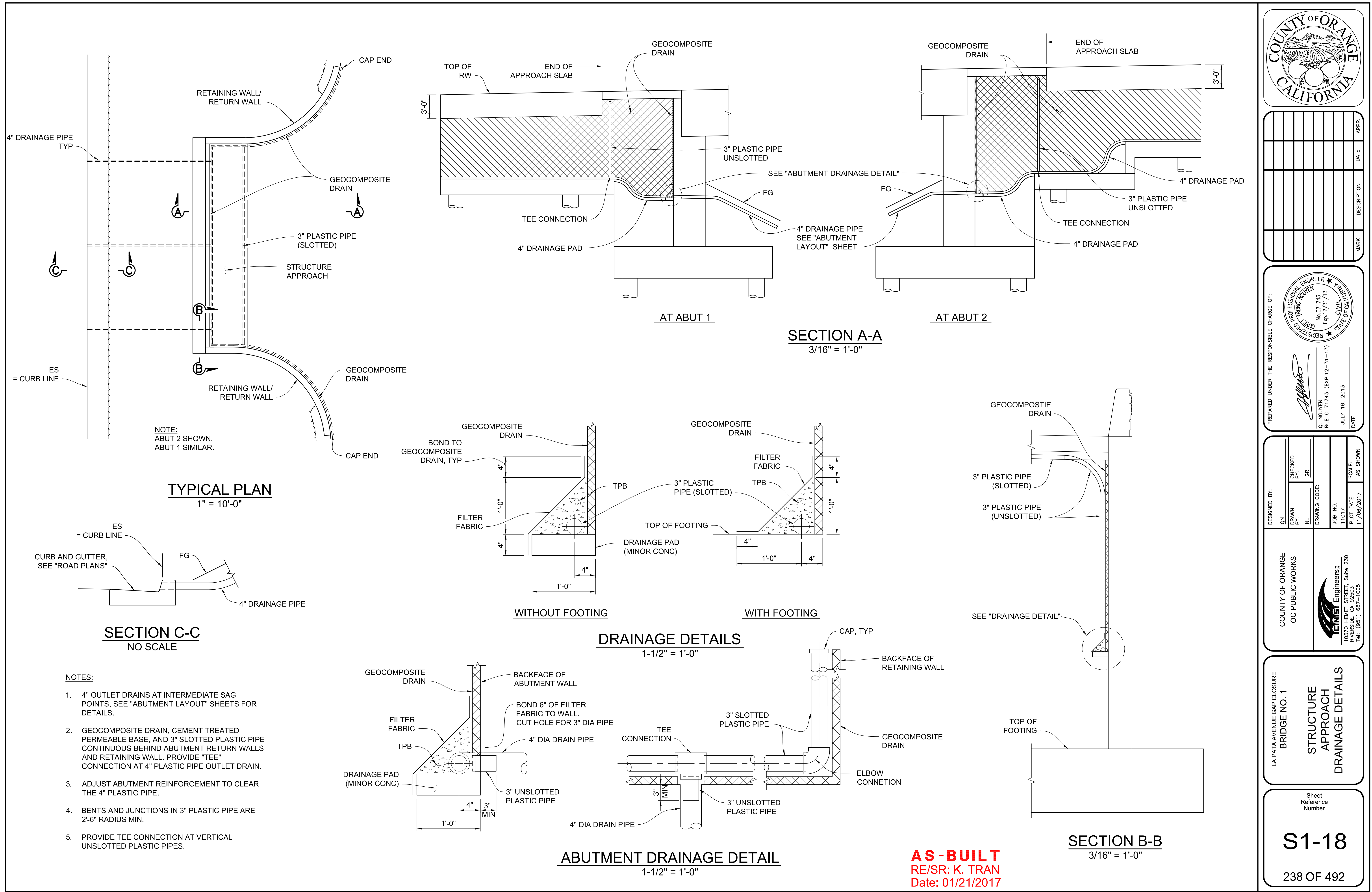
STRUCTURE
APPROACH
TYPE N(10S)

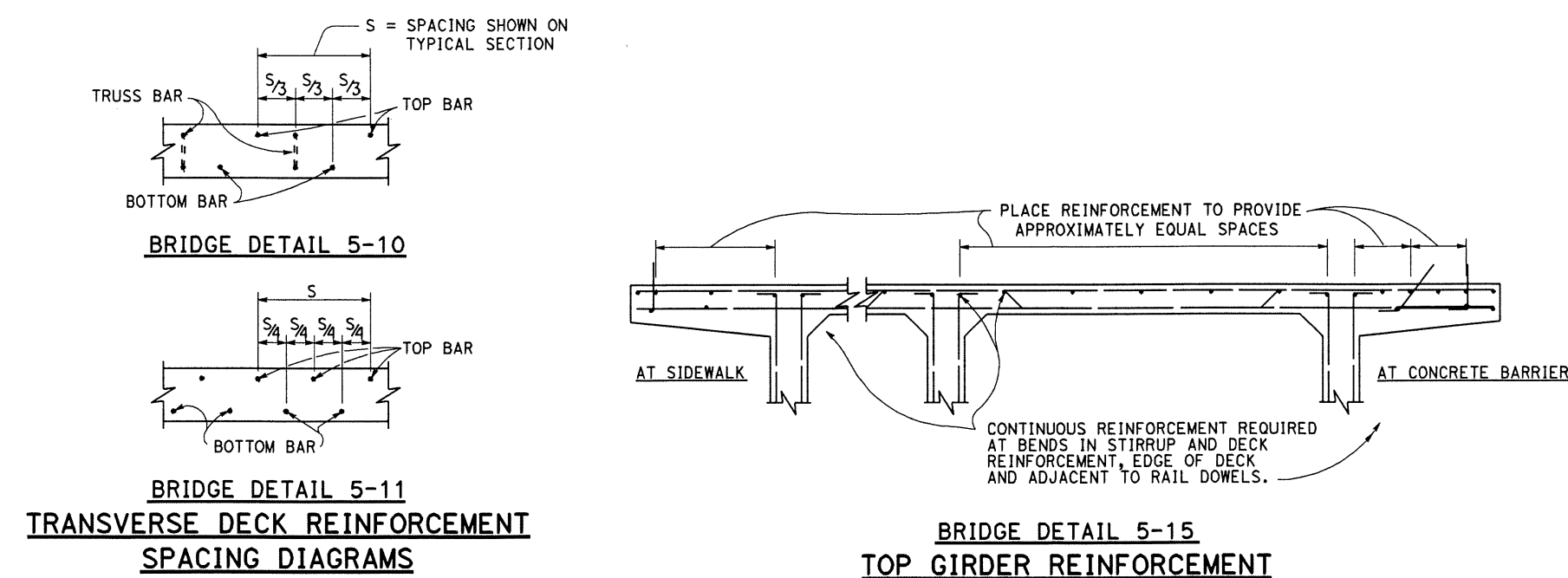
Sheet
Reference
Number

S1-17

237 OF 492

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Date: 01/21/2017



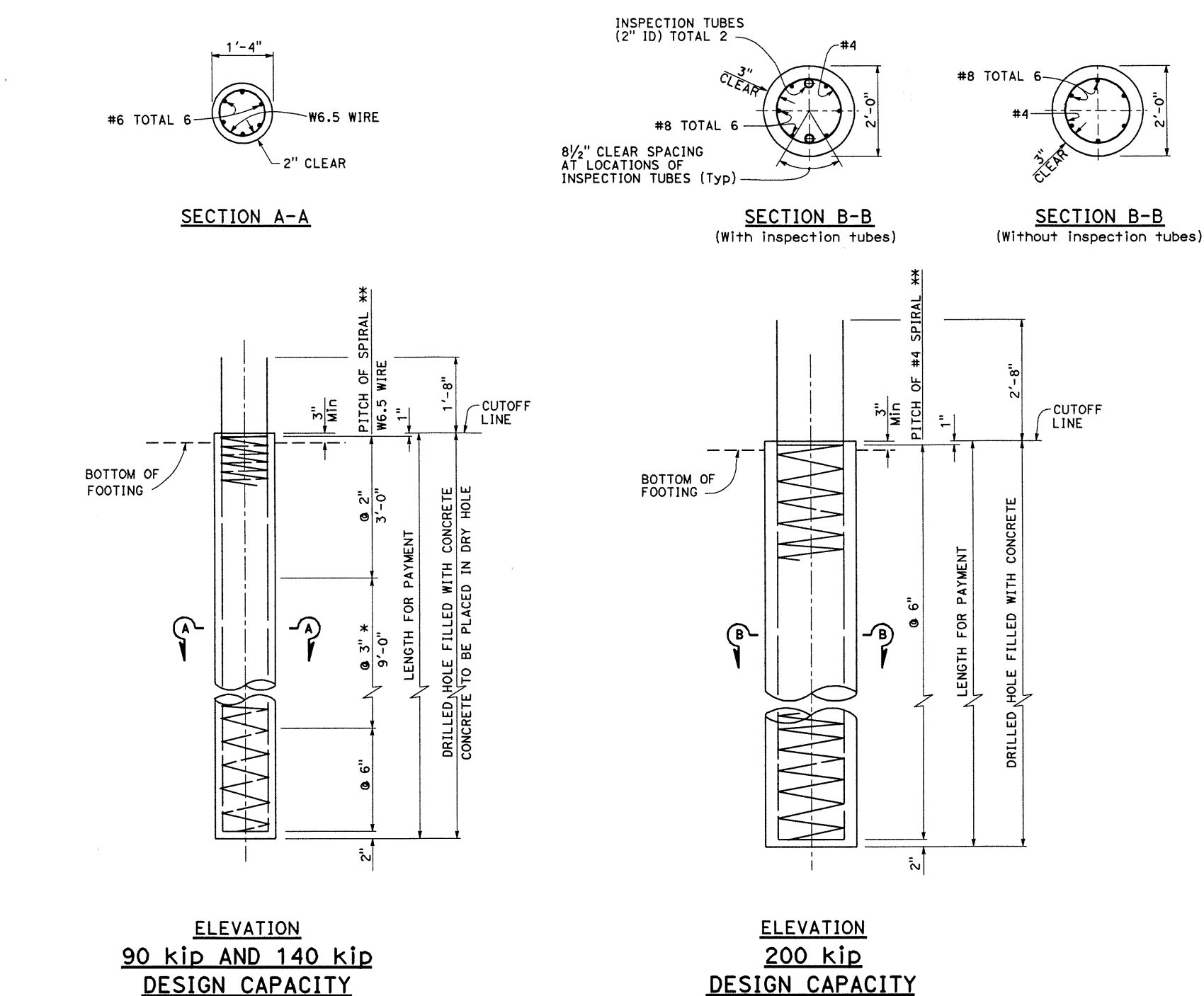


NOTES:

1. In simple spans, transverse joints are not permitted unless approved by the Engineer.
2. In continuous spans, transverse joints may be located at about the $\frac{1}{4}$ point of the span.
3. Reinforcing steel shall be continuous through all construction joints.
4. Longitudinal joints shall be located at the edge of a traffic lane unless otherwise permitted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
BRIDGE DETAILS
NO SCALE

B0-5



NOTES:

1. Reinforcement extending into footing shall be hooked as required to provide clearance to top of footing.
2. Lapped splices in spiral pile reinforcement shall be lapped at least 80 wire/bar diameters. Spiral pile reinforcement at splices and at ends shall be terminated with a 135° hook with a 6" tail hooked around a longitudinal bar.
3. Piles shall be extended only in accordance with details shown in the Project Plans.

DESIGN NOTES:

REINFORCED CONCRETE
 $f_y = 60,000 \text{ psi}$
 $f'_c = 4,000 \text{ psi}$

DESIGN CAPACITY

90 kip and 140 kip PILE

COMPRESSION:
140 kip (Service state)
280 kip (Nominal axial structural resistance)

56 kip (Service state)
140 kip (Nominal axial structural resistance)

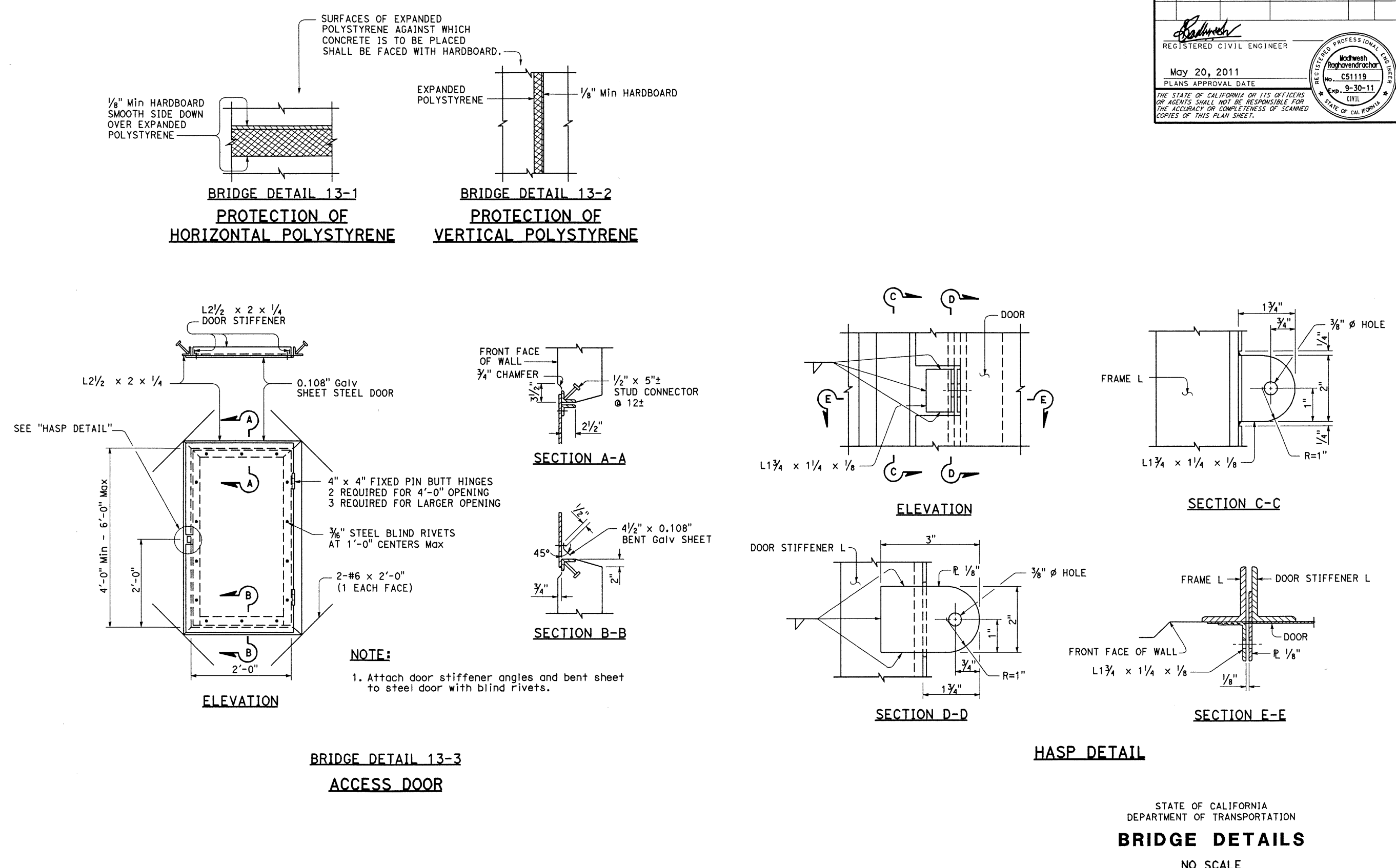
COMPRESSION:

200 kip (Service state)
400 kip (Nominal axial structural resistance)

TENSION:
80 kip (Service state)
200 kip (Nominal axial structural resistance)

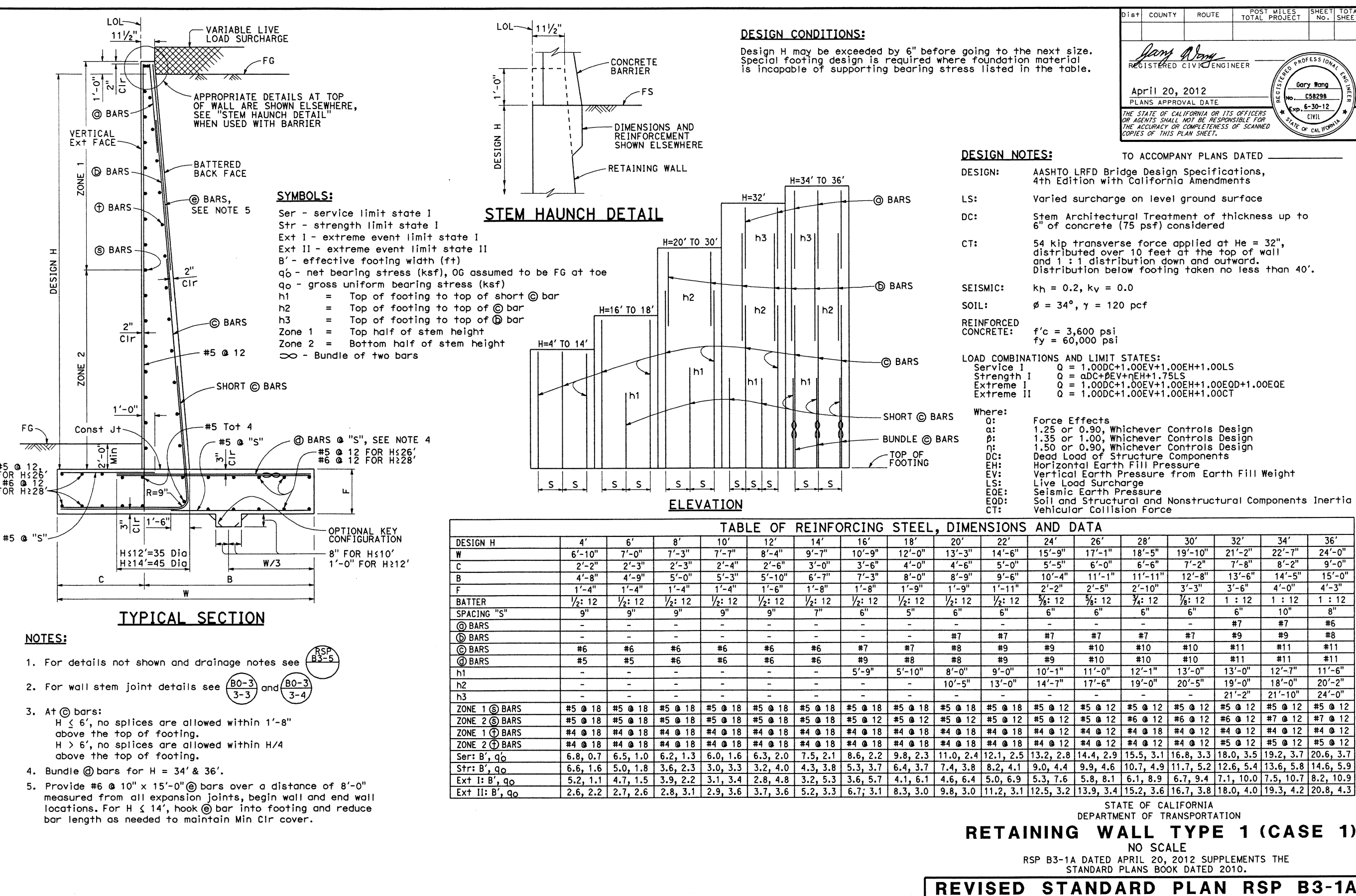
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
16" AND 24"
CAST-IN-DRILLED-HOLE
CONCRETE PILE
NO SCALE

B2-3



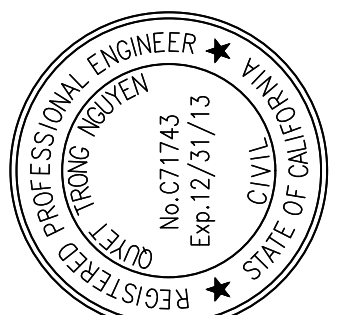
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
BRIDGE DETAILS
NO. SCALE

B0-13



REVISED STANDARD PLAN BSP B3-1A

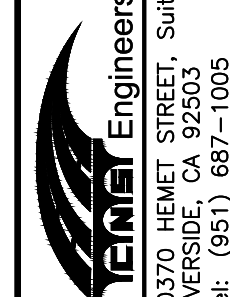
AS-BUILT
RE/SR: K. TRAN
Date: 01/21/2011

[illegible]

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

J. NGUYEN
CASE C 71743 (EXP.12-31-13)
JULY 16, 2013
DATE

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Q.N.	
DRAWN BY:	CHECKED BY:
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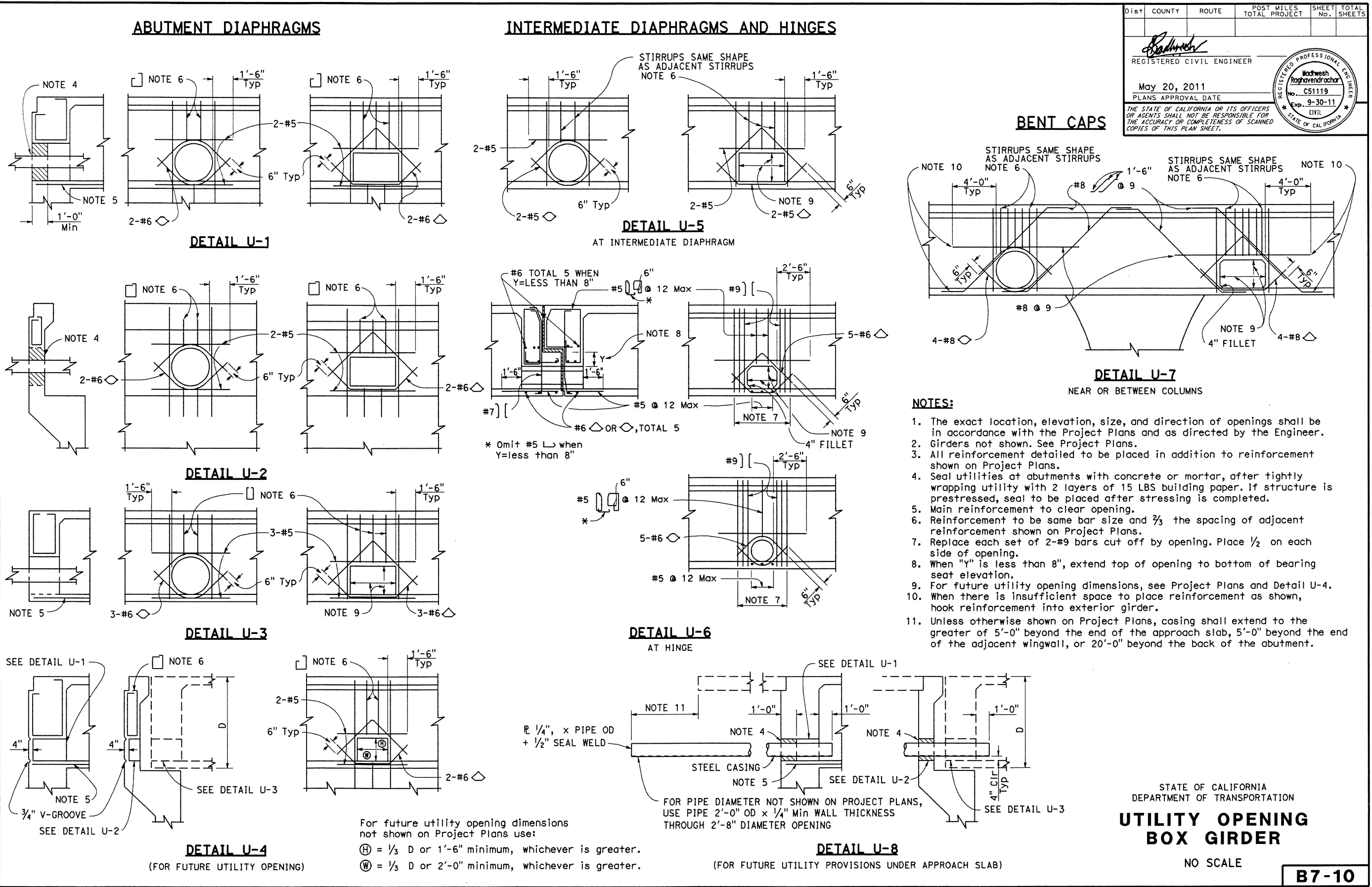
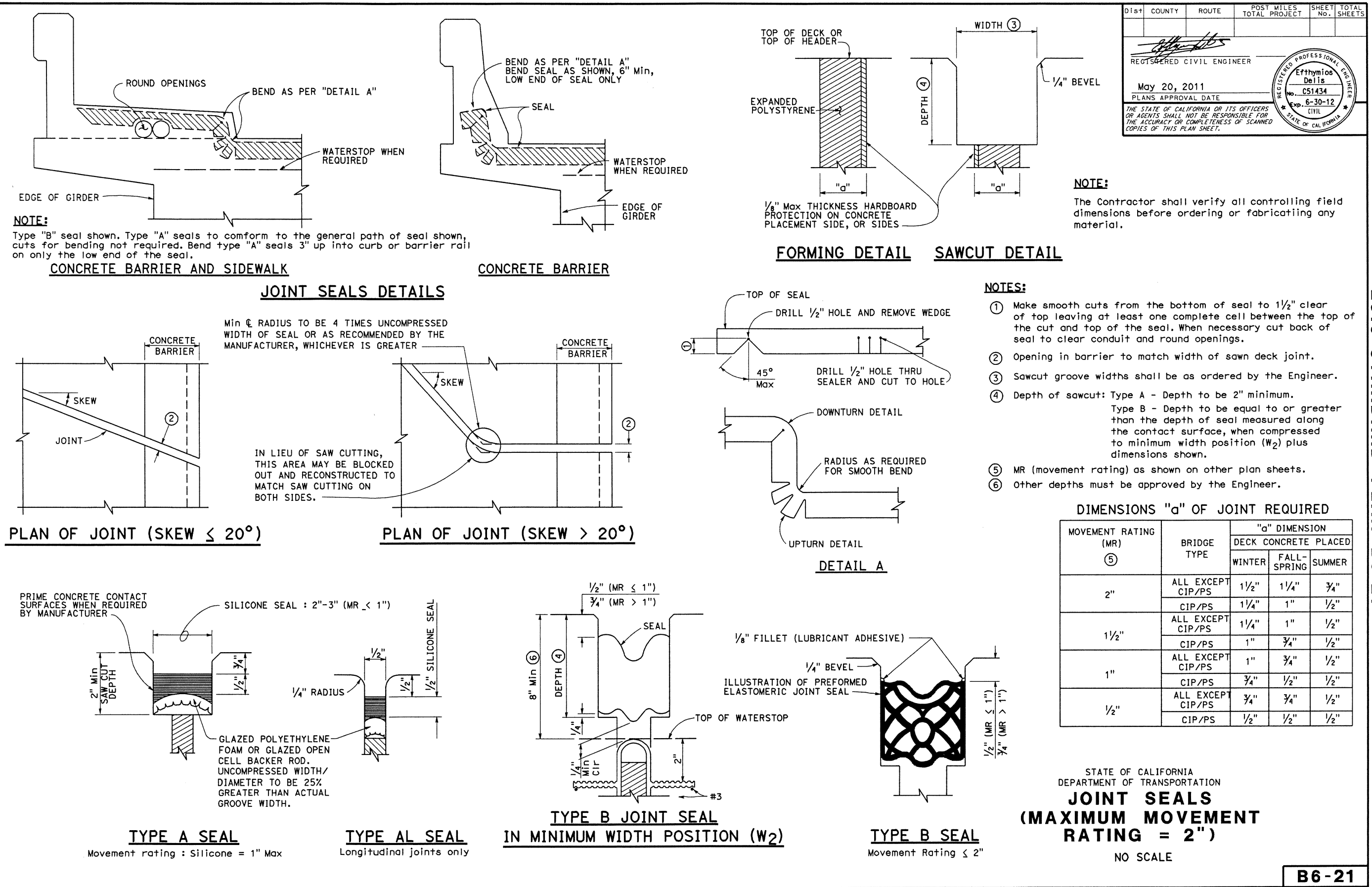
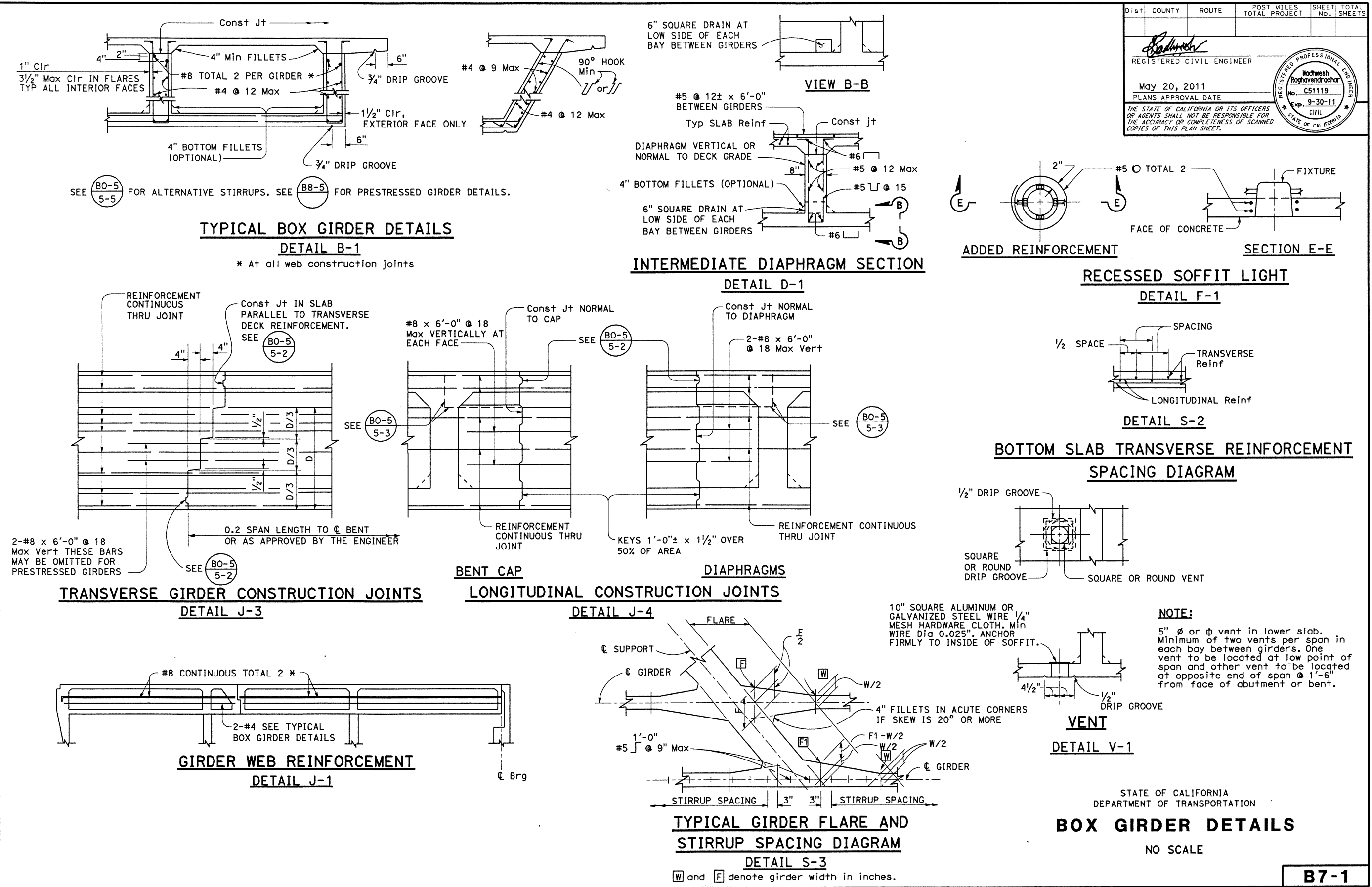
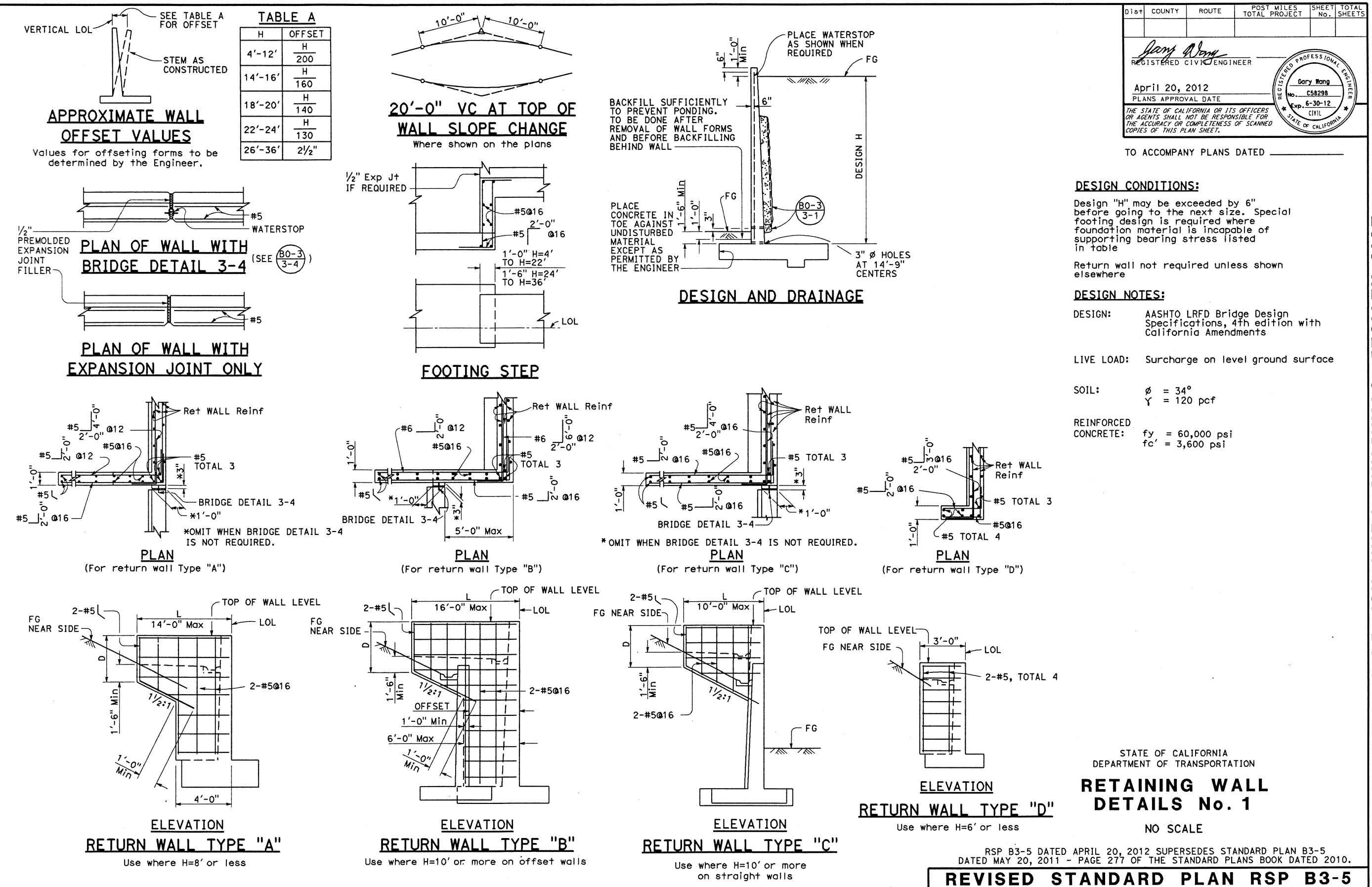
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CALTRANS STANDARD
PLANS NO. 3Sheet
Reference
Number

S1-21

241 OF 492



COUNTY OF ORANGE
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JOB NO. **11017**

SCALE: **AS SHOWN**

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LA PATA AVENUE GAP CLOSURE
BRIDGE NO. 1

CALTRANS STANDARD PLANS NO. 4

Sheet Reference Number

S1-22

242 OF 492

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Date: 01/21/2017

