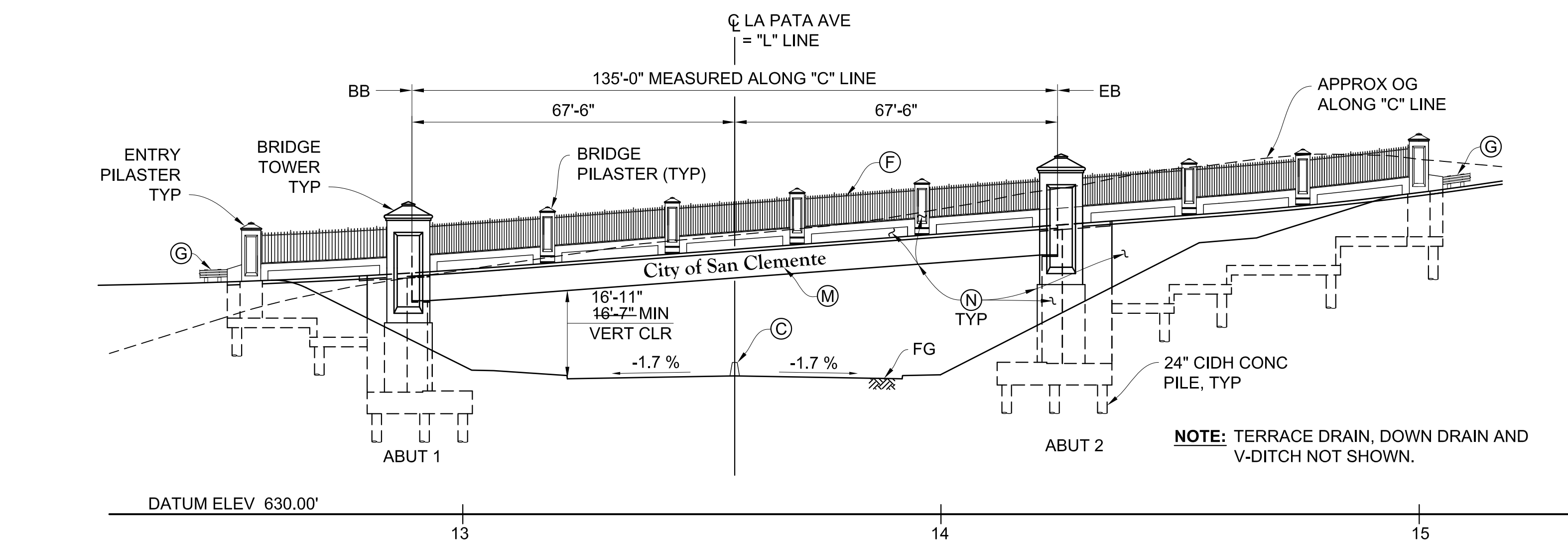
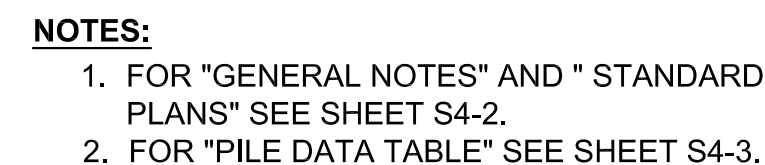


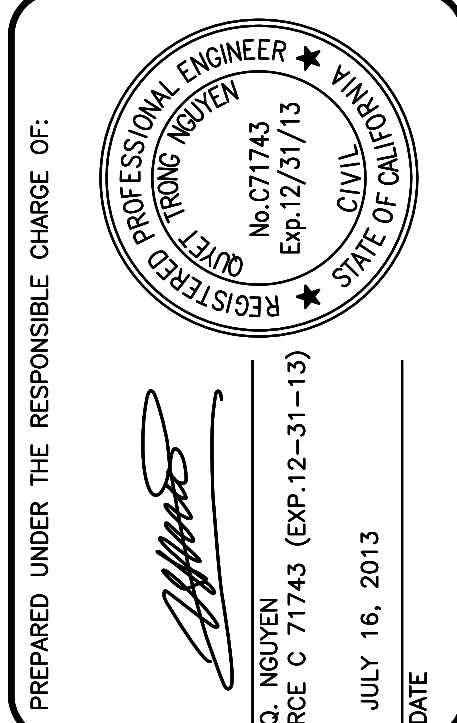
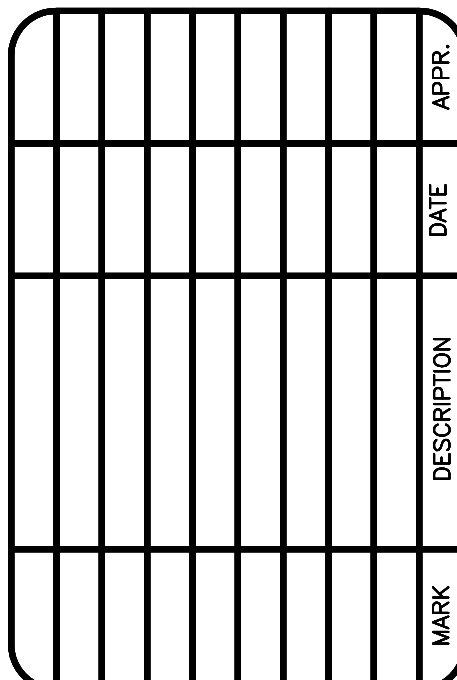
	INDICATES DIRECTION OF TRAFFIC
	INDICATES REVERSIBLE TRAFFIC
	INDICATES POINT OF MINIMUM VERTICAL CLEARANCE

- (A) PAINT "BR NO. ---"
- (B) PAINT "BRIDGE NAME"
- (C) CONCRETE BARRIER, TYPE 60, SEE
"ROAD PLANS", SHEET ST-05
- (D) CONCRETE BARRIER, TYPE 742 (MOD)
- (E) STRUCTURE APPROACH TYPE N (10S)
- (F) PICKET FENCE
- (G) MBGR, SEE "ROAD PLANS", SHEET ST-05
- (H) TERRACE DRAIN SEE "ROAD PLANS", SHEET GR-05
- (K) DOWN DRAIN SEE "ROAD PLANS", SHEET GR-05
- (L) V-DITCH SEE "ROAD PLANS", SHEET GR-05
- (M) PAINT RECESSED ARCHITECTURAL LETTERS
(NORTH FACE ONLY)
- (N) STAINED CONC SURFACE
- (P) FUTURE LIGHTING CONDUIT



SHEET NO.	SHEET TITLE
S4-1	GENERAL PLAN
S4-2	DECK CONTOURS
S4-3	FOUNDATION PLAN
S4-4	ABUTMENT 1 LAYOUT
S4-5	ABUTMENT 2 LAYOUT
S4-6	ABUTMENT DETAILS NO. 1
S4-7	ABUTMENT DETAILS NO. 2
S4-8	ABUTMENT DETAILS NO. 3
S4-9	ABUTMENT DETAILS NO. 4
S4-10	ABUTMENT DETAILS NO. 5
S4-11	ABUTMENT DETAILS NO. 6
S4-12	TYPICAL SECTION
S4-13	GIRDER LAYOUT
S4-14	ADDITIONAL GIRDER REINFORCEMENT
S4-15	ARCHITECTURAL TREATMENT NO. 1
S4-16	ARCHITECTURAL TREATMENT NO. 2
S4-17	ARCHITECTURAL TREATMENT NO. 3
S4-18	PICKET FENCE DETAILS
S4-19	STRUCTURE APPROACH TYPE N (10S)
S4-20	STRUCTURE APPROACH DRAINAGE DETAILS
S4-21	STANDARD PLANS NO. 1
S4-22	STANDARD PLANS NO. 2
S4-23	STANDARD PLANS NO. 3
S4-24	STANDARD PLANS NO. 4
S4-25	STANDARD PLANS NO. 5
S4-26	LOG OF TEST BORINGS

AS-BUILT

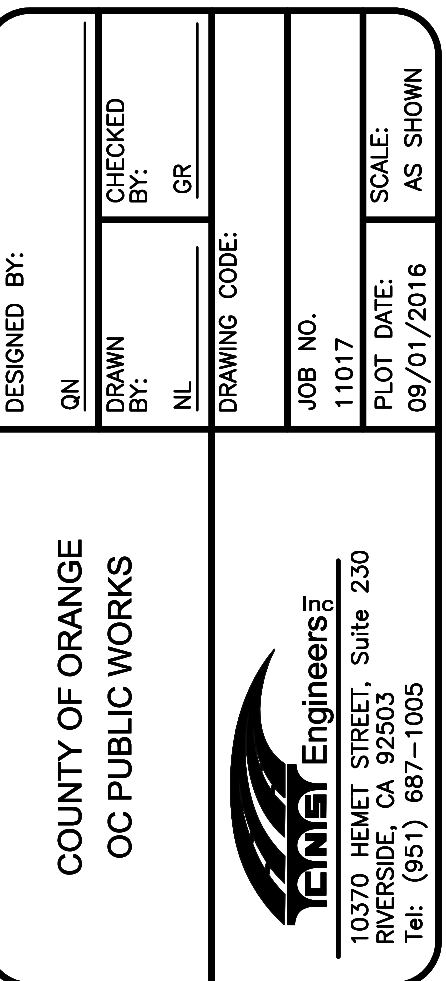
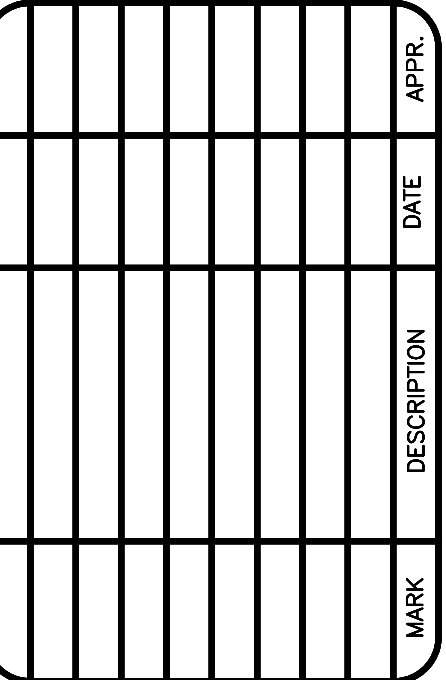


COUNTY OF ORANGE OC PUBLIC WORKS	DESIGNED BY:		
	Q/N		
	DRAWN BY:	CHECKED BY:	
	N/L	GR	
	DRAWING CODE:		
 10370 HENET STREET, Suite 230 RIVERSIDE, CA 92503 Tel: (951) 687-1005	JOB NO.		
	11017		
	PLOT DATE:	SCALE:	
	09/15/2016	AS SHOWN	

GENERAL PLAN

S4-1

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AS-BUILT

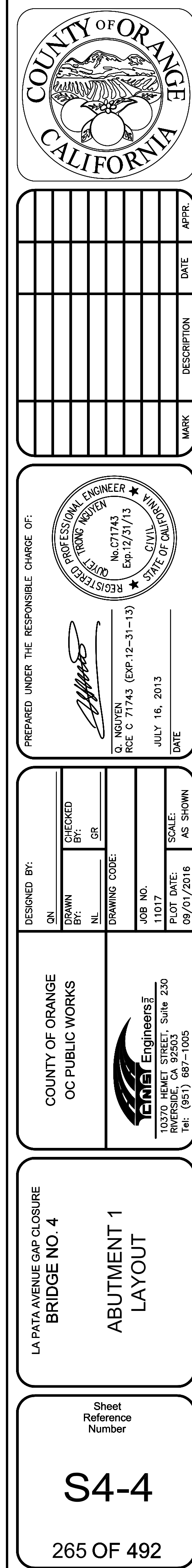
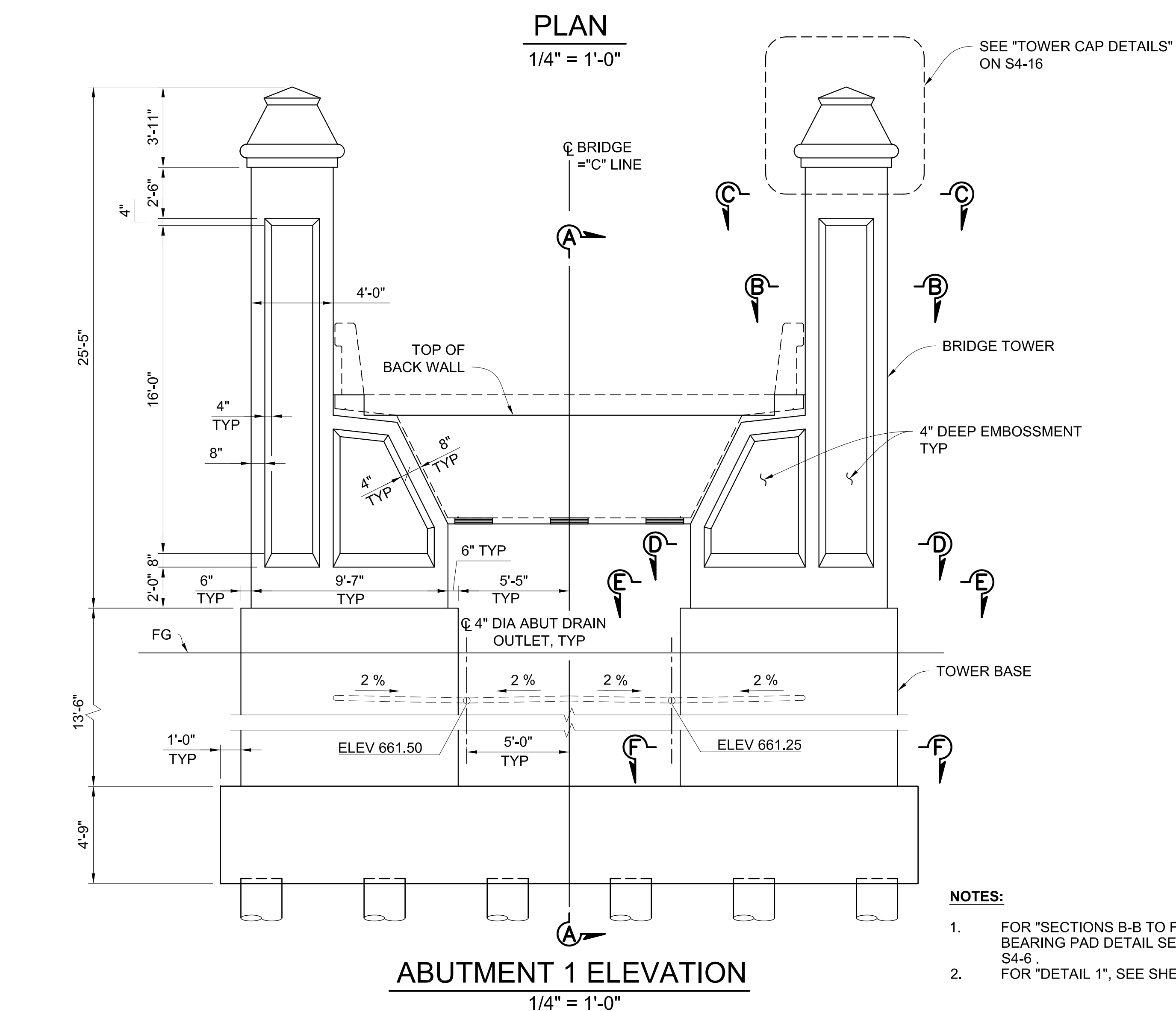


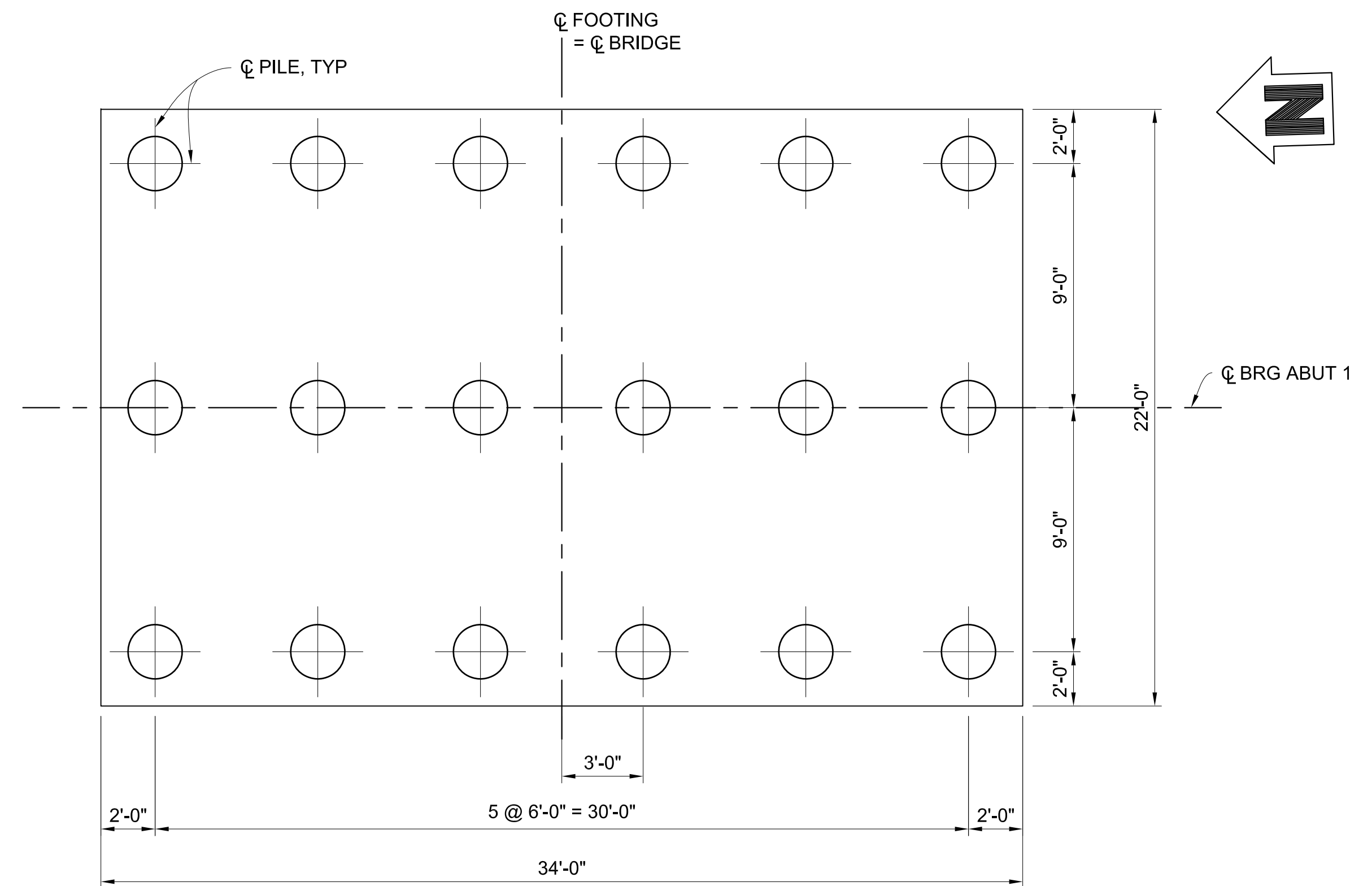


NOTE: FOR INFORMATION NOT SHOWN, SEE

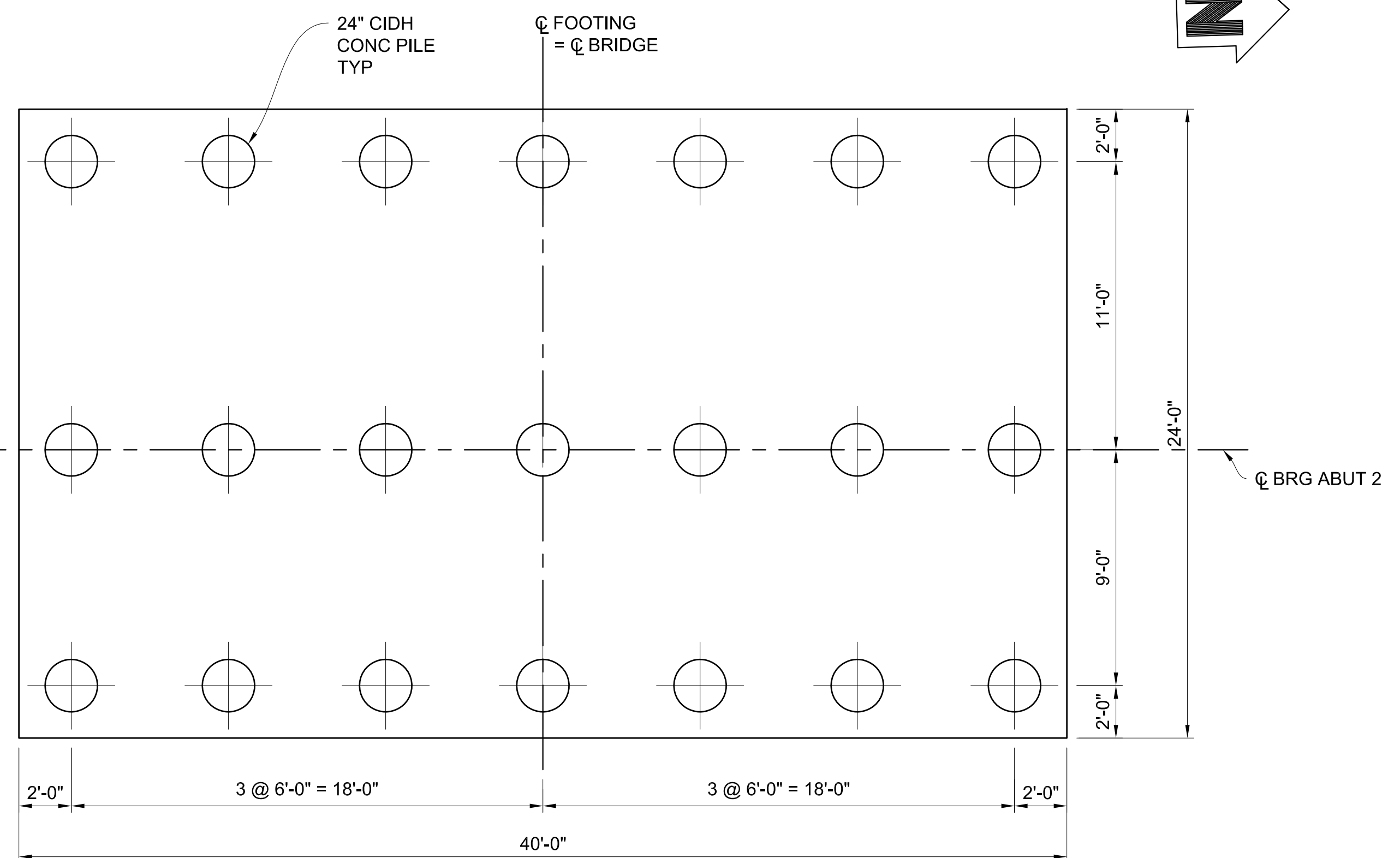
$$\frac{3}{4}'' = 1'-0''$$

264 OF 492



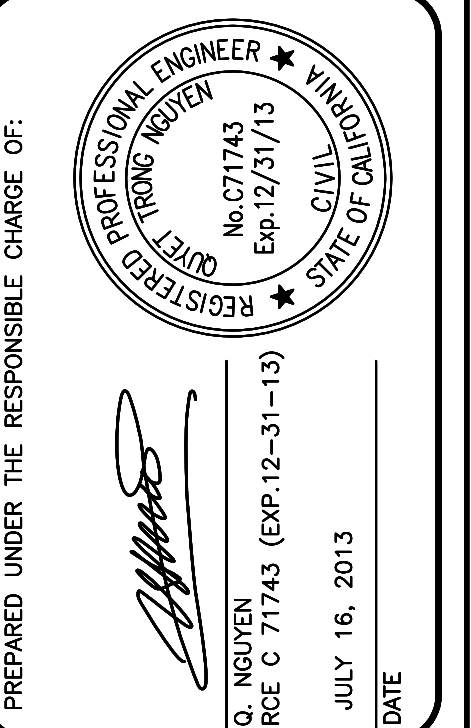


AS-BUILT



ABUTMENT 2 ELEVATION

-

[illegible]

COUNTY OF ORANGE OC PUBLIC WORKS	QIN	CHECKED	DRAWING CODE:	JOB NO. 11017	SCALE: PLOT DATE: 09/01/2016	AS SHOWN
	DRAWN BY: NL	GR				

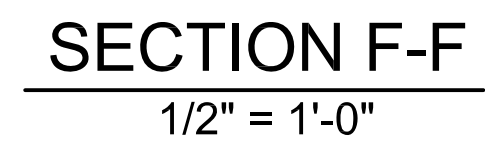
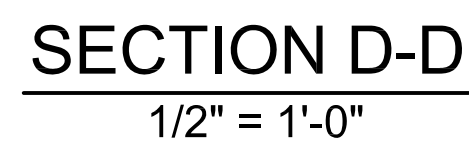
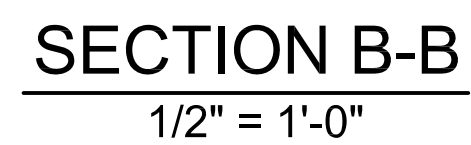
**LA PATA AVENUE GAP CLOSURE
BRIDGE NO. 4**

ABOUT 2 LAYOUT

Sheet
Reference
Number

S4-5

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SECTION C-C

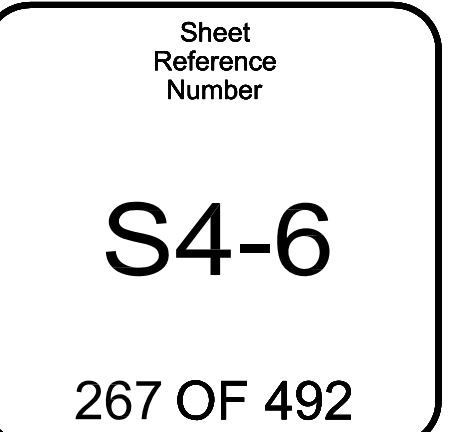
1/2" = 1'-0"



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

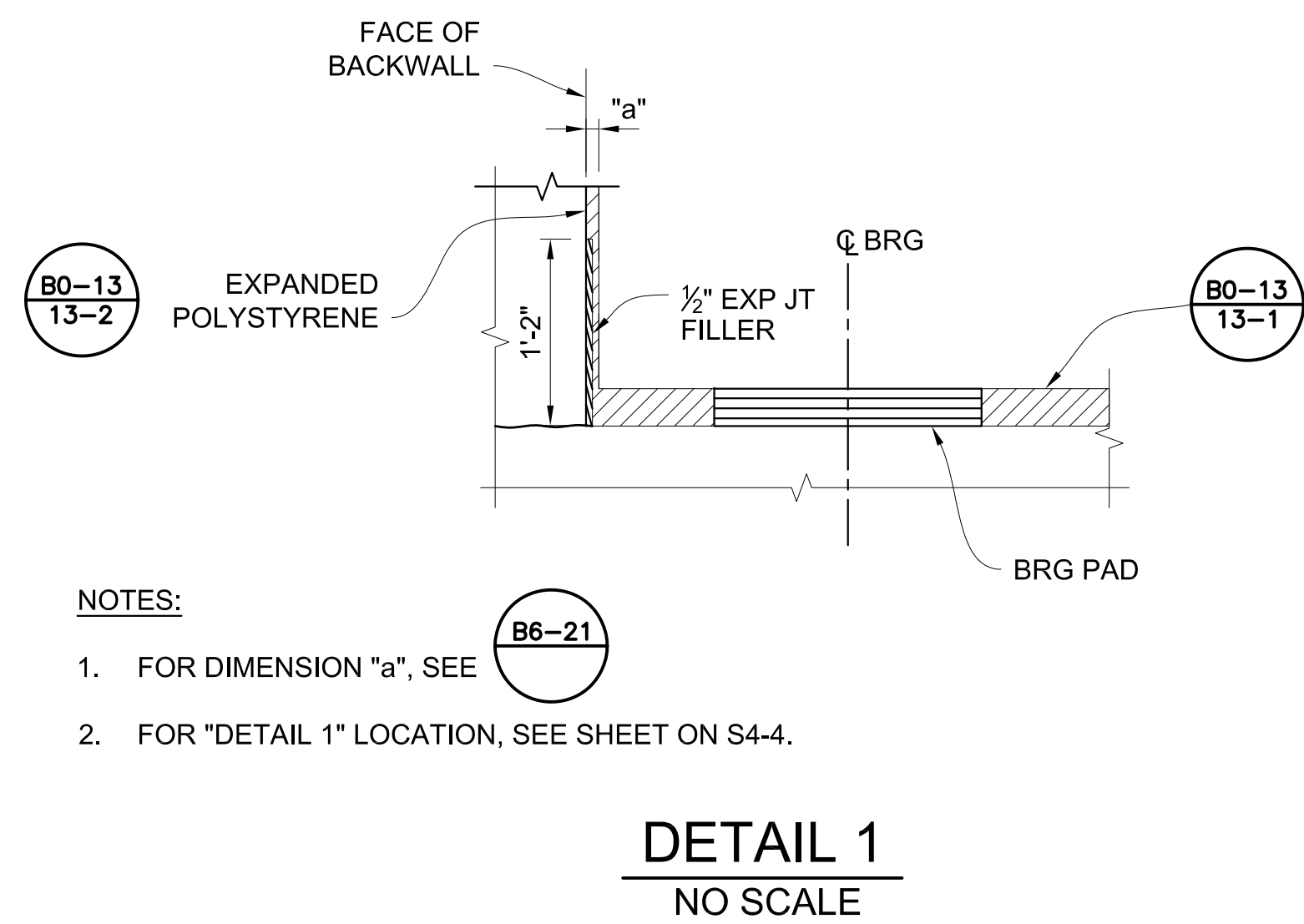
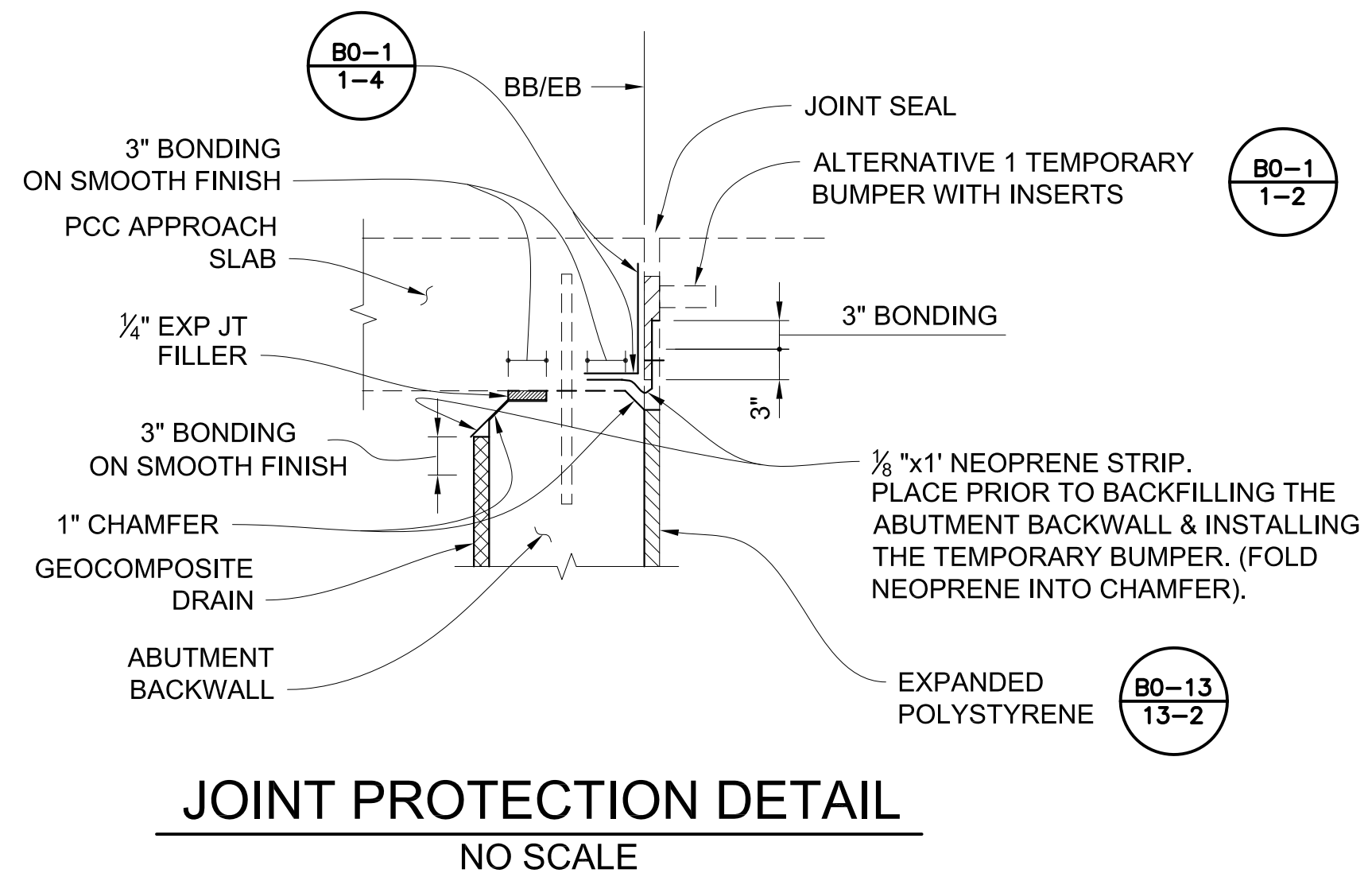
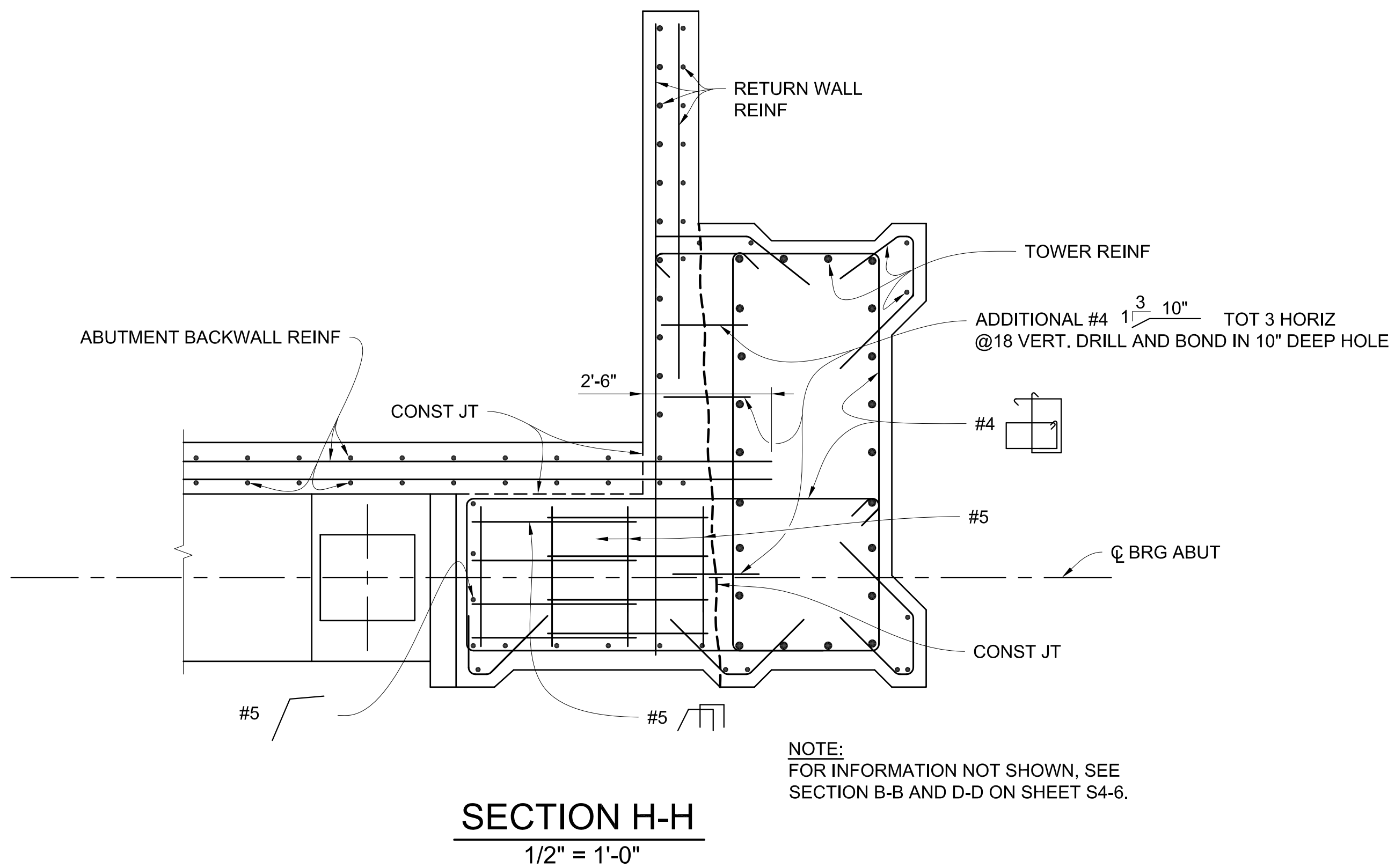
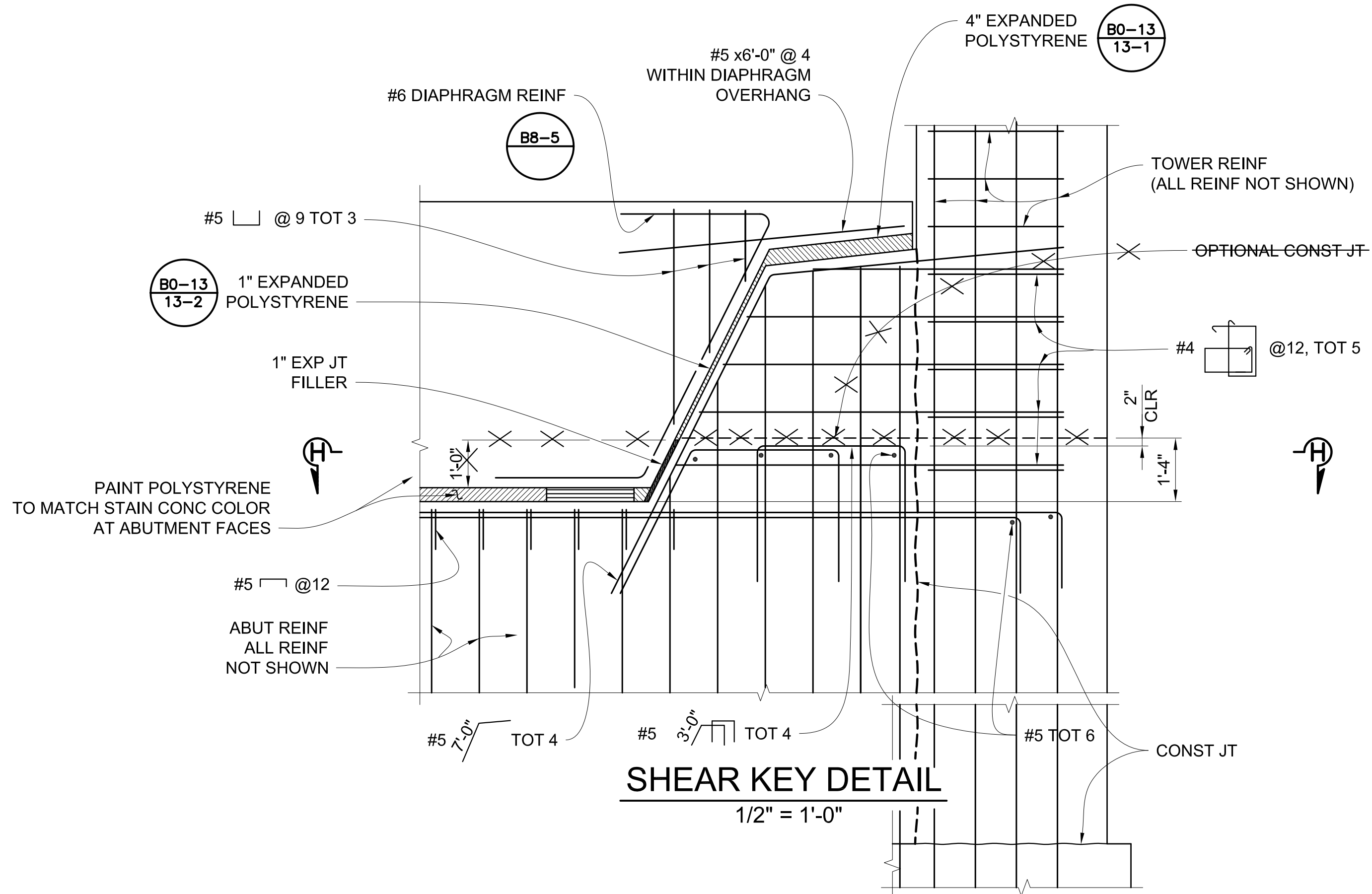


AS-BUILT



NOTE: FOR LOCATIONS OF "SECTIONS B-B, C-C, D-D, E-E AND F-F" SEE SHEET S4-5 AND S4-6.

W:\11017 La Pata Ave Gap Closure Supports\As-builts\Bridge No. 4\20160831\S4-6_7 - Abutment Details.DWG, Layout: Abutment Details No. 1, Aug 25 2016 9:36am



- NOTES:
1. FOR DIMENSION "a", SEE
 2. FOR "DETAIL 1" LOCATION, SEE SHEET ON S4-4.



MARK	DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

REGISTERED PROFESSIONAL ENGINEER
 COUNTY OF ORANGE
 No. C71743
 Exp. 12/31/15
 CIVIL
 Q. NGUYEN
 RCE C 71743 (EXP-12-31-15)
 JULY 16, 2013
 DATE

DESIGNED BY: ON
 DRAWN BY: NL
 CHECKED BY: GR
 DRAWING CODE: 11017
 JOB NO. 11017
 PLOT DATE: 09/01/2016
 SCALE: AS SHOWN

COUNTY OF ORANGE
 OC PUBLIC WORKS

ENGINEERS
 10370 HEWITT STREET, Suite 230
 RIVERSIDE, CA 92503
 Tel: (951) 687-1005

LA PATA AVENUE GAP CLOSURE
 BRIDGE NO. 4

ABUTMENT
 DETAILS NO. 2

Sheet
 Reference
 Number

S4-7

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AS-BUILT

NOTE: FOR "SECTIONS K-K, L-L, M-M, AND N-N", SEE SHEET S4-11.

PICKET FENCE & CONC BARRIER NOT SHOWN

30'-0" MEASURED ALONG RW LOL

18'-0" DESIGN H = 10'

12'-0" DESIGN H = 14'

8'-4 1/2" RETURN WALL

6" MIN

678.01 ELEV 678.00

2'-8" 4'-8" PILASTER BASE

TOP OF WALL = FG

678.76 ELEV 678.72

679.33 ELEV 679.24

APPROX OG

WATER STOP (EXTEND 6" ABOVE TOP OF WALL)

WEEP HOLE

WEAKENED PLANE

2'-0" TYP

FOOTING STEP

24" CIDH CONC PILE, TYP (ALL PILES NOT SHOWN, SEE SHEET S4-3 FOR PILE HEAD DETAILS)

EXP JT

BACK FACE OF ABUT BACKWALL

FG

DEVELOPED ELEVATION

ABUT 1 NORTHERLY RETAINING WALL

1/4" = 1'-0"

END RW

EC 11.42' RT. "C" 12+55.20

1/4" = 1'-0"



CL BRG ABUT 1

BACK FACE OF ABUT BACKWALL

8'-4 1/2" RETURN WALL

6" MIN

30'-0" MEASURED ALONG RW LOL

12'-0" DESIGN H = 14'

18'-0" DESIGN H = 10'

679.20 ELEV 679.24

678.68 ELEV 678.69

TOP OF WALL = FG

4'-8" PILASTER BASE

2'-8"

678.05 ELEV 678.00

WATER STOP (EXTEND 6" ABOVE TOP OF WALL)

WEEP HOLE

APPROX OG

WEAKENED PLANE

1'-0"

B0-3 3-2

FOOTING STEP

B3-5

EXP JT

B0-3 3-4

B2-3

24" CIDH CONC PILE, TYP (ALL PILES NOT SHOWN, SEE SHEET S4-3 FOR PILE HEAD DETAILS)

2'-0" TYP

SIMILAR

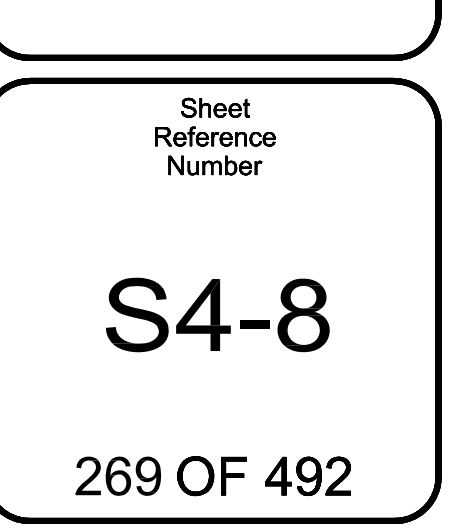
PICKET FENCE & CONC BARRIER NOT SHOWN

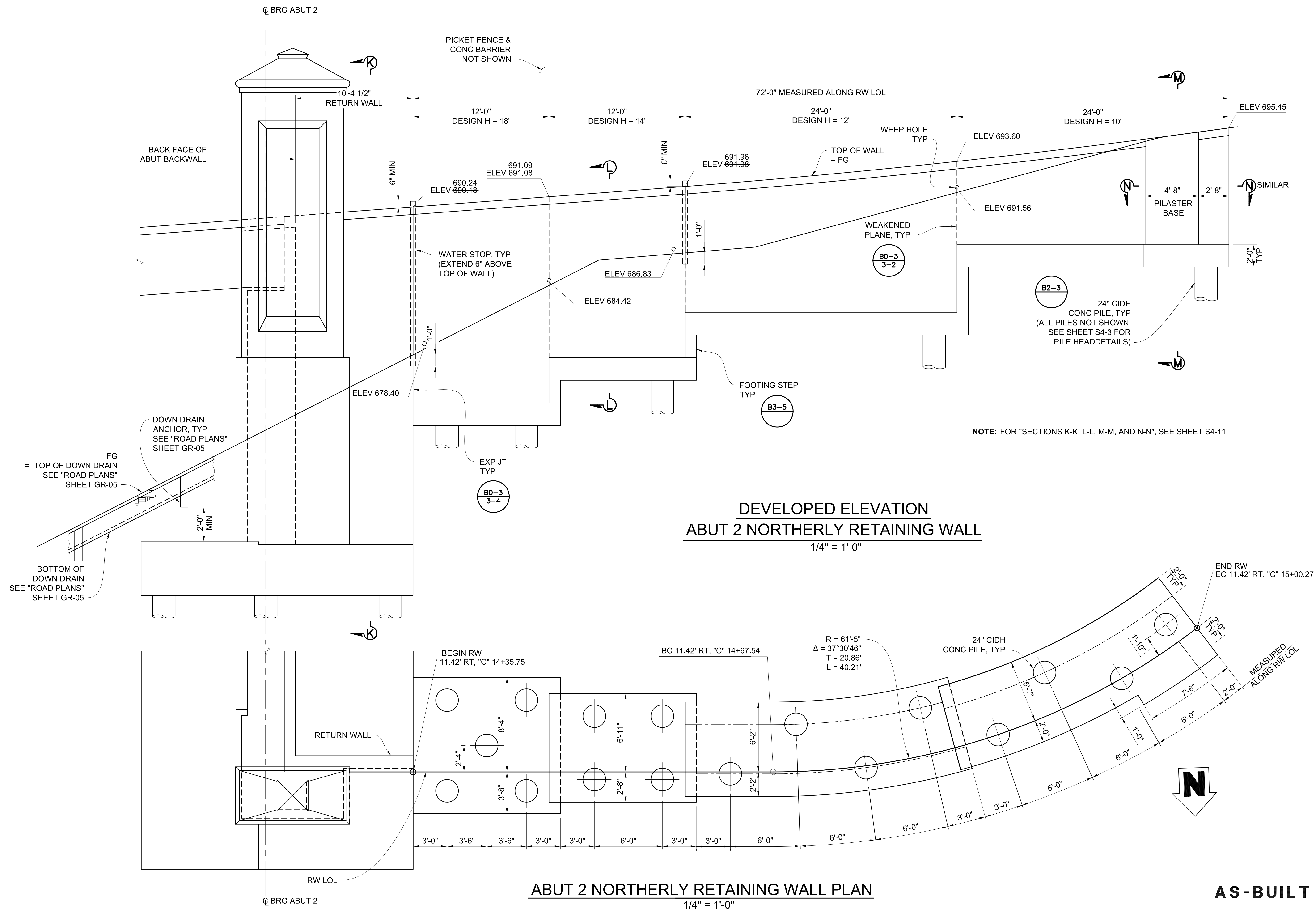
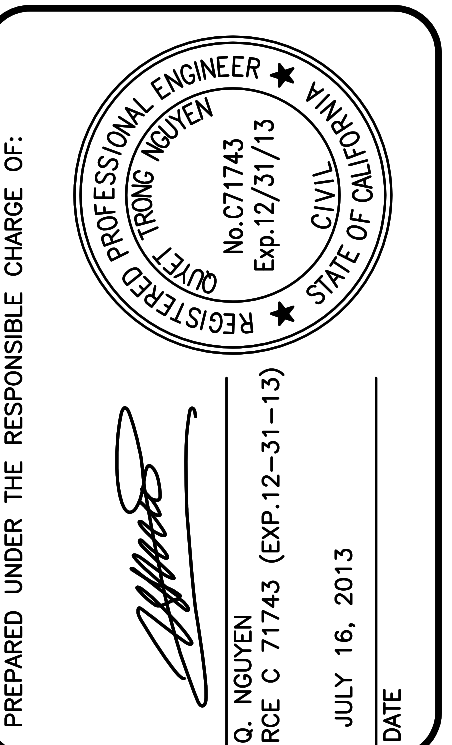
DEVELOPED ELEVATION

ABUT 1 SOUTHERLY RETAINING WALL

1/4" = 1'-0"

1/4" = 1'-0"



[illegible]

COUNTY OF ORANGE OC PUBLIC WORKS	 10370 HENET STREET, Suite 230 PLEASANT HILLS, CA 92673 Tel: (951) 687-1005	DESIGNED BY:	Q/N	
		DRAWN BY:	CHECKED BY:	
		N/L	GR	
		DRAWING CODE:		
		JOB NO.		
		11017		
		PILOT DATE:	SCALE:	
		09/01/2016	AS SHOWN	

LA PATA AVENUE GAP CLOSURE
BRIDGE NO. 4

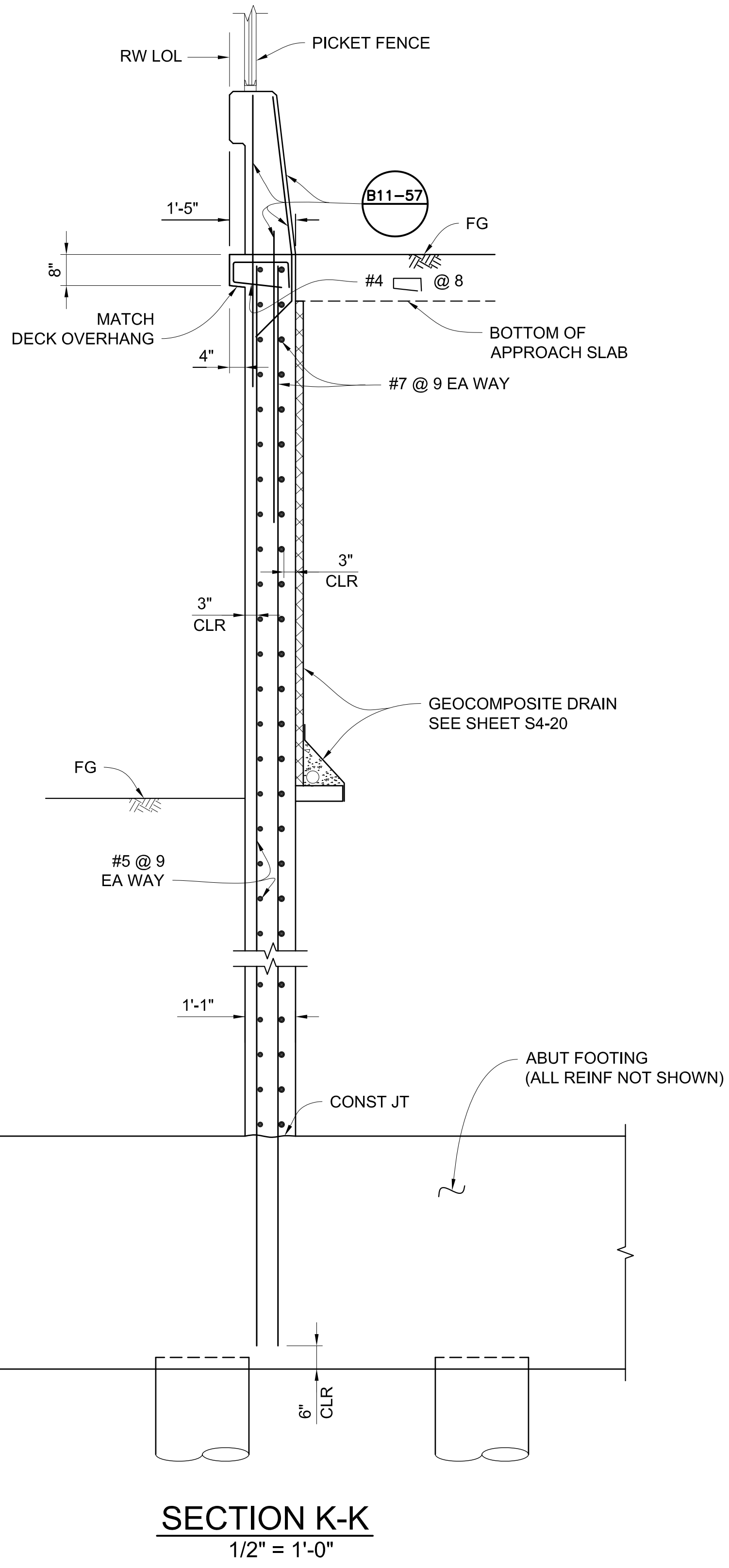
ABUTMENT
DETAILS NO. 4

Sheet
Reference
Number

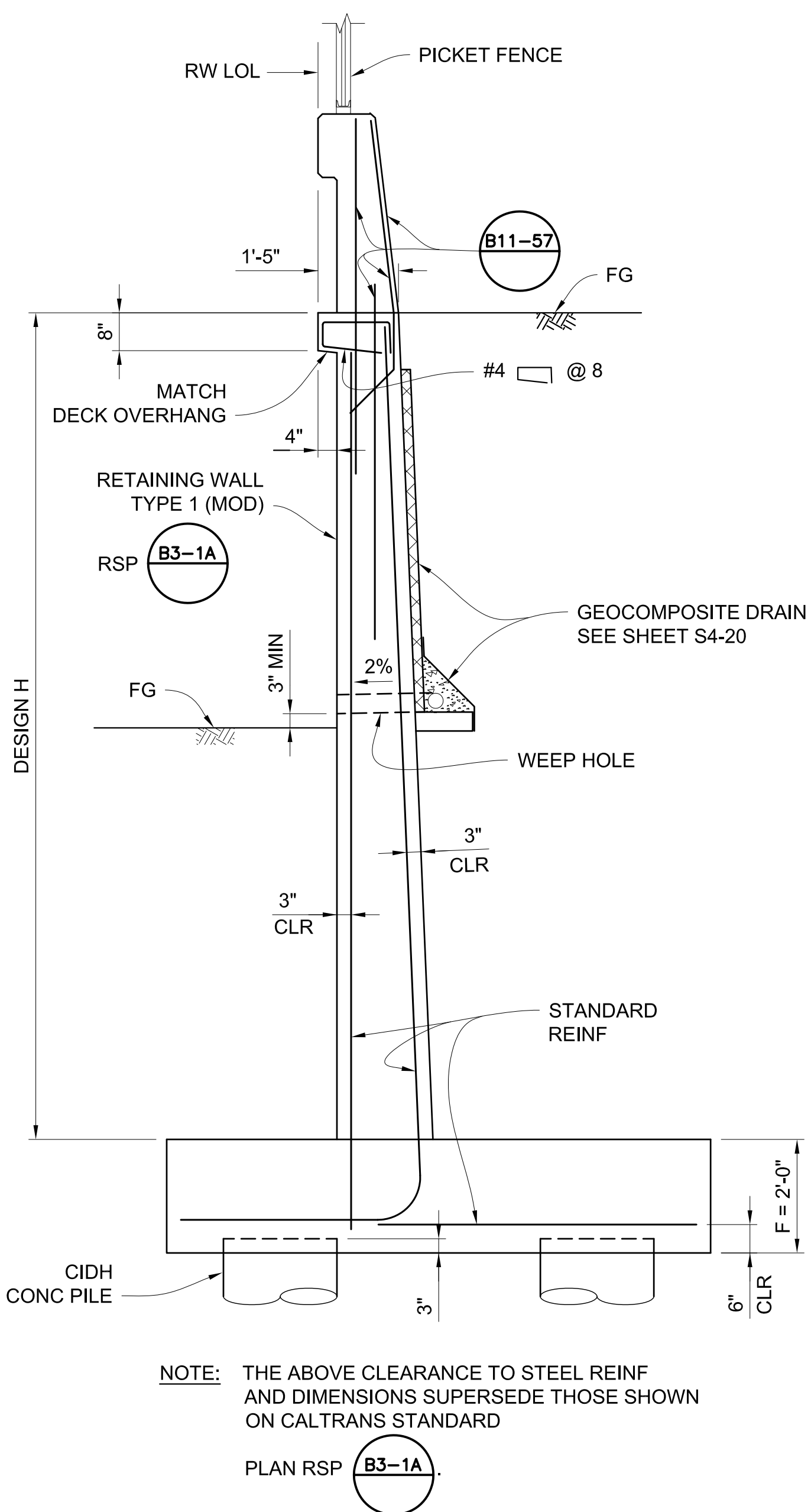
S4-9

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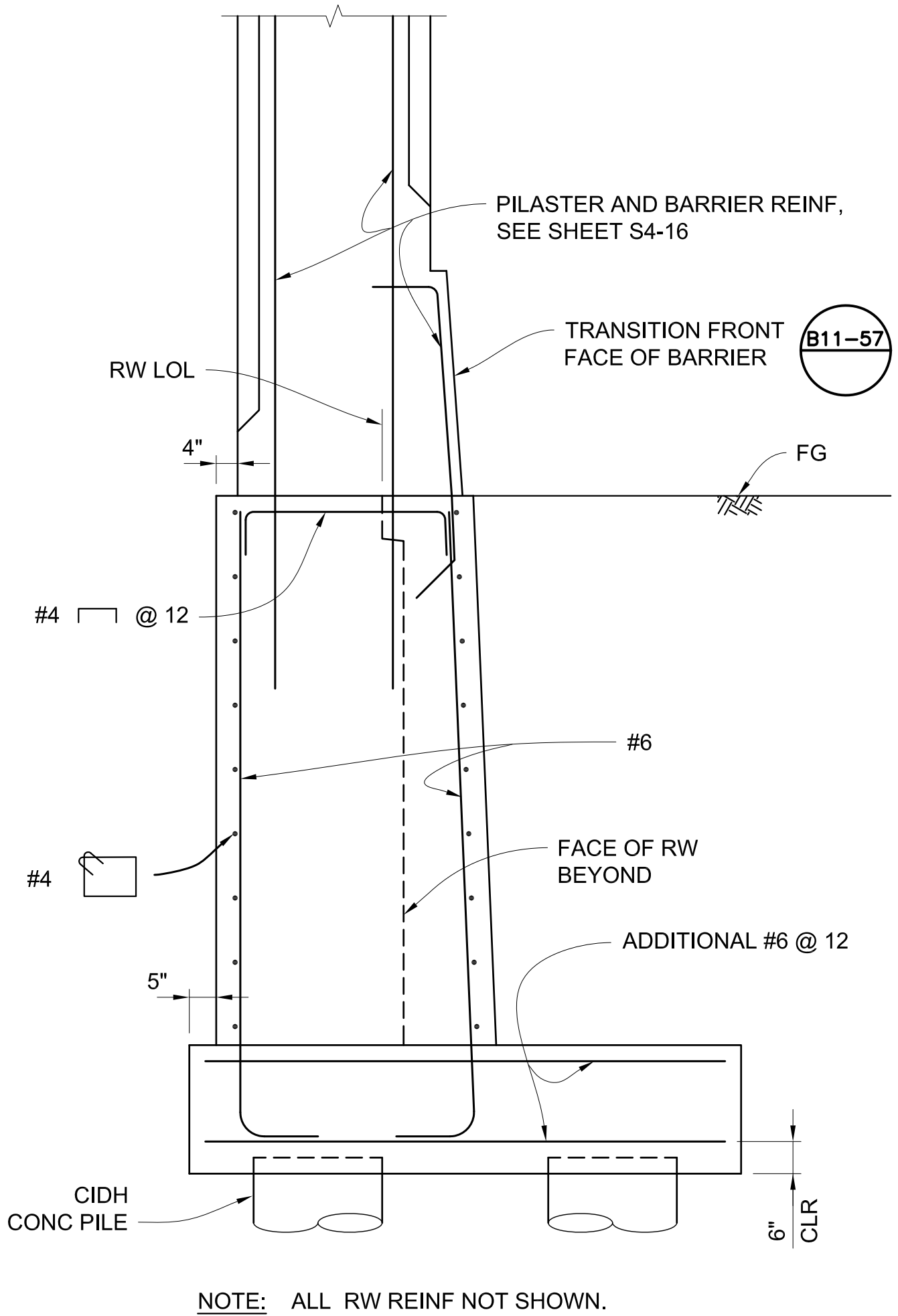
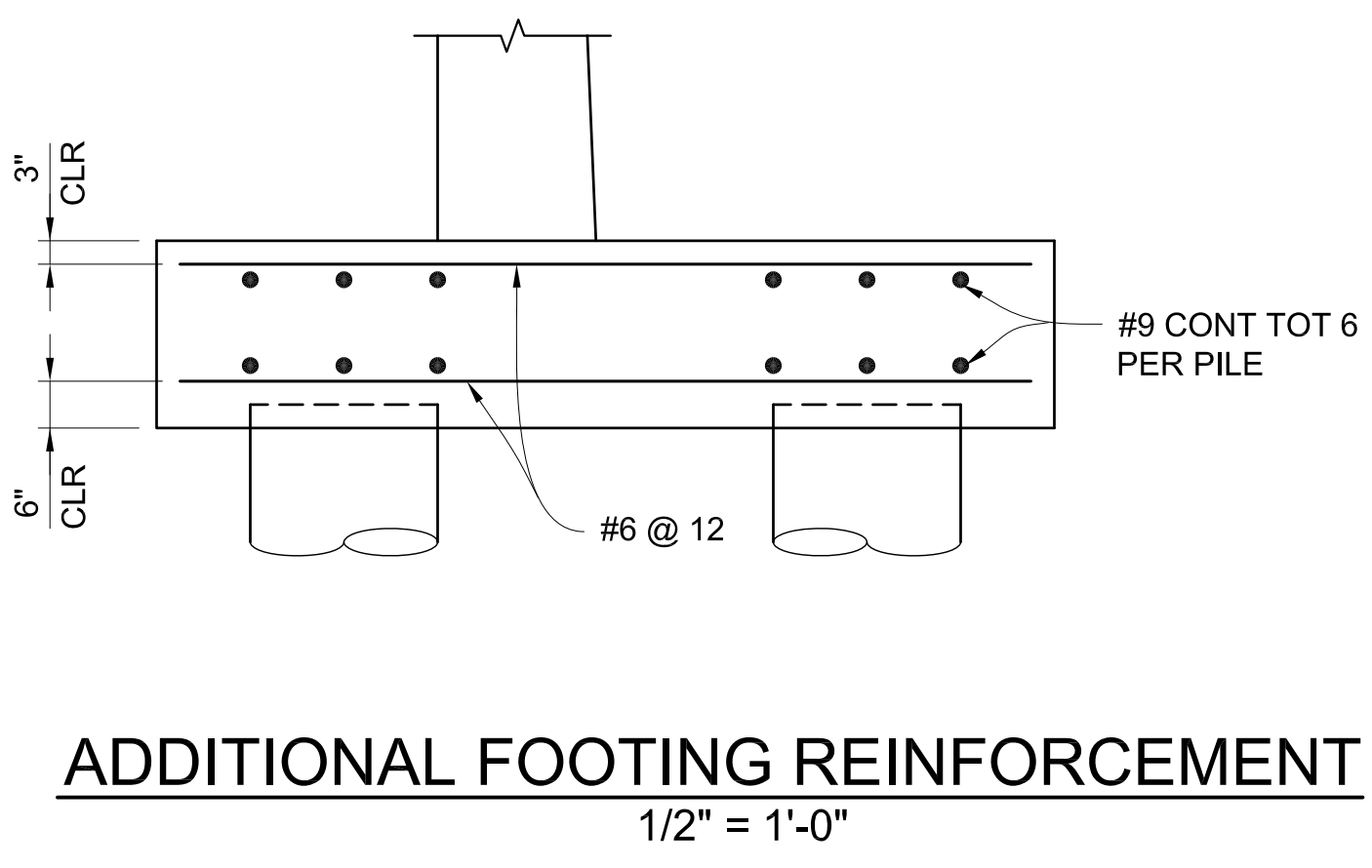
##\11017 La Pata Ave Gap Closure\Construction Supports\As-builts\Bridge No. 4\20160831\S4-8_11 - Retaining Walls.dwg, Layout: Abut 2 N RW, Aug 24 2016 3:27pm



NOTE: FOR LOCATIONS OF "SECTIONS K-K, L-L, M-M AND N-N", SEE SHEETS S4-8 TO S4-10.

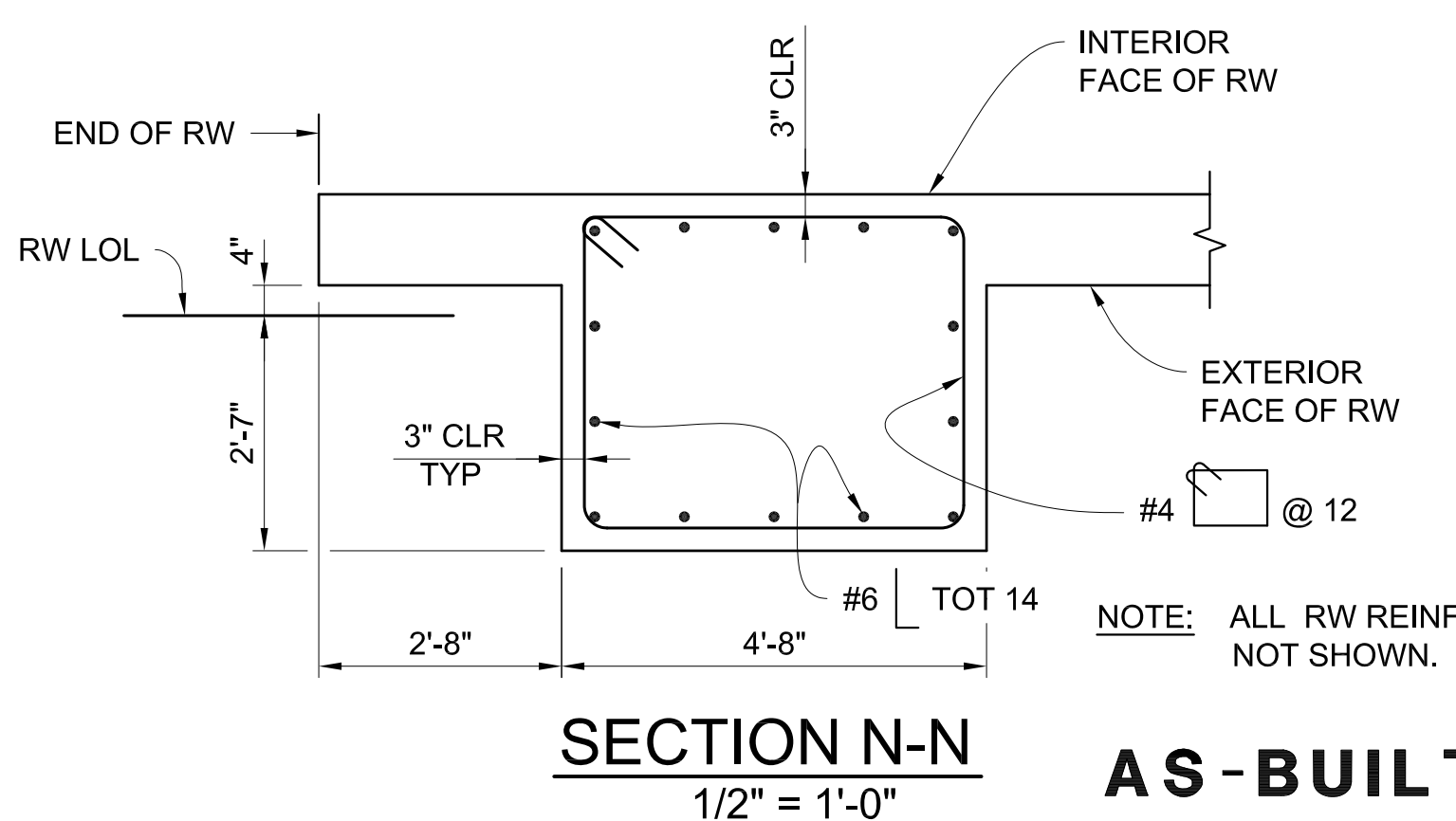


SECTION L-L
RETAINING WALL TYPICAL SECTION
1/2" = 1'-0"



NOTE: ALL RW REINF NOT SHOWN.

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



NOTE: ALL RW REINF NOT SHOWN.

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

AS-BUILT



MARK	DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

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

DESIGNED BY: QN	CHECKED BY: GR	DRAWING CODE:	JOB NO. 11017	SCALE: AS SHOWN
DRAWN BY: NL	BY:		PLOT DATE: 09/01/2016	AS SHOWN

COUNTY OF ORANGE
OC PUBLIC WORKS

EMR Engineering
10370 HENRY STREET, Suite 230
RIVERSIDE, CA 92503
Tel: (951) 687-1005

LA PATA AVENUE GAP CLOSURE
BRIDGE NO. 4

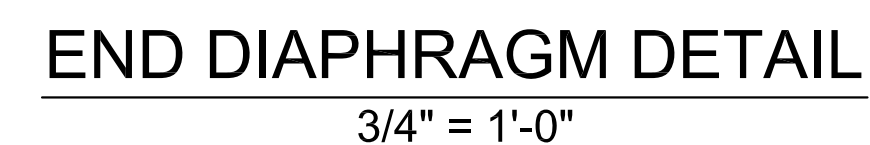
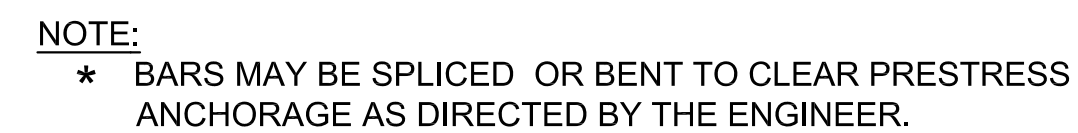
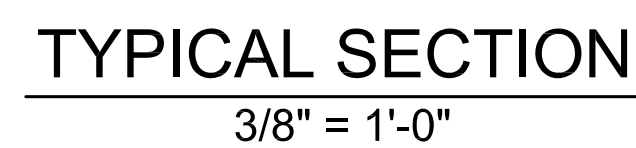
**ABUTMENT
DETAILS NO. 6**

Sheet
Reference
Number

S4-11

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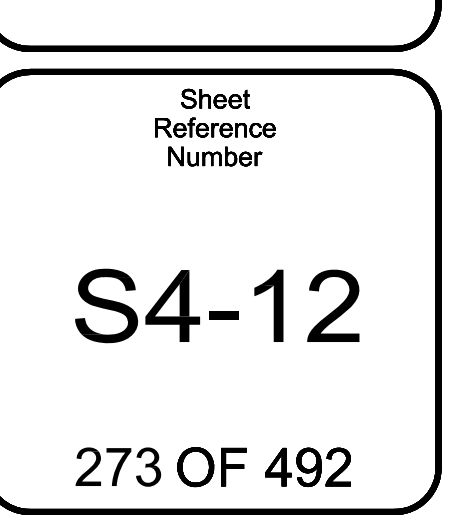
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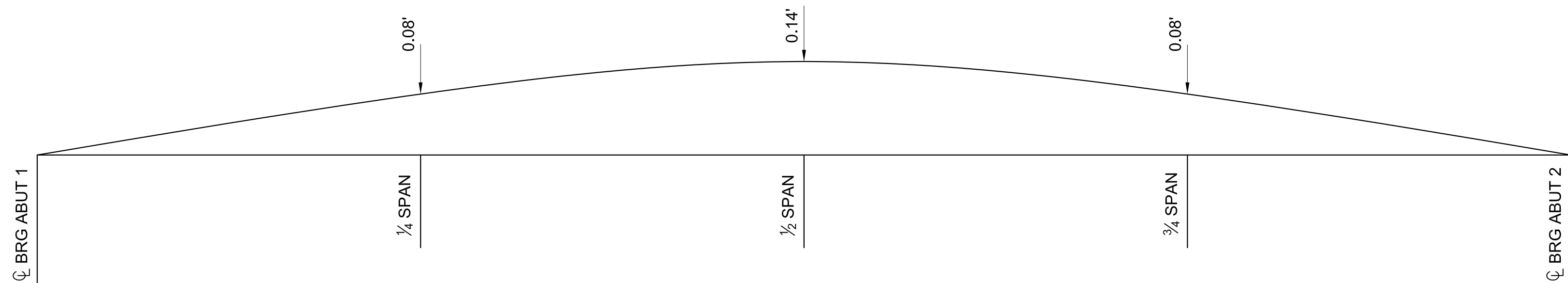
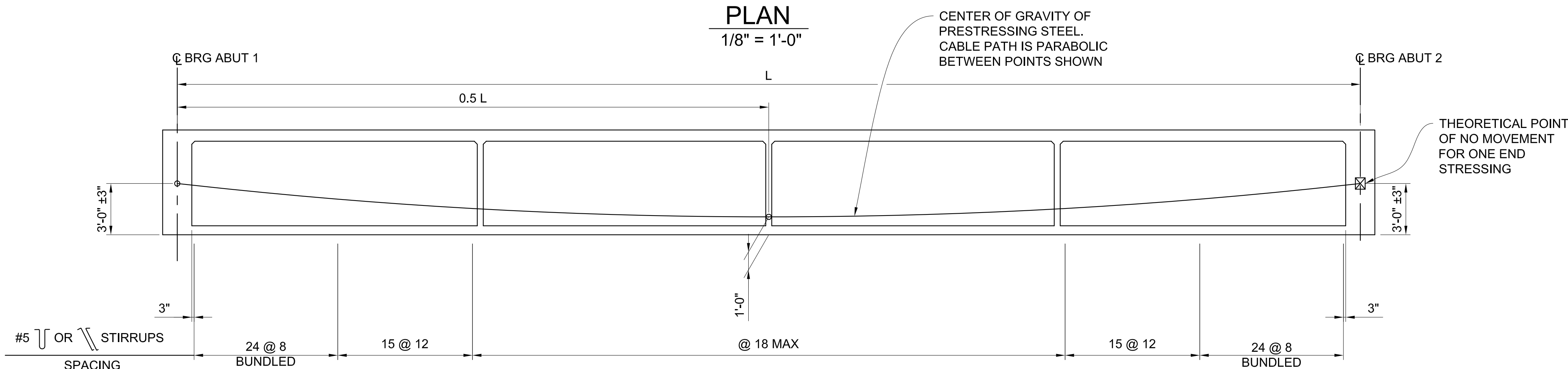
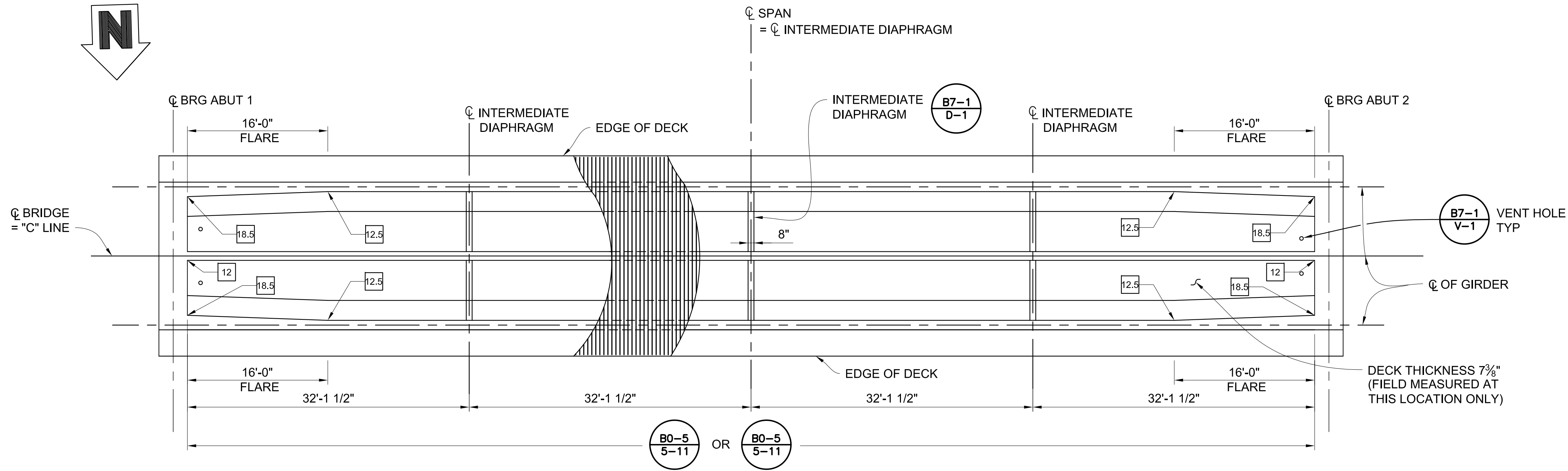


LEGEND:

○ ADDITIONAL REINF

- NOTES:**
1. FOR ADDITIONAL GIRDER REINFORCEMENT, SEE SHEET S4-14.
 2. BUNDLE WITH TOP TRANSVERSE BARS IN THE OVERHANG PLACE WITHIN 5'-0" FROM EXPANSION JOINTS AT ABUTMENTS.
 3. FOR PICKET FENCE SEE SHEET S4-18.
 4. FOR BRIDGE PILASTER DETAILS, SEE SHEET S4-15.
 5. ONLY "SERVICE SPLICES" ARE ALLOWED IN #10 AND #11 REINF. SPLICE BARS AT ALTERNATE ENDS. NO SPLICES ARE ALLOWED WITHIN 20' FROM C. SPAN.





- LEGEND:**
- 12 INDICATES GIRDER STEM WIDTH IN INCHES.
 - INDICATES THEORETICAL POINT OF NO MOVEMENT FOR ONE END STRESSING
 - INDICATES SOFFIT VENT

NOTE:
FOR END DIAPHRAGM, SEE SHEET S4-12.

PRESTRESSING NOTES:

- 270 ksi LOW RELAXATION STRAND:
- P_{jack} = 7,640 kips
- ANCHOR SET = 3/8 inches
- TOTAL NUMBER OF GIRDERS = 3
- FRICTION CURVATURE COEFFICIENT $\mu = 0.15$ (1/rad)
- FRICTION WOBBLE COEFFICIENT $K = 0.0002$ (1/ft)

DISTRIBUTION OF PRESTRESS FORCE (P_{jack}) BETWEEN GIRDERS SHALL NOT EXCEED THE RATIO OF 3:2.
MAXIMUM FINAL FORCE VARIATION BETWEEN GIRDERS SHALL NOT EXCEED 725 kips.

CONCRETE: f'_c = 5,000 psi @ 28 DAYS
 f'_{ci} = 4,000 psi @ TIME OF STRESSING

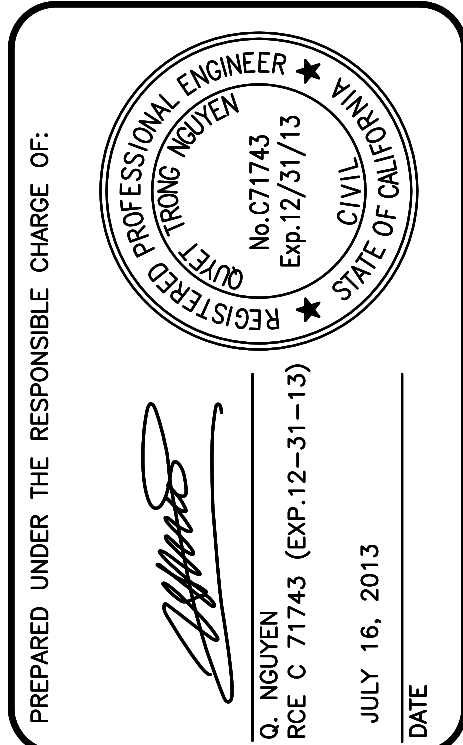
CONTRACTOR SHALL SUBMIT ELONGATION CALCULATIONS BASED ON INITIAL STRESS AT

ϵ = 0.924 TIMES JACKING STRESS.

ONE END STRESSING SHALL BE PERFORMED FROM EITHER ABUT 1 OR ABUT 2.



MARK	DESCRIPTION	DATE	APPR.

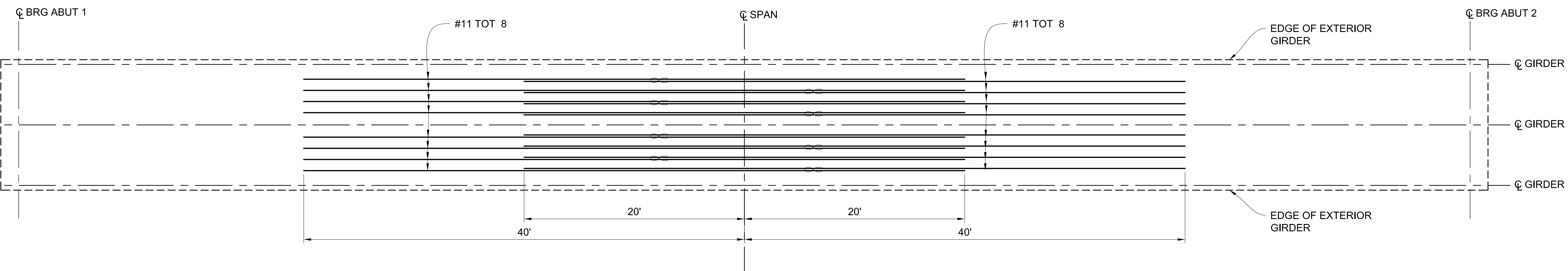


DESIGNED BY: QN	CHECKED BY: GR	DRAWING CODE: NL	JOB NO. 11017	SCALE: AS SHOWN
COUNTY OF ORANGE OC PUBLIC WORKS	ENGINEERING 10370 HEWITT STREET, Suite 230 RIVERSIDE, CA 92503 Tel: (951) 687-1005	PLOT DATE: 01/29/2018		

LA PATA AVENUE GAP CLOSURE BRIDGE NO. 4	GIRDER LAYOUT
--	---------------

Sheet Reference Number
S4-13
274 OF 492

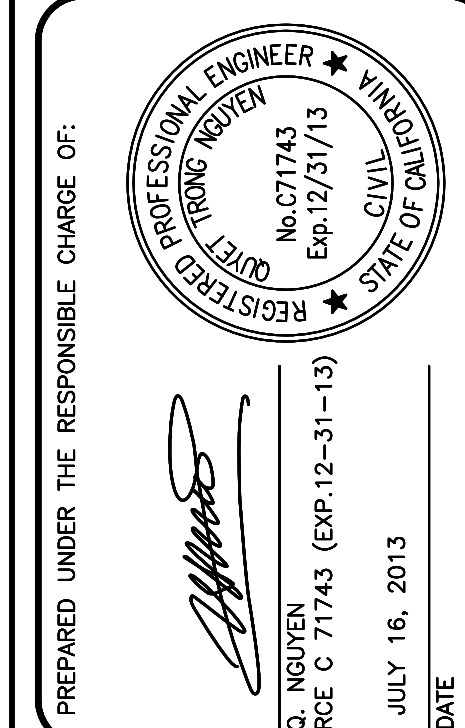
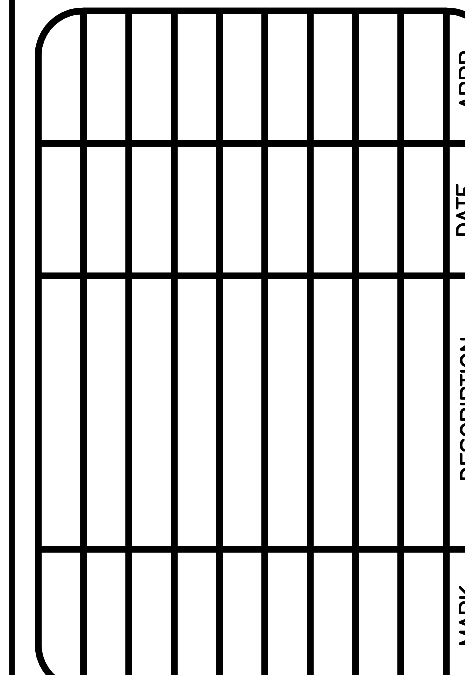
AS-BUILT


$$3/16" = 1'-0"$$

 INDICATES BUNDLED REINFORCEMENT.

1. FOR DETAILS NOT SHOWN, SEE SHEET S4-12.
2. SPLICES ARE NOT ALLOWED.

AS-BUILT



 TRIBAL Engineers Inc. 10370 HEWET STREET, Suite 230 RIVERSIDE, CA 92503	DESIGNED BY:	
	ON	
	DRAWN BY:	CHECKED BY:
	NL	GR
	DRAWING CODE:	
	JOB NO.	
	11017	
	PL017 DATE:	SCALE:

LA PATA AVENUE GAP CLOSURE
BRIDGE NO. 4

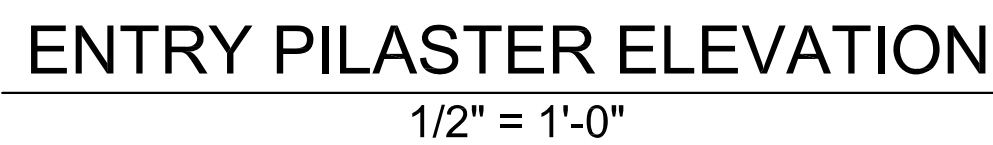
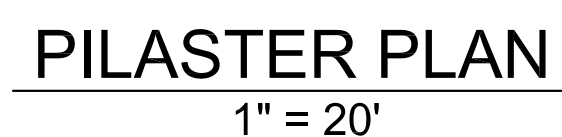
ADDITIONAL GIRDER REINFORCEMENT

Sheet
Reference
Number

S4-14

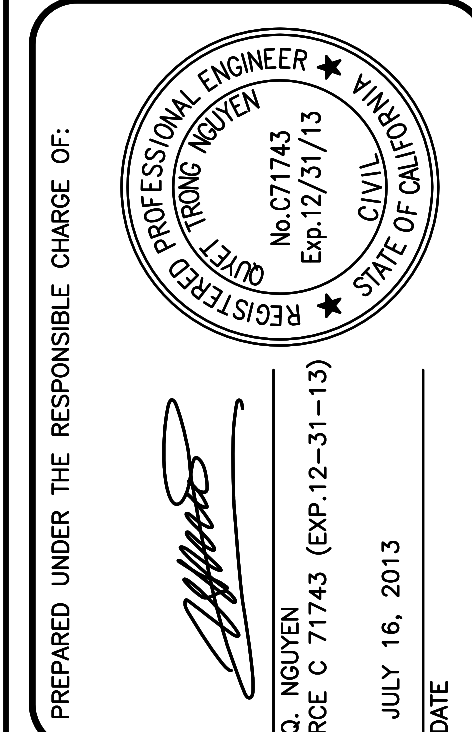
275 OF 492

	Location	Supports As-Built	Closure Construction No.	Girder Reinforcement dwo.	Girder Reinforcement dwc.	Aug 24	2016	9:39am
w\11017	Ia Palo Ave							



1. ALL EXPOSED CONCRETE SURFACES INCLUDING THE SURFACES AT ENTRY PILASTERS, BRIDGE PILASTERS, BRIDGE TOWERS, CONCRETE BARRIERS, ABUTMENTS, RETAINING WALLS AND BOX GIRDER EXCEPT DECK SURFACE TO BE STAINED IN MESA BEIGE.
2. FOR LIMITS OF STAINED CONCRETE ON ABUTMENT AND RETAINING WALL SURFACES, SEE SHEET S4-17.
3. FOR "SECTIONS A-A, B-B, C-C AND D-D", SEE SHEET S4-16.

AS-BUILT

[illegible]

COUNTY OF ORANGE OC PUBLIC WORKS	DESIGNED BY:	
	Q/N	
	DRAWN BY:	CHECKED BY:
	N/L	GR
	DRAWING CODE:	
 TFM Engineers, Inc. 10370 NEWET STREET, Suite 230 RIVERSIDE, CA 92503 Tel. (951) 687-1005	JOB NO. 11017	
	SCALE: PLOT DATE: 08/01/2016 AS SHOWN	

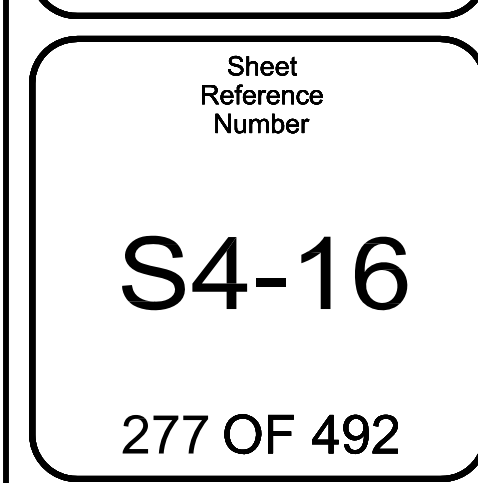
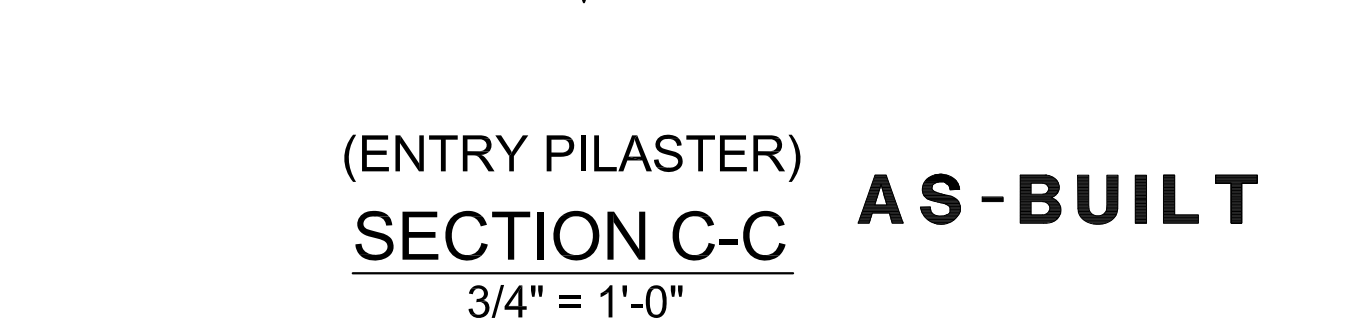
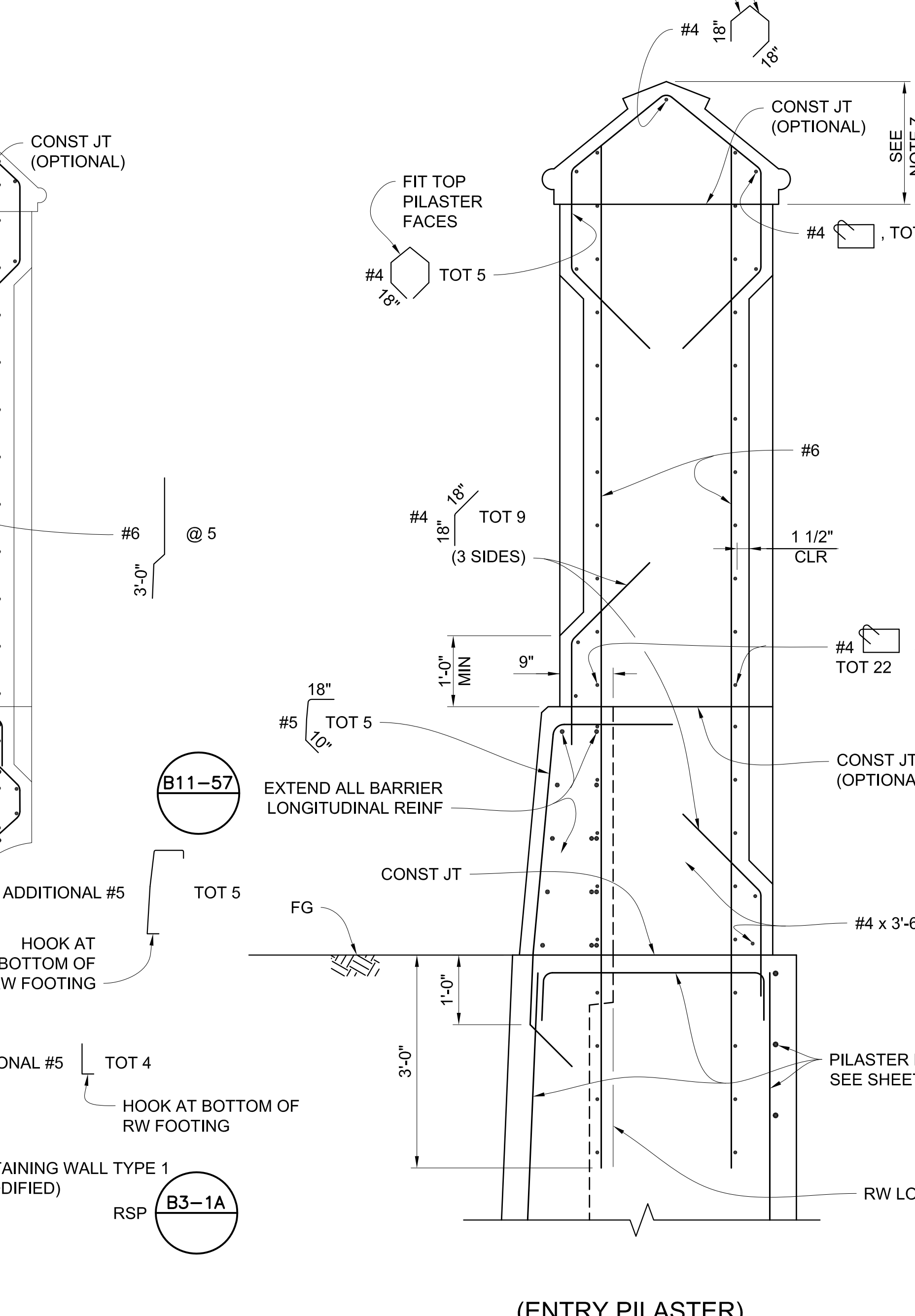
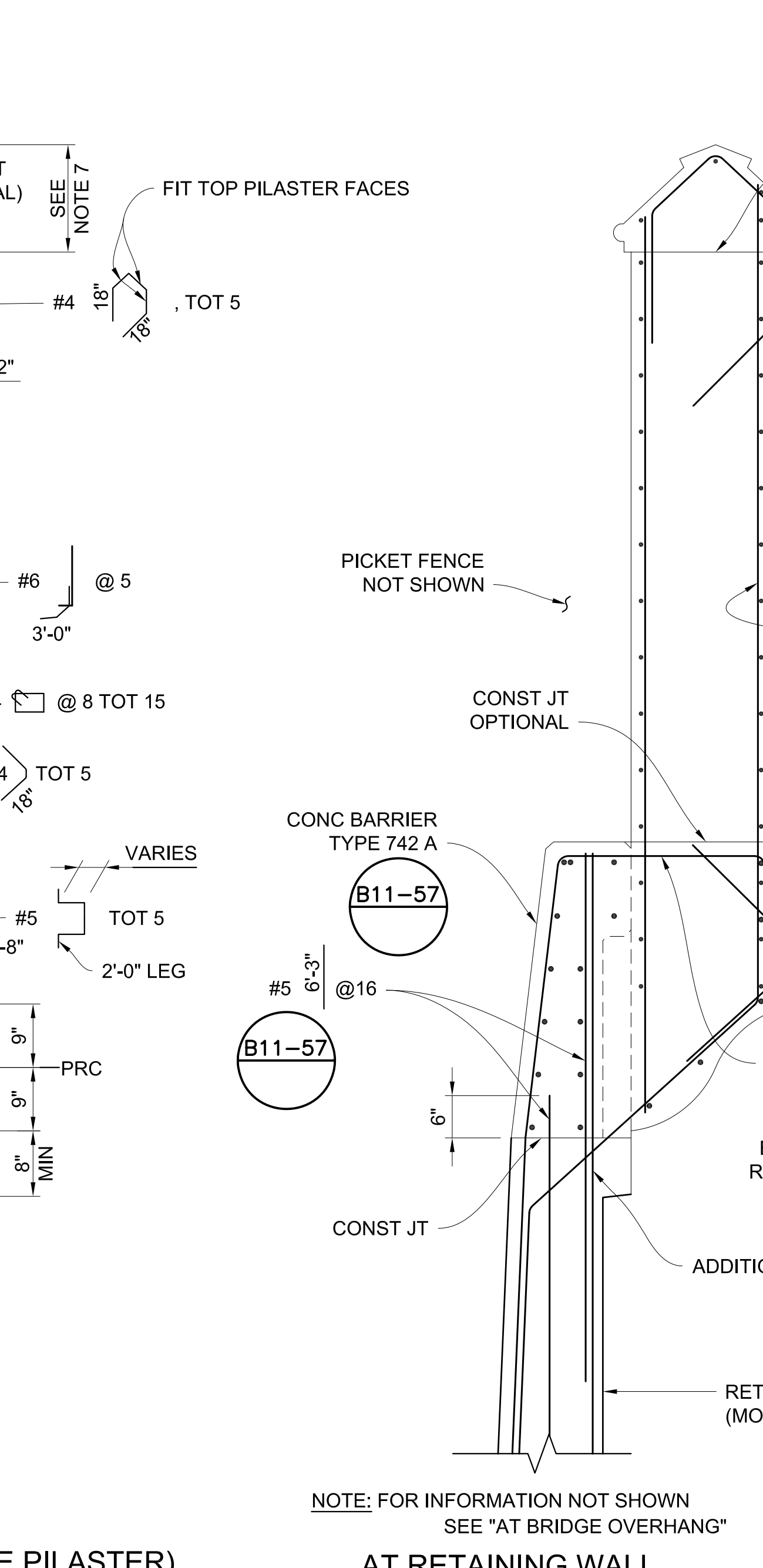
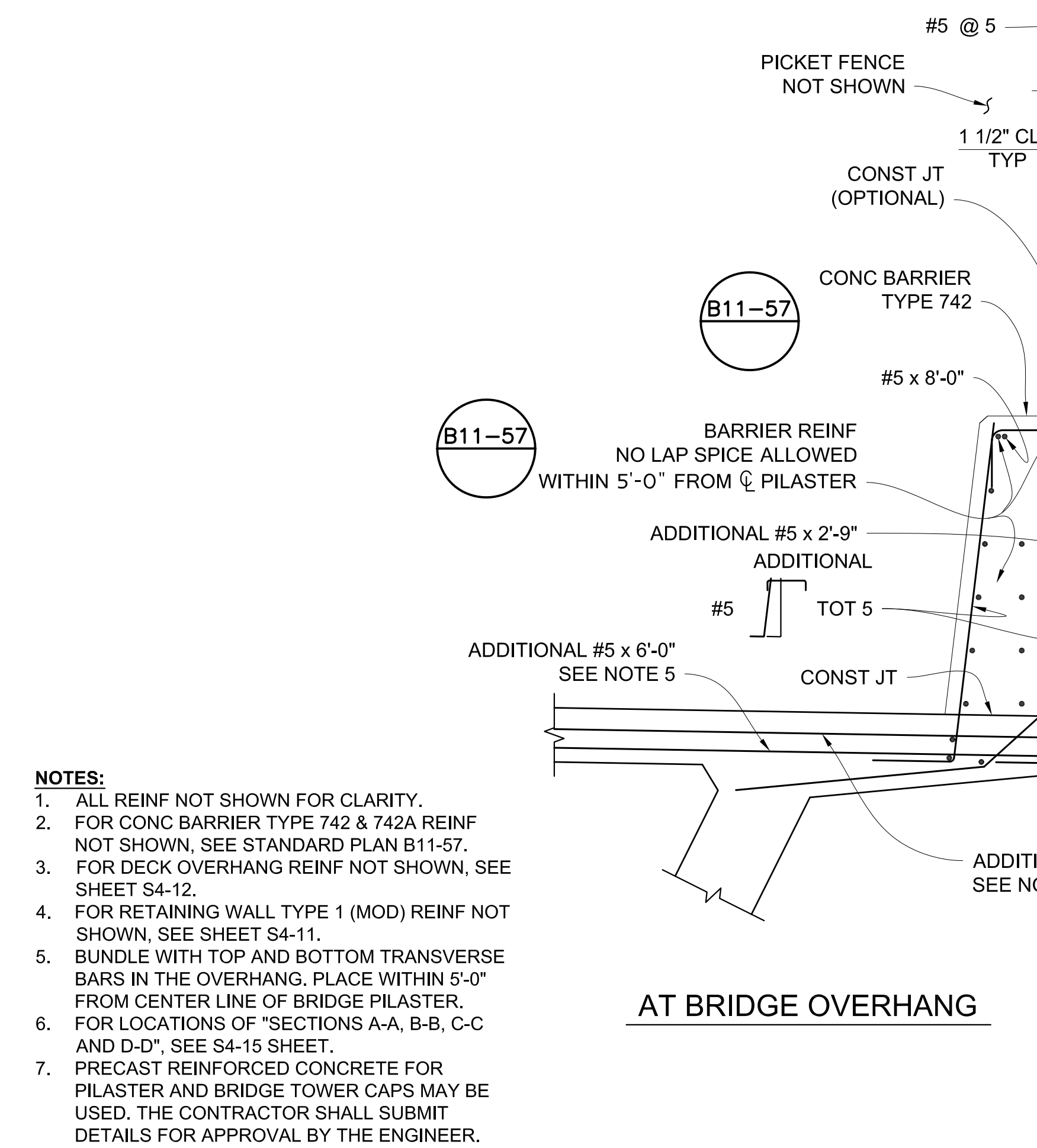
LA PATA AVENUE GAP CLOSURE
BRIDGE NO. 4

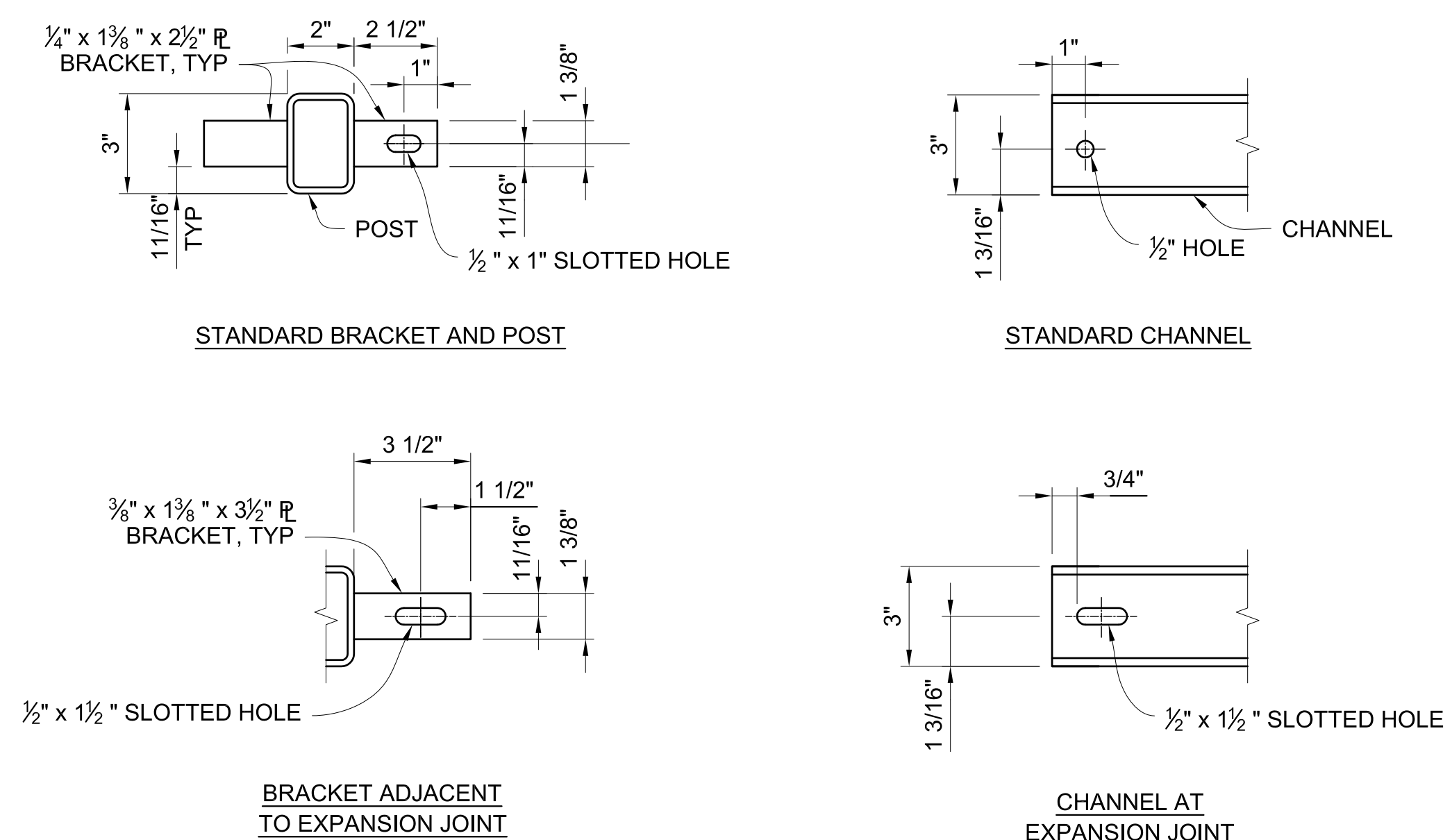
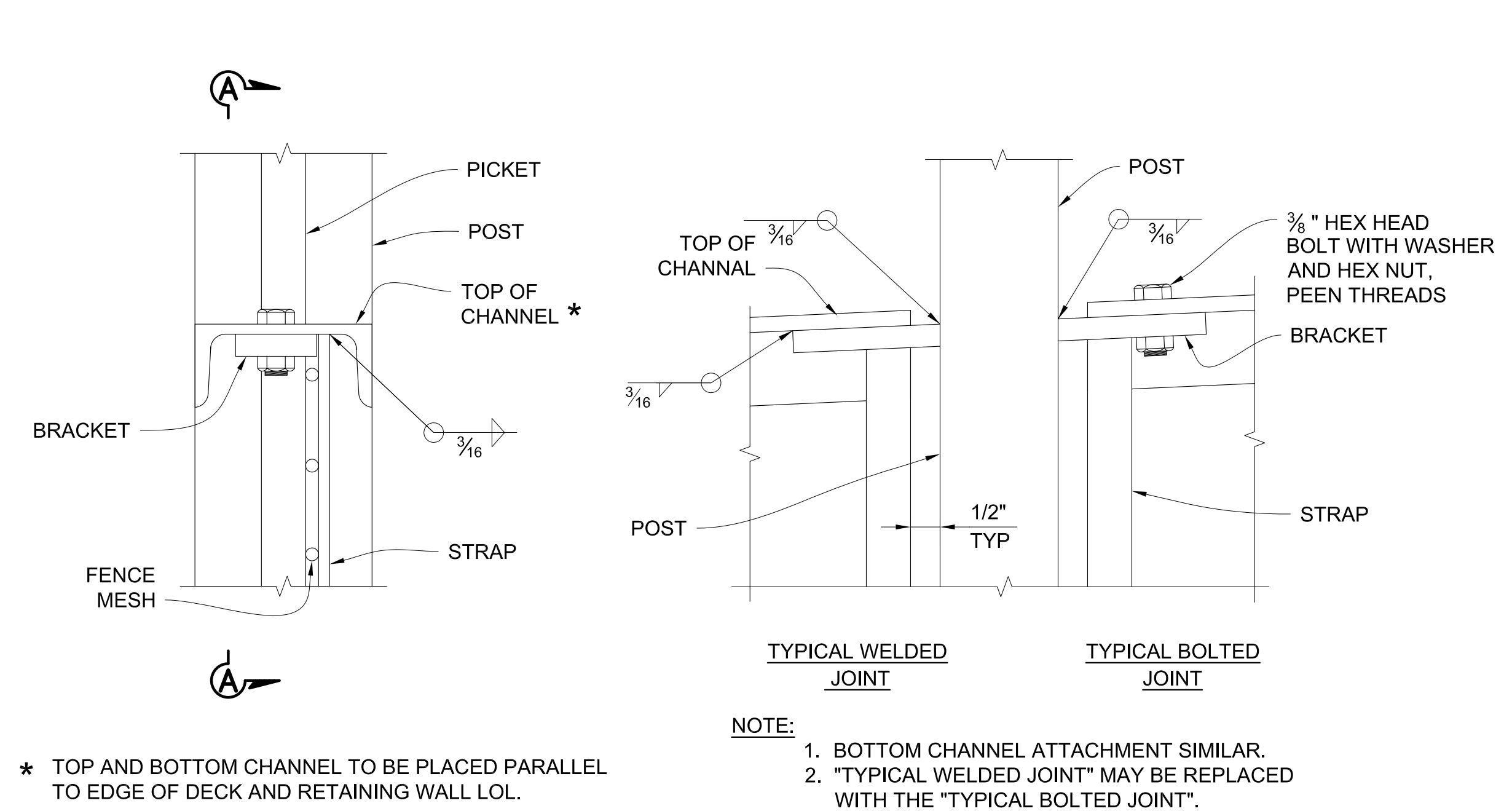
ARCHITECTURAL
TREATMENT
DETAILS NO. 1

Sheet
Reference
Number

S4-15

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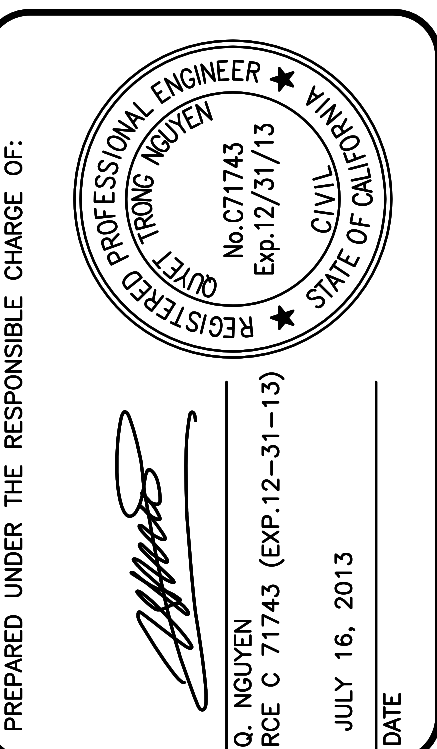




NOTES:

1. PICKET FENCE ASSEMBLY INCLUDING WELDED FENCE MESH SHALL BE GALVANIZED AND PAINTED IN MEDIUM BRONZE.
2. PICKET FENCE SHALL CONFORM TO HORIZONTAL AND VERTICAL ALIGNMENT. POST SHALL BE VERTICAL.

AS-BUILT

[illegible]

COUNTY OF ORANGE

OC PUBLIC WORKS



TERRA Engineers
 10370 HENET STREET, Suite 230
 RIVERSIDE, CA 92503
 Tel: (951) 687-1005

DESIGNED BY:

QIN

DRAWN BY: _____

CHECKED BY: _____

DATE: _____

SCALE: _____

DRAWING CODE:

JOB NO. 11017

PLOT DATE: 08/01/2016

SCALE: AS SHOWN

PATA AVENUE GAP CLOSURE
BRIDGE NO. 4

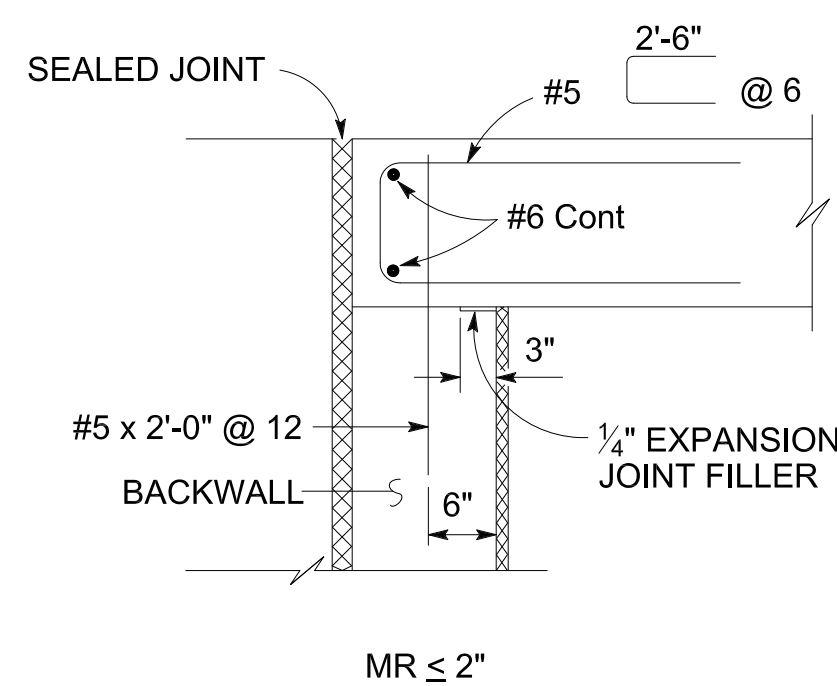
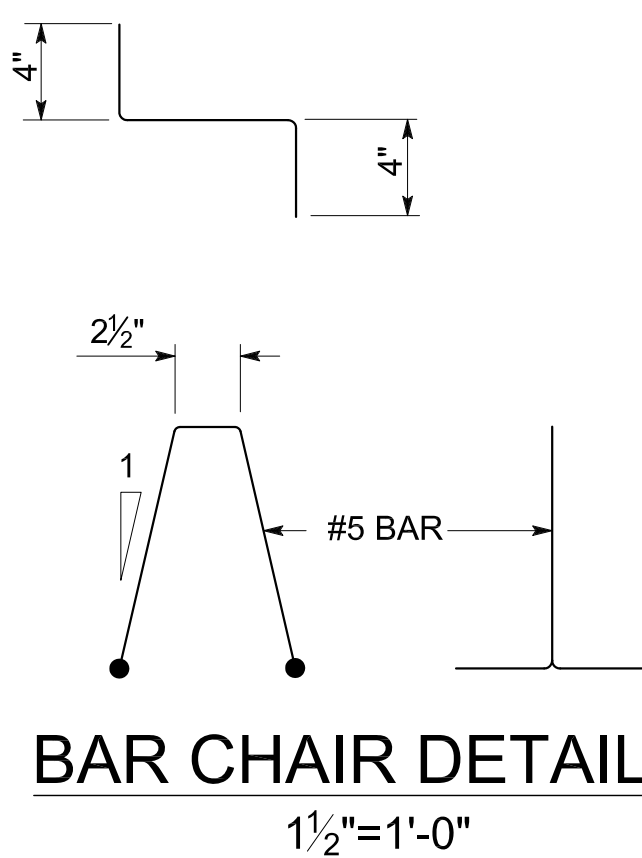
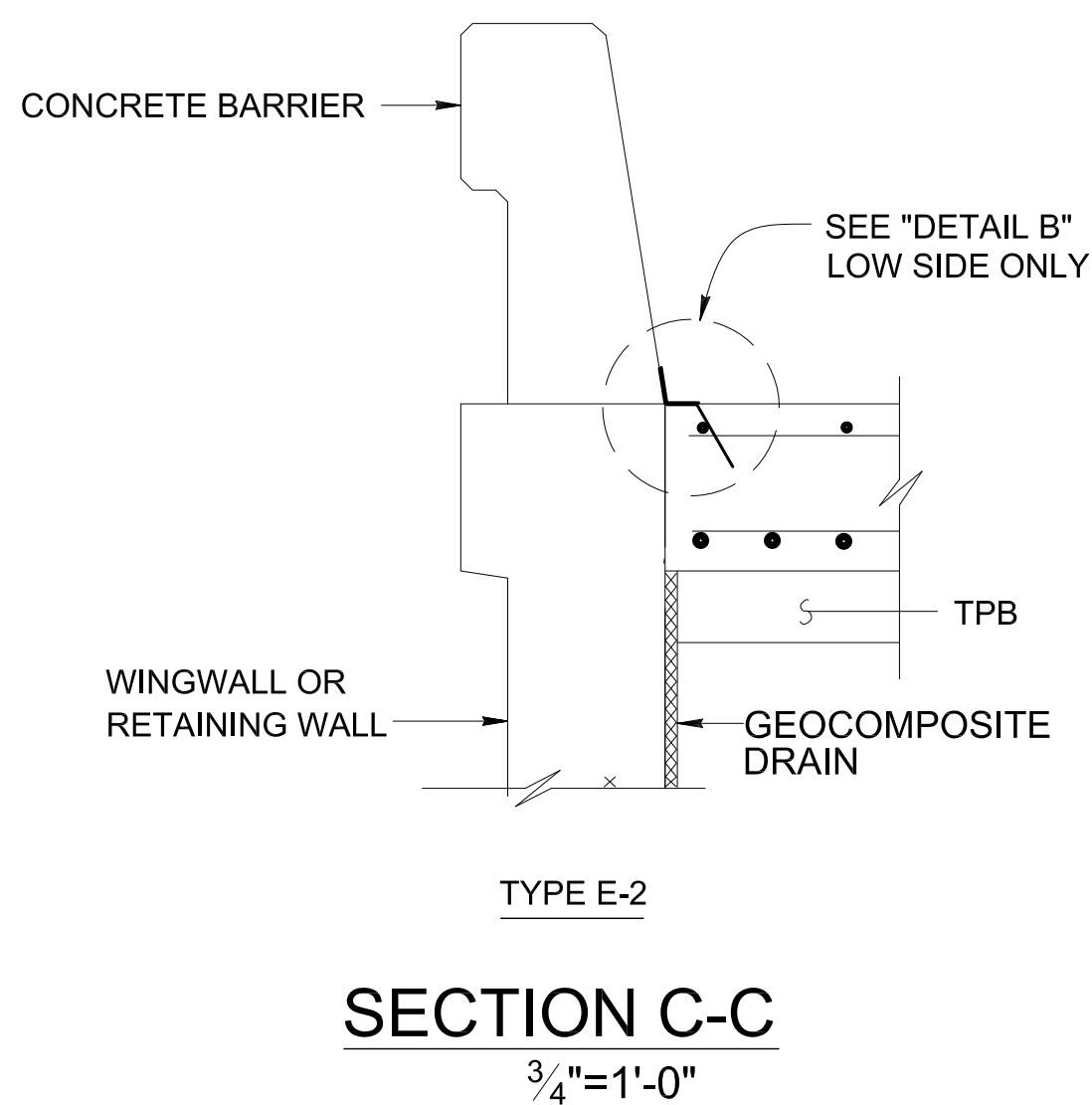
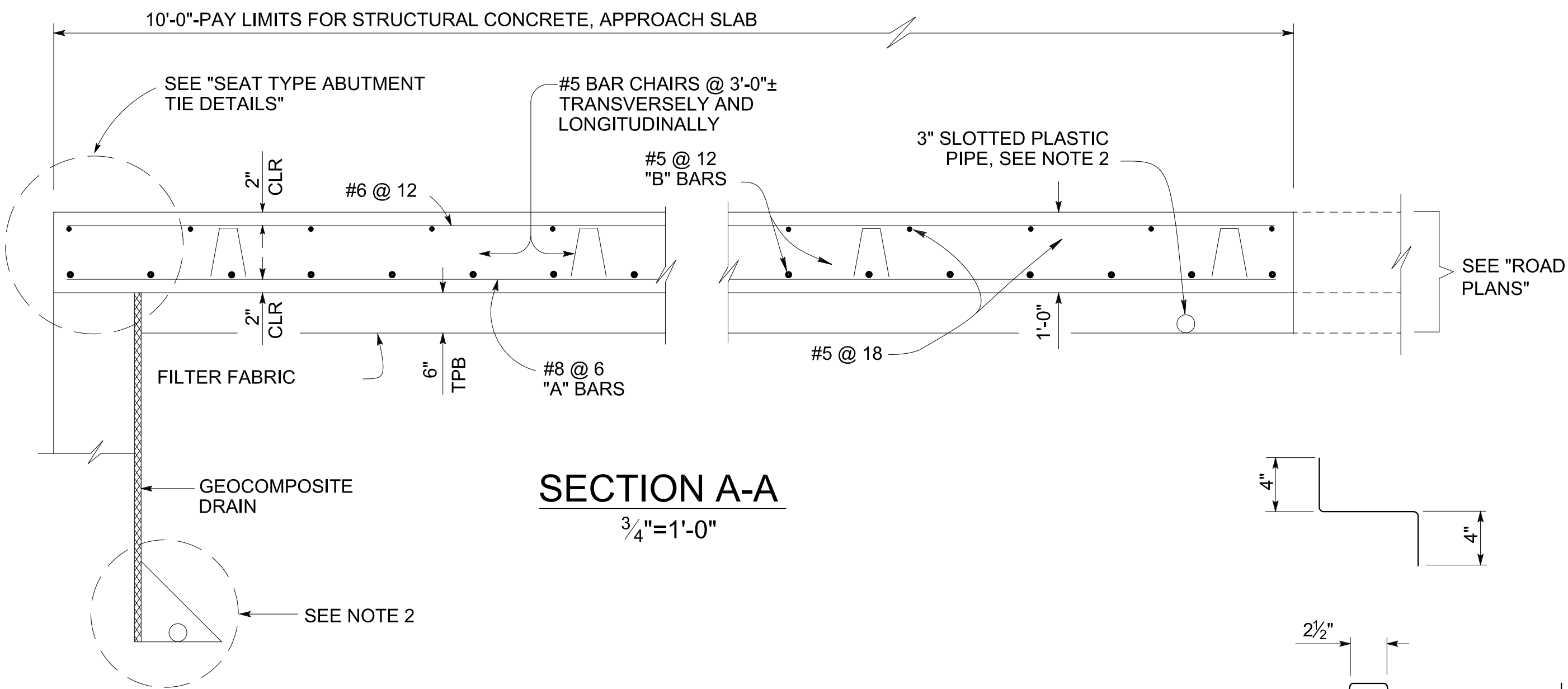
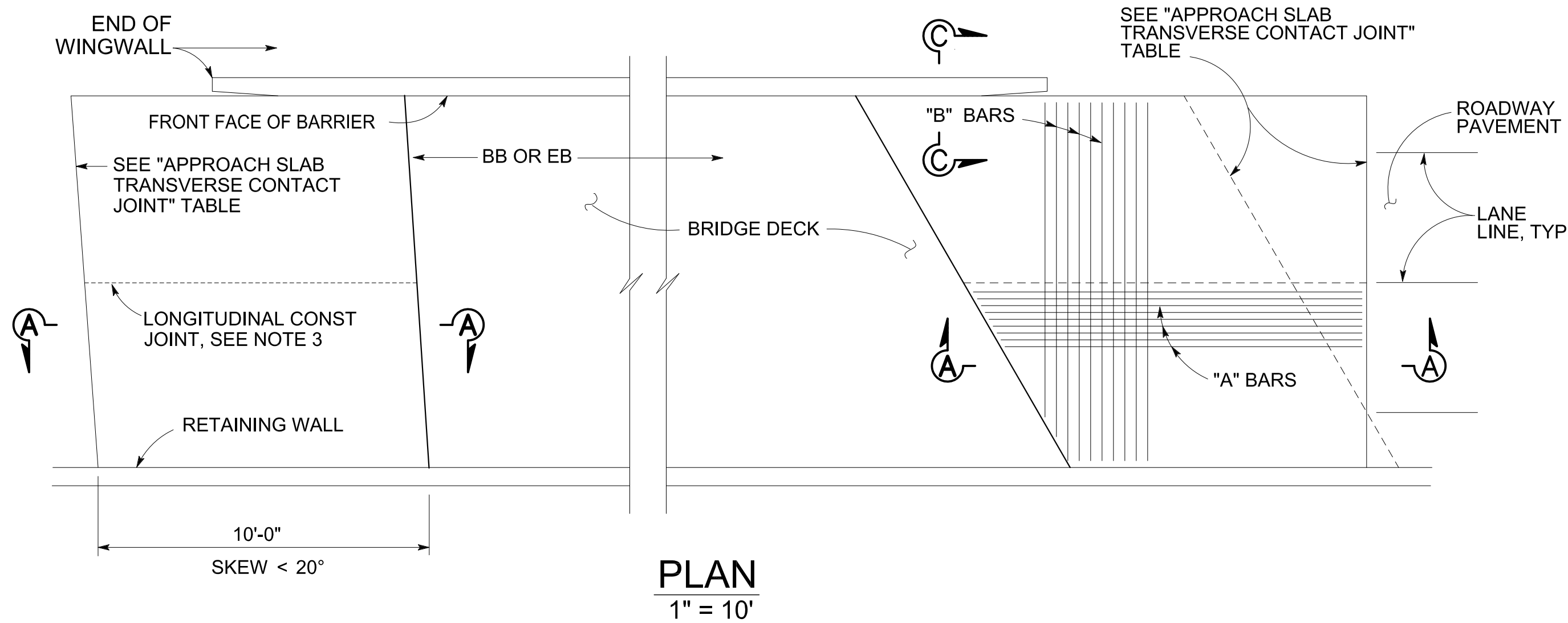
PICKET FENCE
DETAILS

Sheet
Reference
Number

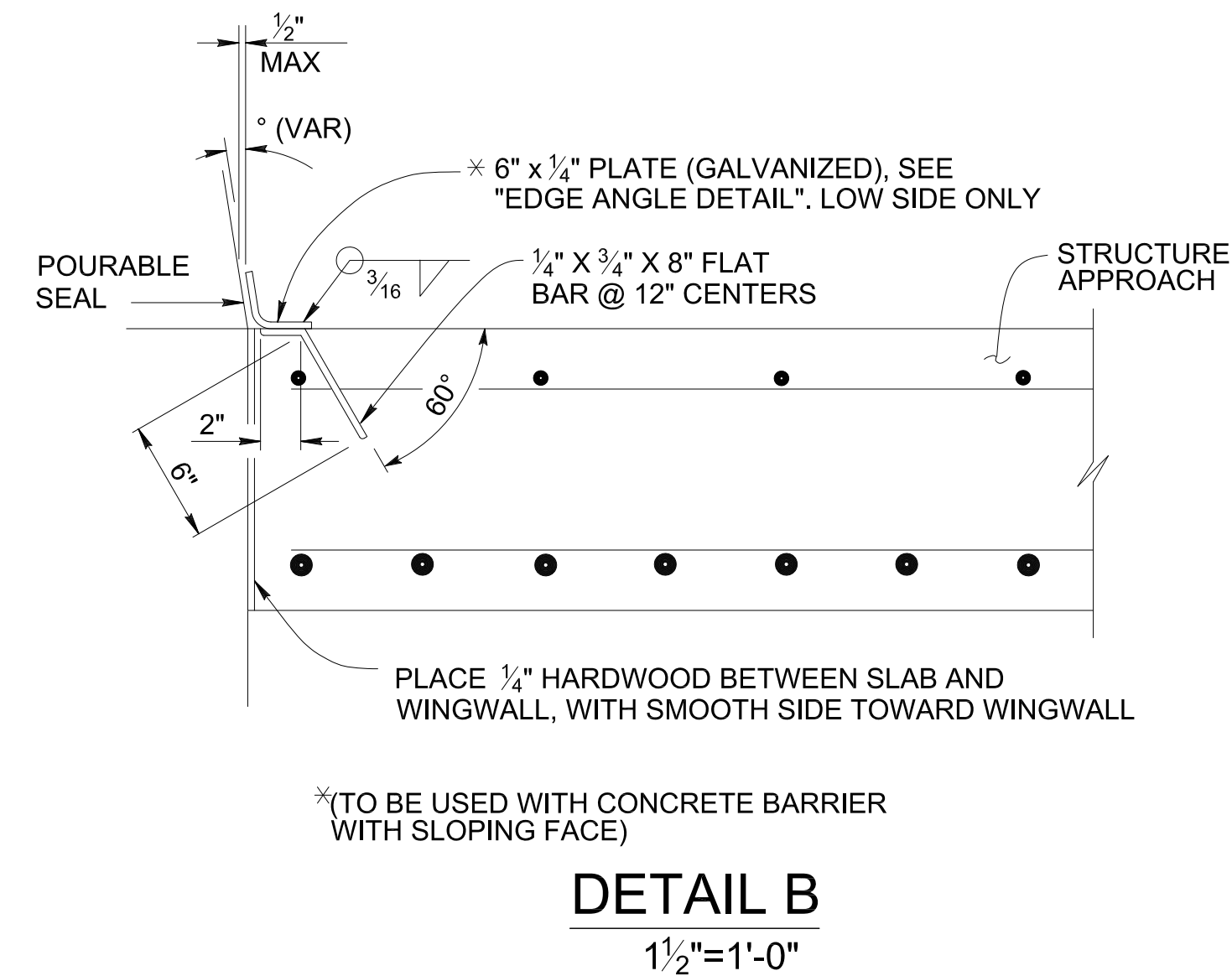
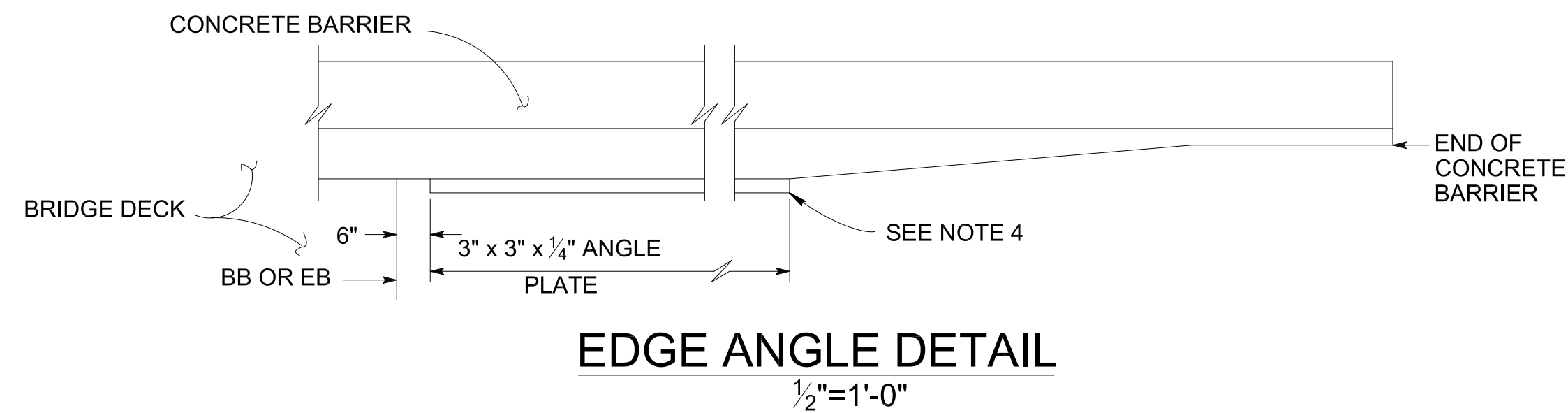
S4-18

279 OF 492

W:\11017 La Pata Ave Gap Closure\Construction Supports\As-builts\Bridge No. 4\20160831\S4-18 - Picket Fence Details.dwg, Layout: PICKET FENCE DETAILS, Aug 24 2016 9:23am



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



*(TO BE USED WITH CONCRETE BARRIER WITH SLOPING FACE)

NOTES:

- FOR DETAILS NOT SHOWN, SEE SHEETS S4-4 AND S4-12. FOR MR ≤ 2", ADJUST BAR REINFORCEMENT TO CLEAR A SAWCUT FOR SEALED JOINT, WHEN REQUIRED.
- FOR DRAINAGE DETAILS, SEE SHEET S4-20.
- LONGITUDINAL CONSTRUCTION JOINTS, WHEN PERMITTED BY THE ENGINEER, SHALL BE LOCATED ON LANE LINES.
- END PLATE AT END OF STRUCTURE APPROACH AS APPLICABLE.
- AT THE CONTRACTOR'S OPTION, APPROACH SLAB TRANSVERSE REINFORCEMENT MAY BE PLACED PARALLEL TO PAVING NOTCH. SPACING OF TRANSVERSE REINFORCEMENT IS MEASURED ALONG CL ROADWAY.

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



MARK	DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

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

DESIGNED BY: QN
DRAWN BY: NL
CHECKED BY: GR
DRAWING CODE: 11017
JOB NO. 11017
PLOT DATE: 09/01/2016
SCALE: AS SHOWN

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. 4

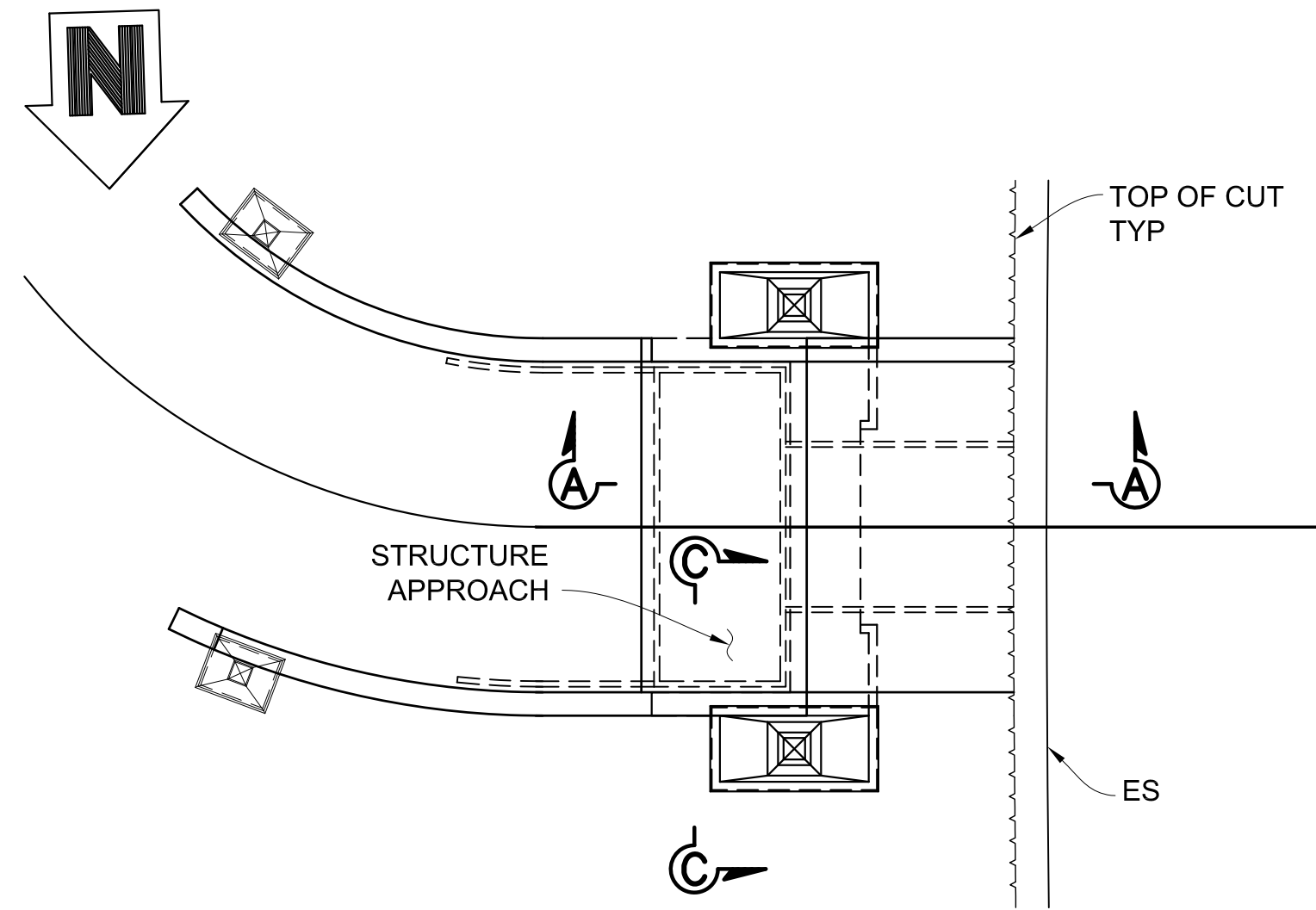
**STRUCTURE APPROACH
TYPE N(10S)**

Sheet
Reference
Number

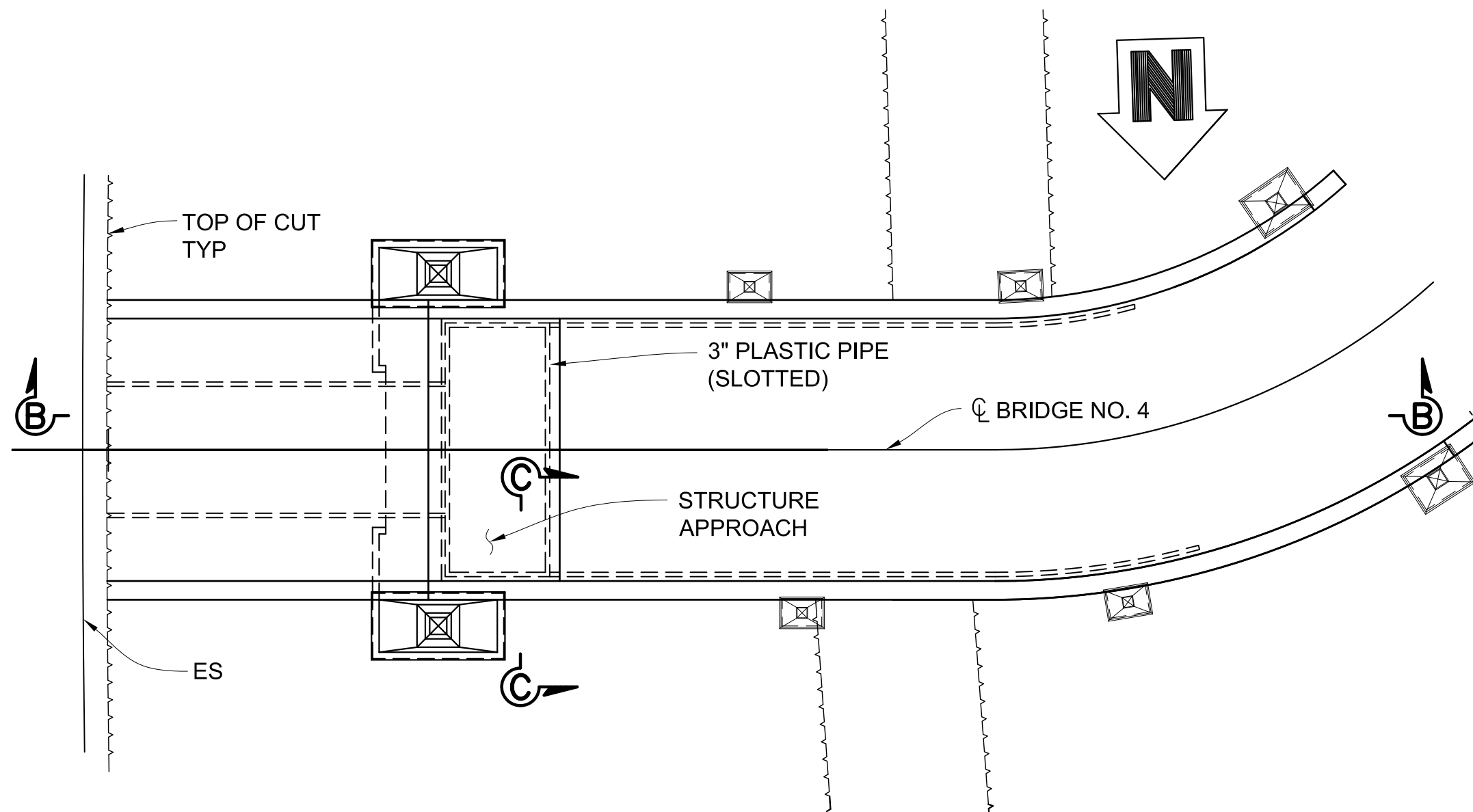
S4-19

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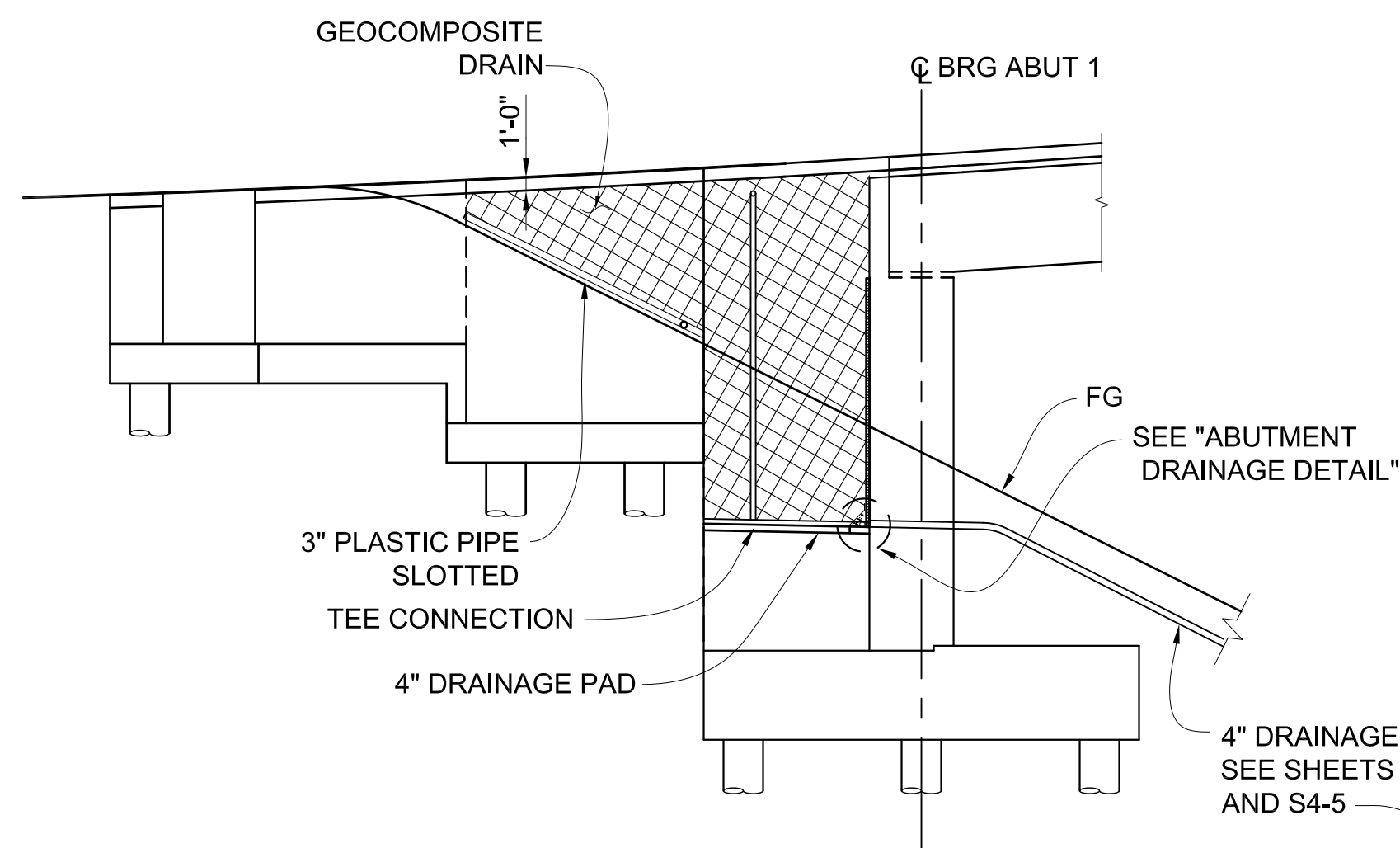
AS-BUILT



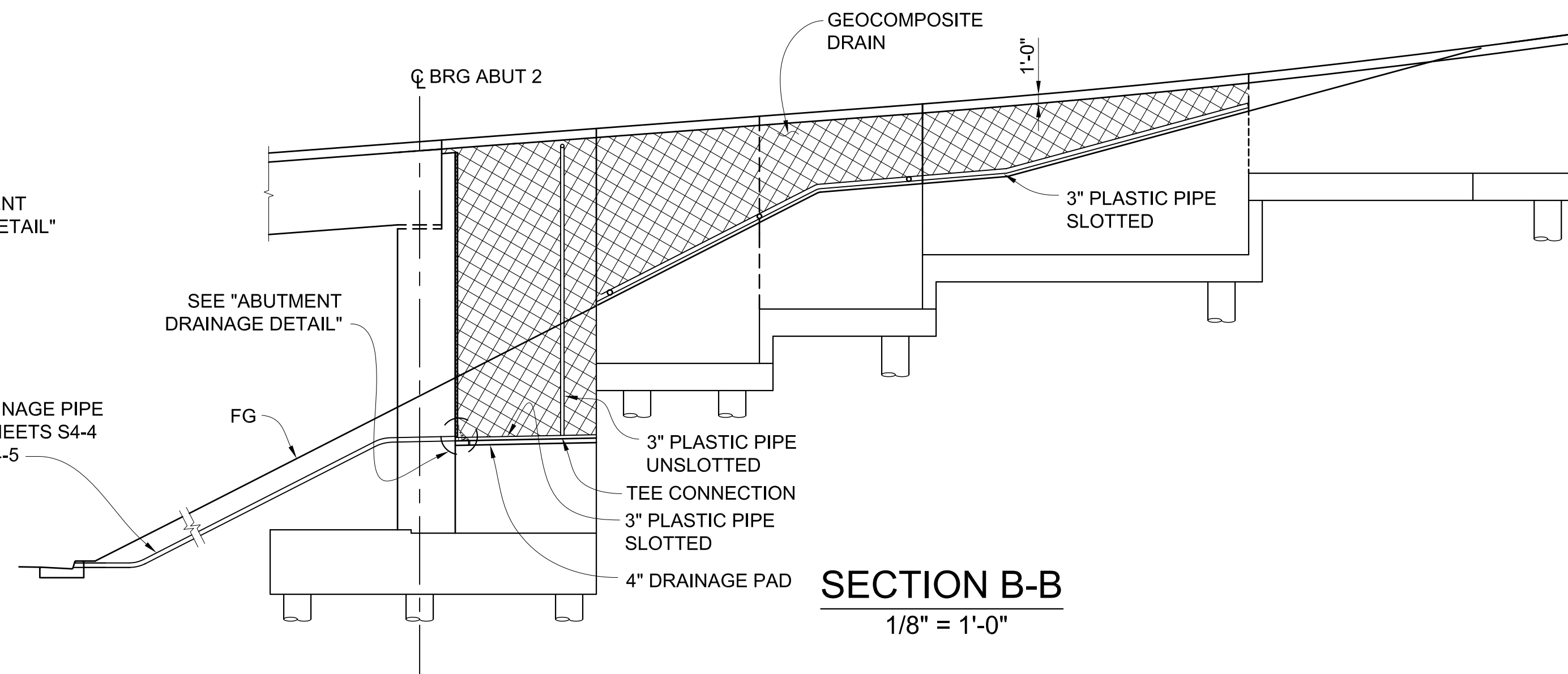
ABUT 1 PLAN
1" = 10'-0"



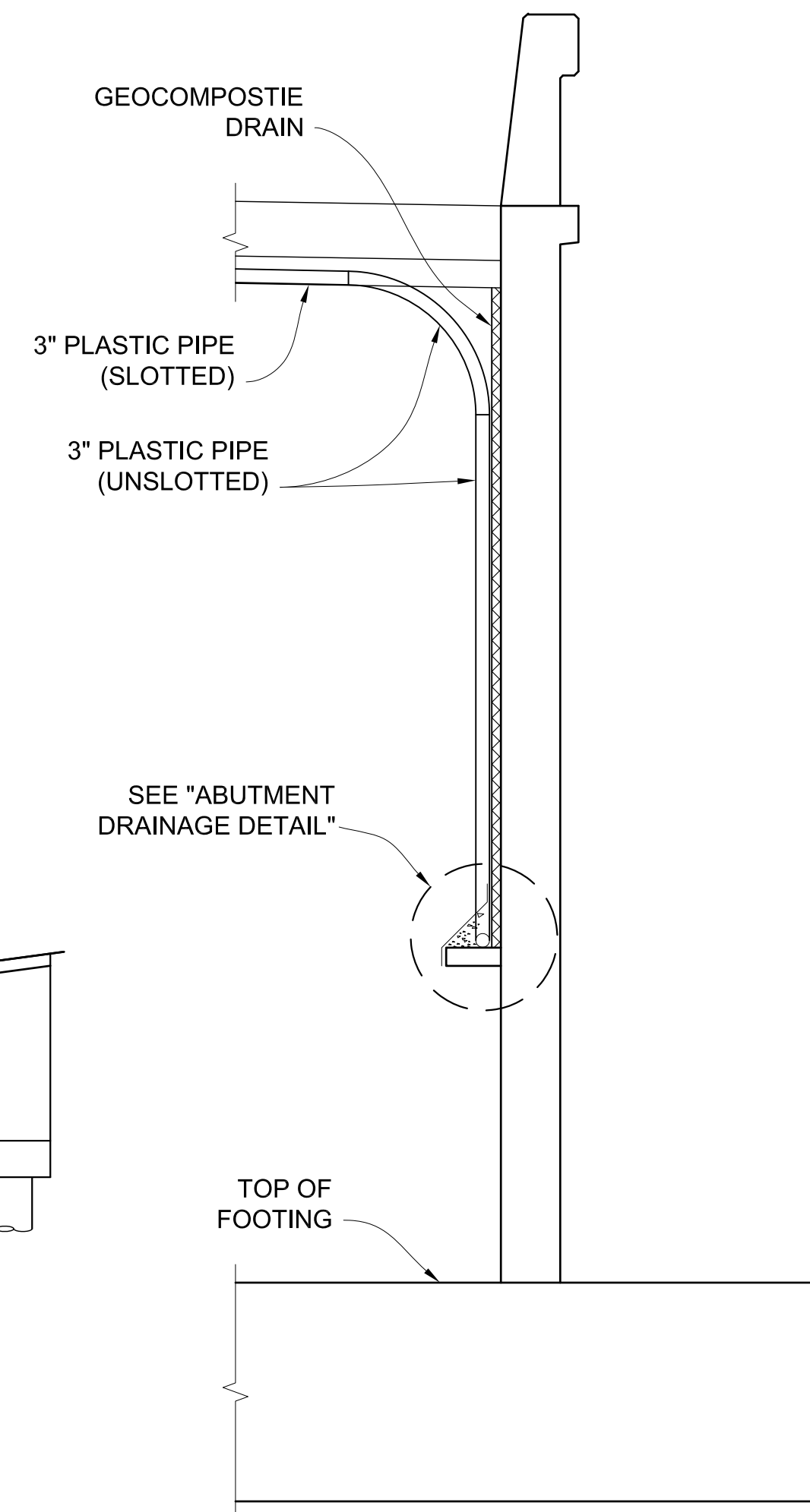
ABUT 2 PLAN
1" = 10'-0"



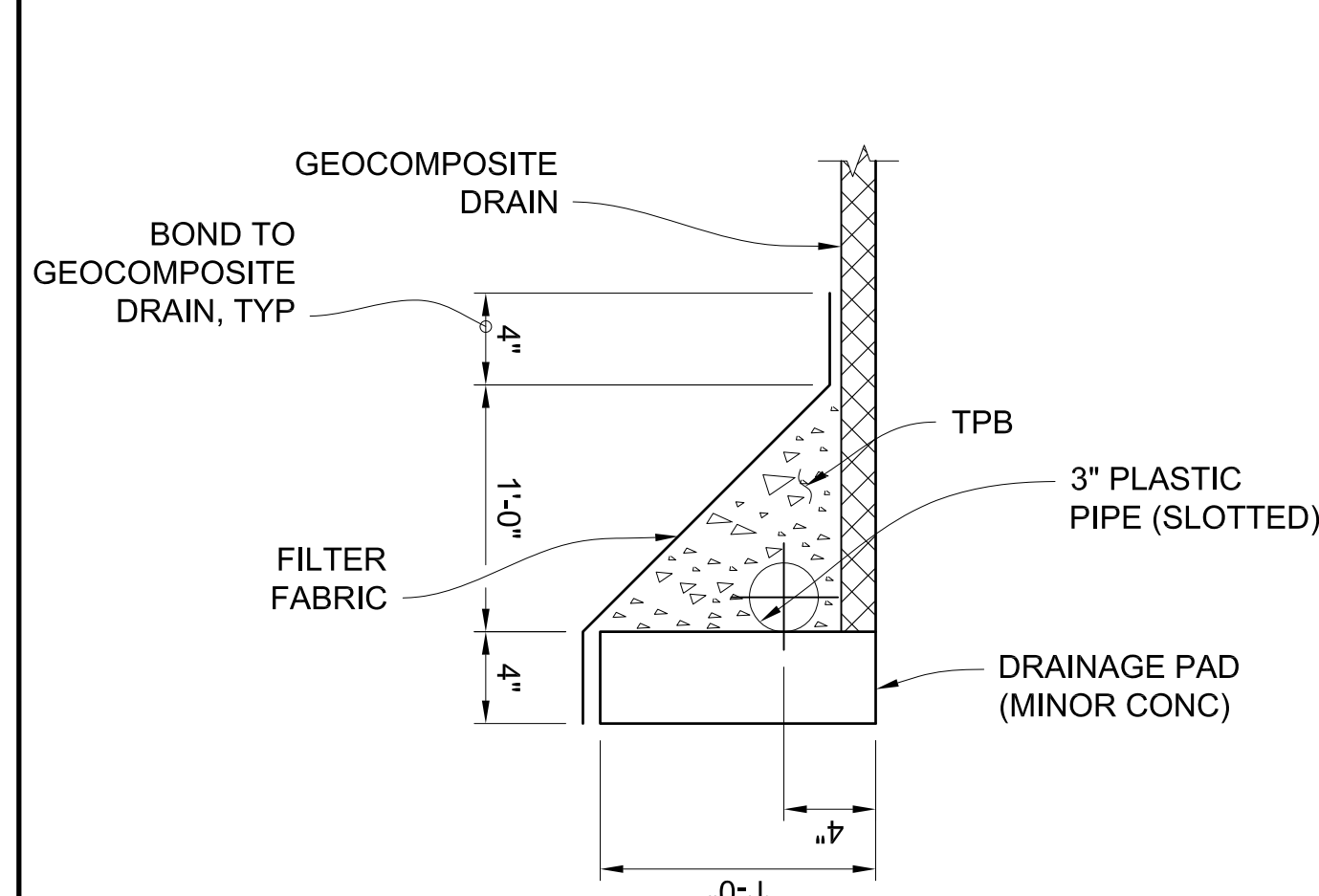
SECTION A-A
1/8" = 1'-0"



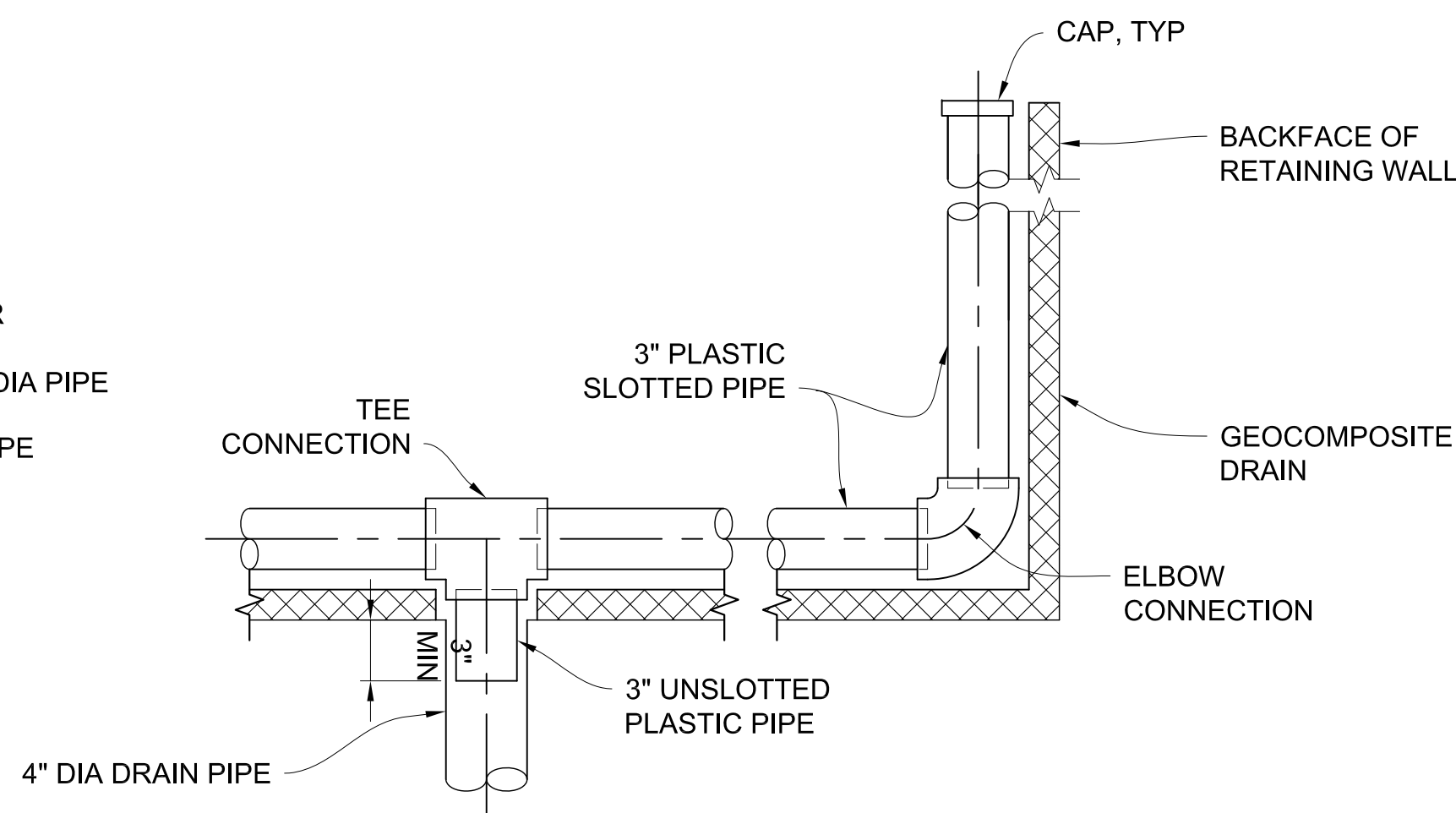
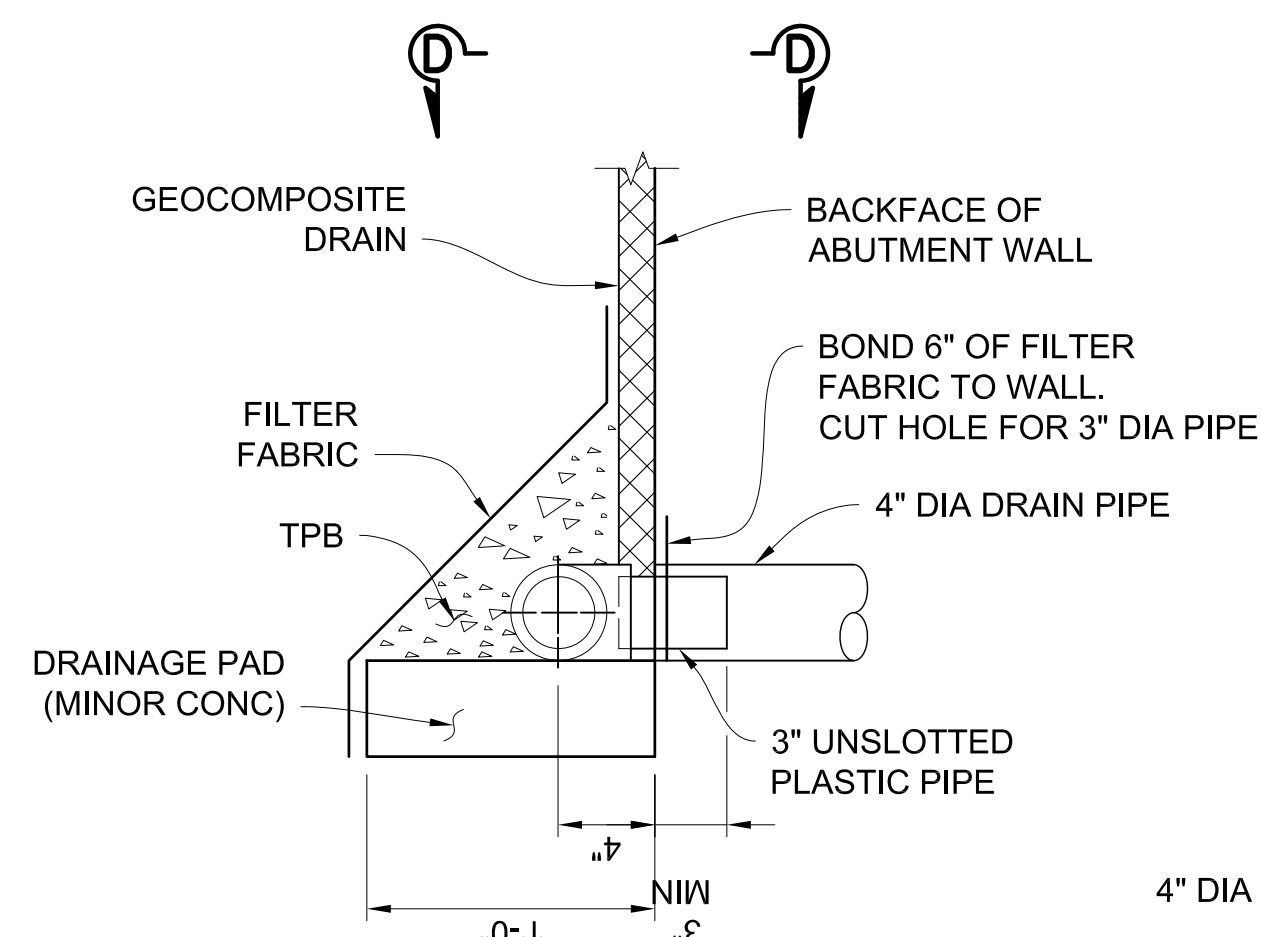
SECTION B-B
1/8" = 1'-0"



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



ABUTMENT DRAINAGE DETAIL
1-1/2" = 1'-0"



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

NOTES:

- 4" OUTLET DRAINS AT INTERMEDIATE SAG POINTS. SEE SHEETS S4-4 AND S4-5 FOR DETAILS. EXPOSED WALL DRAIN SHALL BE LOCATED 3"± ABOVE FINISHED GRADE.
- GEOCOMPOSITE DRAIN, CEMENT TREATED PERMEABLE BASE, AND 3" SLOTTED PLASTIC PIPE CONTINUOUS BEHIND ABUTMENT RETURN WALLS AND RETAINING WALL. PROVIDE "TEE" CONNECTION AT 4" PLASTIC PIPE OUTLET DRAIN.
- ADJUST ABUTMENT/ RETAINING WALL REINFORCEMENT TO CLEAR THE 4" PLASTIC PIPE.
- BENTS AND JUNCTIONS IN 3" PLASTIC PIPE ARE 2'-6" RADIUS MIN.
- PROVIDE TEE CONNECTION AT VERTICAL UNSLOTTED PLASTIC PIPES.

AS-BUILT



MARK	DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

REGISTERED PROFESSIONAL ENGINEER
 Q. NGUYEN
 No. C71743
 Exp. 12/31/13
 CIVIL
 STATE OF CALIFORNIA

JULY 16, 2013
 DATE

DESIGNED BY: ON
 DRAWN BY: NL
 CHECKED BY: GR
 DRAWING CODE: 11017
 JOB NO. 11017
 PLOT DATE: 09/01/2016
 SCALE: AS SHOWN

COUNTY OF ORANGE
 OC PUBLIC WORKS

OC Engineers
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 RIVERSIDE, CA 92503
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LA PATA AVENUE GAP CLOSURE
BRIDGE NO. 4

STRUCTURE APPROACH DRAINAGE DETAILS

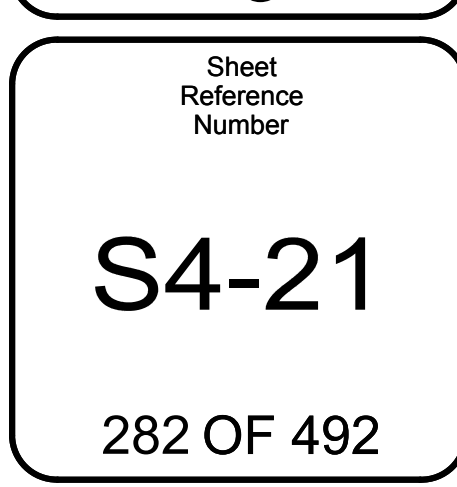
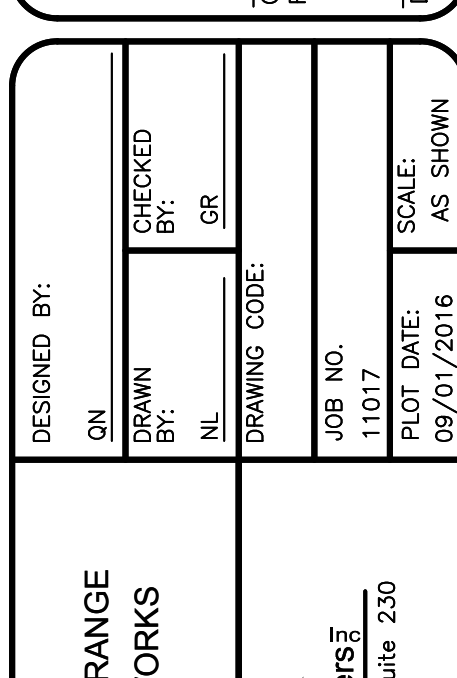
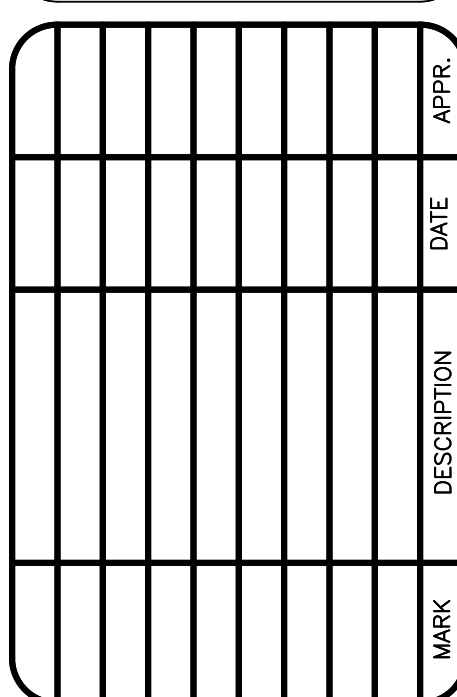
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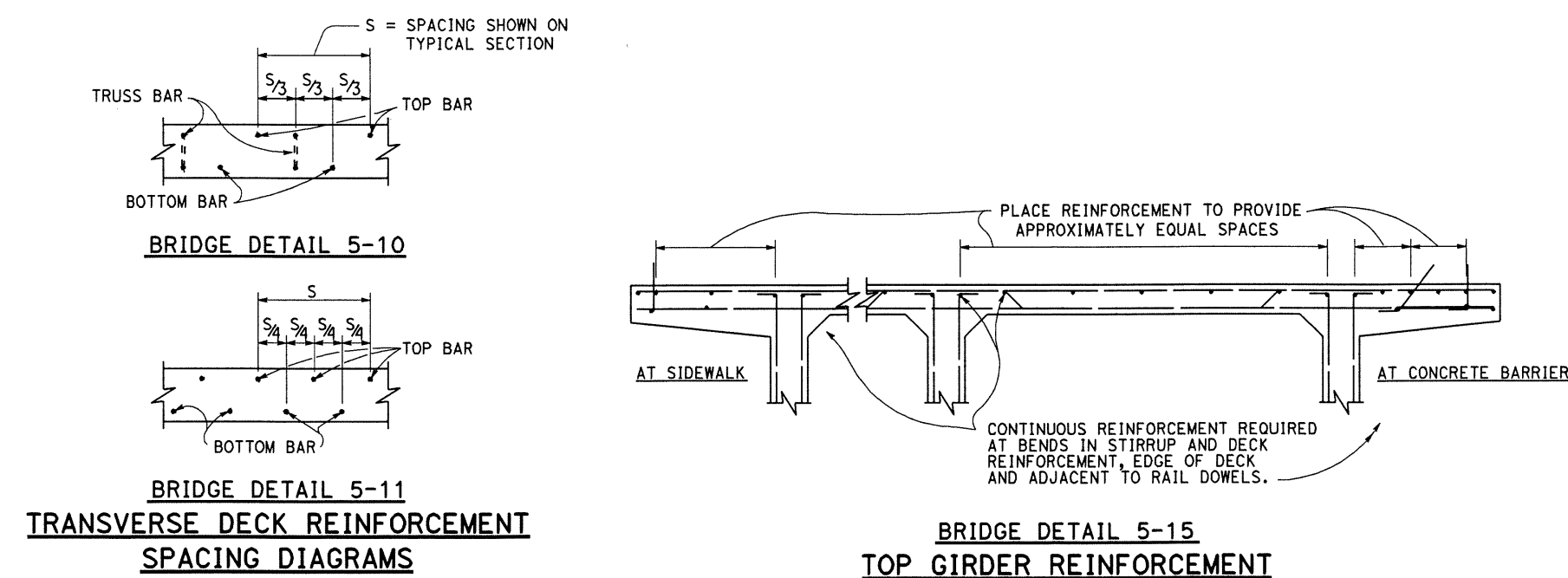
S4-20

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2010 STANDARD PLAN A10A

2010 STANDARD PLAN A100



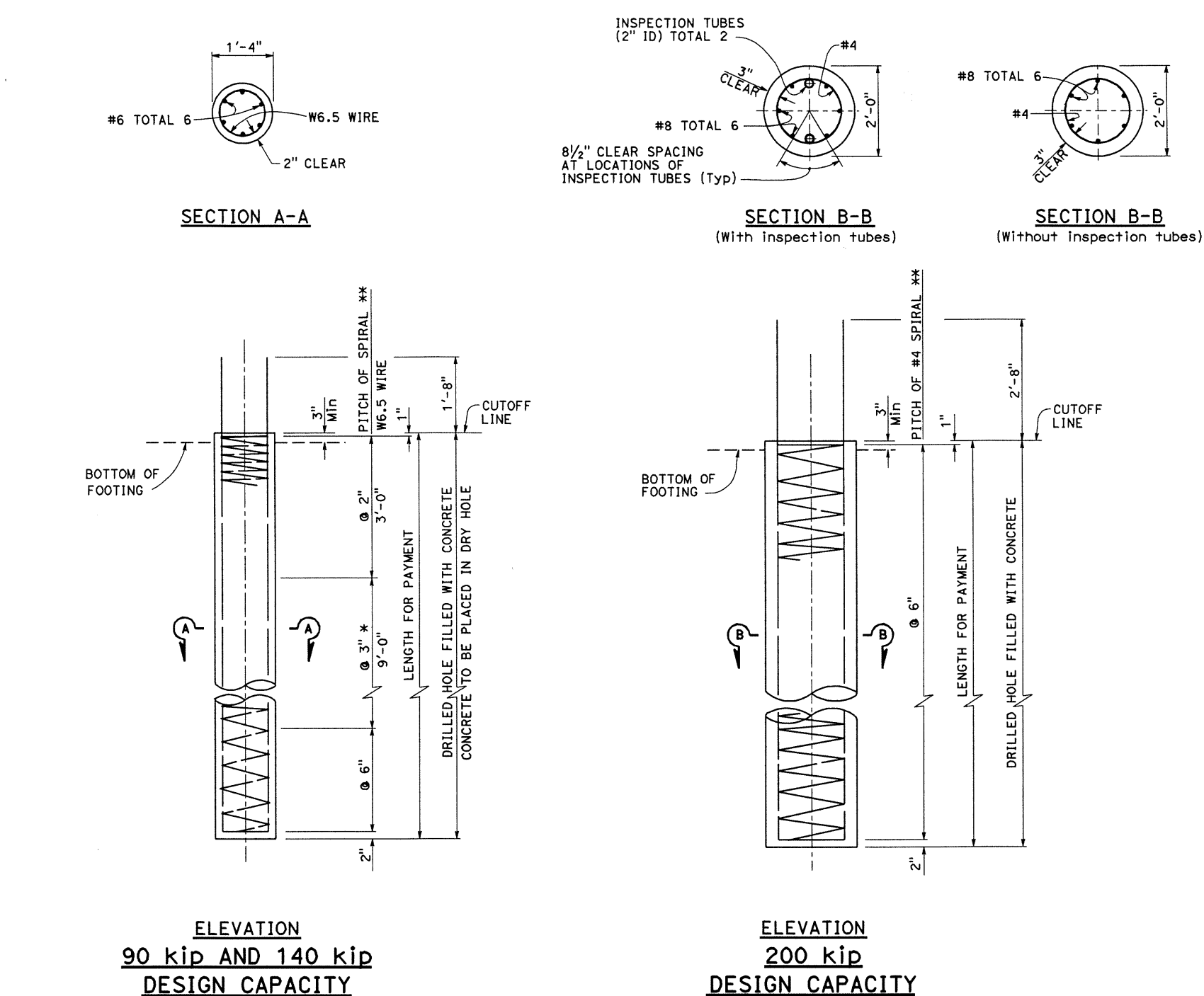


NOTES:

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)

TENSION:

56 kip (Service state)

140 kip (Nominal axial structural resistance)

200 kip PILE

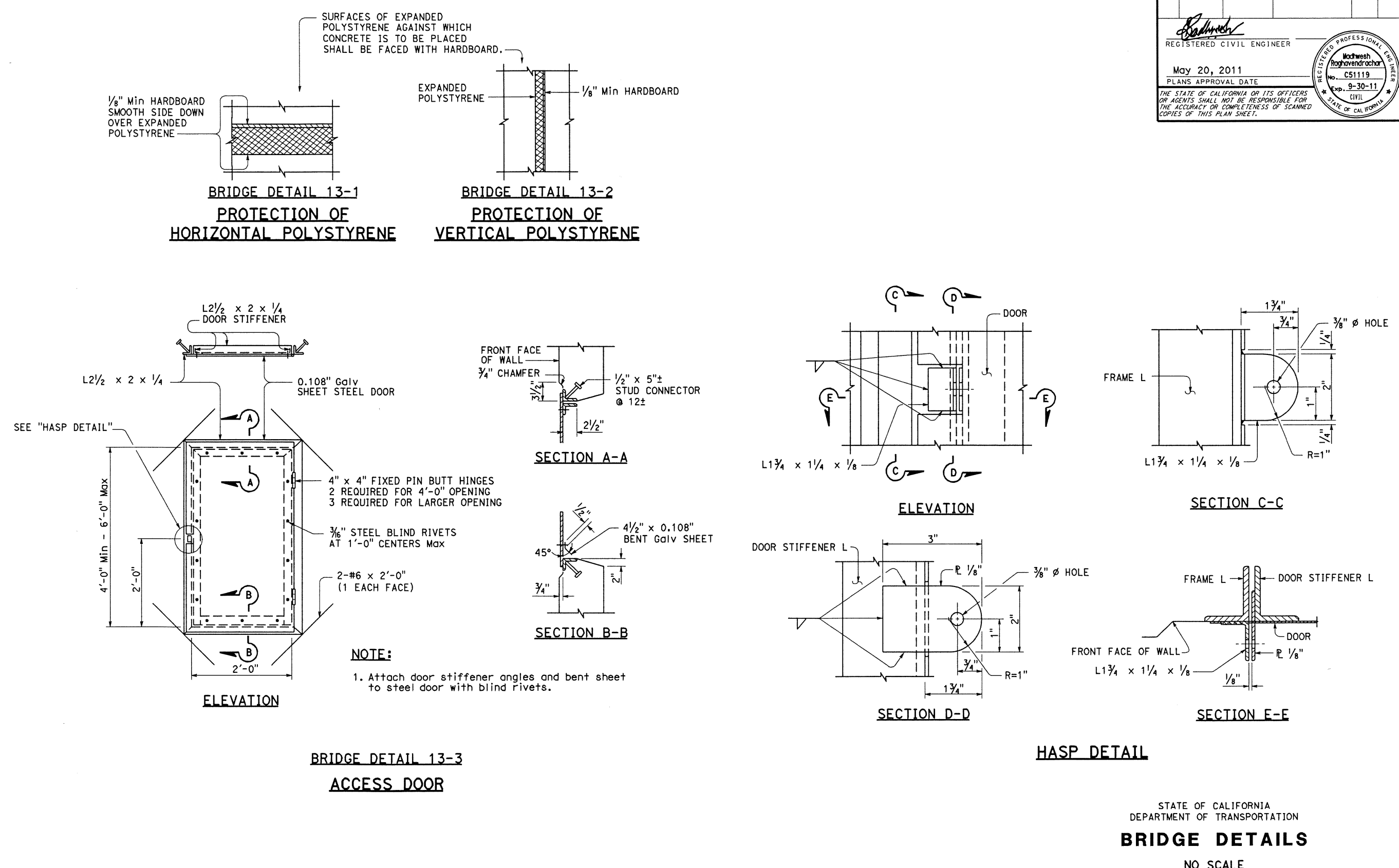
COMPRESSION:

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

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

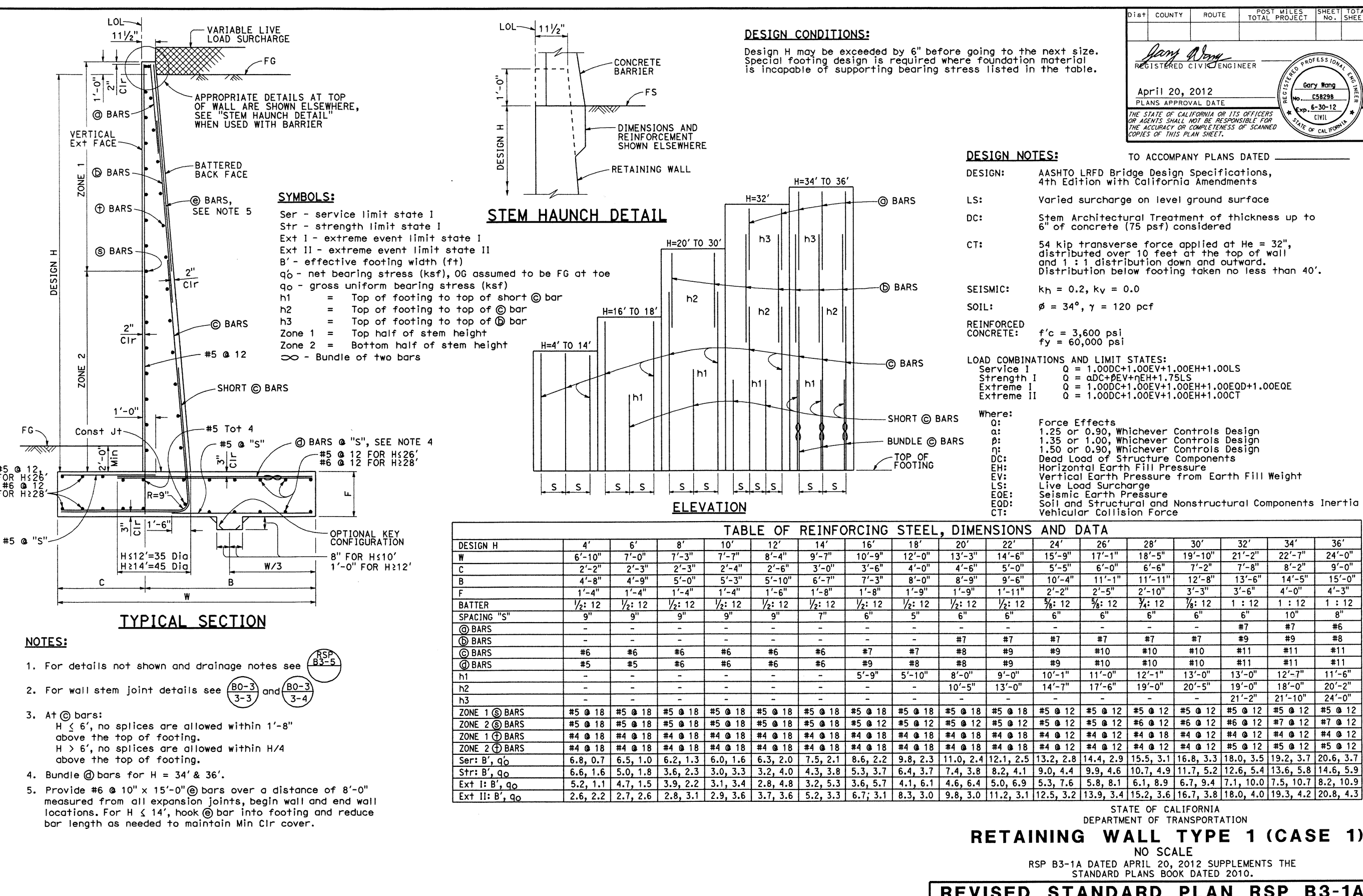
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
16" AND 24"
CAST-IN-DRILLED-HOLE
CONCRETE PILE
NO SCALE

B2-3



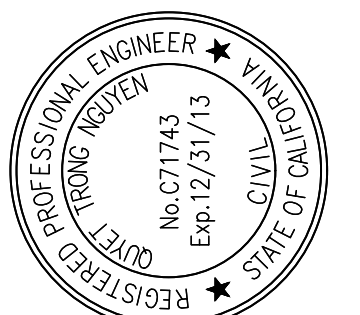
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
BRIDGE DETAILS
NO. SCALE

B0-13



REVISED STANDARD PLAN BSP B3-1A

AS-BUILT

[illegible]

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

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

DATE _____

DESIGNED BY:	QN	CHECKED BY:	
	DRAWN BY:	NL	GR
	DRAWING CODE:		
JOB NO.	11017		
PLOT DATE:	09/01/2016		
SCALE:	AS SHOWN		

COUNTY OF ORANGE
OC PUBLIC WORKS



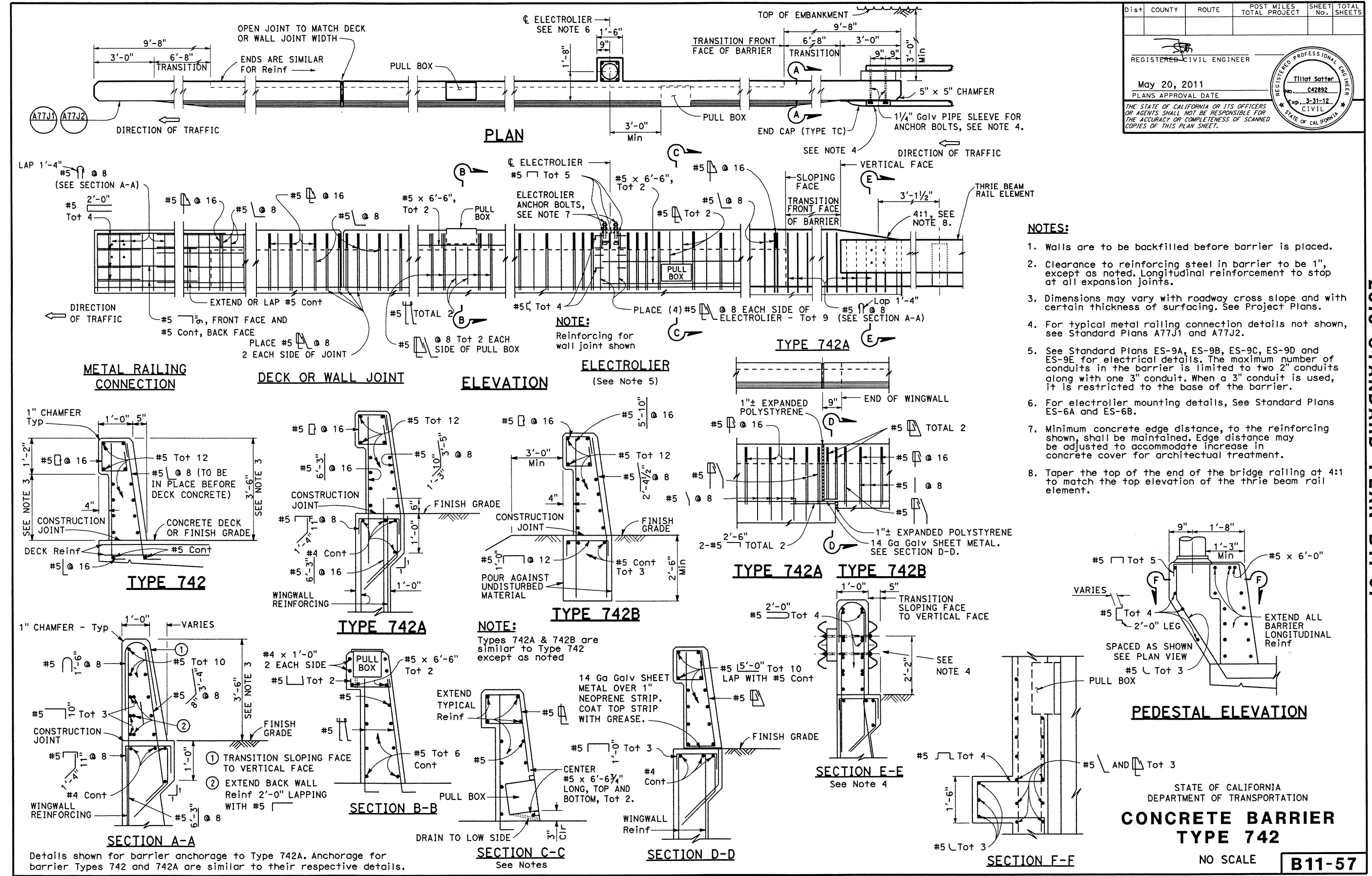
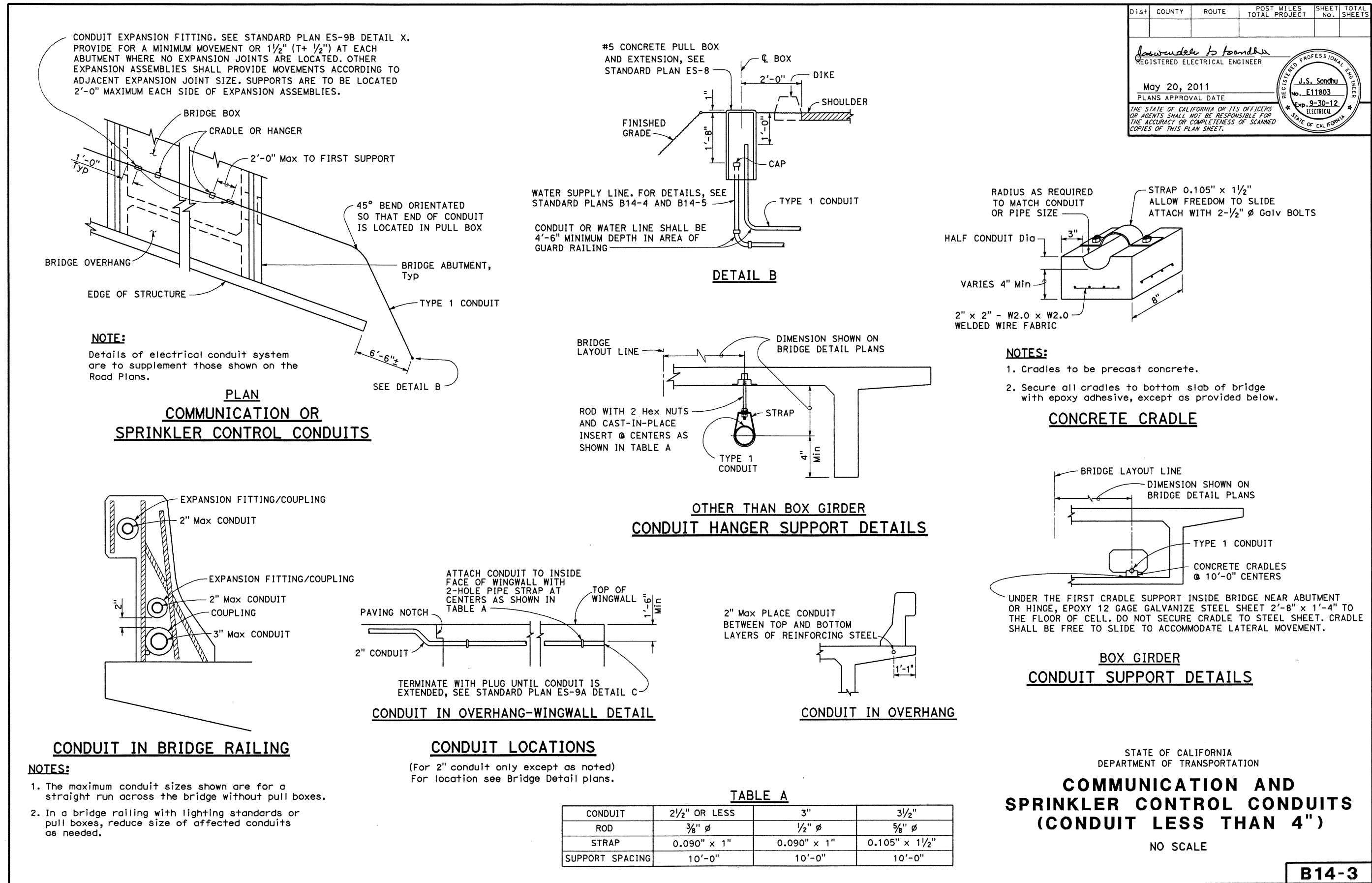
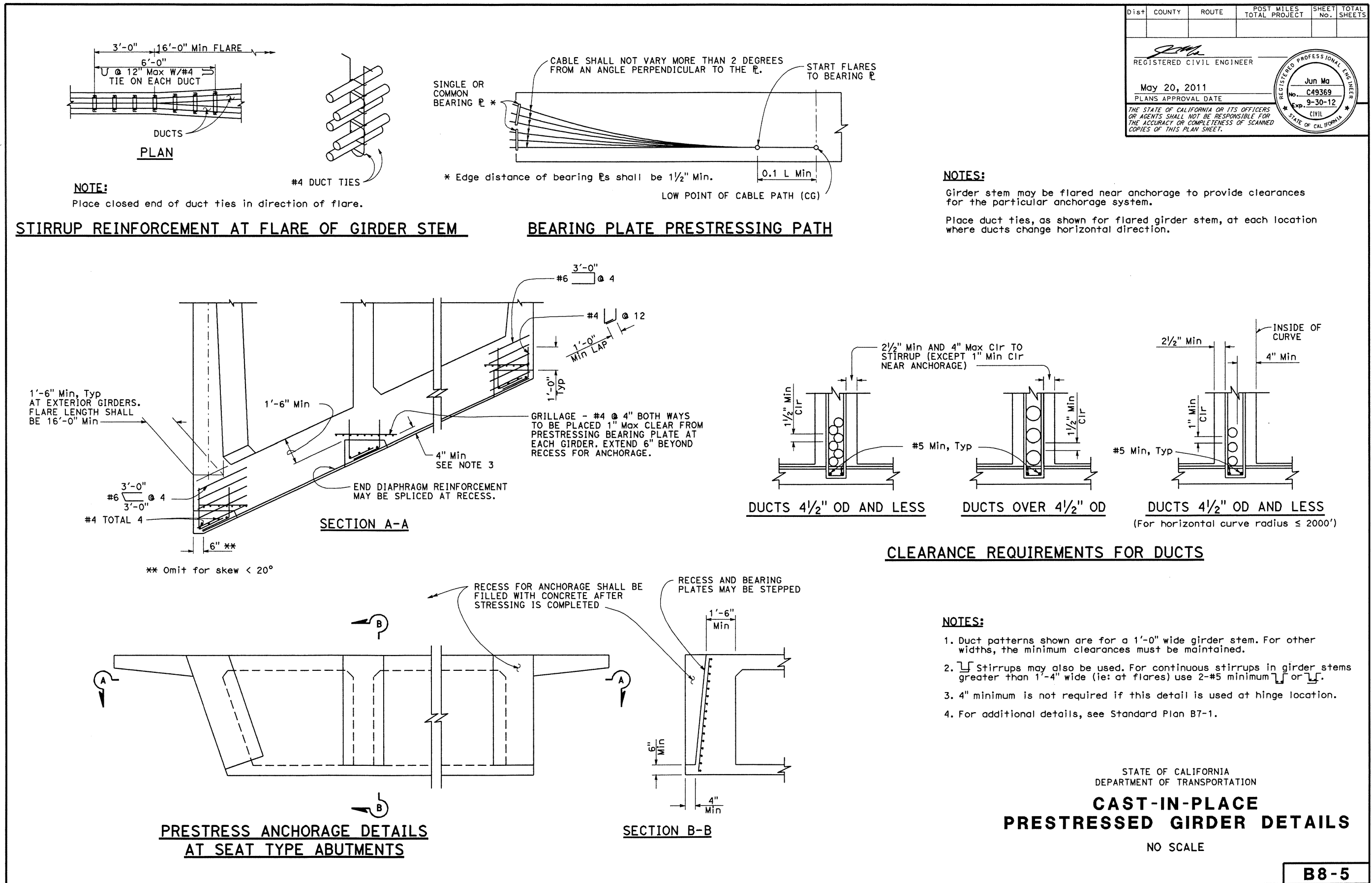
BRIDGE NO. 4
LA PATA AVENUE GAP CLOSURE

Sheet
Reference
Number

S4-23

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W:\1017 La Pata Ave Gap Closure\Construction Supports\As-builts\Bridge No. 4\20160831\S4-21_25 Standard Plan.dwg, Layout: S4-23 - Caltrans Standard Plans No.3, Aug 24 2016 3:12pm



COUNTY OF ORANGE
CALIFORNIA

DESIGNED BY: ON

DRAWN BY: NL

CHECKED BY: GR

DRAWING CODE: 10370 HENRY STREET, Suite 230, RIVERSIDE, CA 92503, Tel: (951) 687-1005

COUNTY OF ORANGE
OC PUBLIC WORKS

CALTRANS STANDARD
PLANS NO. 5

LA PATA AVENUE GAP CLOSURE
BRIDGE NO. 4

S4-25

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AS-BUILT

W:\11017 Le Pata Ave Gap Closure\Construction Supports\As-Built\Bridges No. 4\20160831\S4-25 - Caltrans Standard Plan.dwg, Layout: S4-25 - Caltrans Standard Plans No.5, Aug 24, 2016 3:42pm

IN-SITU LAB & FIELD TEST DESIGNATIONS	
AL	ATTEBERG LIMITS
CA	CHEMICAL ANALYSIS
CN	CONSOLIDATION
CU	CONSOLIDATED
UU	UNDRAINED TRIAXIAL
UU	UNCONSOLIDATED
UU	UNDRAINED TRIAXIAL
UC	UNCONFINED COMPRESSION
DS	DIRECT SHEAR
MD	MAX. DRY DENSITY
PP	POCKET PENETROMETER
SA	SHOVE ANALYSIS
SV	% FINE THAN #200 SIEVE
TV	TORVANE
%	% Passing # 200 Sieve
NSR	NO SOIL RECOVERY

TYPES OF BORINGS	
	3/4" CONE PENETROMETER
	SAMPLE BORING (DRY)
	ROTARY SAMPLE BORING (WET)
	AUGER BORING (DRY)
	TEST PIT
	DIAMOND CORE BORING
	JET BORING
	ELECTRONIC CONE PENETROMETER

The diagram illustrates a sample boring log with the following components and labels:

- Top Hole El:** Elevation at the top of the hole.
- Location:** The site's location, indicated by a north arrow.
- Groundwater Surface:** The level of the groundwater table.
- BT No:** Boring Test Number.
- Blow per foot (using 28 lb hammer with a 12" driver free fall):** A measurement scale on the left side of the log.
- 30'** and **60'**: Depth markers in feet.
- GSMS - γ_s Elev:** Groundwater Sample Measurement - Specific Gravity (Elevation).
- Date measured:** The date when the sample was taken.
- Description of material:** A column describing the soil or rock layers encountered.
- Sample Point:** The specific depth where a sample was collected.
- 500'**: A depth marker in feet.
- Released:** The point where the log was released or the boring was stopped.
- Boring Date:** The date the boring was performed.
- Pulled pipe:** The section of the pipe that was pulled out of the hole.
- SAMPLE BORING (DRY):** The title of the log, indicating it is a dry sample boring.

[illegible]

The collage contains several distinct diagrams and graphs:

- Top Left:** A diagram of a black hole with a central black circle labeled "BHO". To its right is a line graph with "GWS" and "DMS" labels. Below the graph is a horizontal axis labeled "Location".
- Top Right:** A line graph showing "Driving rate in seconds per foot" on the y-axis. Two data series are plotted: "Lackerton-Terry" (a jagged line) and "Tishpi, or as noted?" (a smoother line). The x-axis is labeled "Time".
- Middle Left:** A bar chart titled "Top Hole El." with a y-axis ranging from 0 to 1200 in increments of 100. The bars represent different data points.
- Middle Right:** A diagram showing a vertical line with a circle at the top. Text labels include "No count record" and "Pulled out of hole".
- Bottom Left:** A diagram showing a vertical line with a circle at the top. Text labels include "Material change" and "Material change".
- Bottom Right:** A diagram showing a vertical line with a circle at the top. Text labels include "Material change" and "Material change".

