



STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 16 STATE HOUSE STATION
 AUGUSTA, MAINE 04333-0016

Janet T. Mills
 GOVERNOR

Bruce A. Van Note
 COMMISSIONER

July 31, 2025
 Subject: Woodland Fish Passage
 WIN: PH20250514WFP
 Location: **Baileyville**
Amendment No. 12

Dear Sir/Ms.:

REMOVE, select sheets of “Exhibit B Design Plans” and dated June 3, 2025, and **REPLACE** with the attached revised sheets of “Exhibit B Design Plans” dated July 9, 2025. Revised sheets are listed in the Drawing Updates table below, and updates are clouded for visibility. These corrections are not directly related to RFI responses that have been provided but were identified during evaluation of the questions.

Drawing Updates – Corrections not in RFI Responses		
Drawing No.	Title	Exhibit
S-110	Fish Lift Concrete Entrance Flume Embedment Details	B-3
S-141	Enlarged Fish Ladder Foundation Plan	B-3
S-149	Column Cap Sections & Details	B-3
S-181	Access Bridge Abutment 1 Sections	B-3
S-416	Fish Ladder Platform Framing Details	B-3
S-417	Fish Ladder Platform Framing Details	B-3
S-456	Foundation Plans and Sections	B-3
S-502	Structural Standard Details	B-3
S-504	Structural Standard Details	B-3

The following questions have been received:

192. **Question:** The primary and alternate mill source breakers are listed as 800A trip. Should this be 400A? Reference drawing EE-BA-001.

Response: Correct. Both feed breakers should be 400A.

193. **Question:** Is Woodland Pulp supplying the primary and alternate breakers? Reference drawing EE-BA-001.

Response: WPLLC engineers provided instructions on how to tie into existing loadcenter C, so the Contractor shall provide the breakers at both locations.

Source C172 is intended to be connected to a spare size 3 starter slot in a GE MCC. A new bucket will be needed for this.

Source B86 is intended to be connected to B8-TX-6.

194. **Question:** Drawing EE-CJ-009 shows rigid conduit sleeves extending to the cable tray above the equipment. How are the IAC cables in the tray supposed to terminate into this sleeve? No code-compliant method comes to mind.

Response: Rigid conduit sleeves are to act as supports for the IAC cables as needed for the drop from the cable tray to the MCC. The armored jacket is to be terminated on the top of the MCC with killark MC series "Clencher" connectors.

195. **Question:** The finish schedule indicates Trash Rack Framing to be galvanized steel. Does this pertain to the entire trash rack system, or can the panels themselves be composite?

Response: Please use the steel notes and coating schedule shown on 100-01 for the intake steel (Kleinschmidt scope).

196. **Question:** Project IFB Specifications do not specify the allowable spacing requirements for 4" SS Sch-40 pipe. Please provide.

Response: This question is assumed to refer to the embedded stilling wells for the water level sensors. Still well locations are shown on Sheet C-100 per Key Note 5 and align with water level sensor locations on Sheet M-002; there is no applicable standard spacing.

197. **Question:** Please confirm the size of the mesh wire found on drawing S-231 is to be 10'x3'. Please provide the material specification for the mesh.

Response: Wire mesh will be 10' by 10' in elevation, 9-gage galvanized steel, and with openings no larger than 4" by 4". Associated revisions to S-231 will be forthcoming.

198. **Question:** Section 03 70 00 Mass Concrete states that structural mass concrete requirements shall only apply to the large concrete sections of the fish lift concrete flume. Please confirm that mass concrete requirements do not apply to other concrete elements that may meet the dimensional definitions of mass concrete such as bridge pier or abutments.

Response: Confirmed. Mass concrete only applies to the large concrete sections of the fish lift concrete flume.








199. **Question:** Sheet S-459 contains a call out for galvanized steel casing for micropile as well as galvanized top plate and stiffeners. The micropile specifications do not mention the requirement for galvanized casing. Considering the welding required of the plates and stiffeners and the installation of the casing, please confirm if the micropile casings are required to be galvanized.

Response: Carbon steel is acceptable. Refer to responses to Questions 149 through 151.

200. **Question:** The existing drawings that have been provided to date do not clearly detail the access to the interior of the intake structure where penetrations are required for the fish and eel bypass piping included in Bid Option. Please provide additional detail for access to the locations of the pipe penetrations. It appears that walls with 3' diameter openings separate the penstocks at the bent locations. It does not appear that there is clear access from the access hatch to all of the interior of the intake structure. Please clarify the access within the intake structure and between penstocks.

Response: Refer to the responses to Question 123 in Amendment No. 10 showing the access hatch and vents between Bents 7 and 23 and to Question 91 in Amendment No. 8. Vents 1, 2, and 3 shown on Sheet 200-01 provide access from the deck to Units 4/5/6 chambers, each separated by the noted isolation walls. Historical intake drawings were provided within the SharePoint folder shared with Bidders from Amendment No. 5, and they indicate the locations of dividing walls for each Units 4/5/6 and of dividing walls between the penstock inlets of the inner forebay for Units 7/10 and Units 8/9. Refer to the following list of Intake Drawings that were provided in the Existing Drawings – Amendment 8 SharePoint folder.

Bidder Share Files - Amendment 5 > Existing Drawings - Amendment 8 > Intake Drawings

 Name
 8564-2074 Concrete Layout for Head Gates.pdf
 8564-2077 Steel Work For Head Gates Racks For Grinder Room (003).pdf
 D8564-2079.jpg
 Drawing D8564-2007.jpg
 Plan Units #5 & #6.pdf
 X8564-0504 Plan Units #7 #10 & #8 #9.jpg

201. **Question:** Please confirm the embedded steel shown on drawing 600-01 of the Kleinschmidt drawing package is to be painted in accordance with the specification on drawing 100-02.

Response: The embedded steel shown in the 600 series does not need to be painted and can be left plain.

202. **Question:** Please provide details for the anchor studs shown on drawing 600-01 for both the C12x20.7 channel and vent angle frames.

Response: Please use ¾" diameter by 10" long anchor studs for both the channel and vent angle frames.

203. **Question:** Please provide strap anchor detail for the footing of the W24x84 guide frames on the trash rack shown on drawing 300-09

Response: The strap anchor size, length, thickness, and weld details have been provided on 300-09 (lower left corner). Please clarify if additional information is desired.

204. **Question:** Please confirm only bents 0-15 will need the new trash-raker support beam, W8 strut and embedded C12x20.7.

Response: The trash raker support beam is required the full length of the intake. Refer to Drawing 200-02 for steel that has already been installed. Bents 0 – 14 require all new steel. Bents 15 – 23 already have both the W24 inclined column and W8 strut except at bent 22 where the existing tube strut needs to be replaced with a W8. Bents 15 – 23 also need the new W12 above the W8 strut to support the longitudinal trash raker supports. The embedded C12 is only required for the extents shown on 600-01 (bents 0 – 6).

205. **Question:** The Bidding Instructions Line 2c lists the "completed Schedule of Items" to be submitted with the bid. Line 3 of the Bidding Instructions says to include prices for all items in the "Price Component Schedule...". The only bid form provided for submittal is the "Price Component Schedule" updated via Amendment No. 11. Please confirm the Price Component Schedule (provided in Amendment No. 11) is the only form which the Contractor will use to submit pricing for the project.

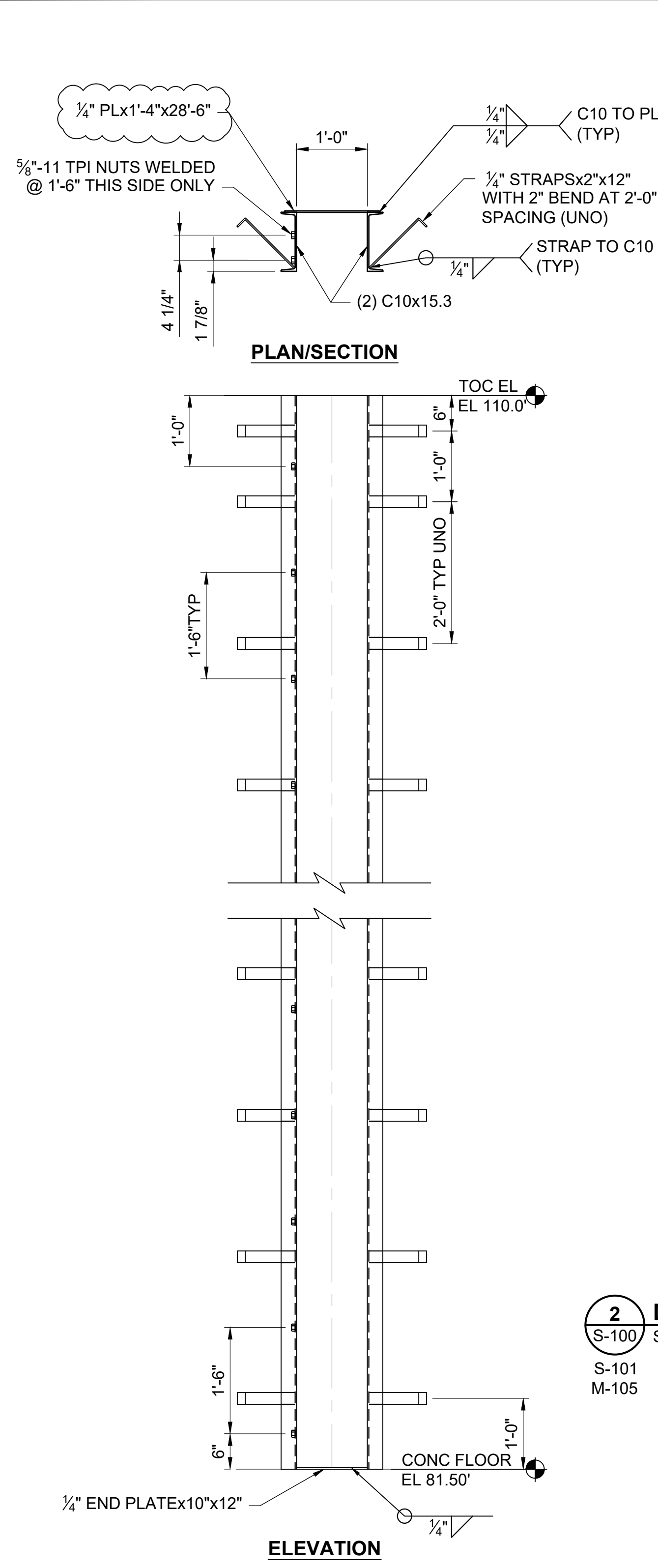
Response: Confirmed; submit only the Price Component Schedule updated in Amendment No. 11. The "Schedule of Items" and the "Price Component Schedule" are simply mismatched naming conventions for the same pricing document.

Consider these changes and information prior to submitting your bid on **August 6, 2025**.

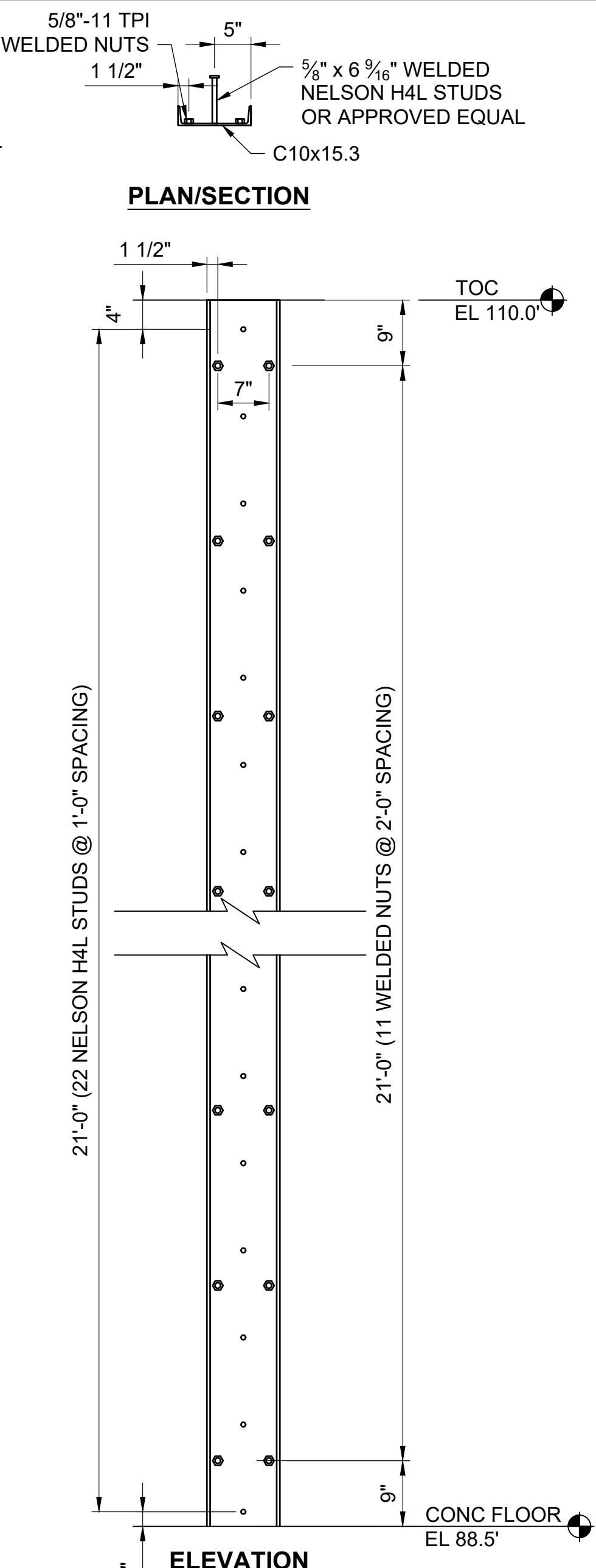
Sincerely,



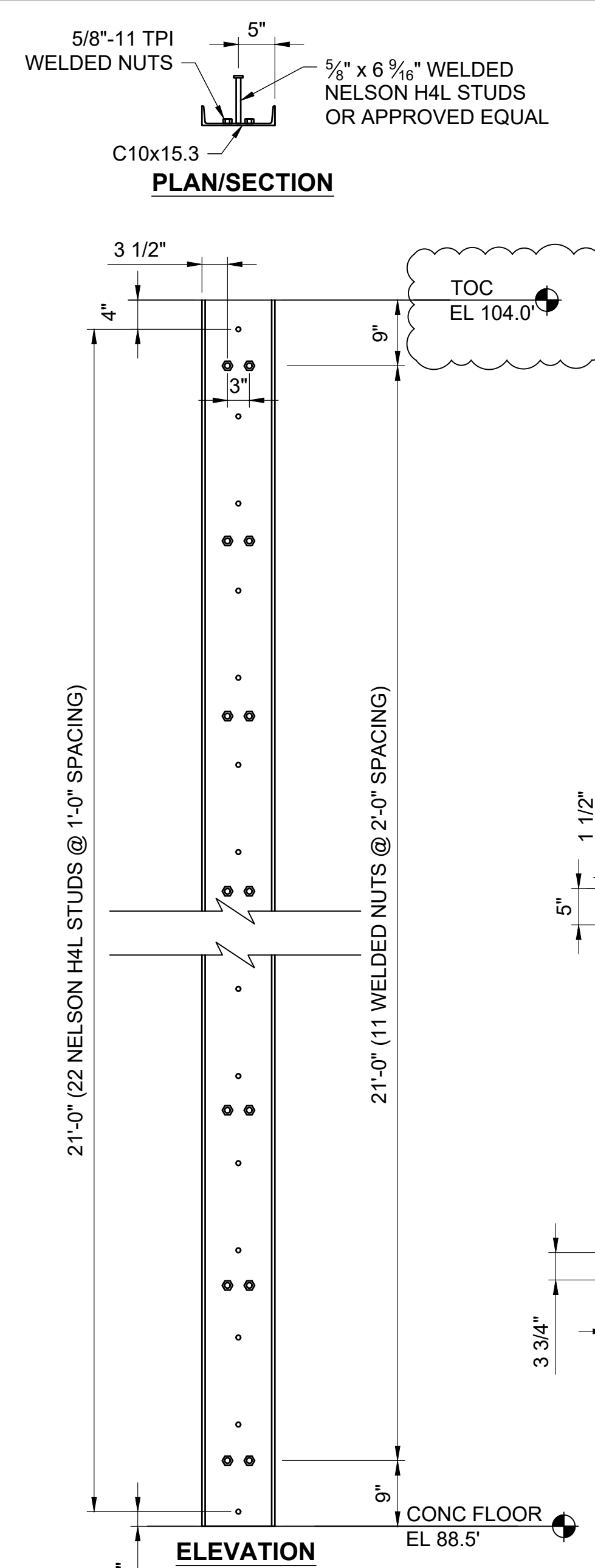
George M. A. Macdougall P.E.
Contracts & Specifications Engineer



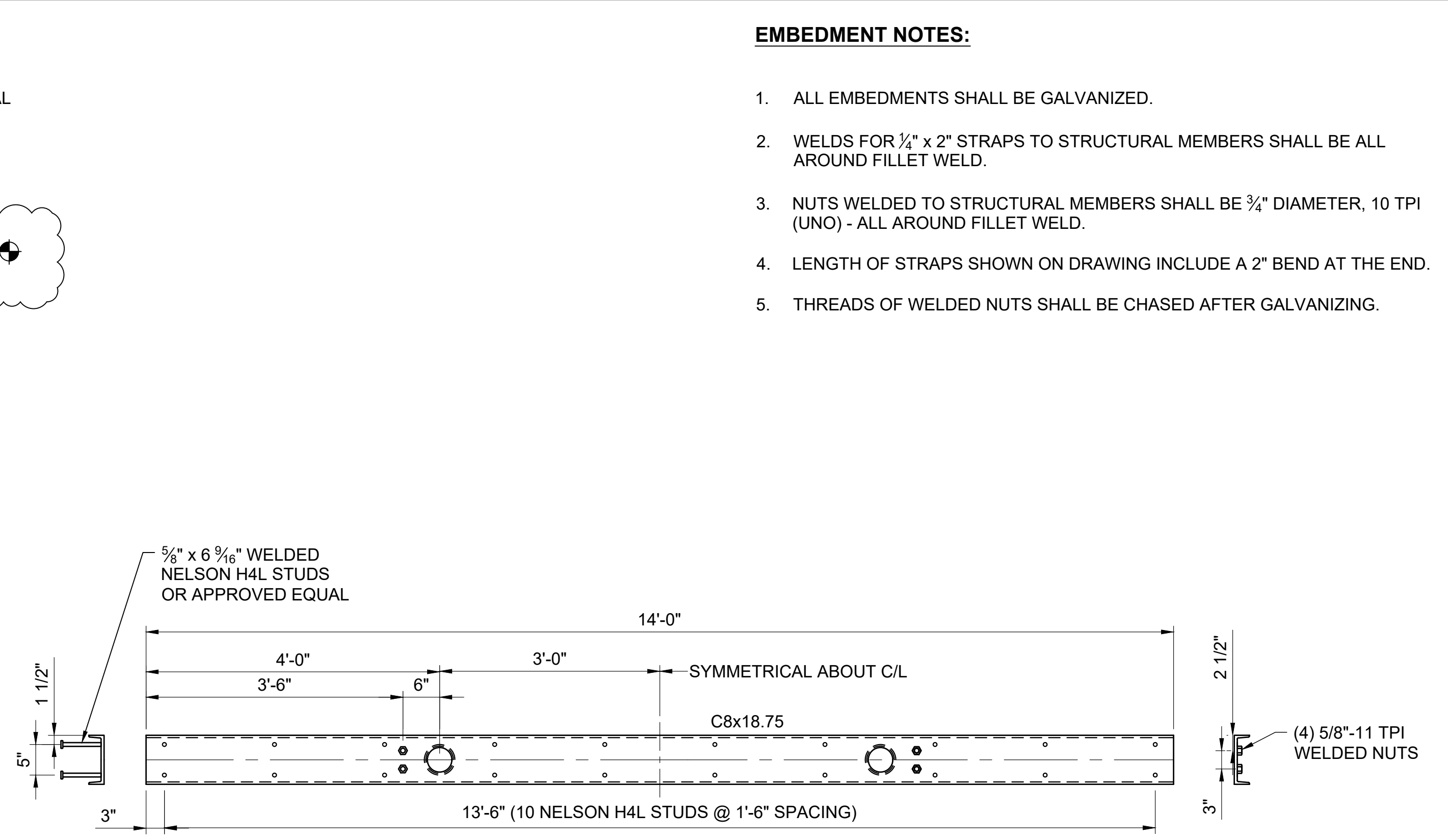
1 HOPPER RAIL WALL EMBEDMENTS (4 LOC)
S-100 SCALE: 3/4"=1'-0"
M-115



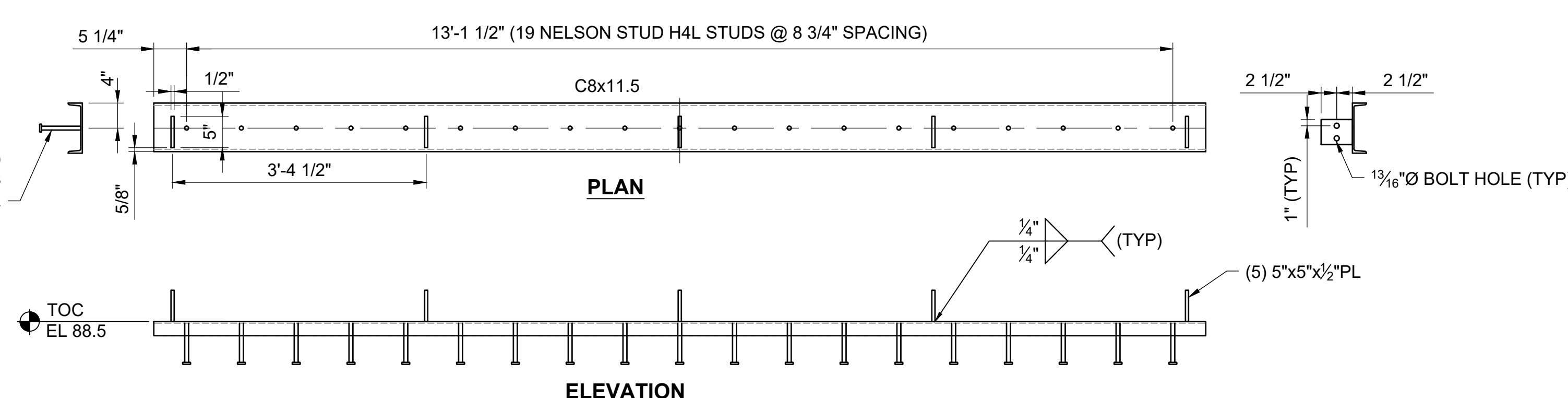
2 D/S V-GATE WALL EMBEDMENTS (2 LOC)
S-100 SCALE: 3/4"=1'-0"
S-101
M-105



3 U/S V-GATE WALL EMBEDMENTS (2 LOC)
S-100 SCALE: 3/4"=1'-0"
M-105



4 V-GATE FLOOR EMBEDMENTS (1 LOC)
S-101 SCALE: 3/4"=1'-0"
M-102



5 UPSTREAM SCREEN FLOOR EMBEDMENT (1 LOC)
S-101 SCALE: 3/4"=1'-0"
M-119

- EMBEDMENT NOTES:**
1. ALL EMBEDMENTS SHALL BE GALVANIZED.
 2. WELDS FOR 1/4" x 2" STRAPS TO STRUCTURAL MEMBERS SHALL BE ALL AROUND FILLET WELD.
 3. NUTS WELDED TO STRUCTURAL MEMBERS SHALL BE 3/4" DIAMETER, 10 TPI (UNO) - ALL AROUND FILLET WELD.
 4. LENGTH OF STRAPS SHOWN ON DRAWING INCLUDE A 2" BEND AT THE END.
 5. THREADS OF WELDED NUTS SHALL BE CHASED AFTER GALVANIZING.



ISSUED FOR BID
NOT FOR CONSTRUCTION
MAY 2, 2025

5/2/2025	ISSUED FOR BID	M. GRAESER
REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
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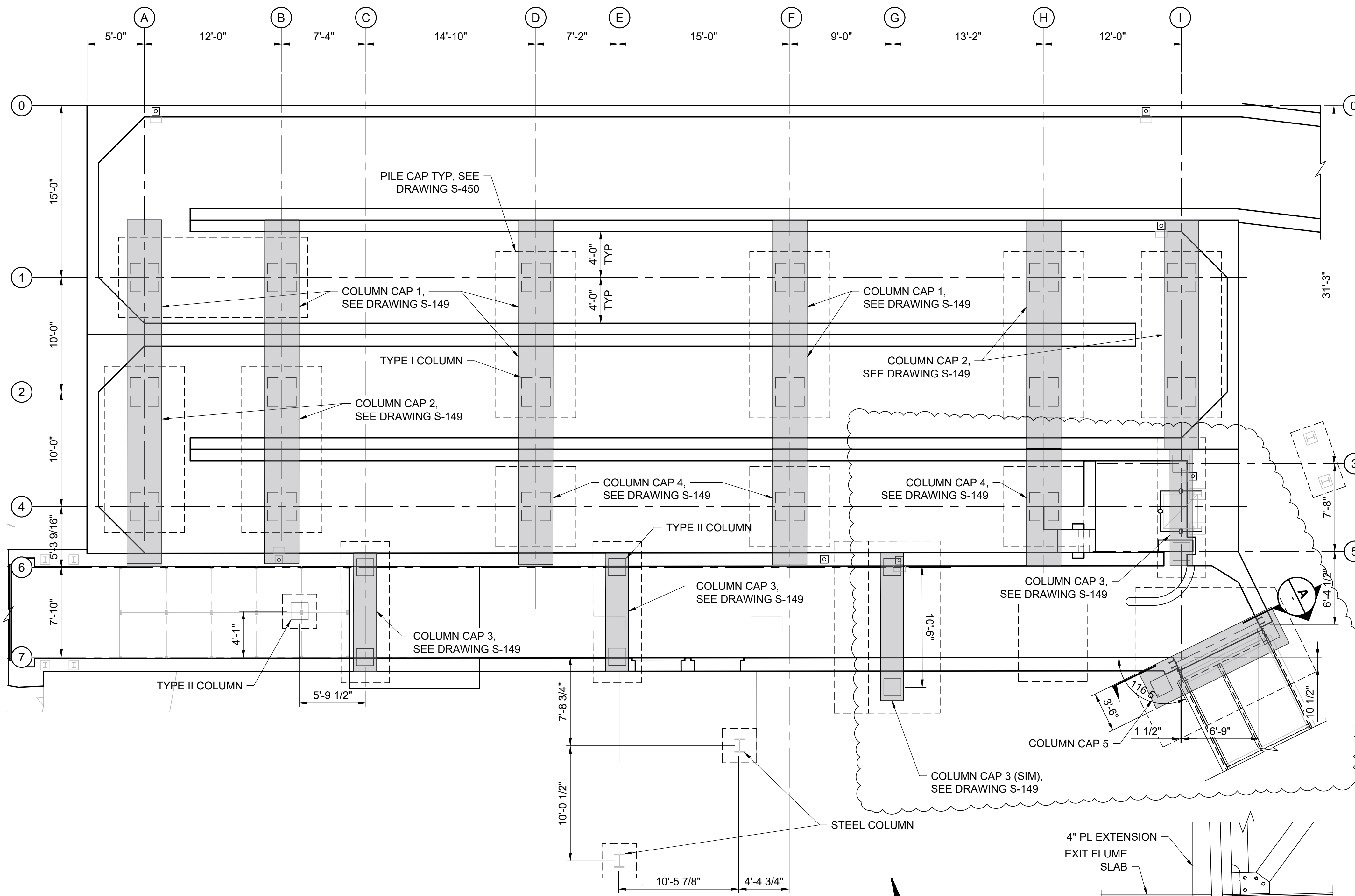
WOODLAND FISH LIFT PASSAGE DESIGN
MAINE DEPARTMENT OF MARINE RESOURCES

FISH LIFT CONCRETE ENTRANCE FLUME EMBEDMENT DETAILS

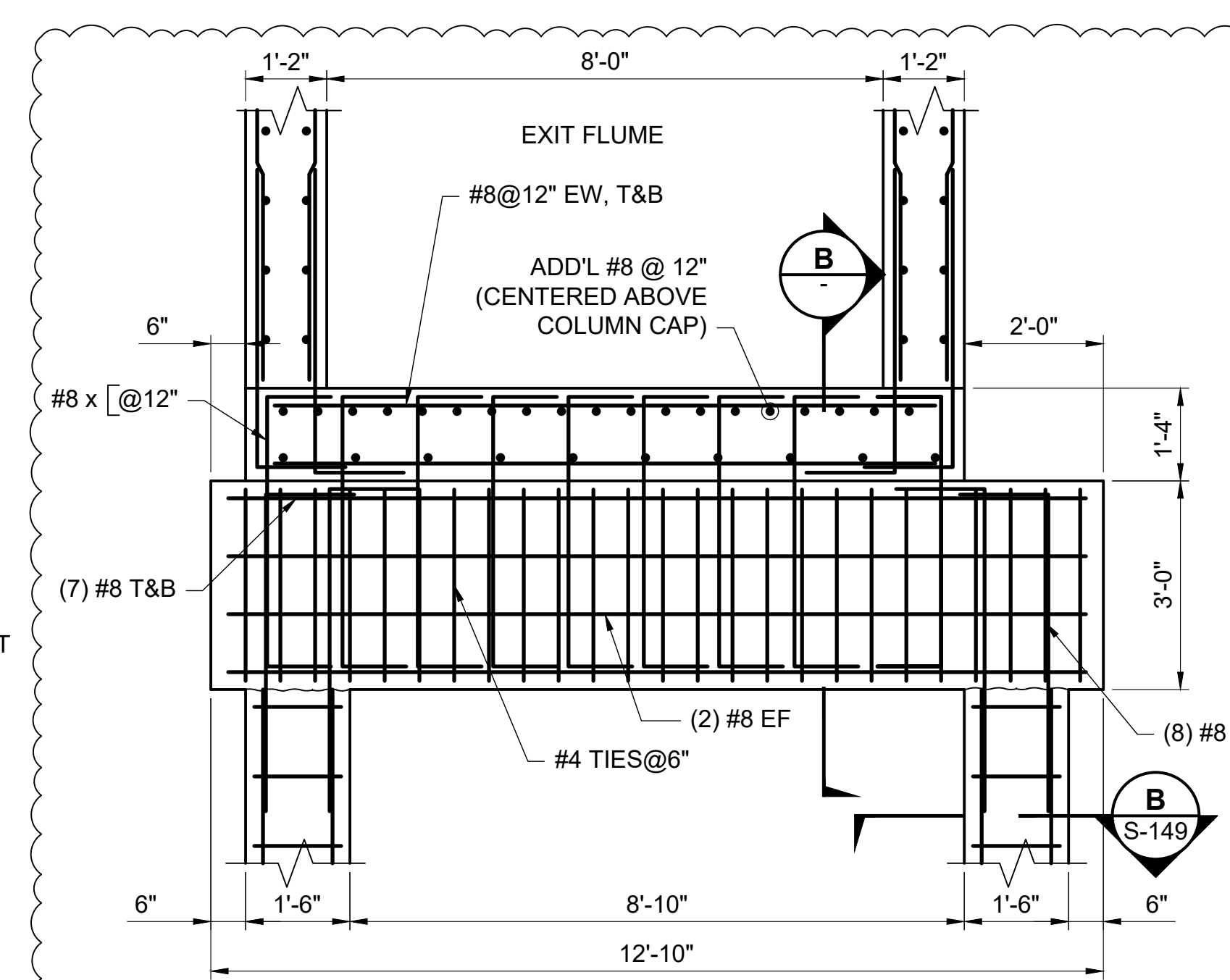
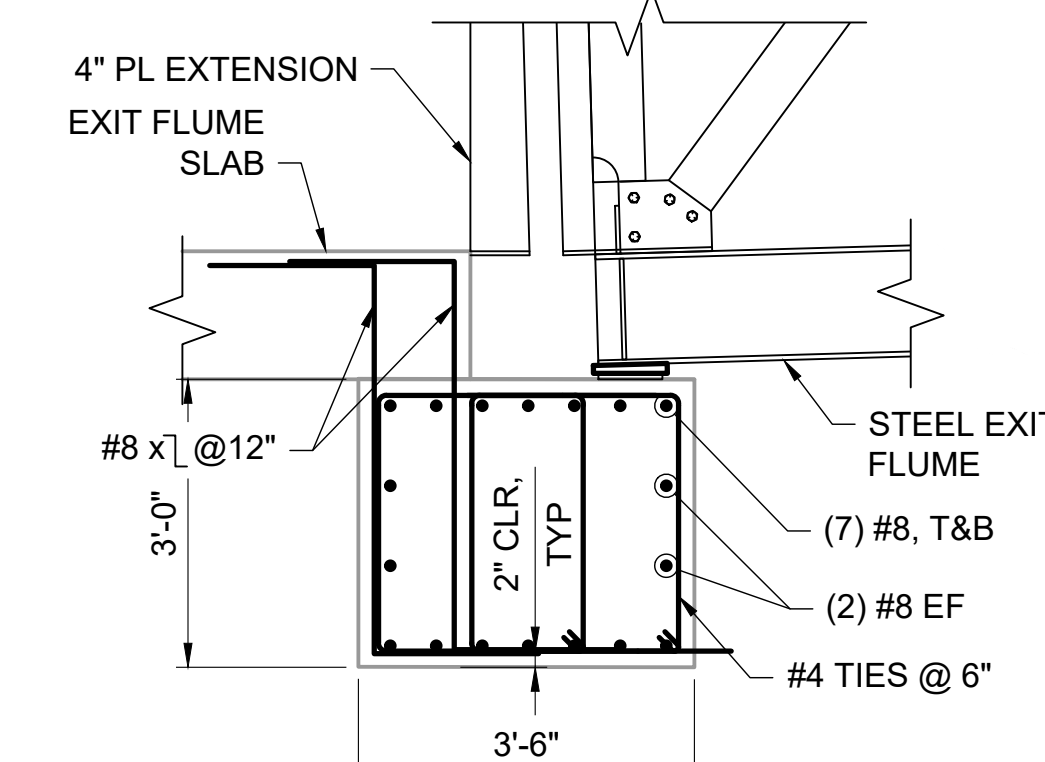
PROJECT:	16667
DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
APPROVED BY:	M. GRAESER
SHEET:	73 OF 240
DRAWING:	S-110

NOTE:

1. GRATING, STAIRS AND RAILING NOT SHOWN FOR CLARITY.
2. FISH LADDER WEIRS NOT SHOWN FOR CLARITY.



1 FISH LADDER - ENLARGED PLAN
SCALE: 3/16" = 1'-0"



LOCATION	COLUMN			COLUMN CAP	
	TYPE	SIZE	DETAIL	TYPE	DETAIL
GL 1-A	I	30" x 30"	A/S-149	1	1/S-149
GL 1-B	I	30" x 30"	A/S-149	1	1/S-149
GL 1-D	I	30" x 30"	A/S-149	1	1/S-149
GL 1-F	I	30" x 30"	A/S-149	1	1/S-149
GL 1-H	I	30" x 30"	A/S-149	2	2/S-149
GL 1-I	I	30" x 30"	A/S-149	2	2/S-149
GL 2-A	I	30" x 30"	A/S-149	2	2/S-149
GL 2-B	I	30" x 30"	A/S-149	2	2/S-149
GL 2-D	I	30" x 30"	A/S-149	1	1/S-149
GL 2-F	I	30" x 30"	A/S-149	1	1/S-149
GL 2-H	I	30" x 30"	A/S-149	2	2/S-149
GL 2-I	I	30" x 30"	A/S-149	2	2/S-149
GL 3-I	II	18" x 18"	B/S-149	3	3/S-149
GL 4-A	I	30" x 30"	A/S-149	2	2/S-149
GL 4-B	I	30" x 30"	A/S-149	2	2/S-149
GL 4-D	I	30" x 30"	A/S-149	4	4/S-149
GL 4-F	I	30" x 30"	A/S-149	4	4/S-149
GL 4-H	I	30" x 30"	A/S-149	4	4/S-149
GL 5-I	II	18" x 18"	B/S-149	3	3/S-149
GL 6-C	II	18" x 18"	B/S-149	3	3/S-149
GL 6-E	II	18" x 18"	B/S-149	3	3/S-149
GL 6-G	II	18" x 18"	B/S-149	3	3/S-149
GL 7-C	II	18" x 18"	B/S-149	3	3/S-149
GL 7-E	II	18" x 18"	B/S-149	3	3/S-149



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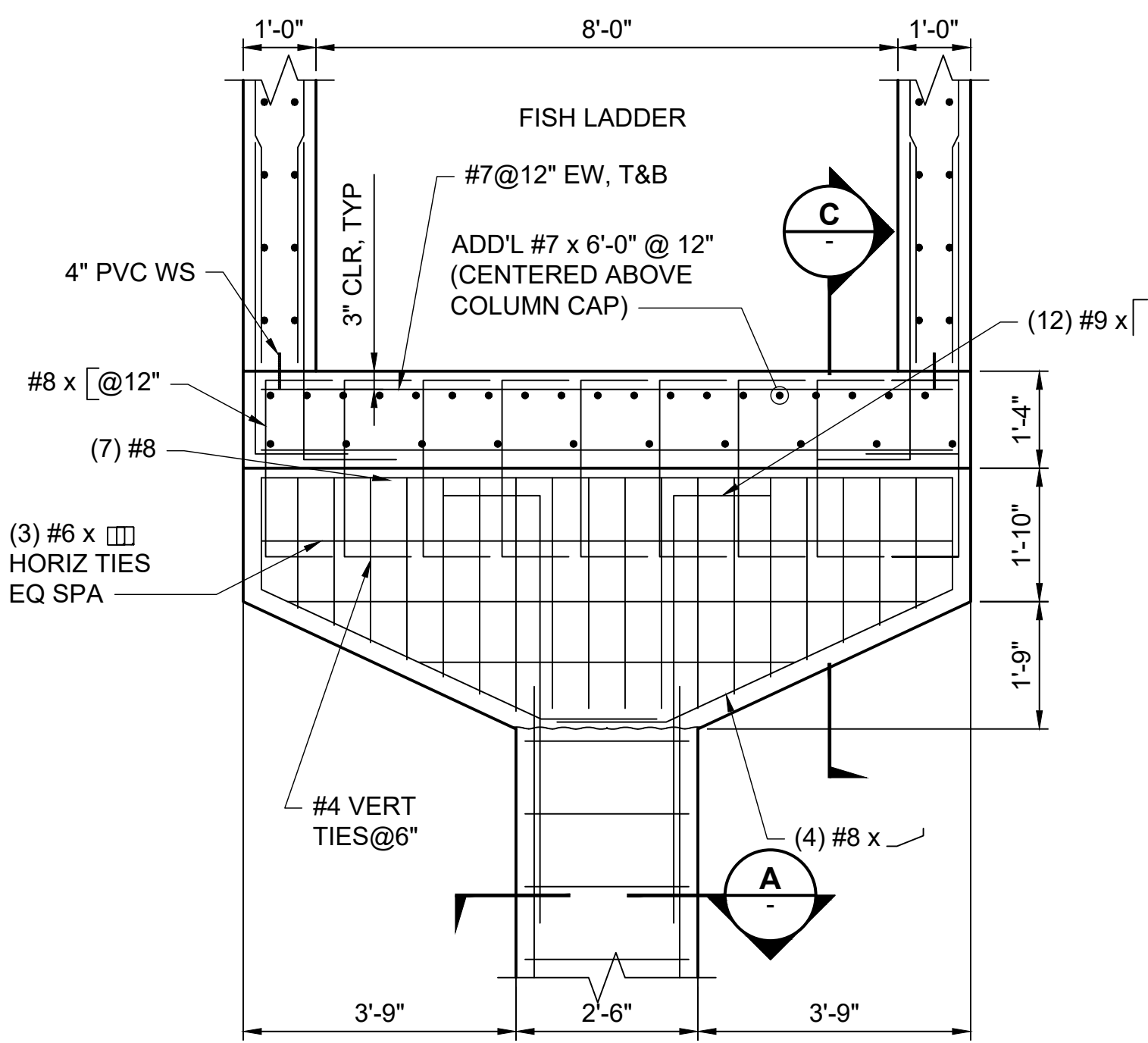
REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY
5/2/2025	ISSUED FOR BID	M. GRAESER

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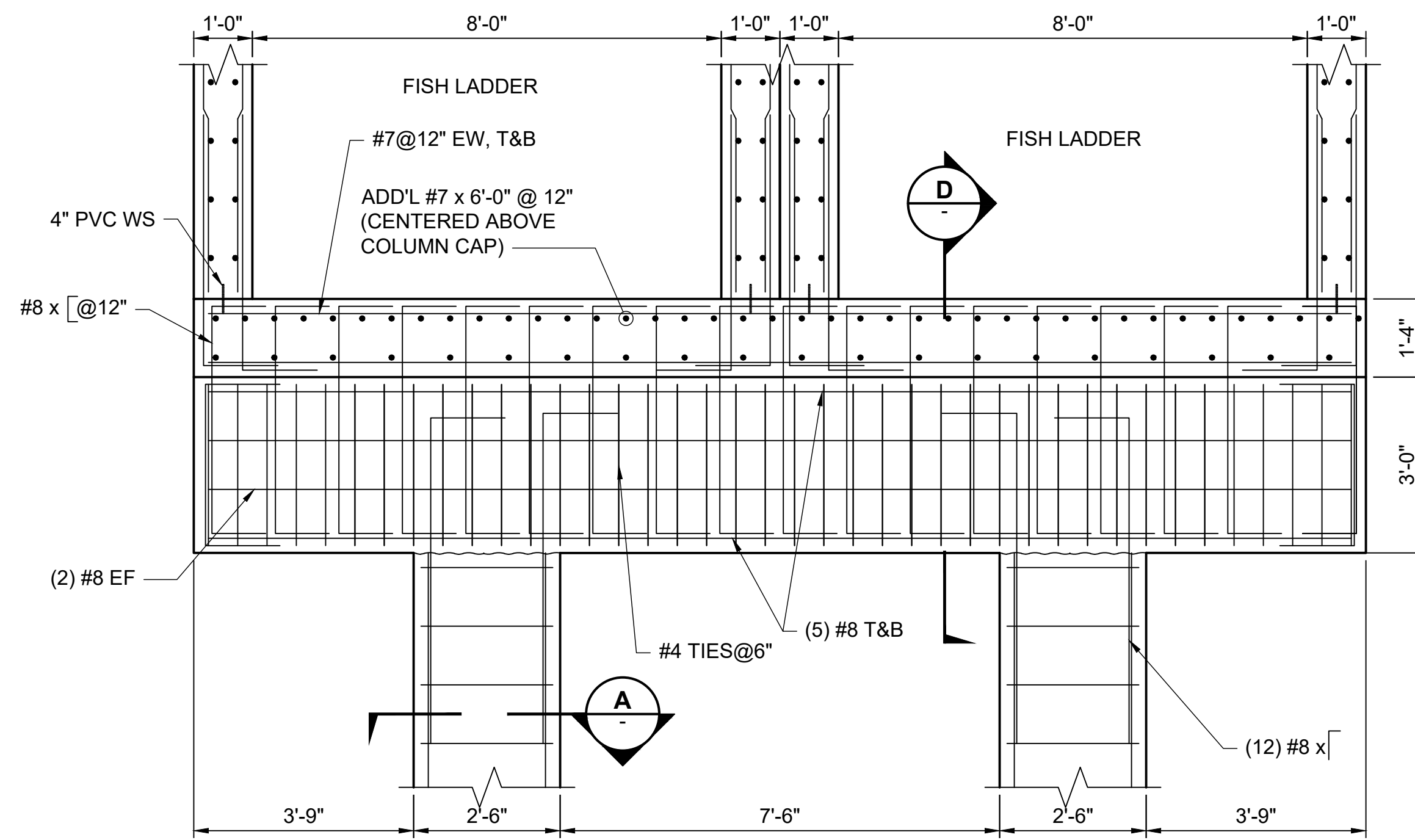
WOODLAND FISH LIFT PASSAGE DESIGN
MAINE DEPARTMENT OF MARINE RESOURCES

ENLARGED FISH LADDER FOUNDATION PLAN

PROJECT:	16667
DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
APPROVED BY:	M. GRAESER
SHEET:	95 OF 240
DRAWING:	S-141



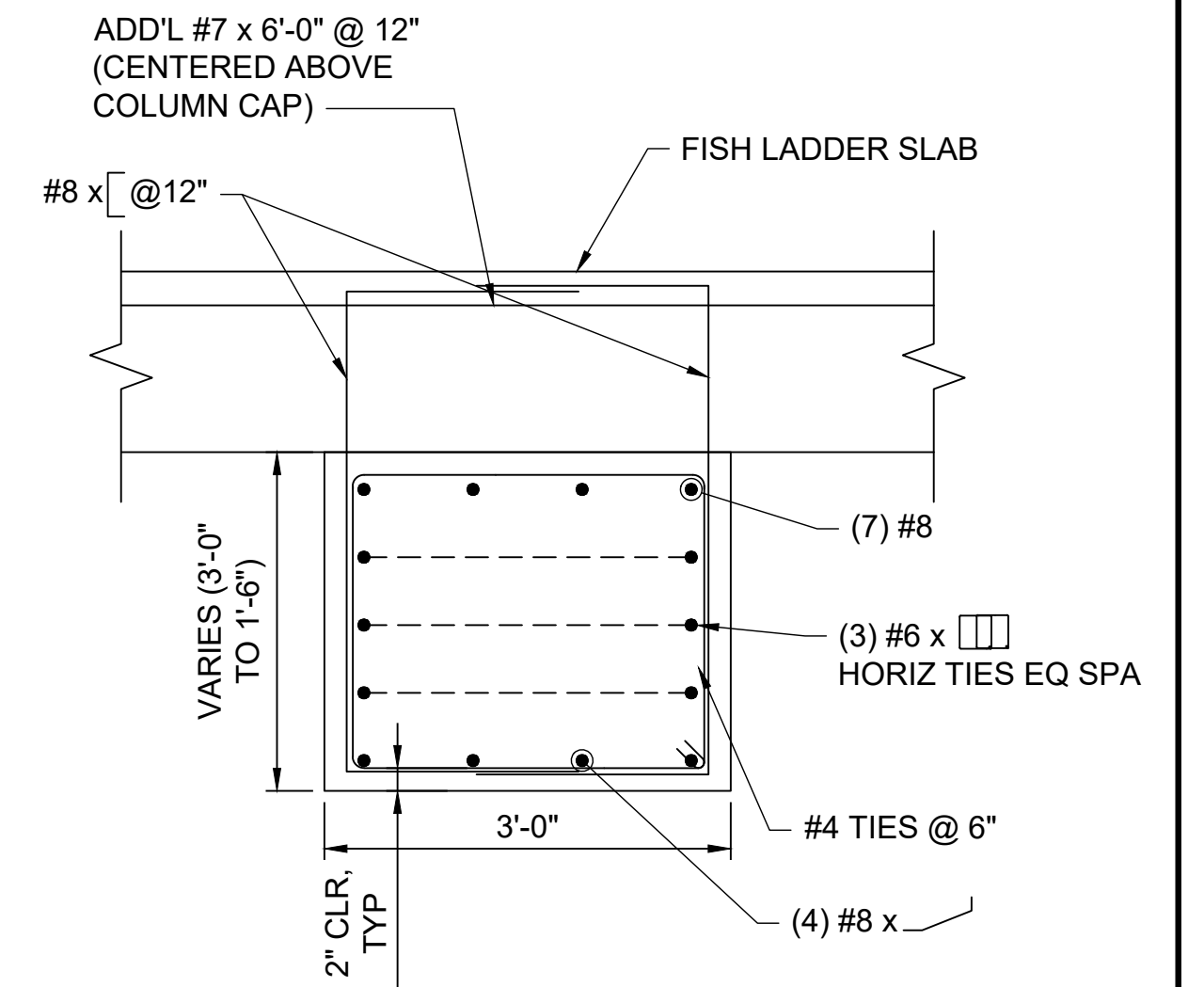
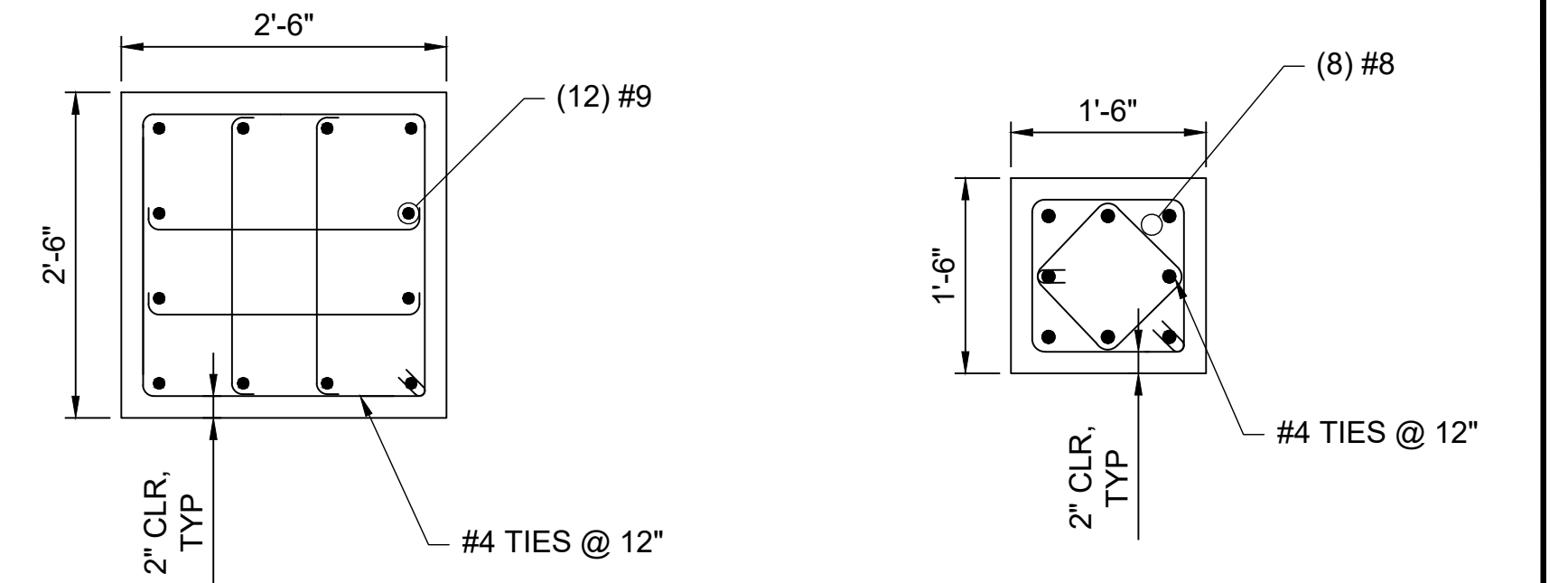
1 TYPE 1 COLUMN CAP
S-141 SCALE: 1/2" = 1'-0"



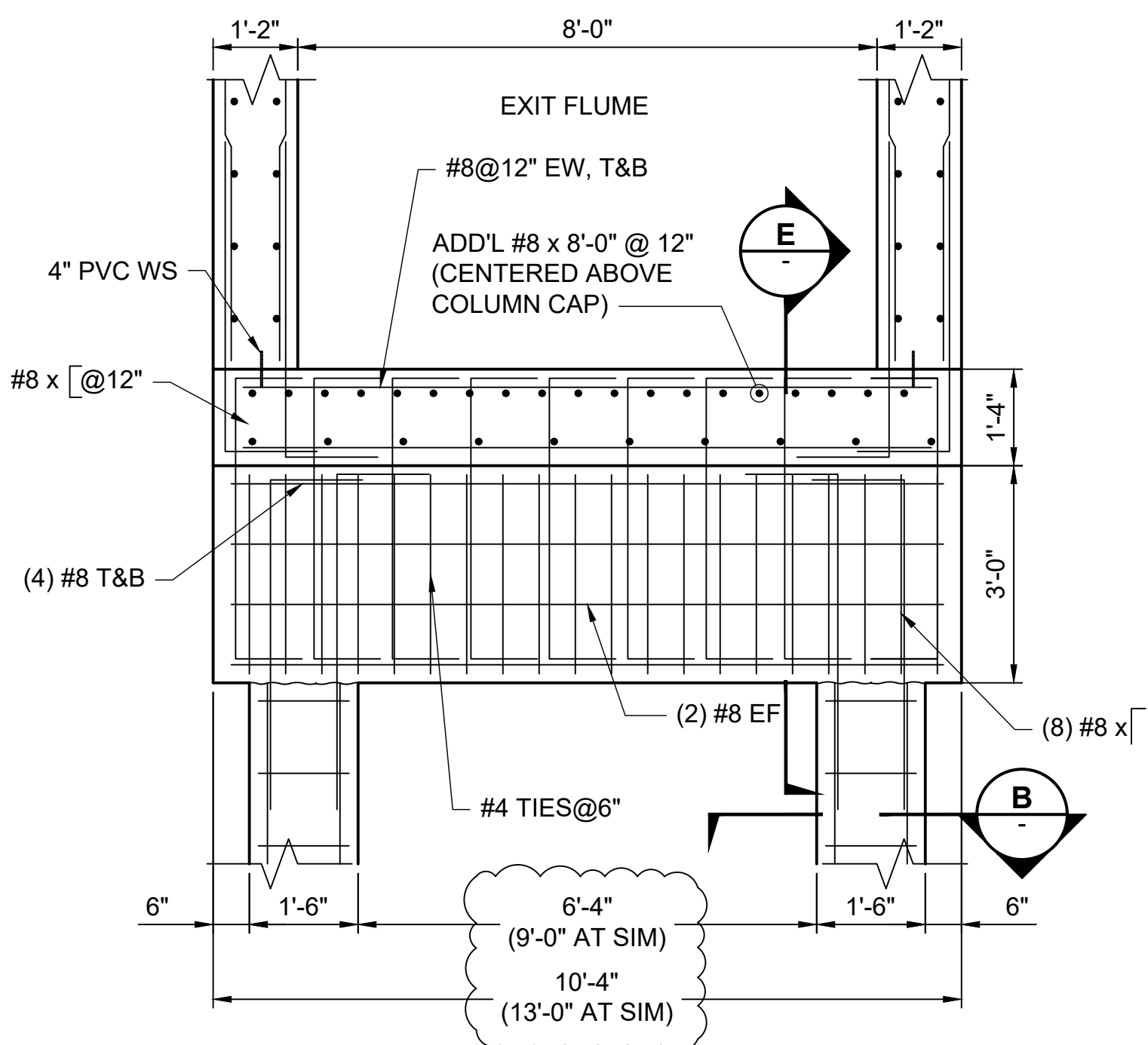
2 TYPE 2 COLUMN CAP
S-141 SCALE: 1/2" = 1'-0"

A TYPE I COLUMN
SCALE: 3/4" = 1'-0"

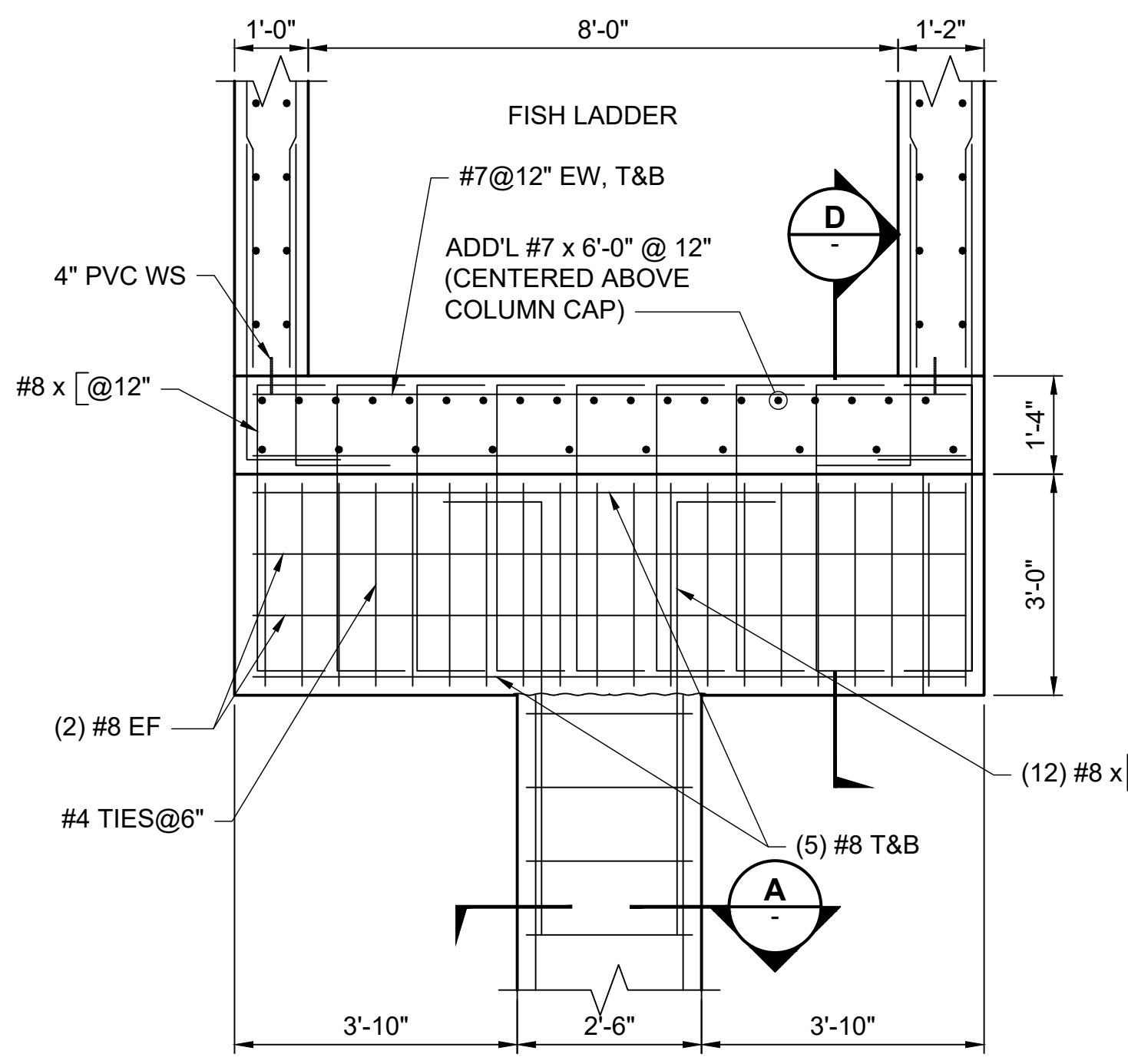
B TYPE II COLUMN
SCALE: 3/4" = 1'-0"



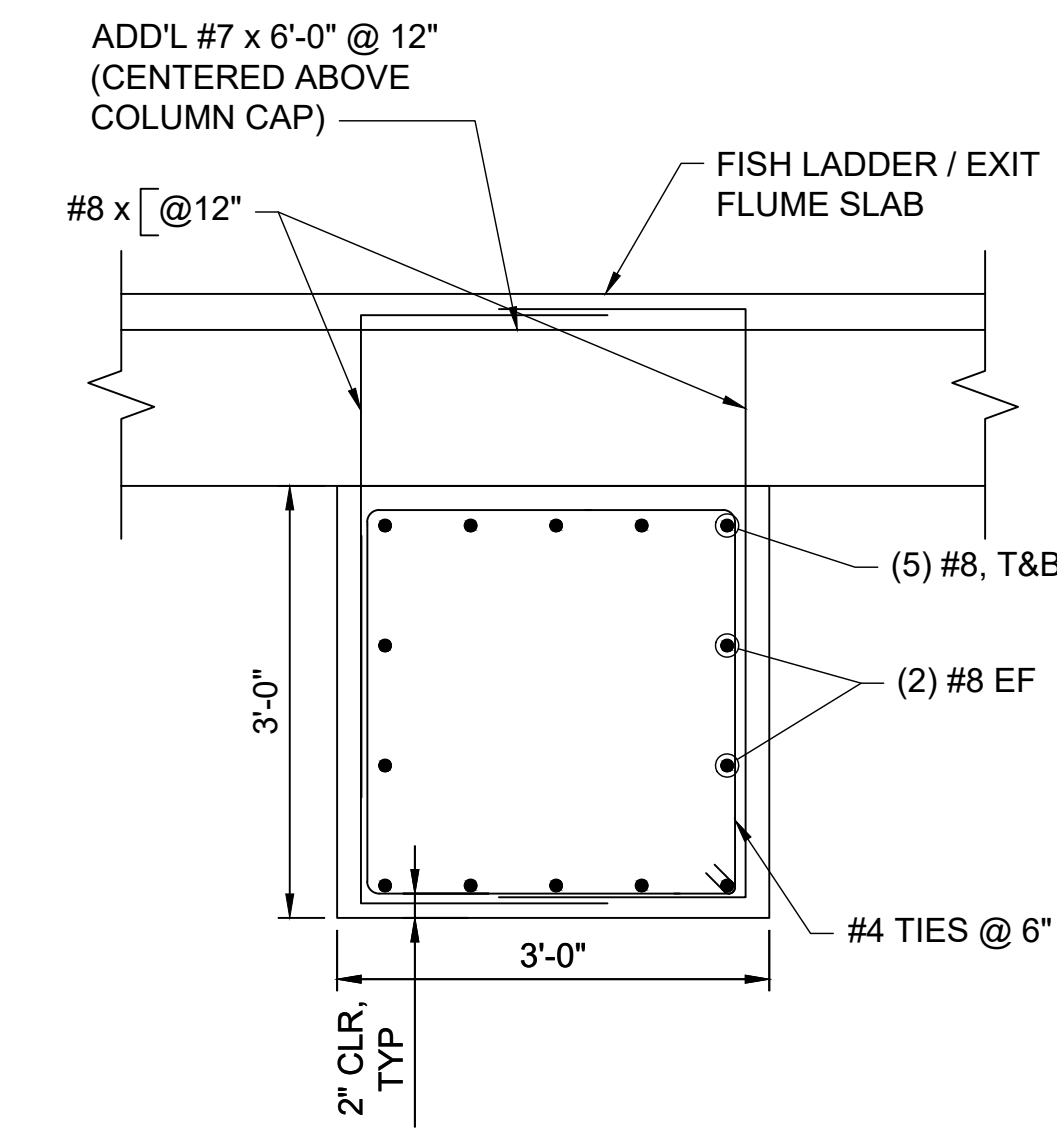
C SECTION
SCALE: 3/4" = 1'-0"



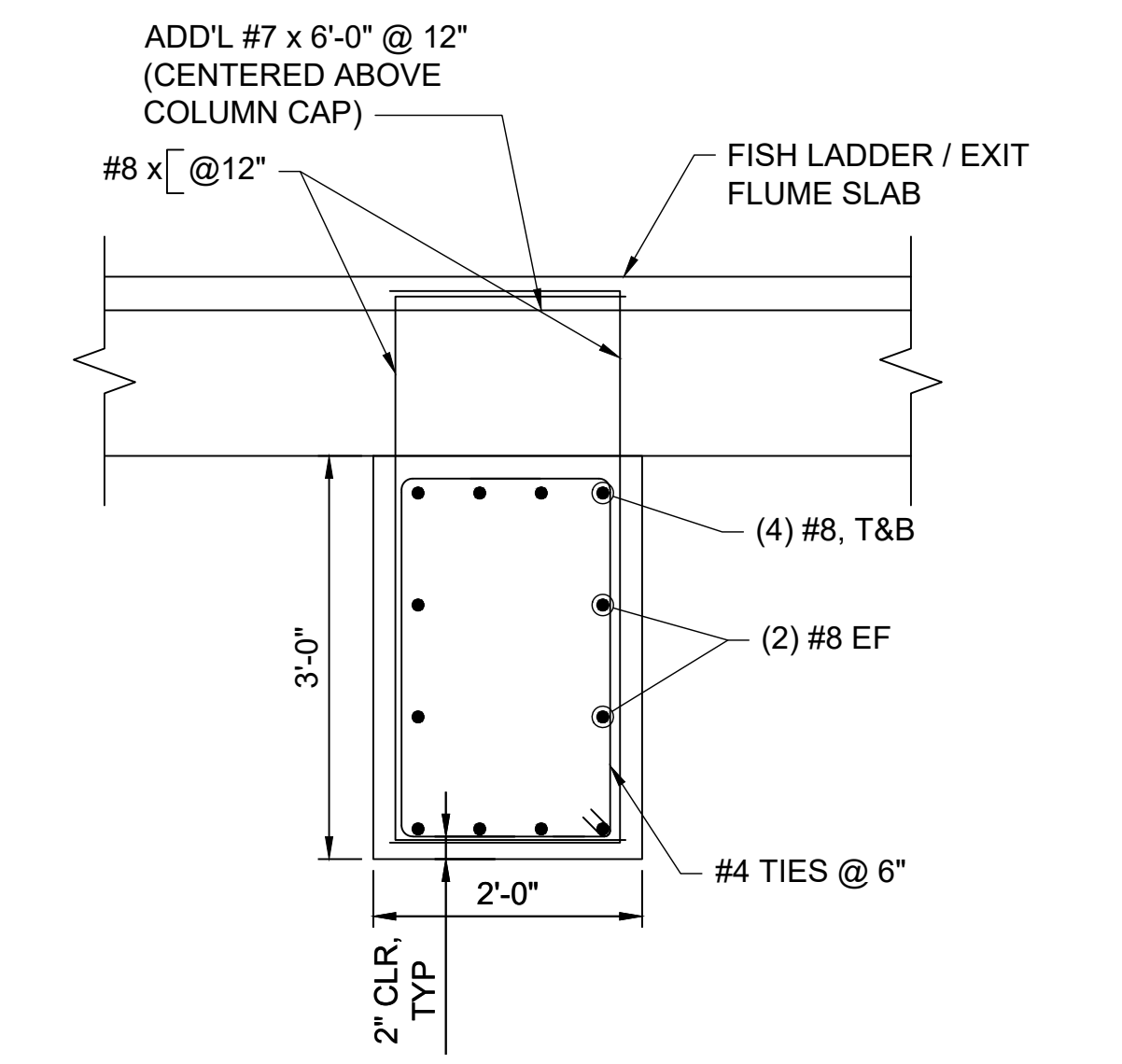
3 TYPE 3 COLUMN CAP
S-141 SCALE: 1/2" = 1'-0"



4 TYPE 4 COLUMN CAP
S-141 SCALE: 1/2" = 1'-0"



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



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



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MAY 2, 2025

5/2/2025	ISSUED FOR BID	M. GRAESER
REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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MAINE DEPARTMENT OF MARINE RESOURCES

COLUMN CAP SECTIONS & DETAILS

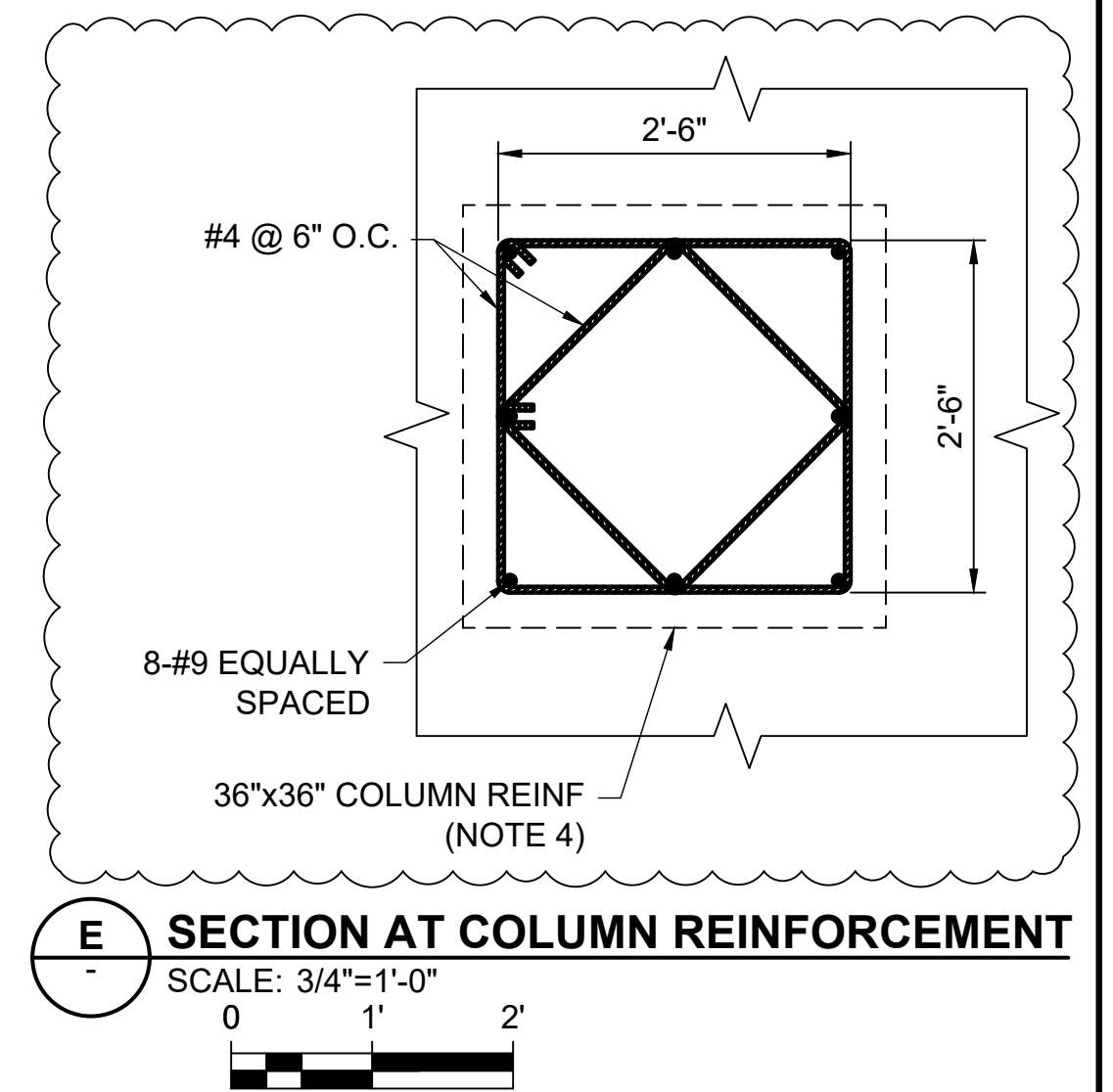
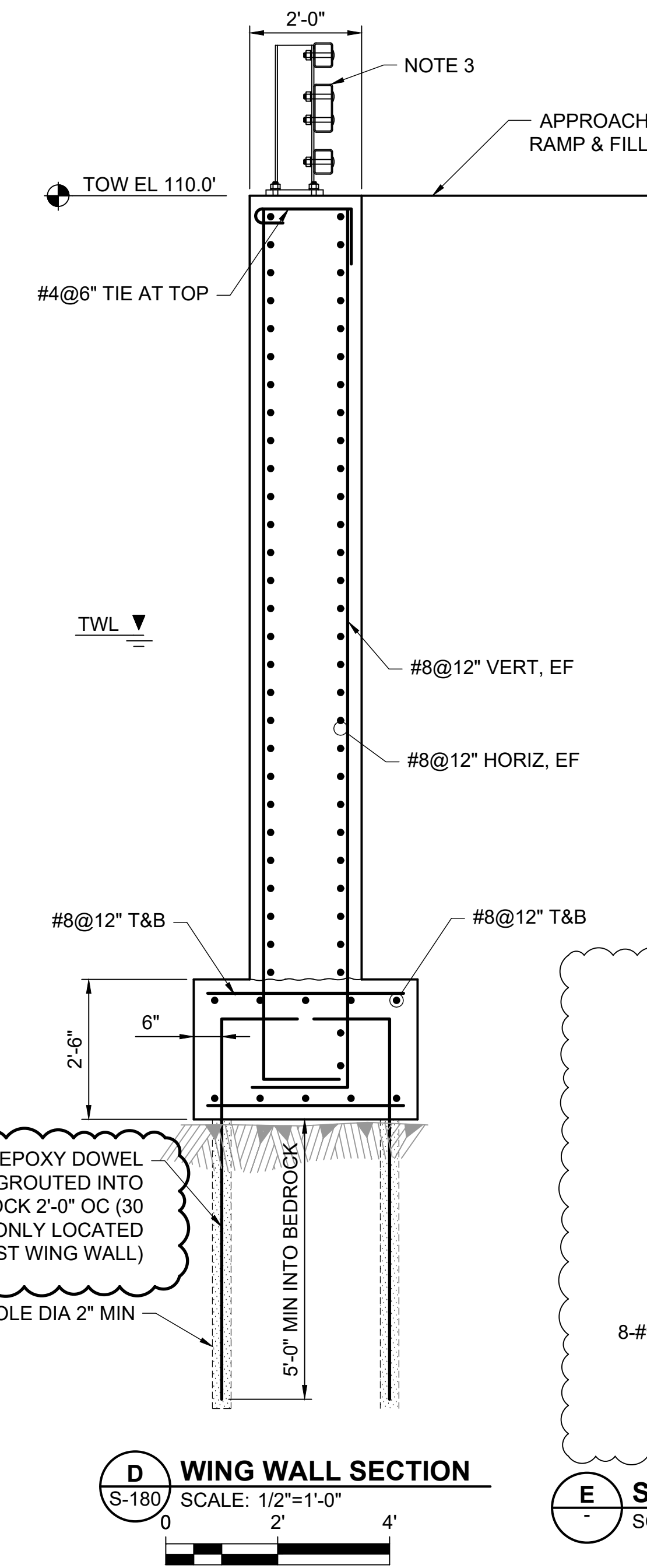
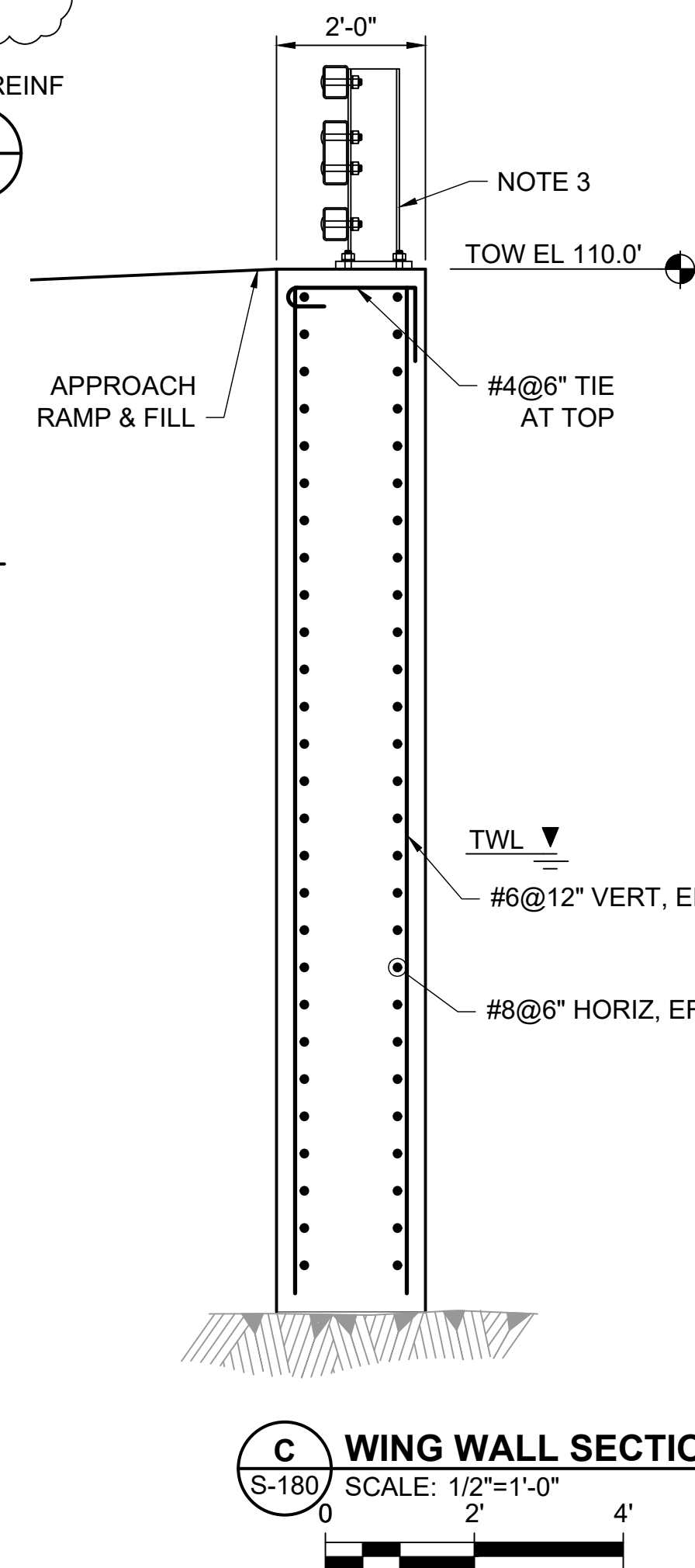
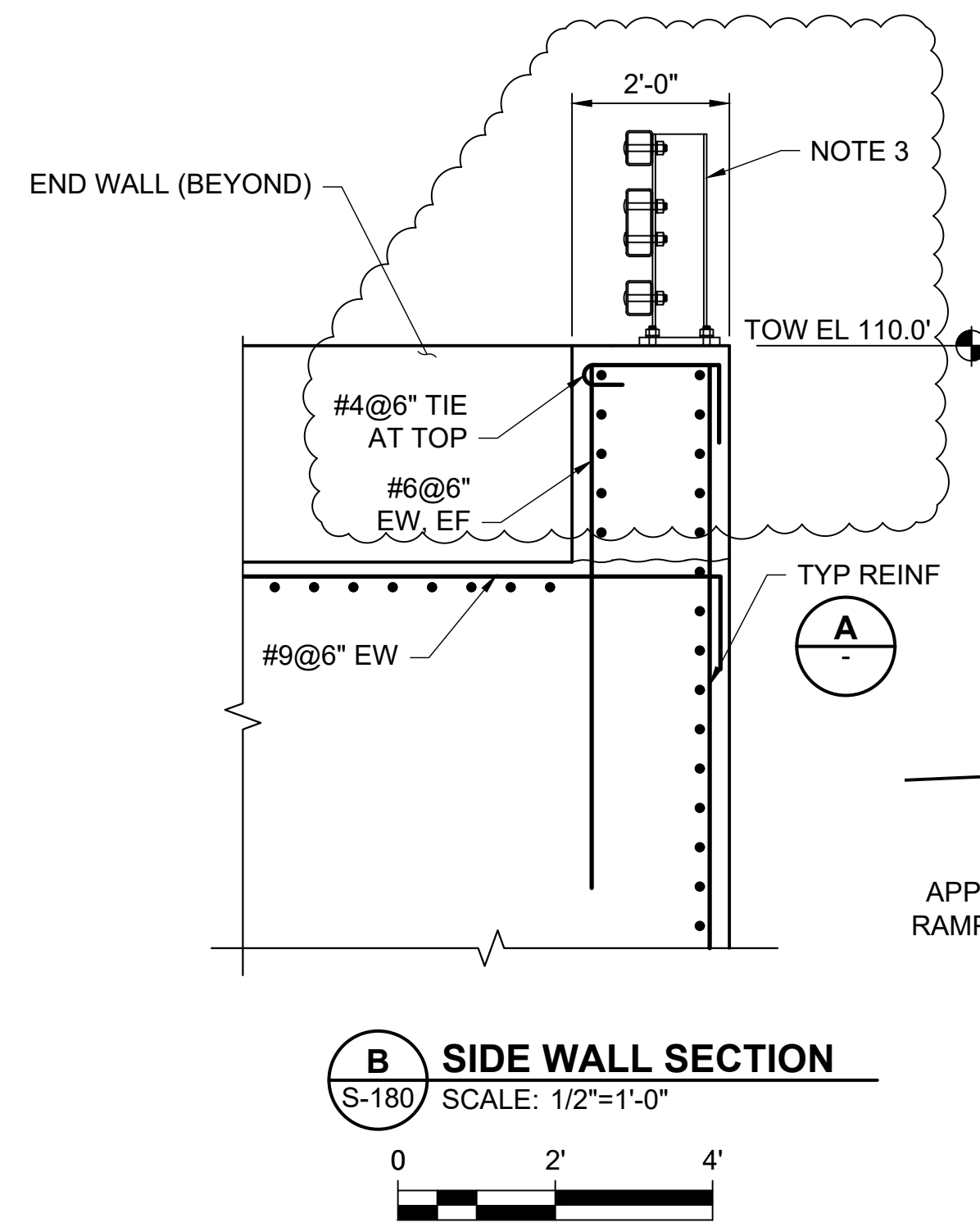
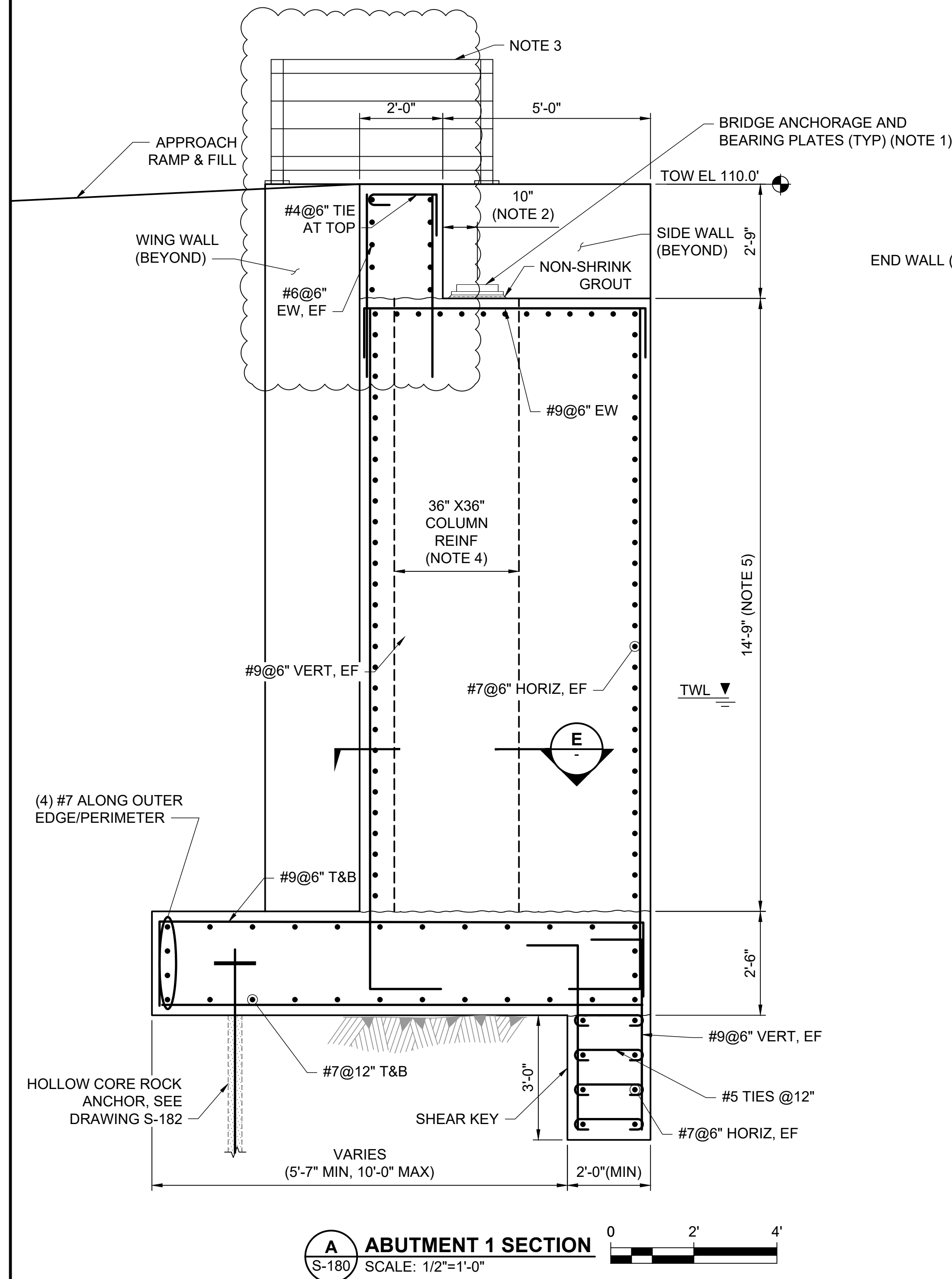
PROJECT:	16667
DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
APPROVED BY:	M. GRAESER
SHEET:	103 OF 240
DRAWING:	S-149

NOTES:

- BRIDGE ANCHORAGE AND BEARING PER PRE-FABRICATED BRIDGE MFR.
- PRIOR TO ABUTMENT CONSTRUCTION, COORDINATE BRIDGE WIDTH, DEPTH, AND BEARING PLATE LOCATIONS WITH ACTUAL PRE-FABRICATED BRIDGE SUPPLIED.
- VEHICLE GUARD RAIL. SEE DRAWING C-186.
- ADDITIONAL COLUMN OF REINFORCEMENT TO BE CENTERED UNDER EACH BEARING PLATE LOCATION. COORDINATE WITH ACTUAL PRE-FABRICATED BRIDGE SUPPLIED.
- ABUTMENT HEIGHT IS APPROXIMATE. ABUTMENT SHALL EXTEND DOWN TO BEDROCK

ROCK ANCHORS (GROUTED DOWELS):

- SUBMIT A ROCK ANCHOR INSTALLATION PLAN FOR REVIEW. PLAN SHALL INCLUDE DRILLING AND GROUTING PROCEDURES.
- DRILL HOLES FOR DOWELS USING DRILLING EQUIPMENT SUITABLE FOR THE INTENDED PURPOSE. DIAMETER AND DEPTH OF HOLES SHALL BE AS SHOWN ON THE DRAWINGS.
- CLEAN THE DRILLED HOLES AND REMOVE THE DEBRIS PRIOR TO DOWEL PLACEMENT.
- GROUT:
 - GROUT FOR GROUTING ANCHORS INTO ROCK SHALL CONSIST OF A HOMOGENOUS, STABLE MIXTURE OF PORTLAND CEMENT AND WATER WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS. SUBMIT THE PROPOSED MIX DESIGN FOR REVIEW.
 - THE WATER CONTENT SHALL BE THE MINIMUM NECESSARY FOR PROPER PLACEMENT BUT THE WATER-CEMENT RATIO SHALL NOT EXCEED 0.45 BY WEIGHT. DO NOT USE ACCELERATORS.
- ROCK ANCHORS SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60 WITH EPOXY COATING IN ACCORDANCE WITH ASTM A775.



#8 EPOXY DOWEL GROUTED INTO BEDROCK 2'-0" OC (30 TOTAL, ONLY LOCATED AT WEST WING WALL)
DRILL HOLE DIA 2" MIN



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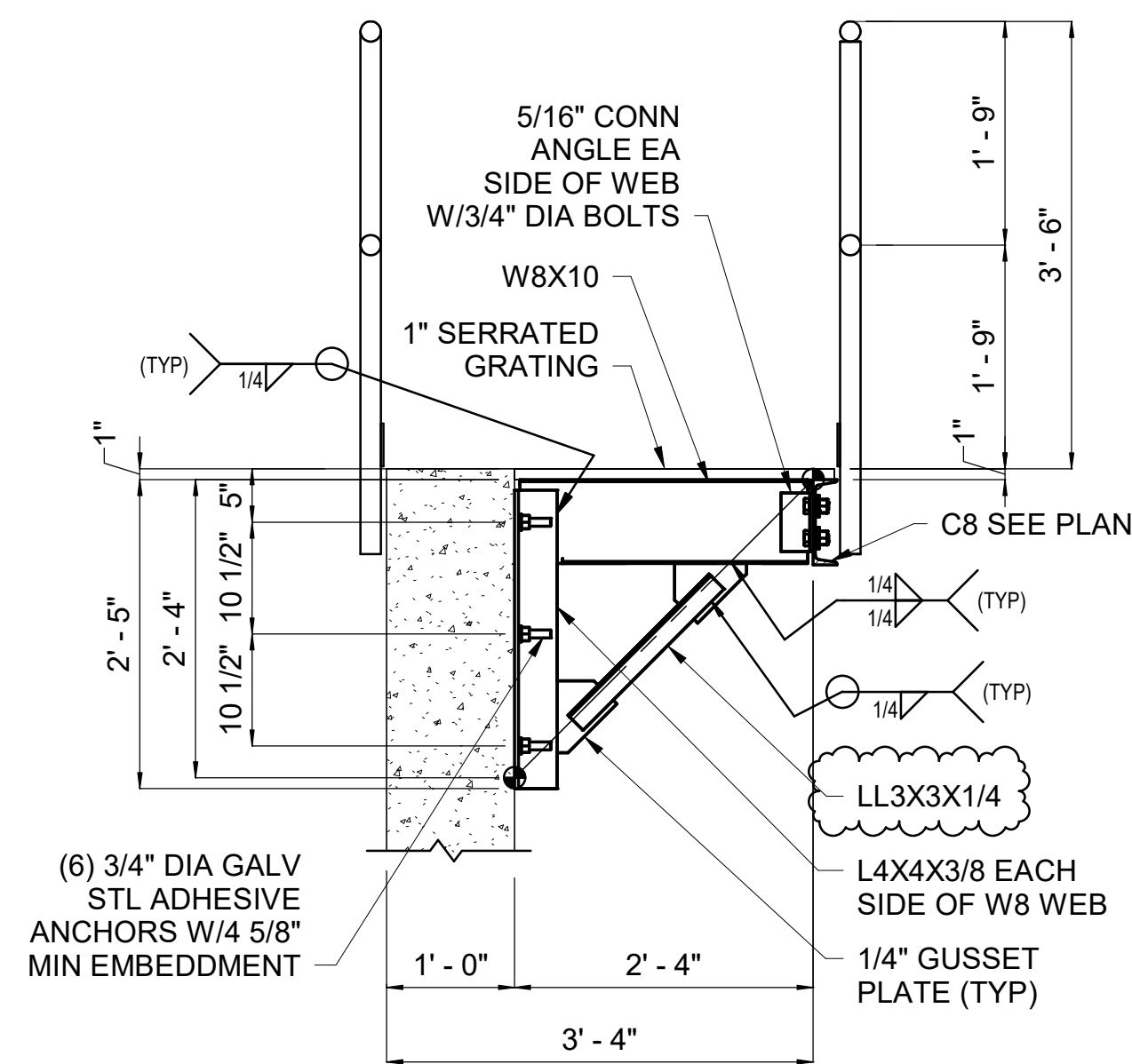
5/2/2025	ISSUED FOR BID	M. GRAESER
REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

VERIFY SCALE
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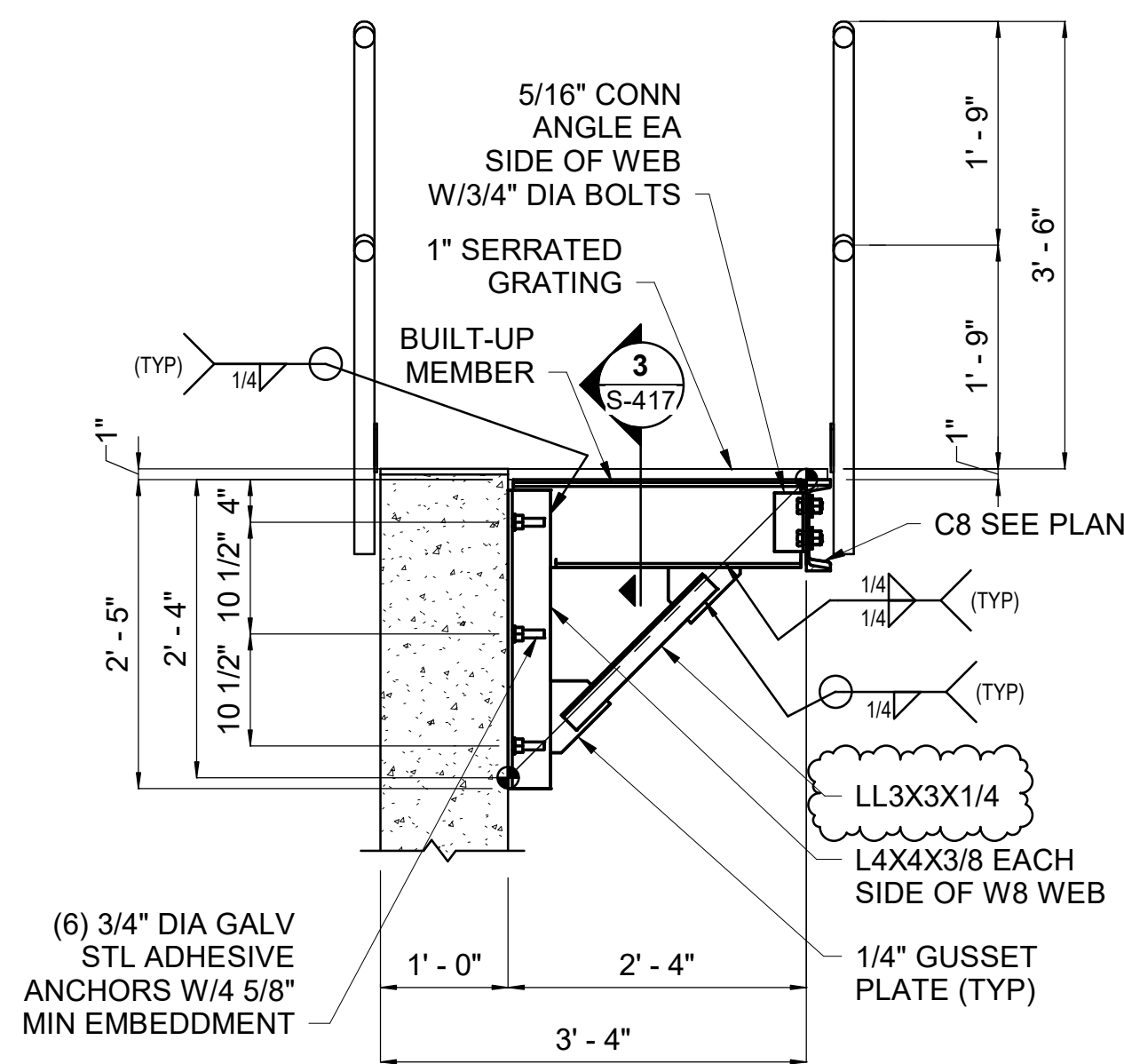
WOODLAND FISH LIFT PASSAGE DESIGN
MAINE DEPARTMENT OF MARINE RESOURCES

ACCESS BRIDGE ABUTMENT 1 SECTIONS

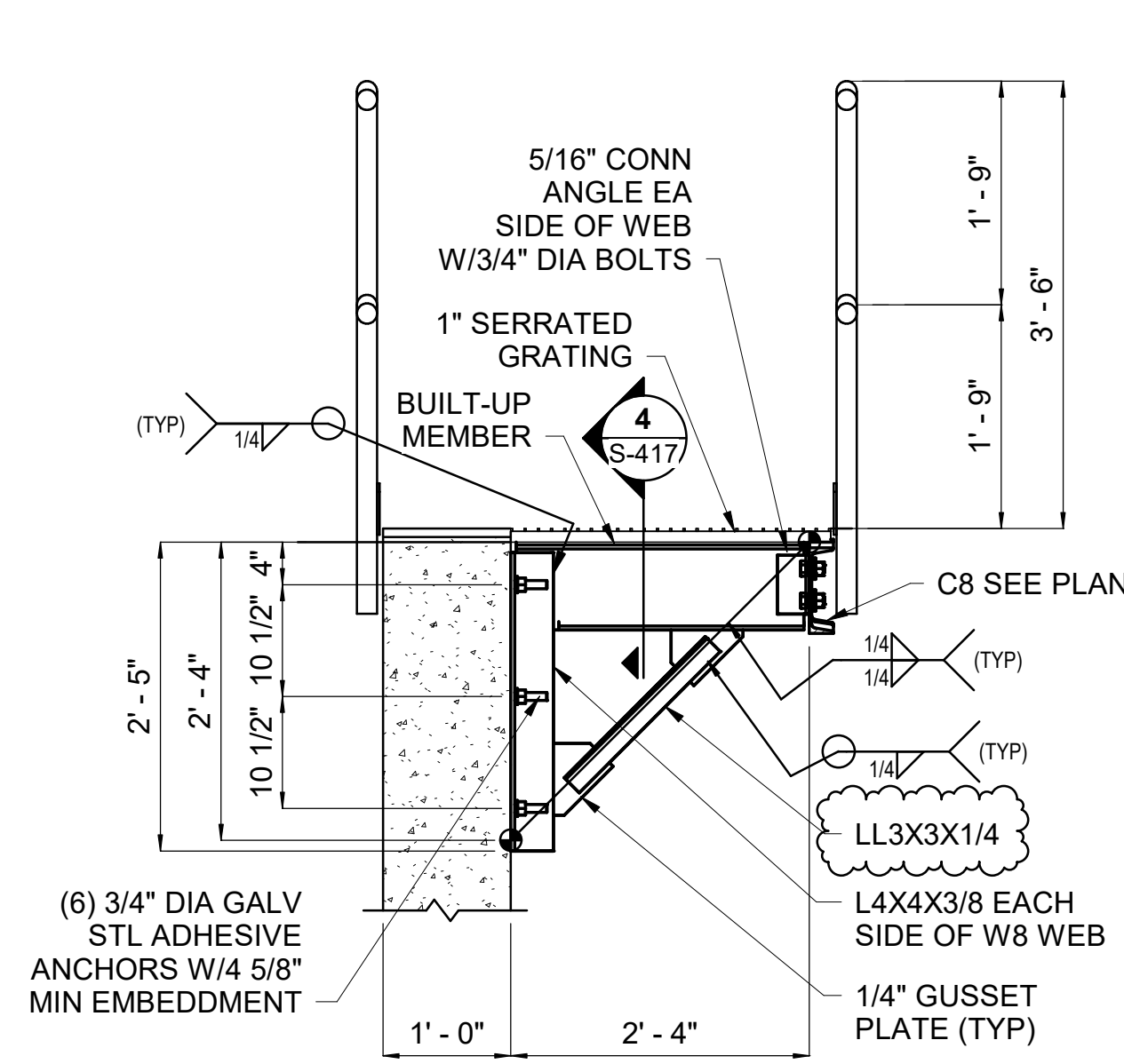
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DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
APPROVED BY:	M. GRAESER
SHEET:	127 OF 240
DRAWING:	S-181



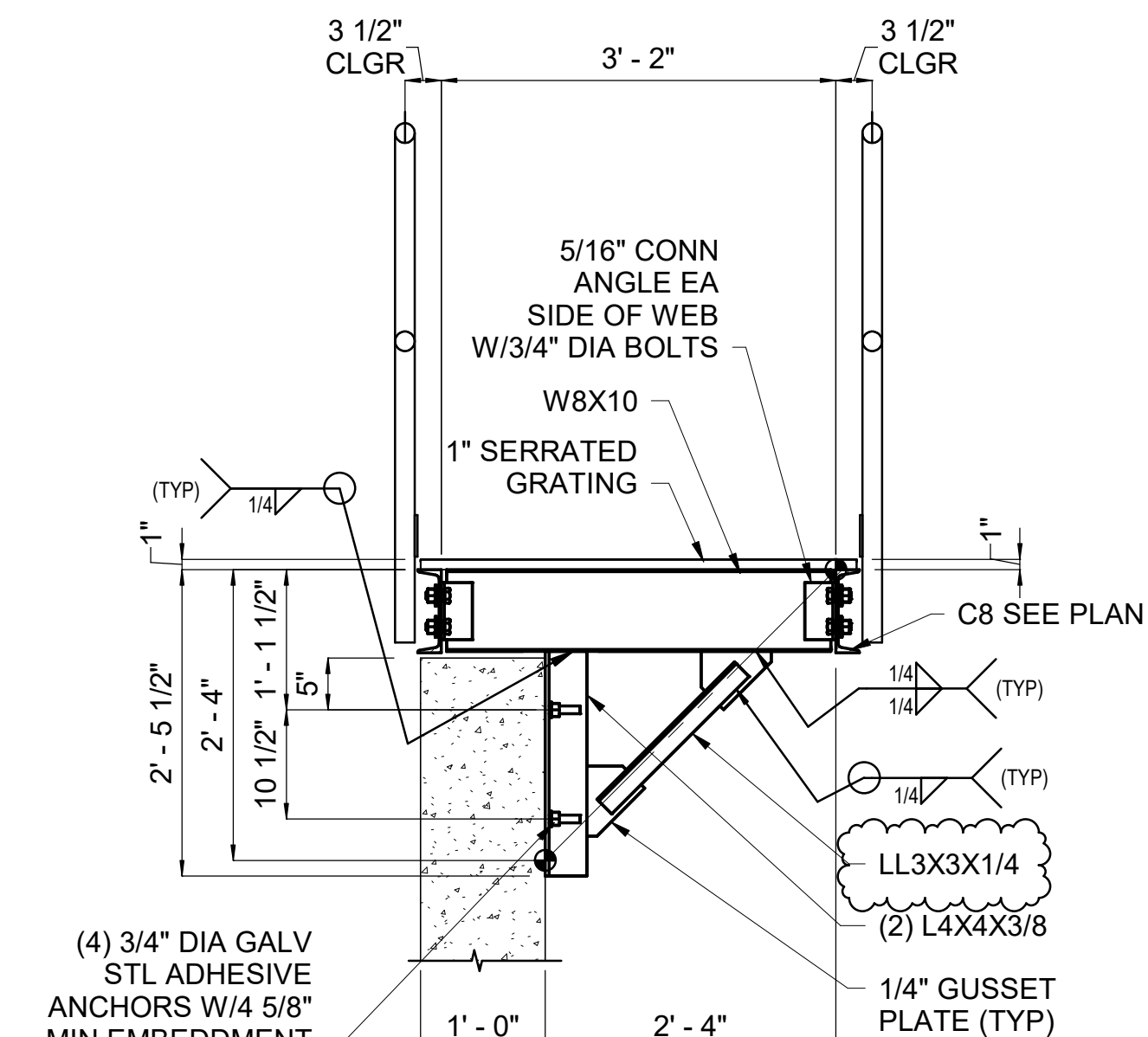
1 ASSM A DETAIL
S-413 SCALE: 3/4" = 1'-0"



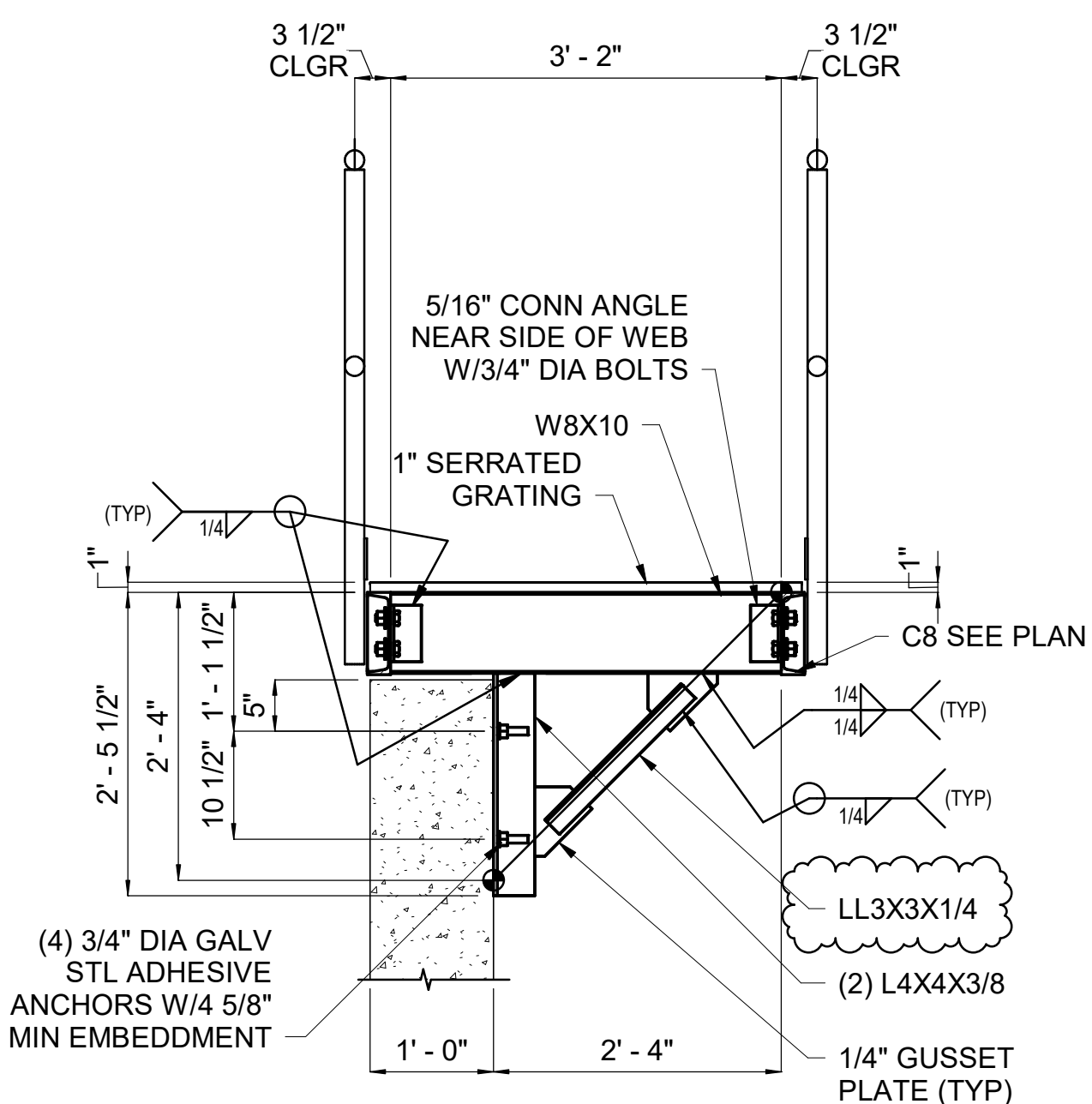
2 ASSM B DETAIL
S-413 SCALE: 3/4" = 1'-0"



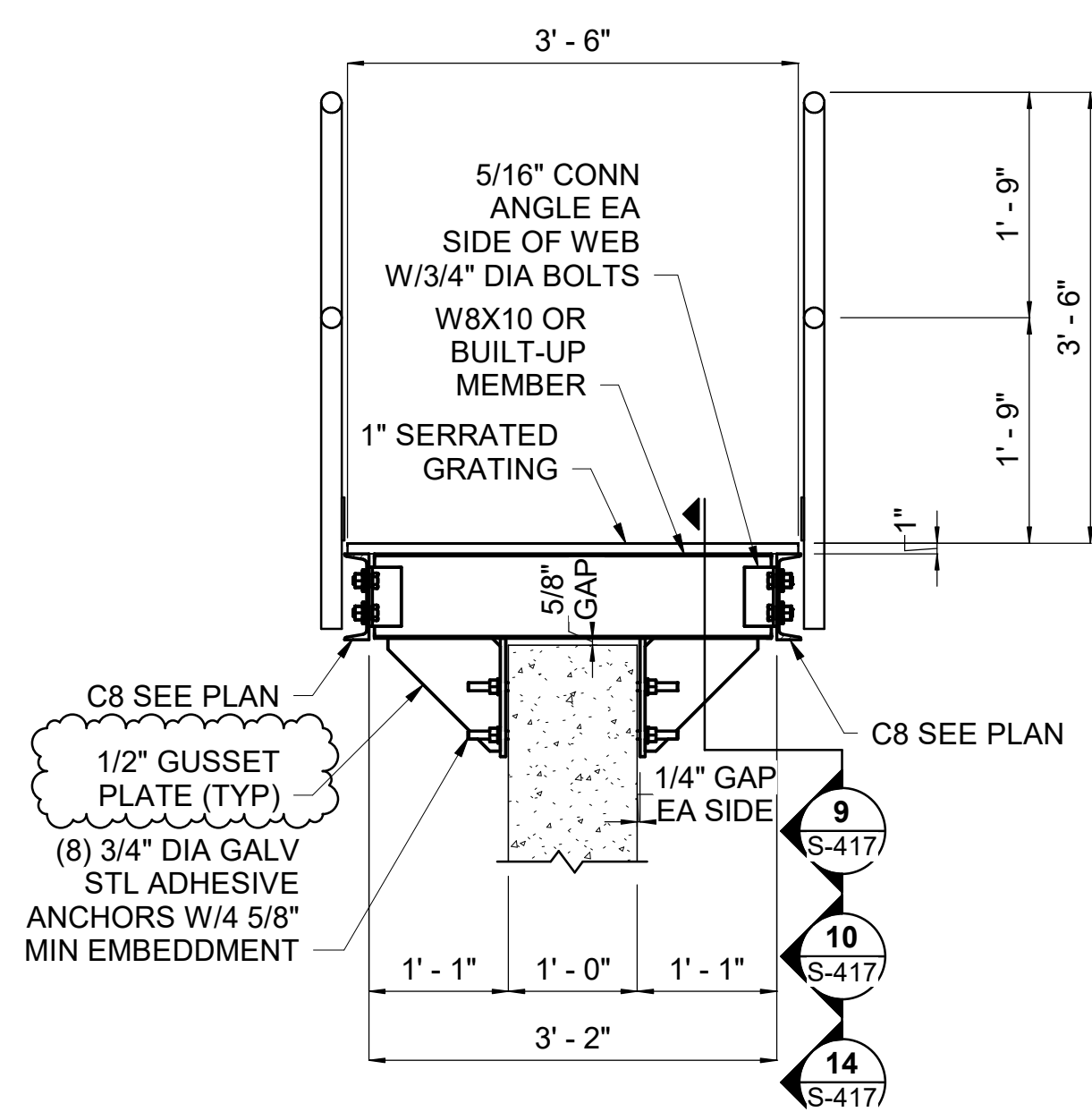
3 ASSM C DETAIL
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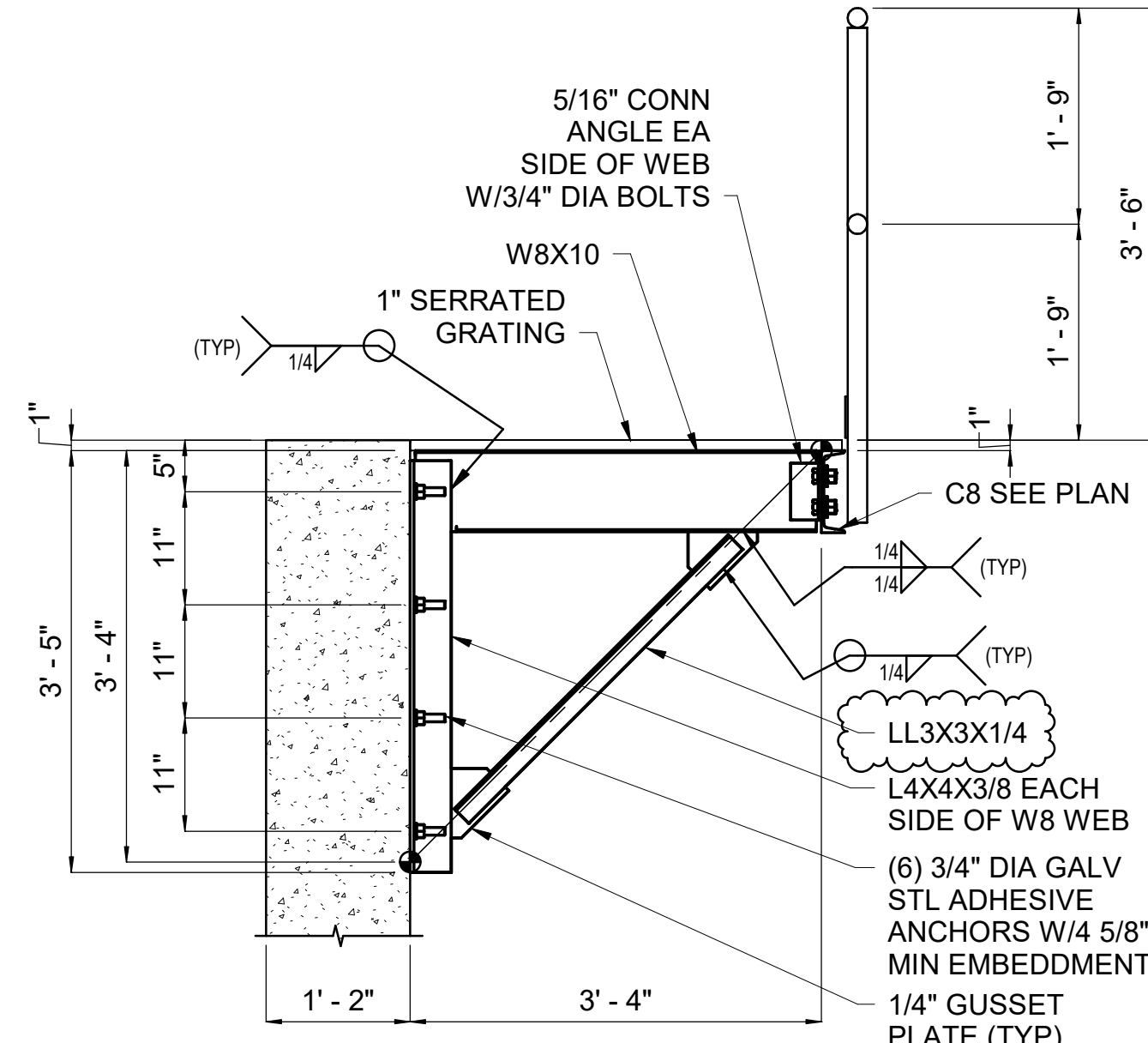
4 ASSM D DETAIL
S-413 SCALE: 3/4" = 1'-0"



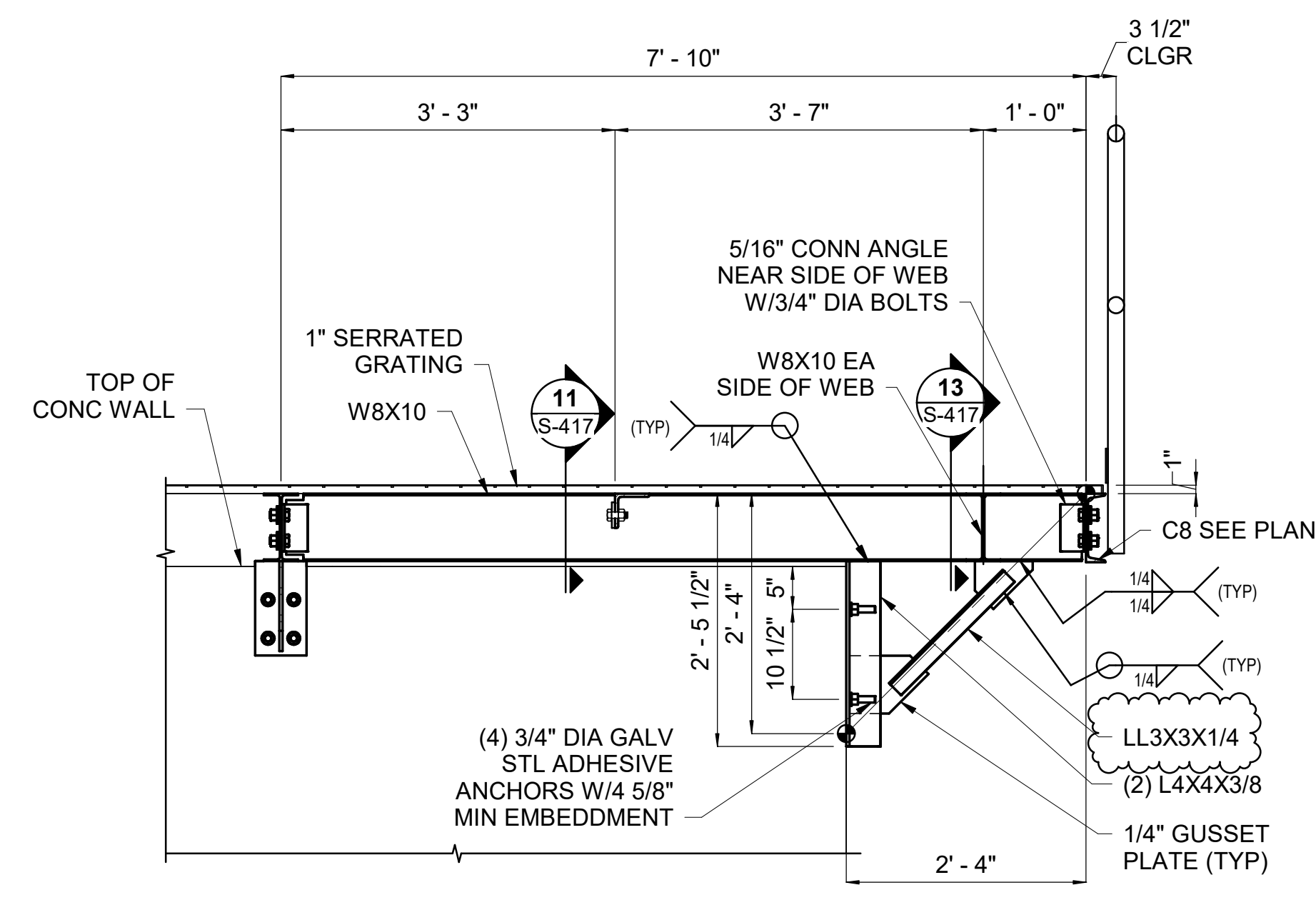
5 ASSM E DETAIL
S-413 SCALE: 3/4" = 1'-0"



6 ASSEMBLY F,G,H DETAIL
S-413 SCALE: 3/4" = 1'-0"



7 ASSM J DETAIL
S-413 SCALE: 3/4" = 1'-0"



8 ASSM K DETAIL
S-413 SCALE: 3/4" = 1'-0"

NOTE:
ALL WALKWAY FRAMING AND CONNECTIONS TO BE HOT DIP GALVANIZED.
ALL WALKWAY GRATING TO BE HOT DIP GALVANIZED.
ALL WALKWAY GUARDRAIL/HANDRAIL TO BE HOT DIP GALVANIZED.



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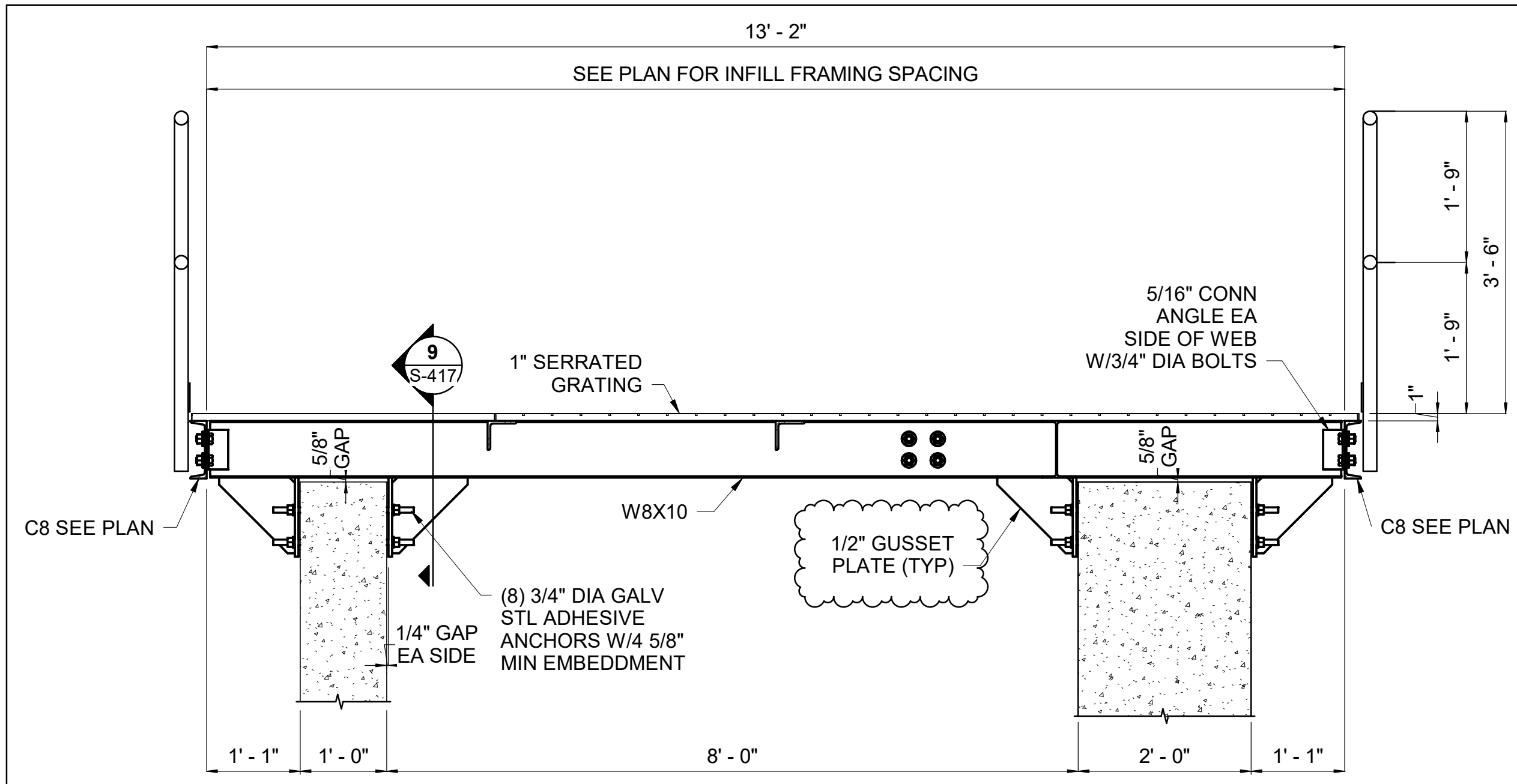
5/2/2025	ISSUED FOR BID	M. GRAESER
REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

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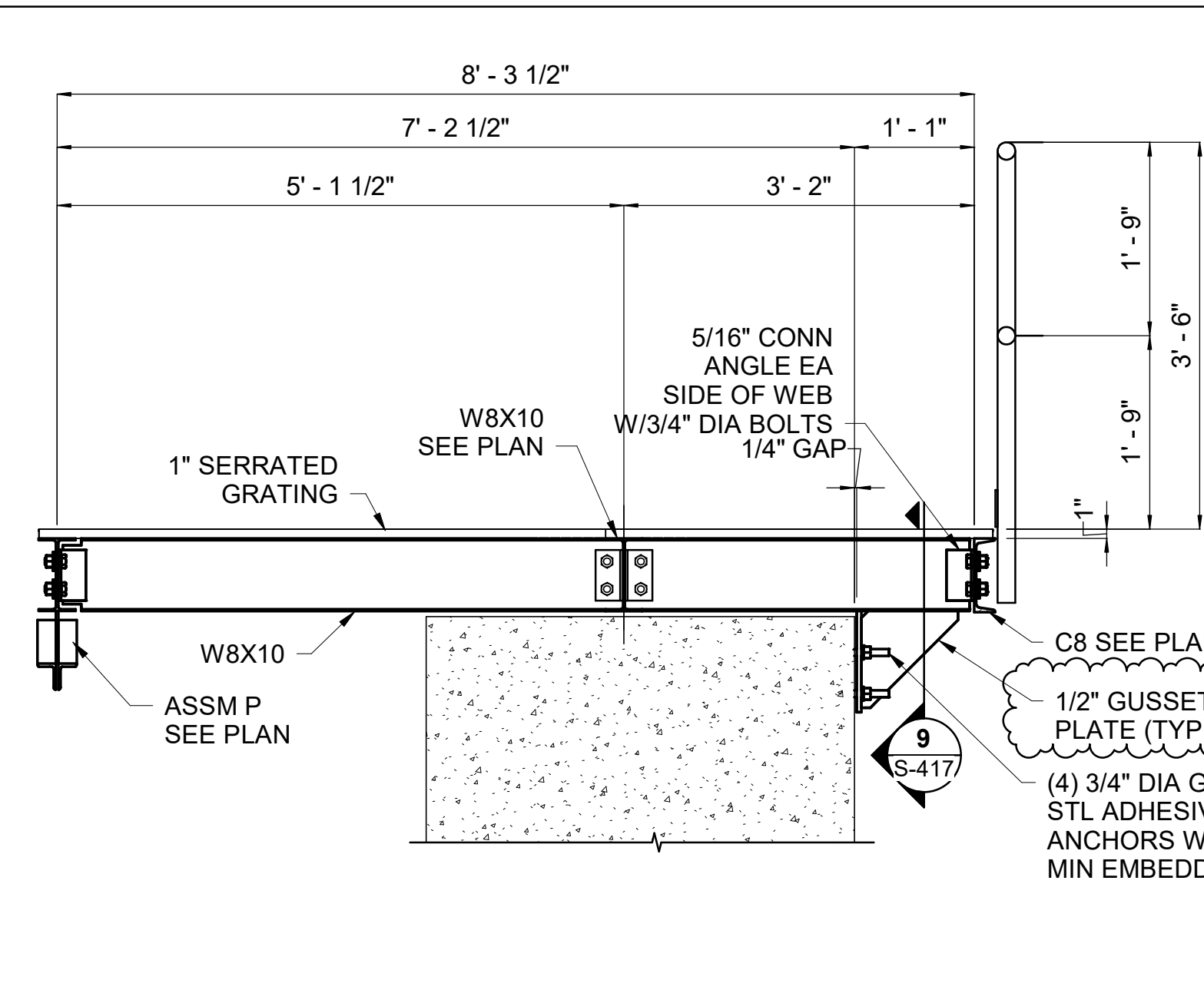
WOODLAND FISH LIFT PASSAGE DESIGN
MAINE DEPARTMENT OF MARINE RESOURCES

FISH LADDER PLATFORM FRAMING DETAILS

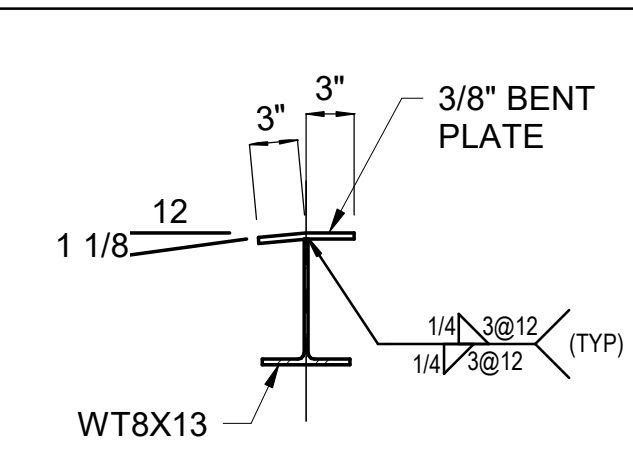
PROJECT:	16667
DRAWN BY:	D.SALDARRIAGA
DESIGNER:	T.FALES
APPROVED BY:	M. GRAESER
SHEET:	177 OF 240
DRAWING:	S-416



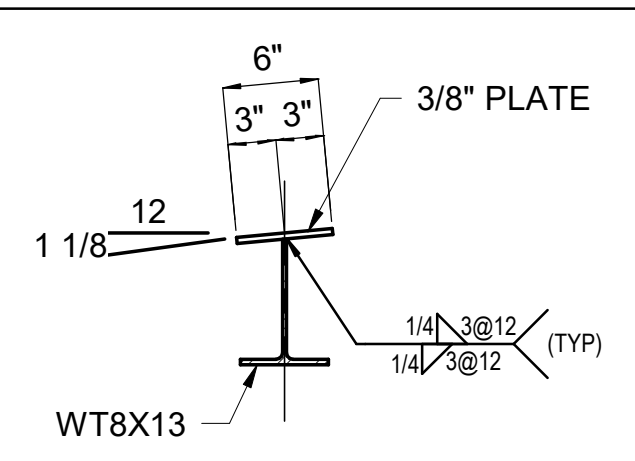
1 ASSM M DETAIL
S-413 SCALE: 3/4" = 1'-0"



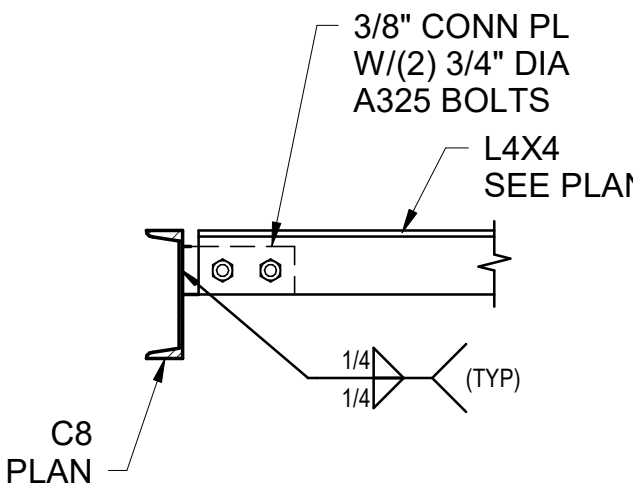
2 ASSM N DETAIL
S-413 SCALE: 3/4" = 1'-0"



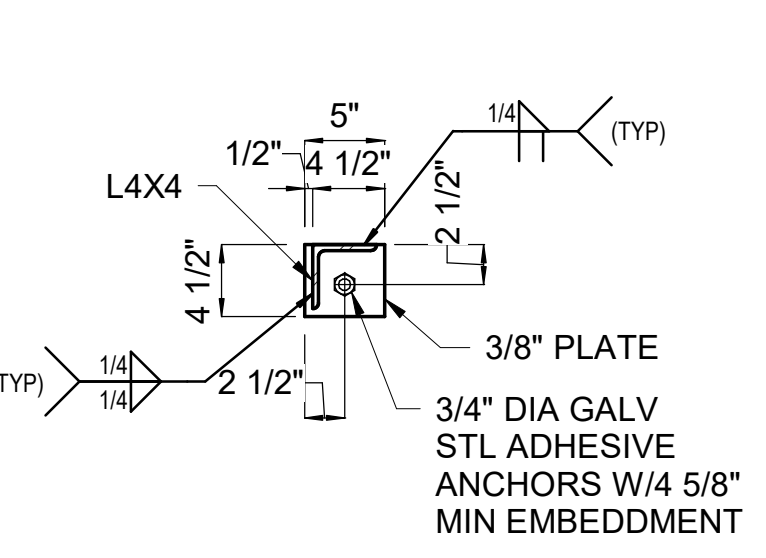
3 SECTION
S-416 SCALE: 1" = 1'-0"



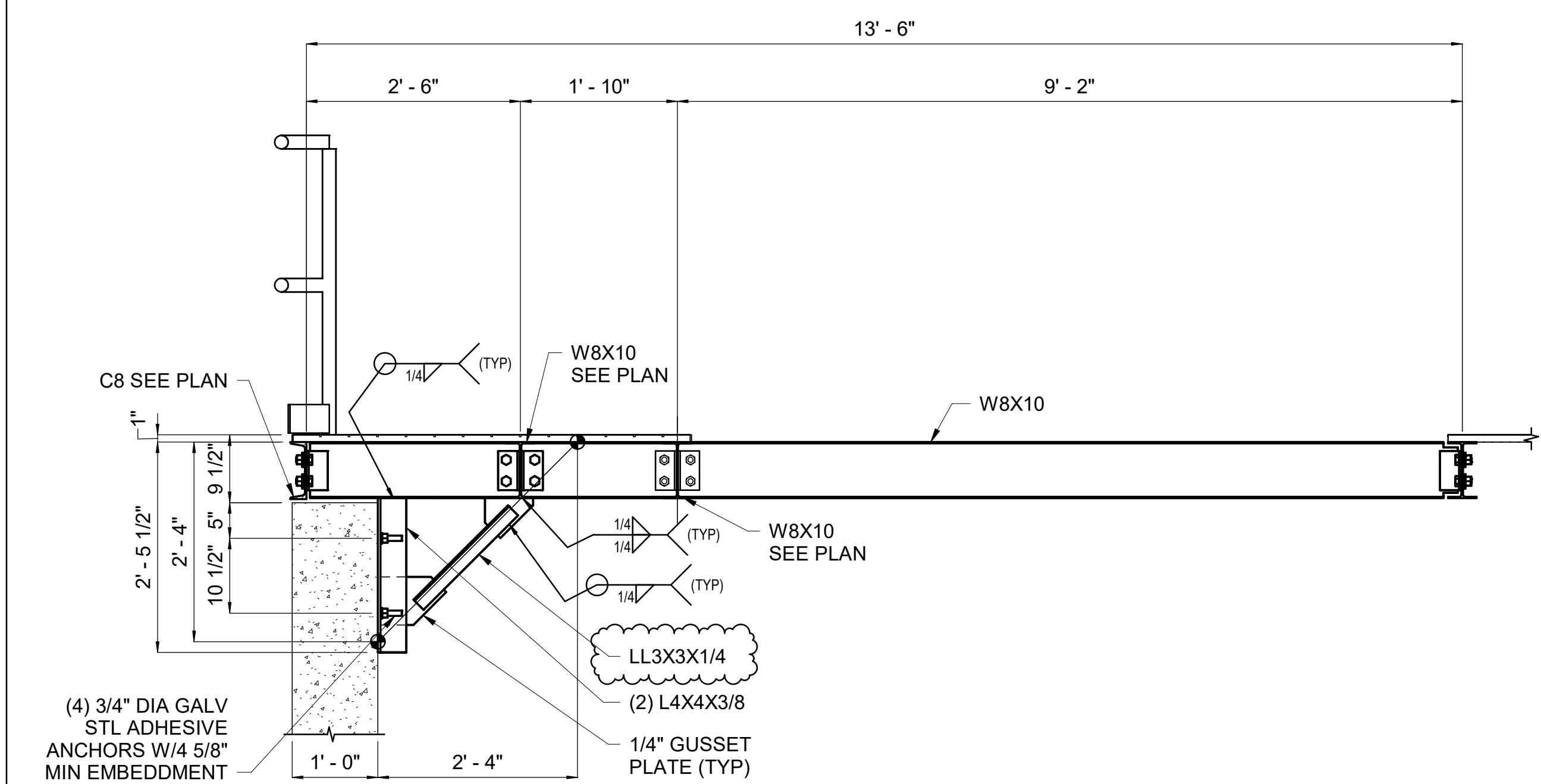
4 SECTION
S-416 SCALE: 1" = 1'-0"



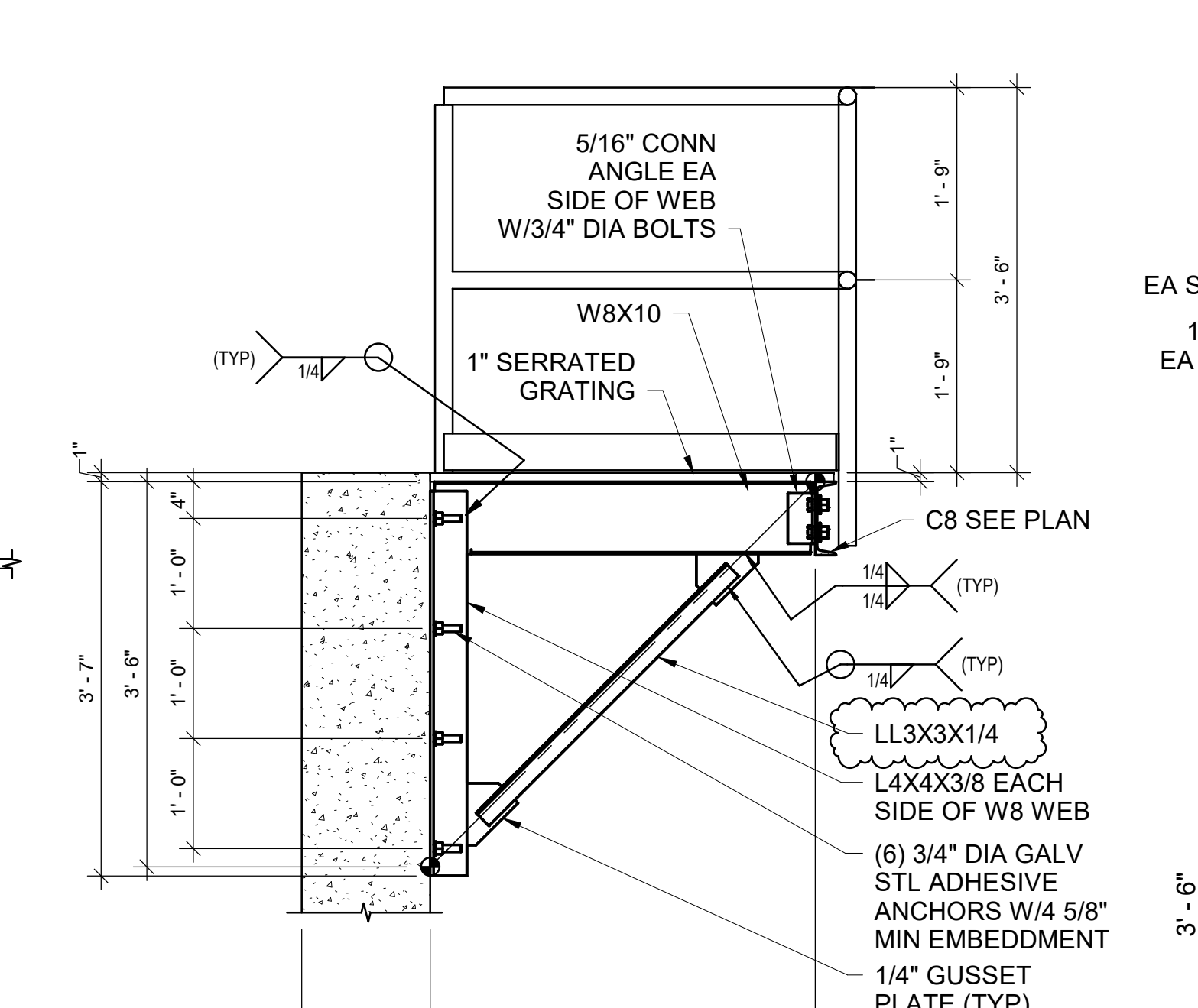
5 CONNECTION DETAIL
S-417 SCALE: 1" = 1'-0"



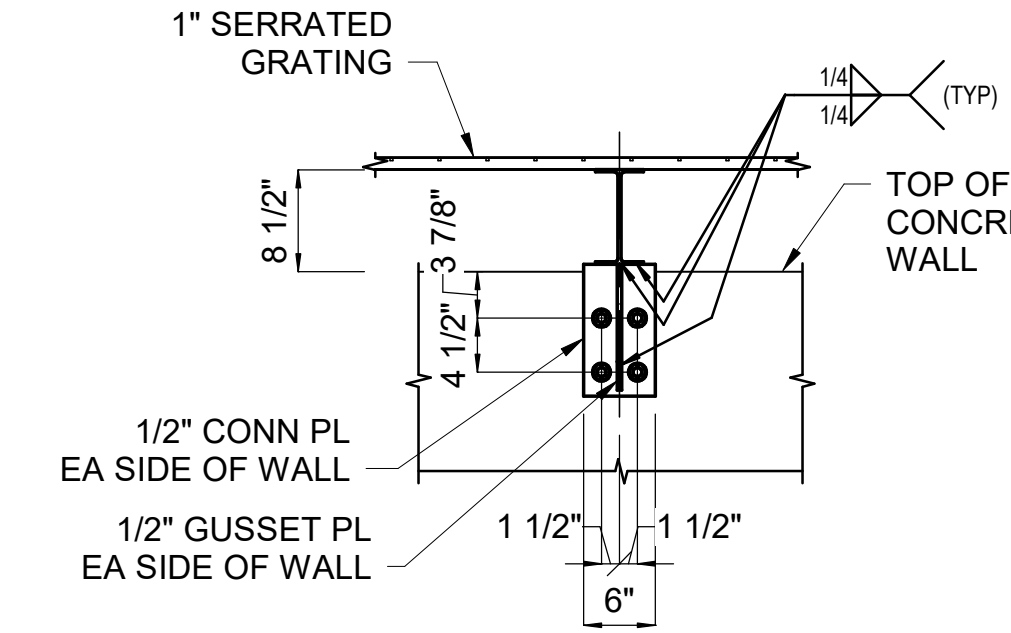
6 CONNECTION DETAIL
S-417 SCALE: 1" = 1'-0"



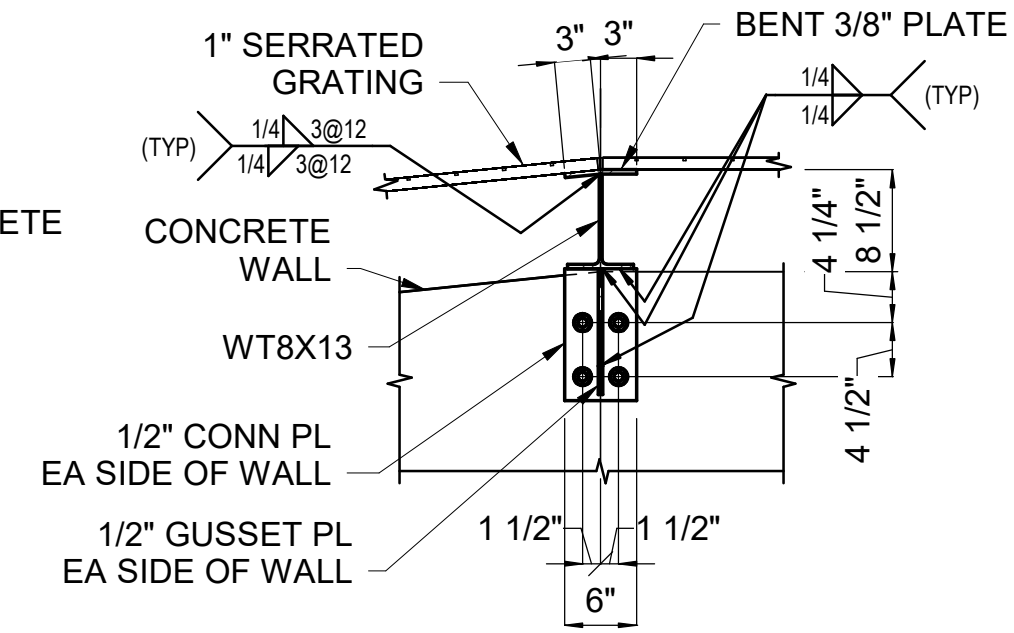
7 ASSM P DETAIL
S-413 SCALE: 3/4" = 1'-0"



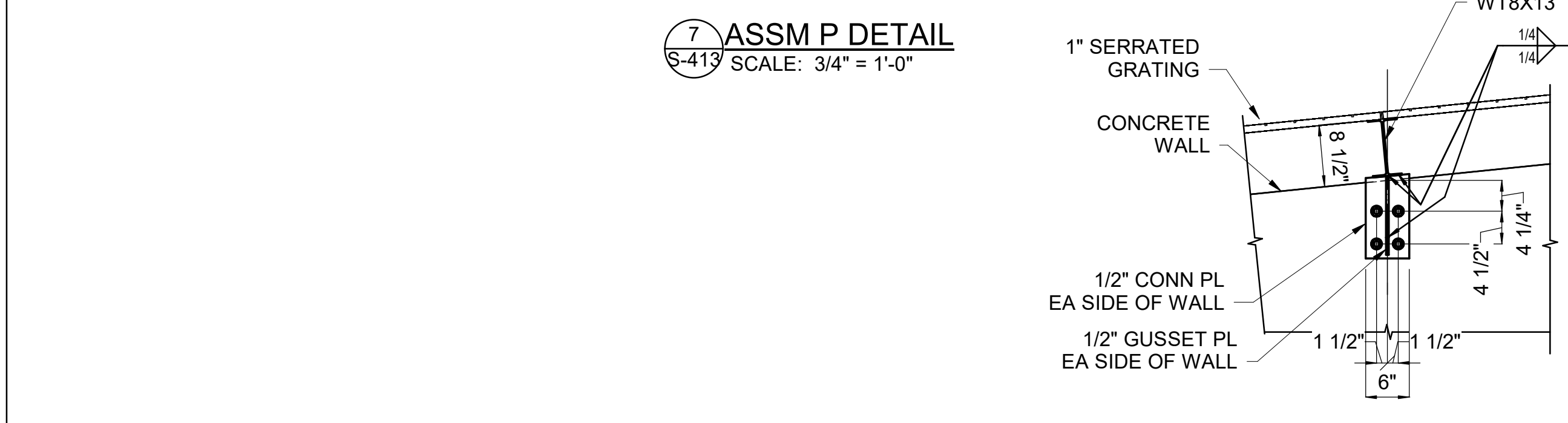
8 ASSM Q DETAIL
S-413 SCALE: 3/4" = 1'-0"



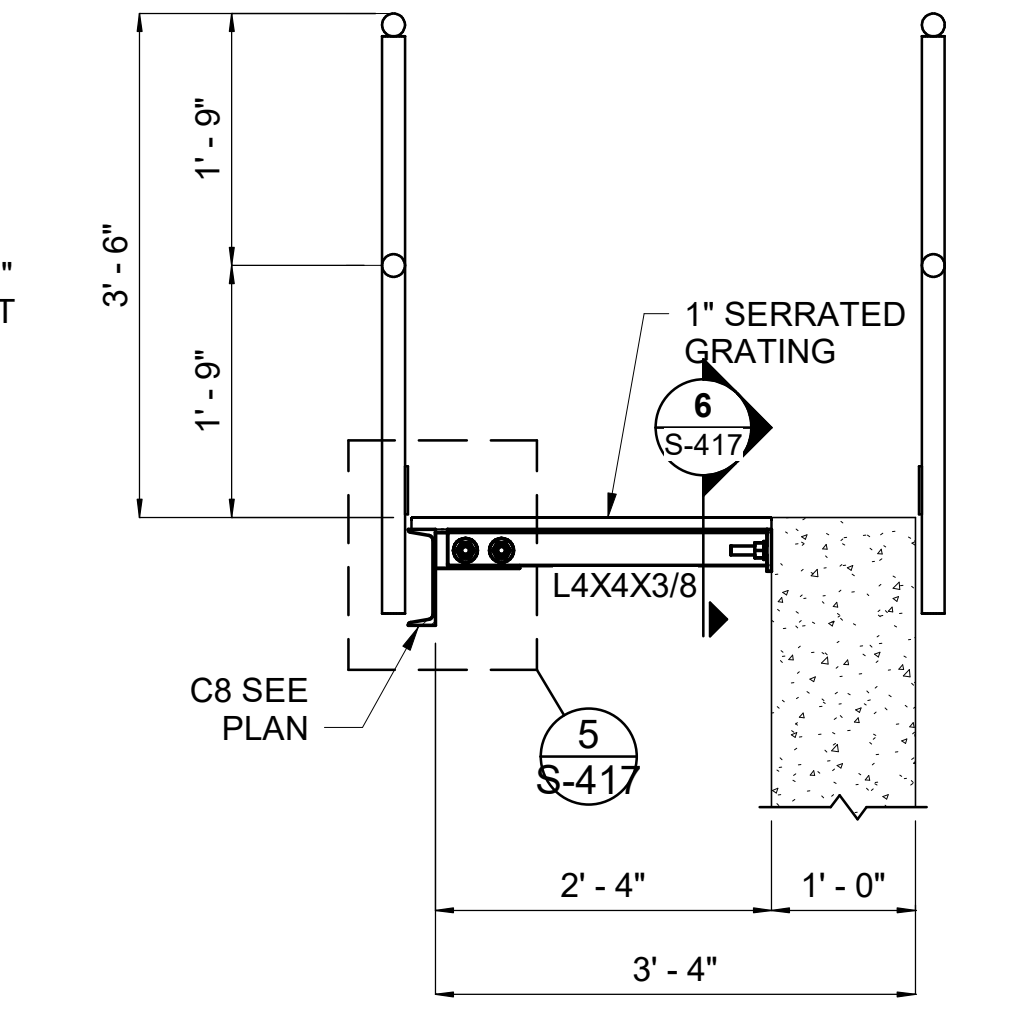
9 CONNECTION DETAIL
S-416 SCALE: 3/4" = 1'-0"



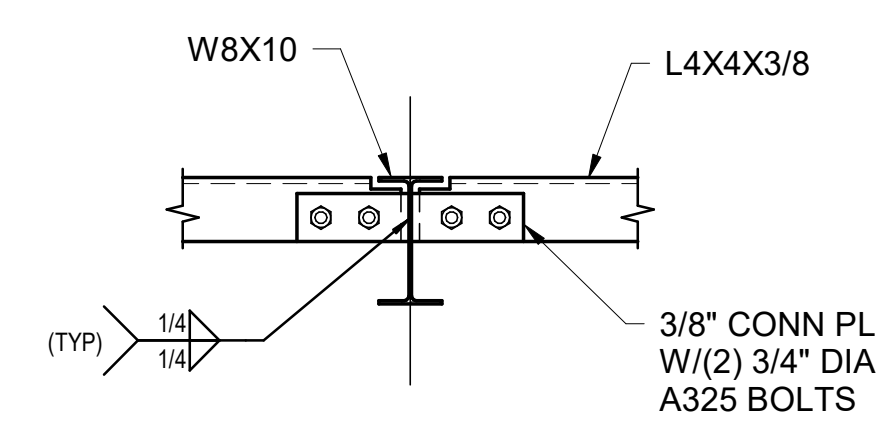
10 CONNECTION DETAIL
S-416 SCALE: 3/4" = 1'-0"



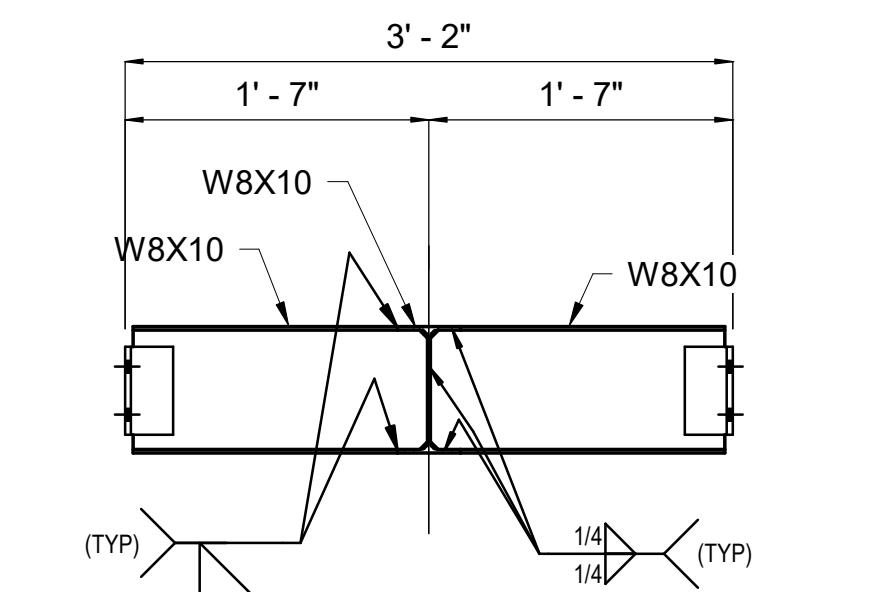
14 CONNECTION DETAIL
S-416 SCALE: 3/4" = 1'-0"



12 SECTION
S-413 SCALE: 3/4" = 1'-0"



11 CONNECTION DETAIL
S-416 SCALE: 1" = 1'-0"



13 CONNECTION DETAIL
S-416 SCALE: 1" = 1'-0"

NOTE:
ALL WALKWAY FRAMING AND CONNECTIONS TO BE HOT DIP GALVANIZED.
ALL WALKWAY GRATING TO BE HOT DIP GALVANIZED.
ALL WALKWAY GUARDRAIL/HANDRAIL TO BE HOT DIP GALVANIZED.



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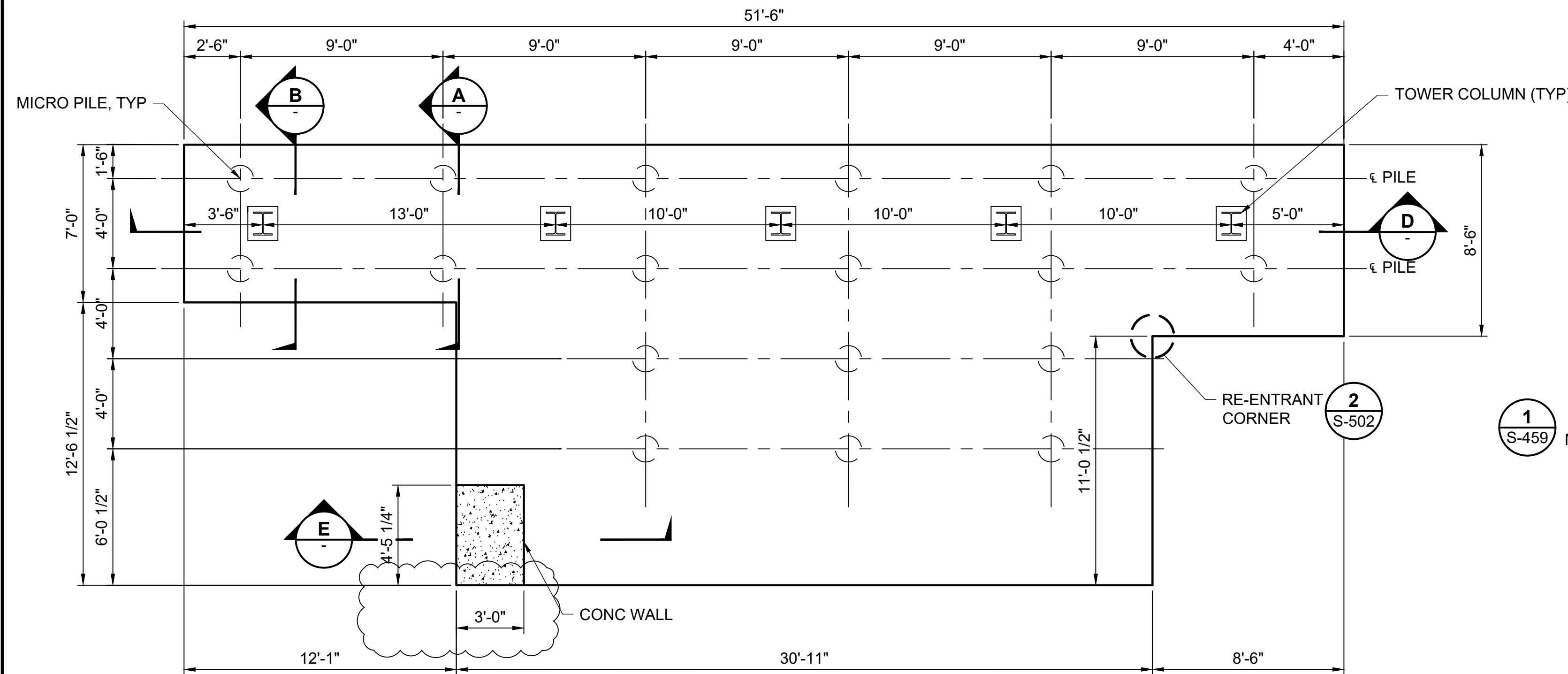
REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY
5/2/2025	ISSUED FOR BID	M.GRAESER

VERIFY SCALE
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WOODLAND FISH LIFT PASSAGE DESIGN
MAINE DEPARTMENT OF MARINE RESOURCES

FISH LADDER PLATFORM
FRAMING DETAILS

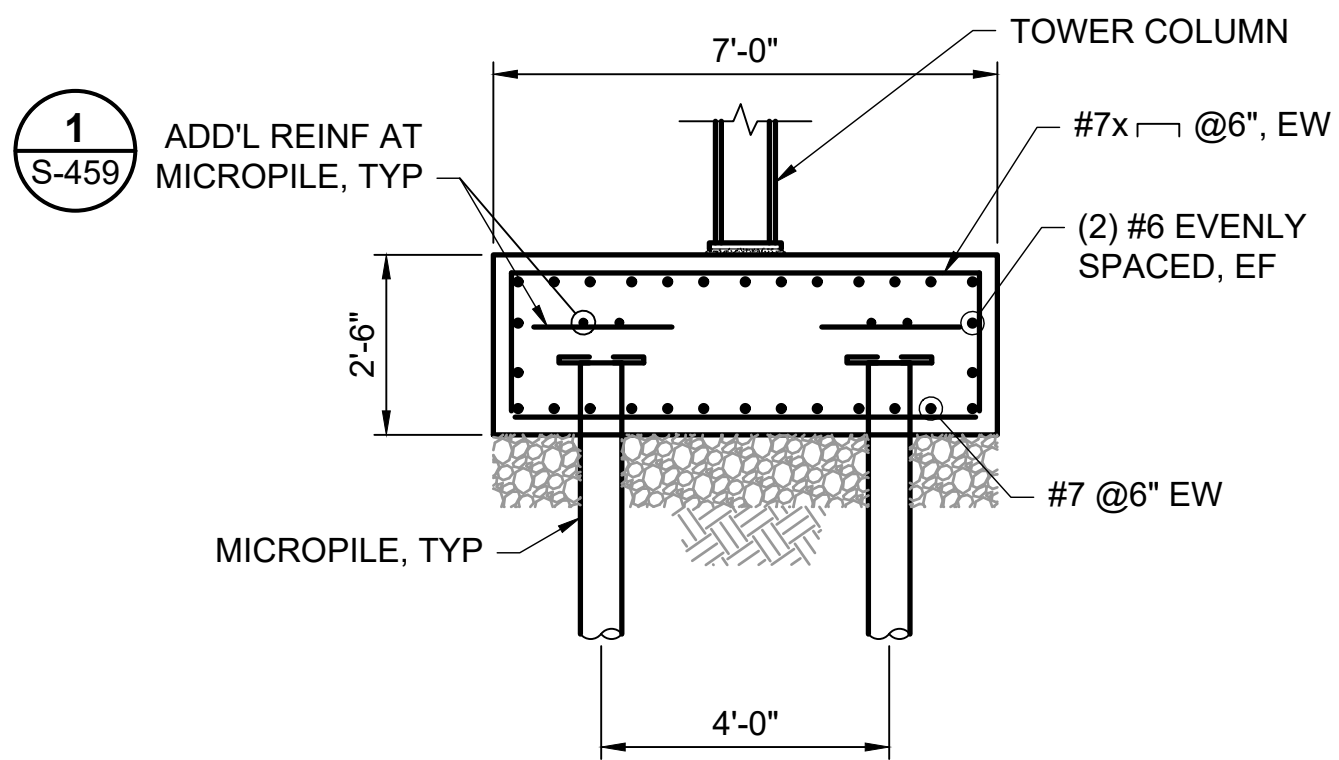
PROJECT:	16667
DRAWN BY:	D.SALDARRIAGA
DESIGNER:	T.FALES
APPROVED BY:	M.GRAESER
SHEET:	178 OF 240
DRAWING:	S-417



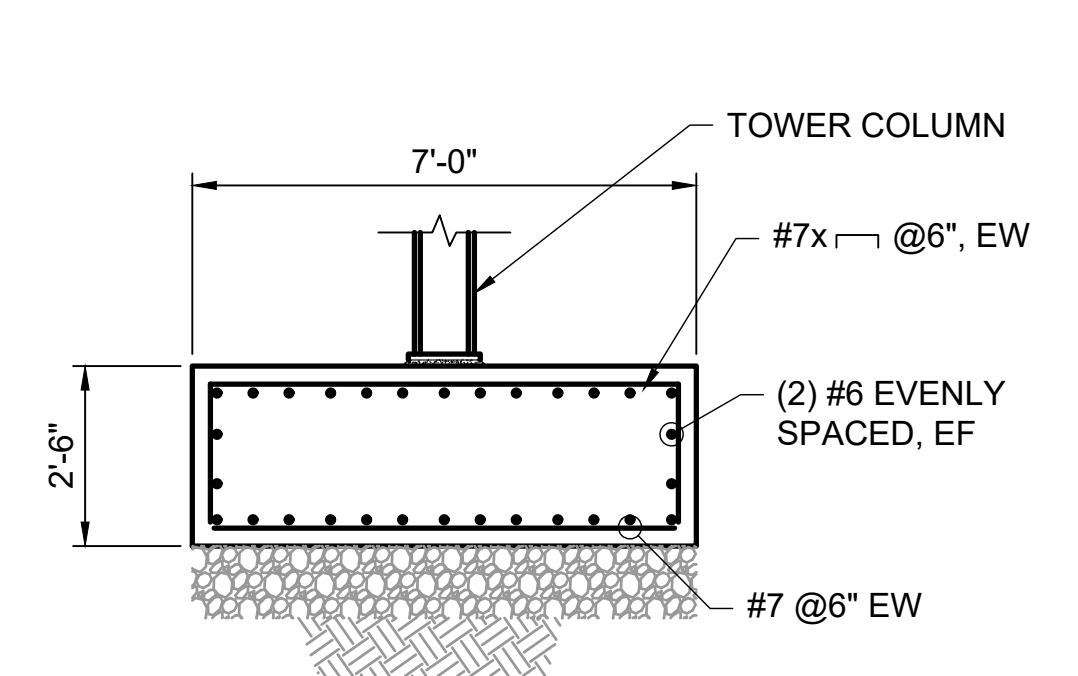
TYPE N FOUNDATION PLAN
SCALE: 1/4"=1'-0"
0 4' 8'

MICROPILE SCHEDULE						
TYPE	QTY	MAX. OUTSIDE CASING DIAMETER	HEAD EL	CASED LENGTH	UNCASED LENGTH	MINIMUM PENETRATION IN COMPETENT BEDROCK
N	18	0'-7"	108.5'	12'-6"	8'-0"	13'-0"

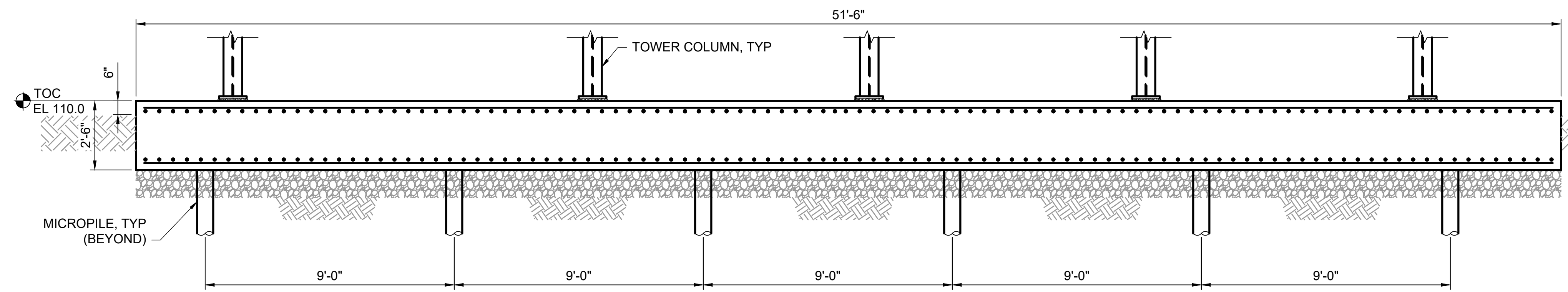
NOTE:
1. COMPETENT BEDROCK ELEVATION ASSUMED TO BE ELEVATION 101±. COMPETENT BEDROCK SHALL BE DETERMINED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.



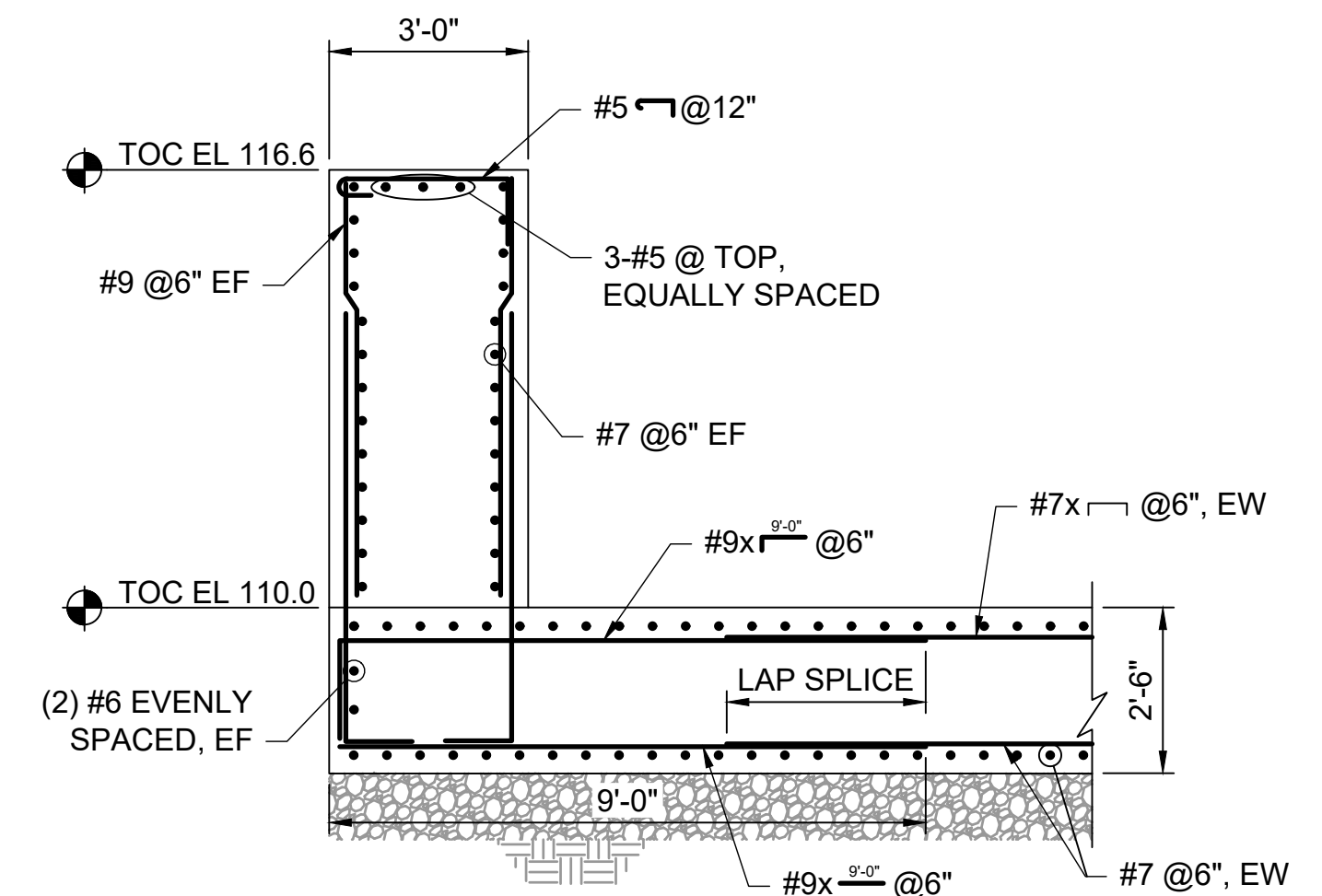
A SECTION
SCALE: 3/8" = 1'-0"
0 2' 4'



B SECTION
SCALE: 3/8" = 1'-0"
0 2' 4'



D SECTION
SCALE: 3/8" = 1'-0"
0 2' 4'



E SECTION
SCALE: 3/8" = 1'-0"
0 2' 4'



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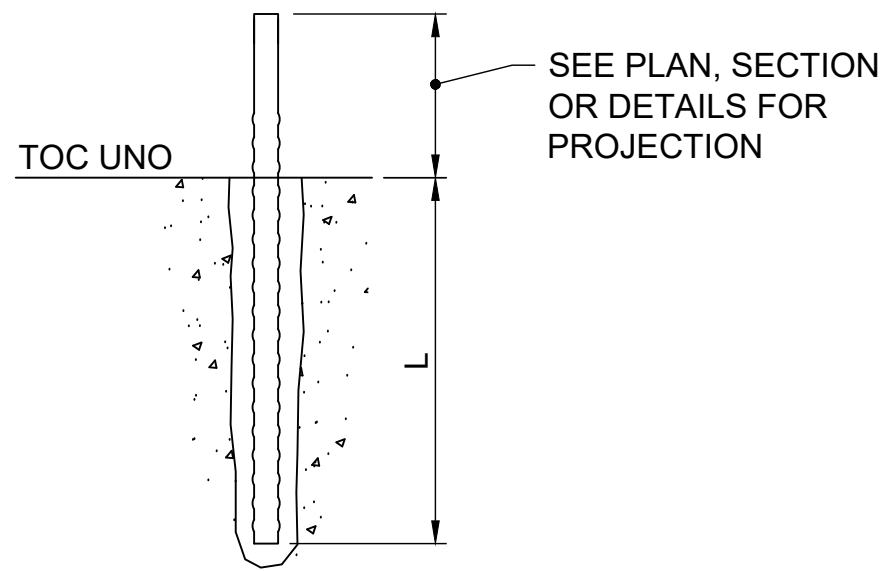
FOUNDATION PLANS AND SECTIONS

PROJECT:	16667
DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
APPROVED BY:	M. GRAESER
SHEET:	188 OF 240
DRAWING:	S-456

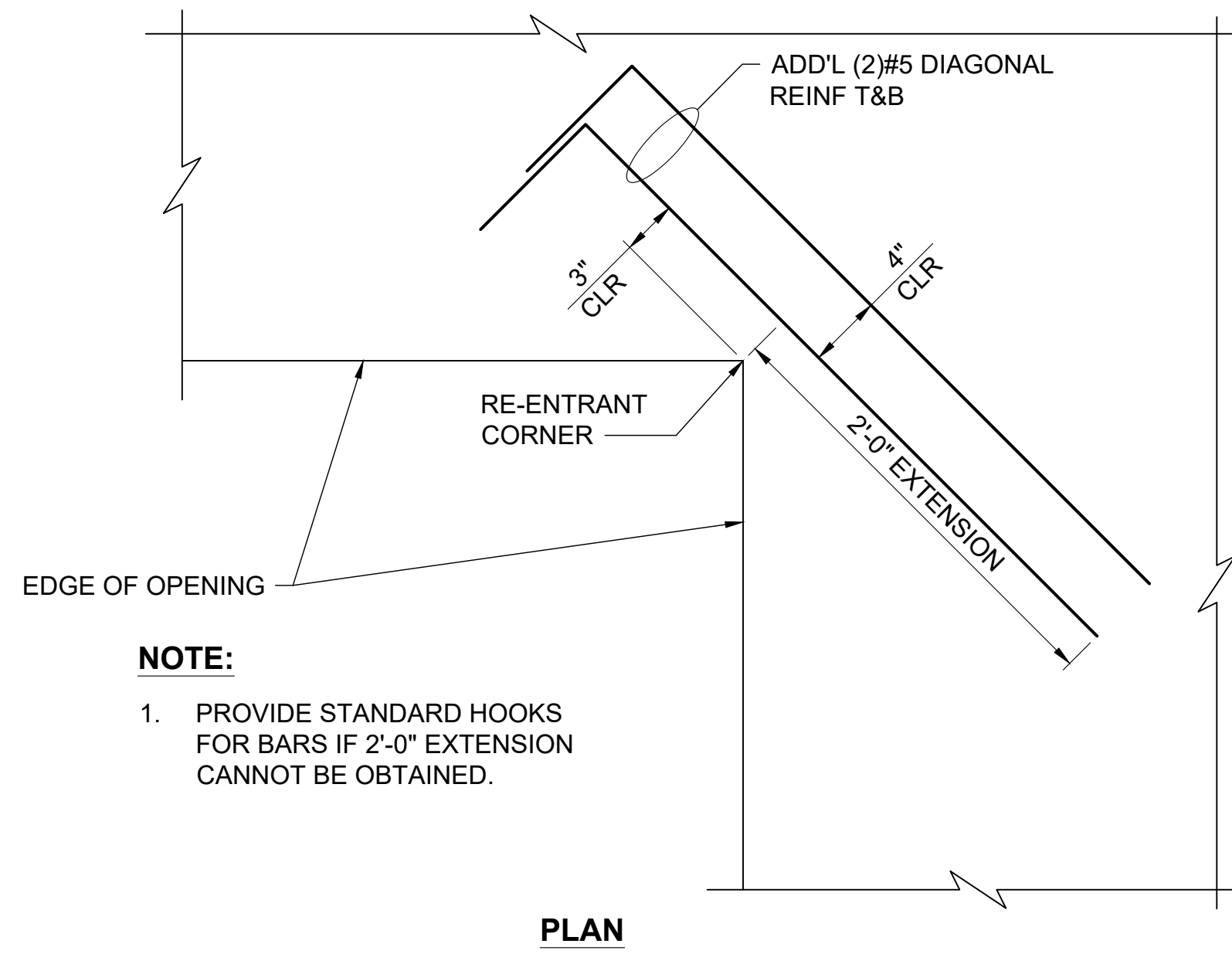
NOTES:

1. DOWEL EDGE DISTANCE SHALL BE A MINIMUM OF 1.5 X L, UNO ON THE DRAWINGS. SMALLER EDGE DISTANCES SHALL BE APPROVED BY THE ENGINEER OF RECORD.
2. MINIMUM CENTER TO CENTER SPACING OF DOWELS SHALL BE 3 X L, UNO ON THE DRAWINGS. SMALLER BOLT SPACINGS SHALL BE APPROVED BY THE ENGINEER OF RECORD.
3. HOLES SHALL BE DRILLED USING A HAMMER DRILL AND CARBIDE BIT, OR EQUAL.
4. REINFORCEMENT SHALL BE ASTM A615 GRADE 60.

BAR SIZE	"L" MIN (IN)
4	6
5	8
6	10
7	13.5
8	16
9	18.5
10	21



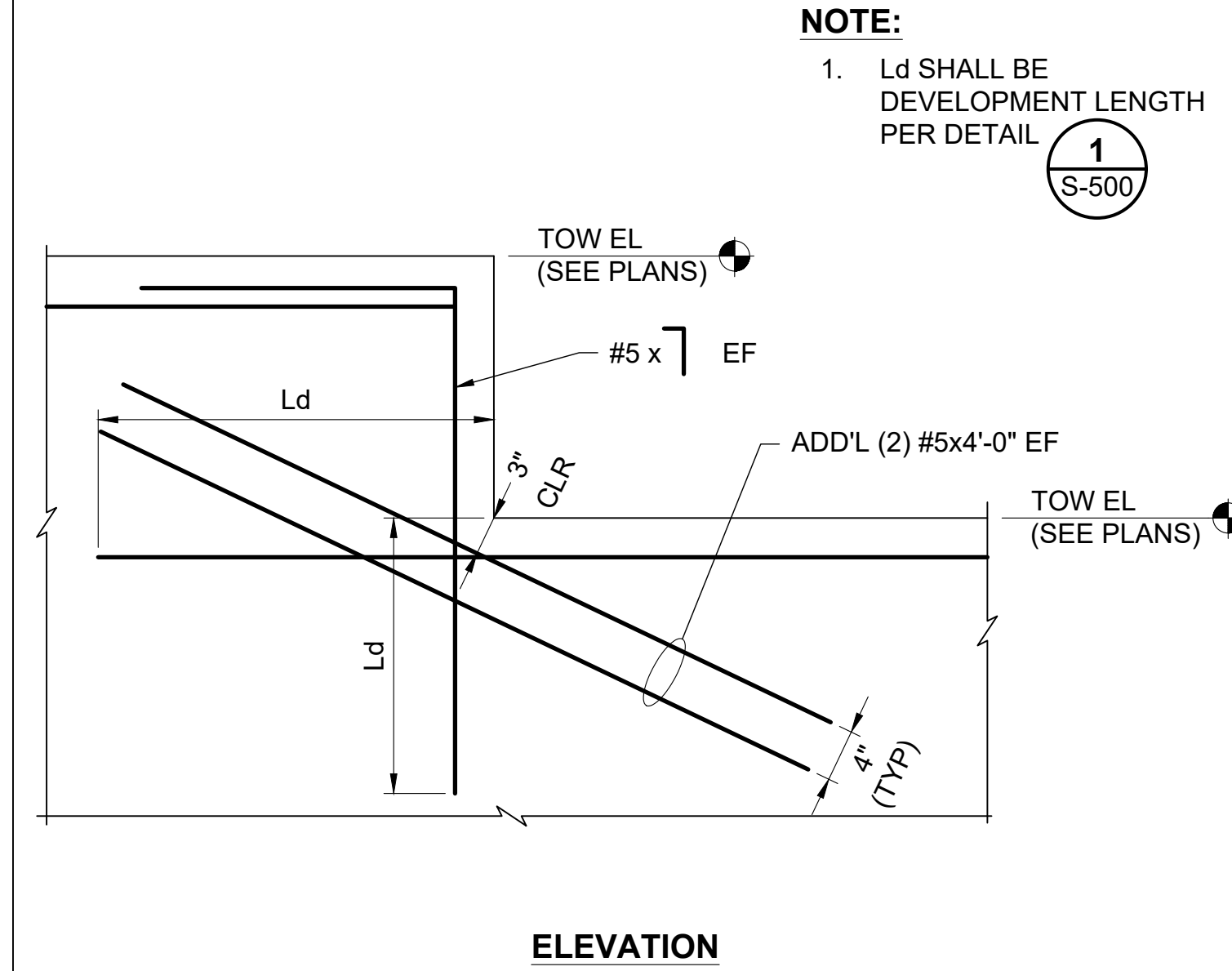
1 REBAR ADHESIVE ANCHOR DETAIL
SCALE: NTS



NOTE:

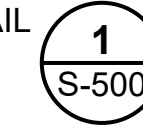
1. PROVIDE STANDARD HOOKS FOR BARS IF 2'-0" EXTENSION CANNOT BE OBTAINED.

2 RE-ENTRANT CORNER DETAIL
SCALE: NTS

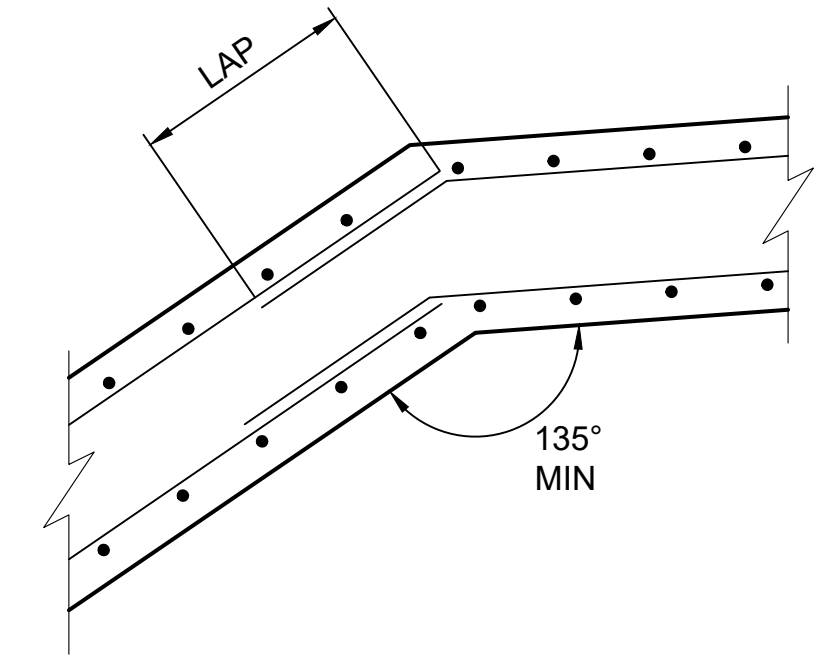


NOTE:

1. Ld SHALL BE DEVELOPMENT LENGTH PER DETAIL



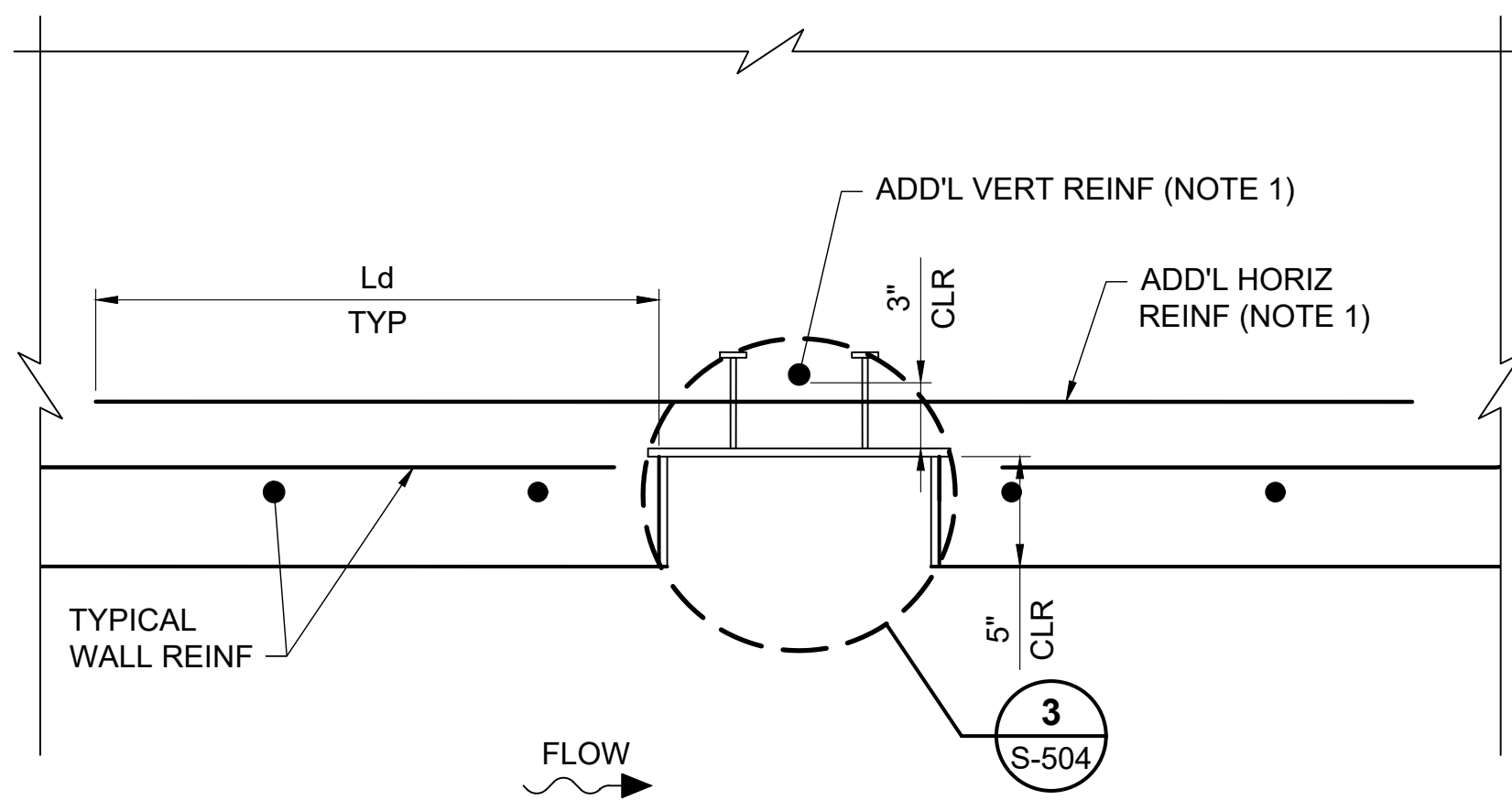
3 STEP IN TOP OF WALL DETAIL
SCALE: NTS



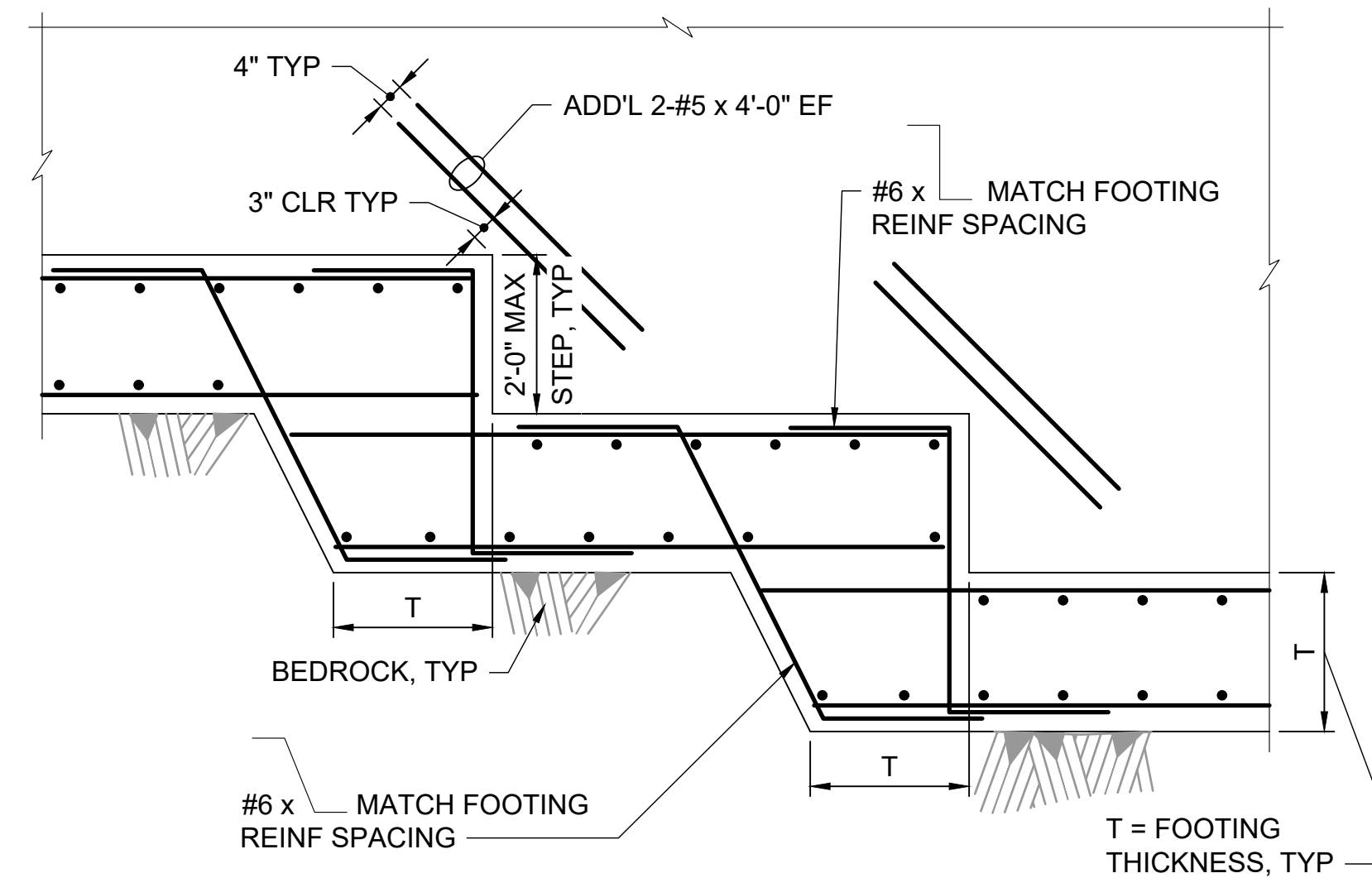
4 CORNER DETAIL
SCALE: NTS

NOTES:

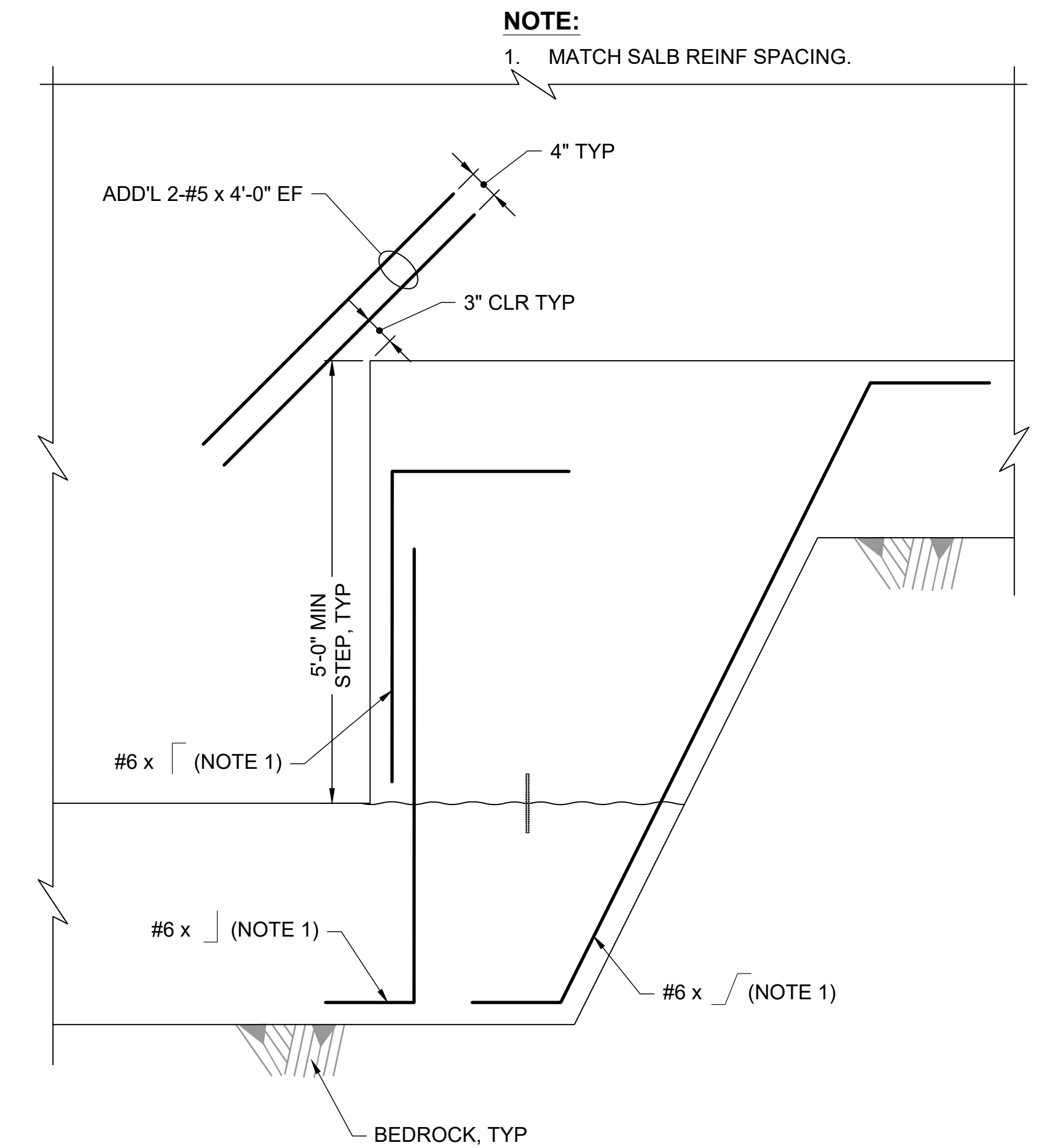
1. ADD'L REINF SIZE AND SPACING SHALL MATCH WALL REINF.
2. Ld SHALL BE DEVELOPMENT LENGTH PER DETAIL.



5 BULKHEAD/STOPLOG SLOT DETAIL
SCALE: NTS



6 STEPPED FOOTING
SCALE: NTS



7 LARGE STEP IN FOUNDATION/BASE SLAB
SCALE: NTS



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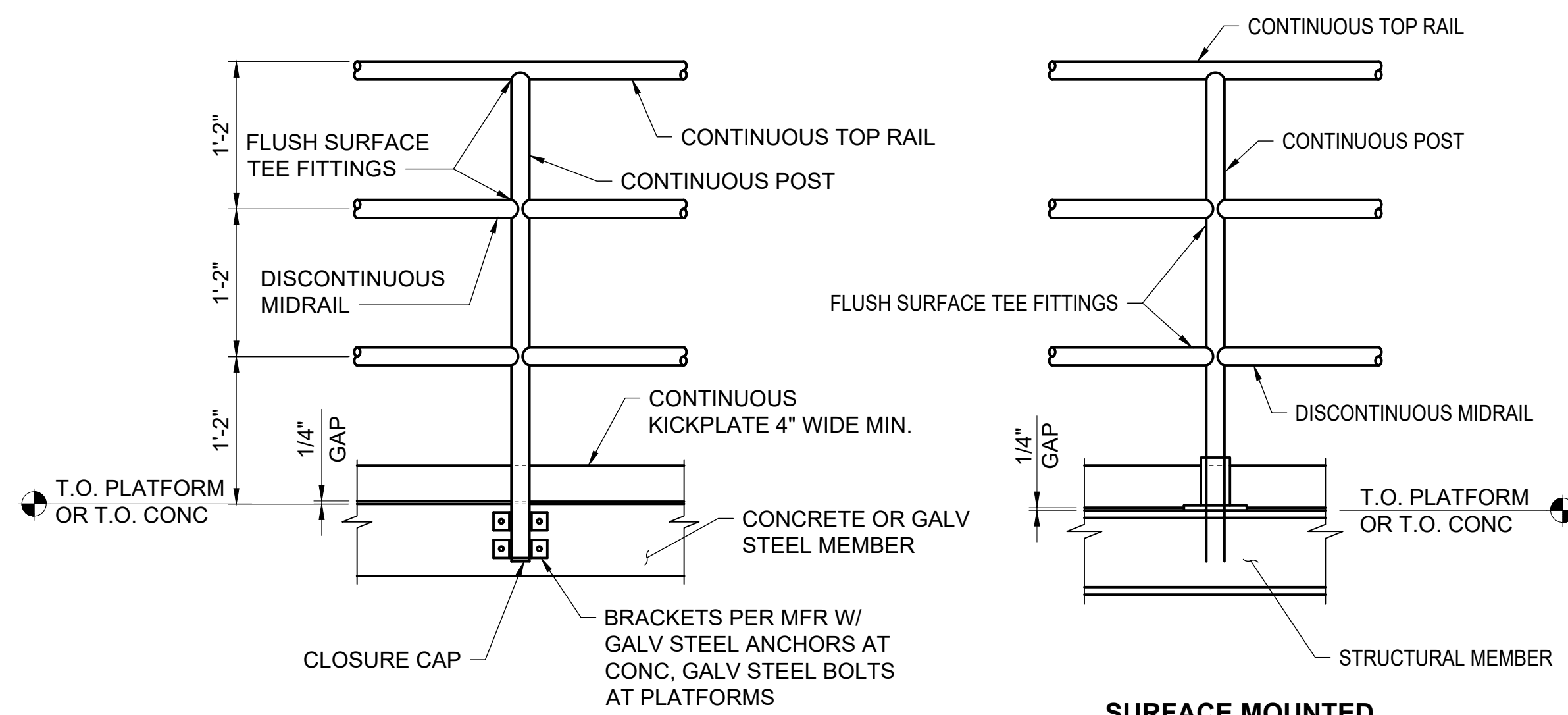
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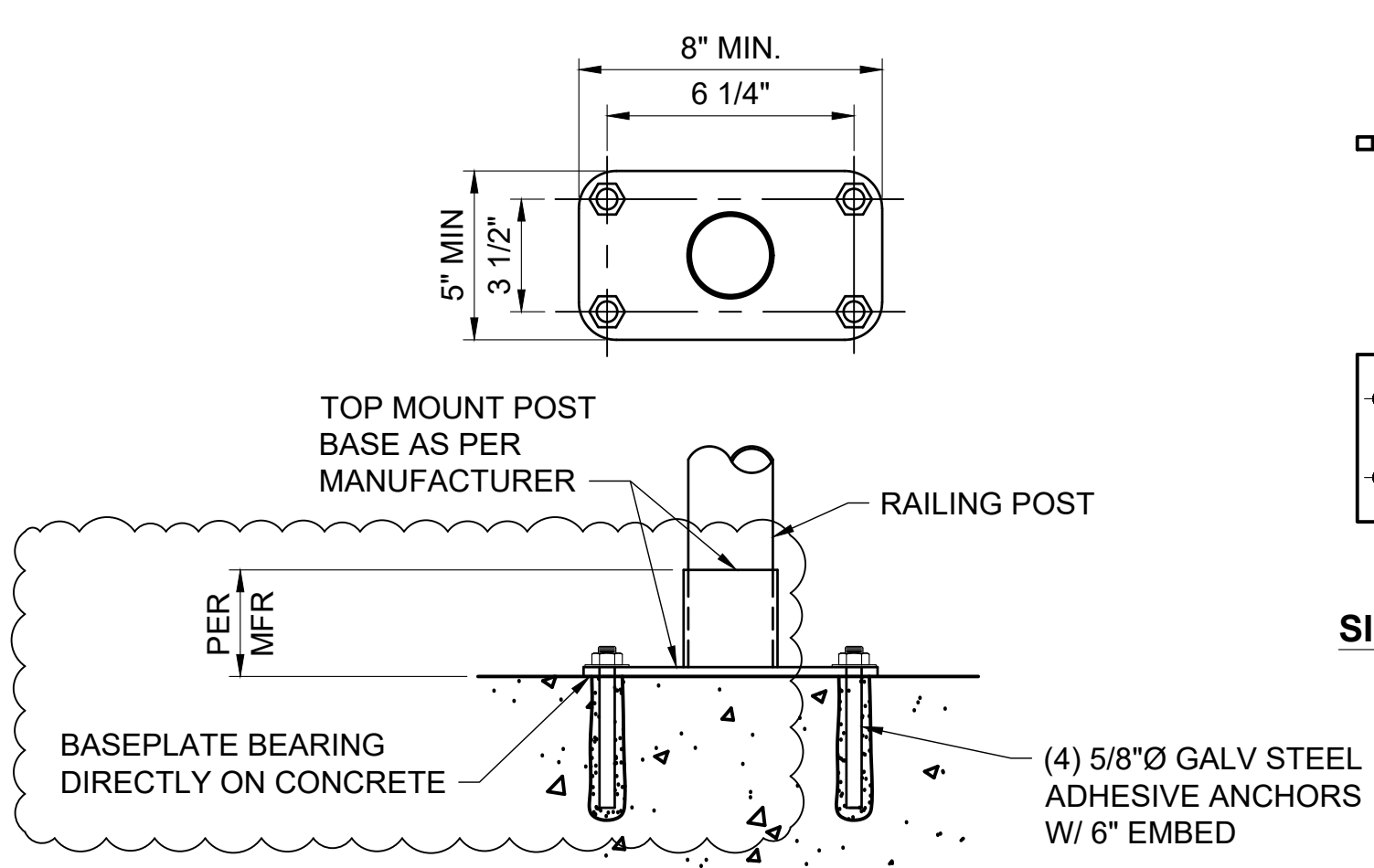
WOODLAND FISH LIFT PASSAGE DESIGN
MAINE DEPARTMENT OF MARINE RESOURCES

STRUCTURAL STANDARD DETAILS

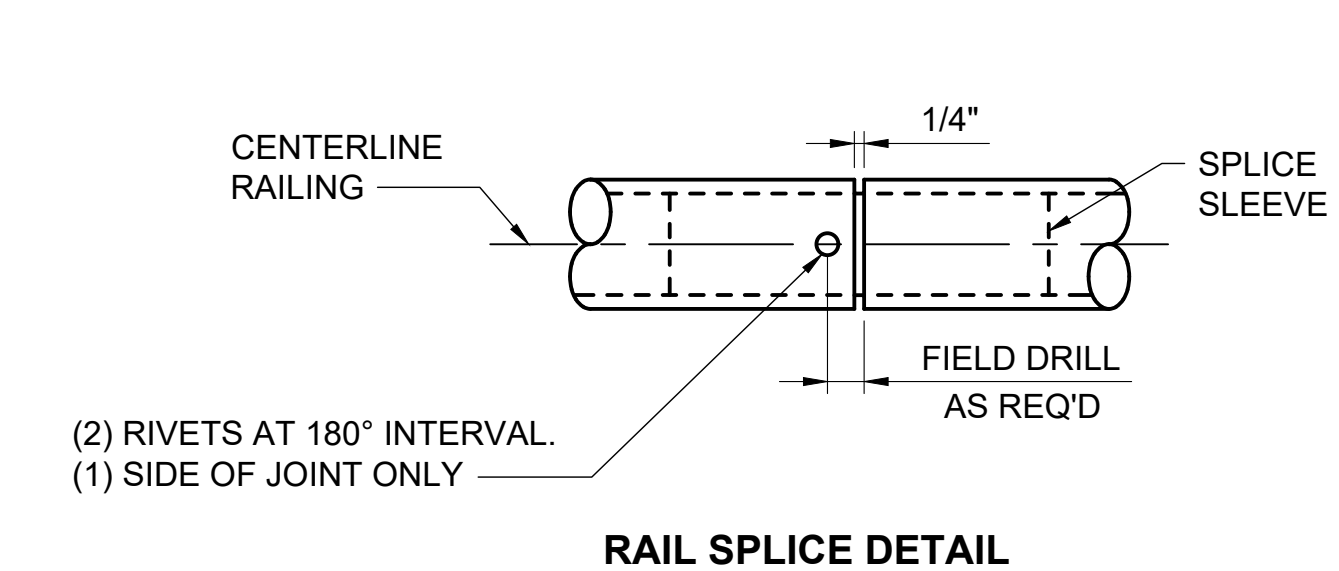
PROJECT:	16667
DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
APPROVED BY:	M. GRAESER
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DRAWING:	S-502



SIDE MOUNTED POST DETAIL



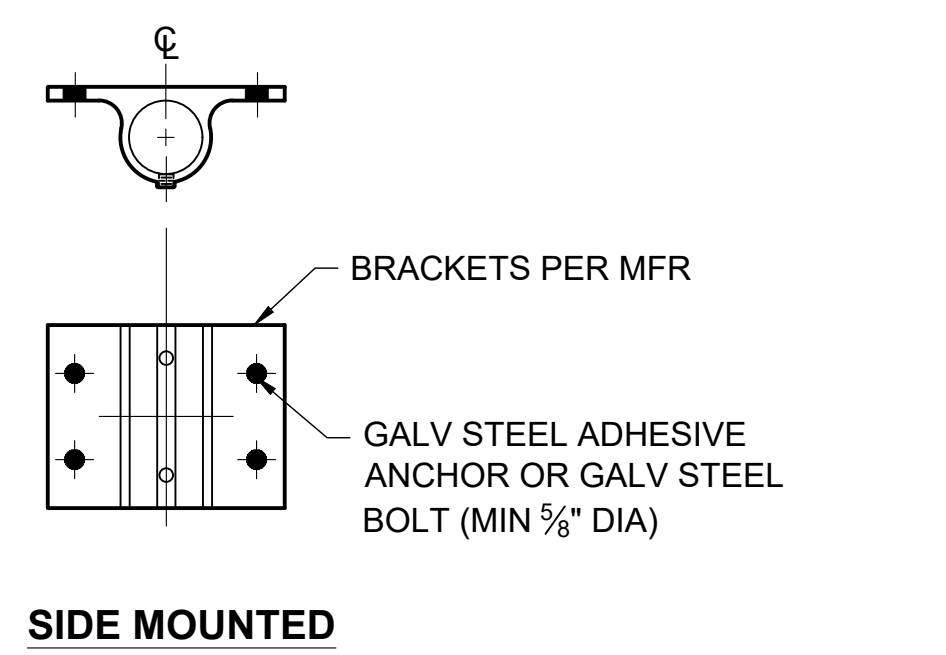
SURFACE POST DETAIL



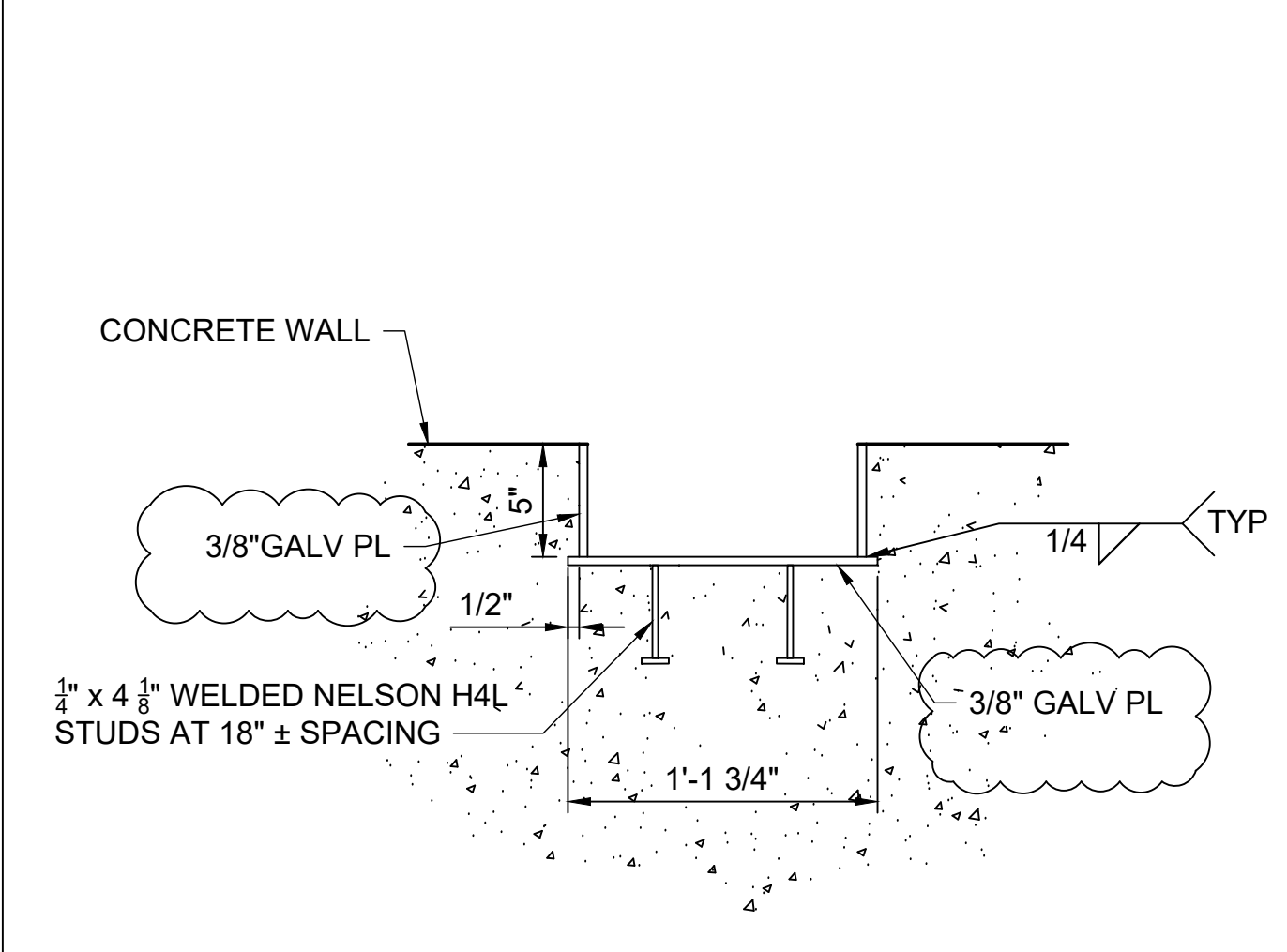
RAIL SPLICE DETAIL

- RAILING NOTES:**
- ALL KICKPLATES, AND ACCESSORIES SHALL BE GALVANIZED STEEL, PER SPECIFICATIONS.
 - ALL RAILING SHALL BE GALVANIZED STEEL PER SPECIFICATIONS.
 - ALL RAILS AND POSTS MUST BE SIZED AND SPACED TO SATISFY ALL APPLICABLE CODES AND STANDARDS. MAX POST SPACING = 4'-0".
 - MAXIMUM RAIL SPLICE LENGTH = 24'-0".

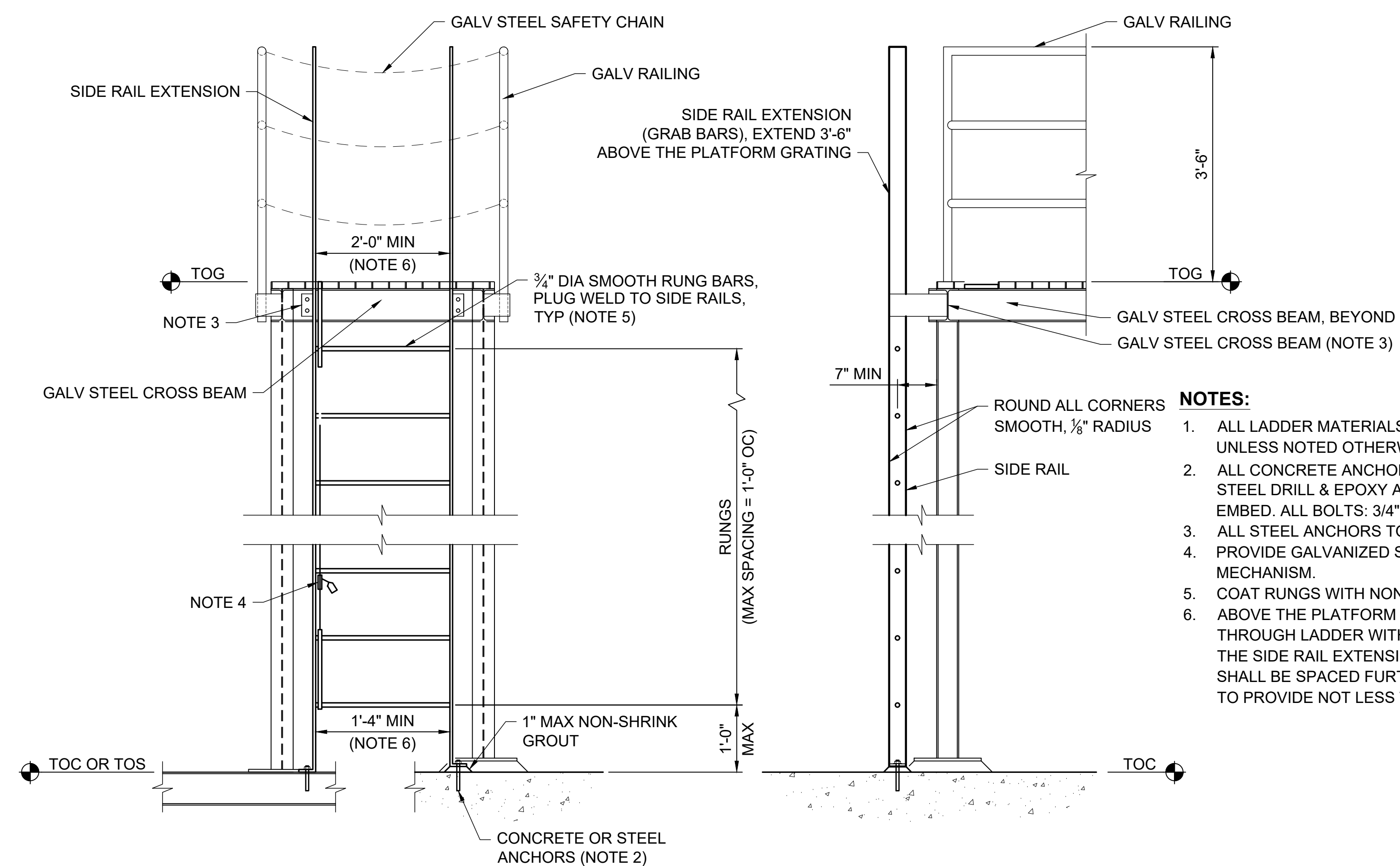
1 HANDRAIL DETAIL
SCALE: NTS



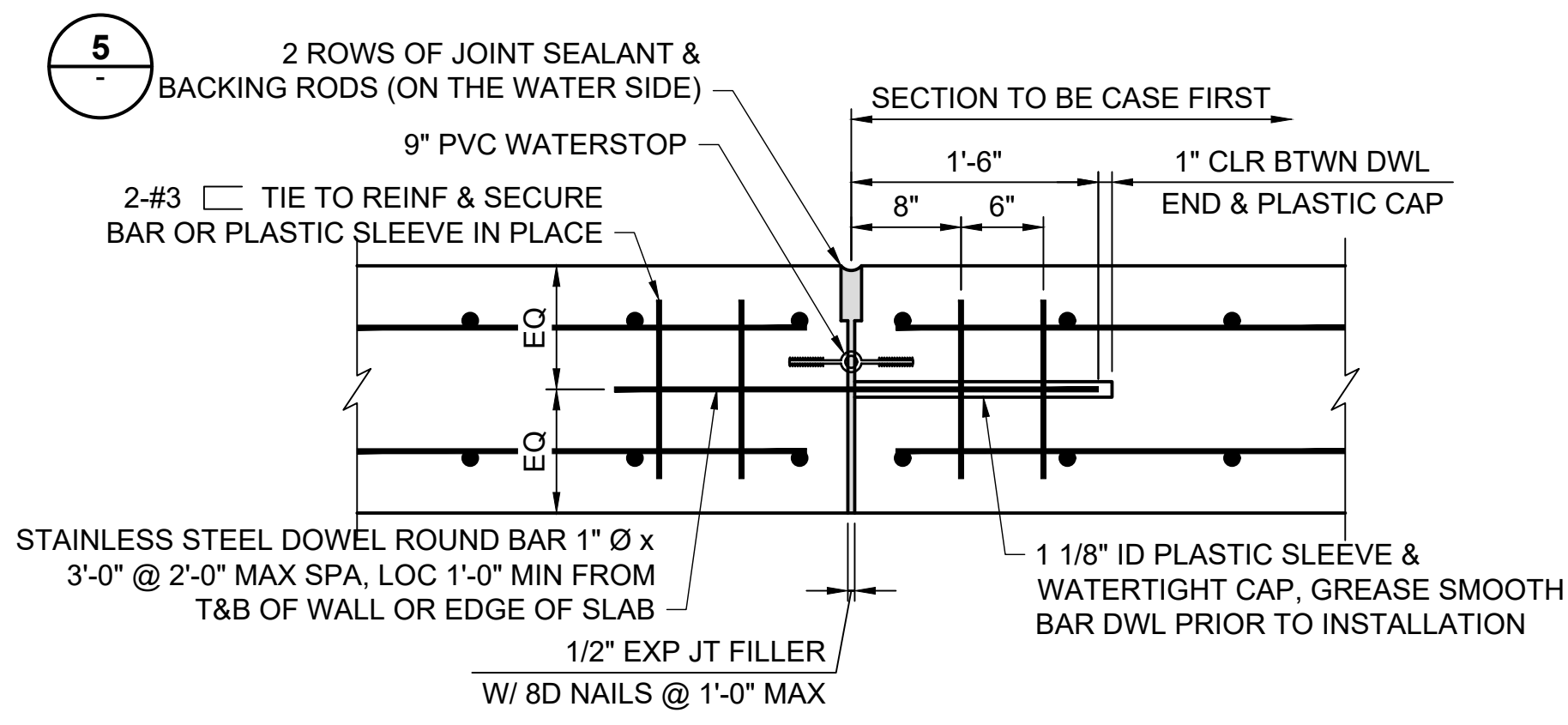
SIDE MOUNTED



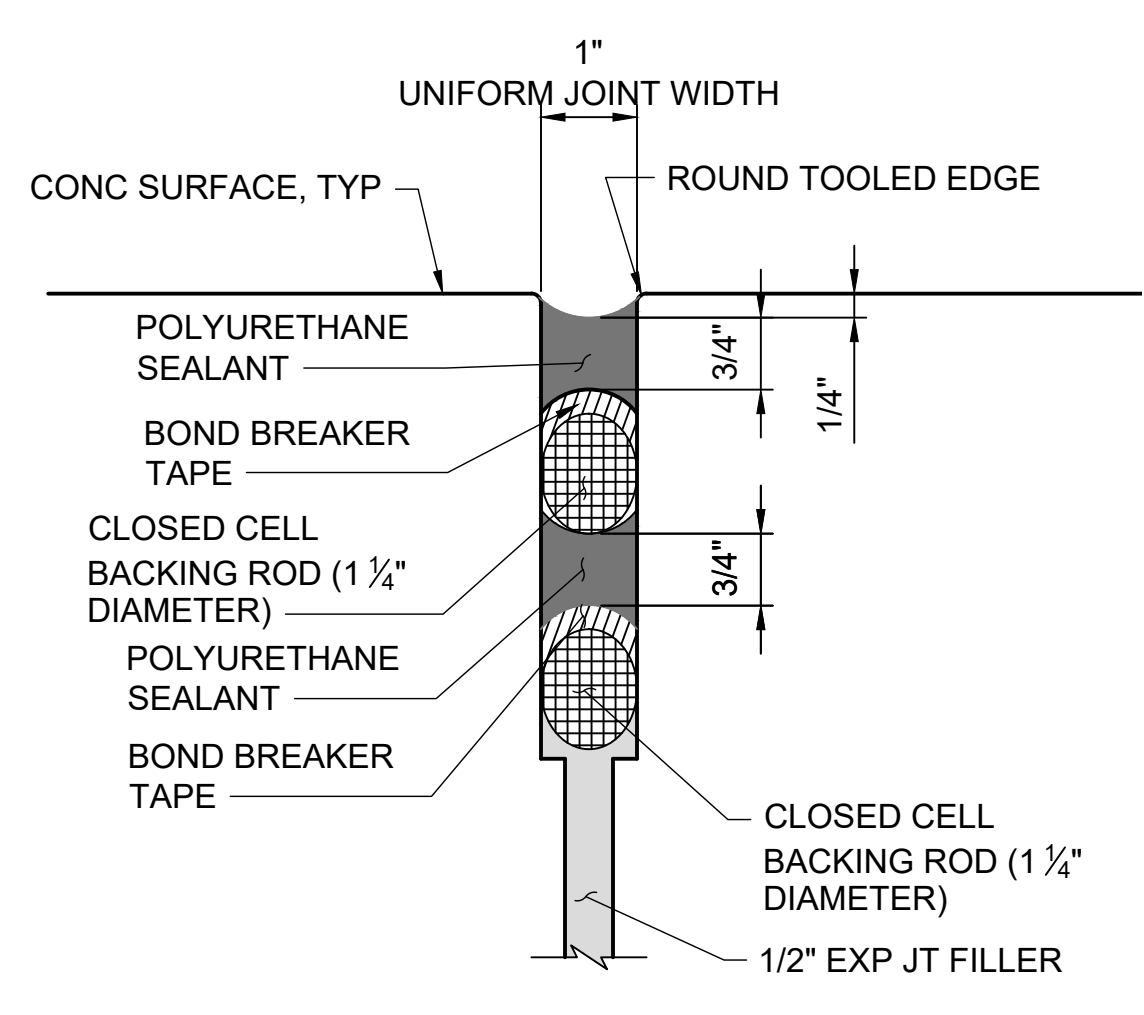
3 EMBEDMENT FOR SLOT
SCALE: NTS



2 GALVANIZED STEEL FIXED LADDER DETAIL
SCALE: NTS



4 TYPICAL EXPANSION JOINT DETAIL
SCALE: NTS



5 JOINT SEALANT (DOUBLE)
SCALE: NTS



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WOODLAND FISH LIFT PASSAGE DESIGN
MAINE DEPARTMENT OF MARINE RESOURCES

STRUCTURAL STANDARD DETAILS

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DRAWN BY:	C. HAGLER
DESIGNER:	A. MENGERT
APPROVED BY:	M. GRAESER
SHEET:	196 OF 240
DRAWING:	S-504