

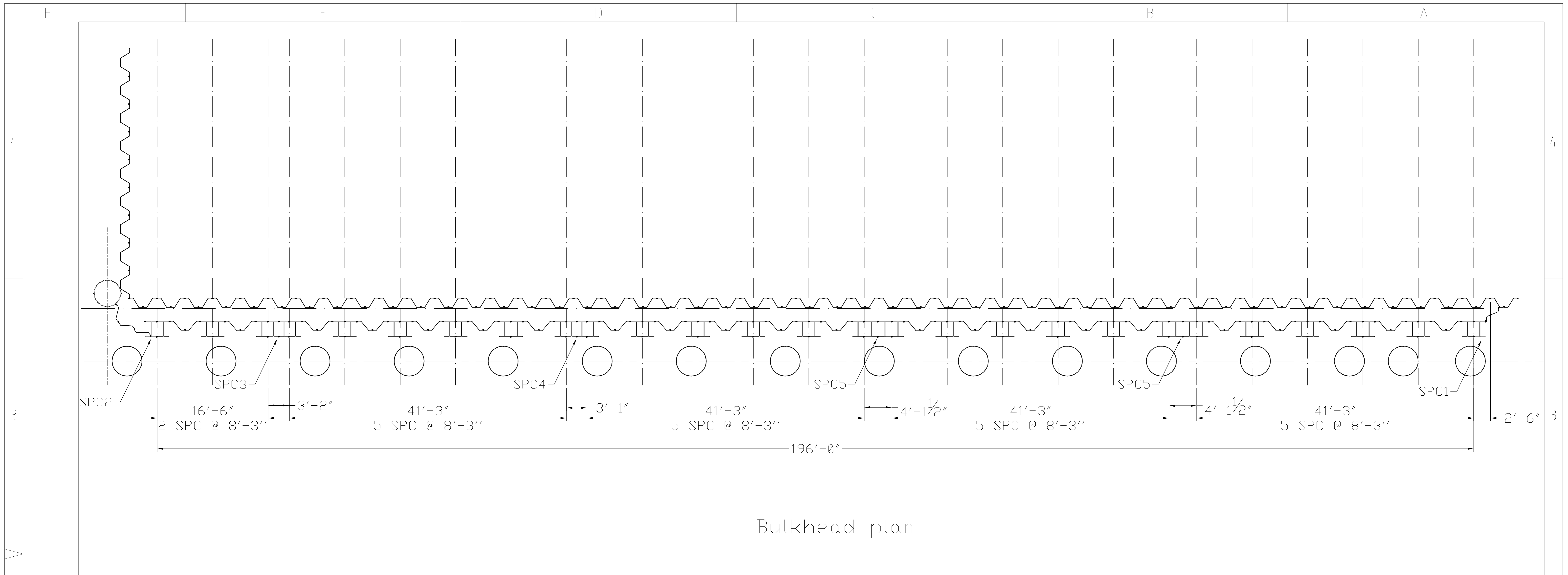
## Port of Port Arthur Berth 5 Construction

LAN Project No.: 120-10849-016

McCarthy RFI No.: 016

RFI Date: 01/04/2018

1. **Q on Bulkhead Improvement Wall:** A pile vendor has come up with a different King pile wall detail using fabricated W-sections & connectors for the bulkhead system at the existing bulkhead (Bulkhead Improvement). Their design is attached to this RFQ. Please advise if this system is approved prior to the bid date.
2. **Q on Track Rail:** Instead of the cast-in-place U-Bolt shown on Sections 3 & 5 on Dwg. No.: R151, can we instead post install a 7/8"Ø X 11" long all-thread rod with a Hilti HIT-RE 500 V3 epoxy adhesive? (See attached sketch that shows this system).
3. **Q from Tie-Back Anchor S/C:** Note 12 on Dwg. No.: S 001 and the responses to RFI's indicate that the contractor is responsible for design of the grouted tiebacks. But Section 1 on Dwg. No.: S 150 Rev. 03, shows bonded lengths and grout core diameters for bidding. Is it the Port's intent for the grouted tieback contractors to bid the design shown on the drawing and if so is this current design being stamped by the owner's engineer? If the owners engineer is not providing a stamped grouted tieback design, please advise if the grouted tieback contractors can come up with a design system of their own.
4. **Q from Tie-Back Anchor S/C:** Please confirm that the revised design from the pdf titled "W-27 Combi-wall Revised Plan Layout" accounts for a designed horizontal force per foot of bulkhead of 19.25 kips. This was described within the response from RFI #287 but on Drawing S150 Rev03 Note 1 it still states 38.5 k/ft.
5. **Q from Tie-Back Anchor S/C:** Please provide the maximum loading (PSF) allowed for construction equipment on the existing pavement of the relieving platform at the location of the grouted tie-backs. This will help identify if the placement of the grouted tie-rods can be done from land.
6. With the quantity of H-piles increasing with the revised bulkhead improvement design, please advise if additional time will be added to the overall project duration.
7. Notes on Dwg. No.: S 301 Rev. No.: 4 indicate that the AZ19-700's are  $F_y = 50$  ksi. But response to question 116 indicate the sheets to be Grade 65. Please confirm sheet piling grade for the King Pile wall (H-Piles) & the combi-pipe pile wall.

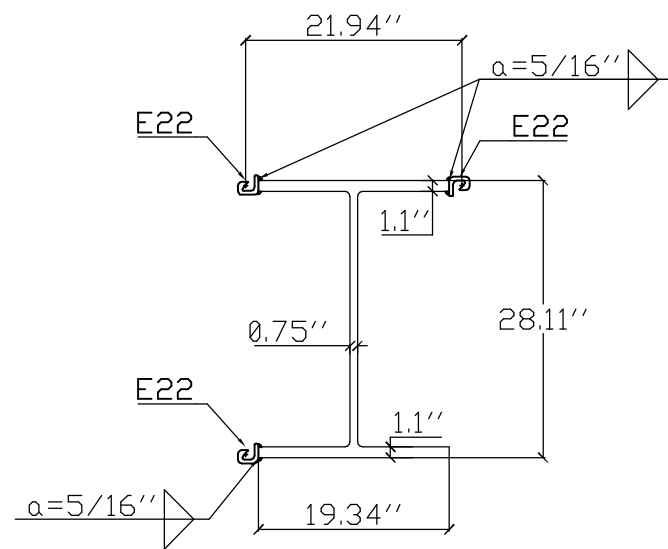


Designer <b>BOREK</b>	Checking <b>KWARCIŃSKI</b>	Project manager	Date <b>27.12.2017</b>	Drawing's No. <b>1</b>	Rev. <b>A</b>	<b>1/1</b>
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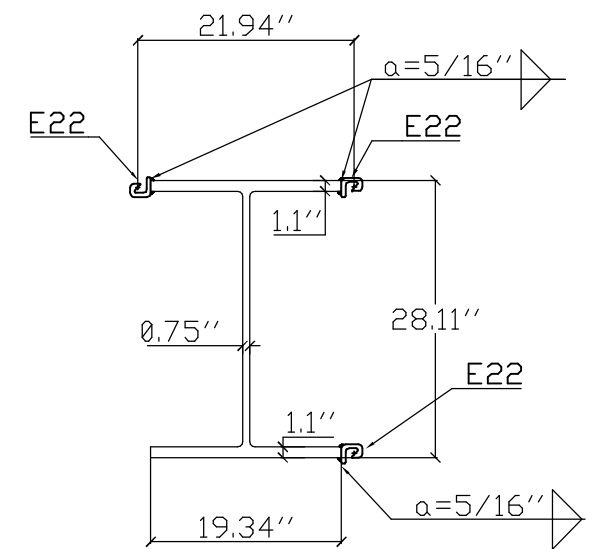
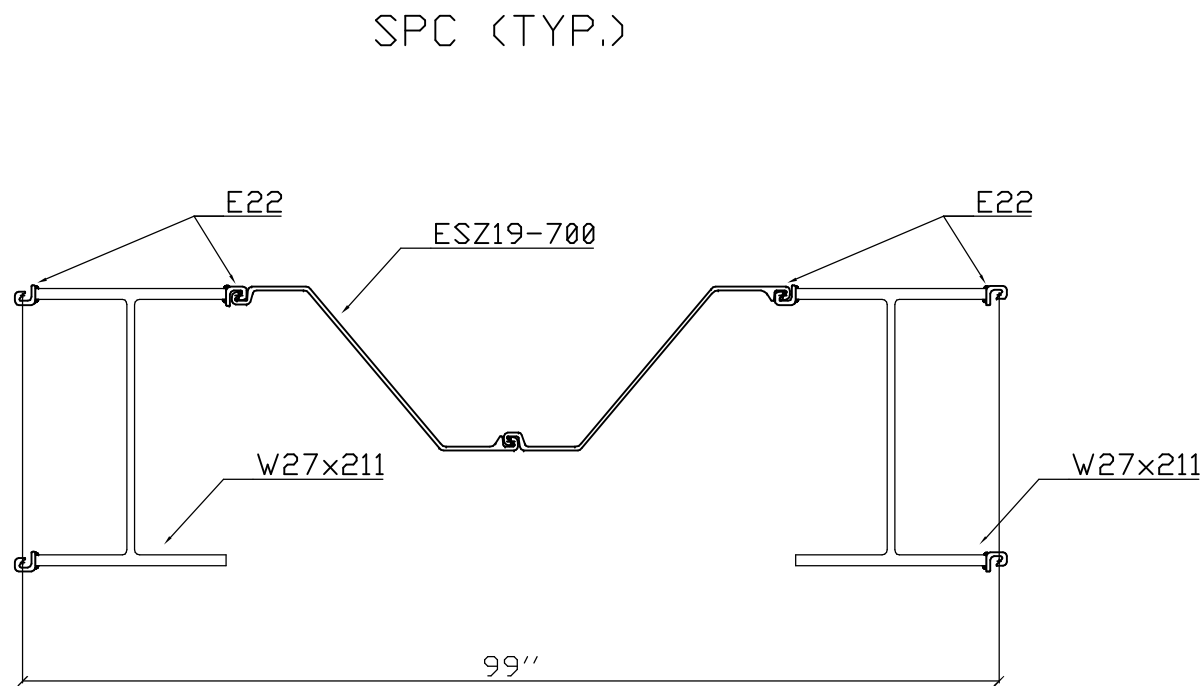


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**Construction Berth 5 – Port Arthur, TX**



SPC 1



SPC 2

W27x211 with welded locks

King pile properties  
 50 ksi yield strength  
 Cross section area: 62,25 in<sup>2</sup>  
 Weight of single pile: 211 lb/ft

System properties:  
 Combi wall design with ESZ 19-700  
 System width 99"  
 Section modulus: 161,58 in<sup>3</sup>/ft  
 Moment of inertia: 2563 in<sup>4</sup>/ft

Designer  
BOREK

Checking  
KWARCINSKI

Project manager

Date

27.12.2017

Drawing's No.

2

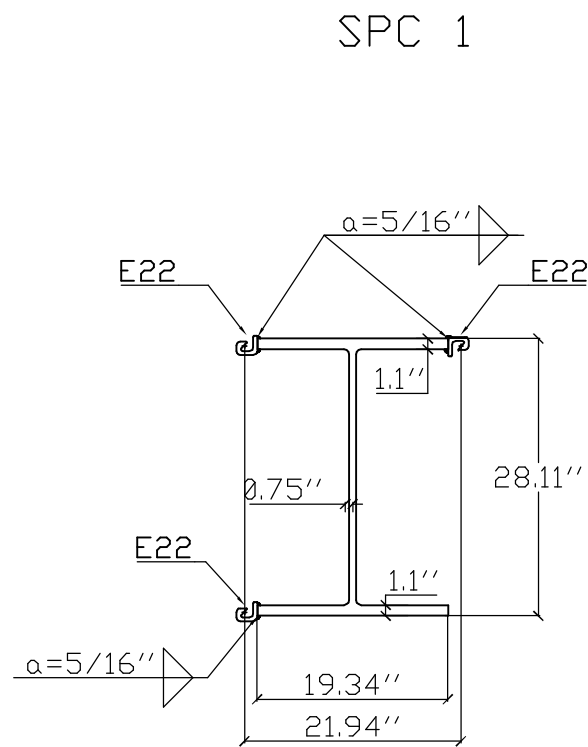
Rev.  
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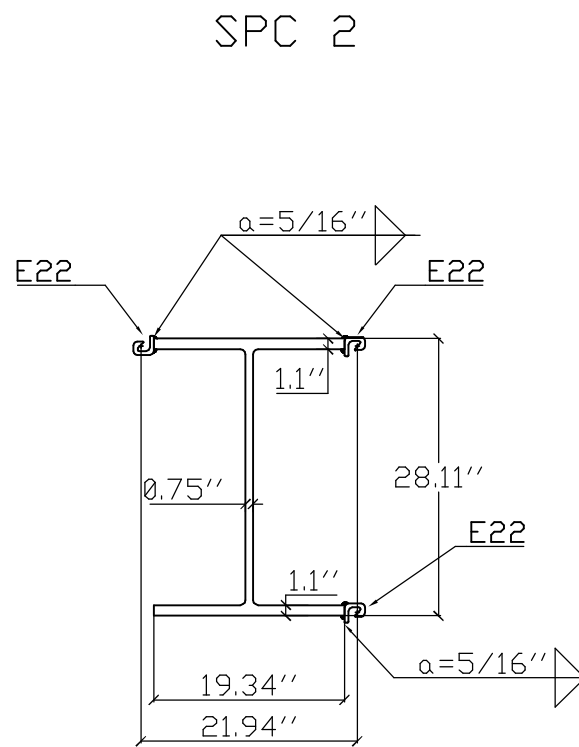
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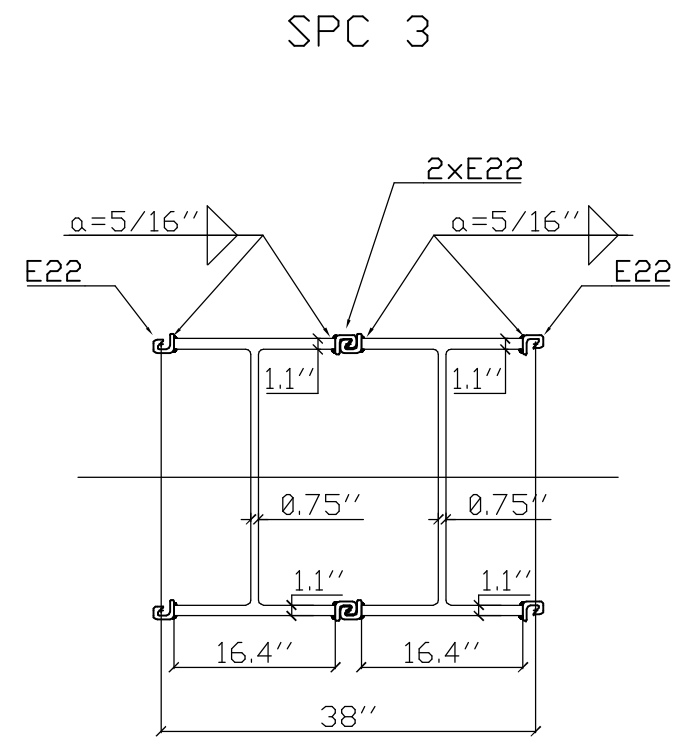
W27x211 with welded locks

King pile properties  
 50 ksi yield strength  
 Cross section area: 62,25 in<sup>2</sup>  
 Weight of single pile: 211 lb/ft



W27x211 with welded locks

King pile properties  
 50 ksi yield strength  
 Cross section area: 62,25 in<sup>2</sup>  
 Weight of single pile: 211 lb/ft



W27x189 with welded locks

King pile properties  
 50 ksi yield strength  
 Cross section area: 55,78 in<sup>2</sup>  
 Weight of single pile: 189 lb/ft

Designer

BOREK

Checking

KWARCIŃSKI

Project manager

Date

27.12.2017

Drawing's No.

3

Rev.

A

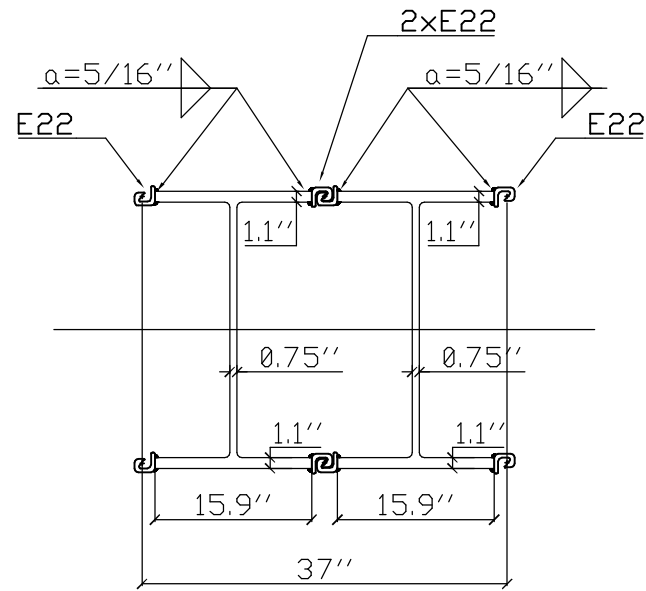
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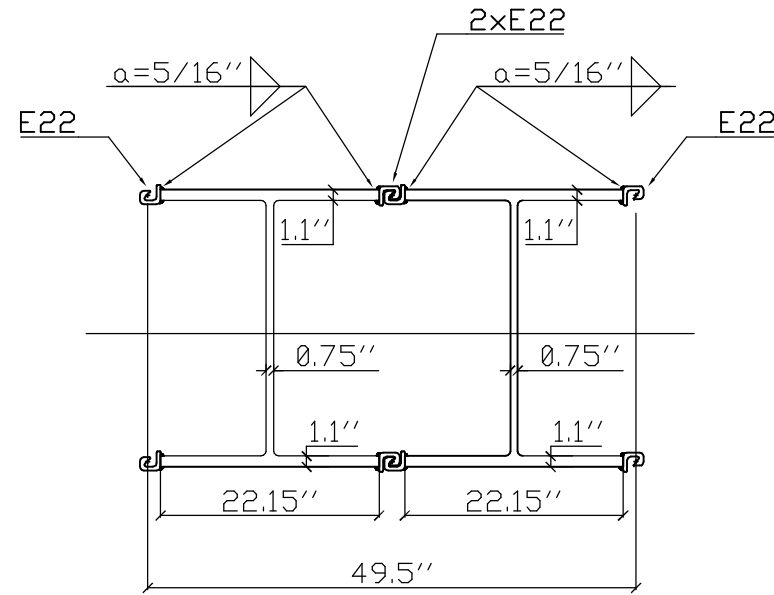
SPC 4



W27x186 with welded locks

King pile properties  
 50 ksi yield strength  
 Cross section area: 54.68in<sup>2</sup>  
 Weight of single pile: 186 lb/ft

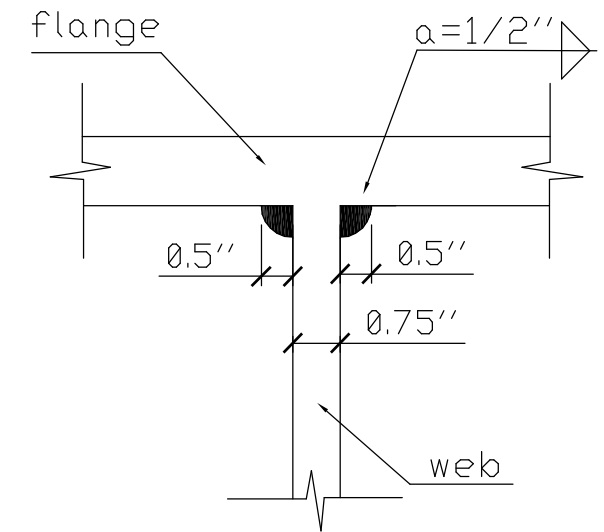
SPC 5



W27x233 with welded locks

King pile properties  
 50 ksi yield strength  
 Cross section area: 68.43in<sup>2</sup>  
 Weight of single pile: 233 lb/ft

Weld detail TYP



Designer

BOREK

Checking

KWARCIŃSKI

Project manager

Date

04.01.2018

Drawing's No.

4

Rev.

B

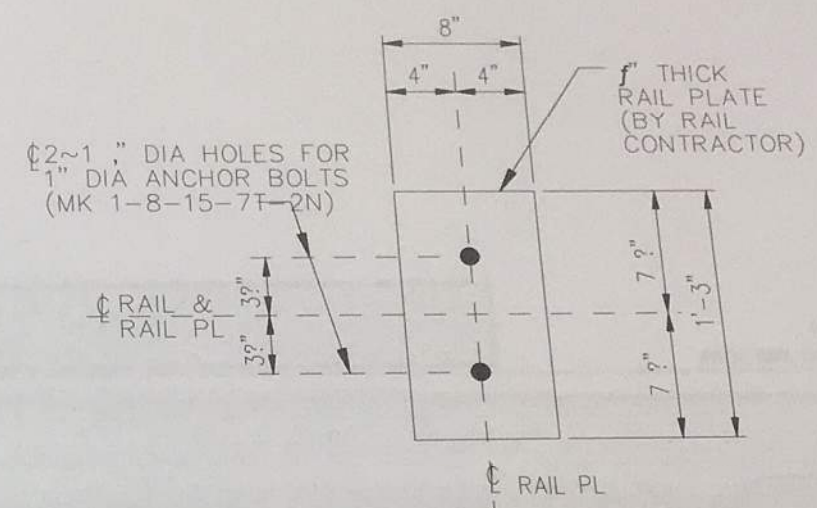
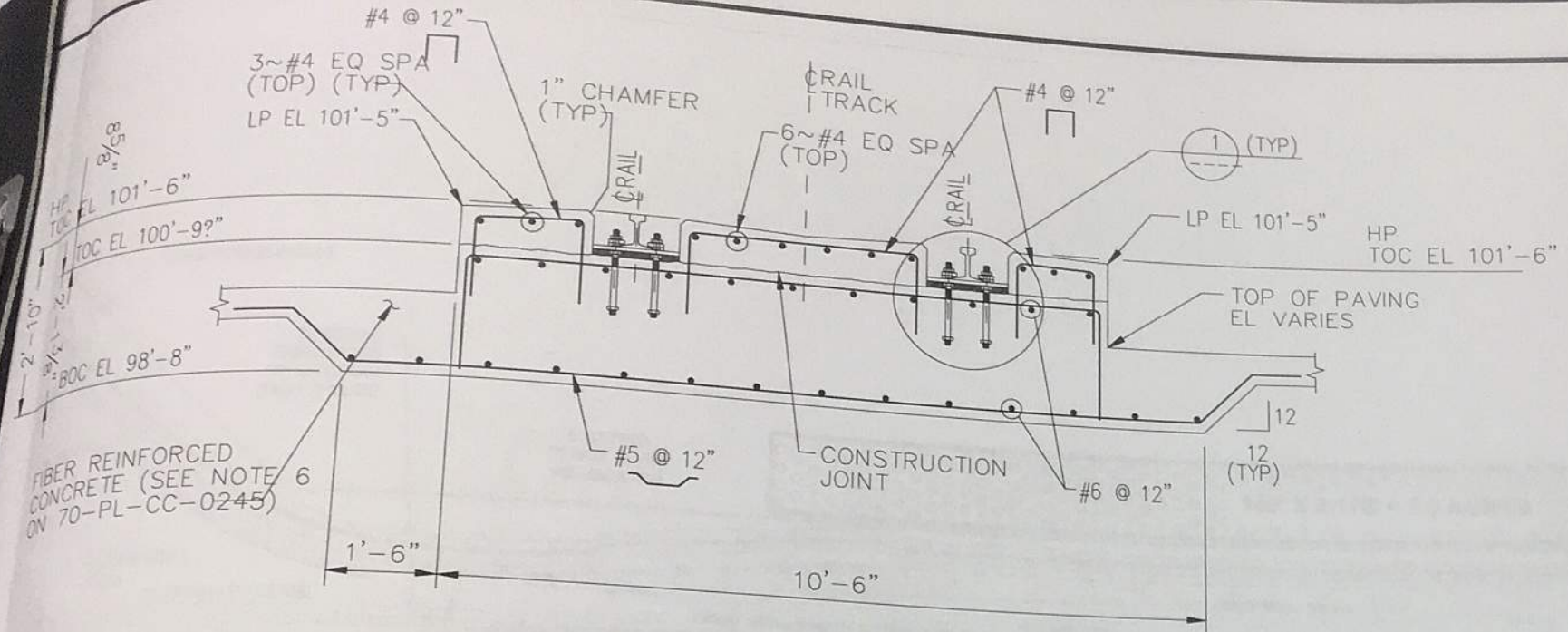
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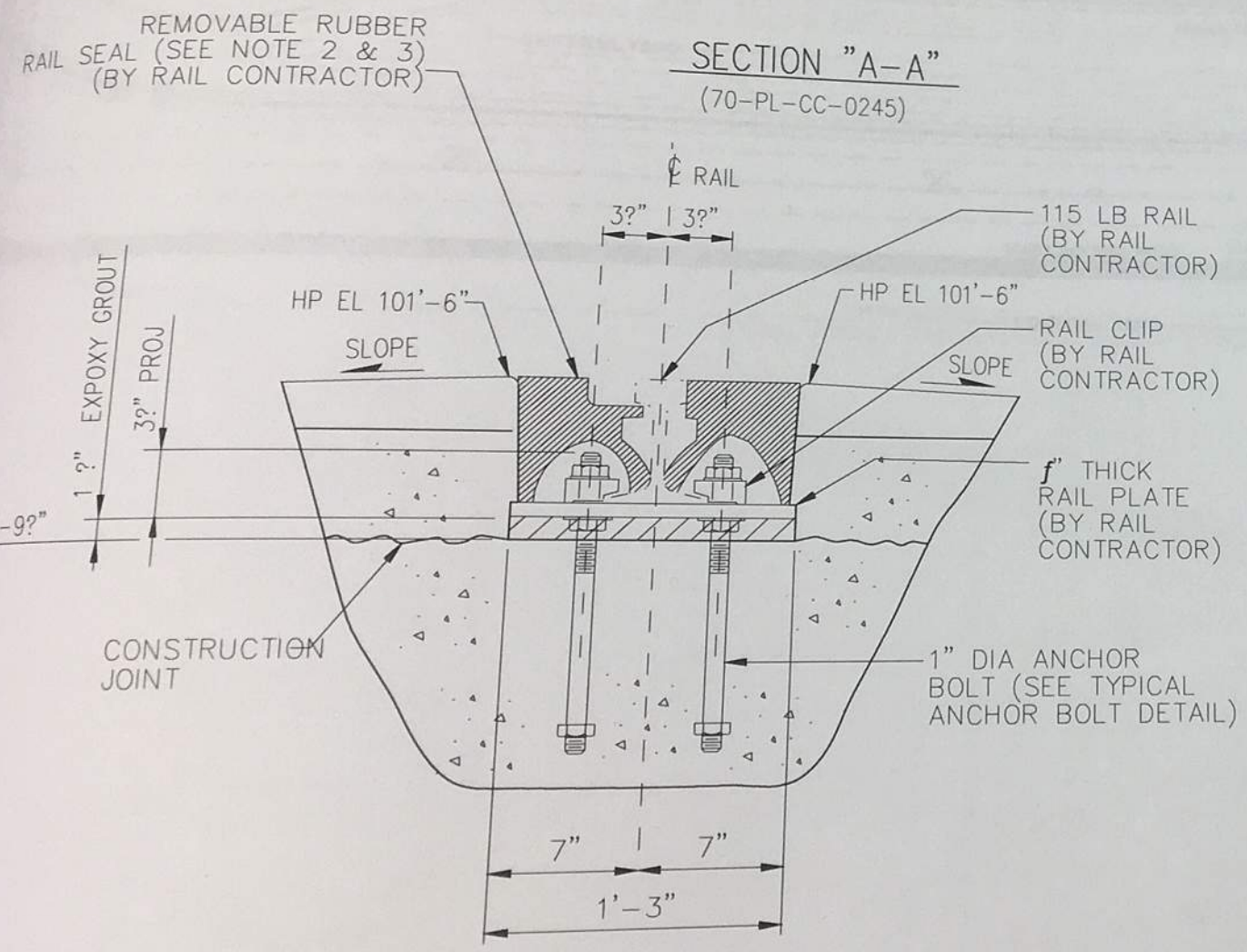
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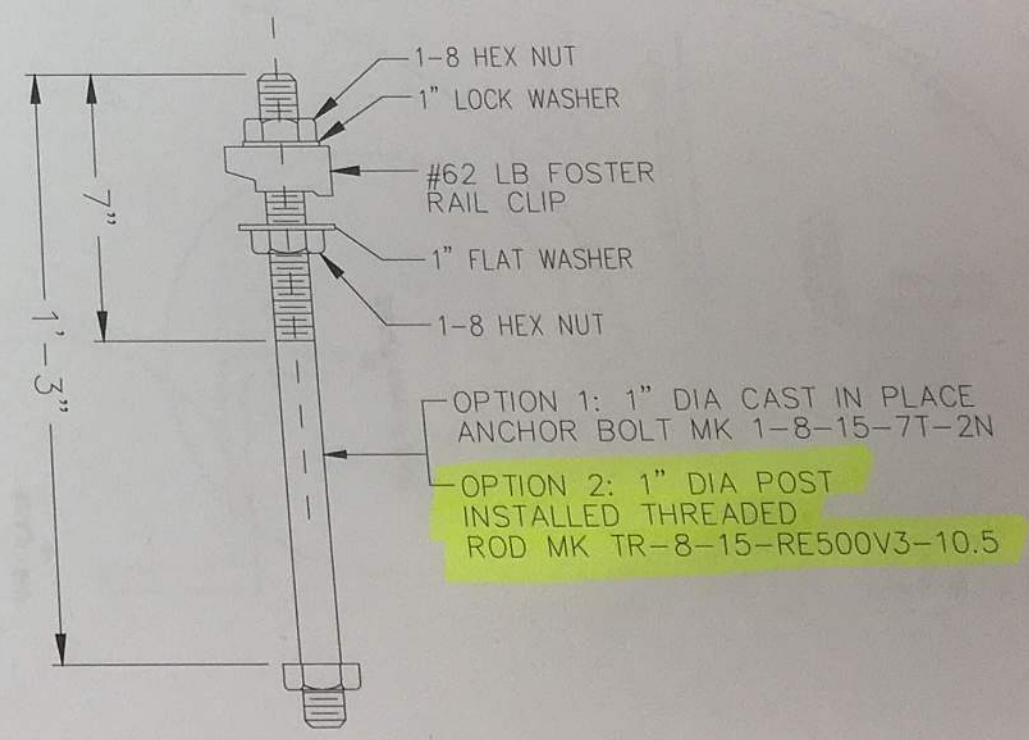




**RAIL PLATE TYPE "1"**  
SCALE: NTS  
(DWG 70-PL-CC-0245 & 0246)



**DETAIL "1"**  
(TYPICAL RAIL, RAIL CLIP & RAIL PLATE INSTALLATION DETAIL)  
(SCALE: 1" = 1'-0")



**TYPICAL ANCHOR BOLT & HARDWARE DETAIL**  
(NTS)