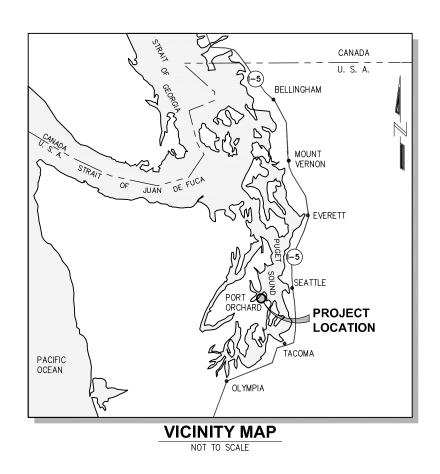
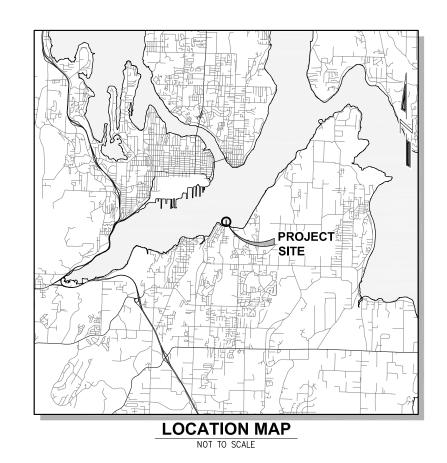
KITSAP TRANSIT **ANNAPOLIS FERRY DOCK FENDERS**

ISSUED FOR BID

JULY 2021





ANNAPOLIS DOCK

PORTIONS OF GOVERNMENT LOT 5 AND THE NE QUARTER OF SECTION 25, TOWNSHIP 24 N, RANGE 01 E, W.M. IN THE COUNTY OF KITSAP, WASHINGTON.

LONGITUDE 122° 37' 19"

TIDAL WATER LEVELS	6 (FT)
DATUM	MLLW
MEAN HIGHER HIGH WATER (MHHW)	+11.74
MEAN HIGH WATER (MHW)	+10.86
MEAN LOW WATER (MLW)	+2.84
MEAN LOWER LOW WATER (MLLW)	0.00

NOAA TIDAL STATION 9445958, BREMERTON, WA

SHEET INDEX

G1.01 COVER AND SHEET INDEX

G1.02 GENERAL NOTES
G1.03 EXISTING SITE PLAN AND ELEVATION

D1.01 DEMOLITION PLAN

S1.01 NEW FENDERS AND RAMPS LAYOUT PLAN

S1.02 FENDER PROFILE AND ELEVATION S1.03 FENDER SECTIONS AND DETAILS

S1.04 FENDER DETAILS

S1.05 FLOATATION TUB ADJUSTMENT S2.01 NEW BOARDING SYSTEM LAYOUT PLAN

S2.02 NEW BOARDING SYSTEM LAYOUT ELEVATION

S2.03 BOARDING RAMP PLAN AND ELEVATION S2.04 BOARDING RAMP HINGE DETAILS

S2.05 ADJUSTABLE PLATFORM DETAILS

S2.06 ACCESS RAMP DETAILS S2.07 ACCESS RAMP DETAILS

S2.08 PIANO HINGE DETAILS

S4.01 LIGHT POLE RELOCATION

TITLE:

DESIGNED BY

DRAWN BY:

DIGITAL SIGNATURE:

THIS DRAWING SET WAS CREATED AS AN ELECTRONIC DOCUMENT. IF THE ELECTRONIC DOCUMENT DOES NOT INCLUDE A VERIFIABLE DIGITAL SIGNATURE IN THE BOX ABOVE, PLEASE CONTACT THE ENGINEER OF RECORD FOR THE ORIGINAL CERTIFIED ELECTRONIC DOCUMENT

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KITSAP TRANSIT ANNAPOLIS FERRY DOCK FENDERS

COVER AND SHEET INDEX

G1.01

GENERAL NOTES

The following General Notes are applicable and shall be considered part of this specification.

APPLICABLE CODES AND STANDARDS

- Unified Facilities Criteria 4-159-03 Design: Moorings.
 Unified Facilities Criteria 4-152-07N Design: Small Craft Berthing Facilities.
 Unified Facilities Criteria 4-152-01 Design: Piers and Wharves.
 International Code Council (ICC) "International Building Code", 2015 Edition.
 American Association of State Highway, Transportation Officials (AASHTO), LRFD Bridge Design Specifications, 4th Edition, with 2008 Interim Revisions.

- Edition, with 2008 Interim Revisions.
 6. American Society of Civil Engineers "Minimum Design Loads for Buildings and Other Structures" (ASCE 7-10)
 7. American Society for Testing and Materials (ASTM) Standards, current edition.
 8. American Institute of Steel Construction (AISC), "Manual of Steel Construction, Thirteenth Edition".
 9. American Welding Society (AWS), "D1.1 Structural Welding Code Steel, current edition".
 10. American Bureau of Shipping (ABS), "Rules for Building and Classing Offshore Installations".

The information contained in these General Notes is in addition to the details and notes provided on the individual plan sheets. In case of conflict between notation in the above references, these General Notes, and notes and details on individual sheets. the following priority shall be followed:

- 1. All project permit requirements.
- 2. Notes on individual plan sheets.
- 3. Details and callouts on individual plan sheets.
- 4. These General Notes.
- 5. Local Codes.
- 6. The specifications and standards listed above in order of appearance

DESIGN CRITERIA

DEAD LOAD

Weight of all materials of construction

<u>LIVE LOAD</u> 100 PSF Uniform all walking surfaces

500 LB Point Load

GROUND SNOW LOAD

Exposure Factor: C

WIND LOAD

100 MPH, Exposure C (3 Sec Gusts)

WAVE LOAD

Significant Wave Height, Significant Wave Period, $H_S = 4.0 FT$ $T_S = 3.7 SEC$ $H_{10}^{-} = 5.1 \text{ FT}$ Design Wave Height, Vessel Wake Wave Height, $H_{W} = 2.0 \text{ FT}$ Vessel Wake Wave Period, $T_{W} = 3.7$ SEC

CURRENT LOAD Current Velocity:

 $V_C = 0.1$ Knots Parallel to bathymetry contours.

DESIGN VESSELS

Waterman	Rich Passage/ Reliant
70'-0"	78'-0"
26'-0"	28'-0"
130,000 lbs	125,000 lbs
4'-7"	4'-4"
4'-1"	3'-10"
4'-3"	7'-7"
16'-0"	16'-0"
1 ft/s	1 ft/s
	70'-0" 26'-0" 130,000 lbs 4'-7" 4'-1" 4'-3" 16'-0"

CATHODIC PROTECTION

athodic protection provided by galvanization. After 10 years, Owner shall inspect and provide anodes, if necessary.

MATERIALS AND CONSTRUCTION

<u>STRUCTURAL STEEL</u>
Wide Flange Shapes shall conform to A992 Grade 50. Plate shall conform to A572 Grade 50, unless otherwise noted.

Flathar shall conform to ASTM A36

Rectangular and Square HSS shall conform to ASTM A500 Grade B/C. Pipe sections with 12-inches O.D. or less shall conform to ASTM A53 Grade B, Type E or S. Angles and Channels shall conform to ASTM A572 Grade 50 at a minimum

All steel shall be hot-dipped galvanized per ASTM A123 or A153 after fabrication unless otherwise noted.

SPRAY METALIZING

Spray metalizing may be used as an alternative to hot—dip galvanizing.

COATING REPAIR

Damaged galvanized coatings shall be repaired by using the hot-stick method, followed by a brush applied, two coats of Zinc rich paint, ZRC or equal (cold galvanize repair). Total thickness of repair coating shall be 12 mils.

All connecting bolts for steel to steel shall be ASTM A325 with threads excluded from the shear plane. All steel to concrete, anchor bolts, and threaded rods shall be ASTM F1554. Grade 105, or as specified on the drawings. All other bolts shall be ASTM ASOT with heavy hex nuts or as otherwise shown on the drawings. All bolts shall be galvanized, unless otherwise noted. All stainless steel hardware shall be Grade 316. Threaded studs shall be Nelson CPL Partially Threaded Studs or engineer—approved equal. Studs shall be CJP welded to the base metal before coating with weld profile ground flush. Washers shall be installed at each end of all hardware.

Thru-rods and tie-rods shall be A193 B8M Class 2, 316 stainless with corresponding nuts and washers. Thin plastic washers shall be provided between stainless washers and advanized surfaces.

All epoxy anchors shall be DEWALT Pure 100+ adhesive, or approved equal, and installed per manufacturer's recommendations, unless otherwise noted.

Rubber material shall be new neoprene or natural rubber with a minimum tensile strength of 2,300 psi (26 MPa), and a Shore A durometer hardness of 20 ±5. Rubber shall be UV resistant and suitable for the marine environment. Color shall SUPPLEMENTAL INFORMATION

STRUCTURAL ALUMINUM

Aluminum hollow structural sections and angles shall conform to 6061—T6. Aluminum plate and flat bar shall conform to 5086-T116. Aluminum pipe shall conform to 6063-T6.

Deep Duragrid R-6200 pedestrian deck grating with 60% open space for light transmission shall be ADA compliant. The top shall have an integrally applied non-skid, slip resistant surface by Strongwell or approved substitute.

The color shall be light gray to match existing grating on Annapolis Ferry Dock.

NON-SLIP SURFACE

All non-slip/non-skid walking surfaces noted shall be thermal sprayed to obtain a slip-resistant surface. Prepare surface and apply per manufacturer's recommendations. Coating thickness shall be 10 mils minimum. Seal and top coat per manufacturer's recommendations. Submit samples of surface texture for approval to Engineer.

FLOATATION POLYTUBS
Floatation tubs (Polytubs) used to provide required supplemental floatation shall be Premier Materials Technology (Manufactured by ACE Roto-Mold) (800-262-2275) or Engineer-approved equivalent. Buy America requirements apply.

Polytub encasement shall provide 100% protection to all surfaces of the flotation material and allow zero water to enter the unit and shall be 100% virgin grade linear low density polyethylene, black in color, with a nominal wall thickness of 0.150 inches and a minimum wall thickness of 0.125 inches. The encasement shall meet the ASTM 1998D-04 Falling Dart Test to assure the material quality and molding process. The encasement shall have the following minimum characteristics:

1. Density per ASTM D-1505: 0.937 g/cc 2. Tensile strength per ASTM D-638: 2750 psi 3. Flexural modulus per ASTM D-790: 109,000 psi

Polytub floatation material shall be 100% virgin grade polystyrene, expanded in-place inside the encasement, with a density of 0.8 to 0.937 g/cc based on ASTM D-1505. Floatation material shall not sink or contaminate the water if the encasement is punctured. Material shall meet the Seven Day Hunt Absorption Test of less than 3.0 lbs per cubic foot water absorption in seven days per the test requirements.

Units shall be secured to the concrete float in a manner to hold them in place without being dislodged by the wind and wave conditions stated in the Design Criteria. Each unit shall have a minimum of six molded mounting slots with 1.50—inch thick mounting flanges available for necessary mounting hardware.

The Polytub manufacturer shall furnish test results for each size furnished showing wall thickness, water absorption, falling dart test, and certified buoyancy rating. The manufacturer shall provide a minimum of 15-year warranty with the first 10 years non-prorated.

SPECIAL INSPECTION SCHEDULE

ITEM	CI	ΡI	REFERENCE STANDARD	IBC 2015 REFERENCE
GENERAL:		_	•	•
PREFABRICATED ITEMS		Х		1704.2
POST-INSTALLED ANCHORS:				
GROUTED ANCHORS	Х			1910.1
ADHESIVE ANCHORS	Х			1910.1
MECHANICAL ANCHORS	Х			1910.1
STEEL:				
HIGH-STRENGTH BOLTS, NUTS, AND WASHER MATERIALS		Х	ASTM AS NOTED, AISC 360 A3.3	
BEARING TYPE CONNECTIONS		Х	AISC 360 M2.5	1905.2
STRUCTURAL STEEL MATERIALS		Х	ASTM A36, A568, AS NOTED	
WELD FILLER MATERIALS		Х	AISC 360 A3.5	
CP & PP GROOVE WELDS	Х		AWS D1.1	1705.2.2.1
MULTI-PASS FILLET WELDS	Х		AWS D1.1	1705.2.2.1
SINGLE PASS FILLET WELDS < 5/16"		Х	AWS D1.1	1705.2.2.1
SINGLE PASS FILLET WELDS > 5/16"	Х		AWS D1.1	1705.2.2.1

- INSPECTION SCHEDULE NOTES
 Items marked with an "X" indicate whether the inspection is continuous or periodic as defined in the IBC section 1702.1. For items not marked with an "X" comply with IBC chapter 17.
- 2. Cl = Continuous Inspection
- 3. PI = Periodic Inspection
- Testing and inspection reports shall be submitted to the Engineer.
 See Tables 1704.5.1 and 1704.5.3 for level 1 and level 2 special inspections, respectively.
- 6. Special inspector shall be paid by Contractor.

The following is a partial list of required submittals for this project. The Engineer may require additional submittals.

- 1. Material certifications for all steel and aluminum structural members and fasteners. Material certifications shall be submitted for Engineer review prior to fabrication. Contractor is responsible for assuring all material certifications conform to the specifications.
- Coating certification for all steel.
- Steel coating repair methods.
- AWS Weld Procedure Specifications for all welding.
 AWS Welder Qualification records for welders working on this project.
- 6. Fabrication shop drawings.
- Fender shop drawings, rubber material certifications.
- 8. UHMW (Ultra-High-Molecular-Weight) Polyethylene: Submit Manufacturer's published literature for specific products along with fabrication shop drawings for each type of UHMW piece.
- Grating shop drawings, manufacturer's specifications, and sample
- 10. Floatation tub shop drawings and manufacturer's specifications
- 11. Quality control plan and list of contacts.

AS-BUILT RECORDS

The Contractor shall maintain an updated set of red-line as-built drawings at the project site. As-built drawings shall be submitted upon request to the Engineer at anytime throughout the project and upon substantial completion

KITSAP TRANSIT **ANNAPOLIS FERRY DOCK FENDERS**

GENERAL NOTES

204049 G1.02

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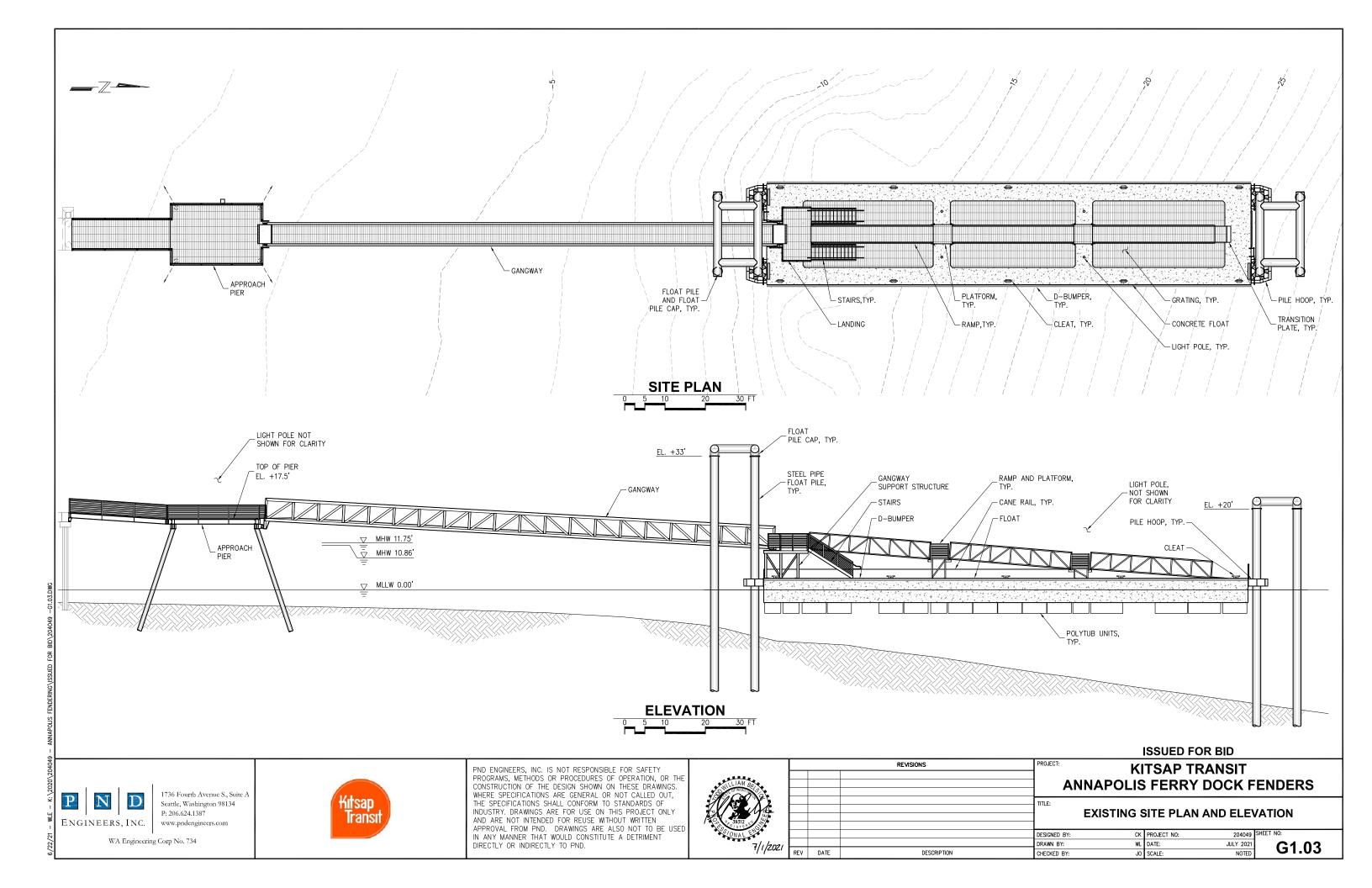
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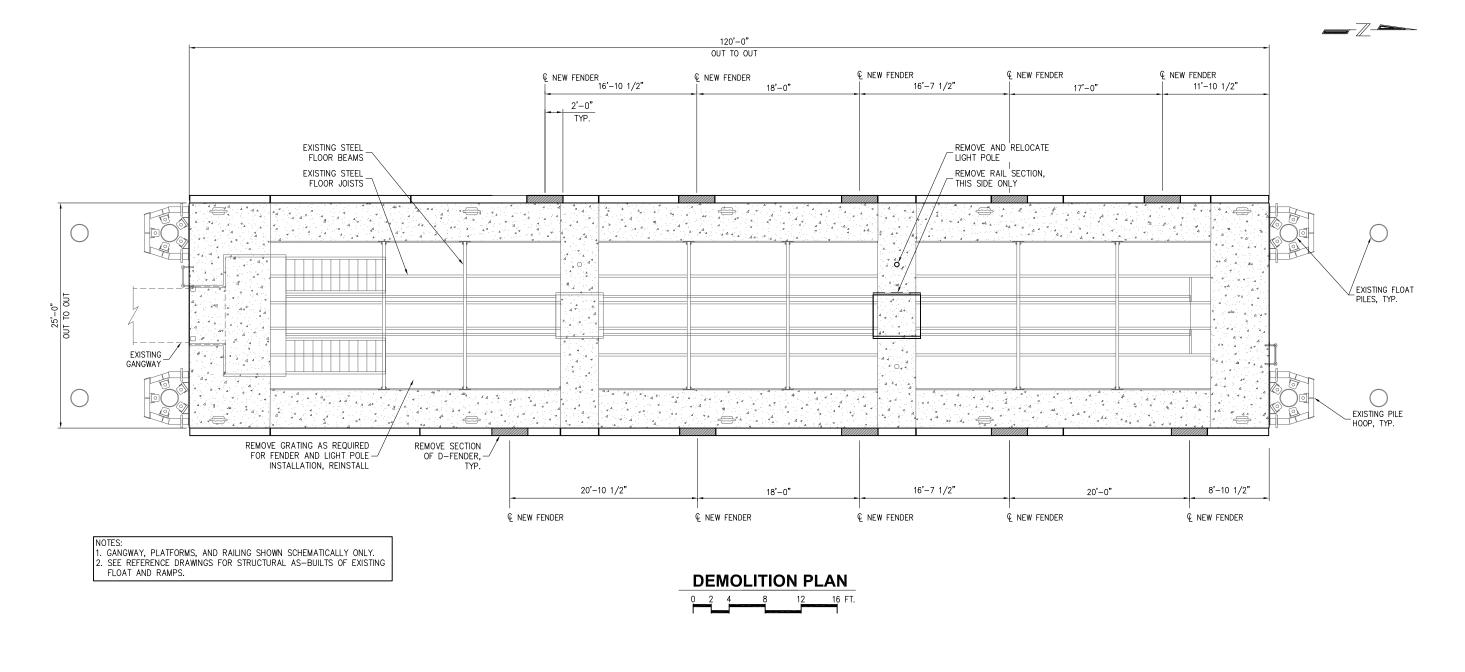
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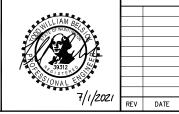




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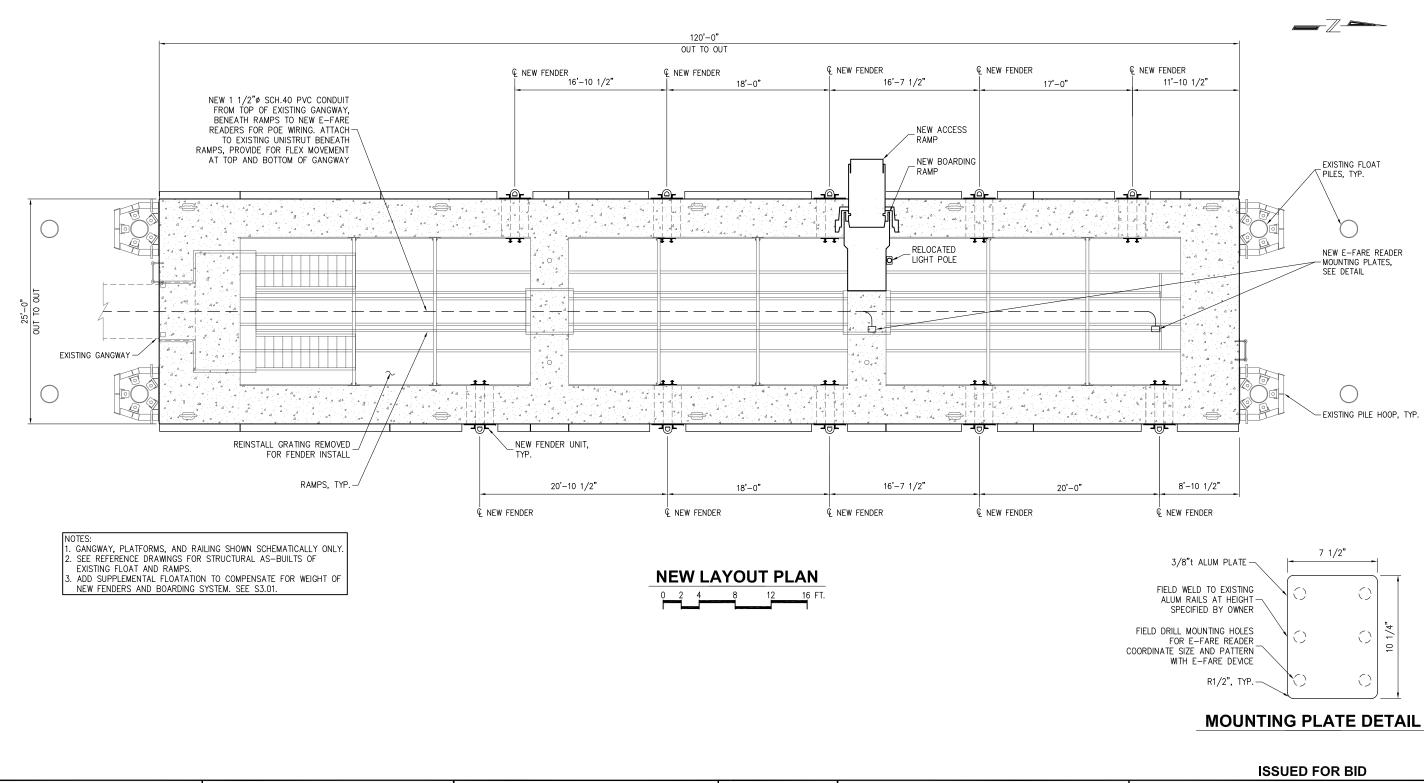
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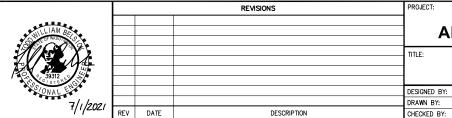


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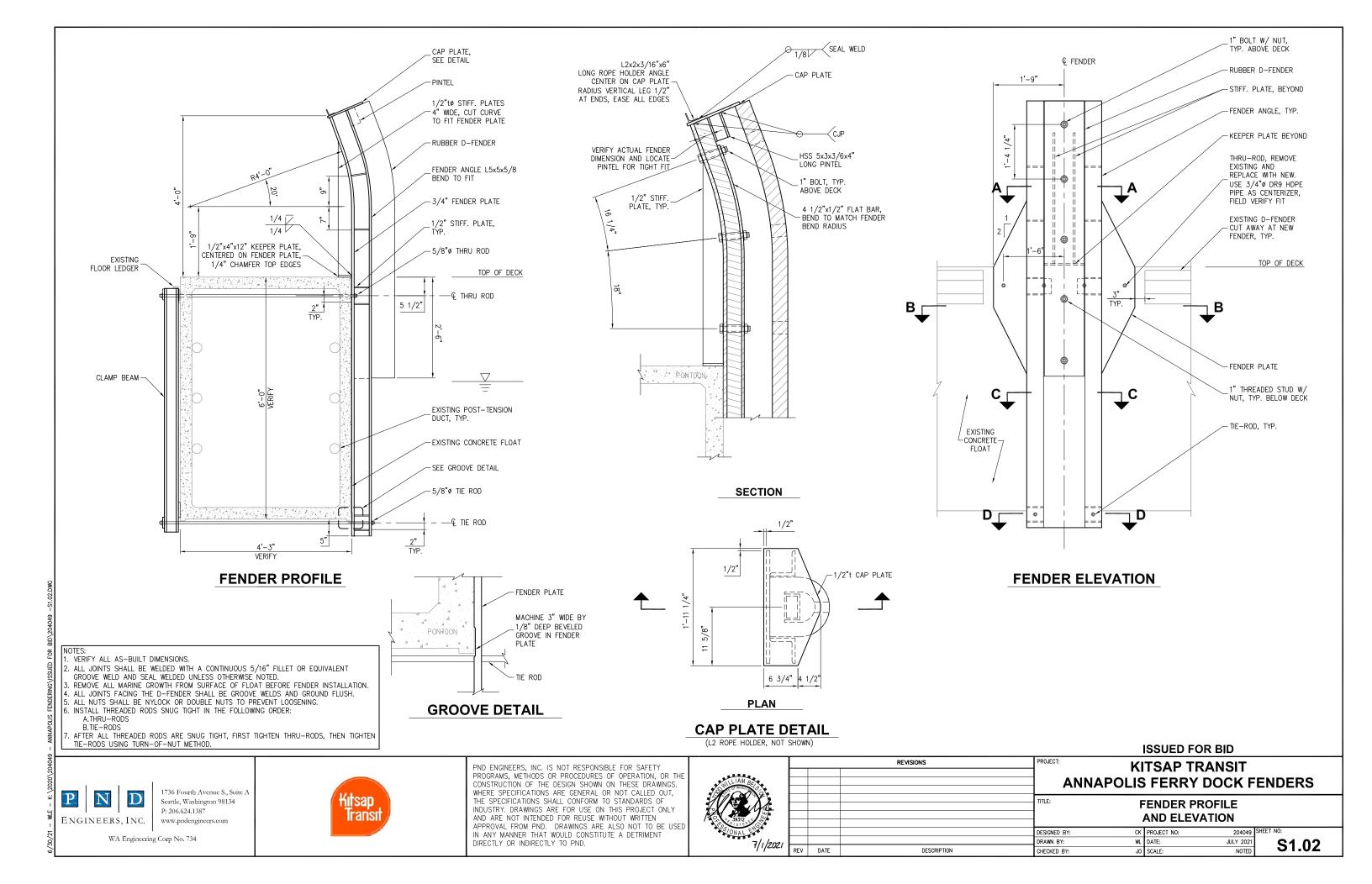
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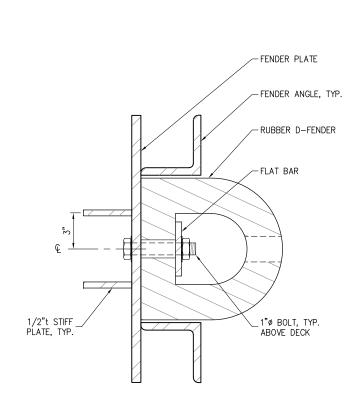


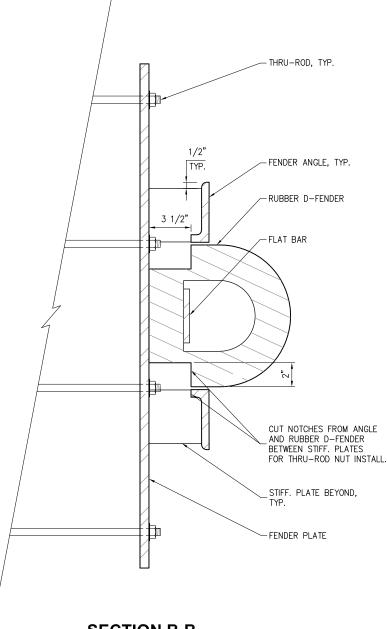
KITSAP TRANSIT **ANNAPOLIS FERRY DOCK FENDERS NEW FENDERS AND RAMPS** LAYOUT PLAN

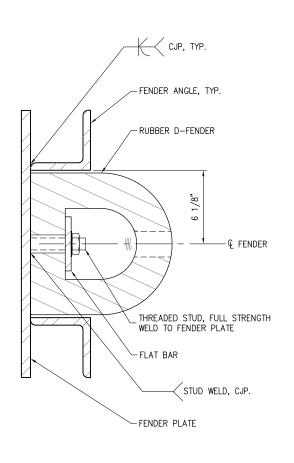
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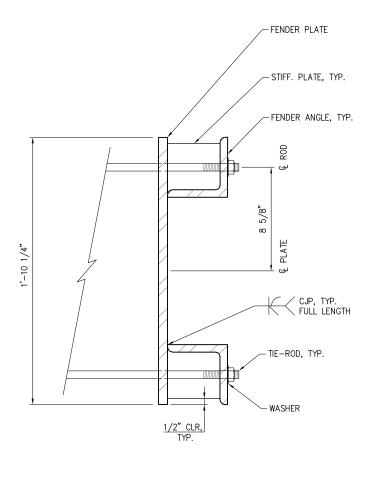
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SECTION A-A

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SECTION B-B PONTOON NOT SHOWN FOR CLARITY

SECTION C-C PONTOON NOT SHOWN FOR CLARITY

SECTION D-D PONTOON NOT SHOWN FOR CLARITY

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- NOTES:
 1. VERIFY ALL AS-BUILT DIMENSIONS. ALL JOINTS SHALL BE WELDED WITH A CONTINUOUS 5/16" FILLET OR EQUIVALENT GROOVE WELD AND SEAL WELDED UNLESS OTHERWISE NOTED.
- 2. REMOVE ALL MARINE GROWTH FROM SURFACE OF FLOAT BEFORE FENDER INSTALLATION.
- 3. ALL JOINTS FACING THE D-FENDER SHALL BE GROOVE WELDS AND GROUND FLUSH.
 4. SLOPE ALL STIFFENER PLATES 1% TO FACILITATE DRAINAGE.



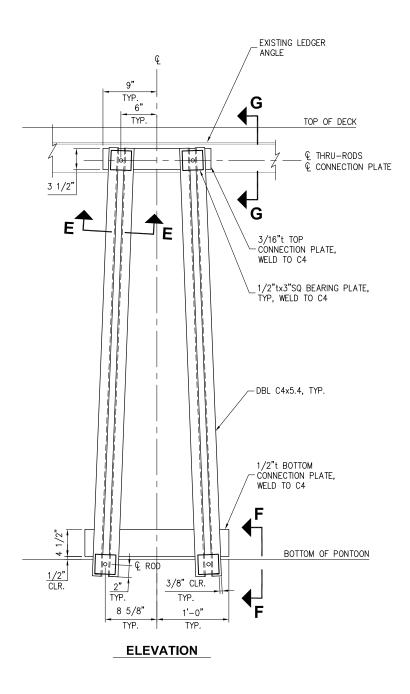
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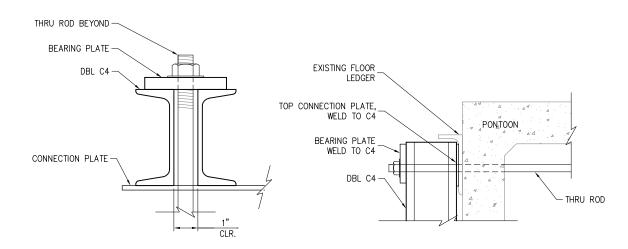


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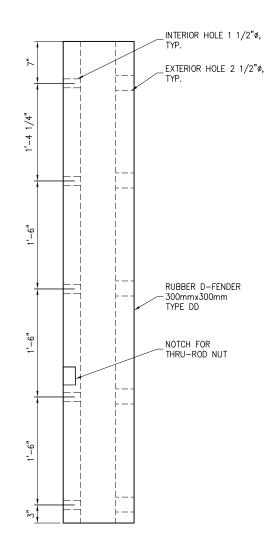


SECTION G-G

ВОТТОМ CONNECTION PLATE WELD TO C4 DBL C4-BEARING PLATE PONTOON WELD TO C4 BOTTOM OF PONTOON 1/2" VERIFY └─ TIE-ROD

SECTION E-E

SECTION F-F



- VERIFY ALL AS-BUILT DIMENSIONS. ALL JOINTS SHALL BE WELDED WITH A CONTINUOUS 5/16" FILLET OR EQUIVALENT GROOVE WELD AND SEAL WELDED UNLESS
- OTHERWISE NOTED.

 2. REMOVE ALL MARINE GROWTH FROM SURFACE OF FLOAT BEFORE FENDER AND CLAMP BEAM INSTALLATION.

 3. ALL JOINTS FACING THE D-FENDER SHALL BE GROOVE
- COORDINATE ALL BOLT HOLES WITH OTHER FENDER COMPONENTS AND EXISTING STRUCTURES.

CLAMP BEAM

RUBBER D-FENDER

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SIDE PROFILE VIEW

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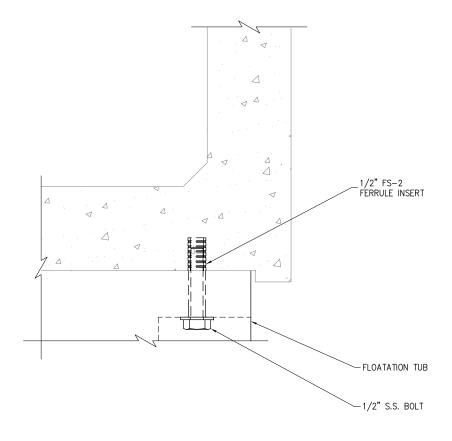


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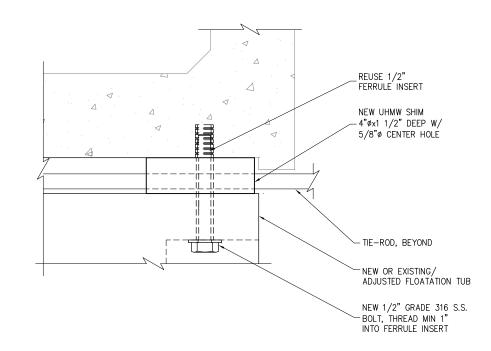
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OTHERWISE NOTED.

WELDS AND GROUND FLUSH.



EXISTING TUB ATTACHMENT



ADJUSTED TUB ATTACHMENT

- NOTES:
 1. MODIFIED TUB ATTACHMENT APPLIED TO ALL TUBS WHERE NEW FENDERS ARE INSTALLED.
 2. OMIT NEW UHMW SHIM AT LOCATIONS WHERE TIE-RODS CONFLICT WITH ITS INSTALLATION.

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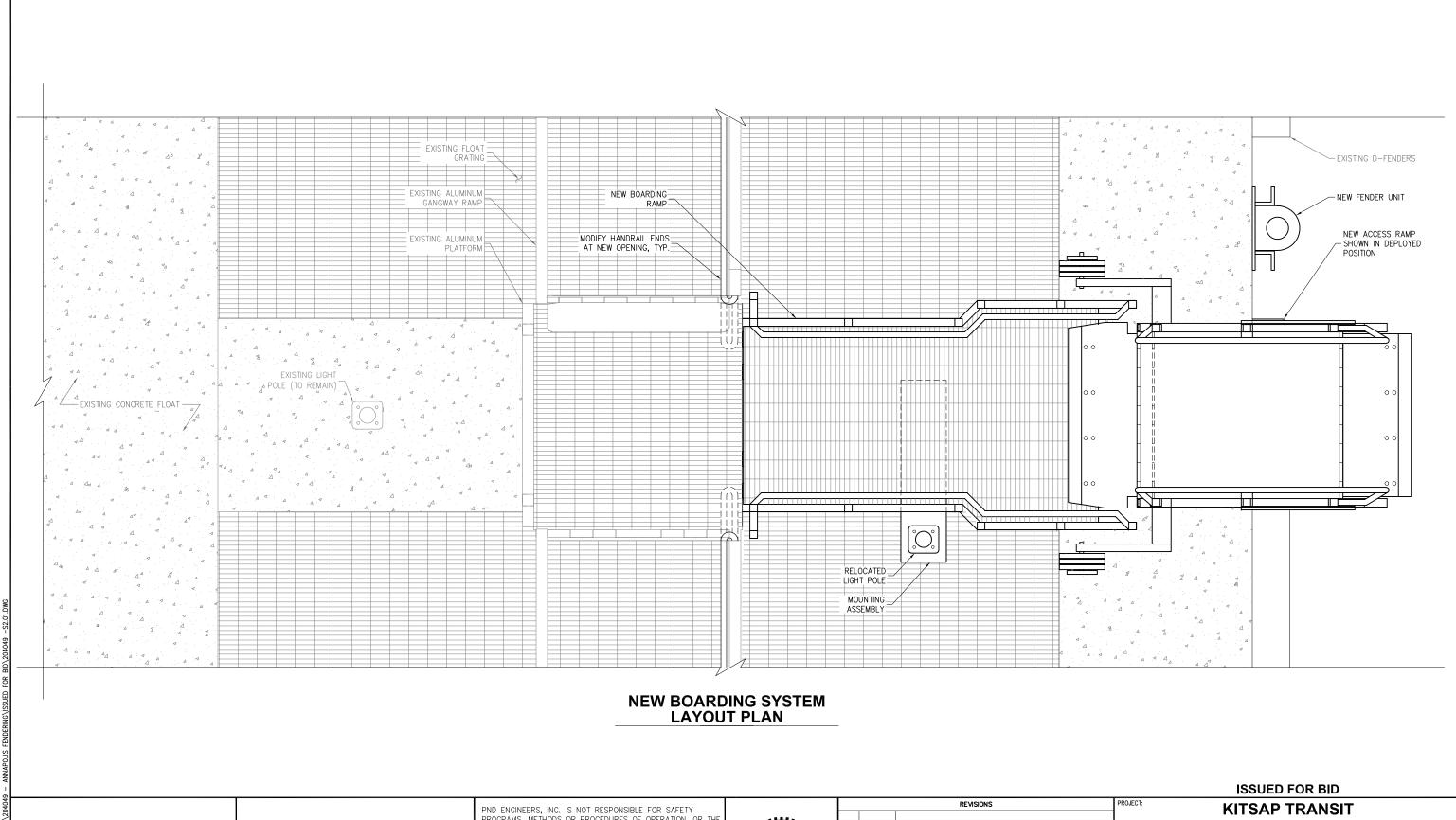


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ANNAPOLIS FERRY DOCK FENDERS

NEW BOARDING SYSTEM LAYOUT PLAN

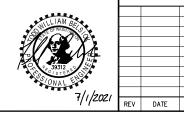
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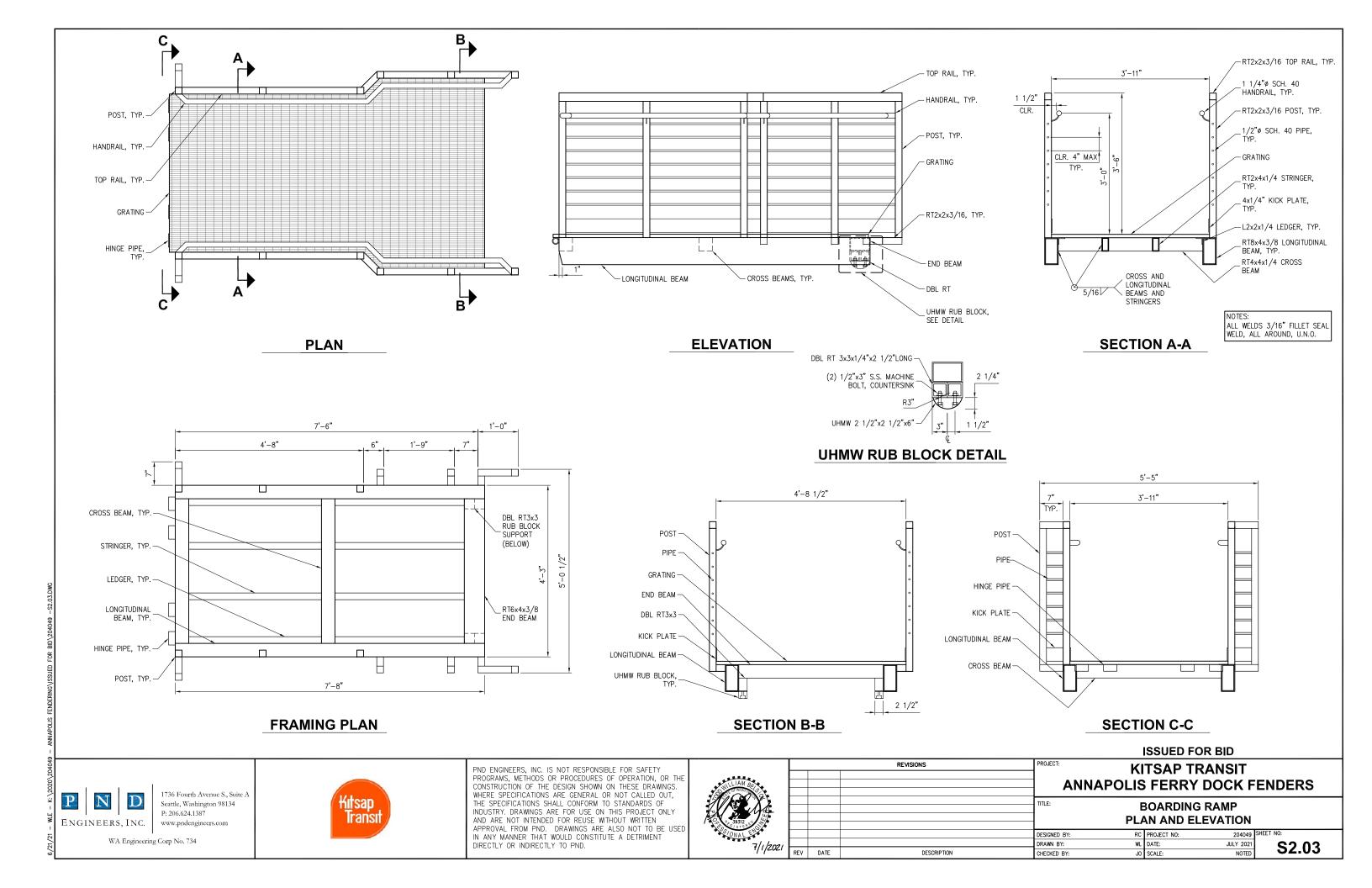
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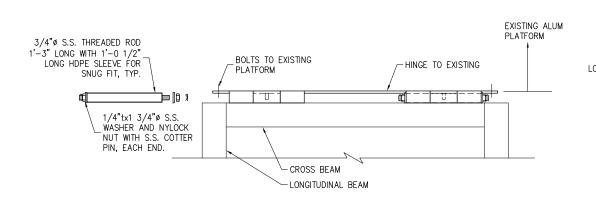
NEW BOARDING SYSTEM LAYOUT ELEVATION

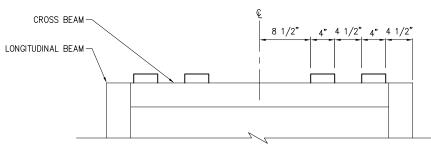
RC PROJECT NO: 204049 CHECKED BY: JO SCALE:

WA Engineering Corp No. 734

S2.02

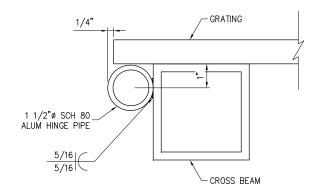






PLAN -

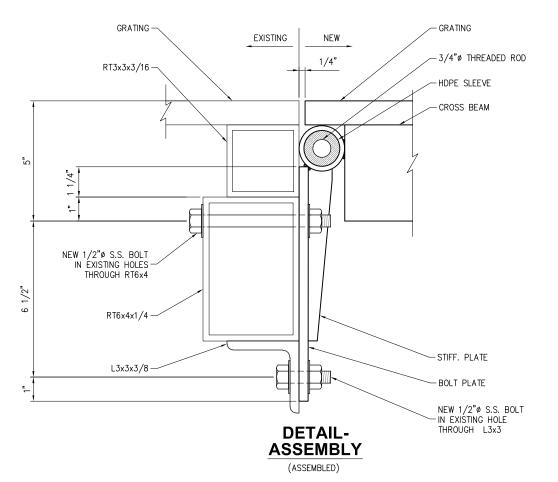
BOARDING RAMP HINGE

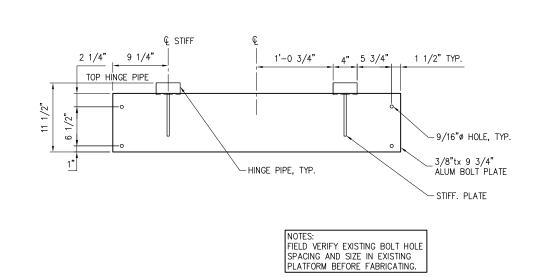


DETAIL -**BOARDING RAMP HINGE**

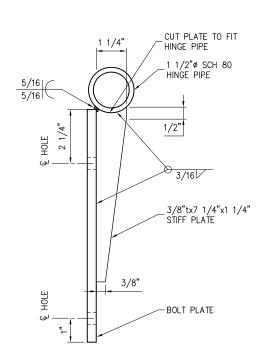
PLAN - ASSEMBLY

- 1. GRATING NOT SHOWN
 2. EXISTING PLATFORM NOT SHOWN





ELEVATION -HINGE TO EXISTING



DETAIL -**HINGE TO EXISTING**

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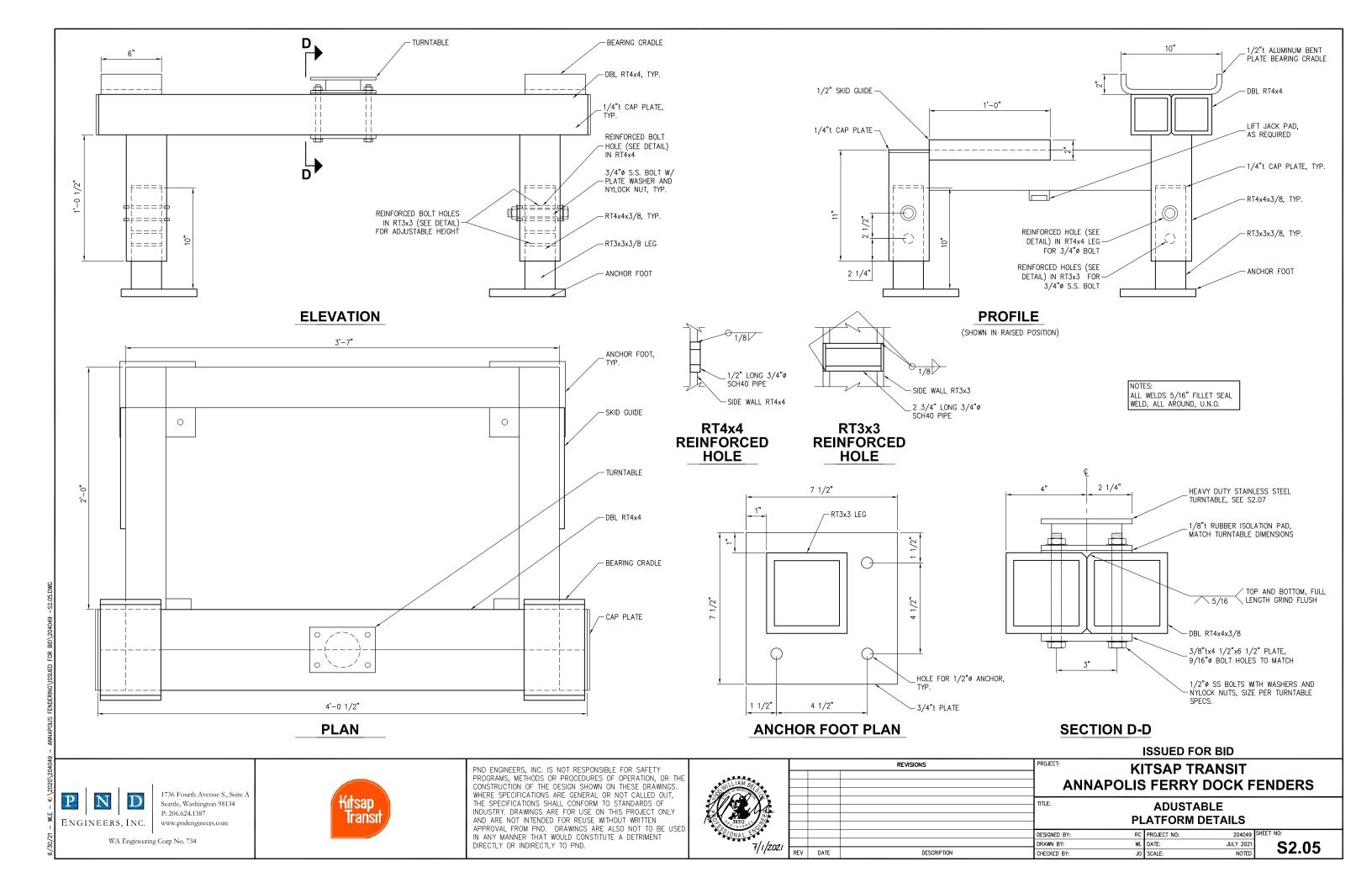
			REVISIONS	PROJECT:
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LA L				TITLE:
				DESIGNED BY:
7/1/2021				DRAWN BY:
1/1/2021	REV	DATE	DESCRIPTION	CHECKED BY:

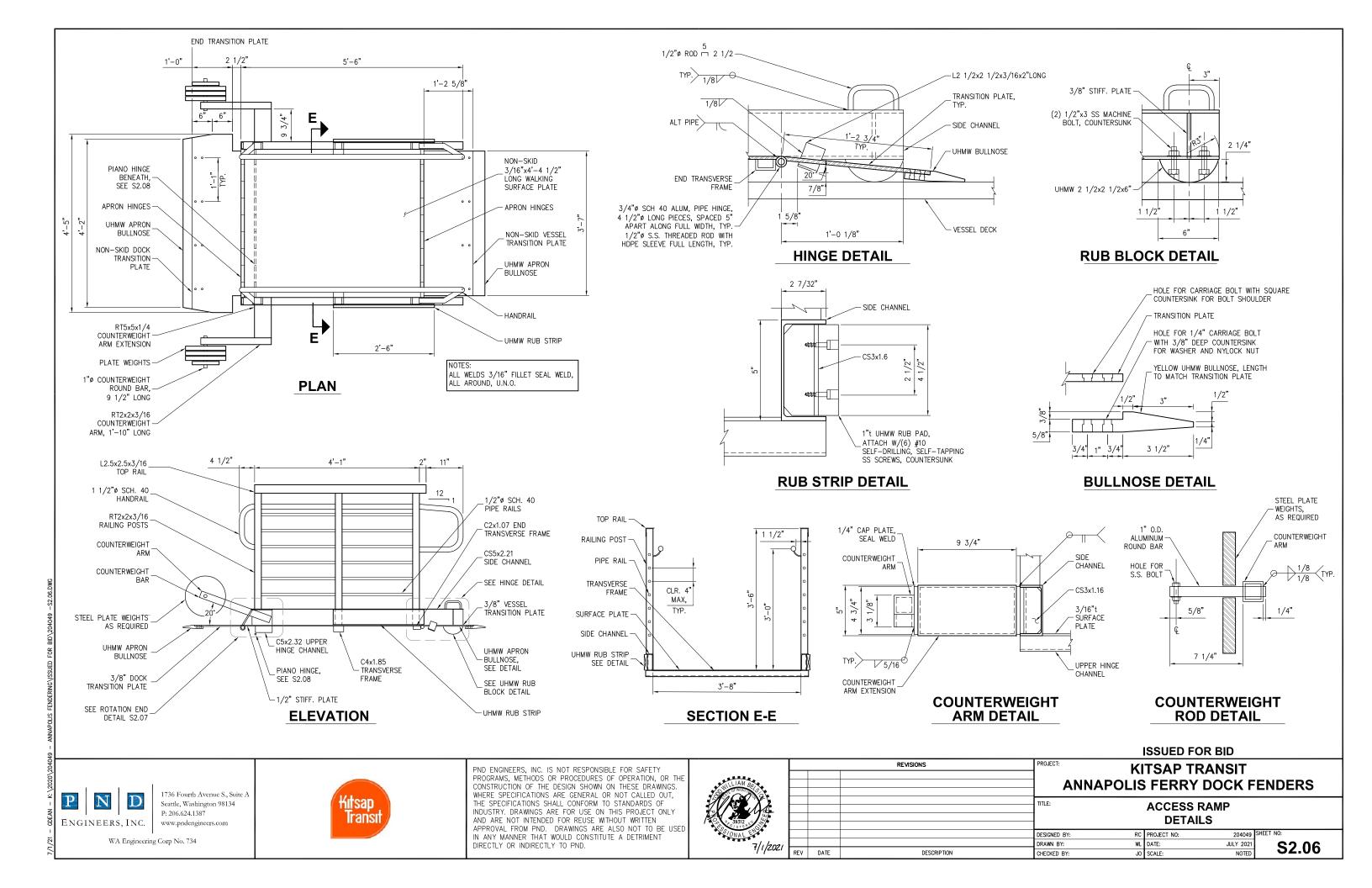
KITSAP TRANSIT ANNAPOLIS FERRY DOCK FENDERS

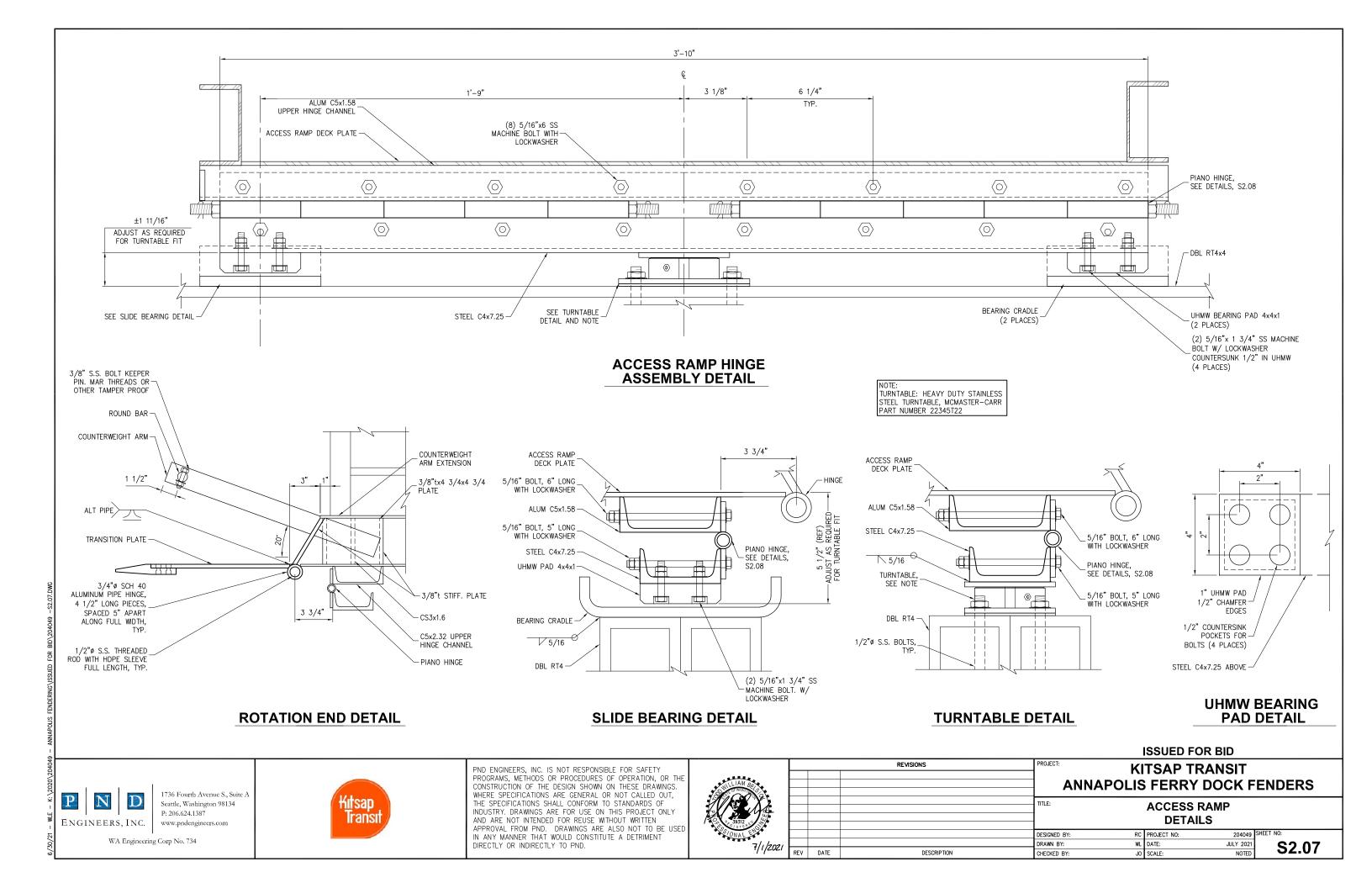
BOARDING RAMP HINGE DETAILS

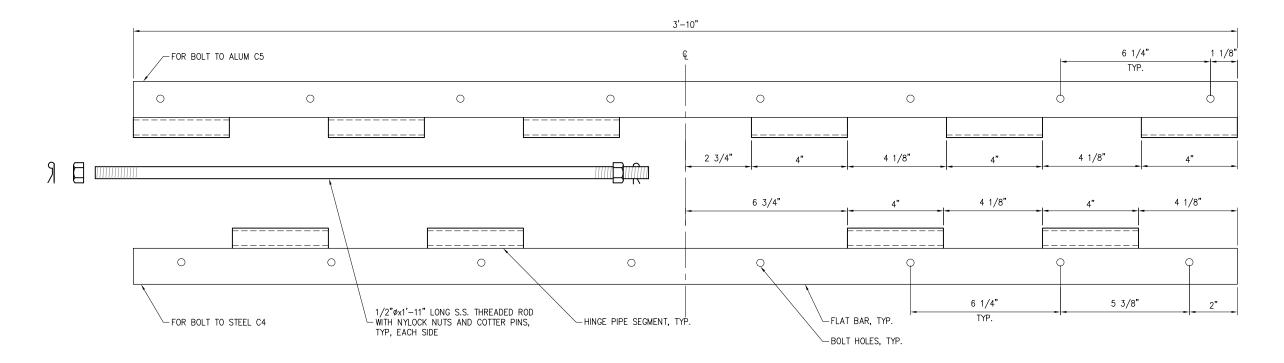
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S2.04

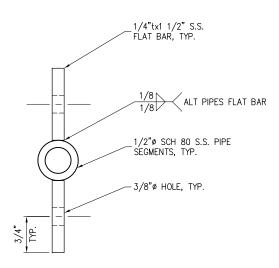








PIANO HINGE ASSEMBLY



PIANO HINGE SECTION



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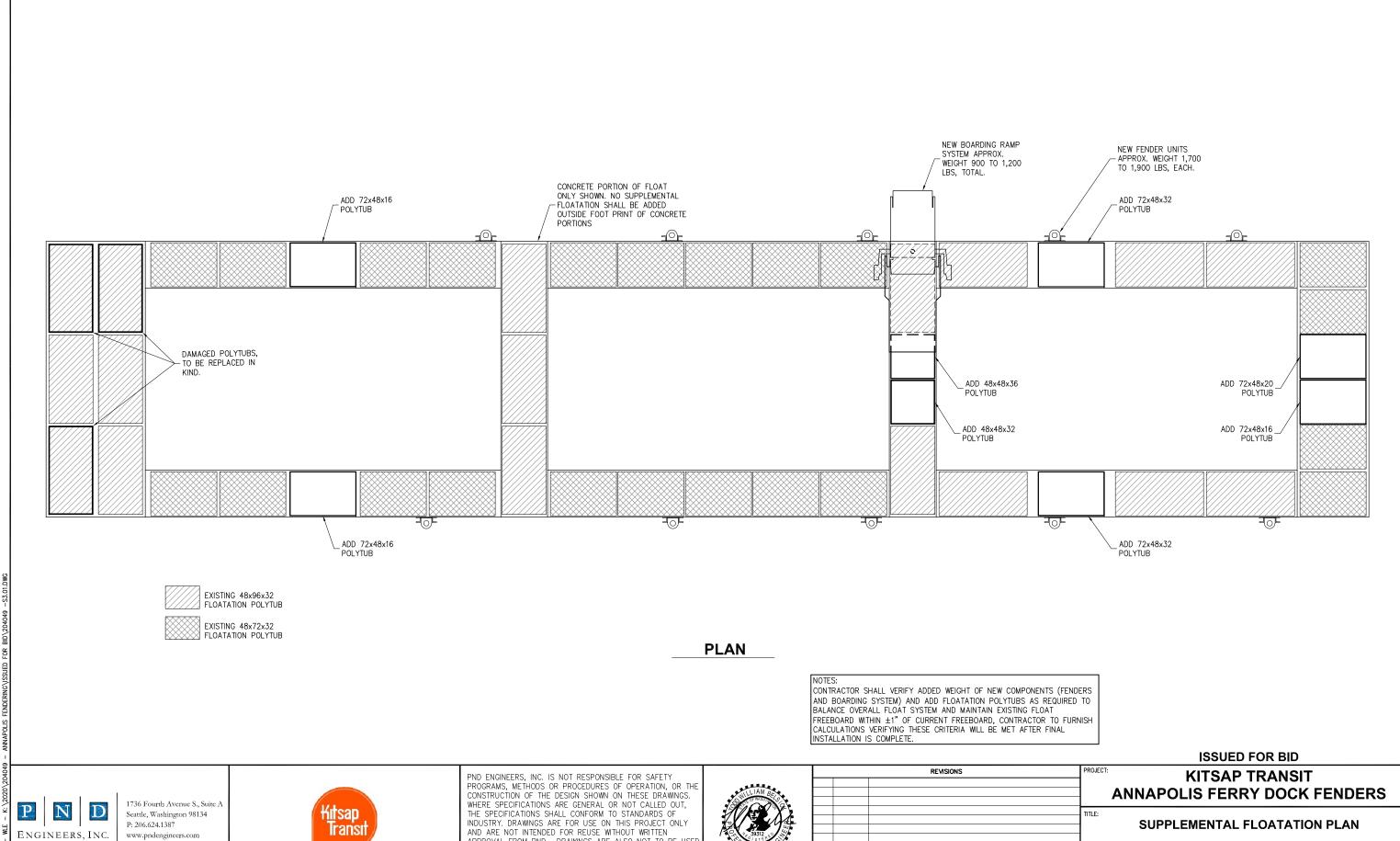
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			REVISIONS	PROJECT:	KI	TSAP TR	ANSIT	
					ANNAPOLIS			ENDERS
-				TITLE:		PIANO HII DETAIL	.S	
				DESIGNED E	BY: RC	PROJECT NO:	204049	SHEET NO:
021				DRAWN BY:	WL	DATE:	JULY 2021	S2.08
UEI	REV	DATE	DESCRIPTION	CHECKED B	Y: J0	SCALE:	NOTED	32.00

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7/1/2021

DESIGNED BY:

CHECKED BY:

JULY 2021

JO SCALE:

S3.01

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