

CITY OF GLOUCESTER
OFFICE OF THE PURCHASING AGENT

Webpage: www.gloucester-ma.gov Office: purchasing@gloucester-ma.gov

Document No.		Addenda No.	1	Date Issued	6/5/2023
Document Title	Magnolia Pier Improvement Project Contract No. 23145				
No. of Pages	15 including attachments				

TO: **All Interested Parties**
 FROM: **Stacey Capone**
 DATE: **6/5/2023**

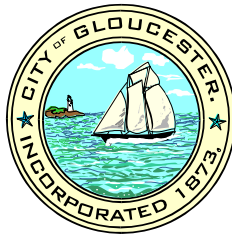
Reason(s) for Addendum:

- 1. RE-ISSUANCE OF TECHNICAL SPECIFICATION SECTION 02606: Sheets 02606-1 through 02606-5 (5 pages) attached.**
- 2. ADD: Turbidity boom is required around the proposed timber piles for duration of pile driving.**

This addendum is being issued to respond to the questions asked via email.

Question #1	Please specify the required lengths of the Southern Yellow Pine Pilings.
Response	It is the Contractor's responsibility to provide piles of sufficient length to meet the required tip elevation of -35 NAVD88. The finished lengths of the two (2) plumb piles are approximately 59.5 feet. The two (2) 1H:4V batter piles will have a finished length of 49.7 feet. The two (2) 1H:6V batter piles will have a finished length of 48.9 feet.
Question #2	Please specify the expected depth below the mud line the pilings are expected to be driven to.
Response	The Contractor shall install the piles to tip elevation of -35 NAVD88, approximately 25 feet below the mudline.
Question #3	If there is no specific depth requirement for driven piles, how will driven piles be determined to have been driven to an acceptable depth?
Response	The piles shall be driven to Elevation -35 NAVD88.

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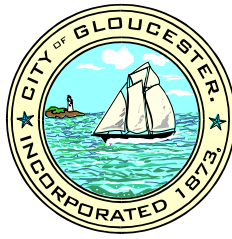
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Question #4	Please provide more details regarding construction of the 24'X12' wooden float, specifically with respect to the profile drawing provided on plan sheet 5 of 5
Response	The float drawings on Sheet 5 of 5 are provided for reference only. The contractor shall submit shop drawings, materials, and supporting calculations in accordance with Specification 06135 Section 1.4 and related sections.
Question #5	Will an impact hammer be required after the use of a vibratory hammer?
Response	Means and methods of construction are the responsibility of the Contractor. The Contractor shall provide equipment capable of driving the piles to the required tip elevation, -35 NAVD88.
Question #6	Would appropriately size helical anchors be acceptable for securing the float in lieu of cement mooring blocks?
Response	Helical anchors will not be considered acceptable.
Question #7	In the bid documents, there are two insurance sections. The section with the "Mandatory Insurance Coverages" (sheet 6 of contract) does not require an umbrella policy or builders risk policy. However, in the other section, GENERAL CONDITIONS 0700-5, it specifies that a builder's risk and umbrella policy are required. Given the small scope of work on the project, will the City waive the umbrella and builder's risk policy?
Response	The Umbrella Policy and Builder's Risk Policy will not be required for this project.
Question #8	When is the anticipated notice of award date?
Response	The anticipated award date will be late June 2023 subject to funding and permitting.

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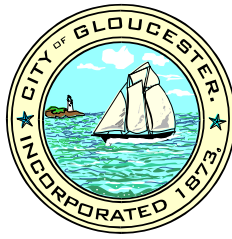
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Question #9	When is the anticipated notice to proceed date?
Response	The anticipated award date will be late June 2023 subject to funding and permitting.
Question #10	Given the short timeline of the project, the required submittals, and the large, liquidated damages, will the City consider extending the completion date by 1 month?
Response	The City will consider a total number of 90 calendar days as acceptable for a completion date.
Question #11	Will the City configure the completion deadline as a day count instead of a date? If there is a delay in issuing a notice to proceed, it will significantly lessen the project window.
Response	The City will consider a total of 90 Calendar days as an acceptable completion deadline.
Question #12	There was discussion at the prebid meeting about the City performing or assisting some of the work, specifically the moorings and the gangway modifications. Please clarify what specifically the City will be responsible for and what capacity they will assist the contractor in.
Response	It is the Contractor's responsibility to perform all work as described in the Contract Documents, including delivery of the aluminum gangway to the Site.
Question #13	Who is responsible for obstructions encountered during pile driving?
Response	Refer to Attachment A – Revised Technical Specification 02606 Timber Piles, Section 3.1B. The Contractor is responsible for removal of obstructions to a limit of ten feet in depth below the harbor bottom.

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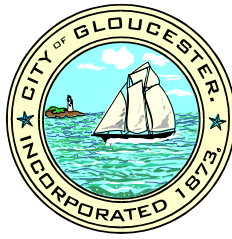
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Question #14	What size and material are the eye bolts that are attached to the gallows frame?
Response	The eye bolts should be 1 ¼” diameter galvanized eyebolts with sufficient inner eye diameter to accommodate 3-ton hand chain hoist.
Question #15	Sheet 4 of 5, it states "GALLOWS FRAME CONNECTION FLANGE WITH PROVISIONS FOR WINCH ATTACHMENT" and an arrow pointing to a horizontal line intersecting the eyebolts. Is this referring to the eyebolt that accept the 3-ton chain hoist?
Response	The callout is referring to the eyebolt that accepts the 3-ton chain hoist.
Question #16	What material are the cleats on the float to be made of? The plan calls for stainless steel however the specifications state they are to made of malleable or ductile iron.
Response	The cleats shall be 8” galvanized steel.
Question #17	Sheet 5 of 5, gangway bottom connection, it specifies 1.5" galvanized eye bolts. Is 1.5" the diameter of the bolt or the diameter of the eye?
Response	The eyebolts in the gangway bottom connection may have a 1” bolt diameter.
Question #18	How many sides of the float have fendering?
Response	Two. Each 24-foot-long side shall have fendering.
Question #19	What size D fender does the float have?
Response	The D fenders shall be 3”

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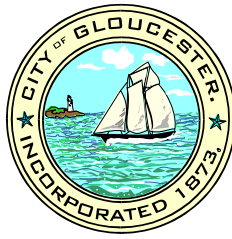
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Question #20	Considering the short project window, to avoid the calculation and design submittal, will the City accept the floats built to the "Float Framing Detail" design on drawing 5?
Response	No, the City requires a submittal in accordance with Specification 06135 Section 1.4 and related sections.
Question #21	Please confirm which class of piling is intended to be used on this project.
Response	Class B piling should be used in this project.
Question #22	It is assumed that the mention of a previous structure elevation being 2' lower on an attachment to the order of conditions pertains to a structure predating the existing pier, and there is no raising of the pier structure in this contract. Please confirm.
Response	That is correct. Raising of the pier structure is not included in this project.
Question #23	Please provide an as-built shop drawing for the existing gangway 5th wheel hinge connection.
Response	Refer to Attachment B.
Question #24	Please specify the components of the 5th wheel hinge scheduled to be replaced.
Response	The City will procure the 5th wheel hinge components. The Contractor's responsibility will be to install provided materials and evaluate existing pier gangway connections.
Question #25	Please provide a specification/product data for anti-sway straps.
Response	The anti-sway straps shall be 2" wide, 2-ply nylon straps of suitable length to avoid gangway contact with gallows frame and fastened around each plumb pile.

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Question #26	Please provide a specification/product data for Gangway lifting straps.
Response	The gangway lifting strap shall be Triangle-Triangle 3” wide, 2-ply nylon strap of suitable length and of the lifting capacity to lift existing gangway.
Question #27	Spec section FLOATING DOCK 06135 – 1 Part 2.1 MATERIALS L. For concrete anchor system #4 references reinforcing steel for the concrete mooring docks, please provide a reinforcement detail for 4 ton reinforced concrete mooring block.
Response	Concrete anchor block and anchor chain connection and design shall be submitted in accordance with Specification 06135 Section 2.3B and related sections.
Question #28	VIEW OF GALLOWS FRAME detail on drawing 4 shows upper and lower grab rail with perches on posts shown on either side, outside of the frame width of the proposed relocated gangway, is this part of the existing gangway something additional to be furnished and installed through the contract?
Response	The upper and lower grab rails are existing gangway features.

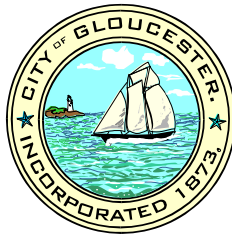
For the contractor:

For the City:

Company Name		City of Gloucester MA
Authorized Signature		<i>Stacey Capone</i>
Title/Printed Name		Purchasing Agent
Date		

Note: All bidders must sign and submit with bid package. Failure to include signed form may disqualify the bid as incomplete.

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SECTION 02606

TIMBER PILES

PART 1 - GENERAL

1.1 WORK INCLUDED

- A. The work covered by this section consists of providing all survey, supervision, labor, materials, tools, equipment, and services necessary for, and incidental to, the installation of timber piles for use in gallows frame construction, as shown on the Contract Drawings and as required to complete the work. This work includes but is not limited to, the following:
1. Furnishing and installing new CCA-treated, Southern Yellow Pine Class B timber piles to the required locations and elevations as shown on the Contract Drawings and specified hereinafter, and hardware.
 2. Layout of piles prior to installation.
 3. Cutting off piles to the elevation indicated on the Contract Drawings.
 4. Furnishing and installing galvanized wire rope and staples.
 5. The Contractor may be required to remove and re-affix new piles at no additional cost to the Owner if these requirements are not met.
 6. All other timber pile installation activities necessary to perform the work.
- B. All timber piles described herein and shown on the Contract Drawings shall be new materials consistent with the requirements of this section, related sections, and the Contract Drawings.

1.2 RELATED SECTIONS

- 01000 GENERAL REQUIREMENTS
02002 MOBILIZATION AND DEMOBILIZATION
02607 TIMBER GALLOWS FRAME CONSTRUCTION
05000 MISCELLANEOUS METALS

1.3 REFERENCES

- A. References herein to any technical society, organization, group, or body are made in accordance with the following abbreviations and, unless otherwise noted or specified, all work under this Section shall conform to the latest edition as applicable:
1. American Lumber Standard Committee (ALSC), latest edition
 2. American Society for Testing and Materials (ASTM), latest edition
 - a. D25 – Standard Specification for Round Timber Piles
 - b. D245 – Standard Practice for Establishing Structural Grades and Related Allowable Properties for Visually Graded Lumber
 - c. D2555 – Standard Practice for Establishing Clear Wood Strength Values
 - d. D2899 – Standard Practice for Establishing Allowable Stresses for Round Timber Piles

- e. A123 – Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
 - f. A153 – Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
- 3. Forest Stewardship Council (FSC) Guidelines
 - 4. International Building Code, latest edition
 - 5. Massachusetts Building Code, latest edition
 - 6. National Design Specification for Wood Construction (NDS) 2018, or latest edition

1.4 SUBMITTALS AND SAMPLES

- A. Submit description of timber pile installation procedures including equipment to be employed in the work and templates/false work to be used for support and layout of pile installation operations.
- B. Submit plans for the delivery, storage, and handling of piles.
- C. Contractor shall submit complete and fully descriptive information and data to demonstrate the materials and procedures to be used are in compliance with these specifications. Plant, materials, workmanship, finished products, and installation are subject to inspection at the site. Installation shall not be performed unless in the presence of the Engineer.
- D. Product Data: Certify that the following materials meet or exceed the specification requirements outlined in Part 2 – Materials, by submitting a notarized copy of chemical and physical test results:
 - 1. New CCA-treated Southern Yellow Pine timber piles: Contractor shall submit to Engineer for review electronic copies of licensed independent testing laboratory certification that the piles were free from defects, were properly peeled, seasoned, and otherwise prepared for the intended use.
 - 2. Galvanized hardware associated with the gallows frame construction including, but not limited to, connectors (brackets and plates), wire rope, bolts, nuts, washers, pins, and rods.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Contractor shall store and handle timber piles to avoid damage to the piles. Piles shall be stacked during delivery and storage so that each of the piles is maintained in a straight position with. Piles shall not be stacked more than 5 feet high. Piles may not be stored directly on the ground or on any surface which may subject the material to exposure to marine water, fresh water, or other dry or fluid contaminants.
- B. Piles shall not be dragged across the ground. Contractor shall inspect piles for damage before transporting from the storage area to the construction area and immediately prior to installation. Bent or damaged piles shall be rejected.
- C. Contractor shall be responsible for all damage to piles until Final Acceptance, except as specified otherwise in this Specification.
- D. Contractor shall protect piles during handling and installation.
- E. Inspection and review of piles at the place of manufacture shall not be construed as acceptance.

1.6 QUALITY ASSURANCE

- A. Comply with all rules, regulations, laws and ordinances of the Commonwealth of Massachusetts and all other authorities having jurisdiction. All labor, materials, equipment, and services necessary to make work comply with such requirements shall be provided without additional cost to the Owner.
- B. The Contractor shall provide, at its own expense, all materials and labor as may be required to establish and maintain all project control lines, references marks, and line and grade stakes. The Contractor shall maintain the project controls throughout the duration of the project, at the Contractor's own expense.

PART 2 - PRODUCTS

2.1 SOUTHERN YELLOW PINE TIMBER PILES

- A. New timber pier support piles shall be Southern Yellow Pine Class B timber piles, and shall conform to the following:
 - 1. Minimum diameters: 12 inches at 3 feet from butt and 9 inches at the tip.
 - 2. Treatment: Chromated Copper Arsenate (CCA), minimum retention of 2.5 PCF.
 - 3. ASTM Standard D25 "Standard Specifications for Round Timber Piles," latest edition.
 - 4. Each pile shall be free from any defects that may impair its strength or durability.
 - 5. Piles shall have a substantially uniform taper from butt to tip and shall be free of kinks.
 - 6. The axis of the pile shall not deviate from a straight line by more than 1 inch for each 10 feet of length.
 - 7. Sealing compound for cut-offs – two liberal brush coats of Copper Naphthenate containing minimum of 2% metallic copper in solution, meeting AWWA standards.

2.2 HARDWARE

- A. All connectors (brackets and plates), bolts, nuts, washers, pins, and rods shall be medium carbon steel, galvanized, and suitable size and type required to complete the work as shown in the Contract Drawings and as approved by the Engineer.
- B. All hardware shall be hot-dipped galvanized after fabrication and threading of stock, in accordance with ANSI/ASTM Standards A123 and A153.
- C. Washers shall be round steel plate, 3" minimum O.D. and 1/4" minimum thickness, galvanized, unless otherwise specified.

PART 3 - EXECUTION

3.1 NEW TIMBER PILES

- A. New timber piles to be installed and driven to specified depth in the locations indicated on the Contract Drawings.
- B. **Notify Engineer immediately if obstructions are encountered. Where obstructions are encountered, the Engineer will determine if extraction, repositioning, or re-driving, is necessary. Contractor shall be**

responsible for removal of obstructions to a limit of ten feet in depth below the harbor bottom to improve access for pile driving. It is understood that such operations shall be required and is considered incidental under this item.

- C. Piles are to be installed at the slope specified on the Contract drawings, two plumb piles, two at an approximate slope of 1H:6V, two piles at an approximate slope of 1H:4V, unless otherwise directed by the Engineer.
- D. Contractor shall be responsible for correctly locating new piles to be installed. Piles shall be installed within two (2) inches horizontally of the design location. Piles not driven within these limits will not be eligible for payment. Piles may not be pulled into position.

3.2 CUT-OFFS

- A. Piles shall be cut off, as appropriate, at the required cut-off elevation shown on the Contract Drawings. Pile cut-offs shall become the property of the Contractor and shall be removed from the site.

3.3 DAMAGED AND MISPLACED PILES

- A. The Contractor shall remove and replace any damaged or defective pile that is impaired for its intended use and any pile that exceeds the driving tolerances. Fill holes left by withdrawn piles as directed by the Engineer.

3.4 HARDWARE

- A. Bolt holes for structural connections shall be 1/16" larger than the bolt diameter for bolts 1/2" or larger in diameter and shall be 1/32" larger than the bolt diameter for bolts smaller than 1/2" in diameter, specified otherwise as approved by the Engineer.
- B. All bolts shall bear on round galvanized plate washers under the galvanized nut and the head.
- C. After nuts have been tightened, there shall be at least 1/2", but not more than 2", of exposed thread beyond the nuts.
- D. Fit exposed connections accurately together to form tight joints. Cut exposed joints smooth and repair cut surfaces. Do not cut or abrade the surfaces of items which have been hot-dip galvanized.
- E. After erection, touch-up galvanized surfaces with primer consistent with shop coat and apply as recommended by the manufacturer.

PART 4 - MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. TIMBER PILES – shall be measured for payment for each timber pile installed complete to the lines and grades as indicated on the Contract Drawings, as measured by the Engineer.

4.2 PAYMENT

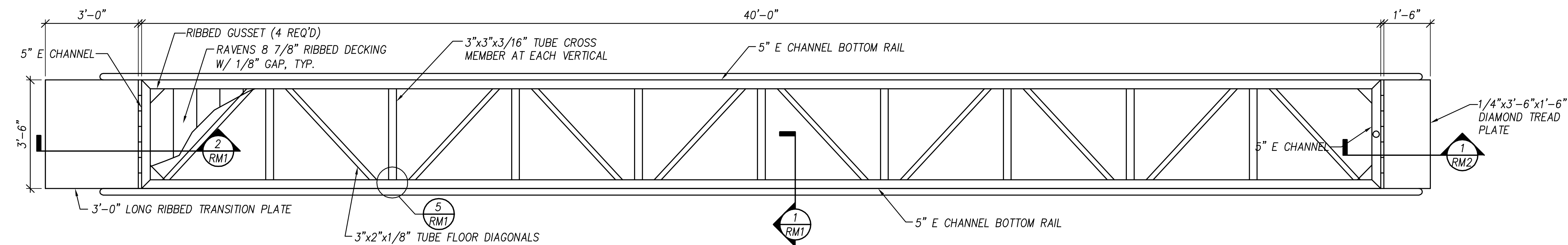
- A. TIMBER PILES – shall be paid for under Contract Item 02606-1 for the contract unit price per Each. Payment shall include full compensation for survey, supervision, labor, materials, tools, equipment and

services necessary for, and incidental to, the procurement and installation of all pile elements including, but not limited to, new CCA-treated Southern Yellow Pine timber piles to the locations and elevations indicated by the Contract Drawings including pinning and hardware, and associated fasteners including wire rope, dowels, pins, staples, screws nuts/bolts, washers, brackets, plates, and any other members used in construction of the pile, as shown in the Contract Drawings, as specified herein, and as directed by the Engineer.

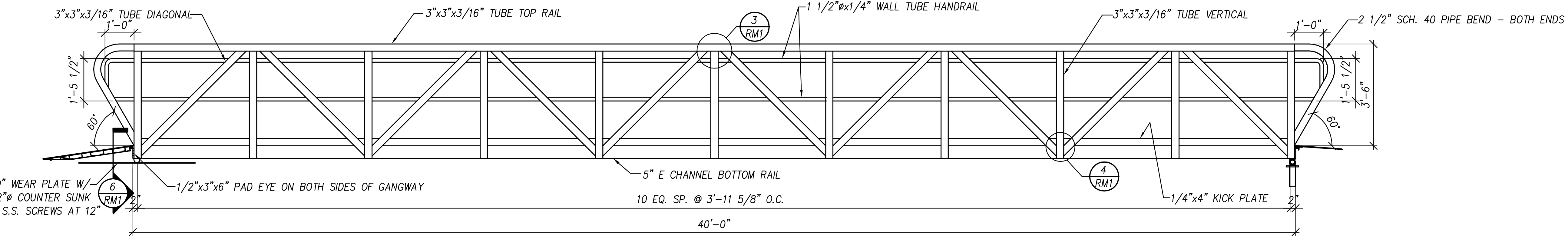
4.3 PAYMENT ITEMS

ITEM	DESCRIPTION	UNIT PRICE
02606-1	TIMBER PILES	Each

END OF SECTION



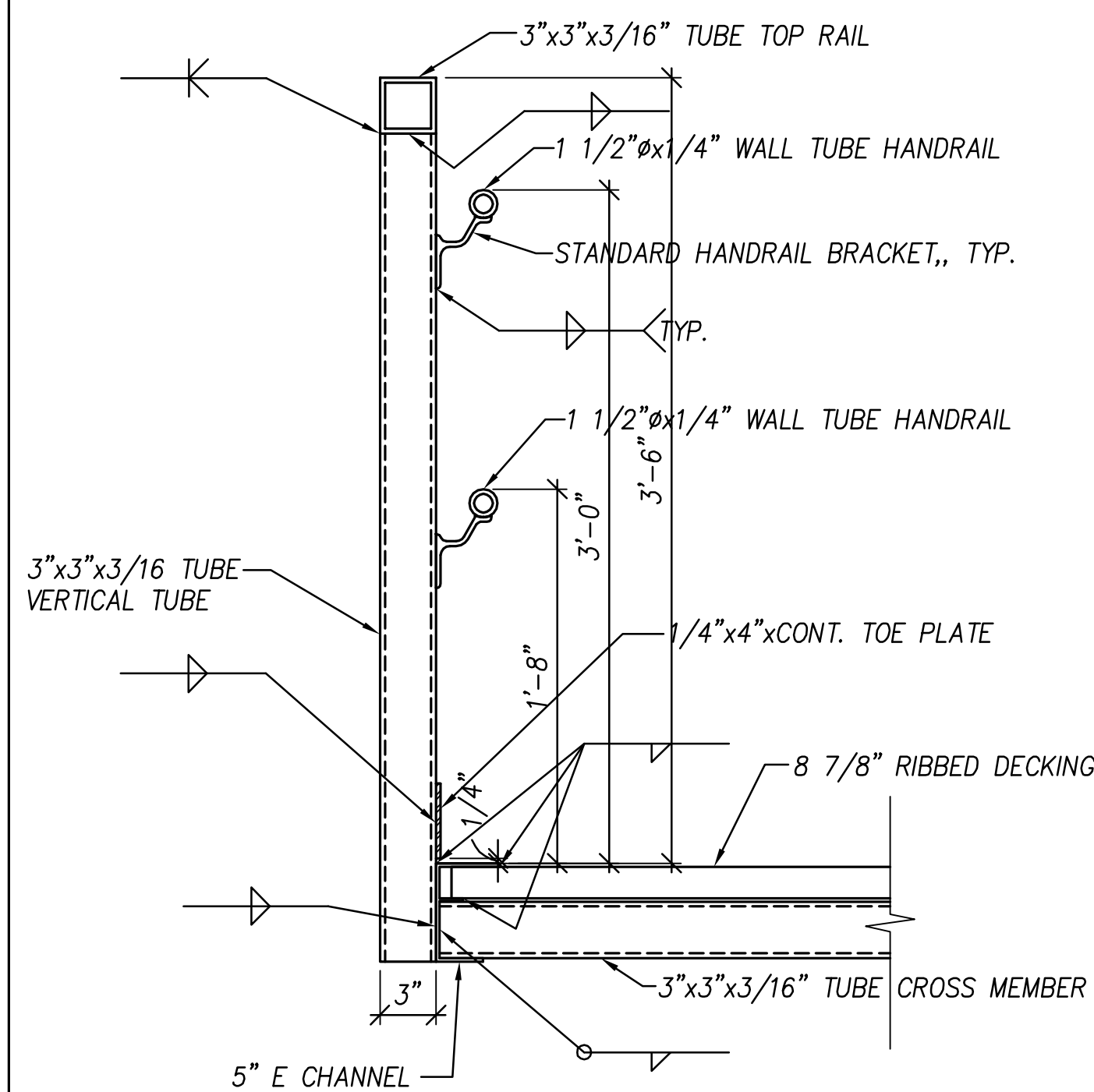
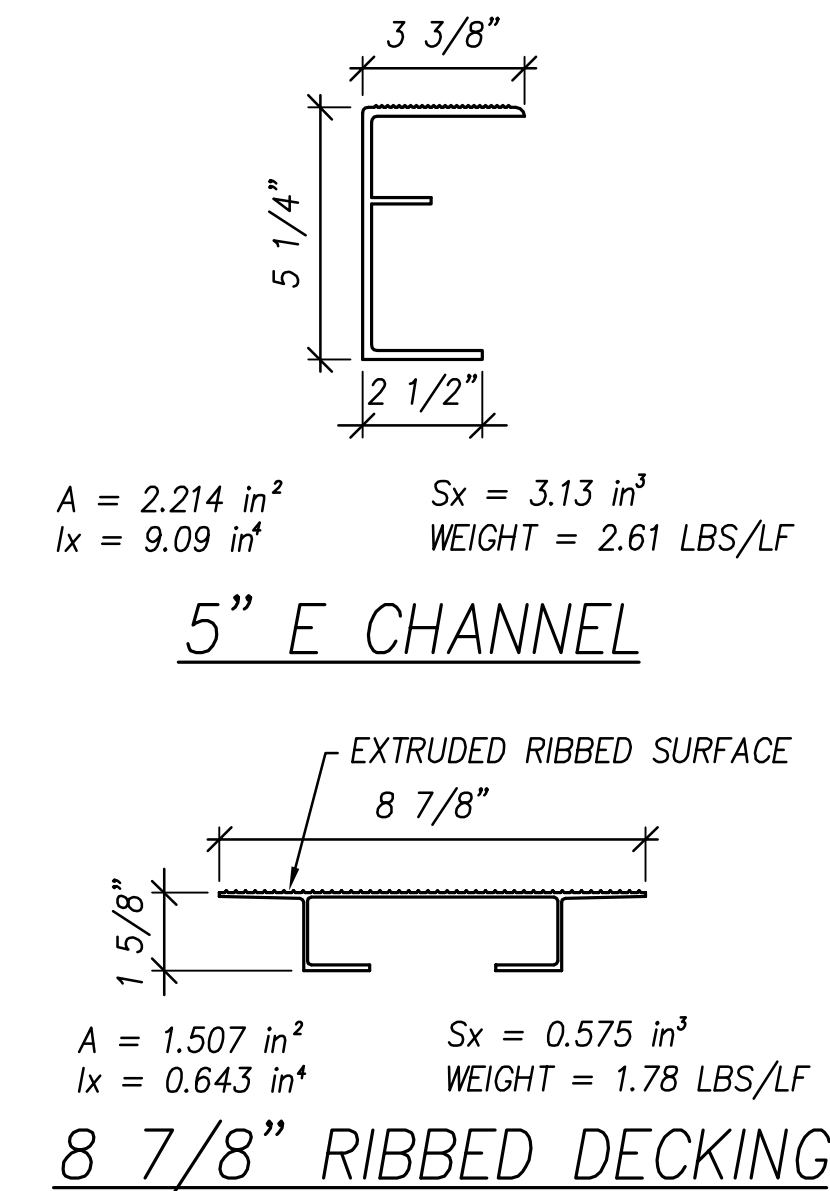
3'-6" x 40'-0" M-1 GANGWAY PLAN
SCALE 1/2" = 1'-0"



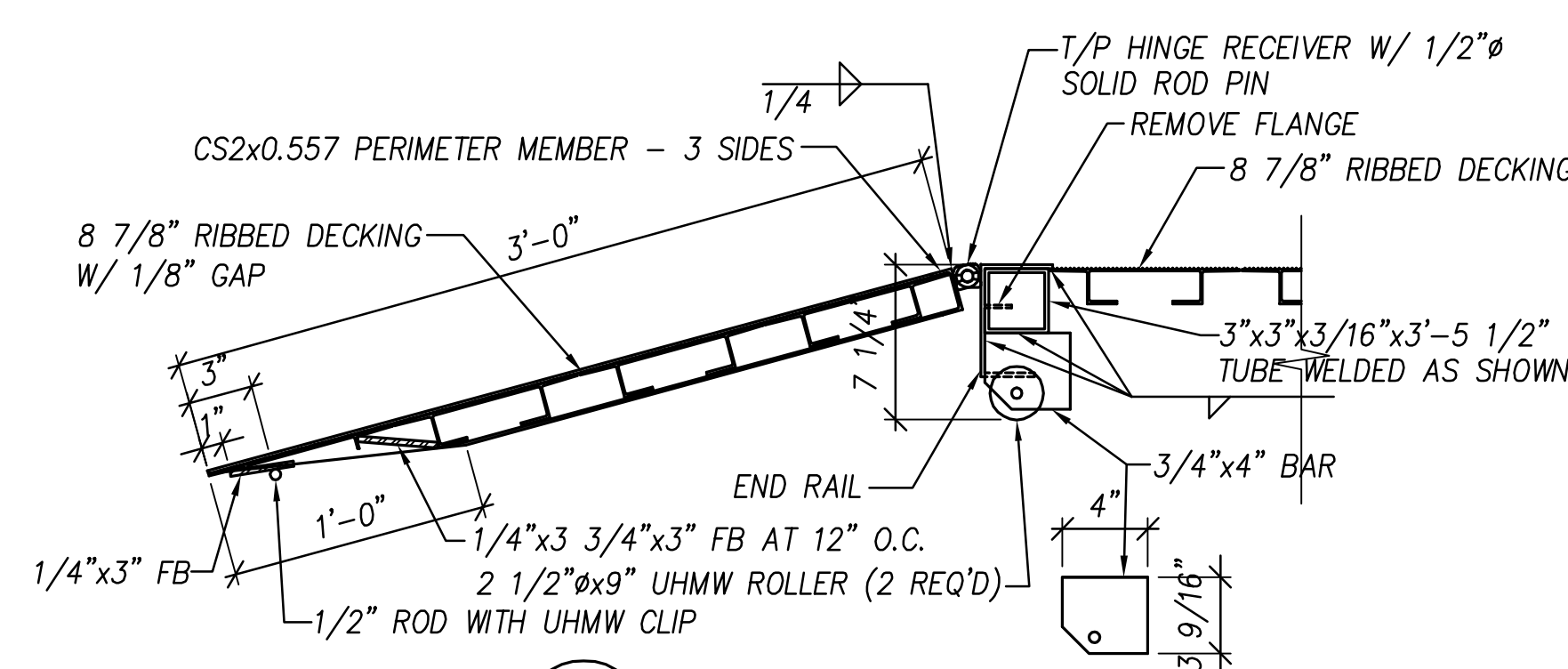
3'-6" x 40'-0" M-1 GANGWAY ELEVATION
SCALE 1/2" = 1'-0"

- NOTES**
1. REFERENCED CODES AND DESIGN STANDARDS: THE ALUMINUM ASSOCIATIONS SPECIFICATIONS & GUIDELINES FOR ALUMINUM STRUCTURES, 2015 EDITION; ALUMINUM STRUCTURES, A GUIDE TO THEIR SPECIFICATIONS AND DESIGN; AWS D1.2/D1.2M STRUCTURAL WELDING CODE - ALUMINUM; ASCE 7-10
 2. DESIGN LOADS:
LIVE LIVE = 60 PSF OR 500 LBF POINT LOAD
HANDRAIL LOAD = 50 PLF OR 200 LBF POINT LOAD AT TOP OF RAIL ANY DIRECTION NON CONCURRENTLY
 3. WIND DESIGN:
WIND LOAD VELOCITY = 129 MPH (ASD 3-SEC GUST)
RISK CATEGORY = II
EXPOSURE FACTOR = D
 4. MAXIMUM VERTICAL DEFLECTION = L/180
 5. MAXIMUM HORIZONTAL DEFLECTION = L/300
 6. ALL ALUMINUM 6061-T6 WITH MILL FINISH
 7. ALL FASTENERS AND ANCHORS ASTM F593 TYPE 316 STAINLESS STEEL
 8. 100% MIG WELDED CONSTRUCTION WITH 5356 ALLOY FILLER
 9. ALL WELDS 3/16" FILLET, TYP. UNLESS NOTED OTHERWISE
 10. 5th WHEEL HINGE IS DESIGNED TO ALLOW THE ROLLER END OF THE GANGWAY TO ROTATE 6'-0" LATERALLY EACH WAY FROM CENTERLINE FOR A TOTAL OF 12'-0" MOVEMENT
 11. 5th WHEEL HINGE SHELF ATTACHMENT DESIGN TO ABUTMENT IS BY OTHERS. CUSTOMER SHALL SUBMIT PROPOSED CONNECTION DESIGN TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO INSTALLATION

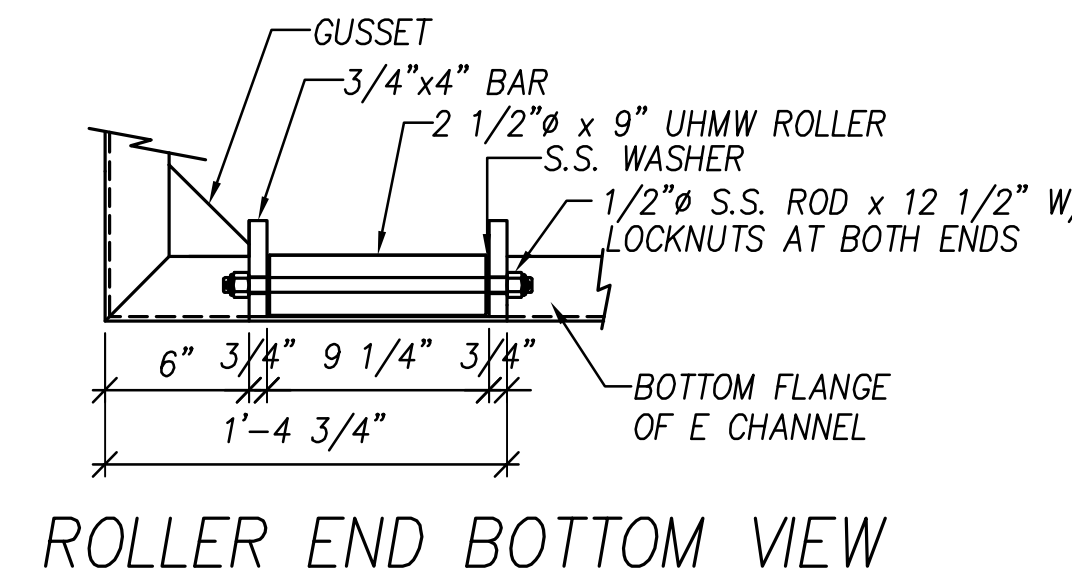
1/8" x 6'-0" x 9'-0" WEAR PLATE W/
PRE-DRILL 9/32" Ø COUNTER SUNK
HOLES FOR #14 S.S. SCREWS AT 12"
O.C. ALL SIDES



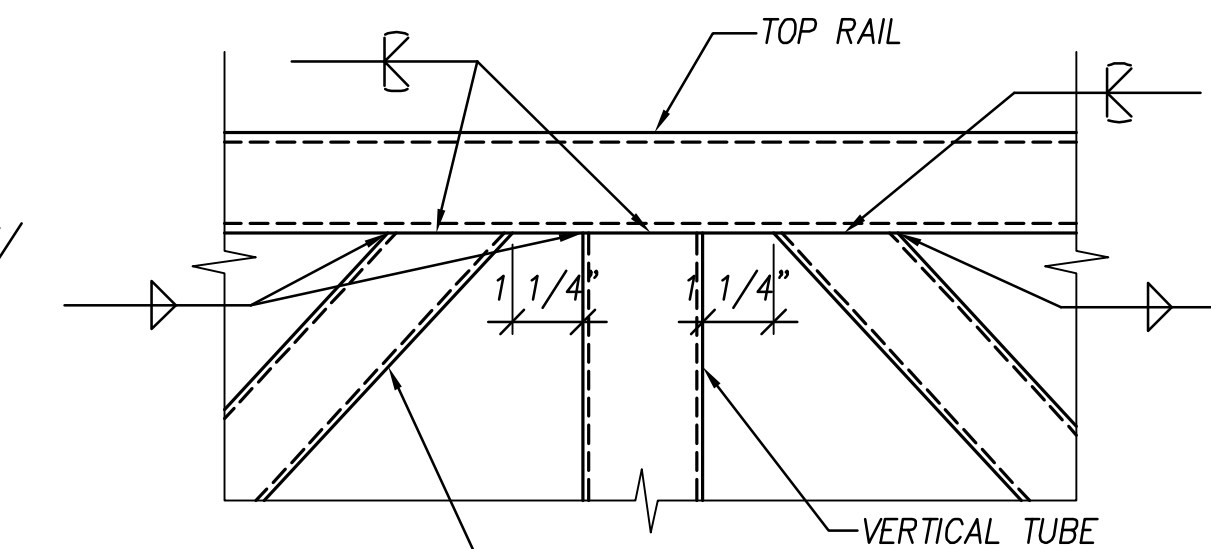
1 SECTION
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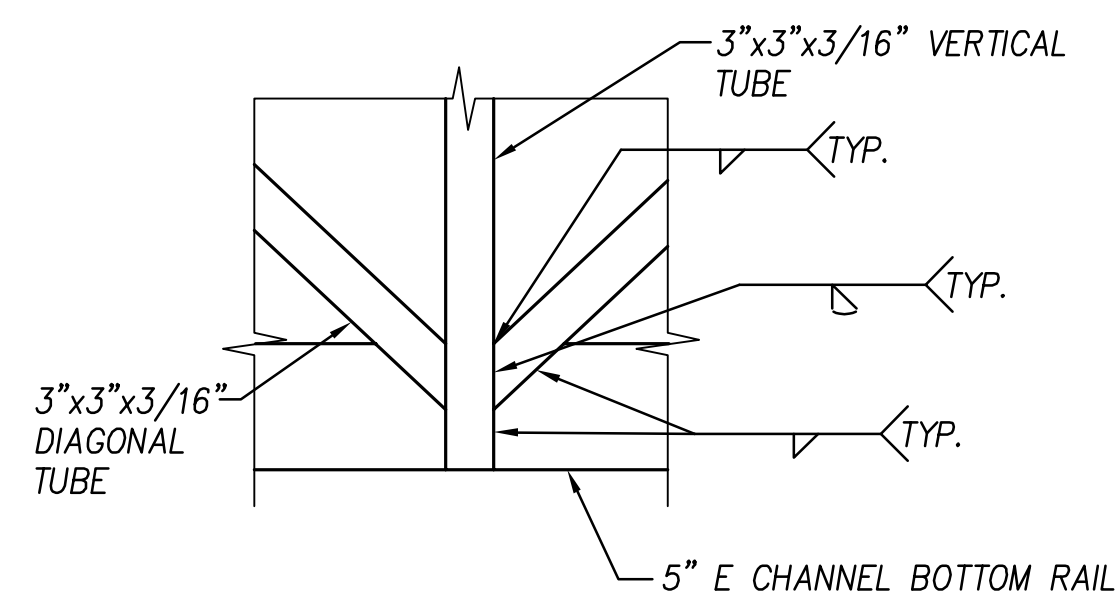
2 SECTION
SCALE 1 1/2" = 1'-0"



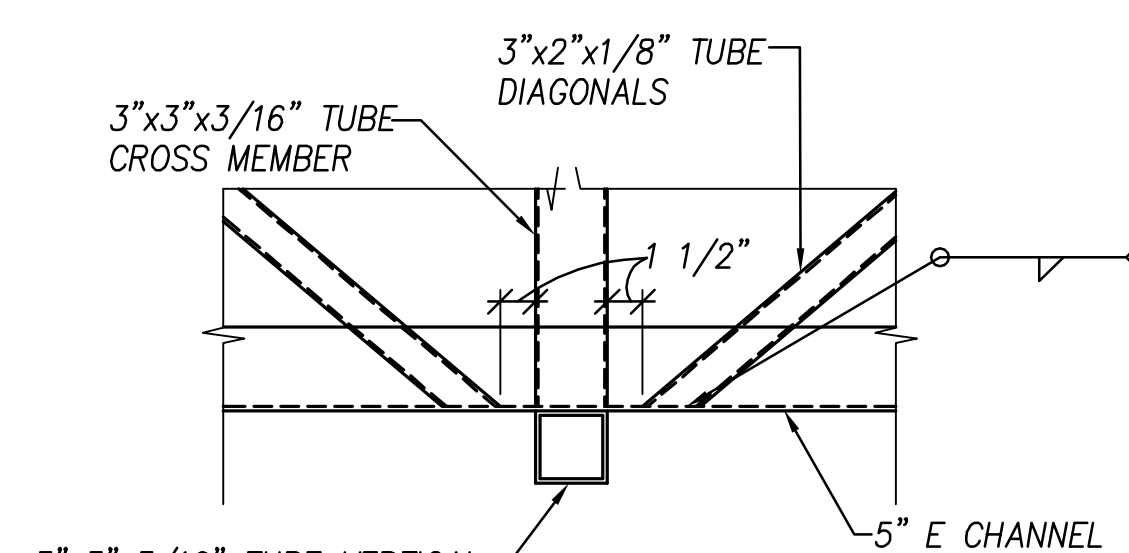
ROLLER END BOTTOM VIEW



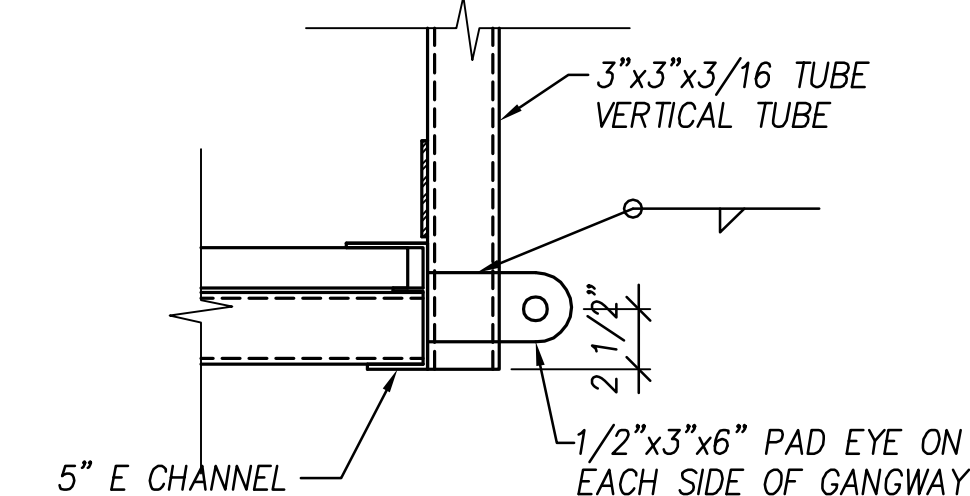
3 SECTION
SCALE 3" = 1'-0"



4 SECTION
SCALE 3" = 1'-0"



5 SECTION
SCALE 1 1/2" = 1'-0"



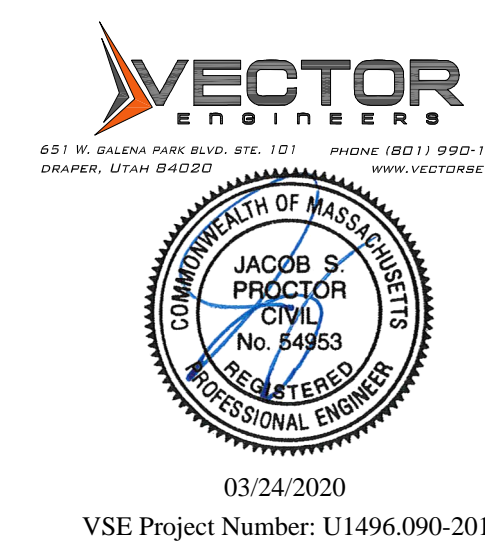
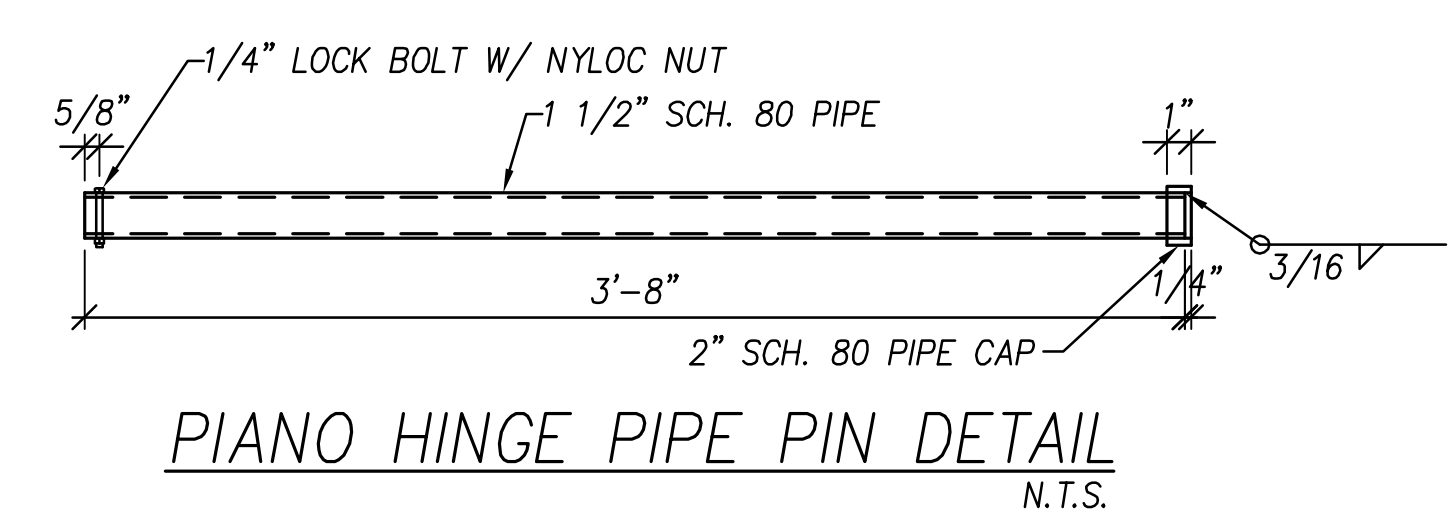
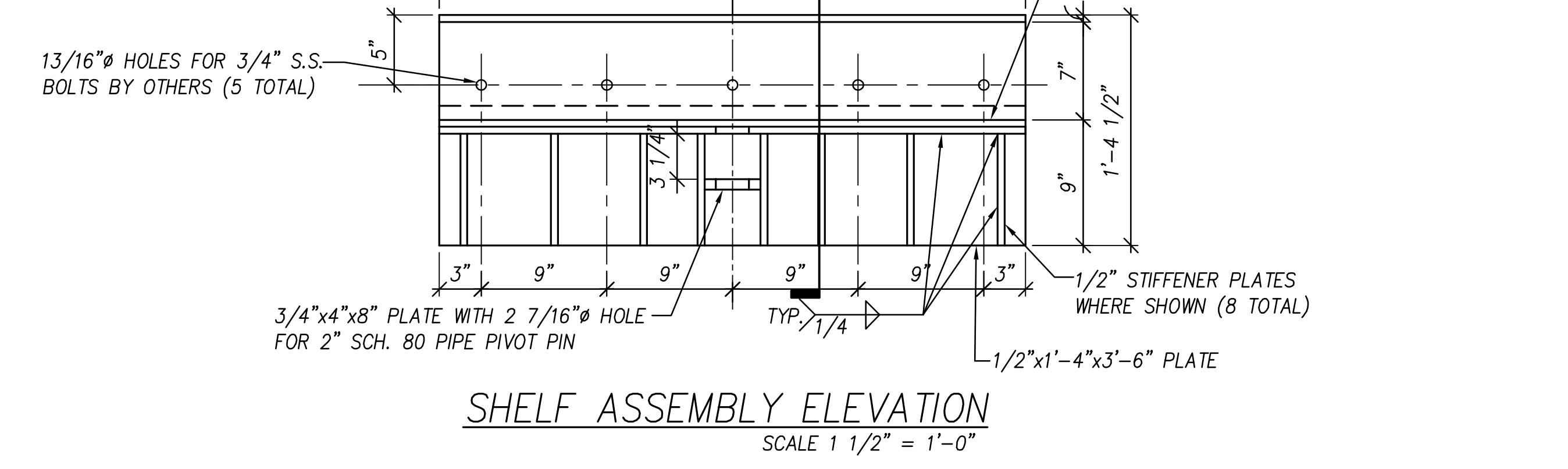
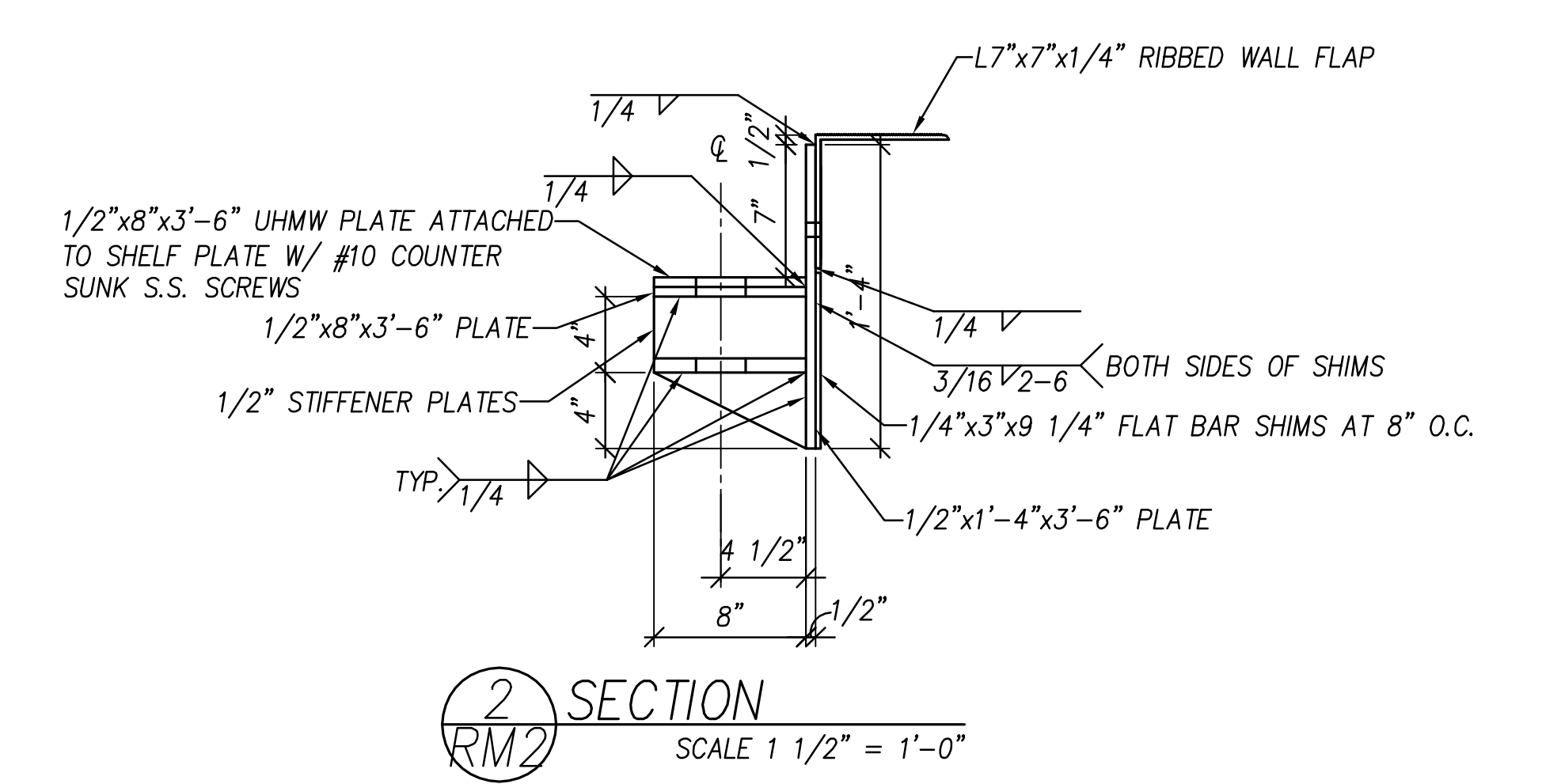
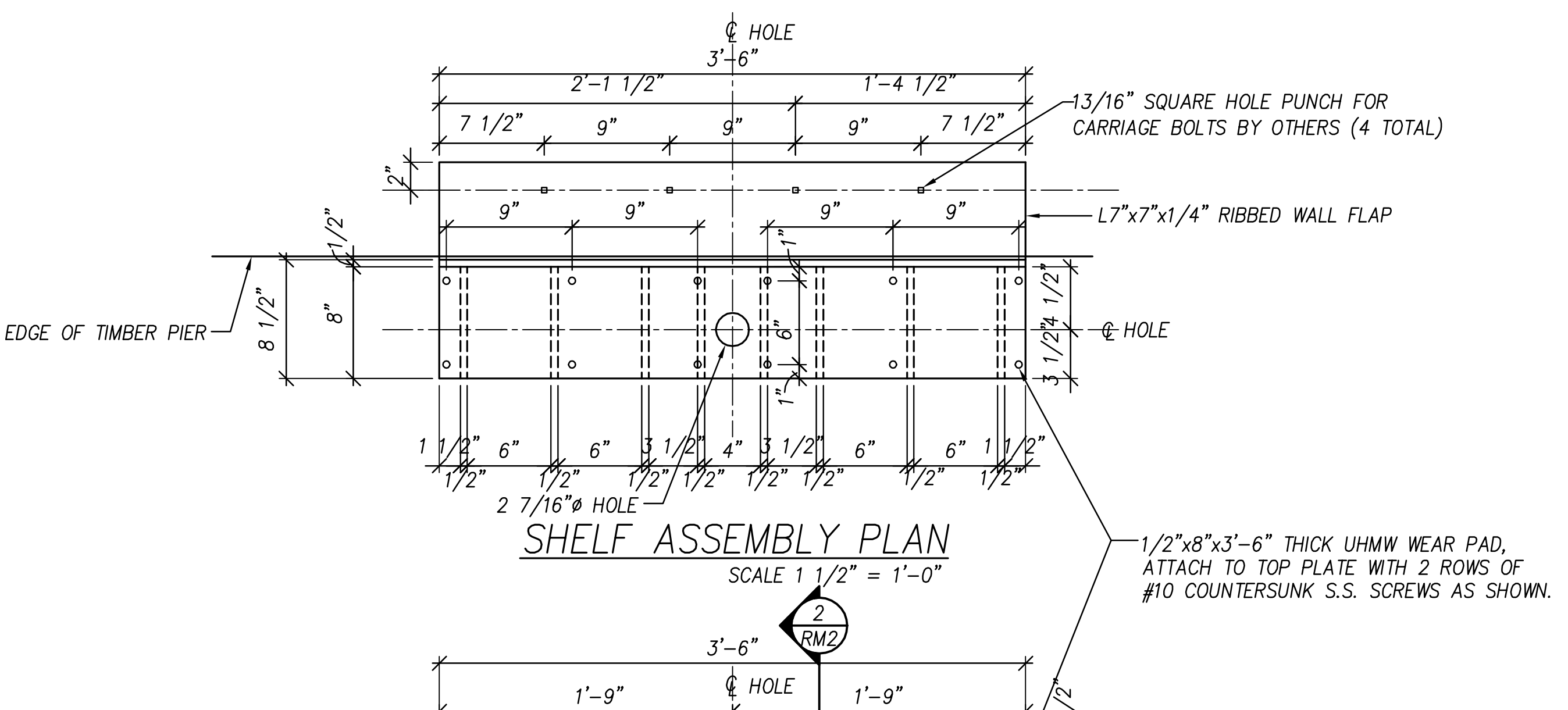
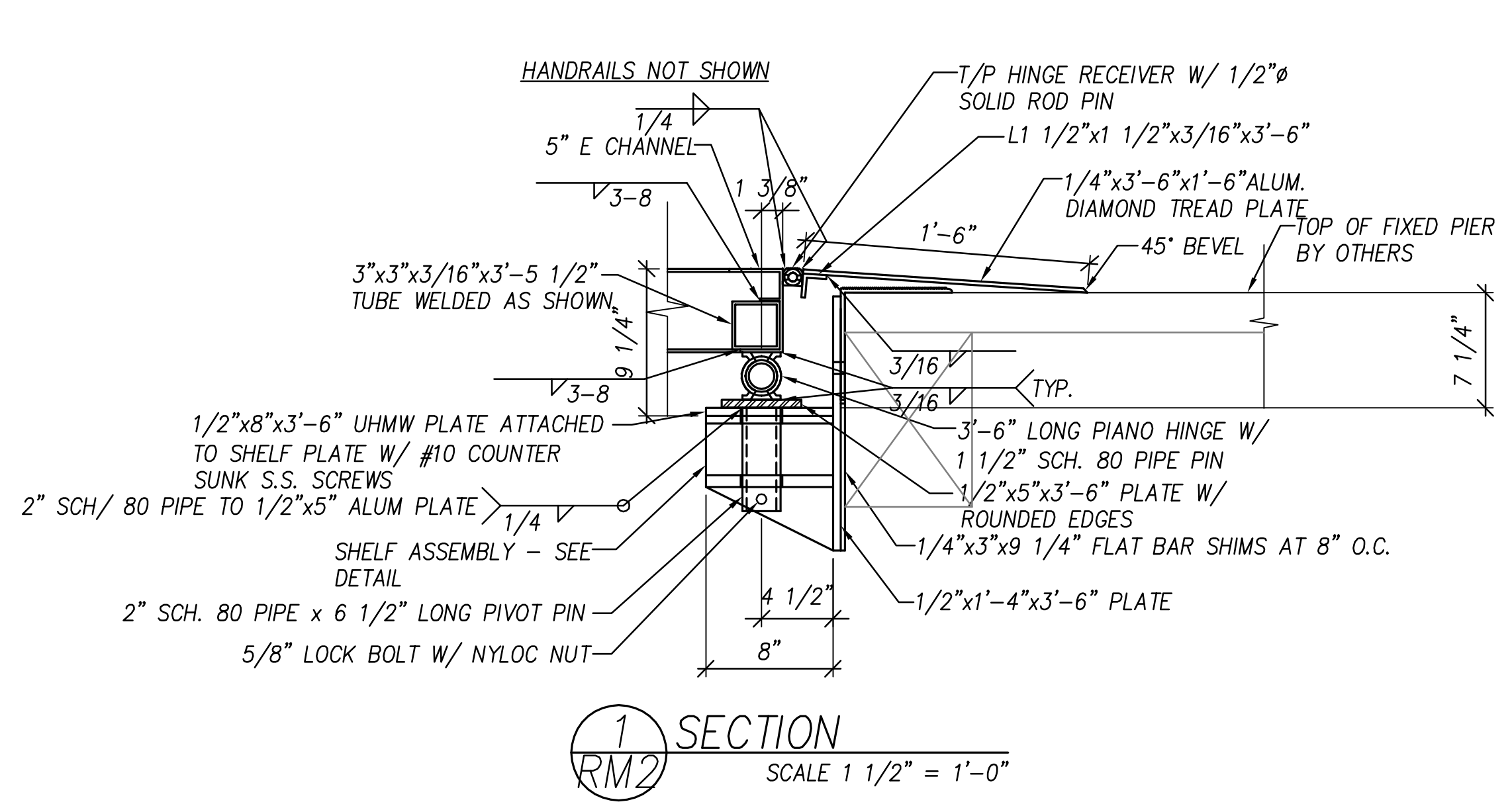
6 SECTION
SCALE 1 1/2" = 1'-0"



03/24/2020
VSE Project Number: U1496.090-201

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RAVENS CUSTOMER: BTT MARINE
3'-6" x 40'-0" MARINER-I GANGWAY
DATE: 3/23/20 SHEET: 1 OF 2 DWG NO.: RM-1



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DATE: 3/23/20	SHEET: 2 OF 2 DWG NO.: RM-2

City Hall
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CITY OF GLOUCESTER

OFFICE OF THE PURCHASING AGENT

FOR PROCUREMENT INFORMATION: www.gloucester-ma.gov
 TO CONTACT PURCHASING DEPARTMENT: purchasing@gloucester-ma.gov

MAGNOLIA PIER IMPROVEMENTS PROJECT- IFB 23145
Wednesday, May 31, 2023 at 1:00 P.M.

Company's Name	Participant's Name	Tel.	Fax	E mail
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Burnham Associates Inc	Matt Sullivan	978 745-1788	978 741-1984	matt@burnhammarine.com

COMMENTS:
