

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HARBORS**

ADDENDUM NO. 1

TO

PLANS AND SPECIFICATIONS

FOR

**FENDER REPAIRS AT PIERS 1, 2 AND TUG PIER,
KAHULUI HARBOR, MAUI, HAWAII**

JOB S30215

May 23, 2023

This Addendum shall make the following amendments to the Bid Documents:

A. SPECIFICATIONS

1. Delete Article XIII Fender Repair Work, pages 13-1 through 13-3. Replace with the attached revised Article XIII Fender Repair Work, pages 13-1 through 13-3 dated r05/23/23.

B. PLANS

1. Delete Sheets T-2 and S-1 through S-10. Replace with the attached revised Sheets T-2 and S-1 through S-10.

C. PRE-BID MINUTES – The Pre-Bid Meeting Minutes are attached for your information.

Kindly acknowledge receipt of this Addendum No. 1 by recording the date of its receipt in the space provided therefore on page P-4 of the PROPOSAL.



DREANALEE K. KALILI

Deputy Director

Department of Transportation, Harbors

ARTICLE XIII – FENDER REPAIR WORK

13.1 GENERAL – The work to be done under this Article consists of replacing portions of the existing fender systems at Piers 1, 2 and the Tug Pier. The work includes, but is not limited to the following:

- A. Removing and disposing of the existing tire and wale fender systems at Piers 1 and 2, and tire fenders and associated hardware at the Tug Pier. The existing timber is assumed to be treated with creosote. The Contractor shall take appropriate precautions and follow all governing laws when handling, removing, and disposing of the existing timber.
- B. Furnishing new molded lumber, tires and other miscellaneous hardware required to install the new fender systems at Piers 1, 2 and the Tug Pier. All hardware required for fender installation shall be provided by the Contractor.

13.2 MATERIAL

- A. Molded Lumber - Molded lumber for the fender systems shall be bar and fiber reinforced molded lumber and high-density plastic sheet manufactured by Tangent Technologies, LLC, or approved equal.
 - 1. Color – Color for new molded lumber shall be dark brown to match the existing fender systems and shall be submitted to the Construction Engineer for approval.
 - 2. Structural molded lumber shall be manufactured with high-density polyethylene (HDPE) and fiberglass elements to act as a reinforcement with HDPE as shown on the Drawings.
 - 3. Lumber shall be molded in one piece per specified size.
 - 4. All materials will have ultraviolet (UV) additives to prevent deterioration of the molded lumber from exposure to UV light.
 - 5. HDPE will be made up of 100% recycled material, both post-industrial and post-consumer, excluding additives and colorants.
 - 6. Finished molded lumber will not rot, split, crack or splinter for a minimum of 50 years. It shall be resistant to termites, marine borers, salt spray, oil and fungus.
 - 7. Molded lumber shall have a textured non-slip finish.

B. Hardware

1. Tire fender chains, shackles, grommets and other miscellaneous hardware for the fender systems shall be hot dip galvanized AFTER fabrication.
2. Chains – Chains for hanging tires shall be hot dip galvanized 3/4-inch dock fender (mooring) chain with a minimum working load limit of 11,600 pounds, respectively.
3. Shackles – Shackles shall be forged, hot dip galvanized steel, 7/8-inch anchor shackle with bolt, nut and stainless-steel cotter pin. Shackles shall have a minimum working load of 6.5 tons.
4. Grommets – Grommets shall be fabricated as shown on the plans and the structural steel used shall conform to American Society for Testing and Materials (ASTM) A36. All welding shall conform to the requirements of the American Welding Society. Pipe used in grommets shall be standard weight (Schedule 40) steel pipe. The entire assembly shall be hot dip galvanized after fabrication according with ASTM A123.
5. Cold Galvanizing Compound – Cold galvanizing compound shall be **“ZRC Cold Galvanizing Compound”** as manufactured by ZRC Worldwide or approved equal.
6. New bolts and other miscellaneous connection hardware for molded lumber shall be Type 316 stainless steel unless noted otherwise on the drawings.
7. Screws shall be Type 316 Stainless Steel SDWS Timber SS Screws by Simpson Strong-Tie Company, Inc., or approved equal.
8. Tires – Tires for the fender systems shall match the existing tire fenders. The new tire width shall match the existing tire width.
 - a. Department of Transportation, Harbors, will NOT provide tires for the new fender systems. The Contractor shall furnish tires for the tire fender systems.
 - b. Tires furnished by Contractor shall be free of rips, tears or other significant damage to the satisfaction of the Construction Engineer.

13.3 CONSTRUCTION

- A. Removal Work – The existing fender systems shall be carefully removed so as not to damage the existing pier and other structures to remain and shall be disposed of by the Contractor away from the project site in a lawful manner. Any damage to the pier structure shall be repaired by the Contractor at its expense.

- B. New Fender Systems
Fabrication of molded lumber shall be per manufacturer's written specifications. Drilled holes and patches shall be repaired per recommended repair procedures.
- C. The new fender systems, including molded lumber wales and blocking, shall be installed as shown on the plans together with final adjustments (if any) required to fit the systems snugly against the exterior face of the wharf. Adjustments shall be made by the Contractor at its expense and to the satisfaction of the Construction Engineer. All adjustments shall be made prior to the final acceptance of the contract by the State.
- D. The Contractor shall install the tire fenders, chains and angle irons in the areas shown on the drawings.
- E. Final Adjustment of Fenders – Final adjustments (if any) required to fit the fenders snugly against the exterior face shall be made by the Contractor at its expense and to the satisfaction of the Construction Engineer. All fender adjustments shall be made prior to the final acceptance of the contract by the State.

13.4 PAYMENT – Payment for furnishing and installing the new tire fender systems shall be made as described in Article X of the Specifications.

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HARBORS**

PRE-BID MEETING MINUTES

DATE: May 15, 2023

TIME: 9:00 a.m. Hawaii Standard Time (HST)

LOCATION: Tele-Conference

PROJECT: Fender Repairs at Pier 1, 2 and Tug Pier, Kahului Harbor, Maui, Hawaii
Job S30215

ATTENDEES:

Name:	Organization/Company:	Email:
Gregg Hirokawa	Department of Transportation, Harbors	gregg.hirokawa@hawaii.gov
Grant Okunaga	MKE Associates LLC	grant@mkellc.com
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Ryan Arfman	Sea Engineering, Inc.	rarfman@seaengineering.com
Russell Luke	Sea Engineering, Inc.	rluke@seaengineering.com

I. INTRODUCTION

Attendees introduced themselves (name and company).

II. IMPORTANT ITEMS

1. This meeting is to clarify general questions only. If there is a conflict between what was stated in this meeting and the bid documents, the bid documents shall govern. Any significant changes will be issued through an addendum. A copy of the meeting minutes will be issued to all attendees.
2. Deadline for questions is 9:00 a.m. HST on May 22, 2023. Questions and responses will be published on May 24, 2023.

All questions must be submitted through HiePRO.

3. Proposals due on June 5, 2023, at 2:00 p.m. HST.
4. The scope of work consists of replacing portions of the timber fender systems and repairing concrete spalls in the vicinity of the fender work at Piers 1 and 2. Work also includes the replacement of tire fenders at the Tug Pier.
5. The estimated cost is \$1,000,000 to \$2,000,000.
6. Key Information
 - a. **Bidders must possess a valid State of Hawaii General Engineering Contractor's "A" license at the time of bidding.**
 - b. The Contractor should not expect a five-day continuous work week and weekend and night work may be required. The Contractor cannot work when a cruise ship is docked at Pier 1.
 - c. Existing timber fenders are assumed to be treated with creosote. The Contractor shall take appropriate precautions when handling, removing and disposing of the existing fender systems.
 - d. Revised drawings will be issued with Addendum No. 1.

III. GENERAL DISCUSSIONS

1. Question: Has the State coordinated with Young Brothers, LLC (YB), regarding shutdown of the project area at Pier 2 for the fender repair work?

Response: The State will coordinate with YB to allow shutdown of the project area at Pier 2 for the fender repair work.

2. Question: Can you provide the existing tire fender sizes?

Response: Tire sizes are provided on revised drawings issued in Addendum No. 1.

3. Question: What is included in the 250 calendar days listed in the Completion Time? This may not be adequate for delivery of molded lumber.

Response: Completion time includes submittal time and construction delivery time. Delays due to longer than expected delivery time of materials will be addressed during construction.

4. Question: What changes can we expect on the revised Addendum?

Response: The general scope of the fender work will be the same. Repair limits and details will be revised.