

Request for Proposals (“RFP”)

Supply of Floating Docks and Ramp for the Sheffield Street Town Dock Old Saybrook, Connecticut

1. Summary and Background

The Town of Old Saybrook Connecticut, Harbor Management Commission (“OSHMC”) is currently accepting proposals for the supply of Floating Docks and a Ramp to replace an existing town owned dinghy dock located at the end of Sheffield Street in Old Saybrook. Proposals shall include the fabrication and delivery of floating docks and an aluminium ramp. The unloading and installation of the floating docks and ramp will be performed by others. It is anticipated that the delivery of the floating docks and ramp shall be in the spring of 2020.

This Request for Proposal (RFP) is intended to solicit proposals from various qualified organizations, conduct a fair and extensive evaluation based on criteria listed herein, and select the qualified organization who provides the highest quality/ value at the lowest cost and is consistent with the Scope of Work and requirements contained within.

The Old Saybrook Harbor Management Commission is an elected commission charged with overseeing the harbor and waterfront facilities of the Town of Old Saybrook, Connecticut. Any decisions and awards made by the Town of Old Saybrook Harbor Management Commission are subject to the further approval of the Board of Selectmen of the Town of Old Saybrook.

2. Proposal Guidelines

This RFP represents the requirements for an open and competitive process. Proposals will be accepted until 4:30pm EST May 3, 2019. Any proposals received after this date and time will not be considered for this project. All proposals must be signed by an official agent or representative of the company submitting the proposal.

If the organization submitting a proposal must procure or subcontract any work to meet the requirements contained herein, this must be clearly stated in the proposal.

Purchase Order terms and conditions will be negotiated upon selection of the winning bidder for this RFP. All contractual terms and conditions will be subject to review by Old Saybrook Board of Selectmen who have the final authority to approve this Purchase Order. This final authority includes scope, budget, schedule, and other necessary items pertaining to the project.

3. Project Scope / Scope of Supply

The base scope of this RFP is as follows:

The intent of the project is to provide floating docks for the use of launching/hauling dinghies as well as the loading and unloading of small watercraft. The OSHMC is seeking a qualified firm to provide a proposed dock design to achieve this goal utilizing the space outlined in red below. The existing fixed pier (highlighted in blue) is to remain in place at this time but may be replaced with floating docks at a later date. The OSHMC is planning on raising the existing bulkhead in the late Fall of 2019 / Winter of 2019 – 2020 prior to the installation of the new floating docks. Proposed designs shall assume a final bulkhead elevation of 6.7'. The OSHMC will be responsible for obtaining regulatory permits and the installation of the docks.

Proposed designs must:

- fit within the area designated “Dinghy Dock Area” (Approximately 40’ x 27’)



- Provide an area of low freeboard docks or alternative for ease of launching/hauling dinghies.
- Include appropriately sized aluminium gangway and shall not be not shorter than 30 feet.
- Design shall consider the future replacement of the main dock which can be incorporated into this proposal but is unlikely to be considered until a later date.
- Docks and gangway shall be designed to allow for seasonal removed (i.e. lift hooks, manageable sizes).
- The design shall comply with ADA standards to the extent practicable.
- The proposed docks and gangway shall meet the or exceed the requirements contained in Exhibit A and B

Upon receipt of bids the OSHMC will short list firms it feels provides the best design at the greatest value. A pre-award meeting will be held with short listed firms to discuss their proposed design and potential modifications.

5. Request for Proposal and Project Timeline

Prior to the due date of this RFP the Old Saybrook Harbor Management Commission will make reasonable efforts to answer any questions prospective bidders may have. Question must be submitted in writing by April 24, 2019. All proposals in response to this RFP are due no later than 4:30pm EST May 3, 2019.

Upon receipt of bids the OSHMC will short list firms it feels provides the best design at the greatest value. A pre-award meeting will be held with short listed firms to discuss their proposed design and potential modifications

The selection decision for the winning bidder will be made no later than July 15, 2019 at which time a notice to proceed will be issued. The Commission wishes the docks and ramp to be delivered in the Spring of 2020. The proposal should specify the date the bidder proposes to deliver the docks and ramp. .

6. Project Price and Payments

All proposals must include the bidder's proposed prices for each major item included in the proposal.

Payments will be made upon completion and delivery of each item. Invoices must be submitted on the first Monday of each month so that they can be approved at the regular Harbor Management Commission Meeting held on the second Monday of each month. Payment shall be made upon delivery and inspection of the docks and ramps. A 10% retainage will be held on all payments until final acceptance of the project. Lien and claim waivers will be required for all payments.

7. Miscellaneous Requirements.

With your proposal provide a description and duration of the product warranty..

All changes to the work must be submitted in writing by the Contractor and agreed by the Harbor Commission prior to being implemented.

8. Bidder Qualifications

Bidders should provide the following items as part of their proposal for consideration:

- Description of experience with the fabrication of floating docks and ramps including references.
- Provide examples of similar dinghy dock projects that your firm has successfully completed.

9. Proposal Evaluation Criteria

The Old Saybrook Harbor Management Commission will evaluate all proposals based on the following criteria. The OSHMC will be evaluating the proposals to determine which proposed designs achieve the goals of the OSHMC at the best value. To ensure consideration for this Request for Proposal, your proposal should be complete and include all of the following criteria:

- Cost and Value: Bidders will be evaluated on the cost of the proposed design bids and the overall value
- Schedule: The proposed delivery date submitted by the bidder
- Technical expertise and experience: Bidders must provide descriptions and documentation

10. Proposal Submittal Deadline

All proposals shall be submitted by May 3, 2019 at 4:30pm EST to the following location:

**Old Saybrook Harbor Management Commission
C/O First Selectmen's Office
Town Hall
302 Main Street
Old Saybrook, CT 06475**

“Sheffield Street Dock Proposal” should be clearly printed in the lower left of the envelope. The Old Saybrook Harbor Management Commission and the Board of Selectman reserves its right to reject any and all Proposals for not being responsive to this RFP. In addition, the Old Saybrook Harbor Management Commission and the Board of Selectman reserves its right to reject and rebid the Project if in its sole discretion, rebidding would result in better value for the Town.

EXHIBIT A - FLOATING MARINA PIER SPECIFICATIONS

PART 1: GENERAL

1.1 WORK INCLUDED

- A. Complete pre-engineered floating dock system, access ramps and pile locations.

1.2 APPLICABLE STANDARDS

- A. National Forest Products Association (NFPA) "National Design Specifications for Wood Construction"
- B. West Coast Lumber Inspection Bureau: Grading and dressing rules for lumber
- C. American Wood Preservers' Associations Standards C1 and C18
- D. American Institute of Steel Construction
- E. American Society for Testing Materials:
 - A36 Specifications for structural steel
 - A123 Specification for zinc coatings on iron and steel products
 - A153 Specification for zinc coatings on iron and steel hardware

1.3 EXPERIENCE

The floating dock system manufacturer and access ramps shall have a minimum of ten years' experience in the manufacture of floating dock systems, that are the same type as proposed for this project, on at least three other installations.

Docks shall be completely fabricated in the manufacturers facility and shipped to site complete with decking and flotation attached, ready for off-load. Knocked down framing systems assembled at site will not be allowed, panelized decking systems will not be allowed.

1.4 SUBMITTALS

- A. A general layout drawing of the proposed floating structures giving all dimensions, clearances and anchorage locations.
- B. Detailed fabrication drawings showing details of dock units to be supplied

PART II: PRODUCTS:

2.1 DESIGN AND LOAD CONDITIONS

- A. Vertical Loads:

- 1) Dead loads shall consist of the entire weight of the floating structure, including utilities, ramps, dock boxes and other accessories and appurtenances.
- 2) Deck surface and structural frame live load shall be equal to 50 PSF applied to the full surface area of the deck.
- 3) Bridges and ramps four feet (4') in width or less shall be designed for 40 PSF applied to the full surface area and 80 PSF for widths over four feet. Bridge and ramp handrails shall be designed for a 200 pound load applied in any direction and at any point along the handrail.
- 4) Flotation shall be designed to support the dead load plus 30 PSF live load applied to the full area of the deck surface.
- 5) Concentrated live load: 400 lbs at any one point on the deck shall not tilt the dock more than six degrees from horizontal.
- 6) All docks complete with accessories shall float level.

Note: Higher live loads may be specified depending on conditions and traffic.

B. Horizontal loads

- 1) A uniform horizontal wind loading from any direction shall be calculated at 15 PSF on all projected surfaces, assuming 100% boat occupancy. Craft profile heights shall be determined from Figure 4-9, page 106, ASCE Report No. 50 revised. Full wind load is to be applied to all unshielded dock and boat profiles and 10% of the wind load is to be applied to each shielded boat profile.
- 2) A horizontal load due to impact on a finger dock shall be the result of the largest berthed craft normally using the adjacent slip striking the end of the finger dock 10 degrees (10) off center line. For purposes of calculations, the weight of the craft shall be 12 times the finger length squared (12L). The craft shall be considered moving at a speed of 3 FPS.

C. Ice: Structures are to be designed to withstand the forces of non-moving ice.

D. Waves: This structure and system shall be designed to withstand storm conditions of up to 1.5' waves on a periodic, but not continual basis.

2.2 MATERIALS AND CONSTRUCTION

A. Wood Framing:

- 1) All structural beams, bracing and deck supports to be Southern Yellow Pine, Grade #1 or better exterior, and grade #2 or better interior, in accordance with the rules of the West Coast Bureau of Timber Grade and Inspection for Southern Yellow Pine. Individual

members shall be minimum 2" x 6" for horizontal members and 2" x 8" for vertical members.

2) All decking to be Southern Yellow Pine, 2" x 6" Grade # 1 or better. Pressure treatment for use category 4B. 4C in accordance with AWPA use category system. Decking options could include IPE or Composite.

3) All framing lumber to be pressure treated to 0.6 PCF retention with chromated copper arsenate (CCA). Treatment shall be full length under pressure by the empty-cell or full-cell process in accordance with AWPA Standards C1 and C18 decking

4) All lumber to be kiln dried after treatment.

5) All lumber shall be sound, well seasoned, and straight grained, free from shakes and large or loose knots and shall have no defects which will impair its strength or durability for the purpose intended.

6) All structural side beams to be of mechanical laminated construction, minimum 3 members, minimum size of each member to be 2" x 8" with a 2" x 10" outer member.

7) All lumber to be surfaced four sides.

B. Flotation:

1) All units will be rotationally molded for seamless one piece construction.

2) Encasement shall be manufactured from linear virgin polyethylene resin containing UV ray inhibitors and carbon black pigment. Nominal wall thickness shall be .150".

3) Foam Core shall be expanded polystyrene foam with a minimum of 1.0 #per cubic foot density.

C. Flotation Performance:

Flotation units shall be designed to maintain the desired buoyancy and freeboard even if punctured or cracked. Flotation unit and frame to act as one integral unit.

D. Steel Components:

All structural steel connectors, brackets and miscellaneous parts to be fabricated from ASTM A 36 grade steel, installed and fastened in factory before shipping.

E. Bolts, Nuts and Washers:

All bolts, nuts and washers shall be fabricated according to ASTM A 307 and shall be of sufficient size, shape and length for their intended use. Flotation fasteners to be minimum 1/2" diameter.

F. Finish of Steel and Bolts:

All structural steel, all bolts, nuts and washers shall be hot dipped galvanized in accordance to ASTM A 123. A minimum coating of 2 ounces per square foot shall be applied.

G. Deck:

All deck shall be Southern Yellow Pine, grade #1, surfaced four sides and shall conform to Southern Yellow Pine Inspection Bureau rules. No opening in the deck surface shall exceed 3/16" in width. All decking planks shall be fastened individually with #10 stainless steel torx drive screws, two per joist, for structural integrity, length varies based on decking but 2.5" minimum length is required on decking. Full width utility deck access panels (4 planks) shall be provided every 10' – 12' of main dock length.

Note: Optional surfaces available such as IPE Hardwood and Composites

H. Cleats:

All cleats shall be 10", 12", or 14" malleable cast iron, conforming to ASTM A 47. Cleats shall be fastened to interior steel angle with 2 - 3/8" diameter through bolts.

Note: Other sizes and styles available.

I. Dock Bumper:

Dock bumper shall be non-marring white or black extruded vinyl 3.5" wide minimum. Dock bumper shall meet or exceed the following:

Durometer Hardness - 89

Specific Gravity - 1.368

Brittleness Temperature- -20F

(ASTM 746052T)

Dock bumper shall be fastened to dock frame with 1" x 7/8" stainless steel staples 6" on center. Optional stainless steel screw fasteners available.

Exhibit B Ramps and Gangways

PART 1- General

1.01 - DESCRIPTION

- A. Furnish and install hinged gangways, and associated appurtenances of any design complying with the requirements listed herein and as shown on the Contract Drawings.

1.04 - SUBMITTALS:

- A. Shop Drawings of the gangways, installation and operating equipment
- B. The manufacturer shall submit a warranty against defects in workmanship for a five-year duration from the date of acceptance. The gangway manufacturer shall submit proof of continuous production of ramps for at least 10 years.

PART 2 - MATERIALS

- 2.01 - THE GANGWAY AND ASSOCIATED APPURTENANCES, except as otherwise indicated, shall be manufactured from aluminum alloy, alloy stock, and sections conforming to Federal Specification QQ-A-371. Aluminum Alloy Products shall conform to ASTM B 209 for sheet plate, ASTM B 308 for extrusions and ASTM B 26/B 26M or ASTM B 108 for castings, as applicable. Provide aluminum extrusions at least 1/8 inch thick and aluminum plate or sheet at least 0.050 inch thick. All ends shall be closed / capped and all welds continuous using MIG and ground smooth. Splices shall be kept to a minimum.
- 2.02 - THE GANGWAY DECKING shall be non-skid FS RR-G-1602, open-type grating, aluminum ASTM B 209, 6061-T6. Clear width of decking shall be a minimum 6 feet to the inside of the safety rail. Maximum slot interval shall be determined by the supplier and decking shall be perpendicular to the ramp width and welded to each supporting member, threaded at the ends with nuts and cotter pins with stainless steel pins.
- 2.03 - RAILINGS: Railings shall consist of nominal schedule 40 pipe ASTM B 429 of the minimum sizes indicated. Railings shall be mill finish aluminum color. All fasteners shall be Series 316 stainless steel.
- 2.04 - HINGE BAR FLANGES, PIPE SLEEVES, WASHERS AND ACCESSORIES
 - A. Hinges shall be continuous for the full ramp width.

- B. AISI Type 316 stainless steel conforming to AISI SHRS.
- C. Ramp guide tracks shall not be used on the floating pier deck.
- D. Dual gangway rollers shall be 2 1/2 inch, outer diameter, 10 inch long made of nylon or UHMW Polyethylene with stainless steel through rods, nut, washers and other pins.

2.06 - DISSIMILAR MATERIALS

Where dissimilar metals are in contact, protect surfaces with a coat conforming to FS TI-P-664 to prevent galvanic or corrosive action. Where aluminum is in contact with concrete, mortar, masonry, wood, or absorptive materials subject to wetting, protect with ASTM D 1187, asphalt-base emulsion.

2.07 DESIGN LOADS

- A. Deck Vertical Live Load - The decking and support system for the ramp shall be designed and constructed for a live load of 100 psf applied to the full deck surface with a maximum deflection of $L/180$ where "L" is the gangway length.
- B. Safety Rail - 2 1/2 inch outer diameter minimum Schedule 40 pipe. Minimum 42 inches above deck.
 - 1. Safety rails shall be designed and constructed for a concentrated load of 200 pounds applied at any point and in any direction along the rail system.
 - 2. The safety rail shall be designed and constructed to simultaneously handle a uniform horizontal live load of 50 pounds per linear foot and uniform vertical live load of 100 pounds per linear foot, both applied perpendicular to the rail.
 - 3. The concentrated 200 pound force does not have to be accommodated simultaneously with the uniform live loads.
 - 4. Top safety rail shall return down to the ramp frame.
- C. Hand Rail - 1 1/4 to 1 1/2 inch outer diameter pipe, top of rail height, 34 inches.
 - 1. The hand rails shall be designed and constructed to handle a 200-pound concentrated load applied at any point and in any direction.
 - 2. The hand rail shall be designed and constructed to handle a 50-pound uniform live load in any direction.
 - 3. The concentrated 200 pound force does not have to be accommodated simultaneously with the uniform live loads.
 - 4. Top safety rail shall return down to the tube frame and rigidly mounted by bolts or welding to the safety rail frame and again 12 inches beyond the decking.

PART 3 EXECUTION

3.01 The gangway shall be provided complete with stanchions, railings, hinge attachment plates, connection/hinges, connection / hinge covers as necessary and transition plates on the float.

- A. The gangway shall be installed by others after the floating pier is installed.

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- B. ¼" -inch maximum thickness aluminum or stainless steel wearing plate with beveled edges shall be fastened to floating pier by others but supplied by the supplier. Locate plate to be centered in the full range of gangway travel.