UMass Boston Waterfront
‘at a glance’
Fox Point Pavilion

- Over the years, the Fox Point Landing has been a rest area, an outdoor classroom and a general meeting place for students, staff and faculty of the University. This structure caters to the needs of students, staff, faculty, Marine Operations customers and people taking a walk along the Harbor walk.
The John T. Fallon State Pier, located at the John F. Kennedy Library on Columbia Point. This is a full service, seasonal facility including: Shore power, fresh water, 3-1/2 ton crane service, security and lighting, two 100ft floats with gangways, 171ft large vessel dock face, and dredged access channel (-13ft MLW).
Fox Point Landing

This commercial and recreational marine facility consists of 2 main (strong back) floats with 4 – 50ft steel finger floats off of these. One of these fingers is a Quarterbarge or boat house capable of meeting the storage needs of 4 separate entities. Presently these divided spaces are utilized by: 2 – Sailing; 1 – Marine Operations; 1 – EEOS Dept. The type of floats that make up this system are a compilation of steel barge with wood framing top, some dating 30 years old, with the newest floats at 20 years old.

The original smaller facility was chain moored and located 200yds to the west of it present location. The present system was licensed and enhanced with steel pilings in 2002.

In 2007 the cove and fairway leading to the dock was dredged to a navigable depth of +/- 8ft at mean low water. This dredging has enhanced water circulation and flushing to Savin Hill Cove as well as permitted transit of fixed keel boats in/out of the facility at any tide range.
Fox Point Dock

Fox Point docking facility is a year-round, multi-purpose facility located in Savin Hill Cove (between Wheatley and McCormack towards the water). The basin is weather protected and offers an 80ft. main float with two 60ft finger floats for smaller vessels. Docking here is available for vessels up to 5ft draft. This facility is fortified with steel pilings, shore power, security gate and safety lighting.
Fox Point Float Replacement

Narrative:
Storm Damage 01.19.06 to Fox Point: 30-40 miles per hours winds out of the South East for 3 hours 1200-1500, during high tide, gusts up to 70 miles/hour. Problem began with Southeastern most steel pile collar tore away from the floating steel float. The pile collar ripped away from float creating a hole just above water line, with the wave action the float pitched and yawed dipping the hole into the water and ultimately filling the float. The first float sank quickly putting a lot of strain on the adjoining float and the mating hardware. We were unable to dislodge the second pontoon float from the now sunken float as this was now the only thing holding up the sunk float and the mating pins holding them together were jammed (see Slide #10). For the next hour the second float sustained damage until the storm subsided.

Repairs:
BTT Inc. (Marine Contractor) on scene 01.20.06 w/crane barge and tug; 01.20.06 2 lost moorings recovered by diving; pile collar caught under float but marked; photo's taken from above and below water. Float salvage completed on 1.24.06. DMO (Division of Marine Operations) welded plate on a pile collar end and replaced pile collar. 3 moorings and lost pile collar recovered on 1.31.06 by DMO divers.

Summer 2007, DMO staff notice a significant loss in buoyancy of the damaged floats (see Slide #15) when more than 10 people stand on them, this poses a safety concern as these floats sink with added weight.

Temporary repairs performed on 10.05.07 - DMO staff construct 4 wood cradles to contain 1 - 55 gal plastic sealed barrel each. The cradles were fastened under the damaged floats by DMO divers, then the barrels were flooded and put into position in the cradles, the barrels were then filled with air and sealed. Each barrel has a positive buoyancy of approximately 500psi.
 Costs:  

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
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<tbody>
<tr>
<td>2 - steel floats submerged</td>
<td>$92,000</td>
</tr>
<tr>
<td>1- wood/steel pontoon float submerged</td>
<td>$6,000</td>
</tr>
<tr>
<td>2- power posts destroyed: Model #SPC36-4A</td>
<td>$5,000</td>
</tr>
<tr>
<td>3 - mooring anchors lost w/chain; size</td>
<td>$500</td>
</tr>
<tr>
<td>Wood planking damaged/missing:</td>
<td>$400</td>
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<tr>
<td>mooring lines parted</td>
<td>$100</td>
</tr>
<tr>
<td>Cleats lost: 6 – 10”</td>
<td>$100</td>
</tr>
<tr>
<td>1-Cell phone</td>
<td>$300</td>
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<tr>
<td>4 – 55 gal plastic barrels</td>
<td>$200</td>
</tr>
<tr>
<td>Marine Contractor (Emergency salvage - Feb 06)</td>
<td>$8,225</td>
</tr>
<tr>
<td>*Marine Contractor (re-set pilings -April 08)</td>
<td>$10,000</td>
</tr>
<tr>
<td>FY 07 Budget appropriation</td>
<td>$(30,000)</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>$122,825</strong></td>
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Funds has been spent from our Auxiliary account to cover the costs above with the exception of the $92,000. We received $30,000 thru the budget process last year to perform a design/study for a new facility. At this time we feel there is a more urgent safety need to replace the 2 most damaged floats (barges) with new ones, we would do this by using the $30,000 and ask for an additional **$72,000 in capital funding** to cover the short fall of the $92,000 (barge bid) plus $10,000 to hire a *Marine Contractor to re-set 4 pilings.
Bid No. C508CH-0911
Date: November 15, 2007

Deliver: University of Massachusetts
Receiving Dept.: Purchasing
100 Monterey Way
Boston, MA 02125

Attn: Maria Sweeney

Proposal

University of Massachusetts Boston
Procurement Department
100 Monterey Way
Boston, MA 02125-3191
617-267-3546

Massachusetts Institute of Technology
1 Cape Street
New Bedford, MA 02740

Proposal

No. 20

Description

1.
2 Ea. - Proposal for Barge specifications or approved equal in accordance with the attached specifications sheet (2).

All prices are F.O.R. Destination, delivery free of all charges to University of Massachusetts Boston at a location specified on the purchase order.

ALL BIDDERS MUST CLEARLY STATE THE TERMS AND CONDITIONS OF THE MANUFACTURER’S AND/OR DEALER’S WARRANTY AND GUARANTEE.

Please direct all questions regarding this bid to Maria Sweeney in Purchasing Operations @ 617-267-5408 or Email: maria.sweeney@umb.edu

Preceding Delivery: 60 Days After Receipt of Order

The order will be held open for acceptance and guaranteed firm for the Purchasing Agent reserves the right to accept or reject any or all bids, any part of a bid or any item in whole or part. The award of the contract is subject to the submission by the University of Massachusetts Boston of a written form of agreement. The Massachusetts state exemption may be claimed.

Other terms may include any fees, taxes, or charges.

By signing this proposal, the contractor agrees to the terms and conditions.

Authorized Signature:

Total: $53,000.00
Day after storm; end floats are submerged out of picture
2 steel floats completely submerged (normally connected to black pilings and end connection of 1 pontoon float still connected)
Pontoon float shown stressed with weight of submerged floats
Marine Contractor on scene 2 days after storm to salvage floats.
End floats shown re-floated and stable
Fox Point today after temporary repair measures performed on 10.05.07
Fox Point Dockage

Red Area – submerges when more than 10pp gather
UMass Boston Waterfront

“The Next Wave”
Visitors/Research Center

- Having a visible building on the water’s edge is key to establishing a beachhead for marine research. This building would have many functions, at its core it would serve as a Visitors Center where there would be permanent displays showcasing the History of Columbia Point from the transformation of Kelly’s landfill into the University park it is today. Revolving exhibits could include community initiatives from the varied community groups in our area.

- Faculty research projects on display could focus on finding solutions to real-world problems and integrating these efforts into the classroom. A marine science Visitor Center would create a unique, dynamic environment for lifelong exploration and discovery. The Visitor Center would encourage adults and children to enjoy marine science; the exhibits and programs could explain how scientific research enhances our ability to interpret the natural patterns that shape our world and enables us to better appreciate, manage, and sustain coastal marine resources. With a flow through salt water system interactive touching pools, aquaculture projects and marine animal life cycle demonstrations would be possible.
Urban Field Station; Environmental Education Center; Exhibit Space

1. Classrooms: 2,000
2. Exhibit Space: 3,000
3. Laboratory: 3,000
4. Kitchen, lavatories, storage: 500

Scale: 1" = 10 ft
Marina Facility

- The Visitor Center along with an enhanced Marina facility could provide opportunities for conducting research on devices, methods, and concepts for informal science education that will advance the art of public education.

- A new two part Marina Facility, with a commercial side that could facilitate buoy deployment, remote sensing, autonomous underwater vehicle testing and chartering would serve as a catalyst for marine research activities as well as attract the neighboring scientific community. A Water Sports side with activities such as Sailing, Sea Kayak tours, and Kite Sailing would provide recreational activities for our students and community alike.