

**Maine Maritime Academy
Castine, Maine**

**Pier Upgrades and Waterfront Improvements Project
April 5, 2024
ADDENDUM NO. 10**

Prospective bidders and all concerned are hereby advised of the following changes/modifications in the Maine Maritime Academy Waterfront Campus Pier Upgrades and Waterfront Improvements Issued-for-Bidding Drawings and Project Manual dated January 26, 2024 and are hereby requested to change their copies accordingly.

Addendum No. 10 consists of 7 pages of Response to Questions. Addendum No. 10 addresses some of the bidder questions received. Subsequent addendum will address the outstanding bidder questions and revisions to the IFB Drawing Set and the IFB Project Manual.

Submit written questions during the bid phase via email to Jake Jacobs with cc to Cheryl Coviello.

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Cheryl.Coviello@gza.com

Make the following changes to the Bidding Documents, Project Manual and Specifications:

REVISION TO ADDENDA

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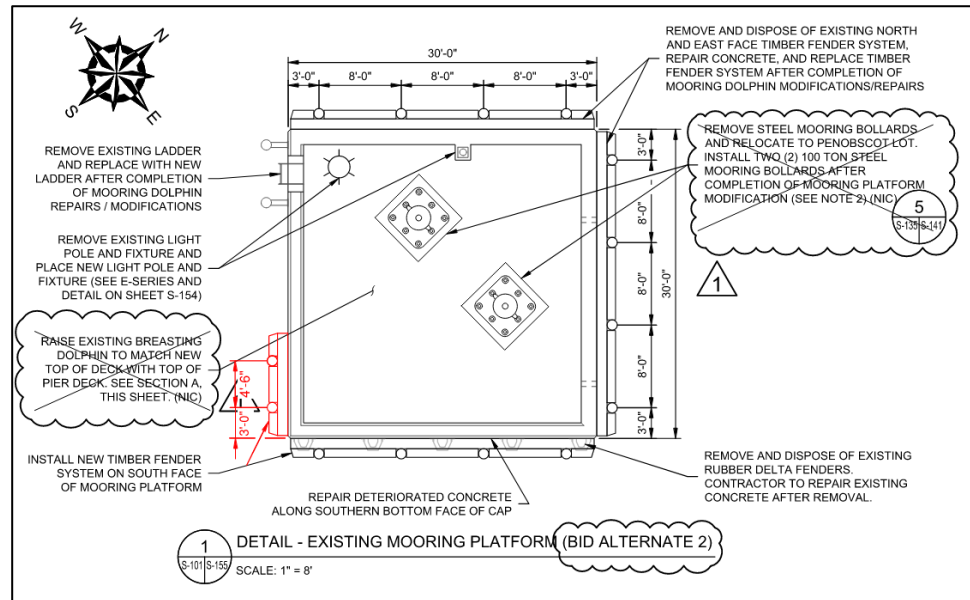
RESPONSE TO GENERAL QUESTIONS

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RESPONSE TO IFB DRAWINGS QUESTIONS

1. IFB Drawing S-113: Please clarify quantity and layout of timber fender piles on the existing breasting and mooring platforms. Layout drawing S-113 does not align with drawing S-155.

Response 1: **ADD** 2 timber fender piles to the south face of the Existing Mooring Platform in Detail 1 on Drawing S-155.



2. IFB Drawing S-114: The Legend on Sheet S-114 indicate Pier Pile which are battered with a 20' Rock Anchor and 5' Rock Socket, the pile table on sheet S-134 shows 0ft of rock socket for piles with a 20' Rock Anchor. Please clarify which is correct.

Response 2: Battered Pier Piles with a 20' Rock Anchor shall have a 5' Rock Socket. See Addendum 7 re-issued IFB Drawing S-134.

3. IFB S-116: The table with quantities of each type of deck plank does not correspond with the actual number of each plank depicted in the drawing. Please verify if the table or drawing contains the correct quantities.

Response 3: See Addendum 7 re-issued IFB Drawing S-116.

4. IFB S-116: Please provide dimensions for the following deck planks on drawing S-116, AA, AA', GG, HH and II.

Response 4: See Addendum 7 re-issued IFB Drawing S-116.

5. IFB S-118: Section-South Edge Beam and Bollard indicates the use of a 150 Ton Mooring Bollard. Is this a misprint??

Response 5: Pier Bollards shall be 100-Ton Bollards.

On Drawing S-118, rev 1, 3/22/2024, in Section B/S-118/ - , **REPLACE "150-TON"** with "100-TON".

6. IFB S-118 & S-113: Callout on to the bollards on S-118 says 150 ton bollards while the callout on S-113 says 100 ton bollards, please clarify which are required.

Response 6: Pier Bollards shall be 100-Ton Bollards.

On Drawing S-118, rev 1, 3/22/2024, in Section B/S-118/ - , **REPLACE** "150-TON" with "100-TON".

7. IFB Drawing S-133: Please clarify whether concrete plugs are required at the pile socket for pier piles which do not require rock anchors. If so, please specify depth of plug required.

Response 7: The concrete plug in Specification 31 62 23.13, Table 1.2 is the 8' long concrete plug at the top of all pier piles. Pier piles with 5-ft rock sockets require neat cement grout to extend above the bottom of the pipe pile at the time of the rock anchor installation. A neat cement grout plug prior to the rock anchor installation is not required to be placed at the bottom of the pipe pile. See Addendum 6, Response 35 for clarification on the neat cement grout plug at the dolphin piles with 6" rock sockets. See the attached reissued drawings.

8. IFB S-154: What are the thicknesses and lengths of the Electrical and Mechanical precast covers?

Response 8: Electrical and mechanical precast cover thicknesses shall be as shown in the Drawings. Lengths shall be 5 feet except for where the pier stem meets the bulkhead and where the mechanical trench turns a corner.

9. IFB S-154: What size rebar is called out on the Electrical and Mechanical precast covers?

Response 9: See Addendum 7 re-issued IFB Drawing S-154.

10. IFB S-154: Please provide a schedule of pre-cast concrete trench and pre-cast concrete cover dimensions and piece counts similar to what was provided for the Deck Plank Schedule on S-116.

Response 10: Trench Lengths shall be two inches less than the pile cap spacing. Trench covers lengths shall be 5 feet, with the exception of covers at the pier connection with the bulkhead and where the mechanical trench makes a turn.

11. IFB Drawing S-155: Spec call to re-use (2) 100-Ton Mooring bollards if acceptable after inspection. What if they are not acceptable?

Response 11: All 100-Ton Bollards shall be relocated off site per Addendum 7 IFB Drawing S-155.

12. IFB S-155: Mooring and Breasting Platforms S-155: Is there any information available on the existing pile wraps that need to be removed?

Response 12: All available information on the existing pile wraps on the Mooring and Breasting Platforms is located in the Maine Maritime Academy Waterfront Contract No.1 - Cathodic Protection and Pile Wrap reference drawing from T.Y.Lin International.

13. IFB Drawing S-155: We are still looking through historical documents for information regarding the pile wraps that are currently in place. If not available, any information regarding this will be crucial.

Response 13: All available information on the existing pile wraps on the Mooring and Breasting Platforms is located in the Maine Maritime Academy Waterfront Contract No.1 - Cathodic Protection and Pile Wrap reference drawing from T.Y.Lin International

14. IFB Drawing S-165: The sections on Sheets S-165 & S-166 Show all piles having a minimum of a 6" rock socket, with the Piles for the East Dolphin shown in Section C on Sheet S-166 having a 5' Rock Socket. The Table on S-165 Shows only a 5ft rock socket for the East Dolphin Piles and a 0ft Socket for the remaining Dolphin Piles. Please clarify.

Response 14: West Dolphin #1 and West Dolphin #2 shall have 0.5' rock sockets. East Dolphin piles shall have 5 ft rock sockets. See Addendum 7 re-issued IFB Drawing S-165.

15. IFB S-176: The Floating Breakwater Plan and Sections call for 30" x 1" Pipe piles for the Floating Breakwater. This represents a significant tooling and set up cost for the installation of 11 pipe pile where the remaining structural pile on the project are 24" diameter. Would the engineer consider the use of 24" x 5/8" pipe in lieu of the 30" pile shown in order to match the rest of pile on the project?

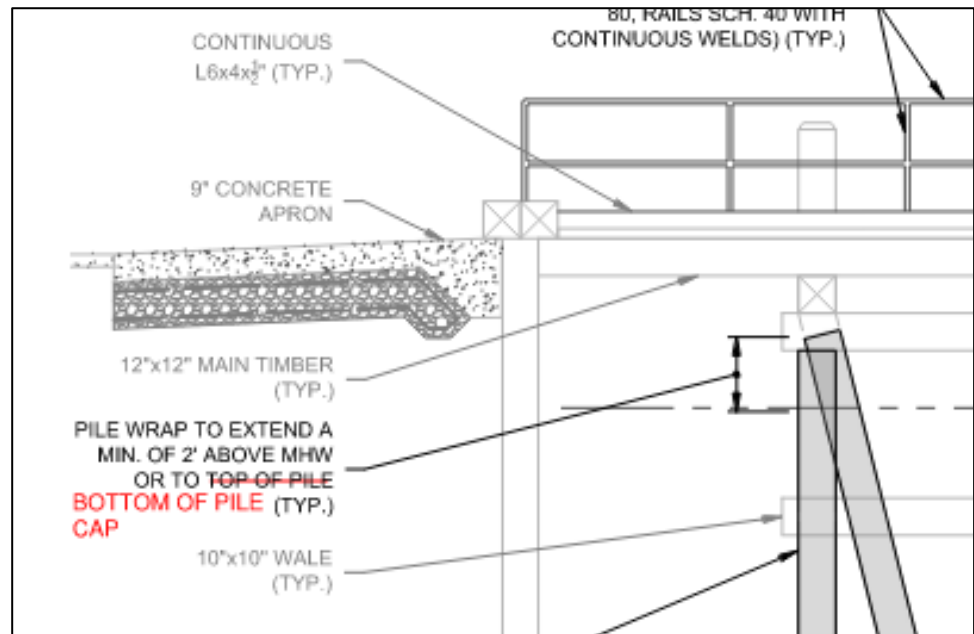
Response 15: The floating breakwater shall be 30" x 1" pipe piles per IFB Drawing S-176.

16. IFB S-177: Travel Lift S-177 Is cross bracing present on any piles to be wrapped? Plans show various cross timbers and walers. Hdpe wraps will not be effective to wrap around cross bracing. Would an alternative method and material in these areas be acceptable?

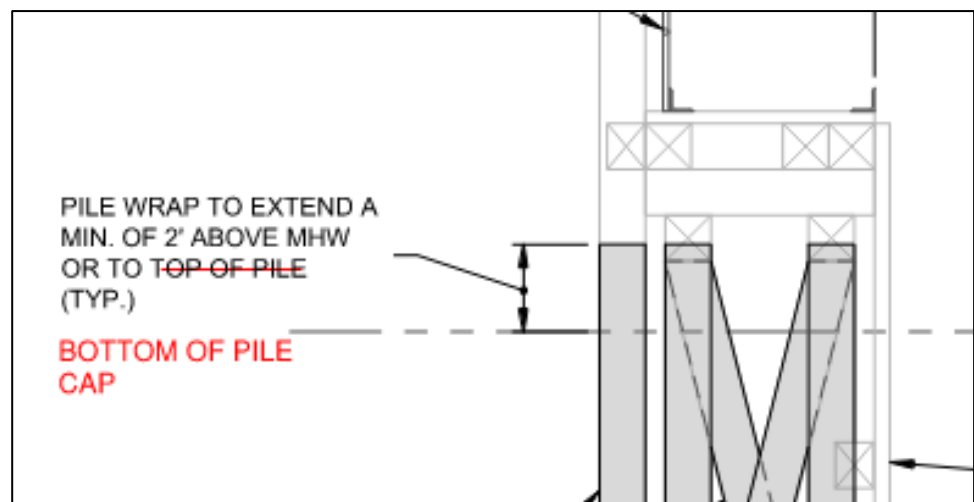
Response 16: See Response 18 below.

17. IFB S-177: Travel Lift S-177 Plans require wraps to extend a minimum of 2' above MHW. Is spacing between MHW and 12"x12" timber pile cap adequate to allow this. If not would wrapping up to the cap be acceptable?

Response 17: In Section A and Section B, in the pile wrap callout, **REPLACE** "top of pile" with "bottom of pile cap".



Excerpt of Section A



Excerpt of Section B

18. IFB S-177: S-177 shows the timber pile for the travel lift receiving a new pile wrap. Please clarify whether it is expected any bracing is to be removed and reinstalled to facilitate the installation of the new pile wrap.

Response 18: All bracing on piles receiving a pile wrap shall be removed to facilitate the installation of the new pile wraps timber. Bracing shall be replaced in kind. Refer to Reference Drawing: Waterfront Improvements Program for Maine Maritime Academy, dated 1990, by T.Y. Lin.

RESPONSE TO IFB PROJECT MANUAL QUESTIONS

19. IFB Specification Section 03 31 30: where is joint sealant used? No joints have been identified on the drawings. Please provide concrete joint plan.

Response 19: In addition to construction and control joints, joint sealant will be required along edges of concrete trench covers to provide a weather tight seal. Additional detail to be provided.

20. IFB Specification Section 03 31 30: Specification 03 31 30 Section 3.16 Part A says "Penetrating sealant is to be applied to the exposed concrete surfaces."

Does this mean all visible surfaces, including all cast-in-place and precast elements?

Response 20: Penetrating sealant to be applied to deck and curb.

21. IFB Specification Sections 03 31 30 and 03 40 00: Please clarify what concrete requires corrosion inhibitor? Precast and cast-in-place?

Response 21: Both precast and cast-in-place will require a corrosion inhibitor.

In Specification Section 03 40 00, **ADD** the following after paragraph 2.2.5.3:

"2.2.5.4. Calcium Nitrite Corrosion Inhibitor

Corrosion-Inhibiting Admixture: Calcium nitrite; commercially formulated, anodic inhibitor or mixed cathodic and anodic inhibitor; capable of forming a protective barrier and minimizing chloride reactions with steel reinforcement in concrete and complying with ASTM C494 Type C."

22. IFB Specification Sections 03 31 30 and 03 40 00: Is bonding agent required between the pre-cast deck panels and cast-in-place topping slab?

Response 22: Yes. Bonding agent will be required wherever fresh concrete is cast against a cured concrete surface.

In Specification Section 03 31 30, **ADD** the following after paragraph 3.9.C.1:

"3. Apply bonding agent to hardened concrete prior to placement of fresh concrete against hardened concrete. Apply bonding agent in strict conformance with manufacturers requirements for maximum effectiveness."

23. IFB Specification 31 62 19.15: Do the new fender piles require pile wraps?

Response 23: No.

24. IFB Specification Section 31 62 19.15: The project plans call for an additional preparation of the piles outside of the manufacturers suggestion. The additional specification is sspc-sp12/nace 5 hp-wj. Is this indeed a requirement for the preparation of steel piles requiring wraps?

Response 24: SSPC-SP12/NACE 5 HP-WJ is not a requirement for preparation of steel piles requiring wraps.

DELETE paragraph 3.1.A.3 from IFB Specification Section 31 62 19.15.

On Drawing S-155, rev 1, 3/29/2024, in Section A/S-101/S-155 and Section B/S-101/S-155, **DELETE** "RECOAT".

25. IFB Specification Section 31 62 19.15: If sspc-sp12/nace 5 hp-wj preparation is required per the contract, will step 2 still need to be performed as step 3 will eliminate the need for step 2 altogether?

Response 25: SSPC-SP12/NACE 5 HP-WJ is not a requirement for preparation of steel piles requiring wraps.

26. IFB Specification Section 31 62 23.13: Steel Pipe Piles 31 62 23.13-12 H. Tolerances and Alignment. What is the permissible horizontal deviation from vertical for Pier and Mooring Dolphin Piles. Similar project specifications allow 2%, or 1/4" per foot.

Response 26: See Addendum 7 re-issued Section 31 62 23.13 paragraph 3.6.B.1

27. IFB Specification Section 31 62 23.13: Steel Pipe Piles 31 62 23.13-12 H. Tolerances and Alignment. What is the maximum permissible lateral deviation for Pier and Mooring Dolphin Piles at cut off elevation.

Response 27: See Addendum 7 re-issued Section 31 62 23.13 paragraph 3.6.B.1.

OTHER REVISIONS TO IFB SPECIFICATIONS

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OTHER REVISIONS TO IFB DRAWINGS

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