



Andrews, Miller & Associates

A DIVISION OF DAVIS, BOWEN & FRIEDEL, INC.

ARCHITECTS ENGINEERS SURVEYORS

Contractors Questions & Answers

Date: Tuesday, August 28, 2018

Subject: **Phillips Landing Boat Ramp at Nanticoke Wildlife Area**
Contract No. NAT201801/Phillips.Landing
AMA/DBF Job no. 1945A006.B01

Prepared By: Ken Eaton, AMA/DBF

Questions received during the bid process:

1. **Question:** The plan note on C3 indicates test piles are to be 50' long. Sheet C5 indicates the base bid length of the timber and steel piles shall be 40'. Are any test piles required and if so, please identify which piles (steel or timber) are to be tested and what the driving criteria and pile testing requirements will be?

Response: *There are 2 – test piles required as shown on sheet C-3 TP #1 & TP #2 with a diamond shaped symbol as indicated in the legend on C-1.*

2. **Question:** What are the steel guide pile material specifications?
What is the steel guide pile thickness?
Are the steel guide piles filled with concrete?

Response: *The steel pile specifications are provided below:*

Materials:

Guide Pile System: Piles shall consist of steel pipe as approved by the Owner or Owner's Representative.

1. **Steel Pipe Guide Piles** shall be seamless or electrically welded pipe conforming to latest edition of ASTM A252 – Grade 2 or 3. Piles shall be 12" minimum diameter, Schedule 40 steel. The pile supplier shall furnish four copies of certified mill test reports covering chemical and physical tests conducted on the steel for each heat number of metal included in the shipment.

2. **Steel Pipe Cutting Shoe:** Cast steel open ended inside pile cutting shoe with ledge to transfer forces from shoe to pile in compression rather than shear on welds. Equal to model 0-14001 inside flanged cutting shoe as manufactured by Associated Pile and Fitting Corporation, Box 1048, Clifton, New Jersey 07014.

3. **Galvanizing:** Steel pipe guide piles shall be hot-dip galvanized in accordance with ASTM A-123. The zinc coating shall be applied to the inside and outside of the pipe, 2.0 ounces of zinc per square foot of hardware surface.

4. **Weather Guards:** Black cone shaped plastic pile caps shall be used on guide piles. The pile cap shall be molded from 3/16 inch thick, ultra-violet resistant, low density polyethylene. Caps shall be securely anchored to piles with epoxy cement.

Execution:

Guide Pile System:

1. All guide piles shall be driven by gravity, vibratory, or diesel hammer as approved by the Owner or the Owner's Representative. Any hammer which does not perform satisfactory on piles being driven, regardless of prior approval, shall be replaced by a hammer acceptable to the Owner or Owner's Representative. Driving shall be continuous without intermission until the pile has been driven to the required penetration set by the floating dock manufacturer. The quantity and location of piles shall be as shown on the floating dock manufacturers shop drawings.
2. During driving, the top of the piles shall be protected from damage by using a head or cap. The head or cap shall cover the entire surface of the top of the pile. Trimming the top of the pile to fit the cap shall be kept to a minimum. Damage to the top of the pile shall be restricted to the top 6 inches
3. After driving, the length of the pile remaining above the elevation of cutoff shall not be more than 6 inches for damaged piles. The top of the piles shall be sawed to a true plane of elevation fixed by the Drawings. Cutoff of piles shall not take place without the approval of the Owner or Owner's Representative. If the pile tops are not damaged, full length driving will be required.
4. Piles which leak, or piles which are bent, crimped, buckled or otherwise unsatisfactory as herein specified, and which cannot be repaired, shall be removed and replaced by the Contractor at no additional cost to the Owner.
5. Filling of Steel Pipe Guide Piles
 - a. The Contractor shall inspect each pile visually immediately prior to filling to ascertain that the inside of the pile is free from any organic or highly compressible material or solid matter, and from greater than a 2 inch depth of water.
 - b. The Contractor shall place sand in the steel pile through a funnel having a neck not less than 2 feet long and diameter at least two inches smaller than the inside diameter of the pile. Provide a spacer at the neck to permit escape of air during filling. Placing of sand shall be continuous and in a manner which will assure complete filling of pile. Sand shall not be placed through water unless approved by the Owner or Owner's Representative.
 - c. The Contractor may substitute concrete fill in lieu of sand fill provided there is no additional cost to the Owner and upon approval of the Owner or Owner's Representative.
3. **Question:** Please refer to Detail D on plan page D-5. Two rebar sizes are shown at different spacings. Please clarify reinforcing steel size and spacing.

Response: *The reinforcing bar in the concrete boat ramp slab shall be #4 bar, 12" o.c.e.w. (top and bottom) except as shown in the Wheel Stop detail.*

4. **Question:** Please refer to Typical Construction Joint Detail on plan page D-5. You show the reinforcing steel continuous through the joint. Can this be eliminated since you also show a #6 tie bar?

Response: *The additional lines shown in the Joint Detail are drafting guide lines that were inadvertently left showing. There is no requirement for other reinforcing bar through the joint. The #6 tie bar is sufficient for this joint.*

5. **Question:** The floating docks are shown with curbs. However, you do not show curb on the concrete portion of the boarding piers. Is this the intent?

Response: *Correct. No curbing is required on the concrete boarding pier.*

6. **Question:** Please refer to Typical Wingwall Section E on plan page D-5. The rubbing board is shown to be Oak. Can this be CCA treated SYP?

Response: *Yes, the rubbing board can be in accordance with specification section 35 31 16 (2-1) Timber.*

7. **Question:** Please refer to Typical Wingwall Section E on plan page D-5. It is understood that a timber bolt is to be installed at each pile through the wale, sheeting and liner/rubbing board. Do you want any bolts from liner/rubbing board through sheeting and wale between the piles? If so, what is the spacing?

Response: *The "Typical WB-8 Wale Plan" shown on sheet C-4 shows the bolting requirements for sheeting & wale bolts. There are no additional requirements for bolts through the liner / rubbing board through the sheeting and wale.*

8. **Question:** At the pre-bid meeting Mr. Ashe stated that all in-water work must be complete by March 1, 2019. Will DNREC consider starting this project in February 2019 to have the cofferdam complete by March 1 and then work inside the cofferdam during the Spring in-water restriction? This would mean that the project would finish by the end of June 2019.

Response: *Project must be completed by May 1 and all in water work (including removal of cofferdam) must be completed prior to March 1.*

9. **Question:** You show weep holes in the wingwalls @ 5' O.C. Please confirm the limits of weep hole installation on each wingwall. Seems like they will be useless except for the sections of wingwall on the upside of the existing bulkhead.

Response: *Weep holes are only required along the portions of the wingwall that are landward of the existing bulkhead.*

10. **Question:** Reviewing the contract drawings and there is a possible discrepancy in rebar size for the ramp slab. Section 'detail D' references a #4 bar on 12" o.c and also a #6 bar top and btm on 10" o.c.. Can you clarify.

Response: *See response to question #3.*

11. **Question:** On page 35 31 16-2 Paragraph states "Prior to ordering the piles and sheeting on (2) Forty (50) long test pile. Please confirm the quantity and length of the test piles.

Response: *Test piles are to be 50' long as indicated on drawing sheet C-3.*

12. **Question:** On the bid form there is an item for to Furnish and Install 12" Steel Guide Piles". Please provide specification for this item. Please provide a specification for the galvanized coating.

Response: *See response to question #2.*

13. **Question:** The plans and specifications do not provide a piling length to be included in the bid. Please provide a piling length to be included in the base bid.

Response: See “Typical Wingwall Section E” Note 2 and drawing sheet C-5. Base bid length for all timber and steel piles shall be 40’.

14. **Question:** Specification page 35 31 16-3 paragraph 2-3 requires carbon grade steel bolts, plate washers and NYDD washers. Paragraph “E” conflicts with this by requiring hardware to be stainless steel. Please clarify this conflicting specification.

Response: All hardware that comes in contact with any aluminum material shall be stainless steel type 18-8 (300 series) in accordance with ASTM A-193B8.

15. **Question:** The specification referenced in the question above discusses galvanized hardware but then states that hardware be stainless steel. Is the stainless steel hardware to be galvanized?

Response: Galvanized hardware is to be utilized anywhere timber components are shown. All hardware that comes in contact with any aluminum material shall be stainless steel type 18-8 (300 series) in accordance with ASTM A-193B8.

16. **Question:** Aluminum cap-details on the plan sheets show a cap that is in the form of an angle but in reality, if (it) is in the shape of a “TEE”. Please confirm the orientation of the new bulkhead to existing connection.

Response: The cap is available in 90° or 45°, as shown on the “Fabricated Cap Insert” detail on sheet C-4. Normally, one of these inserts will be suitable for most connections. A non-standard, fabricated insert & cap layout can be reviewed at the shop drawing level if required.

17. **Question:** The detail on plan sheet C-5 shows the geotextile liner penetrating the aluminum sheeting. Please provide information or details on how this can be accomplished.

Response: The details show the geotextile fabric extending to the furthestmost face of the aluminum sheeting. Due to the web shape of the sheeting, the intent of the detail is to show that it must extend completely to the face of all portions of the sheeting.

18. **Question:** The plans contain numerous references to materials on details that are marked “Detail provided by Gator Docks and Marine” but Gator does not seem to include some of the fasteners. Please provide specific information which items are supplied by Gator.

Response: The contractor shall obtain from the manufacturer any wale clips, multipurpose corners, cap sections & inserts, wale splice plates, sheet piles, etc. The Contractor is responsible for obtaining any hardware required to complete the project in accordance with the plans and specifications.

19. **Question:** On plan sheet C-4 there is a detail for “Weep Hole” these are not supplied by Gator. Please provide specific information for the pre-fabricated weep hole.

Response: Weep Holes can be obtained from any manufacturer that indicates installation in an aluminum bulkhead. Variation in the weep hole size is allowed but no smaller than a 1-1/2" diameter. Allowable manufactures are as follows:

Jet Filter: JF2.5ABS Tel: 1-800-475-2029
Blue Marlin Filter: 2" dia. Plastic Tel: 239-825-4508
Or approved equal

20. **Question:** In addition to the above, the location of the weep hole is not shown on the referenced elevation. Please provide the vertical location of the weep holes.

Response: Weep Holes shall be installed 1.25' min. below the top of the wingwall.

21. **Question:** The Documents state that the existing boat ramp is to be loaded onto trucks furnished by the Owners. Please provide the dimensions of the individual sections to be loaded onto trucks and weight of each unit. Please provide a detail illustrating the method to lift the units (I, E. rigging)

Response: There are three section of the existing aluminum floating dock system (total length of approximately 50 LF). They are similar weight to the new sections being provided. Contractor shall assume the minimum weight of each section to be 12 lbs per sq. ft. Units can be loaded with a fork type loader or with evenly spaced straps. Gator Dock does not have specific instructions for loading and unloading. Contractor shall use appropriate care and methods so as not to damage the units.

22. **Question:** The documents do not designate a location for the test pile(s). Please designate a location for the test pile(s).

Response: See response to question #1