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ADDENDA

ADDENDUM NO. 02

DATE: **January 19, 2024**

PROJECT: **MORGAN CREEK INTERCEPTOR REPLACEMENT PHASE I**

OWASA CIP NUMBER: 276-59

OWNER: **ORANGE WATER AND SEWER AUTHORITY**

ENGINEER: **McKim & Creed, Inc.**

TO: **Prospective Bidders**

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated December 2023, with amendments and additions noted herein below.

Acknowledge receipt of this Addendum in the space provided in the Bid form. Failure to do so may disqualify the Bidder.

This Addendum consists of 2 pages.

CLARIFICATIONS:

1. Gravity sewer pipe installed inside 50-feet from the top of bank shall meet water main standards. Additionally, all pipe installed inside 50-feet from the top of bank shall be field tested utilizing Specification Section 02611 Fiberglass Gravity Sewer Pipe (FRPM).

CHANGES TO THE SPECIFICATIONS:

1. Add the following as paragraph 3.1.E.5 to Specification Section 02611 Fiberglass Gravity Sewer Pipe (FRPM):

   3.1.E.5 Hydrostatic Testing
   i. Gravity sewers segments between manholes, where any portion of the pipe is within 50-feet of the top of bank, shall be hydrostatically tested (from manhole to manhole) prior to being placed into service. Hydrostatic pressure testing requirements of gravity sewer lines will vary between manholes. The Contractor and/or Engineer shall determine individual pressure testing requirements of the gravity sewer mains by the following method: the Contractor and/or Engineer shall take the difference in elevation (in feet) between the invert out of the downstream manhole and the rim elevation of the upstream manhole, divide the difference in elevation by 2.31 psi per foot of change in elevation and then multiply that number by a 1.5 safety factor to determine the required testing pressure. The individual line segment shall then be hydrostatically tested to this pressure. No allowable leakage is allowed over a two hour period. All tests shall be performed in the presence of the Owner and/or Engineer.

(B-A) / 2.31 psi/ft. x 1.5 safety factor = testing pressure
Where:
B = Rim of Upstream Manhole
A = Invert out of Downstream Manhole

CHANGES TO THE DRAWINGS:

1. No changes to the Drawings are included in this Addendum.

RESPONSES TO BIDDER QUESTIONS:

Bidder Question 1: What is the designed load for the rock augers?

Engineer Response to Bidder Question 1: The design load for the rock auger is 5,000 pounds per rock auger, which includes a factor of safety of 2.5.

Bidder Question 2: Would it be acceptable to provide precast concrete supports in lieu of cast-in-place?

Engineer Response to Bidder Question 2: Deviations from cast-in-place concrete supports and rock anchors will be considered by the Engineer. To be considered, the selected Contractor shall provide design drawings and calculations sealed by a North Carolina Professional Engineer for the Engineer's review. Deviations shall be provided at no cost to the owner.

-END OF DOCUMENT-

NORTH CAROLINA PROFESSIONAL SEAL 051550 ENGINEER JACOB E. BOWES

1/19/24