

ADDENDUM NO. 3
February 14, 2017
CITY OF HAVELOCK
WTP BACKWASH WASTE SOLIDS HANDLING PROJECT
JOB NO. 2015020
DRAWING NO. W-3642
NCBELS LICENSE NO. F-0334
NCBOLA LICENSE NO. C312



A. SCOPE

This Addendum No. 3 consists of pages ADDENDUM 3-1 through ADDENDUM 3-6.

BIDDERS are hereby notified of the following changes in the specifications and drawings.

B. SPECIFICATIONS

1. SUPPLEMENTARY CONDITIONS

Page 3 of 12, SC 5.03 Subsurface and Physical Conditions; DELETE SC5.03 in its entirety; REPLACE with the following;

"SC-5.03 Add the following new paragraphs immediately after Paragraph 5.03.B:

C. The following reports of explorations and tests of subsurface conditions at or adjacent to the Site are known to Owner:

1. Report dated: July 18, 2016
Prepared by: GeoTechnologies, Inc
Entitled: Report of Subsurface Investigation
The Technical Data contained in such report upon whose accuracy Contractor may rely are: All

D. The following drawings of physical conditions relating to existing surface or subsurface structures at or adjacent to the Site (except Underground Facilities) are known to Owner:

1. Drawings dated: 1989
Prepared by: Black & Veatch
Entitled: Water Facilities Improvements
Consisting of 36 sheets, numbered 1 to 36, inclusive.
 - a. None of the contents of such drawings is Technical Data on whose accuracy Contractor may rely.
2. Drawings dated: August 2001
Prepared by: Hazen and Sawyer
Entitled: Water Treatment Plant Expansion
Consisting of 65 sheets, numbered K1-2, G-3, M1-2, M11, M21-27, M41-43, M51, M61, M71, S11, S21-25, A1-2, A22-25, I1-2, E1-2, E11, E21-26, E61-62, E71-73, D1-D14, inclusive.

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- a. None of the contents of such drawings is Technical Data on whose accuracy Contractor may rely.”
- E. Contractor may examine copies of reports and drawings identified in SC 5.03.C and SC 5.03.D that were not included with the Bidding Documents at Engineer’s Office during regular business hours.

2. SUPPLEMENTARY CONDITIONS

Page 3 of 12, SC 5.06 Hazardous Environmental Conditions; DELETE SC5.06 through and including SC 5.06 B; REPLACE with the following;

“SC-5.06 Add the following subparagraphs 5.06.A.1 and 5.06.A.2:

- 1. The following reports regarding Hazardous Environmental Conditions at the Site are known to Owner:
 - a. Report dated: January 24, 2017
Prepared by: Pro Environmental
Entitled: Bulk Asbestos Analysis Phase I Re-Inspection
The Technical Data contained in such report upon whose accuracy Contractor may rely are: All
- 2. The following drawings regarding Hazardous Environmental Conditions at the Site are known to Owner:
 - a. None”

3. SECTION C-410 – BID FORM

Page B5, DELETE Page ADDENDUM 2-7, Bid Form Page B5; ADD Page ADDENDUM 3-5, Bid Form Page B5.

Page B6, DELETE Page ADDENDUM 2-8, Bid Form Page B6; ADD Page ADDENDUM 3-6, Bid Form Page B6.

4. SECTION C-520 – AGREEMENT

Page A-1 and A-2, DELETE Paragraph 4.02 A. in its entirety and replace with the following:

“4.02 *Contract Times: Days to Achieve Substantial Completion and Final Payment*

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A. The Work will be substantially completed within 240 days after the date when the Contract Times commence to run as provided in Paragraph 2.03 of the General Conditions, and completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions within 240 days after the date when the Contract Times commence to run.”

5. SECTION 01150 – PAYMENT

Page Addendum 2-22 01150-4 DELETE Paragraph 13. Utility Service Entrance Allowance in its entirety.

6. SECTION 13620 – INSTRUMENTATION AND CONTROLS

Page 13620-2, DELETE “Dechlorination Feed controls provided by others”; REPLACE with “Dechlorination Feed controls provided by Systems Integrator”

C. DRAWINGS

Sheet E-2: ADD note at the Hood/Rack beside Waste Settling Basin Stairway as follows:

“Provide new digital flow display unit field installed on the rack adjacent to receptacle. Provide Nema 4-X SS enclosure. Provide display as 3.6 inch depth and 1.2” display height. Trident PD765 or equal. Provide 4-ma analog signal booster for the backwash flow 2 wire signal loop. Provide integral to 4-X enclosure. Provide as 600 ohm max load impedance. Provide Red Lion IAMA or equal.”

Sheet E-5 ADD to the one-line diagram the following:

Intercept conduit 12 from the backwash flow magmeter at the backwash meter vault and include note “route to Settling Basin backwash flow display”. At backwash flow display add note to “provide display with total flow and signal booster plus route conduit 12 from this display to PLC-2”.

Sheet E-4: ADD note at the Dechlorination Building as follows:

“Provide new digital flow display unit field installed in the Dechlorination Building on the wall adjacent to the prewired power panel. Provide Nema 4-X SS enclosure. Provide display as 3.6 inch depth and 1.2” display height. Trident PD765 or equal. Provide 4-ma analog signal booster for the effluent flow 2 wire signal loop. Provide integral to 4-X enclosure. Provide as 600 ohm max load impedance. Provide Red Lion IAMA or equal.”

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Sheet E-5 ADD to the one-line diagram the following:

Intercept conduit 12 from the effluent flow magmeter at the effluent meter vault and include note "route to Dechlorination Building effluent flow display". At effluent flow display add note to "provide display with total flow and signal booster plus route conduit 12 from this display to PLC-2".

- D. GENERAL – In regard to post pre-bid meeting Question 22 from the post pre-bid meeting questions, the owner will have this work done by CCEC; see page ADDENDUM 3-3 of 05 and ADDENDUM 3-5 OF 05, Bid Form Page B6.

There were forty-two post pre-bid meeting questions from the bidders and plan-holders; answers were in-place for thirty-one of these by February 10, 2017; attached are the other eleven questions and answers by the engineer which documents questions received after project meeting held on Thursday, January 19, 2017. As for Question 25 relevant to demolition of existing building and results of the inspection for asbestos, another attachment is copy of letter from Pro Environmental with "analysis of those sample results" from the Asbestos Survey it performed at 601 Webb Boulevard on January 24, 2017. These documents are not to be considered a part of the Addendum or Contract Documents. They are provided for information only. All revisions of plans and specifications are included in the appropriate Addendum.

This Addendum No. 3 is submitted this 14th day of February, 2017. Each BIDDER is requested to acknowledge receipt of this Addendum in the space provided in the Bid Form.

RIVERS & ASSOCIATES, INC.
107 East Second Street
Greenville, North Carolina 27858
(252) 752-4135

BID SCHEDULE

CONTRACT I - GENERAL CONSTRUCTION:

ITEM

<u>NO.</u>	<u>QTY.</u>	<u>UNIT</u>	<u>DESCRIPTION</u>	<u>ALTERNATE</u>	<u>BASE BID</u>
1.	1	LS	WTP Backwash Solids Handling Facilities including all work and materials except equipment allowances and unit price items listed below. A LUMP SUM OF:		\$ _____
2A.	1	LS	Instrumentation and Controls - Base Bid A LUMP SUM OF:		\$ _____
2B.	1	LS	Instrumentation and Controls - Lord & Co. - Alternate	\$ _____	
3A.	1	LS	Prestressed Composite Concrete Tank - Base Bid A LUMP SUM OF:		\$ _____
3B.	1	LS	Prestressed Composite Concrete Tank - Crom - Alternate	\$ _____	
4A.	1	LS	Packaged Suction Lift Pumps and Ancillary Equipment - Base Bid A LUMP SUM OF:		\$ _____
4B.	1	LS	Packaged Suction Lift Pumps and Ancillary Equipment - Gorman Rupp - Alternate	\$ _____	
5A.	1	LS	Submersible Pumps and Ancillary Equipment - Base Bid A LUMP SUM OF:		\$ _____
5B.	1	LS	Submersible Pumps and Ancillary Equipment - Xylem - Alternate	\$ _____	
6A.	1	LS	Prefabricated Fiberglass Building - Base Bid A LUMP SUM OF:		\$ _____
6B.	1	LS	Prefabricated Fiberglass Building - Warminster - Alternate	\$ _____	
7A.	1	LS	Peristaltic Chemical Feed Pumps and Ancillary Equipment - Base Bid A LUMP SUM OF:		\$ _____
7B.	1	LS	Peristaltic Chemical Feed Pumps and Ancillary Equipment - Blue-White Industries - Alternate	\$ _____	

BID SCHEDULE

CONTRACT I - GENERAL CONSTRUCTION:

ITEM

<u>NO.</u>	<u>QTY.</u>	<u>UNIT</u>	<u>DESCRIPTION</u>	<u>ALTERNATE</u>	<u>BASE BID</u>
8A.	1	LS	Circular Sludge Collecting Equipment Base Bid A LUMP SUM OF:		\$ _____
8B.	1	LS	Circular Sludge Collecting Equipment Evoqua - Alternate	\$ _____	
9.	1	LS	Six (6) motor-operated plug valves for 6-inch FM at the Sandbeds		\$ _____
10.	1	LS	Umbrella or Excess Liability Insurance		\$ _____
11.	1	LS	Mobilization <i>{not to exceed 3% of Total Bid}</i>		\$ _____
12.	1	LS	Testing Allowance		\$ 10,000.00
13.			<i>n/a</i>		\$ 0.00



2.10.17

Job Estimate:
Town of Havelock

Property Location:
601 Webb Blvd.
Havelock, NC

Pro Environmental Services (PES) performed an Asbestos Survey of the above referenced property on 1.24.17. The following is an analysis of those sample results:

Bulk Asbestos Analysis

- Of the (70) bulk samples that were collected, (17) of those samples contained a percentage of Chrysotile Asbestos. All of those positive ACM samples were considered non-friable.
- Non-friable ACM has the following classification that would require certified abatement prior to disturbance of those materials. (1) Over 260sqft of ACM. (2) Over 160lf of ACM. (3) Over 35cuft of ACM. In each of the positive bulk samples that were collected, none of those necessary abatement criteria were exceeded.

Please let us know if you have any questions regarding this report.

Thanks,
Butch Bryant
Pro Environmental Services

QUESTIONS AND ANSWERS FOR CLARIFICATION AND REFERENCE TO ADDENDA

Pre-Bid Conference Questions and Post-Conference Questions

Project: City of Havelock
WTP Backwash Solids Handling Project

Date of Pre-Bid Conference: Thursday, January 19, 2017
Date of Bid Opening: Friday, February 17, 2017 at 2:00 PM

Attendees: Pre-Bid Conference Sign-in Sheet

Post-Conference Questions

TO BE ANSWERED BY GENERAL – ADDENDUM NO. 3

32. The Geotechnical Report provides groundwater information (3' to 8' below existing grade) but does not give a design groundwater elevation. Please provide the design ground water elevation for the waste settling tank.

See GeoTechnologies Report of Subsurface Investigation – July 18, 2016 added to the appendices in the specification by Addendum No. 2.

33. Drawing Sheet G3, FEMA Flood Zone Designation, states, “The Havelock WTP is in FEMA Flood Zone Designation X – area determined to be outside the 0.2% annual chance floodplain (500-year). There was no mention of the 100-year flood elevation. Please provide the 100-year flood elevation.

The FEMA Designation means there is not a 100-year Flood Elevation.

34. Specification 03310-7, Related Materials- Polyethylene sheet, requires not less than 8 mils thick. Typically, Crom uses a 6 mil thickness. Please confirm if a 6 mil thickness is acceptable.

No less than 6 mil thickness of polyethylene is acceptable; See Addendum 02

35. Specification 13413-3, Part 2- General Design Criteria, provides a maximum net allowable soil bearing capacity of 300psf. The geotechnical report provides an allowable bearing capacity of 2500 psf. Please confirm the allowable bearing capacity.

Addendum No. 2 deletes reference to net allowable soil bearing capacity and refers to GeoTechnologies Report of Subsurface Investigation – July 18, 2016.

36. Specification 13413-4, Part 2- Structural Design Criteria- Floor, states, “The floor shall be designed for pile foundations where shown or required”. A pile foundation was not shown on

plans, however, there is mention of providing driven piles or surcharging the tank foot print if the settlements indicated in the geotechnical report are insufficient for the tank design. The geotechnical report mentions embedding the tank to reduce the amount of total and differential settlement. Please provide the amount of total and differential settlement for the chosen embedment. It appears that the waste settling tank is embedded approximately six feet.

Answers to questions relevant to soil and design of the pre-stressed concrete tank can be found in GeoTechnologies Report of Subsurface Investigation – July 18, 2016 added to the appendices in the specification by Addendum No. 2

37. Specification 13413-4, Part 2- Structural Design Criteria- Floor, requires the reinforcing steel to be extended a minimum of two feet into the adjacent 4 inch thick floor. We believe this is a typo. Please delete 4 and replace with 8.

See Addendum No. 2.

38. Specification 13413-5, Part 2- Materials- Deformed Steel Reinforcement, requires a yield strength of 40,000 psi. Specification 03310-4, Reinforcing Materials- Reinforcing Bars, requires Grade 60,

Request For Information No. 1 February 2, 2017 Havelock, Craven County, North Carolina Page 2 CEN 2016-E-101 deformed. Drawing Sheet S1, General Notes- C1, requires Grade 60. We suggest requiring Grade 60 for tank construction. Please delete 40 and replace with 60.

Addendum No. 2 calls for 60,000.

39. Specification 13413-5, Part 2- Materials- Steel Shell Diaphragm, calls for ASTM A653/A653M for Commercial Quality Cold Rolled Steel, 26 gauge. We recommend that the specifications be updated. Please replace the language with the following: “The galvanized steel diaphragm used in the construction of the core wall shall be 26-gauge with a minimum thickness of 0.017 in. conforming to the requirements of ASTM A653/A653M. Weight of zinc coating shall not be less than G 90 of Table 1 of ASTM A653/A653M.” This is an update to our standard tank construction that we believe will enhance the finished product.

Addendum No. 2 calls for galvanized steel diaphragm.

40. Specification 16050-14, Lightning and Surge Protection, provides information about lightning protection, grounding, bonding, etc. Drawing Sheets E-1 and E-2 show electrical wiring and connections of features on the concrete tank. Please note, bonding to any concrete encased tank steel is not permitted and shall not be allowed per the tank manufacturer. All bonding shall be done by using air terminals on the top of the tank wall with PVC conduit adhered to the exterior tank wall. Electrical grounding to the reinforcing of a prestressed concrete tank is prohibited by AWWA D110-13 per Section 5.16. Items requiring grounding, such as lightning protection, are required to be a separate system with its own ground connections. Excerpts of the referenced Sections are provided below.

QUESTIONS AND ANSWERS FOR CLARIFICATION AND REFERENCE TO ADDENDA

- AWWA D110-13, Sec. 5.16 – Electrical grounding to non-prestressed reinforcing steel or prestressed reinforcement for any equipment or electrical service shall be strictly prohibited.
- AWWA D110-13 Sec. 5.17 – Lightning protection, if required, shall be a separate system with its own ground connections.

No bonding to the reinforcing is required by the plans and/or the specifications.

41. Is an interior coating required for the waste settling tank?

NO

42. Is a coating required for the stainless steel baffle plates installed on the tank interior?

NO; not if fabricated from stainless steel.