

City of Rehoboth Beach

Sharon Lynn
City Manager

slynn@cityofrehoboth.com



City Hall
P.O. Box 1163
229 Rehoboth Avenue
Rehoboth Beach, Delaware 19971
Telephone 302-227-4641
www.cityofrehoboth.com

July 7, 2017

Rehoboth Beach WWTP Effluent Pump Station
Addendum #1

To Bidders:

This Addendum #1 is hereby made part of the Bidding Documents on which the Contract will be based, and is issued to modify, explain and/or correct the original Bidding Documents. Please submit bids and be otherwise governed accordingly. **Receipt of this Addendum must be acknowledged on Page 00410-00 of the Section 00410 Bid Form.**

RESPONSES TO QUESTIONS

Question 1 (Pre-Bid Meeting)

A contractor did not attend the pre-bid meeting. However, due to a conflict in the bid documents as to whether pre-bid meeting attendance was mandatory we received verbal confirmation that the contractor would be permitted to submit a bid. When can we expect an addendum rescinding the any language referring to a mandatory pre-bid in the bid documents?

Response

See relevant changes to the Bidding Documents that follow.

Question 2 (Major Product Schedule & 11292)

The Major Product Schedule lists manufacturers for section 11292 that contradict the manufacturers listed in the actual specification section. Please clarify.

Response

The intent is to use fabricated composite sluice gates. See relevant changes to the Bidding Documents that follow.

Question 3 (02223)

Please refer to Section 02223, Part 3.09-A-7 & 8. Does this apply to the pumping station structure backfill? If so, type A or B graded aggregate base course?

Response

References to structures apply to pumping station. The Graded Aggregate Base Course referenced in 3.09-A-7 & 8 shall be Type B (Crusher Run).

Question 4 (15060)

What are the flange bolt and gasket requirements for this project?

Response

Per 2.05, Gaskets shall be nitrile (Buna N) NSF61 listed, compounded to resist: water, oil acids, alkalis, most (aliphatic) hydrocarbon fluids and many other chemicals. The temperature range of the gasket shall be -20F to 180F.

Bolts and hardware shall be Type 316 stainless steel, unless otherwise specified.

Question 5 (C002)

Please refer to plan page C002. What is the purpose of the temporary plug valve? The pump station should be tied into the completed force main and tested prior to connecting the new influent piping.

Response

The intent of the plug valve is to provide isolation of the Parshall flume during construction and testing. Once the Effluent pump station is operational, the plug valve will be removed and the pipe capped.

Question 6 (E002)

Please reference Sheet E002, Note #6: "Trenching for new duct bank shall be excavated as deep as required until suitable subgrade is encountered. Unsuitable landfill material extends approximately 17' +/- below grade. Reinforcing geotextile fabric shall be used for stabilization. Fabric shall wrap trench bottom to a minimum height of 6" above initial backfill. Refer to trench detail on Civil Drawings for additional requirements."

Is the intent of design for the contractor to install the electrical duct bank at elevation -7.0 (which is 17' below grade) and that this cost to be included in our base bid? This is a very expensive note if required considering the water table and proximity of the duct bank to existing buildings and structures. Can you provide a profile of the electrical duct bank that would satisfy this note and transition into the elevations required to enter the existing Micro Screen Building (B-2), Effluent Control Building (B-4) and Chemical/Blower Building (B-10)? What are the depths of the electrical manholes required to be? Does this over-excavation or invert requirements due to "landfill material" effect any other work on the project?

I do not think the intent of design is for us to dig a heavily OSHA shored and dewatered trench 17' deep for very minor and small electrical duct bank work. It is important that if required, this be emphasized in addenda to make sure this is included by all bidding contractors.

Response

See relevant changes to the Bidding Documents that follow.

Question 7 (E002)

Do all of the electric duct banks have to be excavated approximately 17 feet deep such that all debris is removed per note 6 on Contact drawing E002 or is it just the one run from Effluent Control Building to the Effluent Pump Station?

Response

Refer to the response to Bidder Question No. 6 for required depth of duct bank DB-PS3 between the Effluent Control Building B-4 and Effluent Pump Station PS-3. Duct Bank DB-101, DB-102, and DB-103 are existing duct banks. DB-RTU1, DB-RTU2, and DB-RTU3 shall sit on top of DB-101, DB-102, and DB-103 respectively as noted on Contract Drawing E002, therefore, their depths are determined by the depths of the existing duct banks.

Question 8 (E002)

Building B-10 (Chemical and Blower Building) - please advise type of conduit required within this building (DB-RTU1).

Response

Refer to Conduit Installation Schedule at the end of Section 16110 for types of conduit required in various areas. Refer to Area Classification Schedule in Section 16050, Article 1.16-F for area classifications. See relevant changes to the Bidding Documents that follow.

Question 9 (E002)

The circuit schedule in the column marked conductors - what is a "C8" conductor or where is the index for this schedule? Please advise.

Response

Refer to General Circuit/Conduit Tag ID table on Contract Drawing E001.

Question 10 (E006)

Shows EM1 fixture; however, this fixture is not shown in the lighting fixture schedule on page E003. Please provide fixture information.

Response

See relevant changes to the Bidding Documents that follow.

Question 11 (E006)

Would an outdoor pull box be acceptable versus conduit detail shown on drawings as room in limited on the wall. Please advise.

Response

It is acceptable to mount the pull boxes shown on Contract Drawing E006 on the outside of the building in lieu of on the inside as shown. Required pull box types are based on their location as specified in Section 16161 Article 3.04-A.

Question 12 (E010)

"Communications duct banks shall consist of PVC coated Rigid Steel Conduit"

In DB PS3 conduits E1, E2 are these conduits to be considered "communication" and be installed with PVC coated rigid steel conduit?

Response

Refer to Conduit Installation Schedule at the end of Section 16110 for types of conduit required in various areas. Conduits E1 and E2 in Duct Bank DB-PS3 and the conduit in Duct Banks DB-RTU1, DB-RTU2, and DB-RTU3 shall be considered "communications" or "instrumentation" conduits. See relevant changes to the Contract Documents that follow.

CHANGES TO BIDDING DOCUMENTS

1. Invitation to Bid, Page 00050-1, CHANGE "until 2:00 pm, Tuesday, July 11, 2017" to "until 2:00 pm, Thursday, July 13, 2017".
2. Section 00050, paragraph 7, DELETE "mandatory" and REPLACE with "non-mandatory".
3. Section 00410 G, Major Products Schedule: DELETE 00410 G, Major Products Schedule in its entirety and replace with the attached 00410 G.
4. Section 11292, Article 2.03 M.2, DELETE "on the handwheel" REPLACE with "on the crank".
5. Section 11292, Article 2.03 O.1.h, DELETE "on the handwheel" REPLACE with "on the crank".

6. Section 11292, Article 2.03 O.2 Manual Actuators: DELETE Article 2.03 O.2 in its entirety and REPLACE with:
- "2. Manual Actuators:
- a. All actuators shall be supplied with a 2-inch square operating nut, and a removable cast iron crank arm with revolving brass grip.
 - b. The operating nut shall be internally threaded with threads corresponding to stem threading.
 - c. All gates shall be geared.
 - d. All gears shall be constructed of steel and shall be accurately machine cut and of proper design to provide smooth operation and to support load conditions. Lubrication fittings shall be provided in the gear housing to permit lubrication of all gears and bearings.
 - e. All reduction gear cases shall be precision machined and equipped with tapered roller or needle bearings and sealed about all reduction shafts.
 - f. Geared hoists shall have a 4:1 ratio."

7. Section 11292, Article 3.04 Equipment Schedule: DELETE the Equipment Schedule in its entirety and REPLACE with the attached Equipment Schedule.

8. Section 11302, Article 2.01 Manufacturers: DELETE "National Pump, Model H14MC-2" and REPLACE with "National Pump, Model H14XHC-3".

9. Drawing sheet E002, DELETE Note #6 in its entirety REPLACE with "The Contractor shall excavate to suitable soil, install geotextile fabric and backfill/compact to subgrade of the duct bank. Fabric shall wrap trench bottom to a minimum height of 6" above initial backfill. The duct bank shall have a minimum 27" cover."

10. Section 16050, Article 1.16-F DELETE Area Classification Schedule in its entirety and REPLACE with the following Area Classification Schedule:

Area Description	Dry Location	Wet Location	Hazardous Location	Corrosive Area	Reference Notes
Effluent Pumping Station (PS-3A & PS-3B)		X			
Effluent Pumping Station Control Building (B-4)	X				
General Outdoor Areas (Unless otherwise shown on the Contract Drawings, noted or specified).		X			
Chemical & Blower Building (B-10) Electrical Room	X				
All other Locations		X			
Reference Notes:					
1. Areas designated as both Wet Location and Hazardous Locations shall meet the requirements for both locations.					
2. The envelope 18" above the minimum water surface elevation and extending 10' horizontally from the wetted walls of the tank shall be designated a Class I, Division 2, Group D Hazardous Location.					
3. Rooms and areas shall be designated as Finished Areas. Finished areas shall be rooms and locations in which electrical work shall be concealed behind walls or above suspended ceilings or where specifically called out on the Contract Drawings (i.e., Control rooms, storage area, office areas, office corridors, restrooms.)					

11. Section 16110, Page 19, DELETE entire column labelled "Rigid Steel Conduit".
12. Section 16110, Page 19, DELETE "Intermediate Metal Conduit (IMC)" from the A-1 column and REPLACE with "Rigid Steel Conduit (RSC)".
13. Section 16110, Article 2.01-A, DELETE "IMC INTERMEDIATE RIGID METAL CONDUIT" and REPLACE with "RSC RIGID STEEL CONDUIT".
14. Section 16110, Page 20, DELETE "X" in column D of Instrumentation Circuits (24Vdc, 4-20mA, Network Communications) row.
15. Section 16110, page 21, DELETE 'X' column D of instrumentation circuits (24Vdc, 4-20mA network and telephone communications) row and REPLACE with an "X" in Type E-1 column.
16. Contract Drawing E003 DELETE Lighting Fixture Schedule in its entirety and REPLACE with the Lighting Fixture Schedule attached.

ATTACHMENTS

1. Section 00410 G, Major Products Schedule
2. Section 11292, Fabricated Composite Sluice Gates Equipment Schedule
3. Drawing E003, Lighting Fixture Schedule

Sincerely,

A handwritten signature in black ink, appearing to read "Sharon Lynn", with a stylized flourish at the end.

Sharon Lynn
City Manager