

June 11, 2021

Subject: ITB #1914-B: Crosstown and South Fayette Water Treatment Plants Hoseless Solids Collections System Addendum #1

Gentlemen/Ladies:

Below, please find responses to questions, clarification, or additional information for the above referenced Invitation to Bid. You will need to consider this information when preparing your bid.

1. Spec section 2.08-E.8.c states "Provide 120 -volt ac power to the sheave heater located at the drive assembly." Drive heaters are not mentioned anywhere else in the spec. Can you confirm if these are required including the components needed in the panels?
Drive heaters will not be required. The specification will be modified.
2. One other spec point that also needs clarification. 2.06-A.5 states valve actuator shall be powered locally by contractor but 2.09-A states they shall be powered by vendor's panel.
The valve actuator is to be powered from the vendor's panel. The specification will be modified.
3. Is the contractor required to remove and dispose of all the old equipment, including the winches?
Yes, the contractor is responsible for removal and disposal of all equipment, including the winches, except as noted. See Article 3.05 of section 02 41 00, Demolition.
4. Provide utility and electrical drawings for the perimeters of the basins at each location. As-built drawings for both the Crosstown and South Fayette WTPs have been emailed to attendees of the mandatory pre-bid meeting. Please see Question 33 in the Addendum for the list of drawings that have been shared with attendees of mandatory pre-bid meeting.
5. Are the basin bottoms sloped?
No, the basin floors are not sloped.

6. Are there any areas that are off limits for the crane?

There are no true off limits areas. Contractors shall practice safe operation and be mindful of the lights, buildings, and above ground tanks.

7. Is the existing sludge going to be removed from the basins prior to installation?

Yes, the existing sludge will be removed from basins by plant personnel.

8. When was the last time the basins were drained?

The basins at both water treatment plants were drained and cleaned during April-May 2021.

9. Please provide photos of the drained basins.

There are no photos available from recent basin draining.

10. Are you doing away with the entire pneumatic line going around the outside of the brick basin?

Yes, the entire pneumatic line is to be demolished.

11. Do all the gates work and can the basins be isolated?

Yes, all basins are able to be isolated to facilitate the scope of work being done.

12. How long does it take to drain the basins and how much notice do you need prior to draining?

It takes approximately 4-5 hours to drain a set of basins, and contractors shall provide a 24-hr. minimum notice prior to draining.

13. Does each completed basin have to be up, tested and running before the next basin is drained?

Yes. See Paragraph 1.03.A.2 of Section 01 13 31, Project Coordination.

14. How many basins may be taken down at one time?

Only two basins may be taken down at a time. See Paragraph 1.03.A.2 of Section 01 13 31, Project Coordination.

15. Does the control panel have to be in place before the basins are drained?

There is no requirement that the control panel be installed prior to draining the first basin. However, it must be installed prior to bringing the first pair of sedimentation basins back on-line, so it is acceptable if the contractor prefers to begin installation of the control panel prior to the first two basins being drained. But note that the existing controls at each WTP must remain operational until the last two sedimentation basins are taken off-line at the respective WTP.

16. Do you want certain operational feedback before we take the next basin off line?

The new hoseless sludge collectors in a pair of basins must be tested and operational prior to taking the next pair of basins off-line.

17. May electricians view the control panel after the pre-bid?

If an electrician needs to view the control panel, it shall be scheduled through the Purchasing Department. No visitors are allowed at the Water Treatment Plants without a Purchasing Representative accompanying them. All questions that arise shall be emailed to nduggan@fayettecountyga.gov and shall not be answered during a site visit. The deadline for questions has passed.

18. Are the new controls going to be in the same place as the old controls? Or do the existing controls have to remain operational during the entire project?

Existing controls must remain operational at each plant until the last pair of basins at that plant are taken off-line for demolition of existing sludge removal equipment and installation of the new sludge removal equipment.

19. How does the control panel affect sequencing?

Existing controls must remain in place at each WTP until the last pair of basins at the respective WTP are taken off-line. The new control panels at each WTP must be installed and operational with installation of the first pair of new sludge collection mechanisms at the respective WTP.

20. When will the central controller be demolished?

The central controller must remain operational at each WTP until the last pair of basins at that plant are taken off-line for demolition of the existing sludge removal equipment.

21. Will the engineer be open to reviewing the submittal prior to the Notice to Proceed being issued?

This Engineer of Record will work with the contractor that is awarded the contract in order to review the submittals in a timely manner.

22. Do you anticipate any concrete patch work in the basins?

Concrete patchwork is anticipated where the sludge discharge boxes on the exterior of the South Fayette WTP sedimentation basins are to be demolished.

23. Fayette County Water System will provide a location for a contractor supplied dumpster to be placed during the project.

24. Section 2.08-E.8.c states "Provide 120 -volt ac power to the sheave heater located at the drive assembly." Drive heaters are not mentioned anywhere else in the spec. Please confirm if these are required including the components needed in the panels? Drive heaters are not required by MRI unless the project is located in a much colder location where freezing could be an issue. If heaters are desired, then this should be included in the spec under drives as well as controls requirements.

Drive heaters will not be required. The specification will be modified.

25. Section 2.06-A.5 states valve actuator shall be powered locally by contractor but 2.09-A states they shall be powered by vendor's panel. Please clarify.

The valve actuator is to be powered from the vendor's panel. The specification will be modified.

26. The chart at the end of 40 27 02 (last column) has the letters B,E,G,M for electric actuator features:

A. The "Service" column has a T for Throttling. How is this different than M for Modulating?

T for throttling indicates that the valve will be open to a throttled position as set during startup of each hoseless sludge collection mechanism to establish the target sludge discharge flow rate. Modulating indicates that a valve position can be continuously adjusted based on a 4-20 mA signal.

B. This B feature is for "close upon loss of signal". Apparently these valves will be following an analog control signal, like 4-20 mA.

a. This language is typically seen for Modulating actuators that follow either 4-20 mA or 0-10 volt analog control signals.

b. Do the valves need to be modulated or will set valve positions for specific flows be sufficient?

A set valve position is intended.

C. The P&ID drawings do not indicate analog control as it shows standard open/close control. This conflicts with the modulating valve language per spec.

The discharge valve is not modulating. It is to open to a specific setpoint as determined during startup to achieve the target sludge flow discharge rate so it will only receive an open/close signal.

27. Regarding the valves, the spec calls out Av-Tek model DEX-2504 valves or Pratt valves.

A. The Av-Tek DEX-2504 is a double offset, High Performance, high pressure butterfly valve.

a. Av-Tek does not make this valve in a 4" size. The 6" size is the smallest.

b. MRI valves are usually standard pressure butterfly valves. Can MRI submit an "or equal" valve and actuator setup that will meet the spec's needs?

It is acceptable for the hoseless sludge equipment provider to submit an "or equal" valve and actuator.

28. 44 42 63 2.09-D states for panel supports to be supplied by the manufacturer.

Typically, the contractor supplies this piece as part of the installation since the manufacturer doesn't have all details on final location and what is necessary for plant's electrical requirements & needs. Drive supports will be supplied by MRI.

Control panel supports are to be provided by the contractor. The specification will be modified.

29. Field services imply that only 2 basins will be started up at a time. Please confirm if this is the case.

Yes, construction sequencing only allows for two basins to be taken out of service at a time.

30. Will any equipment will be salvaged by the owner and is it the contractor's responsibility to remove equipment from site?

Yes – refer to Paragraph 3.05 of Section 02 41 00, Demolition.

31. How long will each new system need to be operating for prior to the next set of basins be drained?

The next set of basins can be drained new equipment in the current set has been successfully tested and placed into service.

32. Can the shop drawings be provided for the existing sludge removal equipment?

Shop drawings are not available at time. They will be provided if and when available.

33. In the Invitation to Bid Project Manual, Supplementary Conditions, the Drawings specified in 5.03.D have been sent to attendees of the mandatory pre-bid meeting. They are named: 1985 Crosstown_Combined, 1991 Crosstown_Combined, 1988 South-Fayette_Bound, 497074-Crosstown-Conformed-Vol2Drawings-B.

34. The following are updated to the original Invitation to Bid Project Manual:

Specification Section 40 27 00, Plant Piping – General:

Page 7, Paragraph 1.04.B.4, DELETE this item in its entirety.

Specification Section 44 42 63, Hose-less Solids Collection System:

Page 7, Paragraph 2.06.A.5, CHANGE the second sentence to read as follows: "Valve actuator shall be powered from and controlled by the collector's panel(s)."

Page 12, Paragraph 2.08.E.8.c, DELETE this item in its entirety.

Page 12, Paragraph 2.09.D, DELETE "and control panels".

Drawing SF-10-M-103:

Section A – Change the Detail callout from 'XXXX-XXX' to '0330-144'.

Drawing 99-M-501:

ADD Detail 0330-144, attached.

Received by (Name): _____ Company _____

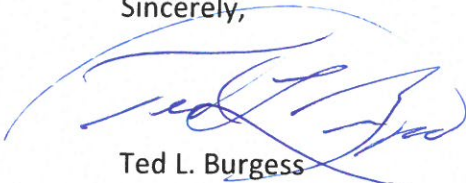
Note: If this addendum is not returned to the Fayette County Purchasing Department or if it is returned not signed, responding individuals, companies or other organizations will still be responsible for the requirements of this addendum and the specifications or changes herein.

The opening date for this ITB has not changed. **The bid due time and date are 12:00 p.m., Wednesday, June 30, 2021.** Bids must be received by the Purchasing Department at the address above, Suite 204, at or before the opening date and time.

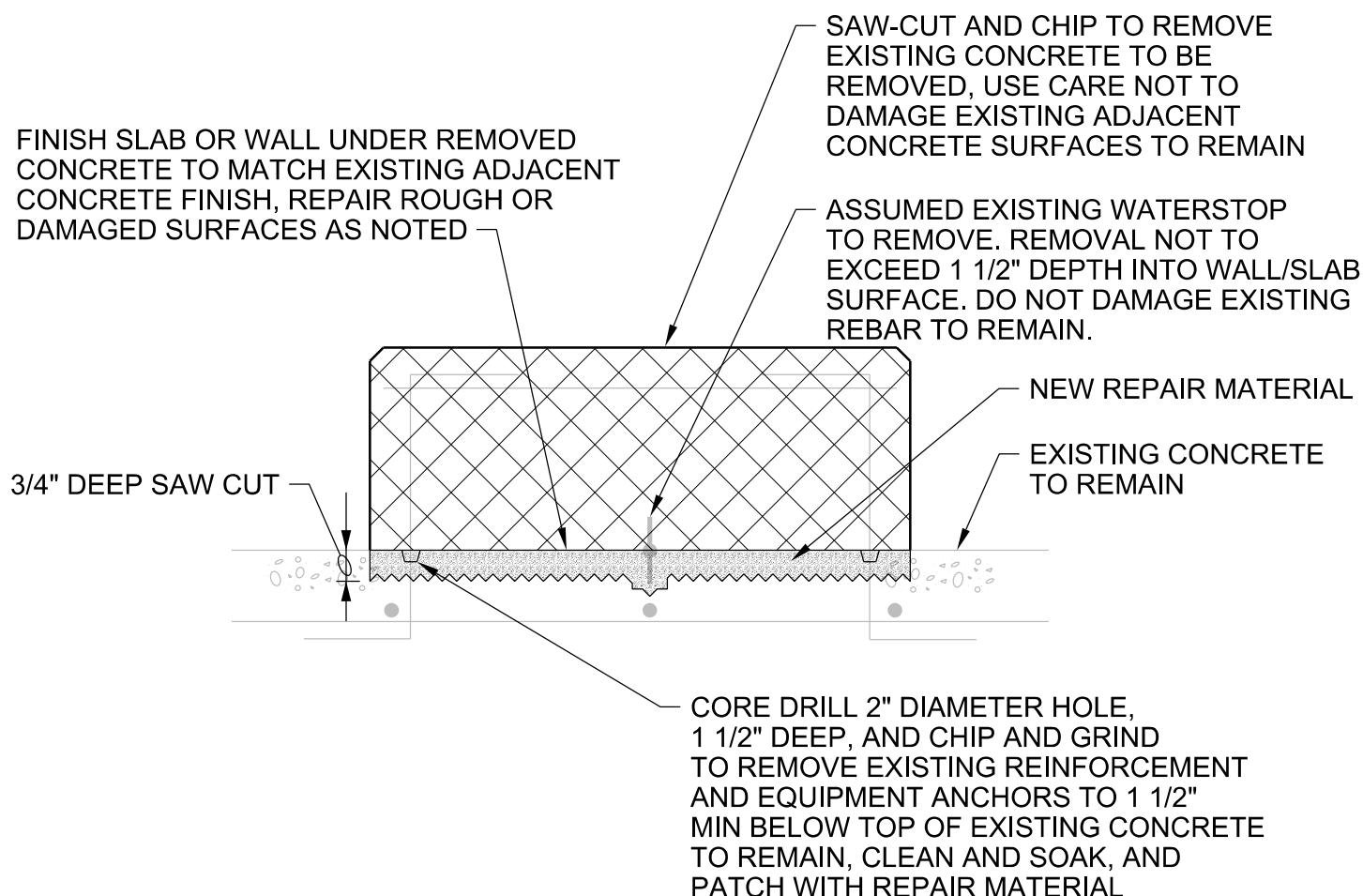
The deadline for inquiries has passed, so the Purchasing Department will not be able to accept any additional questions after this time.

If you have questions, please contact Natasha Duggan, Contract Administrator at (770) 305-5150, fax (770) 719-5534 or email at nduggan@fayettecountyga.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Ted L. Burgess", is written over the printed name and title.

Ted L. Burgess
Director of Purchasing



NOTES:

1. REMOVE CONCRETE OUT TO SOUND CONCRETE.
2. IF CHIPPING INTO THE SURFACE OF THE EXISTING SLAB OR WALL TO REMAIN IS REQUIRED, MAKE EDGES PERPENDICULAR TO THE SURFACE. DO NOT FEATHER EDGES.
3. FILL DEFECTIVE AREA WITH AN APPROVED PREPACKAGED REPAIR MATERIAL TO MATCH APPEARANCE OF ADJACENT CONCRETE SURFACES.
4. USE APPROVED BONDING AGENT ON SURFACES TO BE PATCHED PRIOR TO PLACING REPAIR MATERIAL.
5. DEMONSTRATE METHODS FOR REPAIR USING ACTUAL MATERIALS, METHODS, AND CURING PROCEDURES REQUIRED BY MATERIAL MANUFACTURERS. CONSULT WITH BONDING AGENT MANUFACTURER AND REPAIR MATERIAL MANUFACTURER ON TECHNIQUES.

CONCRETE DEMOLITION

NTS

0330-144