

ADDENDUM NO. 5
WATER SYSTEM IMPROVEMENTS
CONTRACT 22-02
NEW 2.0 MG ELEVATED
WATER STORAGE TANK
HENDERSON WATER UTILITY
HENDERSON, KENTUCKY
WAUFORD PROJECT NO. 2163

Date of Addendum: Friday, April 8, 2022

Bid Opening: Tuesday, April 12, 2022, 2:00 p.m. Central Time

1. Information for Virtual Bid Opening:

Tuesday, April 12, 2022 02:00 PM Central Time (US and Canada)

<https://us06web.zoom.us/j/81406742872?pwd=YVdVejRQbWR6U1ErKzNqWnJXdjJkZz09>

Meeting ID: 814 0674 2872

Passcode: 469198

2. Attached is the revised Questions and Clarifications document.

3. Detailed Specifications, Section 1, General Scope and Special Provisions, Paragraph 4. Guarantee – One Year Warranty, Page DS 1-2:

Modify the paragraph as follows:

“4. Guarantee – One Year Warranty

The Contractor(s) shall guarantee all work **except the coating systems** performed under this contract for a period of one year after the date of Substantial Completion in accordance with requirements of Article 15.08 of the General Conditions. **Coating systems shall be guaranteed for a period of two (2) years.**”

J. R. WAUFORD & COMPANY,
CONSULTING ENGINEERS, INC.

Stephen C. Lee, P.E.
Kentucky License No. 27833

PRE-BID QUESTIONS AND CLARIFICATIONS
CONTRACT 22-02 – NEW 2.0 MG ELEVATED
WATER STORAGE TANK
HENDERSON WATER UTILITY
HENDERSON, KENTUCKY

Bid Date: Tuesday, April 12, 2022
Time: 2:00 PM Central Time

Questions/Answers and Clarifications:

1. **Clarification – The bid date is Tuesday, April 12, 2022, at 2:00 p.m. Central Time.**
2. **Clarification – Liquidated damages for this project will be \$1,000 per calendar day. The time of completion for this contract is five hundred forty (540) calendar days.**
3. **Clarification – Upon completion of the Ground Level Tank, the maintenance of the access road will be handed off to the Elevated Tank Contractor.**
4. **Clarification – Plan holders list is available at QuestCDN.com.**
5. **Clarification – This project is financed with ARPA funding and local funds. Davis-Bacon does not apply.**
6. **Clarification – City of Henderson Licenses/Permits required are below:**
 - City of Henderson Business License (270)831-1200
 - City of Henderson Contractor Registration
 - **Building permit is required; however, the fees will be waived by the City.**
7. When is the anticipated Notice to Proceed or Start of Construction?
It is the intention of the Owner and Engineer to be flexible with the notice to proceed date and project schedule with the requirement that the elevated tank shall be functional by December 31, 2023. The Owner will consider issuing a delayed notice to proceed allowing the Contractor to begin work "on or before" the notice to proceed date to accommodate the Contractor's preferred schedule if the above requirement can be met.
8. Is the ~~480~~ 540 days a Substantial or Final Completion period?
Final Completion.
9. Will a winter shutdown period be allowed?
No.

10. The water tank construction limit is less than 1 acre. Who is going to submit the SWPPP and NOI? Are we expected to create a plan or is it already created for us to follow?
This is one construction contract of a multi-phase water system improvement plan. The SWPPP is located in the specifications after Section 1. See Paragraph 2 of the SWPPP.
11. Detailed Specifications, Section 1. Page DS 1-7 | Please clarify, provide hours and days work is allowed.
**Monday to Friday
Sunrise to sunset**
12. Please confirm the owner is not exempt from Sales Tax.
The owner is exempt from Sales Tax; however, materials and/or services procured by the Contractor are not exempt from Sales Tax.
13. Is there a budget or engineer estimate for this project?
\$5 to \$6 million
14. Is concrete testing for the Shaft paid by the Owner or Contractor?
See Section 2, Paragraph 2 of the Detailed Specifications.
15. Will an Independent 3rd Party Inspection be required for Welding and/or Finishes/Paint?
Midsouth Tank Consultants
16. Special arrangements to visit site?
**A site visit is recommended. Please see the below contact information for access.
Point of Contact: Tom Williams, P.E.
Office: 270.869.6621
Cell: 270.823.2573**
17. How wide is the proposed access road?
A copy of the plans for the proposed access road will be provided to each bidder (see attached). Each bidder should determine any additional requirements related to access and should include those in the bid price.
18. Please advise if there are any material restrictions due to ARPA funded projects.
Available information on ARPA funding was included with Addendum No. 3.
19. Drawing sheet 2 of 3 shows a cone roof. Drawing sheet 2 of 3 shows the tank diameter as 98'-0' and the tower diameter as 48'-0'. Our standard design for a 2,000,000 gallon Composite tank is a 93' diameter tank with a 45' head range on a 52' diameter concrete support tower. Please confirm this is acceptable.
This is acceptable.

20. Tank Spec DS 5-13 Sect 7.f.(8)(a) states that access tube be 48-inch diameter. For a 2,000,000 gallon elevated tank, we suggest this be increased to a 60 inch. Please confirm access tube shall be 60" diameter.

60-inch diameter access tube is acceptable.

21. It should be understood that the 15 year paint Warranty on the exterior paint system is strictly between the coating supplier and the Owner and the Tank Contractor is not part of that warranty.

The 15-year paint warranty is between the coating systems manufacturer and the owner (see Detailed Specifications Section 5, Paragraph 8.i.(4)).

22. Please clarify if all floors inside the base of the tank are painted or is the coating just inside the equipment room building?

All floors inside the base of the tank shall be painted.

23. The 22-04 Contractor will be installing a 20" water and sewer line just west of the tank site. That is going to restrict the tank site and make it very tight. The 22 -01 Contractor also has to build the 1,000,000 gallon concrete ground storage tank and demolish the existing home and powerlines just east of the site. Again, that makes the elevated tank site even smaller. Can the owner get temporary access on the north side of the tank site and on the east side of the tank site so the elevated tank Contractor can access the elevated tank foundation and unload trucks and equipment near the tank foundation? We suggest another 50' north of the site and another 50' east of the site for temporary access.

The City of Henderson owns the 98 acres of remaining property north of the Pratt Paper development and this property can be used by the Contractor for access.

24. The spec states a Step by Step plan needs to be submitted and approved before any work may proceed. What exactly are you looking for? We have not seen this requirement before and need to know what is required so we can estimate the time it will take to produce. Typically, we provide a bar Chart Schedule that outlines each step of the process as we design and build the tank. would this be acceptable?

We are looking for a Gantt Chart. Yes, bar chart schedule is acceptable.

25. The General scope states 1 yr. but the tank spec calls for a 23 month inspection. Please clarify the warranty which warranty is required per the contract.

The 23 month inspection is in reference to all painted piping. See Detailed Specifications Section 5, Paragraph 8.i.(1).

26. The spec states the riser and overflow are sch 10. Typically for this style tank we see sch 10S. Please confirm which schedule pipe is required.

Piping on the Plans and in the Specifications indicated to be Schedule 10 S.S. shall be Schedule 10 stainless steel or Schedule 10S.

27. The dwg shows the man door is typical for 2 places but only 1 location is identified. Please clarify if 1 or 2 doors are required and their location. The specs require a non-standard door size. May we use our standard personnel door?

The two (2) man doors shall be provided as shown on the Plans (concrete column and Equipment Room).

28. The dwgs show a duckbill on the overflow outlet. But there is nothing in the spec to define what make or model. Please confirm if this is required and if so provide the needed information to properly price the item. Would a standard overflow with a weighted flap plate be acceptable ?

See Detailed Specification Section 4, Paragraphs 6.f and 6.g. No, a standard overflow with a weighted flap plate will not be acceptable.

29. The dwg shows that the overflow pipe has a base elbow. By locking this pipe into the floor and at the top of the tank, an expansion joint will be required. Our std design does not require this to be supported at the floor but supported and fixed to the interior of the concrete support structure. Our piping configuration would not require an expansion joint. Please confirm our standard piping detail would be acceptable.

Your standard piping detail would be acceptable.

30. The dwg shows the walkway to the access tube going all the way across the tower to the other side. Why? Typically, the walkway starts at the top of the concrete support structure and stops at the access tube. Please confirm that the walkway stops at the access tube and not all the way across the tank.

A half span walkway or full span walkway is acceptable if operators can access drain valves.

31. Has the owner or engineer filed a Notice to Construct with the FAA? If so, can a copy of their response be included with an addendum?

A Notice of Proposed Construction or Alteration has been submitted, and their response is attached.

32. Can you confirm that the exterior stripe coat can be Tnemec Series L140?

Tnemec Series L140 is not permitted.

33. Can you confirm that the interior wet stripe coat can be Tnemec Series L140?

Tnemec Series L140 is not permitted.

34. Can you confirm that the Owner currently owns the property (or properties) where work is to be performed?

Yes. The City of Henderson owns the 98 acres of remaining property north of the Pratt Paper development.

35. Can you confirm that the Owner has obtained the necessary approvals and permits required to start construction?

The contract documents and previous addenda address Contractor permit requirements.

36. Can you confirm funding is in place for this project?

Yes

37. Please advise the questions' deadline due date and time.

Thursday, April 7 at 5:00 PM.

38. Can you confirm that the AC Unit in the interior equipment room is to be supplied by Others? If not, can you provide specific manufacturer and model number required?

The AC Unit in the interior equipment room is to be supplied by others.

39. Multiple references on the Electrical drawings indicate that the fence grounding is to be performed by the Fence Contractor, however there will be no Fence Contractor in our scope of work. Can you confirm that the limitation of scope for our contract is to route grounding cable to the vicinity of the fence for continuation and connection to the by under another contract?

Yes.

40. Specification Section DS-5 Article 9.d.1.(b) state that electrical conduits within the equipment is to be coated. Can you confirm that conduit within the equipment room is to be coated?

Yes.

41. Drawing E2 – is a roof mounted obstruction light required?

Not at this time; however, all electrical work shall be provided as shown on the Plans.

42. Please confirm the inlet/outlet piping does not require any heat trace and/or insulation.

Correct.

43. Drawing Sheet 1 – regarding Contract 22-01. Can the following information be provided?

a. Has the project been tendered?

The project has been bid and is waiting award.

b. If the project has been tendered, who is the low bidder?

Crom, LLC.

44. Drawing Sheet 1 – regarding Contract 22-01. Can the following information be provided?

a. When is the contract expected to start?

May 2022

b. When is the temporary access road scheduled to be in place?

By the end of June 2022

c. When is the GST supposed to be completed?

December 31, 2022

45. Drawing Sheet 1 – regarding Contract 22-04. Can the following information be provided?

a. Has the project been tendered?

No

b. If the project has not been tendered, is it currently out for bid?

No

c. If the project is not out for bid, when is the bid date expected?

Summer 2022

46. Drawing Sheet 1 – regarding Contract 22-04. Can the following information be provided?

a. When is the contract expected to start?

Fall 2022

b. When is the water line supposed to be completed by?

December 31, 2022

47. Regarding the demolition of the house. Can the following information be provided?

a. Will the house be completely removed including any buried foundations?

House will be completely removed, including foundation and basement.

b. Will any removed foundations / basement voids, etc., be suitably backfilled?

Backfill will be from dirt obtained on site, compacted in 6" lifts.

c. Please confirm also supplementary removal works such as septic tanks (if any), septic beds (if any) fuel tank (if any), wells (if any), etc., will also be removed, decommissioned, etc., as part of the house removal.

Septic system is east of the house and outside the construction limits of the tank project.

48. Drawing Sheet 1 – is fill borrow available either on site or from the adjacent properties?

The City of Henderson owns the 98 acres of remaining property north of the Pratt Paper development and fill material may be borrowed from that property.

49. Drawing Sheet 1 – can the proposed grades be altered (either temporarily or permanently) to allow more accessible site for large construction equipment?

Yes.

50. Drawing Sheet 1 – is there any temporary room available outside of the 160 x 200 limits for staging of materials and/or equipment?
Yes, City owns 98 acres of property, and any of that which is suitable for laydown of materials, storage, etc., may be used. Specifically, there is a relatively flat area to the north of the proposed tank that has good access from Old Corydon Road, which may be used.
51. The GST Contract drawings issued with Addenda 3 shows 4 boreholes under the location of the elevated tank that are not shown on our Contract 22-02 drawings. Can logs for BH's 13 through 16 be provided? Also, please confirm if the current recommendations are still the basis of bid or have the recommendations changed to reflect the BH's under the tank.
See Addendum No. 4 revised geotechnical report.
52. Drawing Sheet 2 – Foundation Section shows the incoming waterline passing through the foundation, this is not recommended/possible. Typically, we route the incoming waterline under the pile cap, between the piles. The other option is to route the incoming waterline over the pile cap, which requires the foundation deeper than required by design, and of course, adds significant costs. Please confirm the waterline can pass under the pile cap.
The water line shall pass through or be located above the pile cap. If the water line passes above the pile cap, it may either be below grade or above grade. If above grade, it shall be insulated including a stainless steel insulation jacket from the exterior of the elevated tank support structure to the point where the water line becomes buried.
53. Drawing Sheet 2 shows an upper return at the intersection of the tank side wall and the tank roof. It is not described or dimensioned on Sheet 2 or in Section 5 of the specifications. An upper return adds significant cost. Is an upper return required? If required, we suggest the industry standard dimension of 1'-6" H / 2'- 6" V.
If an upper return is used, it shall be the Tank Contractor's standard design.
54. Drawing Sheet 2 shows a 98'-0" ft diameter tank. While we will be close to this dimension we will surely vary. Tank diameter is determined by volume and head range. Please confirm this dimension as +/-.
This dimension may vary slightly by Tank Contractor.
55. Drawing Sheet 2 Section View says "ultrasonic level transducer to be installed by others" – who supplies this?
The Owner will supply and install the ultrasonic level transducer.
56. Section 1, Item 13 Permits. Is a building permit required for the project or for just the elevated tank? If required, will the fees be waived, or can a fee schedule be provided?
See Addendum No. 3.

57. We note on IB-3 Page IB-3, Para 10. If the low bid is within the Owner's budget, the Contract will be awarded to the lowest responsive and responsible bidder. However, on IB-4 it states the Owner intends to award the Contract to the Contractor on the basis of "best value" and Best value scoring is subject to Reciprocal preference for Kentucky resident bidders. The is only one tank bidder that is a Kentucky resident bidder and they would seem to get an advantage over other the tank bidders. We have bid and sold a number of elevated tank projects in Kentucky and have never seen this included before. We ask this be deleted from the evaluation of the "best value " evaluation.

To help contractors residing in their state, some states will add a percentage to all out-of-state bids for evaluation purposes. This gives the "local" state's vendors a preference (advantage). Kentucky reciprocal preference law says that, if a bidder is from a state that would increase the evaluation price of KY bidders, then KY will apply that same percentage rule to all bidders from that state (for evaluation purposes) and, therefore, give KY bidders a "preference". This does not change any of the monies paid, it just changes the amounts listed on the bid evaluation and only applies if the vendor's state has a preference law.

**58. On our site visit we noticed the two residential houses near the elevated tank site. One house will be demolished and removed. Can we use the residential drive to access the elevated tank site rather than driving all the way around the big project site on the "temporary access" road?
No. This driveway cannot be used to access the site.**

59. Clarification - The FAA determination will need to be updated when the actual height of the elevated water storage tank is known.

**60. Our standard elevated water storage tank design includes a dome roof. Is our standard dome roof design acceptable?
Yes.**