

ADDENDUM # 2
February 29, 2024

Bon Heur Pump Station Rehabilitation
St. Clair Shores, Michigan

Project No. WWS-2022-007

To all bidders: On behalf of the OWNER, this ADDENDUM to the Bidding Documents is issued to you by the Engineer for the Project described above. Acknowledge receipt of this Addendum in the space provided in Article 5 of the Bid Form. Refer to attachment #1 for responses to questions received.

The following changes and/or clarifications shall be incorporated in the Bidding Documents of the Project and the cost, all inclusive, thereof shall be included in the associated amount shown on each Bidder's Proposal:

Item 1 – Sheet A-102 protective coating reference

DELETE the note on plan sheet A-102 pointing to the hatching at the influent channel that currently states

“PROTECTIVE COATING. REFER TO SECTION 09 98 00” and

REPLACE with

“PROTECTIVE COATING. REFER TO SECTION 09 96 56”

Item 2 – Reference Drawings

ADD the following after Section 00 31 17, Article 1, Section 1.01 B.2.

“3. Survey and 3D Scan of Martin Drain & Bon Heur Pump Station Effluent Pipe”

Note that this document and all other reference documents are available by contacting Steve Wagner at steven.wagner@macombgov.org.

Item 3 – Cowling Replacement

DELETE the notes on plan sheet D-002 pointing to screw pump equipment demolition

“REMOVE 78” ARCHIMEDES SCREW PUMP, DRIVE, AND MOTOR (TYP 2)”,

“REMOVE 102” ARCHIMEDES SCREW PUMP, DRIVE, AND MOTOR (TYP 2)” and

REPLACE with

“REMOVE 78” ARCHIMEDES SCREW PUMP, DRIVE, COWLING, AND MOTOR (TYP 2)”,

“REMOVE 102” ARCHIMEDES SCREW PUMP, DRIVE, COWLING, AND MOTOR (TYP 2)”

Item 4 – Screw Pump Revisions

DELETE Section 43 21 00.18 Section 1.04.B.2.a in its entirety and

REPLACE with

“a. One high speed coupling.”

DELETE the text “V-belt drive” from Section 43 21 00.18 Section 2.05.A.1

DELETE the last sentence "Pump manufacturer to furnish a suitable screed and additional sheaves and belts, as necessary, to operate screw at a reduced speed for screeding concrete fill in trough with screw pump." from Section 43 21 00.18 Section 3.01.B and

REPLACE with

"Pump manufacturer to furnish all equipment, as necessary, to operate screw at a reduced speed for screeding concrete fill into trough with screw pump.

DELETE the LIFT value on the Process Pump Schedule on sheet P-301 "21.56" and

REPLACE with

"25.56"

DELETE Note 3 on the Process Pump Schedule on sheet P-301 and

REPLACE WITH

"3. PUMP LIFT IS PROVIDED AS CHUTE ELEVATION MINUS WET WELL INVERT."

DELETE the text "21,407 lbs." from Section 43 21 00.18 Section 2.01.C.2.a and

REPLACE with

"27,100 lbs."

DELETE the text "8,000 lbs." from Section 43 21 00.18 Section 2.01.C.2.c and

REPLACE with

"9,100 lbs."

Item 5 – Division 1 Specification References

In order to resolve inconsistencies in references to Division 1 sections, please apply the following to all specification sections:

DELETE section reference of "01 33 00" and

REPLACE with "01 30 00"

DELETE section reference of "01 41 20", "01 43 00", "01 75 13" and

REPLACE with "01 40 00"

DELETE section reference of "01 61 00" and

REPLACE with "01 78 23"

DELETE section reference of "01 66 00" and

REPLACE with "01 60 00"

DELETE section reference of "01 77 00" and

REPLACE with "01 70 00"

END OF SECTION 00 91 13-B

Bon Heur Pump Station Bidder Questions 2-29-24

Questions/Notes:

1. Can additional site visits be arranged?

Response: Additional site visits may be coordinated through Vince Astorino at vincent.astorino@macombgov.org. Note any preferences for day and time as well as specifics on what areas are desired to see. No site visits will be conducted after 3/13/24

2. The General Note on Drawing A-102 states that the interior concrete surfaces noted are to receive a protective coating per specification 099800, but no such specification was provided with the bid documents. What specification relates to this work?

Response: Reference in sheet A-102 is incorrect and should reference Section 09 96 56.

3. The contract documents included two concrete coating specifications. Specification "09 96 56 Concrete Coatings" was included with the original bid document package and specification "09 96 00 High Performance Coatings" was issued with Addendum 1. Was 09 96 00 intended to replace 09 96 56? If not what specific work items are covered by each specification?

Response: The intent is for 09 96 56 to cover concrete coatings as referenced in sheet A-102 (incorrectly noted as 09 98 00). The newly provided section 09 96 00 is intended for other miscellaneous coatings as referenced elsewhere in contract documents.

4. In order to properly evaluate the areas to be coated and the bypass system that will be needed to support the work, please provide the bidders with an electronic copy of the following drawings listed in Specification 00 31 17:

- a. **Bon Heur Pump Station (Martin Pump Station) Construction – As-Builts (1984)**
- b. **Bon Heur Pump Station Rehab (2016 SRF Northeast Relief Sewer Rehabilitation of Pump Stations– Issued for Bid (2015)**

Response: Reference documents will not be attached to addenda but can be requested separately by contacting Steve Wagner at steven.wagner@macombgov.org.

5. I noticed on Sheet A-102 under the General Note that it stated all surfaces to be coated in accordance with Section 09 98 00. I cannot find this section in the specs. Should I just be looking at Section 09 96 56.

Response: Yes, reference in drawings is incorrect and should reference Section 09 96 56.

- 6. It appears that bypass pumping will be necessary to complete the concrete repairs and installation of the new slide gates located in the influent wet well. The specification flood index indicates there is a specification 333000 bypass pumping. However, no such specification is included in the documents. Please provide a copy of the specification. If the specification does not include the average and peak dry weather flow rates and the expected dry weather HGL in the wet well please provide this information so we can properly size the bypass pumping system.**

Response: The expectation is that bypass pumping will not be required to complete the improvements within the wet well. The Owner and Contractor will coordinate during construction to accomplish a dry-weather gravity diversion and/or wet well isolation. This has been accomplished before by turning off the wet well and storing flow until flow diverts to the Jefferson Interceptor through the 11 Mile gate structure. The same concept can be accomplished by plugging or temporarily bulkheading the influent pipe. A brief write-up of this from previous testing can be found within the available information.

- 7. If bypass pumping is required will the contractor be allowed to use the existing MH in the 60-inch influent sewer as a temporary wet well for the bypass pumps. This will require lane closures in Harper Avenue**

Response: See response above.

- 8. Recommendation for alternative coating materials for motor room.**

Response: Note that coating per 09 98 00 excludes the motor room, but includes classified space (wet well, influent channel, discharge channel) Bid the protective coatings as specified.

- 9. Please confirm that field testing of the screw pumps involves start-up type equipment checkout and that flow capacity measurement is by others.**

Response: Start-up equipment checkout is required. Flow capacity measurement can be accomplished via existing pump station meter or proposed flow meter installed as part of this project, if operational.

- 10. Can the bid due date be extended two weeks?**

Response: This question was asked prior to issuance of Addendum #1. Bid date was extended in Addendum #1 to March 20, 2024.

- 11. To access the screws, we will need to remove the roof, we need roofing specification, drawings and details to restore the station back to function.**

Response: Roof drawings are provided in reference documents. Reference documents will not be attached to addenda but can be requested separately by contacting Steve Wagner at steven.wagner@macombgov.org.

12. At the point where the screws drive shaft passes through the wall to the motors there is a sheet metal cowling, do you want us to re-use the existing or provide new cowlings. If new, can we have a construction detail?

Response: Refer to Section 43 21 00.18 Section 2.09 for requirements. The intent is to match existing to the extent possible based on Contractor selected screw pump equipment. Available reference drawings may be reviewed for information on existing conditions.

13. Can we get as-built drawings for the existing wet well gates?

Response: Reference documents will not be attached to addenda but can be requested separately by contacting Steve Wagner at steven.wagner@macombgov.org.

14. Is there a crane weight limit for the driveway adjacent to the pump station?

Response: Crane limitations will be clarified in subsequent addenda.

15. Sec 00 31 17 Available Information. Where are these documents found?

Response: Reference documents will not be attached to addenda but can be requested separately by contacting Steve Wagner at steven.wagner@macombgov.org.

16. Section 422100.18 paragraph 2.05.D.1 & 2 describe a directly connected gearmotor. This does not match the spare parts description in paragraph 1.04.B.2.a, Screw Pump construction description in paragraph 2.05.A.1, and paragraph 3.01.B. I just want some clarity on what type of drive is required. If a direct connected drive assemblies are required, we ask that V-belts verbiage be removed from the specification and the V-belt spare parts be replaced with a high speed coupling for the motor.

Response: Directly connected gearmotors are intended. Sections referencing v-belts will be edited.

17. Drawings "E-401, E-501 & E-502" show VFDs for the 78-inch Screw Pumps and RVSS motor starters for the 102-inch Screw Pumps. If the project requires gearmotors for all pumps, VFDs would be recommended for all pumps to allow slower grouting speeds. Otherwise the contractor will need special equipment for grouting which would add cost.

Response: VFD's are not intended for 102" screw pumps. Equipment necessary for grouting should be provided.

18. Drawing "P-301" shows different design pump lift for each pump. With a wet well invert EL.555.14' and chute EL.580.70' for both pumps, we ask that both design pump lifts be 25.56'.

Response: Original values were intended to reflect different filling points. Lift will be revised to 25.56' for all pumps and clarified via note.

19. Drawing "P-301", Note #3 states that all pumps shall use a two(2) flight design. Per our last pump sizing these pumps require three(3) flights for capacity and deflection minimization.

Response: Will revise/remove two flight design note.

20. Section 422100.18 has references to other specification sections that are not included in the document. (Sections 013300, 016100, 014300, 016610, 014120, & 262010) We ask that these specification sections be provided.

Response: References within this section will be corrected. Refer also to Addendum #1.

21. Section 422100.18, Paragraph 2.01.C.2.a & c specify a maximum pump weight of 21,407 lbs. and a drive weight of 8,000lbs. We believe this may have been a carryover from the two(2) flight design. We ask that the maximum (pump + bearings) weight be increased to 27,100 lbs. and the drive weight be increased to 9,100lbs.

Response: Will revise pump weights.