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Addendum 3
Solicitation 23-99147
Enger Golf Course Pump Station

This addendum serves to notify all bidders of the following changes to the solicitation documents:

The following questions asked are answered in red italics below:

Question #1:

- a. In the section labeled Manufacturer Requirements/ Instruction to Bidders item# 7 it states that the contractor must supply, deliver, start-up and winterize the new golf course irrigation pump station. It does not mention the contractor assembling the components of the pump station or installing the pumps in the pump station. *As indicated in Section 1.02A and 2.01 F, the pump station is prefabricated. It shall be manufactured at the pump station manufacturer's facility and shipped complete to the golf course.*
- b. Under the Manufacturer Requirements/ Instruction to Bidders item #8 it states that the owner is responsible for the pump station installation. *Correct; under a different bid.*
- c. In Section 00 41 00 Manufacturer's Bid form Part 2.02 Bid Items, it does not mention that the contractor is responsible for assembling the pump station. It only states to deliver the pump station and enclosure, labor and materials to fully manufacture the pump station, labor and materials for start-up and testing and winterization. This section does not mention who is responsible to assemble the pump station. *See answer above.*
- d. In Section 01 11 00 Summary of Work 1.01 Description sub section A also does not mention who is responsible for assembling the pump station. *See answer above.*
- e. In Section 01 11 00 Summary of Work 1.02 Scope also does not mention who is responsible for assembling the pump station. The contractor is only responsible for deliver, manufacturer and start-up the pump station. No mention of who is responsible for assembling the equipment in the pump station. *See answer above.*
- f. It needs to be clarified if the contractor is going to off-load and assemble the pump station or is the City of Duluth going to be doing that work. *See answer above. Off load is by others.*

Question #2

- a. Under the Manufacturer Requirements/ Instruction to Bidders item #8 it states that the

owner (City of Duluth) is responsible for the High voltage power supply connections. In Section 328410 Pump Station and Enclosure Part 1.02 Work Included subsection B it states that the Main electrical connection shall be by the installing contractor. However, there is a separate project bid 23-99146 Enger Golf Course Electrical Supply. In Section 328410 Pump Station and Enclosure Part 2.01 General subsection C it states that the power supply shall be brought to the pump station by the contractor. *By the installing Contractor under a separate bid; not the Manufacturer.*

- b. It needs to be clarified if the pump station provider is responsible for connecting power between the transformer and the external disconnect switch on the pump station or if that scope of work is covered by the project bid 23-99146. *No – it is a separate bid as referenced.*

Question #3

In Section 328410 Pump Station and Enclosure Part 1.07 Warranties subsection D it states Manufacturer shall perform the first year (2025) spring start up and fall winterization (2024) following acceptance of the pump station to maintain the warranties. It needs to be clarified that the spring start-up is in the spring of 2024 not 2025. *It is dependent on the project schedule but most likely 2025 as the initial startup is not part of the warranty.*

Question #4

In Section 328410 Pump Station and Enclosure Part 2.03 Vertical Turbine Pumps Subsection A, it states that the impellers shall be bronze construction. Pump manufactures are using stainless steel impellers instead of bronze because of the lead that is used in the bronze manufacturing. Are stainless steel impellers acceptable?? *Stainless steel impellers are acceptable.*

Question #5

In Section 328410 Pump Station and Enclosure Part 2.03 Vertical Turbine Pumps Subsection A, it states that the pump bowl material shall be cast iron. In Addendum 2 it states that the bowl material shall be Ductile Cast Iron. There is Ductile Iron and there is Cast Iron. Cast iron pumps can easily handle the 150 psi design pressure. There is no need to pay the extra expense for ductile iron pump bowls. It needs to be clarified if the pumps should be Ductile Iron or Cast Iron. *Ductile iron bowls are required.*

Question #6

In Section 328410 Pump Station and Enclosure Part 2.03 Vertical Turbine Pumps Subsection A, states that the pump strainers shall be galvanized heavy basket type. Galvanized basket strainers tend to last only about 5-10 year before they corrode. It is recommended that stainless steel basket strainers are used on this project and stainless-steel strainers are the standard type of strainer. *Galvanized or stainless steel are acceptable.*

Question #7

In Section 328410 Pump Station and Enclosure Part 2.03 Vertical Turbine Pumps Subsection C, states that the turbine pumps shall have a 15 foot set from the bottom of the strainers to the top of the pump pedestal skid support. However, in Section 328410 Pump Station and Enclosure Part

2.01 General Subsection K, it states that for bidding purposes, pump station wet well is approximately 15 feet deep. The pump strainer should be at least 1 – 2 feet off the bottom of the wet well. *The set includes the skid height which raises the pumps off the bottom of the wet well. Final set will be confirmed after wet well installation/construction.*

The total length of the pump needs to be clarified.

Question #8

In Section 328410 Pump Station and Enclosure Part 2.07 Relief Valve Subsection A, it states that the relief valve should have rectangular seat disc. Relief valve have a circular seat disc not a rectangular seat disc. This needs to be corrected to reflect a circular seat disc. *Release valve shall be Cla-val as specified or equal with circular or other shape disc as manufactured. Not all manufacturers are circular.*

Question #9

In Section 328410 Pump Station and Enclosure Part 2.12 Pipe and Fittings Subsection C & D, it states that the pump station contractor shall be responsible for installing the 8" X 12" dogleg pipe to the irrigation main line and that they should also be responsible for installing the 3" X 4" dogleg pipe for the wye strainer. However, there is a separate project bid 23-99145 Enger Golf Course Irrigation Improvements. Included in the scope of the project 23-99145 it calls for the winning contractor to connect to the pump station. The irrigation contractor is better suited to connect the dogleg piping and the irrigation mainline to the pump station rather than the pump station provider having to dig a hole for the dogleg installation before the irrigation contractor is ready to connect their piping. *Dogleg connections are under a separate bid.*

In Section 328410 Pump Station and Enclosure Part 2.31 Dogleg Fittings Subsection A & B, it states that dogleg fittings shall be flanged connected to pump station discharge by others. Once again it is best if the irrigation contractor that is performing the underground work makes the final connections to the pump station. *Dogleg connections are under a separate bid.*

Question #10

In Section 328410 Pump Station and Enclosure Part 2.14 Drains Subsection A, states that ¼" ball valves are to be used as drains. It is recommended that ½" or ¾" ball valves are used as drain valves because they are less like to clog up with debris. *The pump station manufacturer's standard drain valve size should be used.*

Question #11

In Section 328410 Pump Station and Enclosure Part 2.34 Inlet Strainer Subsection B, states the inlet strainer shall be provided by the pump station manufacture and shall be shipped separately ahead of the pump station. Who is responsible for installing the inlet strainer in the pond? This needs to be clarified. *Installed under separate contract.*

Question #12

In Section 328410 Pump Station and Enclosure Part 3.02 Pump Station Installation Subsection A, it states that the pump station shall be installed on a new concrete pad provided by the installing contractor. Under the Manufacturer Requirements/ Instruction to Bidders item #8 it states that the

owner (City of Duluth) is responsible for the wet well and concrete pad installation. It needs to be clarified who is responsible for the installation of the wet well and concrete pad. *City of Duluth will have the pump station and enclosure installed under a separate contract.*

Question #13

Regarding VTP Pumps:

- a. Can the column pipe be threaded or flanged? *Specifications are threaded*
- b. Can the discharge head be ductile iron, cast or steel? *Pump discharge requires a 60,000-pound tensile strength rating. Discharge header shall be steel.*
- c. Will you accept 316ss impellers? *Yes*
- d. With a pump length of approximately 15', minimal shaft stretching will be encountered. Impeller shaft height setting can be adjusted based on shaft stretch calculation and set accordingly not to perfect performance. This would negate the need for perihedral seals. *Seals shall be of composite material, as well as bearings every 5 to 7 feet along the shaft.*
- e. Motors manufactured in the US....vertical motors are not being mass-produced in the US so this may be impossible to meet. Can the motor be assembled in the US with parts sourced from outside the US? *Yes*

Please acknowledge receipt of this Addendum by checking the acknowledgment box within the www.bidexpress.com solicitation.

Posted: **April 5, 2023**