GFA
123 West Front Street
Traverse City, Michigan 49684

Date: August 9, 2021

**ADDENDUM NUMBER 1**

| PROJECT | BIDS DUE | |
|---|---|---|
| GFA Project No: 21309 | Date: | August 17, 2022 |
| City of Clare WWTP – UV Disinfection Replacement RFP | Time: | 3:00 PM |
| | Location: | City of Clare<br>202 West Fifth Street<br>Clare, MI 48617 |

The Addendum is issued prior to the receipt of bid proposals to amend the Contract Documents as follows. Bidders shall acknowledge receipt of this addendum by means of a handwritten note on the Bid Schedule.

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SPECIFICATIONS

Section 11397, Part 1.02.C: Quality Assurance section shall be stricken in its' entirely and replaced with the following:

C. The ultraviolet disinfection system shall be as manufactured by Glasco UV, WEDECO or approved equal and shall only incorporate low pressure lamp technology (no amalgam systems will be acceptable).

Section 11397, Part 1.05.C: System Description section shall be stricken in its' entirely and replaced with the following:

C. Influent Characteristics to Disinfection
   a. The UV disinfection system shall be designed to disinfect at the flow rates and with the characteristics shown below per chamber:
      i. Peak Flow Per Unit (MGD) 0.675
      ii. Firm Capacity of System (MGD) 1.35

Section 11397, Part 2.07.B: Ballast Control Cener / System Control Center – Electrical section shall be stricken in its' entirely and replaced with the following:

B. The Each chamber shall be powered from a single central Ballast Control Center (BCC). Power requirement of **120V, 1ph, 60hz, 30 amps** shall be provided per chamber.

Section 11397, Part 2.08.B: UV Control System section shall be stricken in its' entirely and replaced with the following:

B. There shall be one control panel (System Control Center) compatible with Opto PLC such as Compact Logix that collects signals necessary for each vessel in the disinfection package.
   1. Each I/O module shall have individual fused inputs and outputs to protect and isolate each input or output.
   2. PLC shall control the automatic quartz wiping system, provide UV output from the UV sensors, and monitor the temperature of the electronics.
   3. The OIT display screen will be menu driven with automatic fault message windows appearing upon alarm conditions.
   4. PLC will turn units based on signal from flow valves. Each valve will be opened at intervals of .65 MGD flow signal to the valves by others. WWTP Ultraviolet Disinfection Equipment Replacement
   5. PLC will control will turn units on via a flow signal by other
      i. Unit one will come on at any flow from 1 to 0.675 MGD
      ii. Unit two will come on any flow over 0.675 MGD to 1.35 MGD
      iii. Unit three will come on any flow past 1.35 MGD

6. The lead unit will be switched by the PLC on a time interval, so the lamps wear evenly.
7. The PLC will accept information from the flow control gates and send their status to the plant SCADA (PLC).
8. Contractor to coordinate with Perceptive Controls for all system integration.

This Addendum No. 1 becomes part of the Contract Documents as of this date and supersedes the information in the originally issued Contract Documents where applicable. The Contractor shall acknowledge receipt of the Addendum in the Bid Schedule included with his/her bid.