ADDENDUM NO. 1

PROJECT MANUAL

ALTERNATIVE WATER SOURCE PROGRAM
JOL0801–SCADA SYSTEM UPGRADES
CITY OF JOLIET, ILLINOIS
CONTRACT 2722-0923

Note: Change in Bid date.

Bids will be received until Thursday, **August 31, 2023**, at 10 A.M., local time.

This Addendum to the Project Manual is issued to modify, explain, or correct the original Project Manual and is hereby made part of the Contract Documents. Insert the number of this Addendum in the blank space provided in the Bid, page 00 41 00-2.

A. DIVISION 00–BIDDING AND CONTRACTING REQUIREMENTS

1. SECTION 00 11 13–LEGAL NOTICE

   a. Page 00 11 13-1, Paragraph 2.

   CHANGE the Bid date from “August 17, 2023,” to “August 31, 2023.”

2. SECTION 00 21 13–INSTRUCTIONS TO BIDDERS

   a. Page 00 21 13-6, ARTICLE 7–INTERPRETATIONS AND ADDENDA, 7.02.

   CHANGE “three days” to “one day.”

3. SECTION 00 41 00–BID

   a. Page 00 41 00-1, ARTICLE 1–BID RECIPIENT, 1.01.

   CHANGE the Bid date from “August 17, 2023,” to “August 31, 2023.”

   b. Page 00 41 00-6, ARTICLE 6–TIME OF COMPLETION, 6.01.

   CHANGE “515” to “605” and “545” to “635.”

4. SECTION 00 52 00–AGREEMENT

   a. Page 00 52 00-2, Article 4.02–CONTRACT TIMES.

   CHANGE “515” to “605” and “545” to “635” in Paragraph 4.02.

   CHANGE “$2,500” to “$500” and “$2,300” to “$300” in Paragraphs 4.03.a.1 and 2.

B. SPECIFICATIONS

1. DIVISION 26–ELECTRICAL

a. Page 26 09 00-3, SECTION 26 09 00–CONTROLS AND INSTRUMENTATION, PART 1–GENERAL, 1.02.C.

REPLACE Paragraph 1.02.C with the following:

"C. System Supplier shall obtain the services of ENGINEER for development of the SCADA System HMI computer graphics as specified herein. System Supplier shall be responsible for all OIT graphics programming."

b. Page 26 09 00-8, SECTION 26 09 00–CONTROLS AND INSTRUMENTATION, PART 1–GENERAL, 1.10.B.

CHANGE "two days and two nights" to "five days and four nights" in the first sentence.

c. Page 26 09 00-9, SECTION 26 09 00–CONTROLS AND INSTRUMENTATION, PART 1–GENERAL, 1.10.C.

ADD the following to the end of Paragraph 1.10.C:

"The thin clients (at least two) and server shall be temporary equipment equivalent to the existing equipment and shall run the existing VTScada graphics application. Mock-up shall also include the Ethernet radios and shall simulate the entire east or west side of the radio network. The east and west sides of the radio network may be simulated separately to use the same radios for each test."

d. Page 26 09 00-28, SECTION 26 09 00–CONTROLS AND INSTRUMENTATION, PART 2–PRODUCTS, 2.12.B.

REPLACE Paragraph 2.12.B.2. and 2.12.B.3. with the following:

"2. Display Size: 12.1-inch.
3. Resolution: 1280 by 800, 18-bit color graphics."

e. Page 26 09 00-35, SECTION 26 09 00–CONTROLS AND INSTRUMENTATION, PART 3–EXECUTION, 3.03.H.2.

ADD the following after 3.03.H.2.:

"I. An allowance of 40 hours of programming time shall be included in the Bid for INTEGRATOR, ENGINEER, and OWNER to meet at the Westside WWTP to make modifications to the graphics and PLC programming in accordance with OWNER feedback. This is over and above the allowance for enhancement and modifications to the graphics and shall be assumed to occur following Substantial Completion, but prior to final completion."

f. Page 26 09 00-36, SECTION 26 09 00–CONTROLS AND INSTRUMENTATION, PART 3–EXECUTION, 3.04.F.

REPLACE Paragraph 3.04.F. in its entirety with the following:

"F. Refer to the Appendix for sample hard copies of OWNER's existing VTScada graphics."

g. Page 26 09 00-47, SECTION 26 09 00–CONTROLS AND INSTRUMENTATION, PART 3–EXECUTION, 3.20.B.

REPLACE Paragraph 3.20.B. with the following:

"B. Provide an OIT on the front door of this enclosure. An operator shall be able to access all data and change all setpoints available in this PAC from this OIT."

h. Page 26 09 00-49, SECTION 26 09 00–CONTROLS AND INSTRUMENTATION, PART 3–EXECUTION, 3.23.B.

REPLACE Paragraph 3.23.B. with the following:

"B. Provide an OIT on the front door of this enclosure. An operator shall be able to access all data and change all setpoints available in this PAC from this OIT."

i. Page 26 09 00-70, SECTION 26 09 00–CONTROLS AND INSTRUMENTATION, PART 3–EXECUTION, 3.59.B.

DELETE Paragraph 3.59.B. in its entirety.

j. Page 26 09 00-71, SECTION 26 09 00–CONTROLS AND INSTRUMENTATION, PART 3–EXECUTION, 3.63.B.

REPLACE Paragraph 3.63.B. with the following:

"B. Provide an OIT on the front door of this enclosure. An operator shall be able to access all data and change all setpoints available in this PAC from this OIT. In addition to local data and setpoints, this OIT shall also be able to access and make changes to the Fairmount & Garvin Reservoir matrix and the Ridgewood Zone matrix as described under SCC-Master. This OIT shall also display data that is relevant to these matrices such as the Parkwood Tank Level and the running signals for each of the gravel and rock well sites."

k. Page 26 09 00-74, SECTION 26 09 00–CONTROLS AND INSTRUMENTATION, PART 3–EXECUTION, 3.66.A.

ADD the following new paragraph after Paragraph 3.66.A.:

"An operator shall be able to access all data and change all setpoints available in this PAC from the new OIT on the front door of this enclosure."

l. Page 26 09 00-75, SECTION 26 09 00–CONTROLS AND INSTRUMENTATION, PART 3–EXECUTION, 3.67.A.

ADD the following new paragraph after Paragraph 3.67.A.:

"An operator shall be able to access all data and change all setpoints available in this PAC from the new OIT on the front door of this enclosure. In addition to local data and setpoints, this OIT shall also be able to access and make changes to the Southeast Zone matrix as described under SCC-Master. This OIT shall also display data that is relevant to this matrix such as the Racetrack Tank Level and the running signals for each of the Washington Street Booster Pumps."

m. Page 26 09 00-77, SECTION 26 09 00–CONTROLS AND INSTRUMENTATION, PART 3–EXECUTION, 3.69.A.

ADD the following new paragraph after Paragraph 3.69.A.:

"B. An operator shall be able to access all data and change all setpoints available in this PAC from the new OIT on the front door of this enclosure."

n. Page 26 09 00-78, SECTION 26 09 00–CONTROLS AND INSTRUMENTATION, PART 3–EXECUTION, 3.72.B.

REPLACE Paragraph 3.72.B. in its entirety with the following:

"B. Booster Pump Control: Provide a SCADA Local-Remote selector switch for control of the booster pumps at this station. In SCADA "Remote," the pumps shall be controlled as described under SCC-Master and, if communication between SCC-651-1-2 and the Master Telemetry PAC fails, control shall switch to Local mode. In SCADA "Local," the pumps shall be controlled as described below. Logic for the SCADA Local-Remote selector switch and local control described below shall be in SCC-651-1-2 and not dependent on communication with the master. For Booster Pumps No. 1 through No. 3 (BP-652-0-1 through BP-652-0-3), provide an operator-selectable SCADA Hand-Off-Pressure switch in SCC-651-1-2 for each booster pump.

1. In SCADA Hand, the pump shall start and run continuously.
2. In SCADA "Pressure," provide a three-stage matrix in SCC-651-1-2 for control of Washington Street Booster Pumps No. 1 through No. 3. Each pump may be assigned to any of the stages of the matrix. Operator shall make stage selections through the SCADA system. It shall not be possible to assign more than one pump to a stage.
    a. Booster pumps shall be controlled by the local discharge pressure (PT-652-0-3) based on operator-adjustable "Start" and "Stop" pressure setpoints (0 to 150 psi) for each stage. In addition, operator-adjustable common setpoints for "Minimum Pump Runtime" (0 to 30.0 minutes) and "Control Time Delay" (0 to 30.0 minutes) shall be included.
    b. When a pump is called to run from the associated matrix stage, it shall run for the minimum pump runtime setpoint. If the stage stop setpoint is reached before the minimum runtime has expired, the pump shall continue to run for the minimum runtime.
    c. As the discharge pressure falls and remains below the Stage 1 start setpoint for the control time delay, all pumps selected for Stage 1 shall be called to run. The pump(s) shall continue to run until the pressure rises and remains above the Stage 1 stop setpoint for the control time delay. After Stage 1 is active, if the pressure continues to fall and remain below a stage start setpoint for the control time delay, the pump(s) selected for that stage shall be called to run. The pump(s) shall continue to run until the pressure rises and remains above the associated stage stop setpoint for the control time delay. This shall continue through all the stages if necessary. The active stage shall be indicated at the SCADA system.
3. The above control shall be programmed in SCC-651-1-2."

C. DRAWINGS

1. SHEET NO. G001–COVER SHEET

REPLACE Sheet G001 with the attached revised Sheet G001.

2. SHEET NO. 000-E102–FAIRMOUNT & GARVIN ELECTRICAL PLANS

   ADD Keynote H referencing the underground electrical lines between the generator, transfer switch, and SCC-111-0-1 on the Fairmount and Garvin Site Plan as follows:

   "H. SAWCUT EXISTING ASPHALT/CONCRETE AS REQUIRED FOR INSTALLATION OF UNDERGROUND ELECTRICAL WORK. ASPHALT/CONCRETE SHALL BE CUT ON NEAT, PARALLEL LINES AND SHALL NOT BE DAMAGED BEYOND THE LIMITS OF CONSTRUCTION. SIDEWALK SHALL BE REMOVED ALONG CONSTRUCTION JOINTS. PROVIDE BASE COURSE AND REPLACE ASPHALT/CONCRETE TO MATCH EXISTING."

3. SHEET NO. 000-E702–INTERMEDIATE SCADA RISER

   ADD the following note on each of the two proposed antenna cables between the proposed radios and associated proposed antennas at Rock Run Tank:

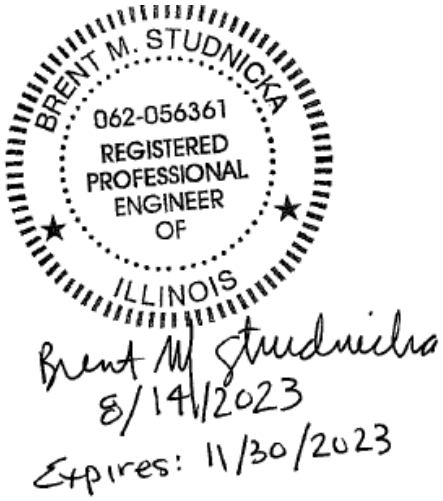
   "PROVIDE NEW 2" CONDUIT BETWEEN THE ROCK RUN VALVE BUILDING AND THE ROCK RUN ELEVATED TANK FOR ANTENNA CABLES. PROVIDE PENETRATION THROUGH EXISTING TANK STRUCTURE. SYSTEM SUPPLIER SHALL CONTACT THE TANK MANUFACTURER TO OBTAIN CONFIRMATION THAT ANY NEW PENETRATIONS WILL NOT COMPROMISE THE STRUCTURAL INTEGRITY OF THE TANK. CONTRACTOR SHALL PROVIDE PENETRATION DETAIL FOR APPROVAL PRIOR TO INSTALLING CONDUIT."

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BIDDERS MUST ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED IN THE BID FORM

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Dated at Joliet, Illinois
August 14, 2023



STRAND ASSOCIATES, INC.®
IDFPR No. 184-001273
1170 South Houbolt Road
Joliet, IL 60431

ALTERNATIVE WATER SOURCE PROGRAM

JOL-08-01 - SCADA SYSTEM UPGRADES

ISSUED FOR BID

CONTRACT NO. 2722-0923

IDFPR NO. 184-001273

2023.07.06

BRENT M. STUDNICKA
062-056361
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

Brent M Studnicka
8/14/2023

Expires: 11/30/2023

CITY OF JOLIET
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