

**ADDENDUM #1****Dated: January 19, 2018****Three Springs Water Treatment Plant  
Finished Pumping Station**

1. The attached minutes of the Pre-Bid Conference held on January 9, 2018 are an integral part of the Contract Documents.
2. Attention is drawn to the following statement included in the Advertisement for Bids:  
**“All Bidders must purchase official complete sets of Contract Documents. Documents obtained online or via other sources shall not be used for bidding.”**

**Changes to Technical Specifications**

1. Revise Section 11240 – “Chemical Feed Equipment”, Add the following Paragraph 2.3
  - 2.3 Fluoride Storage Tank: Contractor shall provide one new 1,000 gallon double wall storage tank for hydrofluorosilic acid. Tank shall be double wall, vertical, high density linear polyethylene, one-piece seamless construction, cylindrical in cross-section rated for liquids up to 1.9 specific gravity. The material used shall be virgin polyethylene resin as certified by the manufacturer as NSF 61 approved for contact with chemicals used in potable water treatment. Exterior tank shall provide a minimum 110% containment of the interior tank liquid storage capacity. Bottom outlet fitting shall provide seal to both tanks. Fitting, gasket, and bolt materials shall be of material intended for use with hydrofluorosilic acid, as recommended by the tank manufacturer and approved by the Engineer. Tank shall include a top access manway, and top fill and vent pipe connections which will be plumbed to the building exterior. Tank shall have 1,000 gallons liquid storage capacity as indicated on the plans and shall be designed for use with 23% hydrofluorosilic acid. Approximate tank outside dimensions shall be 6’-5” diameter and 6’-7” tall. Tank shall include a graduated reverse float level gauge for visual indication of liquid level volume. Tanks shall be Poly Processing SAFE-Tank, or approved equal.
2. Revise Section 16050 – “Basic Electrical Materials and Methods”, Amend Paragraph 2.1.B as follows:
  - 2.1.B ... Rigid metal conduit shall be used for all conduit penetrations through and under slab and for buried main power wiring conduit. Conduit above slab within Fluoride Room shall be minimum schedule 40 PVC. Conduit above slab in Electrical Room may be EMT. Conduit in Pump Room for single phase devices may be EMT with compression style watertight connectors.
3. Revise Section 16482 – “Variable Frequency Drives” Paragraph 2.1.A to indicate minimum Nema 1 enclosures for drives and dV/dt filters. Filters may be located within drive enclosure or with separate enclosure.

4. Revise Section 16400 – “Low-Voltage Distribution” Paragraph 2.3.A to indicate minimum Nema 1 enclosure for the Surge Suppressor.

### **Changes to Plan Sheets**

1. Revise Sheet C01 as follows:
  - a) Revise “Abandoned Vault (To Be Removed)” label near Proposed Finished Water Station to indicate “Previously Demolished Vault”. Vault was demolished by Owner when the Abandoned Clearwell Above Grade Steel was removed.
2. Replace the previously issued Sheets C03 and C05 with revised sheets dated 1/19/2018. Changes show a new double wall fluoride storage tank to be provided by contractor, in lieu of relocating an existing storage tank. With the new double wall tank, the sump, handrail, and floor drain mud valve have been deleted. Fluoride room floor shall be constructed at same elevation as the remainder of the building. Fluoride Injection Detail on Sheet C05 has also been revised to indicate that a second injector shall be installed on the same pipe to allow temporary connection of hypochlorite feed, if needed.
3. Revise Sheet C06 as follows:
  - a) Delete Section “A”. The sump in the Fluoride Room has been deleted. Fluoride Room floor shall be constructed at same elevation as the remainder of the building.
  - b) Revise “Typical Roof Details” to indicate ½” Plywood Ceiling, in lieu of cement board.
4. Revise Sheet E01 as follows:
  - a) Revise “Lighting Fixture Schedule” to indicate the following manufacturer models for each designated “Type” in the table. Models to are indicated to demonstrate a standard quality. Approved equals will be allowed.  
  
Type “A” – Lithonia FEM-L48-6000LM-LPACL-MD-120  
Type “B” – Lithonia OFLR-6LC-120-P  
Type “C” – Lithonia LHQM-LED-R-HO-SD
  - b) Revise Note 8 as follows: “All enclosures and boxes within Electrical Room shall be minimum Nema 1 rated.”
  - c) Revise Note 9 as follows: “All enclosures and boxes within Pump Room and Fluoride Room shall be watertight suitable for wet locations. Boxes and enclosures within Fluoride Room shall be corrosion resistant PVC.”

5. Revise Sheet E02 as follows:
  - a) Revise “Panelboard FWH” schedule to add a 100 Amp, 3 Phase breaker for the Surge Protection Device.
  - b) Revise Note 3 as follows: “All enclosures and boxes within Electrical Room shall be minimum Nema 1 rated.”
  - c) Revise Note 4 as follows: “All enclosures and boxes within Pump Room and Fluoride Room shall be watertight suitable for wet locations. Boxes and enclosures within Fluoride Room shall be corrosion resistant PVC.”

### **Questions and Clarifications**

The following are responses to questions received following the Prebid Conference held on January 9<sup>th</sup>. Refer to the Prebid Conference Minutes for responses to questions received during the conference and following site visit.

1. *Question: Spec 16400-2.3A - Please clarify that the main service is referring to Panelboard “FWH” and not the entire plant service main .*  
Response: Correct, Paragraph 16400-2.3.A does apply to the power service to the new station (Panelboard “FWH”), rather than the service to the entire plant.
2. *Question: Spec 16400-2.3B - Please clarify requirements .*  
Response: Paragraph 2.3.B of that section is not applicable to the field electrical contract services of the station General Contractor. The SCADA Integrator (to be contracted directly by the Owner) will be responsible for TVSS in their RTU and for protection of all analog and digital signal suppression within the panel for connected components. Field instrumentation being provided by the General Contractor (mag meter, laser nephelometer, pH sensor, & controller) shall include manufacturer standard surge suppression (fuses) on the instrument.
3. *Question: Specification 16400 says, “SPD in NEMA 12 enclosure”. Panel “FWH” panel schedule does not show a breaker/space for a SPD or what size the SPD shall be. Please advise to size and breaker/space location of SPD.*  
Response: The “Changes to Plan Sheets” portion of this addendum includes a revision to Panelboard “FWH” schedule adding a breaker for the Surge Protection Device.
4. *Question: Panel Schedule for panel “FWH” does not indicate this panel being Service Entrance Rated. Does this panel need to be SE rated?*  
Response: Panel “FWH” does not need to be service entrance rated. It will be fed from the existing plant switchboard.
5. *Question: VFD manufacture has asked if the DV/DT Filters NEMA rating be NEMA 3R in lieu of NEMA 12 due to cost inflation. Is NEMA 3R rating ok for the DV/DT Filter enclosures?*

Response: VFD specification has been revised to indicate minimum Nema 1 enclosure for drives and filters.

6. *Question: Note 9 sheet E01 says, "All enclosures and boxes within Fluoride Feed Room to be NEMA 4". Due to corrosive environment should this NEMA rating be 4X Stainless Steel?*  
Response: The "Changes to Plan Sheets" portion of this addendum includes a revision to the note to indicate PVC enclosures and boxes within the Fluoride Room for corrosion resistance.
7. *Question: Is there any way to isolate the 2 million gallon clear well to install the new tee and 16" valve?*  
Response: The suction pipe connection and new valve will be installed when the clearwell has been emptied by the Owner. This is anticipated to be performed immediately before the other changeover work identified in Step 9 of the "Sequence of Construction" shown on Sheet C01 of the plans. Note that the suction pipe connection is intended to be made with a 45° bend rather than a tee. A new bend may be provided, or the contractor may rotate an existing fitting if it has been uncovered and verified to be in good condition. For bidding purposes, contractor shall assume a new bend fitting will be required.
8. *Question: Please confirm that disconnect switches are not required for the pumps in the Pump Room.*  
Response: Pump electrical disconnect switches are not required in the Pump Room. This is done to avoid additional safety risks in the event of a water leak in that room. Lockable circuit breakers in Panelboard "FWH" and on the VFDs in the Electrical Room will be used for means of disconnect. County staff will make sure the lock-out procedures are documented.
9. *Question: Sheet note 3 sheet E02 says, "All enclosures and boxes within Electrical Room shall be NEMA 12 rated". May NEMA 1 enclosures and boxes be used in the Electrical Room in lieu of NEMA 12? (cost savings if NEMA 1 can be used).*  
Response: The "Changes to Plan Sheets" portion of this addendum includes a revision to notes to indicate that Electrical Room enclosures shall be minimum Nema 1.
10. *Question: Please address cement board ceiling shown on Sheet C06 "Typical Roof Details"*  
Response: The "Changes to Plan Sheets" portion of this addendum includes a revision indicate ½" plywood ceiling in lieu of cement board.
11. *Question: May EMT conduit with compression fittings be utilized within the Electrical room ONLY since NEMA 1 enclosures for equipment will be used?*  
Response: The "Changes to Technical Specifications" portion of this addendum includes a revisions to conduit material requirements allowing for EMT in the Electrical Room.
12. *Question: Are there any wages on the job and/or are there any applicable sales/use taxes, permits, fee's etc. that are the contractor's responsibility?*  
Response: There are no wage or MBE/WBE requirements on the project. Contractor will be responsible for sales tax on materials purchased. Contractor is also responsible for obtaining a Building Permit; however, the fee for that permit will be waived.

13. *Question: Lighting fixture schedule Sheet E01 does not provide catalog number or manufacture information. Please provide catalog number and manufacture for the (3) Lighting fixtures.?*

Response: The “Changes to Plan Sheets” portion of this addendum includes a revision to “Lighting Fixture Schedule” on Sheet E01 to indicate model numbers of fixtures. Approved equals will be allowed.

End of Addendum #1