

ADDENDUM NO. 3

**Belle View Pump Station Rehabilitation
 CONTRACT NO. CN1000013739
 PROJECT NO. WW-000001-006**

This addendum consists of three (3) pages and one (1) attachment.

This addendum is supplementary to the contract documents for the Belle View Pump Station Rehabilitation Project.

All revisions, additions or deletions included herein as Addendum No. 3 shall become a part of the Contract Documents as if originally called for in the Drawings, Specifications and Form of Bid.

Contents of Addendum No.3:

| | <u>DOCUMENT</u> | <u>DESCRIPTION</u> |
|-----|--|--|
| | SPECIFICATIONS | |
| 3.1 | Section B, Major Equipment/System Schedule | REPLACE Major Equipment/System Schedule (following Section B) in its entirety with the revised "Major Equipment/System Schedule" shown in Attachment 1 . |
| 3.2 | Section 11250 Part 1.06 A 2 | REPLACE item 2 in its entirety with the following: "Operating with an airflow pressure loss of more than 6 inches of water column from the air inlet flange to the air outlet flange of scrubber tower at design airflow." |
| 3.3 | Section 11250 Part 2.03 E | DELETE item E in its entirety. |
| 3.4 | Section 11250 Part 2.03 O | REPLACE item O in its entirety with the following: "Accessory Mounting Lugs: Mounting lugs shall be suitable for mounting accessories. Mounting lugs shall be Type 316 stainless steel or FRP and attached to the vessel wall with hand lay-up laminate equal to or greater than the vessel wall thickness." |
| 3.5 | Section 11250 Part 2.03 P | REPLACE item P in its entirety with the following: "Transition Pieces: Manufacturer shall provide a transition pieces for connecting the flanged air inlet on the carbon vessel to the inlet ductwork and the below grade HDPE ductwork with the above grade FRP ductwork." |
| 3.6 | Section 11250 Part 2.03 S | REPLACE item S in its entirety with: "Discharge Stack: One (1) FRP discharge stack designed for lowest stack height and horizontal discharge, while fulfilling performance parameters." |
| 3.7 | Section 11250 Part 2.06 A and B | REPLACE items A and B in their entirety with the following: A. The ductwork shall be specially designed for the performance |

| | DOCUMENT | DESCRIPTION |
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| | | <p>and service conditions specified, and shall be designed to operate in a humid and corrosive environment, continuously or intermittently, whichever imposes the most severe duty.</p> <p>B. Ductwork shown on drawings as below grade shall be in accordance with Section 15009, High Density Polyethylene (HDPE) Pipe. Above grade outdoor ductwork shall be FRP. All other ductwork, i.e. inside the pump station shall be as specified in the contract documents.</p> <p>1. The Contractor shall coordinate required transition pieces between different types of ductwork.</p> |
| 3.8 | Section 11250 Part 2.07 B | DELETE item B in its entirety. |
| 3.9 | Section 11250 Part 2.07 C | DELETE item C in its entirety. |
| 3.10 | Section 11250 Part 2.07 D | DELETE item D in its entirety. |
| 3.11 | Section 11250 Part 3.08 | <p>REPLACE item 3.08 in its entirety with:</p> <p>3.08 FIELD ACCEPTANCE TESTS</p> <p>A. Field tests shall be made in accordance with Section 01810, Equipment Testing and Facility Startup, and Section 11000, Equipment General Provisions, and Division 1.</p> <p>B. The Manufacturer, with the Contractor's assistance, shall demonstrate compliance with paragraph 1.06.A.1 by sampling air for hydrogen sulfide between 6 am and 6 pm for two non - consecutive days during normal pump station operating conditions (ie. during average wastewater flow conditions using Jerome 631-X, or equal portable hydrogen sulfide meter. The air shall be sampled in the wet well and at the discharge of the reactor vessel. A minimum of 90% of the samples must comply with paragraph 1.06.A.1 for the Odor System to pass inspection and be accepted. All costs associated with the sampling and testing shall be borne by the Manufacturer. Submit a report including testing procedures, sampling result, data analysis, and conclusions.</p> <p>C. Balance motor speed and damper position to obtain specified airflow.</p> <p>D. Mechanical Test: The entire odor control system with other associated equipment such as fans, piping and controls shall be mechanically tested for at least 4 hours after initial installation. The test shall be made with airflow being introduced at the design rate. All equipment shall show evidence of mechanical soundness, no evidence of liquid or gas leaks, no undue vibration and generally be structurally rigid when being tested.</p> <p>E. The manufacturer's representative witnessing the field tests shall furnish the Owner, through the Engineer, a written report certifying that the absorber unit:</p> |

| | DOCUMENT | DESCRIPTION |
|------|-----------------------------|---|
| | | <ol style="list-style-type: none"> 1. Has been properly installed and accurately aligned. 2. Is free from any undue stress imposed by connecting piping and/or anchor bolts. 3. The motors speed and damper position have been balanced to obtain specified airflow. The system has been operating at design airflow rates and that the unit operates satisfactorily. 4. The Contractor has accurately recorded the data obtained during the field test. |
| 3.13 | Section 15590 Part 1.07 B 4 | REPLACE item 4 in its entirety with: "one (1) set of belts for each belt driven fan" |
| 3.14 | Section 16496 Part 2.02 B 2 | REPLACE item 2 in its entirety with: "The insulated case circuit breakers shall be a draw out type, electrically operated, on-off breaker, 100 percent rated with full-function trip system, sensors, and rating plug. The circuit breakers shall be Eaton Corporation SB type, or equal. The breakers shall be rated for 65,000 A RMS symmetrical at 480V. Each insulated case circuit breaker shall be equipped with current sensors and a self-powered microprocessor-based trip device to sense overload and short circuit conditions. Trip devices shall be interchangeable so that any trip device can be used with any frame size circuit breaker. The device shall measure true RMS currents. Peak sensing devices will not be accepted. All adjustment setting switches shall be digitally encoded type with gold contacts. Trip units shall be removable. Equip each circuit breaker with a Eaton Corporation Digitrip 1150+ or equal microprocessor based trip unit complete with rating plug size as indicated on the Drawings. The trip units shall be furnished complete with all additional modules required to facilitate all trip unit functions." |
| | DRAWINGS | |
| 3.15 | DM3 | ADD note 13. "The existing pump station PLC is MODICON 171 CCC 960 20, M1E PROCESSOR ADAPTER, 512K RAM, ETHERNET & I/O BUS PORTS" |

END OF ADDENDUM NO. 3

Bidders are required to acknowledge receipt of all addenda on Page B-2 of the Form of Bid, Section B. Failure to indicate receipt of any addenda may be cause for rejection of Bid.

COUNTY OF FAIRFAX, VIRGINIA

By: _____

Brad Melton, Director, Utilities Design and Construction Division
Department of Public Works and Environmental Services

MAJOR EQUIPMENT/SYSTEM SCHEDULE

BELL VIEW PUMP STATION REHABILITATION

CONTRACT NO. CN1000013739

PROJECT NO. WW-000001-006

(See Instructions following the Schedule)

| Spec Section Number | Equipment Type | Manufacturer | Name of "Equal Product" Manufacturer |
|---------------------|---------------------------------------|--|--------------------------------------|
| 09800 | MIC Coating | A. Warren Environmental | |
| 11130 | Dry-Pit Submersible Non-Clog Pumps | A. Flygt B. ABS C. Flowserve | |
| 11133 | Submersible Sump Pump | A. Hydromatic | |
| 11250 | Odor Control System | A. Siemens/Evoqua Water Technologies, LLC B. Enduro Composites C. Engineered Composite Systems | |
| 11431 | Open Channel Sewage Grinders | A. JWC Environmental | No Substitution Allowed. |
| 15206 | Sluice Gates | A. Rodney Hunt-Fontaine, Inc. B. Hydrogate | |
| 15950 | HVAC Electric Control System | A. Honeywell B. Johnson Controls C. Allen Bradley | |
| 16440 | Disconnect Switches | A. Square D Company B. Eaton Corporation C. General Electric | |
| 16461 | Dry Type Distribution Transformers | A. Square D Company B. General Electric C. Eaton Corporation | |
| 16482 | Motor Control Centers | A. Eaton Corporation B. Square D Company C. General Electric | |
| 16495 | Variable Frequency Drive Systems | A. Allen Bradley | No Substitution Allowed. |
| 16496 | Automatic Transfer Switch | A. Eaton Corporation | |
| 16620 | Packaged Engine Generator Systems | A. Cummins/ONAN B. Caterpillar C. MTU | No substitutions shall be permitted. |
| 17670 | Level Switches (Suspended Float Type) | A. Flygt | |

| Spec Section Number | Equipment Type | Manufacturer | Name of "Equal Product" Manufacturer |
|---------------------|---|---|--------------------------------------|
| 17701 | Magnetic Flow Meters | A. Rosemount B. ABB/Fischer & Porter C. Endress & Hauser D. Foxboro E. Krohne Siemens F. Toshiba | |
| 17749 | Submersible Level (Pressure) Sensors | A. Endress & Hauser | |
| 17851 | Single Point Gas Monitoring Systems | A. MSA Instruments B. Draeger C. Scott | |
| DRWG E106 Note 1 | Portable Generator Switch and Termination Cabinet | A. Eaton Corporation | No Substitution Allowed. |

INSTRUCTIONS TO COMPLETE MAJOR EQUIPMENT/SYSTEM SCHEDULE

- A. All major equipment and systems listed shall be bid in accordance with the "Major Equipment/System Schedule" that is included in this section. Other equipment and systems not listed here shall be provided as required by Contract Document.
- B. The BIDDER shall indicate, by circling, which of the listed manufacturers of equipment or systems it will provide. **This information shall be due within Two (2) business days after bid submission.** Should the BIDDER fail to indicate which listed manufacturer and equipment its bid is based on, the BIDDER shall provide the item noted as "A" in the "Major Equipment/System Schedule." Should the BIDDER circle more than one named equipment or system manufacturer, the BIDDER shall provide the equipment or system of the *first* of the circled items.
- C. The BIDDER may propose by writing in another manufacturer and product for equipment where "Equal Product by Other Manufacturer" is listed.
- D. If the BIDDER desires to write in another manufacturer, the BIDDER must clearly write the name of the "Manufacturer" in the "Equal Product" column and shall also circle one (1) of the listed manufacturers. Should the write-in be determined "not equal" by the ENGINEER and be rejected by the OWNER, then the BIDDER shall provide the circled equipment or system at no additional cost. Should the BIDDER fail to circle a listed manufacturer, and the write-in is determined not equal by the ENGINEER and rejected by the OWNER, the BIDDER shall provide the item noted as "A" in the "Major Equipment/System Schedule." Any ambiguities, including listing two or more write-in manufacturers or equal products, shall also be cause for rejecting an alternative proposal.
- E. Write-in equipment or systems will be deemed equal provided that the "equal" equipment or system is the same or better than the equipment or system named in function, performance, reliability, quality, and general configuration. Determination of equality will be made by the ENGINEER in accordance with Contract Documents.

- F. No write-in equipment or system will be considered unless, in the opinion of the ENGINEER, it conforms to the Contract Documents in all respects, except for make and manufacturer and minor details.
- G. Design of this project is based upon the specified equipment or system of the manufacturer listed as "A" in the "Major Equipment/System Schedule." When "B" or "C", etc., manufacturers are named, the equipment or systems of these manufacturers are deemed equal in quality. However, should a BIDDER propose furnishing the equipment or system of a "B" or "C" etc., manufacturer, or a write-in equipment or system, the BIDDER shall comply with the following:
1. Notify the ENGINEER in writing within 30 days after Notice to Proceed of all dimensional, mechanical, electrical, and structural changes and/or requirements for the equipment or system's use and conform to all requirements of Article 4.15, Section 0, of the Contract Documents.
 2. The CONTRACTOR shall retain the services of a Professional Engineer registered in the Commonwealth of Virginia to provide any and all redesign documents that may be required to accommodate the project requirements and accepted product. All redesign and construction costs resulting from selection of a manufacturer other than Manufacturer "A" shall be the responsibility of the CONTRACTOR.
 3. Reimburse the OWNER for any costs attributable to determination of equal product, *review* of the redesign documents prepared by the CONTRACTOR and any *supplemental* costs that are included by the ENGINEER associated with the equipment or system.
 4. Include in the Bid all additional construction costs (mechanical, plumbing, architectural, structural, electrical, instrumentation and controls, and engineering redesign and construction costs) associated with that alternative equipment or system. The Bid shall also include any fees for permits, inspections, or licenses necessary for the acceptance and use of the equipment or system if required by the manufacturer or regulatory agencies.
 5. BIDDER may obtain approval of equal products prior to bidding in accordance with requirements of Article A-17, Section A of the Contract Documents.