



Addendum No. 1 Receipt Certification

Project	Pump Station Upgrade Program Walden Woods and Jefferson Valley	Project No.	8618742
Owner	Town of Yorktown, New York	Date	October 20, 2016

Addendum No. 1 – Receipt Certification

Each Addendum Receipt Certification is to be submitted with the bid. Failure to submit the Addendum Receipt Certification may result in rejection of the bid.

I, _____ certify that on the _____ have received Addendum No. 1 consisting of 20 pages for the Pump Station Upgrade Program, Walden Woods PS and Jefferson Valley PS, Bid #16-5 and acknowledge all terms, conditions and modifications to the bid documents.

Bidder (Company)

Authorized Signer (Print)

Signature



Addendum No. 1 to Contract Documents

Project	Pump Station Upgrade Program Walden Woods and Jefferson Valley	Project No.	8618742
Owner	Town of Yorktown, New York		
Contract No.	1 – General 2 – Electrical 3 – HVAC	Date	October 20, 2016
Addendum No. 1 - Modifications to Contract Documents Responses to Pre-Bid Questions			

To All Contractors:

Contractors submitting proposals for the above-named project shall take note of the following changes, additions, deletions, clarifications, etc., in the Contract Documents, which shall become a part of and have precedence over anything contrarily shown or described in the Contract Documents, and all such shall be taken into consideration and be included in the Contractor's bid proposal.

Item No. 1

Contractor Questions and Responses. See Attachment No. 1, which includes questions and responses received as of October 19, 2016 at 2:00 pm.

Item No. 2

Invitation to Bid. **Replace** the first paragraph with the following:

"Sealed proposals will be received by the Town Clerk of the Town of Yorktown, Westchester County, New York, at the Town Hall, 363 Underhill Avenue, Yorktown Heights, New York, **until 2:00 pm on Wednesday, November 16, 2016** for the Pump Station Upgrade Program, Walden Woods Pump Station and Jefferson Valley Pump Station, Bid #16-5. All bidders are required to have attended at least one of the two pre-bid inspections and have attendance reflected in the sign-in sheet in order to submit a bid"

Item No. 3

Invitation to Bid. **Replace** the second paragraph with the following:

"Two pre-bid inspections will be held, the first at 10 a.m. on October 19, 2016 and the second at 10 a.m. on October 28th, 2016. Both inspections will be held at the Yorktown Sewer Plant, 2200 Greenwood Street, Yorktown Heights, New York. Representatives of the Owner or Engineer will be present to discuss the Project. **All bidders are required to attend at least one of the pre-bid inspections scheduled above and have attendance reflected in the sign-in sheet in order to submit a bid.**"



Item No. 4

Invitation to Bid. **Replace** the last sentence with the following:

"Bidders shall review and acknowledge all Addenda on the Bid Form and submit the addendum receipt certification with their bid"

Item No. 5

Invitation to Bid. **Insert** the following after the last sentence:

"Prospective bidders may request the pre-bid inspection attendance sheets by submitting a Freedom of Information Law request to the Town Clerk via email (dQuast@yorktownny.org)"

Item No. 6

Instructions to Bidders, Article 8.01. **Replace** Article 8.01 with the following:

"8.01 A Bid must be accompanied by Bid security made payable to Owner in an amount of 10 percent of Bidder's maximum Bid price and in the form of a certified check, bank money order, or a Bid Bond (on the form attached) issued by a surety meeting the requirements of paragraphs 5.01 and 5.02 of the General Conditions."

Item No. 7

Instructions to Bidders, Article 15.01. **Insert** Article 15.01 with the following:

"J. Addendum Receipt Certifications (each addendum)"

Item No. 8

Bid Form. Article 7.02. **Replace** Article 7.02 with the following:

"7.02 Bidder agrees that the Work will be substantially complete within 270 calendar days after the date that the Contract Times commence to run as provided in Paragraph 2.03 of the General Conditions, and will be completed and ready for final payment in accordance with Paragraph 14.07 of the General Conditions within 300 calendar days after the date when the Contract Times commence to run."

Item No. 9

Bid Form, Article 8.01. **Insert** the following:

"J. Addendum Receipt Certifications (each addendum)"



Item No. 10

Contract Drawing A001. **Insert** the following text beneath the Plaque Detail:

"PLAQUE REQUIREMENTS:

1. CAST BRONZE.
2. SATIN FINISH FOR RAISED BORDERS, GRAPHICS AND FACES OF RAISED LETTERS.
3. LEATHERETTE BACKGROUND TEXTURE WITH DARK OXIDE STAIN.
4. FACTORY-APPLIED PROTECTIVE COATING.
5. FLAT RELIEF TOWN OF YORKTOWN SEAL.
6. CONCEALED STUD MOUNT.
7. SUBMIT DESIGN DRAWING UNDER SECTION 10441 FOR APPROVAL PRIOR TO FABRICATION.
8. AS MANUFACTURED BY MATTHEWS INTERNATIONAL, THE SOUTHWELL COMPANY, OR EQUAL."

Item No. 11

Technical Specifications. **Insert** Specification Section 11207 – Parshall Flume (Attachment No. 2).

Item No. 12

Technical Specifications. Section 11310. **Replace** Article 2.01.A with the following:

"Furnish and install one prefabricated, above-grade, wet well-mounted pump station at the Walden Woods Pump Station. The complete unit shall be designed, fabricated, assembled and tested prior to shipment to the site.

Prefabricated pump station shall be by USEMCO, or equal."

Item No. 13

Technical Specifications. Section 11320. **Replace** the first paragraph of Article 2.01.A with the following:

"A. Pumps - The pumps provided under this section shall be Model XFP 1505J-CB2 by ABS, or equal."

Item No. 14

Technical Specifications. Section 16480, Page 3. **Delete** "Allen Bradley – 1336 (Plus) series" and **Replace** with "Allen Bradley – PowerFlex 750 Series"



Robert Butterworth, P.E.



Attachment No. 1



Pre-Bid Questions

Project	Pump Station Upgrade Program Walden Woods and Jefferson Valley Town of Yorktown, New York	From	Cosimo Pagano, PE
Subject	Addendum No. 1, Attachment No. 1 – Contractor Questions as of October 19, 2016 – 2:00 pm	Telephone	315.679.5800
Date	October 19, 2016	Job No.	8618742

CONTRACTOR QUESTIONS AND RESPONSES

1. Is bypass pumping required?

Response: Bypass pumping is anticipated at each pump station. Alternate methods of construction to eliminate bypass pumping may be considered by the Town and Engineer.

2. Is the fuel tank at Jefferson Valley being demolished by the General Contractor?

Response: Fuel tank demolition will be by the General Contractor.

3. Is electrical ductbank excavation and concrete the responsibility of the General Contractor or Electrical Contractor?

Response: Excavation and concrete associated with electrical ductbank installation is the responsibility of the Electrical Contractor.

4. Is barbed wired being installed on fence and Walden Woods or Jefferson Valley?

Response: No.

5. Is the Jefferson Valley yard hydrant being demolished or relocated?

Response: Relocated.

6. Is the backflow preventer being replaced at Jefferson Valley?

Response: No.

7. Specification Section 09900 - Painting, Table A-2 indicates that the wet well for the Jefferson Valley Pump Station receives paint system C-2. Would this apply to both the existing wet well and the new wet well extension? Will the channel for the grinder and manual by-pass also require painting?

Response: The paint system applies to the entire wet well structure including influent channel, bypass channel, expanded and original portions of the wet well.

GHD

One Remington Park Drive Cazenovia New York 13035 USA
T 315 679 5800 F 315 679 5801 W www.ghd.com



8. Specification Section 08390 - Watertight (Flood) Doors under Article 2.02 only lists the Mechanical Room door. Drawing JV A002 shows a pair of floor doors for the Generator Room as well as the new Mechanical Room door. Please confirm the pair of doors for the Generator Room is flood doors.

Response: Both doors are to be flood doors, as listed under Specification Section 08390, Article 2.02.B and additionally called out as watertight doors on Drawing 86-18742-JV-A002.

9. What is the required width and height for the flood doors?

Response: New doors shall be installed within the existing opening as shown on the Contract Drawings. Contractors shall field verify door dimensions. Single door height and width is 7-feet and 4-feet, respectively, while double height and width is 7-feet and 6.3-feet, respectively

10. The New MCC on drawing E007 shows a PLC Area and Wet Well Controls in section 6 of the new MCC but there are no details on what is required for these units. Does specification 17113 apply? Please provide details of what is needed for PLC and Wet Well Controls.

Response: Per Specification Section 11320, and notes below the MCC schedule shown on sheet E007: the PLC, Wet Well Controls and VFDs shall be provided by the General Contract on sub-panels suitable for installing in the MCC provided by the Electrical Contract.

11. The VFD wiring is not provided also are there any wiring specifics we need to follow.

Response: Per Specification Section 11320, and notes below the MCC schedule shown on sheet E007: the PLC, Wet Well Controls and VFDs shall be provided by the General Contract on sub-planes suitable for installing in the MCC provided by the Electrical Contract. The interconnecting control wiring between the VFD compartments and Wet Well controls / PLC shall be by the Electrical Contract per control diagrams developed by the General Contract's control fabricator to achieve the pump control sequence defined in specification section 11320. Field conduit and wiring from the MCC to the pumps and wet well mounted devices shall be by the Electrical Contract as shown on sheet E-007.

12. Ref: Spec 01540 Temporary Pumping. What are the anticipated peak and average sewage flow rates for each site?

Response: Walden Woods – Average 40 gpm, Peak 111 gpm
Jefferson Valley – Average 450 gpm, Peak 1,100 gpm

13. Drawing WW-E003 detail Pump Station Schematic Diagram shows a Mission RTU Panel. Should this be labeled the Walden Woods Pumping Station RTU (RTU-WWPS) rather than the Mission RTU Panel

Response: The RTU nameplate designation shall be RTU-WWPS, the callout on the Contract Drawings shall remain Mission RTU System as the callout is for locational purposes.

14. Spec 16620 Packaged Engine Generator Systems, 2.01 manufacturers lists only Caterpillar. Will other manufacturers be considered?



Response: Caterpillar is the named manufacturer. Proposed substitutions may be considered in accordance with the Contract Specifications. Be advised, it is the discretion of the Town and Engineer as to the equality of a proposed substitute and any contractor bidding under the presumption of an approvable substitute does so at their own risk.

15. Ref: Jefferson Valley Pump Station. Is there a specification available for the Parshall Flume?

Response: See Addendum No. 1, Attachment No. 2.

16. Ref: Jefferson Valley Pump Station. Where in the wet well will the submersible pressure transmitter (LT-1101) be installed?

Response: The submersible pressure transmitter installation location shall be field coordinated with the Owner and Engineer.

17. Ref: Jefferson Valley Pump Station. Will all six of the new floats be installed in the existing 8" diameter float pipe?

Response: No, the six new floats will be installed within the wet well.

18. The specifications include a Limited Lead Inspection Report for the Jefferson Valley Pumping Station. Should this report be listed in the Table of Contents as an exhibit? Is lead removal part of Contract No. 1 - General

Response: Lead paint abatement is part of Contract No. 1 – General. See Addendum No. 1, Attachment No. 3 revised Table of Contents.

19. The specifications include a Limited Asbestos Inspection Report for the Jefferson Valley Pumping Station. Should this report be listed in the Table of Contents as an exhibit? Is asbestos removal part of Contract No. 1 - General

Response: Asbestos abatement is part of Contract No. 1 – General. See Addendum No. 1, Attachment No. 3 revised Table of Contents.

20. Spec 01010 Summary of Work, includes paragraph 1.09 Owner Furnished Products. Will the Owner be supplying any products for this project?

Response: There are no owner supplied products.

21. Ref: Specification 01500 Temporary Facilities, 1.15 Engineer's Field Office. There is not enough room at either site for a field office. Can the requirement for an Engineer's field office be eliminated from Contract No. 1 – General?

Response: No, the field office may be located at the Jefferson Valley Pump Station on the west side of the access road adjacent to the fence.

22. Ref: Flexible Connection. Please provide a specification for the flexible pipe connection shown on Drawing JV-M003,



Response: The 6-inch flexible connections referenced on Drawings JV-M-002 and JV-M-003 shall be deleted and replaced with restrained flange adapters. Restrained flange adapters shall be installed in accordance with Specification Section 15060.

23. Ref: Jefferson Valley Plaque. Please provide a material specification for the 24" x 18" plaque shown on Sheets A001 and A002.

Response: See Addendum No. 1, additional notes.

24. Ref: Parshall Flume. Please provide specifications for the Parshall Flume located at the Jefferson Valley Pump Station.

Response: See Addendum No. 1, Attachment No. 3.

25. Ref: Jefferson Valley Watertight Doors. Please provide the flood elevations required for the flood-tight doors located at the Jefferson Valley Pump Station.

Response: Flood doors shall be tested to a depth of 3-feet as shown in Specification Section 08390, Article 1.04.D.

26. Ref: Underground Tank Demolition. Please provide existing details for the underground tank shown on D002. Is this tank empty or filled with hazardous material? If no as-builts are available, please provide information for bidding or make this an allowance item.

Response: The existing underground tank is 550 gallons, 6-feet long and 4-feet in diameter located on a concrete slab. The concrete slab is to remain in place and the contractor shall restore the demolished area to match existing grade.



Attachment No. 2

SECTION 11207
PARSHALL FLUME

PART 1 GENERAL

1.01. DESCRIPTION OF WORK

- A. Furnish, install, and test one Parshall flume system, complete with staff gauge, all mounting brackets, hardware, and all other required accessories for a complete and operable installation in accordance with the Contract Documents.

1.02. RELATED SECTIONS

- A. The specification sections listed below are an integral part of this equipment specification and the Contractor shall be responsible for providing these sections to the equipment suppliers.

- 1. Section 17300 – ULTRASONIC LEVEL SENSORS

1.03. REFERENCES

- A. ASTM D638 - Standard Test Method for Tensile Properties of Plastics
- B. ASTM D790 – Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
- C. ASTM D2583 - Standard Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor

1.04. PERFORMANCE REQUIREMENTS

- A. The Parshall flume system shall be furnished and installed in accordance with the following data:
 - 1. Throat Width - 1 foot.
 - 2. Channel Width - 2 feet.
 - 3. Capacity of Flume
 - a. Minimum Flow - 0.1 mgd.
 - b. Maximum Flow – 2.0 mgd.

1.05. SUBMITTALS

- A. Provide in accordance with Section 01300, Submittals; Section 01640, Equipment-General; and as supplemented herein. Submittals shall include, but not be limited to, the following:
 - 1. Shop drawings.
 - 2. Certified flow data at 0.1-foot intervals.
 - 3. Certificate of equipment compliance.

4. Manufacturer's installation certificate.
 5. Field testing results.
 6. In addition to submittal requirements specified in related sections, submittals shall include, but not be limited to, test results of fiberglass reinforced plastic laminate, critical dimensions, jointing and connections, fasteners and anchors, materials of construction, sizes, spacing, and location of structural members, connections, attachments, openings, and colors
- B. Provide operation and maintenance manuals and data where scheduled in Section 01640, Equipment-General.

1.06. EQUIPMENT WARRANTIES AND SPECIAL GUARANTEES

- A. The supplier shall provide the following warranties and special guarantees in accordance with Sections 01600, Materials and Equipment, and 01640, Equipment-General.
1. The manufacturer shall guarantee for a period of three years starting at the time of equipment delivery to the job site or one year starting at the time of Substantial Completion (whichever is shorter), that the equipment supplied is free from defects in materials or workmanship and will meet the specified performance requirements when operated in accordance with the manufacturer's recommendations. The manufacturer shall correct any breach in this warranty at their expense.

PART 2 PRODUCTS

2.01. MANUFACTURERS

- A. Plasti-Fab. Tualatin, OR.
- B. Warminster Fiberglass, Southampton, PA.
- C. Or equal

2.02. EXPERIENCE REQUIREMENTS

- A. In the case of an "or-equal" or a substitution, demonstrate in writing, to the satisfaction of Owner that the manufacturer has produced the specified type and size of equipment for sanitary wastewater service that has been in successful operation for a minimum period of five years prior to the Bid date.

2.03. EQUIPMENT DESIGN

- A. Materials
1. Flume shall be full length, one-piece construction, molded fiberglass reinforced polyester with isophthalic resin.
 2. Interior surface shall have a minimum 15 mil white gelcoat backed by a resin-rich layer of resin and chopped glass forming a water- and chemical-resistant surface, free of irregularities.

3. Remainder of laminate shall be fiberglass reinforced polyester containing not less than 30 percent glass content by weight.
4. Thickness of flume walls and floor shall be not less than 1/4-inch thickness with 1/4- inch thick at the structural flanges. The flume shall be reinforced with box section stiffeners down the sides and across the bottom. The stiffeners shall be joined together at the knee to form a rigid dimensionally stable flume. The bottom of the flume shall include 2-inch by 3-inch steel tube laminated to the bottom for additional stiffening of the floor. The reinforcing tubing shall be designed to provide structural support throughout the length and width of the flume. The steel tubing on the inlet and outlet end of the flume shall extend 3 inches beyond the flume to be used to tie-down and brace the flume during installation and leveling.
5. Flume shall have pultruded FRP bracing at top of flume (inlet, two at throat and outlet), T-304 stainless steel hardware, sufficient to resist stresses encountered during shipping and proper installation.
6. 2-inch (minimum) top and end flanges.
7. Molded-in stiffening ribs, maximum 12-inch center to center spacing, to make unit self-supporting and to eliminate the need for external bracing. Stiffeners shall be joined together at the knee to form a rigid dimensionally stable flume. Flume shall be strong enough to hold an 18-inch depth of water without visible distortion.
8. Anchor clips along the side of the flume drilled for 9/16-inch for anchorage into concrete.
9. Minimum Tensile Strength (ASTM D638) - 14,000 psi.
10. Minimum Flexural Strength (ASTM D790 - 23,000 psi.
11. Flexural Modulus (ASTM D790) - 0.8×10^6 psi.
12. Barcol Hardness (ASTM D2583) - 30.
13. Notched Izod Impact - 10 ft. lbs/inch.
14. Water Absorption - <0.2 percent (in 24 hours).
15. Maximum Throat Tolerance
 - a. 18 inches - 3/32 inch.
16. Maximum Tolerance (Other Than Throat)
 - a. 18 inches - 1/8 inch.

B. Supports

1. Stiffeners across the top shall be permanent FRP pultruded cross supports for the flume and may be either the fiberglass or temporary wood spreaders as required.
2. Shall provide sufficient strength and structural support to resist the stresses that occur during shipping and proper installation of the flume.

3. The flume shall be braced and supported during installation per manufacturer's suggestions.

2.04. ACCESSORIES

- A. The flume shall be equipped with a molded-in head gage calibrated in 100ths of a foot and centimeters. The scale shall have 3/4-inch high black numerals at each tenth.
- B. Radius-shaped fiberglass inlet wing walls to transition flow into the flume.
- C. Adjustable T-304 stainless steel mounting bracket for ultrasonic level transducer.

PART 3 EXECUTION

3.01. EQUIPMENT INSTALLATION

- A. Install in accordance with the Contract Documents and the manufacturer's written instructions.
- B. No modifications to equipment shall be made without the written consent of the manufacturer and approval of Engineer.
- C. Field verify all dimensions and elevations. Notify Engineer of specific differences.
- D. The flume shall be installed level in both directions.
- E. Concrete or grout poured in the annular space between the outside flume walls and channel walls shall consist of lifts not greater than 4 inches.
- F. The flume shall be free standing and require no additional external support in order to maintain its dimensional integrity during operation.

3.02. TESTING AND STARTUP

- A. Testing and startup shall be performed in accordance with Section 01660, Testing and Startup, and as specified herein unless otherwise noted.
- B. The level sensor specified in Section 17300, Ultrasonic Level Sensors, shall be tested and compared with the flow determined by the staff gauge reading on the flume.
- C. Flume supplier shall coordinate with the Control Systems Integrator to calibrate the flow meter.
- D. All testing shall be done in the presence of the Engineer and the equipment manufacturer or their approved representative.
- E. The Parshall flume shall be inspected to determine if it was installed level within the tolerances indicated by the manufacturer's installation instructions.

3.03. SERVICES OF MANUFACTURER'S REPRESENTATIVE

- A. Provide services of the equipment manufacturer or their approval representative in accordance with Section 01640, Equipment-General, and as specified herein.

- B. Manufacturer's representative shall be at the project site to verify the proper installation of the equipment specified and that the system meets the requirements of this specification.

END OF SECTION



Attachment No. 3

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