

CITY OF MIDDLETOWN
PURCHASING DEPARTMENT

ADDENDUM #3 TO BID #2016-011

**BID #2016-011- Francis T. Patnaude Inter-Municipal Pumping Station
Mattabassett Regionalization Project – CT-DEEP CWF-487C**

Date Issued: July 28, 2016

**ALL BIDDERS ARE HEREBY ADVISED OF THE FOLLOWING INFORMATION AND/OR
MODIFICATIONS TO THE CONTRACT BID DOCUMENTS:**

- REISSUED DRAWINGS
- REISSUED SPECIFICATIONS
- FINAL RESPONSES TO PREVIOUSLY SUBMITTED QUESTIONS
- FINAL ENGINEER RESPONSES

**PLEASE VERIFY THAT YOU HAVE RECEIVED THIS NOTIFICATION IN THE SPACE BELOW AND FAX
OR EMAIL THIS PAGE BACK TO THE PURCHASING DEPARTMENT.**

FAX: 860-638-1995 EMAIL: purchase@middletownct.gov

BIDDER ACKNOWLEDGES RECEIPT OF ADDENDUM #3:

COMPANY NAME

All bidders are hereby advised of the following amendments to the contract bid documents which are hereby made an integral part of the specifications for the subject project, prepared by the City of Middletown to the same extent as all other documents. All work shall conform to the standards and provisions of same. Bids submitted shall be deemed to include contract document information as shown in Addendum No. 1, 2, 3 and ALL addendums issued. General bidders shall notify sub-bidders that may be affected by this addendum as applicable. **Bidders shall be required to acknowledge receipt of this addendum in the space provided on the Bid Proposal Form.**

Failure to acknowledge receipt of this addendum by the bidder may result in the rejection of their bid. Bidders are directed to review changes to all portions of the work as changes to one portion may affect the work of another.

*****BIDDER NOTE:** If you have already submitted a bid you shall be required to acknowledge receipt of this addendum under separate cover in a sealed envelope clearly marked with the bid number and description. This acknowledgment must be received by the time and date specified to be accepted by the City.

Donna L. Imme, CPPB
Supervisor of Purchases

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BID ADDENDUM 3 - REISSUED DRAWINGS

Note: Bid Addenda modifications denoted with revision clouds shall be incorporated as a modification into the as-bid set of drawings.

1. C-2.2
2. C-2.5
3. C-5.3
4. C-5.4
5. EP-3.2
6. EP-5.3
7. A-1.1
8. E-2.2
9. E-7.5

BID ADDENDUM 3- REISSUED SPECIFICATIONS

Note: Bid Addenda modifications denoted with revision clouds shall be incorporated as a modification into the as-bid set of specifications.

1. Section 2- Bid Proposal (1 PAGE)
2. Section 700 – Measurement and Payment (2 PAGES)
3. Section 02060 - ^{Selective} Demolition (1 PAGE)
4. Section 02305 – Concrete Filled Pipe Piles (18 PAGES)
5. Section 02433 – Pipe Crossing Under Railroad and Highway (1 PAGE)
6. Section 077200 – Roof Accessories (1 PAGE)
7. Section 11070 – Interior Valves and Appurtenances (3 PAGES)
8. Section 13420 – Instrumentation (14 PAGES)

FINAL RESPONSES TO BIDDER’S PREVIOUSLY SUBMITTED QUESTIONS

56. Reference: C-2.2 and C-2.4 Profiles indicate, “Deep Pile Supports 12’ OC (See Details)”. Reference: C-5.3 Detail 5 on C-5.3 Indicates, “12” diameter Steel Pipe Piles Concrete Filled Driven to Refusal Rock Sockets Not Required (Typ.)”. Reference: S-5.6 Detail 1 on S-5.6 indicates, “Typical Micro Pile Detail which includes 12” drilled shaft, 1 ½ x 18 x 18 Steel

Plate and 3-#14 bars in the pile shaft.” Reference: Bid Proposal and Section 700 Measurement and Payment, Item 20 Paragraph B “Micro-Piles at East Main Street Interceptor”.

Questions:

- › Are the piles indicated on Sheets C-2.2, C-2.4 and Detail C-5.3 included for payment at the linear foot price for bid item 20 - Furnish and Install Micro-piles? **No. Reference Bid Item 105-Concrete Filled Pipe Piles. See reissued sheets C-2.2; C-5.3.**

Upon review of Addendum 2 it appears that a separate Bid Item for Pipe Piles and associated Specification was not included in this addendum. Please reference page 5, question 56, 1st and 3rd bullet points.

See reissued Section 2 - Bid Proposal – Bid Item 105 – Concrete Filled Pipe Piles. See reissued Measurement and Payment – Bid Item 105.

- › Please confirm that these are driven pipe piles and not micro piles. **These are not micro piles. See reissued specification 02305.**
- › Please provide a material specification, driving criteria and estimated pile tip elevations for the 12” pipe piles shown on sheets C-2.2, C-2.4 and C-5.3. **See reissued specification 02305.**

57. Reference: Sheets No. C-2.1 & C-5.4, there is a 22.5 Deg. Vertical Bend at Station 208+10 on the 30” Force Main. The Table on Sheet 5.4 (5 on C-5.4 Typical Thrust Block for Vertical Upward Bends) does not indicate dimensions for a 22.5 degree thrust block. Please provide dimensions. **See reissued Drawing C-5.4 for dimensions.**

59. Specification 02615 2.04 B. States “Mechanical joint restraints and concrete thrust blocks shall be installed at all fittings.”

- › It is not industry practice to require the application where retainer glands and thrust blocks are both called out as being required. This is compounded by the use of such large thrust blocks. Are both restraints needed? If so could we use a secondary restraint system such as EBBA Megalug restraint harness and use retainer glands on the fitting as an option to the detail 1 on C 5.4 for the typical anchor for vertical downward bend? **Yes, both mechanical joint restraints and thrust blocks are required by the City of Middletown Water & Sewer Department. However, the Owner may re-consider the use of thrust blocks during construction.**
- › The 11 ¼ vertical bend on the 24” force main on the site by the surge tank is in the area we are installing pipes on micro piles due to poor soils. Won’t the 22 ton thrust block cause additional stress on the pipe if it settles? The sump under the

pipe is also an OSHA issue being over 6 feet deeper than the trench shoring. Will sheeting be paid for in this application? **See reissued Drawing C-2.5 and EP-5.3. Eliminated thrust block underlying the center of the surge tank and added a concrete thrust collar around the vertical riser pipe. Eliminated both 11 ¼ vertical bends.**

- › The detail 1 on C 5.4 for the Typical anchor for vertical downward bend shows a thrust block under a 30" force main - 22 ½ degree bend of 11' W x 11'L x 9' D (80 tons of concrete) poured against undisturbed soils. Drawing C 2.1 show the use of the 30" 22 degree vertical bend at the edge of the road near the tie in. There is no OSHA approved way to excavate a 9' deep undisturbed vertical wall sump under a pipe besides installing sheet piling and leaving it in place. If this is the intent will the steel sheet piling be paid under the left in place bid item? Could we use a secondary restraint system such as EBBA Megalug restraint harness and use retainer glands on the fitting as an option to the thrust block? **As stated, the specification requires mechanical joint restraints and concrete thrust blocks to be used. However, non-incident steel sheet piling left in place shall be paid under Bid Item 7.**
 - › Thrust block details on C 5.4 state that you can pour against undisturbed earth or structural backfill. This does not allow us to shore and backfill around the thrust block with structural backfill so this should not change the OSHA issues listed above.
86. There are ultra-sonic level sensors installed on either side of the mechanical bar screens. On drawing EP-1.2 they are shown and referenced to detail 3 on EP-3.3, which shows mounting the level sensor in a concrete slab. On drawing EP-1.2 these level probes are shown being installed on aluminum channel covers. Please provide detail for installation in aluminum channel covers. **The reference detail 3/EP-3.3 was removed in Bid Addendum #2 showing concrete slab penetration. The intent is to install within the aluminum covers. The Engineer requires the OEM to furnish complete mounting details for approval for each ultra-sonic level transducer. Reference Specification Section 11330 –2.11.B.19.c.**
92. Specification section 14600, Part 2.01 – Davit cranes states that they should be Series 5110 as manufactured by Thern, Inc., Halliday Products, or equal. The Thern series 5110 is now the series 5PT10. The series 5PT10 is 10" shorter than the old 5110 version, there is 5BE10-15S option which gives you the ability to extend it another 15", please provide what model number you would like to be used and if the extension kit is needed . **Provide 5BE10-15S with the extension kit.**
125. Question 125 from Addendum #2: The question was not answered. Reference A-1.1 Valve Vault Roof. Drawing calls for floor hatches on the valve vault roof but details 1, 3 & 5 / A-5.7 show roof access hatches. Are we to quote these hatches per section 077200 Para 2.4 Roof Hatches and is a safety rail system required at these locations in lieu of safety

grates? This spec section calls for hatches to have a load rating of 300lb/sf but they only manufacturer these hatches with a rating of 40lbs/sf (per the Bilco & Nystrom Reps) please clarify what is required. **See reissued A-1.1 calling for Roof Scuttle Hatches at the Valve Vault (as detailed in 1, 3, 4 /A-5.7). See reissued Specification 077200-2.4. There is no requirement for additional safety railing at the hatches. The periphery safety rail system shall suffice.**

141. Please reference Specification 2060-1, Section 1.01, A.), 7.) In where removal of underlying pavement concrete is referenced. Please confirm the total area and thickness of underlying concrete as well as whether or not it is reinforced. **See reissued Section 02060 (Addendum 2). The bid price shall reflect the fact there is no evidence of underling concrete at the present time.** Addendum 1 changed the first page of spec 02060 selective demo. There was a cloud for the 4 lines that changed in addendum 1. Addendum 2 changed this same page of spec 02060. There is only a cloud around item 9 change. There appear to be additional changes made in items 3-8 that are not clouded as indicating changes to these items. Are the other changes not clouded to be incorporated in the bid? **Addendum 1 Revision clouds in Bid Addendum #2 Specification Section 02060-1 were inadvertently omitted. See reissued 02060-1 which incorporates all revisions made in Bid Addenda 1 and 2.**

FINAL ENGINEER RESPONSES

145. Specification section 13420 2.1 indicates provision of an electromagnetic flow meter with required features flow tube NEMA 6P, electrodes replaceable, FM CI D1 electrical rating, remote transmitter. These features are incompatible. Can the requirements for this instrument be reviewed and amended to allow the offer of a conforming instrument? **See reissued specification 13420 and reissued drawing E-2.2 for clarification.**
146. Specification section 13420 2.2 indicates provision of an ultrasonic level meter with required features integral transmitter/transducer, tank mounted with transducer range of 49 feet and relay output. These features suggest a transducer with remote VAC transmitter. Also, the drawings do not indicate a location for the transducer will measure 49 feet. Can the instrument housing and the actual measured distance be clarified to allow the offer of a conforming instrument? **See reissued specification 13420 and reissued drawing E-7.5 for clarification.**
147. 02433 - Pipe Crossing Under Railroad and Highway. **See reissued Specification 02433-11. Delete casing pipe coating.**
148. Ref 08111 Hollow Metal Doors and Frames. Par. 1.5E.3 Refers to Field Painting of HM Doors and Frames, but Par.2.11-A calls for factory applied paint finish (power coat) & Par 3.4C refer to "Prime Coat touch up after Erection" Please clarify if doors and frames will be field painted and only factory primed or if door & frame are required to be factory

painted (power coated)? **Provide factory primed doors and frames. All doors and frames shall be field painted.**

149. Groundwater test data for Maple Street show Lead well in excess of permit limits. Neither of the existing permitted systems are capable of adequately treating this water. Will the Owner provide an additional pay item to allow this water to be transported off site for disposal? **No, not at this time. Proper sedimentation controls and settlement tank sizing for solids removal should be applied to effect permitted effluent limits. The Contractor shall operate and manage its Contaminated Groundwater Dewatering System so as to comply with the DEEP requirements stipulated in the General Permits included under Exhibit F2.**
150. Reference Exhibit E Plate A & B for Wetland planting, The key for the tree type/qty and wetland impact area is identical on each sheet but the drawing clearly shows different qtys and locations please provide corrected drawings of plate A & B. **See reissued Plates A and B.**
151. Section 11070, 2.07 Plug Valve Schedule does not list a 4" Plug valve between the two pump discharges as noted in detail 2 on drawing EP-5.1. It also does not list the 8" Plug valve as shown in the Air Release Valve detail on drawing EP-3.2. Please confirm if these valves are required. **See reissued Specification 11070. Change 8" Plug valve to 8" Gate Valve.**
152. Section 11070, 2.08 Check Valve Schedule does not list (2) 4" Check valves on the grit pump discharges as noted in detail 2 on drawing EP-5.1. Please confirm if these valves are required. **See reissued Specification 11070. Yes, check valves are required.**
153. What is the depth of AOEC #1 as shown on drawing ENV 1.2? **Reference Fig-4 of C_Phase II ESA_34 East Main Report_02_27_2014 found on your CD (found in the Supporting Documents on the CD).**
154. Ref. Section 104416 – Fire Extinguishers – Par. 2.1B Calls for a UL Rated 2-A:10-B:C 15.5lb nominal capacity but note on drawing A-0.1 it states to provide UL Rated 2-A:10-B:C 5lb fire extinguisher. What size fire extinguisher and type is required? Please clarify