

**CITY OF MIDDLETOWN  
PURCHASING DEPARTMENT**

---

**ADDENDUM #1 TO BID #2016-011  
BID #2016-011- Francis T. Patnaude Inter-Municipal Pumping Station  
Mattabassett Regionalization Project - CT-DEEP CWF-487C**

Date Issued: July 11, 2016

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

- **REISSUED DRAWINGS WITH REVISIONS**
- **REISSUED SPECIFICATIONS WITH REVISIONS**
- **ALTERNATIVES**
- **RESPONSES TO SUBMITTED QUESTIONS (ADDITIONAL RESPONSES TO BE INCLUDED IN FUTURE ADDENDUM #2)**

**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](mailto:purchase@middletownct.gov)**

**BIDDER ACKNOWLEDGES RECEIPT OF ADDENDUM #1: \_\_\_\_\_  
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, 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

## **ADDENDUM #1 TO BID #2016-011**

**BID #2016-011- Francis T. Patnaude Inter-Municipal Pumping Station**

**Mattabassett Regionalization Project – CT-DEEP CWF-487C**

### **REISSUED DRAWINGS**

1. G-0.4
2. C-1.2
3. C-1.5
4. C-2.2
5. C-2.3
6. C-5.3
7. ENV-5.1 (Delete and Replace)
8. A-1.1
9. A-3.3
10. A-5.3
11. A-6.1
12. S-0.1
13. S-1.6
14. EP-5.1
15. P-5.1
16. H-1.1
17. H-5.2
18. H-6.1

### **REISSUED SPECIFICATIONS**

1. Table of Contents (1 page)
2. Information for Bidders, Art. 1.15 (1 page)
3. Section 102-Earth Excavation, Backfill, Fill and Grading (2 pages)
4. Section 700-Method of Measurement and Payment (All-61 pages)
5. Section 2-Proposal (All-19 pages)
6. Section 02060-Selective Demolition (2 pages)

7. Section 02062-Temporary Sewer Bypassing (3 pages)
8. Section 02072-Removal and Disposal of Underground Storage Tanks (1 page)
9. Section 02085-Contaminated Building Materials and Underground Structure Abatement (1 page)
10. Section 02651-Sub Aqueous Force Main Crossing (1 page)
11. Section 03300-Cast In Place Concrete (3 pages)
12. Section 083113-Access Doors (2 pages)
13. Section 08630-Metal Framed Skylights (All-7 pages)
14. Section 101416-Plaques (1 page)
15. Section 11060-Interior Process Piping and Appurtenances (1 page)
16. Section 11540A- Dry Weather Submersible Sewage Pumps (2 pages)
17. Section 11540B-Wet Weather Submersible Sewage Pumps (1 page)
18. Section 111313-Loading Dock Bumpers (All-2 pages)
19. Section 16050-Basic Electrical Requirements (1 page)

## **ALTERNATIVES**

1. Can Permax CTF™ be named as an acceptable ductile iron sewer lining for this project? **Specification 09960, High Performance Coatings, Part 2.1.A.1 e (“or equal”).**
2. Can "or equal" be added to Section 02615, Part 2.01 F? **No. Ductile iron coatings are specified in Section 09960.**
3. Can the following Concrete Admixtures be added to the products? Silica Fume (Microsilica) Admixture: "Sikacrete-950DP" - Sika Chemical Corporation. Corrosion Inhibiting Admixture: "Sika CNI"; Sika Chemical Corporation. Alkali-Silica Reactivity Inhibitor: "Sika Control ASR"; Sika Chemical Corporation. Viscosity Modifying Admixture (VMA): "Sika Stabilizer Series"; Sika Chemical Corporation. **Reissued Specification Section 03300-Cast In Place Concrete.**
4. Can Perry Fiberglass be a named manufacturer for 13228 Odor Control System? **Provided that the Manufacturer meets the minimum qualifications and the requirements of the specifications as well as the specified functionality, no manufacturer is excluded from being considered an “or Equal”**

## **BIDDER'S QUESTIONS**

### **General Information**

1. Site Walkthrough: Will there be another walk through scheduled? **A second site walk is not anticipated.**
2. Is there going to be a second site walk as stated at the Pre-bid? **A second site walk is not anticipated.**
3. Error with Dodge Reports and Reed Construction: Dodge Reports initially posted out of date bid documents. Dodge resolved this error on approximately June 28<sup>th</sup> at 12:01 pm. Do not base your bid on any information obtained from Dodge Reports prior to this date.

### **Contract Documents**

4. Reference: Section 2 Bid Proposal Form.
  - > Bid Items 1, 2, 3, 5, 8, 10, 15, 16, 17, 52, 53, 54, 60, 61, 82, 83, 84, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100 and 101 are Lump Sum Items in which the estimated quantity is N/A. Are we to assume that the intention of these items is for the quantity to mathematically equal 1? **See reissued Section 2 - Bid Proposal.**
  - > Bid Items 12 and 14 are Lump Sum Items in which the estimated quantity is Blank. Are we to assume that the intention of this item is for the quantity to mathematically equal 1? **See reissued Section 2 - Bid Proposal.**
  - > Bid Item 21,22,23,25,34,35,36,37,38,39, and 41, are Lump Sum Items in which a quantity is included in the column "Est. Quant" in various units. Please explain the basis of these items with regard to the unit and mathematical extension to be inserted on the bid form. **Please furnish your lump sum bid price. The quantities are for informational purposes only.**
  - > Bid Item 11 is a SY item in which the Est. Qty. is Blank. What is the mathematical basis of this item? **See reissued Section 2 - Bid Proposal.**
  - > Bid item 13 is a CY item in which the Est. Qty. is Blank. What is the mathematical basis of this item? **See reissued Section 2 - Bid Proposal.**
  - > Bid Items 6 and 7 are both items related to sheeting left in place. Section 700, Items 6 and 7 are unclear as to the Method of Measurement and Basis of Payment for these items. Please clarify. **These items should require no further clarification.**



- › Phase 2-Complete building demolition, removal of underground obstructions, de-water, install excavation support and complete excavation for new structure – 5 months after completion of the PCB and hazardous material remediation
  - › Phase 3-Install piles, the blow grade pump station structural foundation, water test and backfill – 8 months after completion of all phase 2 work
  - › Phase 4-Construct building envelope above structural foundation – 5 months after completion of phase 3 work
  - › Phase 5-Install equipment, electrical, process, instrumentation and mechanical systems – 6 months after completion of phase 4
  - › Phase 6-Tie in plant flows from the existing – 2 months
11. Total anticipated duration – 32 months. This preliminary schedule anticipates completing the proposed pump station and the off-site utility work concurrently. **See reissued Art. 1.15 Time of Completion/Liquidated Damages.**
12. Information for Bidders – 1.17 Insurance. Please clarify the following items relating to insurance requirements:
- › Paragraph 1.17A States “The Contractor shall include all subcontractors as insured under its policies or shall obtain separate certificates of insurance evidencing the insurance requirements herein”.
    - a) We will not provide separate project specific insurance policies for our Subcontractors.
    - b) Requiring that all subcontractors carry a \$10,000,000 Environmental impairment or Pollution Liability; a \$1,000,000 Professional Liability Insurance Policy and a \$10,000,000 excess umbrella policy is unreasonable. During the previous bid solicitation question and answer period these same issues were raised and the response was “The insurance requirements have been reviewed by an insurance professional hired by the City. They will not change.” This response is not helpful. We cannot expect a Subcontractor with a limited scope of work (silt fence, final cleaning, etc.) to carry these levels of insurance. Additionally, saying the City will review the insurance requirements of individual Subcontractors on a case by case basis and may allow modifications at the City’s discretion is equally unhelpful. The City would be effectively directing who the Contractor could hire. **The General Contractor may carry any or all subcontractors under its policy in which case the subcontractors are not required to carry the same limits. The subcontractors shall carry the**

**same limits if self - insured. The limits specified in Art. 1.17 are a precondition of bidding this project.**

- c) Exhibit D- Providence and Worcester RR Requirements – Insurance Requirements- There are specific limits required by this attachment which differ from those outlined in the City of Middletown Information for Bidders requirements. Please clarify which policy coverage requirements should be held and if they too will transfer to all Subcontractors working on the project. **PWRR limits are a precondition of bidding this project. The PWRR insurance requirements address sublet work. The Contractor shall keep in effect these limits until all the work in the PWRR right of way is completed and accepted by PWRR. The Contractor is encouraged to differentiate the work within the railroad right of way and all other work on this project with its insurance producer(s).**

13. Please clarify who is responsible for Utility Fees and inspections: **See reissued Section 2-Bid Proposal and Section 700 Measurement and Payment.**

- › There are at least 5 utility poles that are in conflict with proposed excavations. Understanding that we cannot get a price from the effected utilities until after their review, there is no way of accurately estimating the potential costs of this work. Are paying for any utility fees required on the project the responsibility of the Owner? If not, can there be made an allowance? **There are five poles in proximity to the proposed excavation. The Contractor shall select the best means and methods for installation of the proposed 12-inch sewer.**
- › Who is responsible for the cost of the primary utility installation to the proposed pump station? **See reissued Section 2-Bid Proposal and Section 700 Measurement and Payment.**
- › Who is responsible for the cost of the new gas installation to the proposed pump station? **See reissued Section 2-Bid Proposal and Section 700 Measurement and Payment.**
- › Who is responsible for the cost of the potable water installation to the proposed pump station? **The City of Middletown Water and Sewer Department will not impose any fees or inspection charges.**

14. Section 16050, paragraph 1.4.D & E requires the Electrical Subcontractor to pay for all applicable permits, including inspections. This is in conflict with the General Conditions outlined in other sections of the specification. Please clarify which is correct. **See reissued Section 16050, Section 2 – Bid Proposal and Section 700 Measurement and Payment.**

15. Please confirm who pays for all electrical utility company costs associated with the incoming electrical service modifications. **See reissued Section 2-Bid Proposal and Section 700 Measurement and Payment.**
16. Please confirm who pays for all gas utility company costs associated with installing the new gas service. **See reissued Section 2-Bid Proposal and Section 700 Measurement and Payment.**
17. Please define contractor scope of work under this contract relating to the new buried gas service installation. **The contractor is responsible for preparing the trench; Eversource-Gas installs the gas line and gas meter; the contractor backfills & compacts the trench.**
18. Due to the complexity of the project we are respectfully requesting a 2 week extension of the bid due date to August 11, 2016. **A bid extension is under consideration. A response will be offered in Bid Addendum 2.**
19. Reference Exhibit C, State of Connecticut Department of Transportation Requirements: On the page labeled “instructions for filing application for permit” there is a note which states, “The encroachment permit fee, surety bond amount, certificate of insurance coverage and any specific conditions will be determined by the District Maintenance Director upon review of the proposed work”.
  - › Has the DOT reviewed the proposed work and issued a schedule of fees and requirements and if so what are they? **The DOT has reviewed the proposed work but has not offered a schedule of fees for the temporary construction encroachment permit, bonds and insurances.**
  - › If the fees and requirements as indicated above have not been established and are therefore unknown at the time of bid is the GC responsible for these costs and what is the basis for reimbursement? **See reissued Section 2- Bid Proposal (added Allowance).**
20. Reference Exhibit D, Providence and Worcester Railroad Company Requirements:
  - › Are we correct to assume that the design requirements as outlined in this Exhibit have been incorporated into the Engineer’s design for the proposed work included in the plans and specifications? **Yes.**
  - › Is the cost for Railroad Flagmen included in Pay Item 50, Trafficmen (Uniformed Flagmen), and if not, how will the General Contractor be reimbursed for these costs? **No. See reissued Section 2-Bid Proposal (added Allowance).**
  - › How will the remaining costs attributable to the P&W Railroad (outlined in Section 18 of Exhibit B) be paid for? **See reissued Section 2-Bid Proposal (added Allowance). PWRR and City of Middletown Force Account. Bid Document Allowance.**



Sheeting” or “Steel Sheeting”. No such bid items exist. Please clarify. Is this a reference to payment items 6 and 7, Timber and Steel Sheeting left in place? Other similar contract pay items have different wording regarding excavation support. Please clarify the intent of Section 700 Measurement and Payment regarding payment for sheeting. **Each one of the four above references refer to Bid Items 6 (Specification 02377) and 7 (Specification 02378). Bid Item 82 is for Pump Station Foundation construction.**

24. Section 700 – Measurement and payment – Bid items 60&61. Paragraph D- The contaminated groundwater treatment system is being priced in accordance with Section 00800A and related sections and appendices. Paragraph D states “increased costs due to changes.... Will be part of the Contractors cost”. The way the paragraph is written, the Contractor is responsible for any cost associated with a change in groundwater contaminants, which would include any additional contaminants discovered through the required site sampling. For example – if the PCB concentrations found in the groundwater were higher than what was disclosed in the bidding documents the Contractor would be responsible for the additional cost of treatment prior to discharge. Please clarify the intent of this paragraph. Can we rely on the bidding documents to develop a cost for the groundwater treatment system or should we carry a contingency allowance for the increased risk associated with this? **See reissued Section 700 Measurement and Payment.**
25. Please define on the bid form what is the description of supporting interfering obstructions item # 95. **Reference Section 700 - Bid Item 46: Supporting Interfering Obstructions.**
26. Please define on the bid form what is the description of supporting parallel obstructions item # 96. **Reference Section 700 - Bid Item 47: Supporting Parallel Obstructions.**
27. Where in the bid form do we put the dock bumpers? **Reference Bid Item 93 – Division 11 Lump Sum.**
28. Is it the engineer’s intent to install the mini piles for the pump station from existing grade or do we install the piles after the site has been excavated out? **This is the contractor’s decision. The Engineer questions why the piles should be driven from existing grade?**
29. The drawings call for a “Shell Material” to be inside the casing for the micropile. The drawings and specs make no other mention in regards to this. Is there anywhere to find out what the shell material is or what it’s intention is? **A response will be offered in Addendum 2.**

### **General Requirements**

30. The last sentence on Spec 01563 paragraph 3.02 C is “They shall be of”. What is the rest of this sentence? **The sentence continues on the top of the following page: “... such**

**dimensions as to give sufficient clearance for construction and inspection of the work and to permit installation of all necessary dewatering facilities.”**

### **Civil, Site, Demolition and Environmental**

31. Specification Section 02072 – Removal & Disposal of Underground Tanks: Page 1 under section 1.01 of the specification specifies the heating oil is in 1000 gallon tank. Page 3 under section 3.01 of the specification specifies the tank is 1,500 gallons. Please clarify which is correct. **The Contractor is responsible for one (1) 1000 gallon heating oil and one (1) 1000 gallons gasoline adjacent to the northwest corner of the 2 story brick pump building. See reissued Specification Section 02072.**
32. Spec 02651 1.02 B. refers to a drawing in addendum 3. Where do we find this? There is no Addendum 3. **See reissued Specification Section 02651.**
33. Reference Contract Drawing C-2.4: What does the designation “BT” indicate with reference to Existing Sanitary Manholes? **BT Refers to the surveyed inside bottom of the structure as shown.**
34. Contract Drawing C-2.4, Sanitary Manhole 101: Plan indicates “Prop. MH 101”, Profile Note States, “Prop. H 101 (Reuse Exist. SMH) Core Drill...”. Is it your intention to re-use the existing manhole or to furnish a new proposed manhole? Existing inverts are at Elevation 9.90, the proposed invert is 7.93. Are we to assume (if we are in fact to reuse the existing manhole) that the existing manhole has an existing bottom at or below elevation 7.93 that would allow for core drilling to accept the 42” DIP at the indicated invert? **Sanitary Manhole 101 shall be a new structure. See reissued Drawing C-2.4. Incorporate into the bid documents “Bid Addendum SK-1” for the location of the upstream manhole to be used for bypassing SMH 101.**
35. Contract Drawing C-5.2 Sewer & Force Main Details 1, Detail 1 Typical Sanitary Manhole Details: Link seals are indicated for sewers 42” diameter and larger. It is our understanding that Link Seals are not manufactured for installation in cylindrical surfaces. Is another connection method acceptable? **Link Seals are used in sealing manhole penetrations. Reference: *Engineering Manual and Buyer’s Guide, Link-Seal Modular Seals, Century-Line Sleeves, Cell-Cast Disks.***
36. Contract Drawing C-2.2, Sanitary Manholes 110 and 111. The invert elevations indicated in the Table labeled “Gravity Sewer from East Main Street” are not consistent with the bottom of precast structures as shown on the profile. Is it acceptable to assume precast manhole structures that achieve the detailed invert elevations, and standard Manhole Details, or is there some reason that the bottoms of these structures extend significantly below the invert? **Assume precast manhole structures that achieve the detailed invert elevations, and standard Manhole Details. See reissued Drawing C-2.2.**

37. Contract Drawing C-2.3: Sanitary Manholes 114 and 115 are indicated on the plan as proposed and as Existing on the profile. Is it intended to furnish and install new Manholes at these locations or to utilize the existing Manholes? **Reuse these structures. See reissued Drawing C-2.3.**
38. Contract Drawing C-2.3: The proposed sanitary sewer crosses under the Route 17 Eastbound DOT Bridge over East Main Street close to the easterly abutment and at a depth of up to 15' below existing grade. Please provide a cross section or some form of detail that indicates the existing conditions including the elevation and location of the bridge abutment footing and the backfilling and restoration requirements so that the area can be restored in an acceptable manner. **CT DOT archived construction drawings are provided as "Supporting Documents" and shall be incorporated into these bid documents.**
39. Reference Sheet C-2.4 Plan and Profile indicate the presence of a 12" Buckeye Fuel Line just south of the railroad track.
- › What is the elevation of the Buckeye Fuel Line in proximity to the proposed 54" steel casing? **Buckeye as-built drawing AB-36 is provided as "Supporting Documents" and shall be incorporated into these bid documents.**
  - › What are the requirements of the Buckeye Pipeline Company with regard to installation of the proposed casing in proximity to their pipeline? **There are no formalized written requirements.**
  - › There appears to be no reference to Buckeye in the specifications other than the address of the utility company. Has Buckeye been notified that this work is proposed to take place? **Buckeye has not been notified due to the depth of their pipeline.**
40. Reference Sheet C-2.3: On Maple Street CL&P pole 3476 and SNET Poles 8088, 8087, 3475, and 8002 are within the work zone for the installation of the 12" Sanitary Sewer. Each of these poles have various risers and associated underground duct bank, none of which is indicated on the plans. Please provide details as to the location, elevation, and configuration of these duct banks as they relate to the proposed work. **Details on CL&P Pole 3476 and SNET Poles 8088, 8087, 3475 and 8002 and duct banks are not available. The proposed sewer shall be installed on top of the existing 10" PVC sewer. It is the responsibility of the Contractor to devise a means and methods for this construction.**
41. Cuts for the proposed 12" sewer range from 7 feet to 14 feet at each of the utility poles listed. These cuts will be significantly below the bottom embedment of the utility poles. The poles appear to be as close as 4 feet from the proposed sewer. Does the owner intend to remove and relocate these poles from the zone of influence of the work? **The Owner does not intend to re-locate these poles. It is up to the Contractor to take the necessary precautionary measures to insure the integrity of utilities in proximity to the work.**

Drawing G-0.4, General Sequence, Note 8 – Please clarify the scope of the temporary pumping station. **See reissued Specification Section 02062- Temporary Sewer Bypassing.**

- › This pump station will be in place for approximately two years. The requirement of the Contractor to maintain this during this period will be extremely expensive due to the requirement of having on call maintenance staff that is trained to service pump station. Why is the Contractor responsible for maintaining a City of Middletown Pump Station for two years? **The specification indicates the contractor shall demonstrate that the bypass pumping equipment is automated and capable of functioning without the assistance of an operator. The Engineer envisioned a package pumping station for bypassing the Maple Street flows.**
  - › What are the minimum and average daily flows? (Peak flows are specified in 02062.1.6.A.1). **A response will be offered in Addendum 2.**
  - › Will a temporary generator be required? **Yes. See reissued Specification Section 02062.**
  - › Please clarify “in accordance with the project specification”. Are there specifications that further define this pump station? **See reissued Drawing G-0.4 Note 8.**
  - › Can the proposed pump station be abandoned in place? Will this need to be removed upon completion? **See reissued Drawing G-0.4 Note 8**
  - › Does the proposed structure need to be pile supported? **No. See reissued Drawing G-0.4 Note 8.**
  - › Will the new electrical service for the pump station be paid for by the City or the Contractor? **See reissued Specification Section 2 – Bid Proposal.**
42. Reference: Specification Section 02060 Selective Demolition 1.01 A Paragraph 4: The first sentence begins to address “building pilings and concrete substructures, including mats and walls that are within the limits of disturbance but do not interfere with proposed new work” and then ends with a statement regarding removal and disposal of piles 3 feet below existing grade. The existing piles below the existing incinerator building and the portions of the existing pump building are under the basement foundation, and therefore many feet below existing grade. Questions:
- › In existing structures that are outside the footprint of the proposed improvements is it acceptable to remediate the PCB, ACM and hazardous materials and abandon the below grade foundations in place? **Yes. See reissued Specification Section 02060.**

43. In areas that are outside the footprint of the proposed facilities, is it acceptable to leave existing piles in place provided that they are cut off or exist at an elevation a minimum of 3 feet below proposed grade? **Yes. See reissued Specification Section 02060.**
44. Spec 02060 1.01 A.3 States "Remove and dispose former buried treatment tank pilings and concrete substructures, including mats and walls, where located within the project limits of disturbance and which interfere with proposed new work." The first sentence states we can leave pile and concrete where it does not interfere with the new work within the limit of disturbance. The end of the paragraph says "The Contractor shall assume all of the pilings underlying the former treatment tanks will be removed and disposed." The second part of the paragraph states all of the piles are to be removed. Do we need to remove all concrete and pile for the tank or not? **Unknown at this time. Only the piles which interfere. See reissued Specification Section 02060.**
45. Spec 02060 1.01 A.4 States "Where building pilings and concrete substructures, including mats and walls, are within the project limits of disturbance but do not interfere with proposed new work, remove and dispose piles down to a minimum depth of three (3) feet below existing grade." Please confirm that this means all of the building walls and mats need to be removed. There were discussions at the Pre-bid site walk that discussed abating the hazardous materials and potentially leaving some of the walls and mats in the ground. **No. It does not mean all of the building walls and mats need to be removed.**
46. Drawing C.1.2 shows a 24" pipe being abandoned in place heading off the right side of the page towards route 9. How far does this Abandoning go from the manhole? **See reissued Drawing C-1.2.**
47. Drawing C.1.2 shows a pipe being cut and capped on the left side of the page just below the photo. What size is the pipe and how deep? **This is a graphical error. See reissued Drawing C-1.2.**
48. Drawing C 1.2 does not show the smoke stack foundation or pile to be demolished. The Piles are shown on C 7.1. Is there a foundation or pile to be removed? **See reissued Drawing C-1.2.**
49. The incinerator building is not in the way of new construction. Is this structure to be abated of hazardous materials? And demolished to 3' below grade and backfilled? **Yes. See reissued Drawing C-1.2. The basement shall be backfilled with on-site AOEC soils.**
50. Are there any coatings on the timbers for the existing pipe bridge that would classify the materials as hazardous for disposal? **This question will be addressed in the second addendum.**
51. Reference Plan Sheet C-1.5, Detail Sheet C-5.6: A hydrant is indicated on the plan coming off of the 4" DI Water Line. Assuming that the hydrant is as indicated on Detail 5 on C-5.6

is the 4" DI water line adequate to service a hydrant? This is an unusual configuration. **See reissued Drawing C-1.5. 6 inch DI Water.**

52. Reference Plan Sheet C-1.5: Plan sheet indicates," (2) 1" Compressed Air Lines (Pitched Back to Drain)" What is the material required for the 1" Compressed Air lines? **See reissued Drawing C-1.5. Stainless steel.**
53. Section 02085, paragraph 3.8.F – This paragraph states "all material leaving the site shall become the property of the Contractor", which places us in a position of being the "Owner" of PCB regulated debris. Please remove this sentence and modify the paragraph to identify the Owner as the Generator of all Hazardous Material. This is a critical distinction. **Sentence removed. See reissued Specification Section 02085.**
54. Reference Sheet C-2.4. Please provide details regarding the limits and requirements for abandonment of existing utilities between the proposed pump station site and the City of Middletown Water Pollution Control Plant, specifically including the 36" Interceptor, the 24" CIP Sanitary, the 48" Sanitary and the 42" Sanitary (All Existing). **This request is under consideration and if granted will be provided in Addendum 2.**
55. Section 02085 PCB Contaminated Material Abatement – Paragraph 1.1.G – Last sentence reads "*Contractor is responsible for determining the actual quantities to form the basis of their bid*". Our assumption is the testing that has been completed and the quantities listed in the specifications are correct and provide adequate information to bid off. Please clarify the intent of the specified requirement of having the Contractor "determine actual quantities". Are we to assume the information provided is inaccurate? **See reissued Specification Section 02085.**

Reference Sheet ENV-5.1: Waste Stockpile Area and Soils Classification Area Environmental Details Section A-A Indicates that the WSA and SCA are constructed on a "Superpave Pavement Surface". Section B-B is a section in the opposite direction which indicates that the WSA and SCA are constructed on an "Existing Superpave Pavement Surface". **Delete old Drawing ENV-5.1 and replace in its entirety with reissued Drawing ENV-5.1.**

- › Is the pavement surface below the WSA and SCA existing or proposed? **The SCA is the former WSA under the previous force main construction Contract. This area should require no further improvements under this Contract.**

**The WSA is a paved, former employee parking lot, which has never been used for stockpiling controlled materials. Therefore, it is the Contractor's responsibility to inspect the proposed WSA prior to bid.**

- › If the pavement is proposed please provide a detail of the pavement structure, including base material and pavement thickness, and a specification for the type of bituminous pavement required. **See reissued Drawing ENV-5.1.**

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?
- › Please confirm that these are driven pipe piles and not micro piles.
- › 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.
- › Doghouse Manhole 111 is shown on the Profile (Sheet C-2.2) as not being on piles, but Detail 6 on C-5.3 indicates that it is built on 4 piles. Furthermore, the location of the indicated piles are in conflict with the existing flow and cannot be install as shown. Is Manhole 111 intended to be pile supported and if so how can this be accomplished while maintaining flow in the existing 36" Sewer?

**A response to these four questions will be offered in Addendum No. 2.**

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. **A response to this question will be offered in Addendum 2.**
58. Technical Specifications – Section 102; Pages 102-1 and 102-2 appear to be missing from this specification section. If this is the case, could you provide the missing information? **These pages are not missing from the Owner's set. These 2 pages are included in this addendum for the benefit of any others missing these pages.**
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 the detail 1 on C 5.4 for the typical anchor for vertical downward bend?

- > 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?
- > 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?
- > 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.

**A response to these four questions will be offered in Addendum 2.**

## **Structural**

60. The Cast-In-Place concrete specification (03300) has an incorrect Sika Product listed in Part 2.01.D.3.d. Change "Sikament 300 or Sikament 2000" to "Sikament 686" or "Sika Viscocrete Series"; Sika Chemical Corporation. **See reissued Specification Section 03300.**
61. Reference Drawing S-1.6 Col. Line D/11 has a detail note 9/S-5.3 but on sheet S-5.3 there is no detail No.9 was this supposed to be detail 7? **See reissued Drawing S-1.6.**
62. In reviewing the documents and the specs, there are several drawings and comments regarding exterior stairs being comprised of metal stairs and platforms as called out on S-1.4. Drawing S-1.4 also seems to show concrete construction. Please clarify if they are metal stairs and platforms or concrete. If they are metal please provide details. **A response to this question will be offered in Addendum 2.**
63. Can horizontal construction joint or bond outs be installed in the exterior walls of the Sewer Pump Station to allow for the use of internal steel sheeting bracing? There is no construction joint until ground level or higher. **Horizontal construction joints will not be permitted. See reissued Drawing S-0.1.**

## Masonry

64. On elevation Drawings A-2.2 and A-2.3 it shows 8" ground face CMU below the water table. However the spec and detail 1 on drawing A-3.3 call out 6" ground face CMU. What is the correct size? **The size of the CMU below the water table shall be 8 inches. See reissued Drawing A-3.3.**

## Thermal and Moisture Protection

65. Drawing A-3.3, Detail 1 at top of exterior wall shows spray foam insulation. Drawing A-5.3 Details 1&2 shows mineral wool infill at the same location. Which should be used? **Either. See reissued Drawings A-3.3 and A-5.3.**

## Doors and Windows

66. Will all floor access hatches be required to have safety grates? **Yes, unless otherwise noted.**
67. Will all floor access hatches be fire resistance rated? If not please note which hatches are fire resistance rated. **See reissued Specification Section 083113.**
68. Drawing A1.1 - Ground Level Plan. Plan shows various size floor hatches on the valve vault roof:
- a. 42 x 48 floor hatch 3/A-5.7
  - b. 60 x 48 floor hatch 1/A-5.7
  - c. 36 x 36 floor hatch 4/A-5.7

Detail 1, 3 & 4 /A5.7 show roof scuttle hatches however Specification Section 08310 Par. 2.1D calls for watertight steel gutter-frame floor doors at the valve vault. What is required? If these are roof scuttle hatches will they require a safety rail system? If they are gutter framed floor door will safety grates be required? Will they be fire resistance rated? Will they be insulated with a liner? **See reissued Specification Section 083113. Details 1, 3 and 4/A-5.7 are correct. See reissued Specification Section 08630-Metal Framed Skylights.**

69. Specification Section 083323 – Overhead Coiling Doors. Par. 2.1A.1 Specification calls for Steel door curtain to be fabricated from zinc coated cold rolled structural steel sheet, but door schedule on Drawing A-6.1 calls for coiling doors to be fabricated from aluminum. Please clarify what is required. **Zinc coated cold rolled structural steel sheet is required per the specification. The door schedule shown on Drawing A-6.1 (aluminum) is incorrect. See reissued Drawing A-6.1.**
70. Will all floor hatches/doors be designed for 300 lb/sq ft? If not, please specify the design rating for each hatch so they can be properly quoted. **Reference General Notes, Drawing S-0.1, unless otherwise noted.**

71. Ref. Drawing A-1.3 Roof Plan: drawing shows two (2) operable double dome skylights (2/A-5.7) please supply spec for these skylights. Will they be manual or motor operated? Detail 2 on A-5.7 shows manual operators. **See reissued Specification Section 08630-Metal Framed Skylights.**
72. Drawing A-6.1 Door Schedule: Door numbers listed on the door schedule do not match the door numbers shown on drawing A-1.1 Ground Level Plan- Please Clarify. **Eliminate Door 116 on the door schedule on A-6.1. See reissued Drawing A-6.1.**
73. Drawing A-1.1 Ground Level Plan. Drawing shows a dock leveler @ door @105B with a dock level pit detail 6/A-5.9. There is no dock leveler detail No.6 on A-5.9 but there is a safety railing detail No.6. Please supply correct detail. **Reference Detail 12/A-5.10. See reissued Drawing A-1.1.**

## Specialties

74. Specification Section 107500 Flagpoles: Please verify that flag pole shown on Drawing A-1.1 is the only flag pole required. Also please provide detail of the 5x5 pad for the pole base. This is the only flag pole required on this project. **Reference Specification Section 107500 Paragraph 1.4. D. "Delegated Design Submittal".**

## Equipment

75. Specification Section 111313 Loading Dock Bumpers - Missing from Volume II of the specifications. **See reissued Specification Section 111313.**
76. The addition of a degassing valve on the discharge header piping at the high point will help reduce any issues with intermittent treatment due to gas bubble compression and discharge. Should a degassing valve be added? **No. Peristaltic pumps do not require a degassing valve.**
77. The Blue-White Industries Flex-Flo named in 11740 does not have the flow capacity nor I/O capabilities specified. Will you accept the BWI M-2 series Flex-pro pump attached? **The equivalent BWI product will be approved as long as it meets the specification performance requirements.**
78. Specification Section 11740 – Chemical Feed System Equipment - Section 11740 Para. 2.1.2.f. calls for a brushless DC drive motor. Are brushed DC drive motors as manufactured by Blue-White Industries (BWI) acceptable? **Yes, provided the pump and motor meet the Special Qualifications, Materials of Construction and Quality Assurance requirements.**
79. Specification Section 11740 – Chemical Feed System Equipment – Regarding the two hypo pumps specified – shall the pump supplier provide a skid system? **A skid system is acceptable if the bidder believes it will fit within the contained area.**

80. Reference Plan Sheets PI-1.1 and EP-3.3: PI-1.1 shows 3" PVC-OVRFL from Wash presses tied-in to the 8"-DI-OVRFL. EP-3.3 Typical Grit Washer Profile indicates, 2" NPT SS pipe to DI Companion Flange and 4 DIP to 8" DIP Drain. Please clarify the type and size of the materials to be used. **A response to this question will be offered in Addendum 2.**
81. Reference Spec 11060.2.03 Compressed Air Piping and Fitting: Spec states, "All compressed air piping in sizes 1" and smaller shall be PE-AL-PE..." On drawing EP-1.2 CA is listed as 1.5" NPT Aluminum CA Piping. Also shown are Isolation Assembly and Air Piping Assembly which do not indicate sizing.
- › Please provide additional information on 1.5" piping including material requirements and details of the installation limits.
  - › Please provide sizing details for the Compressed Air Isolation Assembly and the Compressed Air Piping Assembly.

**A response to these 2 points of clarification will be offered in Addendum 2.**

82. Please confirm if the screenings disposal containers and the grit disposal containers are supplied under this contract. **Yes, these are included under this contract. Reference Drawing EP-1.1.**
83. Drawing EP-1.1 & EP-3.1 notes that the 3" drains from the Screenings Wash Presses are BI (black iron). Drawing EP-3.3 indicates these same lines are SS (stainless steel) and Drawing PI-1.1 indicates these same lines are PVC. Please confirm type of material to use for 3" drain lines for the screenings wash presses. **A response to this question will be offered in Addendum 2.**
84. Drawing EP-3.1 notes that the 2" drain line from the Grit Washers are 2" NPT BI (black iron). Drawing EP-3.3 indicates these same lines are SS (stainless steel). Please confirm type of material to use for 2" drain line from the Grit Washers. **A response to this question will be offered in Addendum 2.**
85. Drawing EP-1.1 calls out for a screening discharge hopper and no other drawings detail this item. Specification section 11331 makes no mention of this item being required. Please confirm if a screenings discharge hopper is to be provided and if so where this is detailed or specified. **Yes. A response to the second question will be offered in Addendum 2.**
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. **A response to this request will be offered in Addendum 2.**

87. Drawing EP-5.1 Flow Meter Vault Detail: Will this hatch be aluminum or Galvanized steel, angle or gutter frame & will it be insulated with liner? **Reissued Drawing EP-5.1.**
88. On drawing A-1.1 the generator/fuel tank platform appear to show stairs and a landing. Is this to be included in Misc. Metals or part of another package? **Stairs and landing are part of the generator enclosure.**
89. Drawing EP-1.1 indicates a transfer pump in the chemical storage tank area. Upon review of drawing PI-1.3 and specification 11740 there is no mention of a transfer pump. Please confirm if a transfer pump is required for the project and if so where it is specified. **A transfer pump is not required for this project.**

### **Division 13**

90. Drawing PI-1.3 shows back pressure valves on the discharge of the hypo peristaltic feed pumps and are shown again at the injection point. This is a little uncommon in WW feed systems, especially with peristaltic pumps. More back pressure results in shorter tube life and higher operating costs. Are duplicated BPVs required? **Eliminate Back Pressure Valves at pump discharge. See reissued Drawing PI-1.3.**
91. Drawing PI-1.3 shows 1" PVC pipe for the hypo peristaltic suction and discharge headers prior to the ½ inch braided PVC tubing. These pumps are rated for less than 15 GPH. Having all that hypo in such a large diameter pipe has been known to create problems with off-gas bubbles. Can the suction and discharge piping and accessories (pressure relief, etc.) be downsized to ½ inch? **No.**

### **Division 14**

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. **A response to this question will be offered in Addendum 2.**

### **Division 16**

93. Ref: Drawing E 6.1 Lighting Fixture Schedule: There is no letter designation next to the fixture description as it relates to the electrical lighting plans. **A response to this question will be offered in addendum 2.**

## Supporting documents

94. The geotechnical information does not contain any physical lab testing, such as grain size analyses or limits etc. Were any test performed as a part of the investigations? If so are they available for either distribution or inspection? **No grain size distribution tests were conducted as part of the investigations, only the physical descriptions in the boring logs and reports.**
95. Several monitoring wells are indicated as existing at one time or another at the site. Are there any records of water levels being recorded at these locations over time? If so are they available for either distribution or inspection? **Only as shown in the boring logs and generalized soil profiles.**
96. **Add CTDOT archived drawings for the East Main St. Bridge (Route 17 to Rte. 9N/S interchange**
97. **Add Buckeye as-built drawing AB-36 (pipe depth below proposed 36 inch DI gravity sewer).**