120 MALABAR ROAD SE, PALM BAY, FL 32907-3009 (321) 952-3424

August 11, 2020

ADDENDUM #3

TO THE CONTRACT DOCUMENTS FOR THE CITY OF PALM BAY

Project Name & Number:
IFB # 39-0-2020/JG, South Regional Water Reclamation Facility Construction

FROM: City of Palm Bay
120 Malabar Road SE
Palm Bay, FL 32907
TO: All Parties Holding Specifications

The purpose of this addendum is to provide the following changes, modifications and/or additions to the contract documents and technical specifications.

CLARIFICATIONS:

THE DUE DATE HAS CHANGED:	
New Due Date:	**Thursday, September 10, 2020 at 5 pm**
New Opening Date:	**Friday, September 11, 2020 at 10:00 am**
New Deadline for Questions:	**Wednesday, August 13, 2020 at 5 pm**
	No additional extensions are expected. The cutoff for questions is firm. All questions received prior to the previous cutoff date of August 7, 2020 will be addressed in future addenda.

It was stated at the pre-bid that MBE/DBE requirements do not apply. To clarify, Attachment A, FDEP Supplementary Conditions, Article 10 "Disadvantaged Business Enterprises" does not apply because this is not a Federal CAP Grant. All other provisions of Attachment A, including Article 12 "Equal Employment Opportunity (Executive Order 11246)" do apply. Article 12 has provisions including but not limited to minority and female participation goals, contractor requirements, subcontractor requirements, and contractor reporting.

Article 6.2, shall be amended to read:

1.1 All questions about the meaning or intent of the Bid documents shall be submitted to City's Procurement Contact as listed in these Contract Documents in writing or via email. Questions **received after the question deadline** may not be answered. Bidder is responsible for verifying receipt of questions to Procurement contact. Only questions answered by formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect and shall not be relied upon by Bidders in submitting their Bids. Failure of any Bidder to receive any such addendum or interpretation shall not relieve such Bidder from its terms and requirements. Replies considered necessary will be issued through Addenda to all parties recorded by the City's Procurement Department as having received complete sets of Bid documents up to seventy-two (72) hours before Bid Opening time. Brief Addenda may be issued between seventy-two (72) hours and twenty-four (24) hours before Bid time to all parties recorded by the City's Procurement Department as having received complete sets of Bid documents only. Addenda information will be posted online at http://www.demandstar.com, and www.publicpurchase.com. Both links can be obtained through the City of Palm Bay Web Page http://www.palmbayflorida.org/procurement. Bidders are responsible to check any of these locations for updates.

QUESTIONS RECEIVED:

Q1. E-8 Sludge Pumps 190101A and 190101B show disconnect switches which doesn't match the E-6 cable schedule. Please confirm which one is correct?

A1. Sheet E-8 is correct. Each pump will require a NEMA 4X, 30 amp, 600 volt, stainless steel non-fusible disconnect switch.

Q2. E-10 Overhead door shows a disconnect switch next to the control panel which doesn't match the E-7F cable schedule. Please confirm which one is correct?

A2. Sheet E-10 is correct. The overhead door will require a NEMA 4X, 30 amp, 600 volt, stainless steel non-fusible disconnect switch.

Q3. E-10 Please provide location of SF-3 disconnect switch.

A3. The SF-3 disconnect switch will be mounted on the wall adjacent to the thermostat.

Q4. E-7G Shows a 30A NF DSW feeding the DP-2 PNL and E-25 equipment rack shows a 200A 4X SS CB feeding DP-2 PNL. Please confirm which is correct?

A4. Sheet E-25 is correct. A 200 amp disconnect switch is required. On sheet E-7G, change cable No.s 5 and 6 to 3#4/0 + 1#4 GND in a 2 ½" conduit.

Q5. Is an individual VFD specification to be supplied? If not, please confirm that the manufacture and model VFDs shown on schematic drawings E-29 and E-30 are required, and if any output filtering is needed. Also please indicate which individual VFD schematic is to be used with which specific VFD.

A5. The VFDs will be manufactured by Yaskawa with a Modbus TCP/IP Ethernet card. Furnish all VFDs with output filtering. Sheet E-29 schematic is for the High Service Pump and Effluent Pump VFDs. Sheet E-30 schematic is for all other VFDs.

See attached Specification Section 16420 – Variable Frequency Drives.

Q6. The assets of the specified manufacturer in specification section 11350, Enpro Technologies (misspelled EmPro), who later became IPM Systems, was acquired by Velocity Dynamics, LLC (DBA VeloDyne) in September of 2016. VeloDyne requests that specification 11350, paragraph 2.08.A, be changed from "Empro Technologies" to "VeloDyne of Louisville, CO".

A6. Section 11350 – Skid Mounted Chemical Metering Pumps and Accessories

Change paragraph 2.08.A, from "Empro Technologies" to "VeloDyne of Louisville, CO".

Q7. Can the plans be "printed to a pdf" for bidding purposes? The plans now have been printed then scanned – the have become unsearchable.

A7. A "printed to a PDF" version will not be provided.

Q8. Article 6.2 of Section 00100, Instructions to Bidders, states "Questions received less than seven (7) calendar days prior to the due date for Bids will not be answered."

Addendum 1, Clarification #2 states "The Deadline for questions will be August 7, 2020".

Considering that the bid due date is September 8, 2020, please confirm that the deadline for questions will be September 1, 2020 in accordance with the Instructions to Bidders. For a project of this size, it is in the best interest of the City to answer as many questions as possible to obtain the most accurate and competitive bids, and inevitably there will be many questions that arise between August 7th and September 1st.

A8. Please see clarification section of this addendum.

Q9. Specification 01010, Paragraph 1.13 states "*The CONTRACTOR shall provide two on-site field office trailers … The Contractor's on-site field office shall contain a conference room complete with table and chairs to accommodate at least 10 meeting attendees. All project meetings shall be held in the Contractor's field office unless noted otherwise*." Specification 01500, Paragraph 1.04 only mentions a field office for the Engineer. Please clarify whether we are to include in our bid the cost of a second field office, which is not the Engineer's field office, to accommodate the attendees of monthly meetings as indicated in Specification 01010.

A9. The Contractor is to include the cost for two temporary field trailers that are to remain onsite during the length of construction. One for the Contractor and one for the Engineer. The Contractor's field office will be used as the location of monthly meetings

Q10. Specification 01010, Paragraph 1.02 states "*The project is being constructed in multiple phases. The initial phases of the project (1A and 1B) will have a total treatment capacity of 2 million gallons per day (MGD) with each phase providing*

***1 MGD of treatment utilizing the membrane biological reactor (MBR) biological treatment process. Equipment will only be installed in phase 1B for this Work.*"**
This statement does not appear to agree with the phases of construction indicated on Drawing C-4 which show PH 1A as a stormwater pond and PH 1B as the first 1 MGD MBR treatment process. Please clarify that both Phases 1A and 1B are to be constructed under this contract as shown on Drawing C-4 and revise Specification 01010 accordingly.

A10. Section 01010 – Summary of Work

Change second paragraph of section 1.02,

from:

"The project is being constructed in multiple phases. The initial phases of the project (1A and 1B) will have a total treatment capacity of 2 million gallons per day (MGD) with each phase providing 1 MGD of treatment utilizing the membrane biological reactor (MBR) biological treatment process. Equipment will only be installed in phase 1B for this Work. The effluent will be disposed of via an existing deep injection well and a future public access reuse system."

to:

"The project is being constructed in multiple phases. The initial phases of the project will have a total treatment capacity of 2 million gallons per day (MGD) with each phase providing 1 MGD of treatment utilizing the membrane biological reactor (MBR) biological treatment process. The project phases for Site/Civil work to be included in this contract are shown on Sheets C-3 and C-4. The effluent will be disposed of via an existing deep injection well and a future public access reuse system."

Q11. Article 25.5 of Section 00100, Instructions to Bidders, states "*The Utilities Department will pay directly all City Building Permit fees.*"

Specification 01060, Paragraph 3.01 A. states "*The CONTRACTOR shall be reimbursed for permit fees as described in the Section entitled "Measurement and Payment".*"

Specification 01025, Measurement and Payment makes no mention of reimbursement for permit fees.

Please confirm that the City Building Permit fees will be paid directly by the City as indicated in the Instructions to Bidders, otherwise an allowance item needs to be added to the bid form to allow for reimbursement of the fees to the Contractor.

A11. City Building Permit fees will be paid directly by the City.

Q12. Specification 01025, Paragraph 1.07 Bid Item No. 1 – Mobilization/Demobilization, states "*The costs of bonds, required insurance, permits and any other preconstruction expense necessary for the start of the work, excluding the cost of construction materials, shall also be included in this item.*" Paragraph 1.07 B.

indicates that this item shall not exceed 5% of the Bid price and the table shows that only 25% of this amount will be paid after contract execution. The premium costs incurred by the Contractor at the start of the contract for the required bonds and insurance alone will exceed the allowable payment shown. This doesn't even account for the cost of all of the other work that will be required to mobilize on site such as office trailers, storage facilities, construction equipment, temporary power and water, subcontractor mobilizations, etc. plus the retainage withheld from the payment.

Please consider removing the costs of the required bonds and insurance from the 5% Mobilization/Demobilization item and creating another item that allows for payment of just the bonds and insurance, otherwise we will be forced to include the cost of financing the bonds and insurance in the bid price, ultimately costing the City more money.

A12. 25% of the mobilization/demobilization (1.25% of the overall contract) paid at contract execution should be sufficient for bonds and insurance. The schedule of allowable percentages in 1.07.B allows for payment of the remainder of the mobilization/demobilization line item with each 10% of contract completion. No change will be made to the contract documents.

Q13. Specification 01580 generally describes project signs and informational signs but does not provide any details such as size, materials, colors, locations, and quantities. Please provide these details for all signs that will be required for this project.

A13. Specification section 01580 is in reference to the project sign to be posted during construction. Refer to Section 10425 for specifications for signage throughout the proposed facility.

Q14. The bid documents do not appear to mention that the City will provide any copies of the contract documents for the Contractor's use during construction. Please confirm that we are to include reproduction costs in our bid for plans and specifications required for Contractor and Subcontractor use during construction and for the purpose of maintaining Record Documents.

A14. The Contractor will receive one signed and sealed hardcopy of the bid plans and specifications, one signed and sealed hardcopy of the conformed plans and specifications, and one electronic scanned copy in PDF format. The Contractor is responsible for all copies required to perform the Work and should include the cost for the quantity of copies needed as part of their bid. The City will not provide additional copies.

Q15. Specification 01650, Paragraph 1.06 D. mentions that the Contractor shall provide, among other items, wastewater biosolids for initial start-up of equipment unless otherwise specified. Please confirm that City will provide wastewater biosolids for this purpose and NOT the Contractor. If the Contractor is required to provide wastewater biosolids, please indicate the volume required to be provided and the nearest acceptable source of wastewater biosolids for this purpose.

A15. The City will supply the biosolids for the initial startup.

Revise 01650 – Starting and Placing Equipment into Operation 1.06.D

From: “CONTRACTOR shall provide fuel, electricity, water, filters, wastewater biosolids, and other expendables required for initial start-up of equipment unless otherwise specified.”

To: “CONTRACTOR shall provide fuel, electricity, water, filters, and other expendables required for initial start-up of equipment unless otherwise specified. Wastewater biosolids for initial startup will be supplied by the City. The biosolids will be made available from either the North Regional WRF or North Regional WWTP located on Clearmont Street in Palm Bay. The Contractor is responsible for the loading and hauling of wastewater biosolids from one of the stated locations.”

Q16. Specification 02100, Paragraph 3.01 A.1. states “*Areas designated for improvements on the Plans shall be cleared of all trees, shrubs, vegetation, stumps, logs, brush, roots, buildings, pavement other than concrete, and debris.*” Grading & Drainage Note #9 on Drawing C-1 says, in part, “*Reasonable efforts shall be made on the property to save and design around existing healthy trees. Preservation of exceptional specimen trees may be required after review in the field …*” Drawing C-3 has a table listing all trees 18-inch and larger and indicates that these trees are to be preserved when possible. Drawing C-3 also has several notes about tree removal at the PH 1B location, but no other references are made to clearing. Is clearing only required at the PH 1A and PH 1B locations or are all nine (9) phased areas shown on Drawing C-3 to be cleared under this contract? In either case, please clearly identify the scope of the clearing required for this contract.

A16. Phase 1A and Phase 1B will be cleared under this scope of work along with any additional clearing required for construction access.

Add note to Sheet C-4: “Phase 1A and Phase 1B will be cleared under this scope of work along with any additional clearing required for construction access. See sheet C-5 for the silt fence along the limits of clearing.”

Q17. Specification 02230, Paragraph 1.01 A. requires base courses to be limerock base, limerock stabilized base, or crushed concrete base. The “Typical Asphalt Pavement Section” on Drawing C-31 shows a 6” soil cement base. Please clarify which base material is required for asphalt pavement and verify the required thickness.

A17. The typical pavement section shall be 12” of compacted subgrade, 10” of limerock base, and 2” of asphalt course. Revise sheet C-31 TYPICAL ASPHALT PAVEMENT SECTION as follows:

Change “6” SOIL CEMENT COMPACTED TO 98% OF MODIFIED PROCTOR DENSITY, AASHTO T-180” to “10” OF LIMEROCK BASE COMPACTED TO 98% OF MODIFIED PROCTOR DENSITY, AASHTO T-180”

Change “8” SUBGRADE COMPACTED TO 95% MAX. OF MODIFIED PROCTOR

DENSITY, AASHTO T-180, MIN. LBR=40" to "12" SUBGRADE COMPACTED TO 95% MAX. OF MODIFIED PROCTOR DENSITY, AASHTO T-180, MIN. LBR=40"

Q18. Specification 02660, Paragraph 3.04 B. states "*Water for testing shall be obtained from a potable water supply. The CONTRACTOR shall provide all water required at his own expense and shall make all necessary arrangements with the authority which controls the source of water system and shall be governed in his use of water by all rules and regulations imposed thereon by said authority.*" The same requirements appear in Specification 02661, Paragraph 3.04 B. for Reclaimed Water piping and Specification 02735, Paragraph 3.04 B. for Force Main piping. Considering that the City water treatment plant is adjacent to the project site, and that the work under this Contract will be for the City, please confirm that we should include these costs, and the associated markup in our bid. The City will save money if water for flushing, testing, and general construction use is provided to the Contractor at no charge.

A18. The City will provide potable water to the Contractor to complete the Work.

Revise Specification Sections 02660 – Potable Water Main, Paragraph 3.04 B, 02661 – Reclaimed Water Main, Paragraph 3.04 B, and 02735 – Force Mains 3.04 B.

From: "Water for testing shall be obtained from a potable water supply. The CONTRACTOR shall provide all water required at his own expense and shall make all necessary arrangements with the authority which controls the source of water system and shall be governed in his use of water by all rules and regulations imposed thereon by said authority. The CONTRACTOR shall provide and remove temporary connections, backflow preventers, meters, etc., between the source water system and the mains constructed under this Contract. All temporary connections shall meet the approval of the ENGINEER, the authority controlling the source water system and Public Health authorities having jurisdiction."

To: "Water for testing shall be obtained from a potable water supply. The OWNER will provide potable water to the CONTRACTOR to complete the Work. The CONTRACTOR will coordinate with the OWNER the location(s) where temporary connections will be made. Each connection point will be supplied with a construction meter to monitor water usage. While the OWNER does not intend to charge for water usage, the OWNER reserves the right to charge the CONTRACTOR for excessive water usage (i.e. repeated re-testing, leaks downstream of the OWNER's meter, etc.)."

Q19. Specification 02660, Potable Water Main, Paragraph 2.01 B.2.c.i.; Specification 02661, Reclaimed Water Main, Paragraph 2.01 B.2.c.i.; and Specification 02735, Force Mains, Paragraph 2.01 B.2.c.i. all state "*All yard piping shall be restrained*." Likewise, Yard Piping Note #1 on Drawing C-1 says "All below grade piping shall be restrained unless otherwise noted." Drawing C-34 includes a Restrained Joint Table showing minimum lengths of pipe to be restrained. Please indicate whether all piping is to be restrained per the referenced specifications and the note on Drawing C-1 or if the Restrained Joint Table on Drawing C-34 is to be used to determine the limits of pipe restraint.

A19. All piping in the project is to be restrained. The restrained joint table is provided for reference only, should a field change be required.

Q20. Will television inspection and high-velocity jet cleaning of the sanitary sewer system be required for this project as outlined in Specification 02730, Paragraph 3.04 A.?

A20. Yes, inspection will be required, and the lines must be cleaned as needed.

Q21. Specification 02720, Paragraph 1.04 states "*Laboratory test not less than one (1) percent, with a minimum of three (3) pieces each size, material and class of gravity pipe required in the Work.*" Specification 02730, Paragraph 1.02. C has the same requirement. Is this destructive testing that will require the contractor to purchase a significant amount of additional pipe (three pieces of each size, material, and class)? Please clarify the scope of laboratory testing required for Storm Utility Drainage piping and Sanitary Sewer piping and who is responsible for this testing.

A21. The contractor shall provide the manufacturer's quality control testing as part of the material submittal. The reference to destructive material testing shall be removed from the specifications as follows:

Specification Section 02720 – Storm Utility Piping: Delete Paragraph 1.04. Revise first paragraph of section 1.05 from "Submit two (2) copies of the laboratory test reports required per Article 1.04 of this Section to the ENGINEER." to "Submit manufacturer's quality control testing."

Specification Section 02730 – Sanitary Sewers: Delete Paragraph 1.02.C. Revise section 1.03.B.3 from "Submit two (2) copies of the laboratory test reports required per Article 1.02.C of this Section to the ENGINEER." to "Submit manufacturer's quality control testing."

Q22. Paragraph 2.01 B.1.a. of Specifications 02660, 02661, and 02735 indicates that buried piping is to be Class 250 Ductile Iron. Specification 15200, Paragraph 2.01 B.1. requires Class 350 Ductile Iron for buried pipe. The Pipe Schedule on Drawing P-30 also indicates Class 350 Ductile Iron Pipe for below ground piping. Please clarify the class of Ductile Iron Pipe required for buried piping installations and revise the specifications and/or drawings accordingly.

A22. All ductile iron piping is to be Class 350. The specification sections will be revised as follows:

Section 02660 – Potable Water Main: Change section 2.01, B.1.a from: "For buried pipe: Class 250" to: "For buried pipe: Class 350"

Section 02661 – Reclaimed Water Main: Change section 2.01, B.1.a from: "For buried pipe: Class 250" to: "For buried pipe: Class 350"

Section 02735 – Force Mains: Change section 2.01, B.1.a from: "For buried pipe: Class 250" to: "For buried pipe: Class 350"

Q23. Paragraph 2.01 C.1.a. of Specifications 02660, 02661, and 02735 indicates that below grade fittings "*shall be compact, ductile iron with pressure rating of 250 psi conforming to ANSI A21-53/AWWA C-153…*" Specification 15200, Paragraph

2.01 B.3. indicates that fittings are to be "*AWWA C110 and C111 with lining, coating, and pressure rating same as pipe*." Please clarify the requirements for below grade fittings.

A23. Below grade fittings shall be as specified in Specification Sections 02660, 02661, and 02735. Specification Section 15200 will be corrected as noted below.

Section 15200 – Process Piping and Valves:

Change section 2.01, B.3

from:

"AWWA C110 and C111 with lining, coating, and pressure rating same as pipe."

to:

"1. Below Grade

a. Fittings shall be compact, ductile iron with pressure rating of 250 psi conforming to ANSI A21-53/AWWA C-153 and be the mechanical joint configuration with standard thickness cement mortar lining in accordance with ANSI 21.4/AWWA C 104 and factory applied asphaltic coating per AWWA C 110 and C 153. All fittings shall have ANSI A21.10 laying lengths equivalent to those listed for mechanical joint fittings.

2. Above Grade

a. Above grade fittings shall be flanged in accordance with AWWA C110/ANSI 21.10 with facing and drilling which match AWWA C115 and which also match ANSI B16.1 Class 125 flanges. Exposed fittings shall have factory applied coating of a universal rust-inhibitive primer 2.0 mils dry thickness."

Q24. Does the 6.9% female workforce utilization requirement in the FDEP Supplementary Conditions apply to the entire workforce at the jobsite or each individual subcontractor working onsite. For example, if the General Contractor has ten (10) employees including one (1) female, and the painting subcontractor is working onsite with three (3) male employees, for an overall total of 13 employees with one (1) female, is the requirement satisfied since 1/13 is 7.7%, or is the painter, and every other subcontractor working onsite, required to individually meet the 6.9% requirement?

A24. Article 12.1.2. states in part, "The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in Florida." It further states "These goals are applicable to all the Contractor's construction work (whether or not it is federal or federally assisted) performed in the covered area."

Please refer to the clarifications section of this addendum.

Q25. Specification 02831, Paragraph 2.02 A. requires dark green vinyl coated mesh for the chain link fence. Detail 1 on Drawing C-37 does not mention vinyl coating. Detail 2 on Drawing C-37 requires black PVC coated chain link for the double gates. Please clarify whether vinyl/PVC coated mesh is required for all of the fencing and gates and, if so, whether the color is to be green or black.

A25. Contractor shall match the existing style of fence at the South Regional Water Treatment Plant, which is galvanized.

Modify Detail 2 on Drawing C-37, change type to "galvanized chain link."

Modify Specification Section 02831 – Chain Link Fences and Gates as follows:

Change 2.02A "Fabric Mesh – Vinyl Coated" to "Fabric Mesh – galvanized"

Delete 2.02.A.3

Delete 2.02.B.2

Delete 2.02.C.3

Delete 2.02.D.3

Delete 2.02.E.2

Q26. Specification 02940, Paragraph 2.01 B. states "*The CONTRACTOR shall obtain his own topsoil borrow pit source and shall obtain all necessary permits and agreements for the use of such borrow pits at his own expense.*" Please clarify whether stockpiled topsoil stripped from the site prior to construction can be used for this purpose or if the Contractor will be required to import topsoil from an offsite source as indicated in the referenced specification.

A26. Acceptable topsoil stripped from the site may be reused.

Revise Specification Section 02940, Paragraph 2.01 B, by adding the following to the end of the section: "Acceptable topsoil stripped from the site may be reused. If insufficient quantity is available, the Contractor will be responsible for providing it."

Q27. Specification 03300, Paragraph 2.08 states "*Concrete shall be 5,000 psi, Grade 5.0, unless otherwise shown on the plans.*" Specification 02523, Paragraph 2.01 A. states "*Concrete shall be in accordance with FDOT, Section 345, Class II, 3,400 psi strength*". Note #3 under CAST-IN-PLACE CONCRETE on Drawing S-1 states "All concrete shall have a compressive strength of 5000 PSI @ 28 Day unless otherwise noted." Table 1 – Concrete Mixtures on Page 03300-16 of the Specifications includes 5,000 PSI; 4,000 PSI; 3,500 PSI; 3,000 PSI; and 50-100 PSI compressive strength concrete mixes. Please clarify which mixtures are to be used for this project and generally where they are to be used (i.e. slabs on grade, beams, columns, walls, sidewalks, equipment supports, pipe encasement, etc.). Also, since no 3,400 PSI mixture is included in Table 1, should the 3,500 PSI

mixture be used to meet the requirements of the 3,400 PSI mixture specified in Section 02523, Paragraph 2.01 A. for curbs, sidewalks, and driveways?

A27. All CIP concrete shown on the structural sheets shall be the 5000 psi mixture. All concrete used for the curbs, sidewalks and driveways shall be the 3500 psi mixture.

Q28. On Drawing S-34 Door No. G101B appears to be mislabeled as G100B. Doors G101B, G102C, and G103B are indicated to be Type B. Type B doors, as indicated in "DOOR TYPES" on Drawing S-34, appear to be wood doors with vision panels by the indication "WD FLUSH WITH VISION PANEL". Doors G101B and G102C are exterior doors. Specification 08112, Paragraph 1.02 B.2. references Section 08211: Flush Wood Doors, but this specification has not been included in the bid documents. Please confirm that these three doors are to be wood doors as indicated, and if they are, please provide a specification for flush wood doors.

A28. G100B in the door schedule should be G101B. G101B, G102C, and G103B shall be HM doors, not wood doors.

Sheet S-34, Door and Louver Schedule, replace "G100B" with "G101B."

Sheet S-34, Door Types, Change the type B to "B HOLLOW METAL WITH VISION PANEL"

Q29. Specification 08311 outlines the requirements for access doors and frames for ceilings. No access doors are shown in the ceiling of the building. Are access doors and frames required for this project? If so, please indicate the quantity and location for each access door required.

A29. No doors pertaining to that spec section are required. Delete Specification Section 08311 in its entirety.

Q30. Specification 08411 outlines the requirements for aluminum framed entrances & storefronts. No aluminum framed entrance & storefront is shown for the building. Are aluminum framed entrances & storefronts required for this project? If so, please provide details and locations.

A30. No aluminum framed entrances & storefronts are required for this project. Delete Specification Section 08411 in its entirety.

Q31. Specification 09220 outlines the requirements for Portland cement plaster. It does not appear that any part of the structure requires a Portland cement plaster finish. If Portland cement plaster is required for this project, please provide details and locations.

A31. No Portland cement plaster required. Delete Specification Section 09220 in its entirety.

Q32. Specification 09651 and Specification 09653 outline the requirements for resilient tile flooring and resilient wall base and accessories. The Room Finish Schedule on Drawing S-4 indicates that all floors in the building are to be sealed concrete with no base material. Please confirm that resilient tile flooring and resilient wall

base and accessories are not required for this project.

A32. No resilient tile flooring or resilient wall base and accessories required. Delete Specification Sections 09651 and 09653 in their entirety.

Q33. Specification 09905, Paragraph 2.01 D. states "*Buried piping shall be identified by identification tape or wire installed over the centerline of the pipelines.*" Subparagraph 1 requires Identification tape for plastic or non-magnetic pipe. Subparagraph 4 details tracer wire but does not indicate where it is to be used. Paragraph 3.02 A. states, "*Identification tape shall be installed for all buried lines…*" and Paragraph 3.02 B. states "*Tracer wire shall be installed for under all FDOT crossings and FDOT Right-of-Ways.*"

Please clarify whether identification tape is required only for buried plastic or non-magnetic pipe as indicated in paragraph 2.01 D. or if it will be required for all pipe as indicated in paragraph 3.02 A. Also, please confirm that tracer wire is only required for piping under FDOT crossings and in FDOT Right-of-Ways as indicated in paragraph 3.02 B.

A33. Metallic identification tape shall be used for all buried pipe. Tracer wire only applies to FDOT crossings and FDOT Right-of-ways.

Q34. Specification 11005, Paragraph 3.01 A.2., last sentence requires "*nonshrink, nonstaining Type V grout as specified in Section 03600: Mortar and Grout*." Specification 03600 does not identify Type V grout. Please confirm that the grout products listed in Specification 03600, Paragraph 2.09 are acceptable products to meet the requirements of Specification 11005.

A34. Replace Section 03600 – Mortar and Grout paragraph 2.09 with the following:

"2.09 ACCEPTABLE GROUT PRODUCTS

Acceptable materials for nonshrink, nonstaining Type V grout for equipment base plates, sole plates, and setting plates include the following:

1. Fluid Grout 161 by Five Star
2. SONOGROUT 10K by Sonneborne
3. DURAGROUT by L & M Construction Chemicals"

Q35. Specification 11700, Paragraph 1.03 F. states "*The dewatered grit receptacle shall have a drain and be provided by OTHERS.*" Please confirm that the "dewatered grit receptacle" referenced in this specification is the "15 CY ROLL-OFF DUMPSTER BIN" shown on Drawing P-3, P-5, and P-6 and that it is NOT to be provided by the Contractor as a part of this contract.

A35. Confirmed.

Q36. Specification 13050, Paragraph 3.03 C. requires the Contractor to provide fuel for testing and retesting and to fill the 6,500 gallon diesel fuel storage tank to capacity prior to final acceptance. Specification 11335 does not mention a

requirement for filling the 2,500 gallon Sodium Hypochlorite tank or providing chemicals for testing. Please confirm that the City will provide Sodium Hypochlorite for testing and initial fill of the tank.

A36. The Contractor is responsible for providing the Sodium Hypochlorite for testing and initial fill of the Sodium Hypochlorite tank.

Section 11335 3.03, add paragraph C as follows:

"C. Contractor shall provide chemical for any required testing and retesting. If the chemical subsequently becomes contaminated, Contractor shall dispose of the chemical at no cost to the Owner and in accordance with all FDEP regulations. Upon completion of the testing and prior final acceptance of the system, the Contractor shall fill the tanks to capacity with specified chemical."

Q37. Specification 13140 details the requirements for "*Freestanding, shop fabricated and assembled fiberglass reinforced polymer (FRP) insulated composite buildings.*" No such building appears to be required in the bid documents. The only building that has any FRP elements is the Sodium Hypochlorite Storage Area Shelter, but it consists of wall panels that appear to be specified in Section 06600, Paragraph 2.05. Please clarify whether any FRP buildings are required as detailed in Specification 13140.

A37. Specification Section 13140 is not applicable to the project. Delete Specification 13140 – Fiberglass Reinforced Polymer Building in its entirety.

Q38. Most of the equipment specifications in Division 11 list several manufacturers and "or equal" or "or approved equal". Specification 11740, Paragraph 2.02 states "*Systems shall be as manufactured by BioAir Solutions, LLC. or approved equal only. Proposal of an unnamed Manufacturer after the bid will not be considered.*" This is the only specification with this qualification of the term "or approved equal". Please confirm that the Biological Odor Control System specified in Section 11740 is the only item of equipment for this project that requires approval of an alternate manufacturer prior to the bid. If not, please revise the other equipment specifications accordingly.

A38. All alternates will be evaluated after bid. Revise Specification 11740 – Odor Control System by removing the sentence, "Proposal of an unnamed Manufacturer after the bid will not be considered."

Q39. Specification 13200, Paragraph 1.04 A. requires the tank contractor to "*provide prequalification data prior to the bid in accordance with Section 1.05 B. of this specification.*" Section 1.05 B. requires all tank construction companies to submit a complete prequalification package to the Engineer for consideration 14 days prior to the date set for receipt of bids. Paragraph 2.01 lists the only manufacturers as The Crom Corporation and Precon Corporation. Please clarify whether these companies need to submit the prequalification package since they are already named manufacturers.

A39. A prequalification package is NOT required from the named manufacturers in the specifications.

Q40. Specification 15080, Paragraph 3.05 A.1. requires insulation of the generator exhaust system and the low pressure air discharge piping system. Please clarify the following:

- **There is no mention of insulation within the generator specification (16231). Since the generator comes pre-packaged in an enclosure, is insulation required and, if so, is it to be the responsibility of the generator manufacturer? It would be much easier to have the insulation pre-installed at the factory before the enclosure is installed.**
- **Is the discharge piping of all seven blowers (two MBR, one Standby, two Aeration Fine Bubble, and two Sludge Storage Coarse Bubble) required to be insulated?**
- **The drawings don't show any insulated air piping from any of the blowers. What is the extent of the insulation required on the blower discharge piping? Is all of the interior and exterior piping from the blower to the point it enters each tank to be insulated?**

A40. Specification 16231, 2.01, A, 1 requires a minimum of 1" thick sound-deadening material that will be furnished by the generator manufacturer.

The blower process piping is NOT required to be insulated. Physical barriers and signage shall be provided in accordance with OSHA guidelines.

Q41. Note #4 under the Pipe Schedule on Drawing P-30 says "*Chemical feed piping shall be PVC double wall containment pipe*." Specification 15200, Paragraph 2.01 F. is the only reference in the specifications to PVC piping but does not specify a double wall containment system. Please provide a specification for the PVC double wall containment pipe and fittings. Also, please confirm that all tank fill piping, metering pump suction piping, and metering pump discharge piping to the Chlorine Contact Tank is to be double wall containment pipe.

A41. All chemical piping shall be double wall containment pipe.

Add the following paragraph to the end of Specification 15200 – Process Piping and Valves, paragraph 2.01:

"I. Double Wall Containment Pipe Systems

1. Furnish a complete double containment piping system including piping, fittings, anchors, terminations, access tees, carrier pipe supports and associated pipe joining method. Obtain components from a single source having responsibility and accountability to answer and resolve problems regarding proper installation, compatibility, performance and acceptance.

2. Delivery, storage, and handling: Store products on elevated platforms in a dry location with protection from the elements. Lift, support, and transport pipe per manufacturers recommendations.

3. Materials: Pipe and fittings shall be Polyvinyl Chloride with a Cell

Classification of 12454-B in accordance with ASTM D 1784. All Pipe and fittings shall be Listed to NSF Standard 61 or health effects portion of NSF Standard 14. Containment pipe shall be same as product pipe.

Pipe shall be Schedule 80 PVC and shall be IPS dimensions and be manufactured in accordance with ASTM D 1785.

4. Supports: Supports, guides, etc. for product pipe shall be provided of same resin as product pipe. Supports shall be placed in a manner that a maximum of 0.1" deflection is allowed between supports. Supports shall allow axial movement of product pipe within containment pipe. Supports shall maintain a concentric relationship between product pipe and containment pipe.

5. Anchors: Anchors shall be provided of same resin as product pipe and containment pipe. Anchors shall be of same wall thickness as product and containment pipe, and must be of unitary construction. Anchors shall be fully pressure rated.

6. Installation and Testing: System shall be installed and pressure tested per manufacturer recommendations.

7. Leak Detection: Manual leak detection shall be required by use of a valve installed near the low-point of the pipe system, near the chemical feed pump skid.

8. Acceptable Manufacturers: Double wall containment piping shall be one of the following:
   - Pro-Lock manufactured by Asahi/America, Inc.
   - Double-See manufactured by GF Piping Systems LLC
   - ENGINEER approved equal"

Q42. Specification 15200, Paragraph 2.06 M. requires PVC Body Ball Valves to be "*socket connection for valves less than 1-inch or flange connection for valves greater than 1-inch …*" Please clarify whether flanges will be required on all PVC Ball Valves larger than 1-inch as this is not a common practice.

A42. All PVC ball valves larger than 1" in size will have flanged ends and a true-union design. PVC ball valves 1" and smaller in size will have socket connections and a true-union design.

Q43. Drawings P-18 and P-19 show a Hydropneumatic Tank at the Chlorine Contact Tank. No section, details, or specifications are included in the bid documents for this piece of equipment. Please provide details and specifications for the required Hydropneumatic Tank.

A43. See attached specification section 11100 – Hydropneumatic Surge Tanks.

Q44. Drawing C-3 has a note that says "*Existing power pole to be removed and*

***replaced outside of proposed pavement limits. Contractor to coordinate with FPL*." This is the only reference to the relocation of this power pole in the bid documents. Is the City going to be paying FPL directly for this work? If not, please add an allowance to the project for FPL fees because there is no way to determine the cost of FPL's work to relocate the power pole at this time.**

A44. The City will pay FPL directly.

Q45. With regard to section 11200 – 2.01 A – Manufacturers. Would the owner consider changing the model number for the Peerless pump from 14MC to 14HXB as it is a more efficient selection?

A45. Refer to ARTICLE 30 (SUBSTITUTE MATERIAL AND EQUIPMENT) of the Invitation for Bid document.

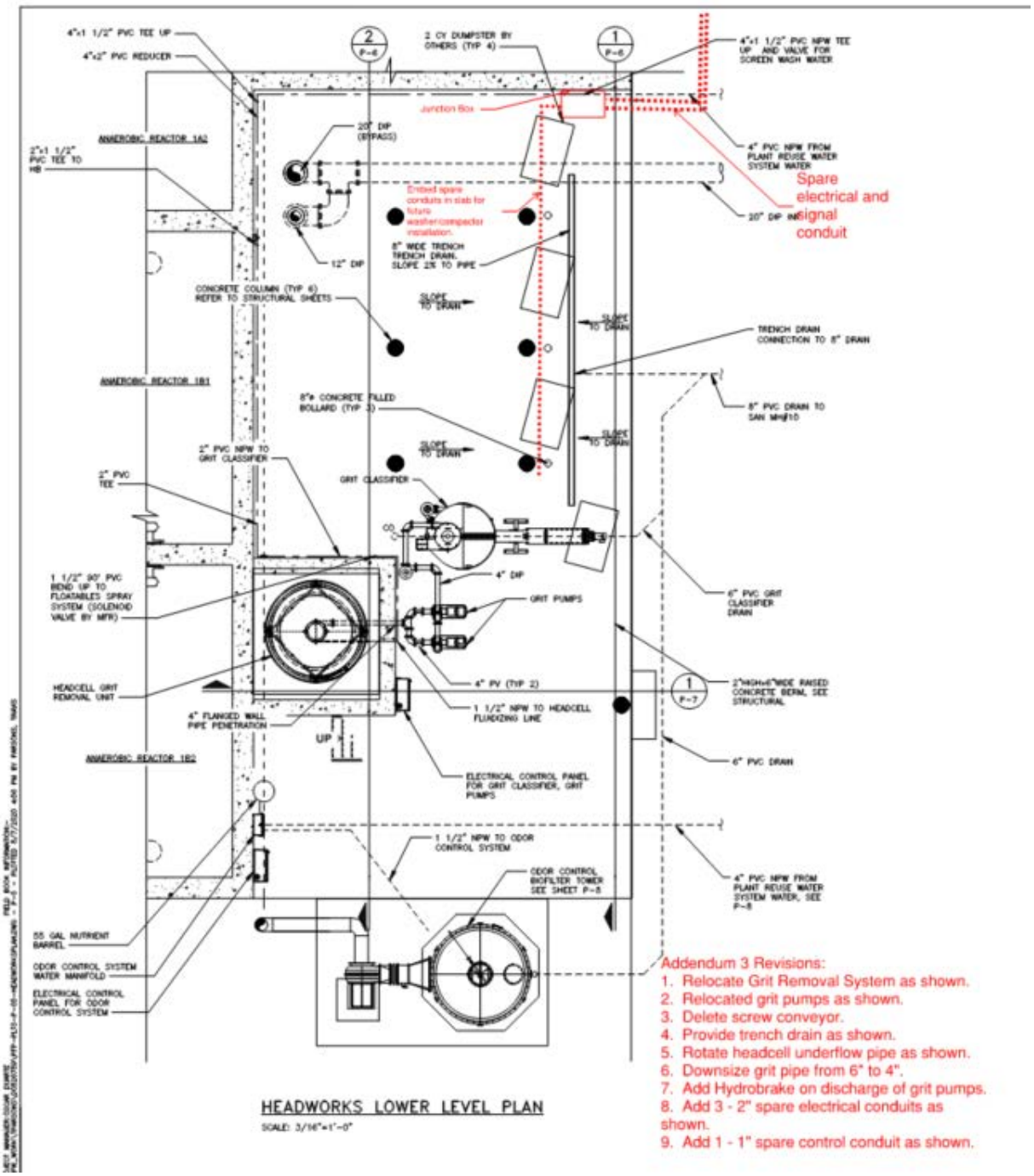
Q46. 1.03.A: This section references an expandable HC unit. The drawings show a full 9' 8 Tray design and the spec outlines a 9' 8 Tray design. Is the Headcell expected to be expandable and what quantity of trays will be required initially? The most recent proposals done in 2018 were for non-expandable units.

A46. The full, non-expandable, Headcell unit will be required to meet the future peak flow.

Remove the term "expandable" from Specification Section 11700 – Grit Removal System, Section 1.03.A

Q47. 2.03.D.3: In 2018 Hydro reviewed 90% documents. As part of that review it was noted that there is not much TDH for a pump to work with in the current layout (i.e. the 15 ft of head listed in the spec isn't available). We had commented that we could supply a HydroBrake to provide more head for the pump to work against and that valve would need to be located such that the centerline of the valve would be 27" above the overflow channel of the Grit washing/classification unit (GritCup). It is not clear in the drawings if there would be enough elevation space above the GritCup to accommodate this layout. I have attached a very crude sketch of what I am talking about as well as a generic HydroBrake drawing. Please confirm there is the headspace above the GritCup centerline to accommodate.

A47. The grit classifier has been moved to the southeast. The layout has been revised to allow sufficient space. See sketch below.



Q48. 2.03.D.4.e: This spec section indicates a stuffing box to accommodate single or double mechanical seal. Typically, there would be seal water required for operation. There is no reference in the spec or in the drawings for a seal water automated valve. Please confirm Hydro is to control a seal water valve on the pump and what type of valve and its electrical requirements.

A48. The stuffing box requirement may be omitted if flushless mechanical seals are used. If the proposed pumps require flush water to be supplied during operation, this may be controlled by an automatic 120 VAC solenoid valve sized adequately for the necessary amount of flow to the pump.

Q49. 2.04.A.1: This section indicates a bronze ball valve, however, section 2.03.A.9

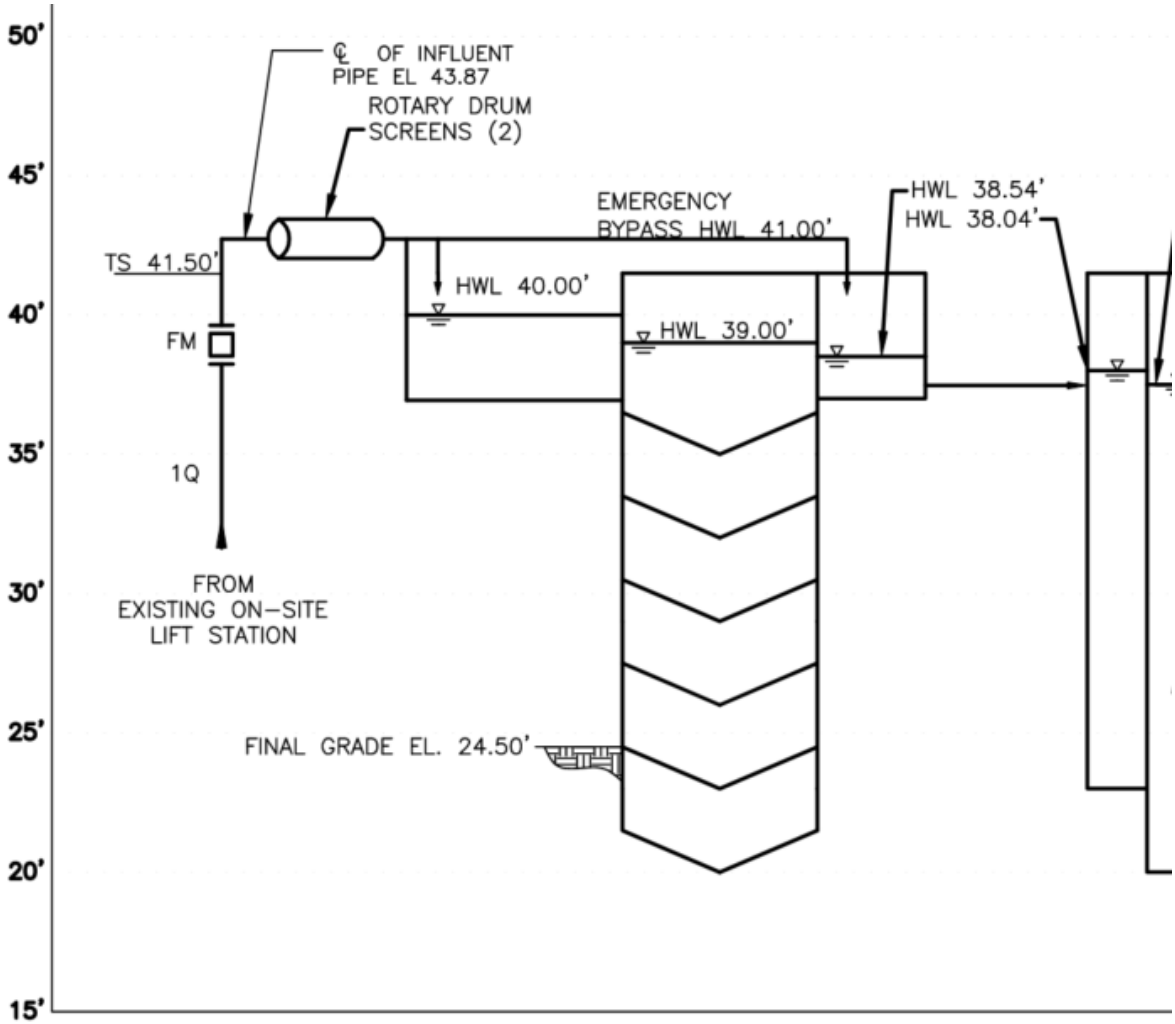
indicates a SS valve. Please clarify what material this valve should be.

A49. Stainless steel ball valves shall be provided. Revise section 11700 – Grit Removal System paragraph 2.04.A.1 from “bronze” to “stainless steel.”

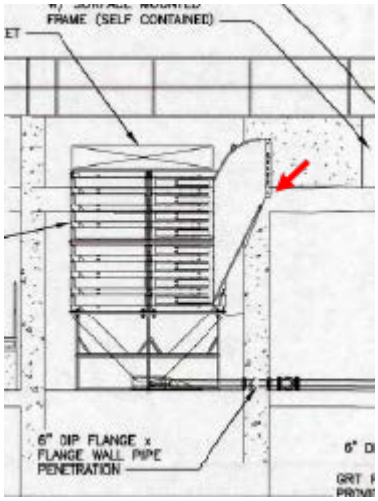
Q50A. 2.03.E: See comments below in the Dwgs section

G-4: There is indication of an emergency bypass HWL of 41.00 and an arrow point down into the Grit Removal tank. Hydro recommends that any bypass is routed around the HeadCell unit not only to allow the unit to be taken off line for maintenance but also to ensure there is no additional flow going into the tank that it is not designed to accommodate.

A50A. The bypass in question on Sheet G-4 is intended to be routed around the headcell unit, see sketch below.



Q50B. P-6: The influent invert of the Grit Removal Unit looks to be falling inside the tank wall. Hydro is not readily finding the elevation of the channel feeding the unit in order to determine what modifications will be required to accommodate that elevation. Please provide the channel elevation.

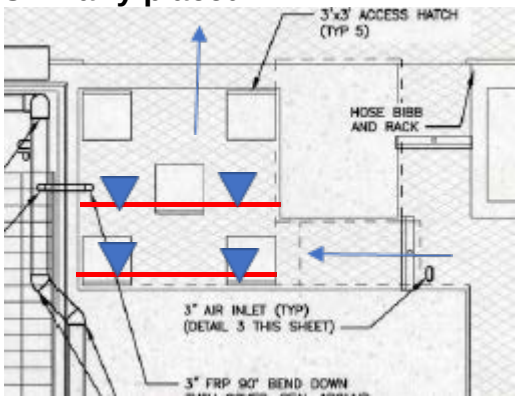


P-6: The grit slurry line is indicated as being 6" in diameter. Industry guidelines recommend a 4-7ft/s pipe velocity and at a pumped flow rate of 200 gpm it would be recommended to reduce the grit slurry piping to 4" in diameter.

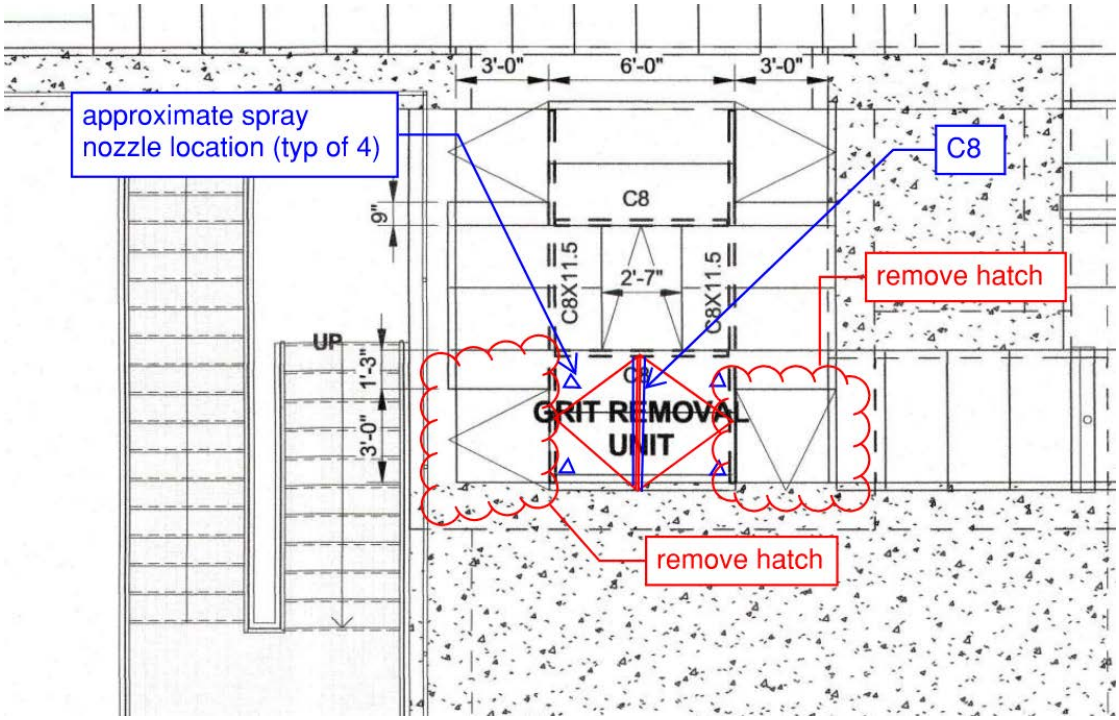
A50B. Response: P-6 Shows the channel elevation at 37.0; the structural sheets show the concrete wall to accommodate the influent channel of the Headcell unit. The wall is correctly shown on Sheet S-14.

On sheets P-5 and P-6 reduce the grit slurry line size from 6" to 4".

Q50C. P-8: The location for the access hatches will be challenging for access to the spray bar system underneath the cover. Below is a rough sketch of the system. There will be two rows each with two spray nozzles. The bottom right triangle is recommended to be 36" away from the influent tank wall and the second nozzle on that same spray bar is 72" away from the first nozzle. The second spray bar is recommended to be 36" away from the first spray bar with the nozzles similarly placed.



A50C. The entire panel is FRP, opening to be confirmed after the grit removal unit is approved. The basis of design shall be modified per the sketch below by increasing the size of the bottom two hatches and moving them to the center of the opening. This will require an additional C8 member.



Q50D. E-3 and E-7F: The Grit Classifier control panel shows a motor for a single pump and a classifier motor and E-Stop (E-7F) and E-3 shows two pumps and two Classifiers. There is no reference to a screw conveyor on either of these drawings and spec section 11700 does not call out a separate E-Stop. Please clarify.

A50D. Screw conveyor has been removed from the design, only one classifier is being installed with conduit run and electrical sized for a second. See sketch on A48. This change required structural modifications, see attached structural sheets 2 to 7, 12, 14, 27, 28.

Note that the new trench drain shown on attached sheet S-3 shall be as described below:

1. 8” wide precast trench drain by “Dura Trench” with the bottom slope from 8” deep to 14” deep with galvanized frame and galvanized grating.
2. Acceptable Manufactures:
3. 8” wide precast trench drain by Dura Trench
4. 8” wide Flow Drain by ACO
5. POLYCAST 800 Series by Hubbell

Q50E. E-8: The grit classifier control panel looks to be located on the wall of the Grit Removal tank. Drawing G-5 indicates that this area is C1D1. Hydro strongly recommends the control panel be relocated to a non-classified area for a number of reasons:

1. NEMA 7 enclosures are only available in small sizes.
2. NEMA 7 enclosures are typically cast aluminum.
3. NEMA 7 enclosures are not serviceable, and not recommended when controlling process equipment.

A50E. Area is Class 1 Div 1. Within 10 ft of classifier this is C1D2, outside it is unclassified.

Control panel can be located further along wall to maintain a 10-foot minimum distance from classifier.

Q50F. E-8: A solenoid valve is shown on the grit tank wall XV-0102201A. There is no callout in Section 11700 for a second solenoid valve to be included in the controls outside of the spray system valve (11700.2.03.A.10). Please confirm who supplies this solenoid valve and what it will be used for. Hydro does not recommend a solenoid valve on the NPW feeding the bottom of the Grit Removal unit's fluidizing line.

A50F. E-8 shows 2 solenoid valves. If your equipment requires only one solenoid valve, that is acceptable. Ultimately, the Contractor is responsible for providing all equipment and materials necessary to complete the work.

Q50G. I-4: There is a connection shown from the Screw Conveyor motor to the Grit Removal panel as well as a solenoid valve associated with the screw conveyor. There is no reference in section 11700 to controlling or powering either of these items. Please provide the electrical requirements and the expected controls scheme we are to incorporate in our controls if Hydro is to power and control.

A50G. Because screw conveyor has been removed by this addendum, electrical and control requirements are not needed.

Q50H. I-4: This drawing does not agree with E-8 on the solenoid valve situation on the Grit Removal unit. This drawing shows a solenoid valve on the fluidizing line and no solenoid valve or any indication on the spray system which would be above the water level in the Grit Removal tank. It is Hydro's understanding that only a single solenoid will be supplied, and it will be for automation of the spray water system. Please confirm.

A50H. See response A50F.

Q51. Can provide any additional information on the specification for high performance coatings and linings (paint) for this project. Carboline will have painting contractors bidding to the general contractors for this project and I'd like to provide this technical information to them. Is this something you can provide for my reference?

A51. Specification Section 09900 provides information related to the required coatings.

Q52. Can a vectorized pdf of the site grading plan be provided to Contractors?

A52. A vectorized pdf will not be provided.

Q53. Would an alternative bid due date be considered to minimize the impact of the long holiday weekend on bid pricing? Moving the bid due date to Thursday 9/3 or Thursday 9/10 would ensure better participation and bid coverage for the Owner.

A53. Please see clarification section of this addendum.

Q54. Was the virtual prebid meeting recorded? If so, could you please provide a link to

the recording?

A54. This recording is available via SharePoint only. Please request through Bonnie Hall at bonnie.hall@pbfl.org.

Q55. The documents say there are MBE/WBE requirements but during the Pre-bid meeting it was stated that there are not MBE requirements. Are there requirements? If so, what is the Goal percentage?

A55. Please see clarification section of this addendum.

Q56. Is there any way we could postpone the bid due date a day or two due to the fact that the current bid due date is the Tuesday after Labor Day?

A56. Please see clarification section of this addendum.

Q57. Specifications call for variable frequency drives to be Square D. Sheet E-29 and E-30 callout Yaskawa VFD's. What manufacturers are approved to furnish VFD's?

A57. Yaskawa only.

Q58. Are VFD's to be furnished by division 16 sub-contractor?

A58. The Contractor is responsible for providing all equipment and materials necessary to complete the work. How acquisition of equipment is conveyed to subcontractors is the responsibility of the Contractor.

Q59. Specification 16050, 2.01.BB indicates the Variable Frequency Drives (VFD) are to be manufactured by Square D. Drawings E-29 and E-30 reflect a Yaskawa 6 and 12 pulse design.

Please clarify if the VFD's are to be provided per the specification or drawings.

If by the specification, please advise if the isolation contactor and bypass starter listed is required as it is not shown on the drawings

A59. Refer to A5 of this addendum.

Q60. Square D does not offer 12 pulse VFD's so is an alternate design utilizing 6 pulse with a line side harmonic filter acceptable?

A60. Refer to A5 of this addendum.

END OF ADDENDUM #3