CLARIFICATIONS TO
CONTRACT DOCUMENTS & TECHNICAL SPECIFICATIONS
J–26963
TRAVIS FIELD WRF
Event # 7169

ADDENDUM NO. 3 **June 25, 2019**

GENERAL

This Addendum has been issued on behalf of the City of Savannah. The following information should be considered by prospective bidders in preparation of their proposals and are hereby incorporated into the Proposal Documents. Bidders shall be responsible for acknowledging receipt of this addendum in the Bid Form. Failure to do so will result in the bid being rejected by the Purchasing Director.

This addendum answers questions received by Friday June 21th, 2019. All questions received after that time will be addressed in a separate addendum that will be issued at a later date.

PART I – CONTRACT DOCUMENTS

The Bid Documents shall be changed in the following respects:

Clarifications:

1- Drawing Sheet M2.0B- Headcell Aluminum cover- Please include additional access hatch, one on the center of headcell, and one at five o'clock position.
2- Add Whipps, Inc. Water Control Gates, as approved supplier for the slide gate and telescoping valves.
3- Add LOC Scientific as approved supplier for the laboratory equipment. Revise fume hood to VAV (Variable Volume Fume Hood) for use with external exhaust control system. The unit shall be similar to Model B616 or approved equivalent.

Attachments

- Specification Section **08 21 11** (Flush Wood Doors)

Questions:

1. Please confirm that all concrete paving as well as the concrete lining of the aeration basin is to be demolished and removed from the site.

   Response: *Yes. Please see plans drawing C2.0, Demolition Legend-All pavement, curbs, sidewalk and walls to be removed and disposed properly.*

2. Specification 02 41 13-2 states that the Contractor shall be responsible for removal and disposal of any asbestos or hazardous materials if encountered. This is highly unusual and is typically carried as a bid item allowance or paid for by the Owner via change order as an unforeseen condition. Please consider including as a bid allowance or that it will be handled as a changed condition. Otherwise the Contractors are guessing at what "risk dollars" to include in their bid for a cost that may not materialize.

   Response: *Please add a line item allowance of* ***$10,000*** *for proper disposal of any asbestos or hazardous materials if encountered.*

3. If the contract requirements do not change in regard to Contractors liability for asbestos and other hazardous materials, please advise if an environmental study or analysis was performed in regard to site conditions.

   Response: *specifications stated. Contractor shall survey the existing site for possible asbestos and any other hazardous materials before start of the demolition. In case of any special handing material presence, the contractor shall remove the material in accordance to the GA. EPD requirements. ~~The cost shall be included in the lump sum contract~~. See line item allowance in item #2 above.*

4. Relative to your previous answer in ADD 1 regarding the construction duration, we would agree with the party asking for additional construction time to substantial completion of 720 days. If the City's final position is to allow 600 days for construction and 90 days for start-up, we will have to reconsider our commitment to bid.

   Response: *Please see response provided in Addendum No. 2*

5. Please provide a heat tracing Specification for this project.

   Response: *There is no heat tracing specified for this project*

6. The current requirements for providing DBE "certifications" at time of bid for each selected DBE make it very difficult to include a correct and accurate accounting of DBE participation. Often it is not possible to even determine the actual low bidder, let alone insure that they have provided proper certification. It also discounts the possibility that we can propose a legitimate DBE based upon fully vetting their bid against other bidders. Given that there is a 7-day period where the DBE Provisions are evaluated, can a 24- or 48-hour period (Post-Bid) be provided to the Contractor so that the certifications for DBE's offering the lowest and most responsible bids can be submitted to the City of Savannah? We believe this accommodation will be beneficial to the local/minority bidders and subsequently to the City relative to local/minority participation.

   Response: *The City of Savanah Office of Business Opportunity will contact the bidders during the 7-day DBE evaluation period to make them aware of any certification that may not be valid and provide bidders the opportunity to replace that sub in a timely manner to ensure compliance. The City of Savannah cannot allow bidders to change bid price once the bid has closed. It is up to the bidders to determine their absolute bottom line prior to bid closing.*

7. Section 40 91 00- Part 2 – Products Paragraph 2.01: Is an Air Blast System required for the DO sensor? It isn't usually needed in wastewater applications unless there are a lot of fats, oils, grease etc. Let me know if an Air Blast System is required.

   Response: *No air blast required*

8. General: Are there any areas of the plant that are classified as hazardous areas? The Aeration Basins? If so, intrinsically safe barriers may be required for some of those signals.

   Response: *No*

9. Specification 44 42 73, 2.7 B1 states that the EQ tank capacity shall be 1,500,000. Gal. with dimension od 100'-0" ID x25'-0" SWD. Please confirm the tank dimensions shall be 113'-9" ID x25-0" SWD (1,900,000-gallons), per drawings M3.0 and M3.1.

   Response: *Yes. The EQ tank volume shall be 1,900,000 gallons*

10. Specification 44 42 73, 2.7 B1 states that the EQ tank shall have a membrane floor with a minimum thickness of 4". Please confirm that the tank shall require a structural floor supported by piles, per drawing Sheet S3.0.

    Response: *Yes. The tank floor shall require a structural floor and be supported by piles. The base slab shall be designed by the tank manufacturer.*

11. Please confirm that this project does not require any Buy American or AIS regulations.

    Response: *The City will self-finance the project and No Buy American or American Iron & Steel (Act) requirements apply.*

12. Please confirm the 24" plug valve shown on the south side of the new Headworks building on the influent force main line, detailed on drawing G1.2. It is not called out on the valve schedule nor shown on the headworks drawings.

    Response: *This been already answered on Addendum #2- see question #6.*

13. Spec Section 31 23 19 – Sludge Dewatering - states that this equipment will be provided by the Owner. Was it your intention to have this as an allowance in the bid form, or is this cost not to be captured in the total cost of the bid?

    Response: *This will be an allowance. a revised bid form will be provided once SCADA allowance is also available. See Appendix H*

14. Spec Section 31 23 19 – Please provide a list of all ancillary equipment that will be provided with the Owner furnished Belt Filter Press. It is unclear whether the polymer feed system, the booster pump, the dry sludge pump and mixing tubes will all be part of the package supplied.

    Response: *see Appendix H*

15. There are multiple references to number of envelopes and documents required to be in each envelope for the bid submission. Below is the list from 00 1050 Bidder's Checklist of the required documents, order of documents, and number of envelopes. Please confirm

the number of envelopes, required documents, and order of documents for submission. Will a separate Acknowledgement of Addenda form be provided? Do Bidder's Qualifications go in a separate sealed envelope or with the other submitting documents?

a. Envelope 1
    i. Acknowledgment of Addendum (No separate document for this, listed on Bidder's Checklist 00 1050 and Bid Proposal (00 1130).
    ii. Bid Bond (00 1137)
    iii. Bid Proposal (00 1130)
    iv. Bidder's Qualifications (00 1135) (Also listed to be in separate envelope)
    v. Contractor Affidavit and Agreement (00 1138)
    vi. Affidavit Verifying Residency Status for City of Savannah Benefit Application (00 1139)
    vii. Certification Regarding Debarment, Suspension, etc. (00 1150)
    viii. Hire Savannah Agreement (00 1305)
b. Envelope 2
    i. Disadvantaged Enterprise Provisions (00 1310)
c. Envelope 3
    i. Bidder's Qualifications

Response: *There is no separate Acknowledgement of Addendum Form. Bidders Qualifications shall be included in Envelope #1 (do not provide an Envelope #3).*

16. Are we to complete a Bidder's Questionnaire? If so, please provide.

    Response: *As the project cost will not be less than $100,000, there is no Bidder's Questionnaire.*

17. Are the documents listed in the Contract Documents Section of specification section 00 1120 (Agreement, Performance and Payment Bonds, Bond Affidavit, Certificate of Insurance, Contractor's and Subcontractor's Certificate concerning Labor Standards) to be completed and submitted with bid or will these documents only be required after the bid date from the successful bidder?

    Response: *These documents are only required of the successful bidder and are provided after the bid date.*

18. Please confirm that sales tax for Allowances will be per the Bid Proposal 00 1130. Currently shown as included for UV System and SCADA System only in 00 1130 but shown as included for all in 01 21 00.

    Response: *Only UV system included the state tax. Add sales tax for all others.*

19. Please confirm that the Building Wage Decision No. GA180129 in section 00 11 10-9 should only be used if a classification does not exist in the Heavy Wage Decision No. GA180089.

    Response: *Confirmed*

20. Page 00 1110-2, Article 6 – Interpretations - states that all questions are due four (4) days prior to bid date. The pre-bid notes state all questions are due by 12:00 p.m. on June 24th. Please clarify.

    Response: *The end of the Q&A period is stipulated in Addendum #2.*

21. Section 00 1050 – Bidder's Checklist – states that (4) Bidder's Qualifications (Section 00 1135) is to be submitted in the bid package; however, further in the same paragraph and on page 00 1135-2 it states to submit Bidder's Qualifications in a separate envelope. Please clarify.

    Response: *See response to question #15, above.*

22. Appendix F, SCADA Allowance is not included in the specifications, please provide.

    Response: *will provide as soon as received*

23. Specification 00 11 35-2, Bidder's Minimum Qualifications, Paragraph Two states the bidder should have a minimum of 10 years of progressive project management. Please provide Owner's/Engineer's definition of "progressive project management."

    Response: *means "continuing" or "ongoing"*

24. A specification on wooden doors cannot be found; however, the door schedule on A1.4 specifies several wood doors. Please provide a specification or additional information for wood doors.

    Response: *See Attached Specification 08 21 11 (Flush Wood Doors)*

25. Specification section 08 71 00 appears to be missing several door numbers for the listing of door hardware sets, specifically doors D206-D218 & D107-D109 are not included. Please clarify required door hardware.

    Response:

    Outside Doors- D101, D102, D105 D107, D108, D109, D206, D214, D218 – ***Hardware Set #3***
    Interior Doors (mechanical)- D106, D201, D202, D204, D216, D217 – ***Hardware Set #4***
    Other Interior Doors- D203, D205, D207, D208, D209, D210, D211, D212, D213, D215 – ***Hardware Set #5***

26. Drawing A1.4, Note 1 states "All door hardware including closures, door stops, hinges, etc. to be stainless steel." Section 08 71 00 allows the use of non-stainless materials for certain components. Please verify the note on Drawing A1.4 shall govern.

    Response: *Note on drawing A1.4 shall govern. (All door hardware shall be S.S.)*

27. On Drawing A4.0, there are 3 doors at the sludge dewatering station. However, they are not shown on the door schedule on Drawing A1.4. Further, Section 13 34 19 2.7E for the Metal Building references the contract drawings for door information. Please provide door material, size, and required hardware for these doors.

    Response: *Doors shall be equivalent to D1 door type with S.S hardware set #3.*

28. Does the Sludge Dewatering Building require interior insulation and interior wall paneling? Reviewing drawing A4.0 of the plan set, and spec section 13 34 19 (Metal Building Systems), there is no mention of this requirement.

Response: *Please include minimum 2" thick, 3 lb. density fiberglass insulation blanket for all interior wall and roof panels. No interior wall panel is needed.*

29. 02 41 13, 1.09. C. Directs the Contractor to perform an asbestos and hazardous material survey on the site prior to start of the demolition work. It goes on to state that the Contractor must remove any hazardous materials found and this cost shall be included in the lump sum contract. The scope of removing hazardous materials will not be known until a hazardous material survey is performed. Therefore, it is impossible for Bidders to estimate this cost prior to the bid. Please consider setting up an allowance for hazardous material removal or have the City directly pay for this cost.

    Response: *Please see response to question #2*

30. Drawing C2.0 Demolition Note 8 states All Structures to be demolished shall be completely removed above and below grade.
    a. Note 10 states Where new piling is to be driven over the existing structures… the entire bottom concrete slab (regardless of depth) must be complete removed.
    b. 02 41 13, 3.02. B. States structures and foundations shall be removed to depth of not less than 10 ft. Where new pilings are to be driven over existing structures, the entire concrete slab must be removed.

    Please clarify demolition requirement – must all structures be completely removed above and below grade, or can an existing below grade slab remain if there will not be new piles driven over top of it?

    Response: *Where new pilling is to be driven, the entire concrete slab, piping, etc. shall be removed regardless of depth****. All other areas-*** *up to 10 ft. deep, all concrete structures and piping, etc. shall be removed.*

31. 02 41 13 3.03. A. This section allows the Owner an option to salvage certain desirable equipment and electrical items from the demolition work. Demolition contractors often use salvage values to offset their costs. Please clarify if the Owner does intend to salvage any equipment so that the most competitive demolition bids may be prepared.

    Response: *The salvage material can be utilized by the demolition contractor at his discretion.*

32. Regarding Bid Item 8 – Remove and Replace Unsuitable Material – Please clarify the scenarios when it may be used:
    a. Please verify Bid Item 8 may be used for undercutting or removing and replacing unsuitable subgrade material at structures, pipe trenches, and for pavement.
    b. The existing aeration basin appears to contain a significant amount of unsuitable organic matter from vegetation growth inside the tank. Since this cannot be accurately quantified at this time please verify Bid Item 8 may be utilized for removing and hauling off this material.
    c. Please verify Bid Item 8 may be utilized in the instances where native soils are found to be unsuitable for structural and pipe trench backfill.

    Response: *Bid Item No. 8 can be used for the unsuitable material.*

33. Specification section 33 05 01.03-part 2.05 D. calls for 316 SSTL bolts and nuts. Spec section 33 05 01.03-part 2.05 B. 3. states that unless otherwise specified, bolts and nuts for flange assemblies shall conform with paragraph 40 27 05.04-2.01C. Spec section 40 27 05.04-2.01C. states that unless otherwise, bolts shall be carbon steel and 316 SSTL for

submerged service. Note 21 on drawing G0.3 states that all bolts and all threaded rods shall be type 316 SSTL and all nuts shall be type 304 SSTL. Please clarify what material bolts and nuts to use for each application.

Response: *Note 21 on G03.0 supersede all other references*

34. Specification section 40 27 05-part 1.01 A. 2. states that the design of the piping supports, seismic restraints and provisions for the control of dynamic forces and pipe expansion for buried and exposed piping shall be the product of a professional engineer currently licensed to practice in the State of South Carolina. Please advise if the licensed state shall be Georgia.

    Response: *Revise license state to Georgia*

35. There are several valves depicted inside manholes on drawings G1.2 and G1.3. Please advise if the valves in the manholes shall be flanged or mechanical joint.

    Response: *Flanged*

36. Please provide a detail for the valves located inside manholes.

    Response: *Please see typical City of Savannah precast manhole with valve*.

37. Are the manually operated valves installed inside the manholes to include nut operators with extension stems and valve boxes cast in concrete or handwheels?

    Response: *Manually operated valves shall include nut operators positioned directly below the manhole ring opening, allowing for operation by T-bar wrench***.**

38. Drawing G1.2 depicts a valve and manhole between (2) 24" tees on the force main at the southeast side of the headworks. This valve and manhole are not depicted on drawing M2.0A or M2.0B. Please advise if the valve and manhole are required. If required, please provide the diameter of the manhole and the tag number for the valve.

    Response: *yes. Please see Addendum #2. Item #6.*

39. Spec section 33 05 01.03-part 2.05 B. 1. states that unless otherwise specified, restrained joints are required for all exposed and buried piping. Drawings M11.2 and M11.3 include restraint tables for various fittings in both PVC and DIP. Please advise if the buried PVC and DIP shall be fully retrained or restrained per the tables on drawings M11.2 and M11.3. If the restraint tables are to be followed, please provide tables for each type of fitting on the project. For example, horizontal 11.25, 22.5 and 45 bends, caps/dead ends, etc.

    Response: *All buried PVC and Ductile Iron shall be fully restrained.*

40. Spec section 33 05 01.03 part 2.07 states to use cement lining for water and reuse water, 401 epoxy lining for sewage service and glass lining for grit. Please advise at what point cement lining is required for the process pipe. Is all the pipe from the permeate pump discharge and beyond cement lined?

    Response: *Cement lining shall be used only for treated effluent. From the permeate pump discharge and beyond.*

41. Section 2 on drawing M5.1 calls out an 8" x 6" reducing 90. Drawing G1.2 depicts 6" pipe routed to the sludge dewatering building with a reducer. Drawing M5.2 depicts the sludge pump discharge as 8" diameter and G1.2 depicts the same line as 6". Please confirm the 8" x 6" reducing 90 is not required and the sludge pump discharge shall be 6".

    Response: *The reducing 8"x6" 45 shall be used after the Plug valve V402. The discharge from this point shall be 6" all the way to sludge building.*

42. The sludge feed line to the sludge dewatering building on drawing M5.0 does not match drawing G1.2. For example, there is a 6" x 4" reducer and a clean out on drawing G1.2 which is not on drawing M5.0. Please clarify which drawing to follow.

    Response: *See response for above question*

43. Drawing G1.2 depicts (2) 6" cleanouts on the sludge pump discharge. Please provide a detail for a pressure style cleanout.

    Response: *No clean out needed*

44. Please provide a plan and section view depicting how the 8" sludge line shall connect to Dig. #2. For example, does this pipe connect to a pipe or floor drain?

    Response: *The 8" floor drain line is used to feed the sludge pump (see G1.3). Plug valve VA03 can also be used to drain the tank if needed.*

45. Section 33 05 01.10-part 2.1 A. 2. states that the required pipe SDR shall be determined by a GA professional engineer to meet operational and load conditions encountered after and during construction. The minimum SDR is specified to be SDR 17. Please confirm that the calculations shall be included in the cost of the bid. If calculations are required to be included in the bid, please provide the operational and load conditions in order for the engineer to perform the calculations necessary to be included.

    Response: *Disregard this reference. The pipe was already determined to be SDR 17*

46. Section 33 05 01.10-part 2.1 A. 2. states that the pipe diameter shall be 16" inside diameter (in bold text). There is 3" HDPE pipe on the project. Please clarify what this 16" inside diameter applies to.

    Response: *This refers to M12.0 drawing for 16" inside diameter (or approx.18" outside diameter) effluent force main under the pipemakers canal.*

47. Please specify the diameter of the (2) manholes near the bottom of drawing G1.2. These manholes are for (1) 14" gate valve and (1) 24" gate valve.

    Response: *Use 6' diameter for 14" valve and 8' dia. for 24" valve.*

48. Drawing G1.2 note 7 states that all drain lines under concrete structures shall be DI. Please clearly define what a structure means. For example, there is a concrete slab at the headworks with drain lines under it, see drawing M2.0A. Section 1 on drawing M2.2 calls these lines out to be PVC. Section 1 on M2.3 also calls the 4" under headworks to be PVC. Please define a structure versus a slab in regard to using 401 lined DIP for under slab pipe.

    Response: *The note shall read (all drain lines under concrete structures or concrete slab shall be D.I). Disregard all reference to PVC drain line.*

49. Section 1 on drawing M2.1 calls out (3) 8"x6" reducing tees on the drain line. Drawing M2.0B calls these same reducing tees out as 8"x4" reducing tees. Please clarify what the branch diameter shall be for these reducing tees.

    Response: *8"x4"*

50. Drawing G1.3 depicts a new manhole north of the sludge dewatering building. Drawing M5.0 does not depict a manhole at this location. Please confirm SMH#2 is required per drawing G1.3.

    Response: *Yes. SMH #2 is required*

51. Drawing G1.3 (southeast side of MBR) calls out drains in several locations on the 8" drain lines but no cleanouts. There are several risers that are not called out to connect to a floor drain, cleanout or to above grade lines (drawings say (2) 8" 45 D.I.R.J. vertical bends). Please clarify if a floor drains or cleanout is required on the risers that do not clarify what to connect to. This is typical for all the underslab pipe at the MBR's also.

    Response: *All 4" line branched out of main 8" drain line with (2) 45s are floor drains or connected directly to WAS pump discharge or other drains. Please also see M4.5, and M4.9. All other (2) 8" 45 under the MBR slab for each tank represent floor drain. Please add 2- cleanout at end of each 8" drain lines (on westside).*

52. Spec section 33 30 00-part 2.3 A. states that pipe 4" - 12" shall conform to all requirements of AWWA C900, DR 25. Drawing G1.3 calls out DR 26 in several locations for pipe diameters within the 4" - 12" range. Please clarify the C900 DR ratings required for all pipe diameters.

    Response: *C900 DR 25 ratings required for all pressure & gravity pipe diameters.* SDR 26 ASTM D 3034 can also be used for gravity sewer lines.

53. Please clarify what is considered to be suitable material in regard to pipe trench backfill.

    Response: *We consider suitable material should be non-plastic granular material containing less than 25 percent fines passing the No. 200 sieve for pipe trench backfill*

54. Part 4.3 of the geotech report states that based on SPT borings, the project site mainly consists of sandy clays at an elevation of 12 feet where the bottom of new treatment tank is. The sandy clays are not suitable for structural fill. As such it is anticipated that an offsite borrow source is required for the structural fill material. Please advise if the sandy clays in the first 12 feet are acceptable for backfilling pipe trenches and manholes.

    Response: *The sandy clays are not acceptable for the backfilling pipe tranches and manholes*

55. Please provide the diameters for all new sanitary manholes depicted on drawing G1.3. It appears that SMH #7 is larger than the other sanitary manholes.

    Response: *All sanitary manholes are 4' in diameter. Manhole #7 is 6' diameter.*

56. Note 22 on drawing G0.3 states that all fittings to be restrained with mega-lugs. Please confirm mega-lugs are required on mechanical joint fittings used on gravity/sewer lines.

    Response*: No mega-lugs are needed on gravity /drain lines*

57. Note 12 on drawing G0.4 states that all storm pipe joints shall be wrapped in filter fabric per the specifications. Please provide the specification for the filter fabric required at the storm pipe joints.

    Response: *All filter fabric* Shall be a non–woven heat–bonded fiber of polypropylene and nylon filaments equivalent to **Mirafi 140 N**. The fabric shall be finished so filaments will retain their relative position with respect to each other. Fabric shall contain stabilizers and/or inhibitors added to the base plastic to make filaments resistant to deterioration due to ultraviolet and/or heat exposure. The product shall be free of flaws, rips, holes, or defects.
    All tongue and groove joints shall receive one layer of filter fabric completely around exterior of the joint. Filter fabric shall be a minimum of 2 feet wide, centered on the joint, and overlapped a minimum of 1 foot.

58. Note 6 on drawing G0.3 states that the contractor shall be trained and licensed to work on AC pipe. Please define what AC stands for and provide the training/licensing requirements necessary.

    Response: *Please disregard this note*

59. Spec section 33 30 00-part 2.1 B. States that all DIP shall be pressure class 350 unless otherwise noted. Spec section 33 05 01.03 part 2.02 includes a table that defines DIP pressure class by pipe diameter. Please clarify which spec section to use for selecting the pressure class for the DIP.

    Response: *Please refer to table in Section 33 05 01.03*

60. Drawings M11.2 & M11.3 include tee restraint tables for both DIP and PVC. There are two columns in the table. One is labeled as 10' and the other is 20'. Please clarify what the 10' and 20' columns represent.

    Response: *The columns labeled 10' & 20' represent U1 or U2. If U are between 5-10 ft. or 10 to 20', the L joints shall be restraint according to the applicable chart.*

61. Exterior staircases are noted to be steel framed on drawings S2.1, S4.2 and S4.3. They are noted to be aluminum on drawings A0.1, A2.0, 2.1, and A5.3. Are all exterior staircases to be galvanized steel or aluminum?

    Response: *All exterior staircases and hand rails shall be Aluminum*

62. The railing on the interior steel pan stairs on drawing A3.3 is shown to be aluminum. Should the railing on this staircase be welded steel to match the staircase material?

    Response: *This staircase shall be painted welded steel.*

63. Drawing S2.0 – The sections on the main slab are shown as 24". On p. M2.1, the sections on the main slab are shown as 24" under the grit, and scale to 8" elsewhere. Please indicate which is correct.

    Response: *refer to structural drawings for all structural dimension (concrete slab, wall thickness, etc.).*

64. Drawing M2.1 – the slab outside the main structure where the Grit Pump and Dumpsters are scales to 8". Please confirm 8" is the depth of the slab in that area.

    Response *The concrete slab outside of main structure (under the dumpsters) shall be 12" thick x 93' x 13.5 ft. with #5 rebars @ 12" O.C. E. W. top and bottom.*

65. Drawing M2.2 – the 8" slab for the dumpsters is not on the Structural drawings. Does this slab need rebar or wire mesh reinforcing?

    Response: *See # 64*

66. Drawing S4.11, Detail 3 – The measurement marked as "2'=6" "scales to 3'-0". The rest of the measurements appear to scale correctly. Please indicate whether the drawing is drawn wrong, or that measurement is mislabeled.

    Response: *The concrete pad thickness directly under the generator varies due to slope of concrete foundation. The top of concrete pad will remain 13.65'.*

67. Drawing M3.2 and M3.3 - show encased pipe under the Equalization Tank. All other structures do not appear to have pipe encasements underneath. Please confirm which structures are to have encased pipe underneath.

    Response: *Only pipes under the EQ tank (prestressed tank) need to be encased.*

68. The metal platform on DWG S4.2 at PAX-01 is called out to be by PEMB but is outside the PEMB erector's scope. The platform and structural steel appear to support the discharge piping for the 12" submersible pumps. Please provide details for the platform and structural steel.

    Response: Please refer to Section 40 05 15 (pipe hangers and pipe supports) for all pipe support design.

69. The graphic scale of 1 inch = 1 ft, shown on Drawing M3.0, is incorrect. Please confirm the 1/8"=1'-0" scale shown under section heading is correct.

    Response: *1/8" = 1'-0" is correct*

70. Please confirm the future 12" flanged plug valve (V309), 12" flanged check valve (V305), 16" flanged plug valve (V301) shown on Drawings G1.5 and M3.5 including the future EQ pump, pipes, and accessories connected to them are not required for this contact.

    Response: *Correct. Not required*

71. Provide scale and/or dimensions for Dwg M10.0.

    Response: *1" = 3'-0"*

72. Dwg M5.0 calls out a 1" PVC Ball Valve (V411) at the Neat Polymer Metering Pump, but it's not on the Valve Schedule shown on G1.5. Please add to the valve schedule.

    Response: *This has been added to the valve schedule.*

73. Section 1 on Dwg M4.20 shows the process air (PA) line from headers to the MBR Air Scour Blowers 1 thru 4 as 08" diameter. The Kubota Process & Instrumentation MBR Aeration System drawing shows this line reducing to 06" diameter prior to the butterfly valve at the MBR Air Scour Blowers 1 thru 4. Please confirm the pipe sizes will be as shown on this Kubota drawing.

    Response: *The size of process air piping including in Drawing M4.20 is correct. MBR Air Scour process air piping, including the butterfly valve for isolation of each blower, will be 8-inch diameter until immediately before connecting to the blower where it will be reduced down to 6 inches to match the blower discharge connection. KMU P&ID 7/15 shows the butterfly valve in the incorrect position. These butterfly valves will be downstream of the 6" x 8" transition.*

74. Section 1 on Dwg M4.21 and Section 2 on M4.20 shows the process air (PA) line from headers to the PA Diff Blowers as 10" diameter. The Kubota Process & Instrumentation MBR Aeration System drawing shows this line reducing to 08" diameter prior to the butterfly valve at the PA Diff Blowers 1 thru 3. Please confirm the pipe sizes will be as shown on this Kubota drawing.

    Response: *The size of process air piping including in Drawing M4.20 and M4.21 is correct. PA Diffuser process air piping, including the butterfly valve for isolation of each blower, will be 10-inch diameter until immediately before connecting to the blower where it will be reduced down to 8 inches to match the blower discharge connection. KMU P&ID 7/15 shows the butterfly valve in the incorrect position. These butterfly valves will be downstream of the 8" x 10" transition.*

75. Specification Section 33 05 01.03- 2.05.B.4 states that mechanical joints with retainer glands are not acceptable, however 2.05.B.5 states that restrained joints shall be EBBA Megalug or approved equal. In addition, Drawing G0.3 Note 20 states that joint restraints for MJ Fittings shall be EBBA Series 2000 PV & note 22 states that all Fittings to be Megalug. Should all buried Ductile Iron Pipe Systems be Restrained Joint Pipe with MJ fittings & Megalugs?

    Response: *All buried mechanical Joints for PVC & HDPE pressure pipe shall be restraint with EBBA 2000 PV mega-lug. All buried mechanical joint for Ductile Iron pipe shall be restraint with EBBA series 1100 mega-lug. No need to restraint buried D.I drains line.*

76. Drawing M2.0B calls for Drain Piping to be PVC. Drawing M2.1 calls for the same Drain Piping to be Ductile Iron. Which is the correct material for this System & if PVC what Class Pipe should the System be?

    Response: *All buried drain lines shall be D.I*

77. Specification Section 40 29 19- 2.02.A states that valve shall be manufactured by Dezurik. No other valves are acceptable. Would consideration be given to any other valve manufacturer?

    Response: *According to the City of Savannah specifications, all plug valves shall be Dezurik. No other valves are acceptable.*

78. Mixing System Inc. based in Ohio is requesting consideration as an Approved Equal for Jet mixing equipment for the EQ tank.

    Response: *City of Savannah have standardized majority of their treatment plant equipment (pump, valve, screens, mixing, etc.) based on parts, service, training, and access to manufacturer representative. Therefore, the request for substitution is denied for this project.*

All other aspects of the project remain unchanged.

End of ADDENDUM NO.3