

June 26, 2020

CONTRACT NO. 1728 G, E, H, P

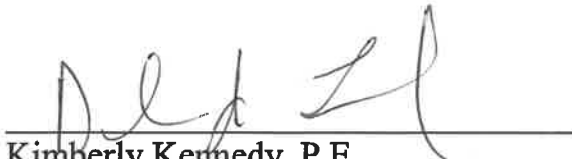
RAS PIPE AND PUMP REPLACEMENT

ADDENDUM NO. 2

All bidders bidding Contract No. 1728 G, E, H, P shall read and take note of this Addendum No. 2. The Contract Documents for **Contract No. 1728 G, E, H, P – RAS Pipe and Pump Replacement** are hereby revised and/or clarified as stated below.

Acknowledgement of Contract No. 1728 G, E, H, P; Addendum No. 2

The Acknowledgement attached to Addendum No. 2 is to be signed and returned immediately via fax or email to John Findley at 412-734-8716 or John.Findley@alcosan.org and acknowledged with Bidder's Proposal.

For 

Kimberly Kennedy, P.E.
Director – Engineering and Construction

**ACKNOWLEDGEMENT OF
CONTRACT NO. 1728 G, E, H, P - RAS PIPE AND PUMP
REPLACEMENT**

ADDENDUM NUMBER 2

FIRM NAME: _____

SIGNATURE: _____

TITLE: _____

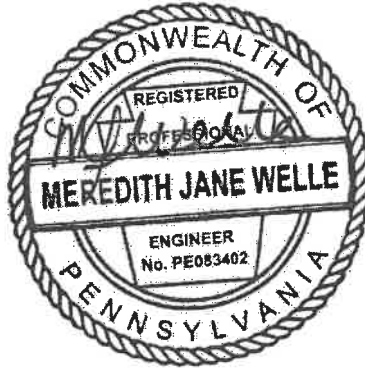
DATE: _____

JUNE 26, 2020

CONTRACT NO. 1728 G, E, H, P

RAS PIPE AND PUMP REPLACEMENT

ADDENDUM NO. 2



JUNE 26, 2020

CONTRACT NO. 1728 G, E, H, P

RAS PIPE AND PUMP REPLACEMENT

ADDENDUM NO. 2

A. Contract Documents – Volume 1

1. *(No Items)*

B. Contract Specifications – Volume 2

1. Summary of Work (Section 01 11 00)
 - a) Page 01 11 00 – 1, Section 1.2.A.1. DELETE the entirety of item 1.2.A.1.a, and REPLACE with the following:
“Any and all excavation, backfilling, disposal of excess material, bedding, concrete encasement, and all site improvements for work in 1728G, 1728E, 1728H, and 1728P contracts.”
 - b) Page 01 11 00 – 2, Section 1.2.A.1. ADD item j. stating the following:
“Installation of roof hydrants and hose racks0”
 - c) Page 01 11 00 – 2, Section 1.2.A.1. ADD item k. stating the following:
“Installation of roof hydrants and hose racks”
 - d) Page 01 11 00 – 2, Section 1.2.A.4. DELETE item 1.2.A.4.b.
 - e) Page 01 11 00 – 2, Section 1.2.A.4. DELETE item 1.2.A.4.d.
 - f) Page 01 11 00 – 4, Section 1.10.B, ADD item 1.10.B.5 stating the following: “5. Allegheny County Health Department Plumbing Permit.”
2. Fluid Applied Waterproofing (07 14 00)
 - a) DELETE the entirety of this specification.
3. Crystalline Cementitious Waterproofing (07 16 16)

a) DELETE the entirety of this specification.

4. Louvers and Vents (Section 08 90 00)

a) DELETE the entirety of this specification.

C. Contract Specifications – Volume 3

1. *(No items)*

D. Contract Drawings – Volume 4

1. AS-01

a) In DOOR SCHEDULE, REPLACE all frame openings currently listed with MATL "SS" with MATL "FRPD"

2. 911-HDM-10

a) DELETE NOTE "DEMOLISH AND REMOVE LOUVER, DAMPER, AND ALL ASSOCIATED WIRING, CONDUIT, ETC. BLANK OFF" and REPLACE with the following:
"DEMOLISH AND REMOVE DAMPER, AND ALL ASSOCIATED WIRING, CONDUIT, ETC. BLANK OFF, REFER TO DETAIL F ON DRAWING AD-60."

3. 912-HDM-10

a) DELETE NOTE "DEMOLISH AND REMOVE LOUVER, DAMPER, AND ALL ASSOCIATED WIRING, CONDUIT, ETC. BLANK OFF" and REPLACE with the following:
"DEMOLISH AND REMOVE DAMPER, AND ALL ASSOCIATED WIRING, CONDUIT, ETC. BLANK OFF, REFER TO DETAIL F ON DRAWING AD-60."

4. 921-HDM-10

a) DELETE NOTE "DEMOLISH AND REMOVE LOUVER, DAMPER, AND ALL ASSOCIATED WIRING, CONDUIT, ETC. BLANK OFF" and REPLACE with the following:
"DEMOLISH AND REMOVE DAMPER, AND ALL ASSOCIATED WIRING, CONDUIT, ETC. BLANK OFF, REFER TO DETAIL F ON DRAWING AD-60."

5. 922-HDM-10

- a) DELETE NOTE "DEMOLISH AND REMOVE LOUVER, DAMPER, AND ALL ASSOCIATED WIRING, CONDUIT, ETC. BLANK OFF" and REPLACE with the following:
"DEMOLISH AND REMOVE DAMPER, AND ALL ASSOCIATED WIRING, CONDUIT, ETC. BLANK OFF, REFER TO DETAIL F ON DRAWING AD-60."

6. 827-H-10

- a) DELETE in its entirety the Note and REPLACE with the following Note:
"ALL ROOF REPAIR AND TIE OFF ANCHOR INSTALLATION TO BE PERFORMED BY THE GENERAL CONTRACTOR"

7. 836-H-10

- a) DELETE in its entirety the Note and REPLACE with the following Note:
"ALL ROOF REPAIR AND TIE OFF ANCHOR INSTALLATION TO BE PERFORMED BY THE GENERAL CONTRACTOR"

8. 837-H-10

- a) DELETE in its entirety the Note and REPLACE with the following Note:
"ALL ROOF REPAIR AND TIE OFF ANCHOR INSTALLATION TO BE PERFORMED BY THE GENERAL CONTRACTOR"

9. 911-H-10

- a) DELETE the entirety of KEYNOTE 1 and REPLACE with the following:
"RH-1: PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR. 3/4" EWH SUPPLY AND HOSE RACK BY GENERAL CONTRACTOR."

10. 912-H-10

- a) DELETE the entirety of KEYNOTE 1 and REPLACE with the following:
"RH-1: PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR. 3/4" EWH SUPPLY AND HOSE RACK BY GENERAL CONTRACTOR."

11. 921-H-10

- a) DELETE the entirety of KEYNOTE 1 and REPLACE with the following:
"RH-1: PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR. 3/4" EWH SUPPLY AND HOSE RACK BY GENERAL CONTRACTOR."

12. 922-H-10

- a) DELETE the entirety of KEYNOTE 1 and REPLACE with the following:
"RH-1: PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR. 3/4" EWH SUPPLY AND HOSE RACK BY GENERAL CONTRACTOR."

13. 930-P-10

- a) DELETE Keynote 2.
- b) DELETE Keynote 4.
- c) DELETE Note 2, and REPLACE with the following:
"6" PCW DEMOLITION, CUTTING, AND PATCHING TO BE PERFORMED BY GENERAL CONTRACTOR."

14. 911-P-10

- a) DELETE Note 2, and REPLACE with the following:
"CUTTING AND PATCHING TO BE PERFORMED BY GENERAL CONTRACTOR."

15. 912-P-10

- a) DELETE Note 2, and REPLACE with the following:
"CUTTING AND PATCHING TO BE PERFORMED BY GENERAL CONTRACTOR."

16. 921-P-10

- a) DELETE Note 2, and REPLACE with the following:
"CUTTING AND PATCHING TO BE PERFORMED BY GENERAL CONTRACTOR."

17. 922-P-10

- a) DELETE Note 2, and REPLACE with the following:
"CUTTING AND PATCHING TO BE PERFORMED BY GENERAL CONTRACTOR."

18. ES-02

- a) ADD new line for CONDUIT NUMBER I-912-0001. FROM FIT F912PRS000 TO RIO50-921, CONDUIT SIZE 3/4", CONDUCTOR QTY/SIZE 1-2/C SHIELDED, REMARKS LOOP POWERED"

19. ES-03

- a) ADD new line for CONDUIT NUMBER I-921-0001. FROM FIT F921PRS000 TO DPU50-921, CONDUIT SIZE 3/4", CONDUCTOR QTY/SIZE 1-2/C SHIELDED, REMARKS LOOP POWERED"

20. ES-04

- a) ADD new line for CONDUIT NUMBER I-922-0001. FROM FIT F922PRS000 TO RIO50-922, CONDUIT SIZE 3/4", CONDUCTOR QTY/SIZE 1-2/C SHIELDED, REMARKS LOOP POWERED"

E. Questions

1. **QUESTION:** Reference E-03 Electrical Proposed Sequence of Construction Temporary Motor Control Center
 - A. Are you going to provide Elementary drawings for the Temporary RAS Pump VFD's and Collector Drive Starters?
 - B. Are you going to provide Schematics for the temporary pump control panel?
 - C. Do you have a functional description for the temporary pump control panel?
 - D. What size feeder breakers are need for:
 - I. Spare Bypass Pump
 - II. Transformer
 - E. What Size Transformer is required?
 - F. Are you going to provide details for the Temporary Lighting Panel?
 - G. Are the Gates going to be operated manually?

RESPONSE:

- A. All temporary motor controls are to match existing. Diagrams are found on Plant O&M documents, which can be requested from Construction Manager.
- B. Contractor is responsible for design and construction of temporary control panel. Refer to Maintenance of Plant Operations specification 01 52 00.
- C. Refer to the Maintenance of Plant Operations specification 01 52 00 for a brief description of RAS station equipment required to be operational during construction.
- D. I. Proposed size of bypass pump is 150HP. For bidding purposes size conductors for 150HP motor per NEC. II. Conductors to be sized per NEC.
- E. Contractor to determine size per temporary construction load demands.
- F. Contractor to determine size per temporary construction load demands.
- G. Yes. Existing gates will be operated manually during construction.

2. **QUESTION:** Spec Section 01 11 00 Summary of Work
- A. Which contract is responsible to furnish instruments?
 - B. Which contract is responsible to install instruments?
 - C. Which contract is responsible for concrete pads?
 - D. Which contract is responsible for temperature control wiring?

RESPONSE:

- A. Per 01 11 00, Section 1.2.A.2.c, the E contract will furnish instruments.
- B. Per 01 11 00, Section 1.2.A.2.c, the E contract will install instruments.
- C. Per 01 11 00, Section 1.2.A.2.f, the E contract will electrical equipment pads.
- D. Per 01 11 00, Section 1.2.A.2.h, the E contract will be responsible for power and control wiring for H contract equipment.

3. **QUESTION:** The following instruments are shown on plan drawings but not shown on conduit and cable schedules

Drawing 930-E-11	FIT F921PRS001
Drawing 930-E-12	FIT F912PRS001
Drawing 930-E-14	FIT F922PRS001

RESPONSE: The instrument numbers in question are FIT F912PRS000, FIT F921PRS000, and FIT F922PRS000. None of these instruments have a 001 designation. Conduit and cable schedules have been updated accordingly via this addendum with the applicable information.

4. **QUESTION:** Is an Instrument list going be provided?

RESPONSE: The instrument list was provided in Addendum 1.

5. **QUESTION:** Is an I/O List going to be provided?

RESPONSE: The I/O List was provided in Addendum 1

6. **QUESTION:** 26 05 33 Raceways

- A. Paragraph 3.3B Permitted Raceway Types per Area Designations. Is there a drawing, listing or schedule indicating these different area designations?
- B. Paragraphs 3.5A & B Permitted Conduit Supports per Area Designations. Is there a drawing, listing or schedule indicating these different area designations?
- C. Paragraphs 3.6B & C Permitted Outlet / Pull and Junction Boxes per Area designations. Is there a drawing, listing or schedule indicating these different area designations?

RESPONSE: Refer to Specification Section 01 11 00, Section 1.15 – Classification of Environments.

7. **QUESTION:** Articles 3.76 & 3.77 could be confusing. Iron and steel products for PA Steel Procurement Act projects require 75% domestic content but your "BUY AMERICAN" paragraph implies that an additional standard could be in play as well. Since there is no AIS funding mentioned, can we assume that PA Steel rules alone apply?

RESPONSE: Proceed with requirement of the PA Steel Procurement Act.

8. **QUESTION:** The PA Steel Procurement Act dictates that at least 2 product sources be named in project specs. Attached is a copy of your plug valve spec that only lists 1 source. We have been supplying Mueller /Henry Pratt Plug Valves to ALCOSAN for many years with no complaints. I respectfully request that you add Mueller/Pratt to your plug valve spec as an accepted supplier.

RESPONSE: ALCOSAN will not be adding any vendors to the list for any of the listed equipment vendors during the bid period. Not listed vendors will have to go through the or-equal process if submitted by the successful bidder after the notice to proceed.

9. **QUESTION:** Your butterfly valve spec only lists 1 source. As stated in my previous e-mail regarding plug valves, The Pa Steel Act dictates that more than 1 source of supply be listed. I have analyzed the job spec and attached are drawings showing Mueller / Pratt valves that comply. I am asking that you add Pratt to your list of accepted manufacturers. ALCOSAN has been using Pratt Butterfly Valves for many years.

RESPONSE: ALCOSAN will not be adding any vendors to the list for any of the listed equipment vendors during the bid period. Not listed vendors will have to go through the or-equal process if submitted by the successful bidder after the notice to proceed.

10. **QUESTION:** Your check valve spec differs from your plug valve and butterfly valve spec in the fact that Spec 40 05 66 lists 3 manufacturers. See the attached spec. The problem is that Clow no longer makes check valves and American only makes checks up to 16" in diameter. That leaves Golden Anderson as sole the named source. I am requesting that Mueller / Pratt Swing Check Valves be added to your accepted manufacturer list.

RESPONSE: ALCOSAN will not be adding any vendors to the list for any of the listed equipment vendors during the bid period. Not listed vendors will have to go through the or-equal process if submitted by the successful bidder after the notice to proceed.

11. **QUESTION:** As noted in the documentation, all questions need to be submitted by E Mail on or before June 29, 2020. We hope you can answer earlier than the June 29, 2020 question deadline. Waiting for answers could pose a problem being ready for bidding the project on July 8, 2020.

RESPONSE: The questions in this addendum are being responded to prior to the June 29th deadline to allow contractors time to review and provide any follow-up questions necessary by June 29th.

12. **QUESTION:** Can you provide an engineering estimate for this project for each Contract: GC, EC, HVAC and Plumbing .

RESPONSE:

G = \$15 - \$20 Million; E = \$5 - \$8 Million; H = \$0.5 Million - \$1.0 Million; P = 0.25 - 1.0 Million.

13. **QUESTION:** As discussed at the pre-bid meeting on June 11, 2020, can you e mail us the power point presentation slides as presented at the pre-bid meeting. These slides provided a lot of information as to the scope of work required to be performed by each of the (4) Separate General Contractors GC, EC, HVAC and PC.

RESPONSE: Available upon request from Daniel.Petrowski@mbakerintl.com

14. **QUESTION:** Specification Section 01 11 00 paragraph 1.2.A.1.a. This paragraph requires the GC to perform any and all excavation work for the GC, EC, HVAC and the Plumbing Contractors. First question: Does this also include the saw cutting pavement, backfilling, stone bedding, concrete encasement, offsite disposal of excess excavation and resulting sitework restorations? Second question: If this is the case, please provide a separate scope of work of what the GC is required to perform for the other three prime contractors?

RESPONSE: All of these activities are covered under the scope of the general contractor. The scope has been further clarified via this addendum.

15. **QUESTION:** On the plumbing drawings 161 thru 165 there is a note on these drawings that the Plumbing demolition and "oatching" is to be performed by the

General Contractor. Is there a typo and is "oatching" in the note supposed to be patching? Is this plumbing demo required to be performed by the GC? These drawings also show that the existing roof drains and the storm drain piping is to be removed by the GC at the 4-RAS pump stations. Is this plumbing demo required to be removed by the GC? As per Specification section 01 11 00 Paragraph 1.2.A.4.c the removal and replacement of the roof drains is to be performed by the PC. Is the new storm drain Piping to be installed by PC?

RESPONSE: This is a typo. It is meant to be "patching". The demolition of the existing storm drains will be provided by the plumbing contract. The language in these drawings has been revised as such via this addendum. The patching will be provided by the general contractor.

16. **QUESTION:** As per Specification section 01 11 00, paragraph 1.2.A.4.a, the plumbing contractor is to install the potable water main in the central and east/west pipe gallery. Does this also include the furnishing of the materials for the potable water main? Is this the 6" PCW line shown on drawing 930-P-10?

RESPONSE: The plumbing contractor shall furnish and install the 6" PCW (potable water main).

17. **QUESTION:** As noted on the HVAC Drawings 152-155 for the 4-RAS pump stations, the RH-1 roof hydrants are to be furnished by the HVAC Contractor and the ¾" EWH line to feed the roof hydrants are to be provided by the process contractor. As per specification section 01 11 00 paragraph 1.2.A.4.b the installation of the Roof hydrants and the hose racks are to be performed by the PC. Please clarify these items. Also, clarify if the hose racks are to be furnished by PC.

RESPONSE: The roof hydrants and connecting piping shall be provided and installed by the General Contractor, as they will use process water not potable water. They are shown on the H plans for coordination purposes.

18. **QUESTION:** Specification Section 01 11 00 paragraph 1.2.A.1.c. This paragraph requires the GC to perform the demolition of the HVAC Ductwork and Equipment and the removal of the existing 6" Potable Water Line. Is this work required to be performed by the GC?

RESPONSE: Yes.

19. **QUESTION:** Specification Section 01 11 00 paragraph 1.2.A.1.e. This section required the GC to perform any and all cutting, core drilling, patching sealing, penetration repair, and floor repairs at the RAS pump stations, stair buildings, and

pipe galleries concrete, masonry, and roof structures for not only our GC work but also the EC, HVAC Contract and PC. This paragraph places an excessive burden on the GC to establish an independent scope of work required by the GC for each of the other prime contractors. Please clarify this paragraph. This includes cored holes for new piping, sealing holes at removed piping, new holes for HVAC refrigeration, condensate and condensate drain piping, larger wall and roof openings for HVAC units, blocking around existing openings where new HVAC units are smaller than the existing penetrations, holes for new electrical conduits, patching holes for removed conduits, etc.

RESPONSE: This scope is to remain under the GC.

20. **QUESTION:** Are the louvers part of the HVAC contract? Is Specification 08 90 00 part of GC work or is it part on HVAC work. I don't see any new louvers on the HVAC schedules.

RESPONSE: There are no new louvers as a part of this project. The 08 90 00 specification has been removed via this addendum.

21. **QUESTION:** As per the architectural drawings 911-A-10, 912-A-10, 921-A-10 and 922-A-10 See note 5 and note E. Is the owner furnishing the fire extinguishers and the signage for the 4-RAS pump Stations ? Also, if so, is the signage shown in specification section 10 14 23 applicable on this project?

RESPONSE: ALCOSAN will supply the extinguishers, mountings, and extinguisher-specific signage. Other signage in 10 14 23 not specific to extinguishers is still the responsibility the contractor.

22. **QUESTION:** Please verify if the identification devices included in specification section 10 14 00 associated with the HVAC, Plumbing and Electrical devices are the responsibility of the GC or each individual prime contractor.

REPNSE: Tagging and identification is the responsibility of the contractor who supplies and installs the device to be tagged.

23. **QUESTION:** The structural drawings show some support steel for the Make-Up Air units on the roof of the 4-RAS Pump Stations but there are no member sizes. Please add member sizes for this steel?

RESPONSE: For steel below HVAC units on roof decking, members will be C6x8.2 as typical. This "typical" covers all proposed members used for framing around all new roof openings. The makeup air units will also have their own support system on

the roof, to be designed by equipment supplier (per Detail E/HD-61), and provided and installed under the H contract.

24. **QUESTION:** Please advise if the removed roof fans and the removed HVAC Air handler units as well as the removed unit heaters from the 4-RAS pump stations and the 3-Stair tower structures are to be loaded and hauled off site by the GC or if Alcosan will retain possession of this equipment and the GC to transport to an Alcosan Storage Area ??

RESPONSE: ALCOSAN does not need to salvage these items. Addendum 1 contains a list of items to be salvaged.

25. **QUESTION:** Reference notes 1 and 2 on drawings 911-S-10, 921-S-10, 912-S-10 and 922-S-10. We are required to replace the exist RAS Pump concrete support piers and the support tripod for the RAS Pump Motors. The notes reference HDR Engineering requirements to engineer new concrete pump supports and new motor support tripods. The drawings do not show and details for these concrete modifications of new support steel. Please provide these additional details so we can include this work in our proposal.

RESPONSE: As noted in the contract drawings, the specific design for the pump and motor supports will be completed after the pump and motor models are selected by the Contractor. This work will be executed as a construction-phase field directive. Contractor shall make reasonable design assumptions to estimate cost for the bid.

26. **QUESTION:** On the By-Pass pumping drawings, the main line connecting tees as well as the piping from the temporary spare By-Pass pumps at each Pump Station are not listed on the HDPE Bill of materials and there are no line sizes listed for these connections. Please provide these line sizes and connection details ??

RESPONSE: Refer to detailed upper plans on sheet G-18 and sections on G-19 for connection to RAS pumps. Exact pipe size to temporary rental pump will depend on size of unit rented by GC.

27. **QUESTION:** On Drawing AS-01 the architectural door schedule for the pump stations, the material for all the doors is specified as FRP and the material for all the frames is specified as SS. Please advise if this is correct. Specification section 08 15 00 titled FRP doors and frames is included in the bid documents. This specification requires FRP frames for FRP doors. Is This correct? If door frames are to be SS as per the door schedule, please provide a specification for SS door Frames.

RESPONSE: The specification is correct, the doors and frames will be FRP. AS-01 has been updated via this addendum.

28. **QUESTION:** Specification sections 07 14 00 and 07 16 16 are included in the bid documents. Please advise where on the project these two specification sections apply?

RESPONSE: Specifications 07 14 00 and 07 16 16 are no longer applicable and have been removed from the specifications via this addendum.

29. **QUESTION:** On Drawings 827-H-10, 836-H-10 and 837-H-10, for the three stair tower structures is the CB-12 Guardian Fall Protection Roof Top Tie Off Anchor required to be provided by the GC or the HVAC contractor? Are these also required on the Roofs of the 4-RAS Pump Stations? Not shown on the Drawings?

RESPONSE: These tie off anchors are required by the general contractor. This has been clarified in the drawings via this addendum. These will not be required on the roofs of the RAS Pump Stations because they have railings.

30. **QUESTION:** Specification 01 11 00, Paragraph 1.10.B excluded the prime plumbing contractor from the list of prime contractors requiring to procure the City of Pittsburgh Building Permit. Is this required by the PC or is this the responsibility of the GC?

RESPONSE: As stated at the Pre-Bid Meeting, permits are the responsibility of the installing prime contractor. The building permit will be procured by the General contractor. The Plumbing contractor will have to obtain the pertinent permit for plumbing through Allegheny County Health Department. This has been added to this specification section via this addendum.

31. **QUESTION:** As per note 2 on drawing 930-P-10, the furnishing and the installation of the 2" NPW in the pipe gallery is to be part of the PC. Is this 2" NPW to be provided by the GC or PC ?? Also is the demo of this existing 2" NPW line to be performed by PC or GC ?? Also as shown in note 4 , is the PC required to tie in the NPW in the 835 Pipe Gallery?

RESPONSE: NPW is considered process piping. Section 01 11 00 states that process piping is installed by the 1728G contractor; potable water installed by the 1728P contractor. This has been clarified on 930-P-10 via this addendum.

32. **QUESTION:** As per the notes on Drawing 911-HDM-10 for the W-1 Pump Station. Left side of Section 1. This is where the note is to remove the existing louver. Same for section 1 on Drawing 921-HDM-10, Section 1 on drawing 912-HDM-10 and Section 1 on Drawing 922-HDM-10. The large louver at each pump station has a note, "Demolish and remove louver, damper and all associated wiring, conduit etc blank off". If the louver is removed then the hole in the wall will have to be filled in with CMU and Brick to match existing. If the louver is to remain then the blank off panel as shown on drawing AD-60 Details I & F can be used to take this louver out of service. Please clarify which patching process we are to use for these louvers. Does the note on the architectural drawings, south elevation of the 4-pump station clarify this question? "Large louvers to remain and seal existing louver on the inside with sheet of painted aluminum to match existing".

RESPONSE: The louver will remain in place and will be blanked off, as seen in Detail F on drawing AD-60. The language on the H drawings has been revised via this addendum to clarify.

33. **QUESTION:** (a) As noted in specification section 01 11 00, the HVAC Equipment pads are to be furnished and installed by the HVAC Contractor and the Electrical equipment pads are to be furnished and installed by the EC. Please clarify for both. (b) Please also clarify if this note applies to the Housekeeping pads for the MCC for the EC and the Heat Pump pads for the HVAC contractor at the 4-RAS Pump Stations. **Bidder Clarification:** Clarify that housekeeping pads and equipment pads are considered the same and both are required to be F & I by the HVAC and electrical contractors. Secondly, we are removing the existing MCC pads in the 4-RAS pump stations and I wanted to clarify if these MCC housekeeping pads are to be F & I by the EC. (c) Also, there are numerous existing conduit thru the existing floors that have to be sealed by the GC under these pads as well as new cored holes thru the floor under these pads for new conduits that have to be drilled by the GC. This is the reason for the question.

RESPONSE: Housekeeping pads and Equipment pads are the same. The 1728E contractor furnishes and installs electrical equipment pads per 01 11 00 (1.2A.2f) and 1728H contractor furnishes and installs HVAC equipment pads per 01 11 00 (1.2A.3d). In accordance with Section 01 73 29 (1.1B.1) the 1728G contractor performs rough and finishing patching and filling holes and openings in existing construction.

34. **a:** Are the existing cable tray supports to be re-used for the new cable tray or will new cable tray supports be required?

b: Is the existing cable tray bare ground conductor be re-used or will the installation of a new ground conductor be required to be installed with the new cable tray?

RESPONSE: Question a: Provide new cable tray supports with installation of new cable tray per 26 05 36. **Question b:** Install new ground conductor along new cable tray per 26 05 36 and 26 05 26.

35. **QUESTION:** Specification Section 01-11-00 2.g Electrical Contract. Installation and maintenance of temporary motor control equipment for bypass pumping and Drawing E-03 details the requirements for a Temporary MCC. Is the E Contract responsible for the Pump Control Panel and Level Sensor detailed in the Temporary MCC arrangement or is the G Contract responsible for the Pump Control Panel and Level Sensor since the G Contract is providing the spare bypass pump?

RESPONSE: This is Electrical Contractor scope.

36. **QUESTION:** Is the E Contract responsible to provide all of the instruments on the RAS Pump Station Upgrades-Instrumentation List that was provided in Addendum # 1 or only the instruments that require a power supply and signal output?

RESPONSE: Yes, in accordance with Section 01 11 00 (1.2A.2c).

F. Clarifications

1. Summary of Work (Section 01 11 00)

- a. Page 01 11 00 – 2, Section 1.2.A.4.d. Sump pump piping is not specifically called out to be replaced in the contract drawings, so the language referring to sump pump piping is being removed from the summary of work. It is possible that during construction, some of the piping will need to be relocated. This work will be performed by the 1728P contractor by field directive.

Attachments:

Specifications:

None

Drawings:

None

**** END OF ADDENDUM NO. 2****