



CITY OF SUFFOLK

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ADDENDUM NO. 3

City of Suffolk
IFB #18072-JS
June 12, 2018

Purchasing Division
442 W. Washington Street, Room 1086
Suffolk, VA 23434-5237
http://apps.suffolkva.us/bids/bid_search_all.jsp

The Invitation for Bid (IFB) for IFB 18072-JS for Water Treatment Plant Improvements Project for the Department of Public Utilities has been amended.

All bid submittals shall conform to this Addendum. Bidders are responsible for familiarizing themselves with the modifications and the effect they may have on the scope of work.

The following changes, additions, and/or deletions are hereby made a part of the Contract Documents for the construction of the G. Robert House, Jr. WTP Surface Water Treatment Facilities Improvement Project, dated May 2018, as fully and completely as if the same were fully set forth therein:

New Bid Opening Date: June 19, 2018 at 3:00 PM

The new proposal opening date supersedes the previous opening date.

A. PART 3, SPECIFICATIONS

1. Section 23 81 00, Unitary Air-Conditioning Equipment
 - a. Supplement, Section 23 81 00.01, Split System DX Indoor Units Schedule, REPLACE this Data Sheet with new Data Sheet, ATTACHED.
 - b. Supplement, Section 23 81 00.03, Split System DX Outdoor Units Schedule, REPLACE this Data Sheet with new Data Sheet, ATTACHED.

Appended hereto and part of Addendum No. 3

- A. Supplement, Section 23 81 00.01, Split System DX Indoor Units Schedule.
- B. Supplement, Section 23 81 00.03, Split System DX Outdoor Units Schedule.

The following questions and answers are incorporated in the bid:

Q1: On drawing 050-M-101 at pump No 1, there is bold description 16" x 10" ECC RDCR Expansion Joint TYP 4, are these to be replaced under this contract?

A1: No. See Addendum No. 1 Question 17.

Q2: On drawing 050-M-101 at pump No 1, there is bold description 10" x 6" ECC RDCR Expansion Joint TYP 4, are these to be replaced under this contract?

A2: No. See Addendum No. 1 Question 17.

Q3: On drawing 050-M-101 at pump No 2, are the 12" 90's to be long radius?

A3: Yes.

Q4: On drawing 050-M-101 at pump No 4, section A, are we to replace the ARV?

A4: No.

Q5: On drawing 050-M-101 pipe supports do not give a detail which type is required?

A5: Provide pipe supports as per Standard Detail 4005-501.

Q6: On drawing 004-YP-102, there are several location that will require tying into an existing line, the drawings don't show using sleeves. An example is the 36" tee at the HSPS#2, without a sleeve you will not be able to fold the tee in, and there are three location with the same situation.

A6: See Section 40 27 00, Process Piping – General. Reference Paragraph 3.01. Provide transition fittings as required to connect existing and new piping.

Q7: There are two specification section in Division 3 Concrete, 03 01 32 Repair of Vertical and Overhead Concrete Surface and 03 01 33 Repair of Horizontal Concrete Surfaces, however the drawing do not indicate were either are to be used.

A7: These two specification sections are referenced in Section 03 30 00, Cast-In-Place Concrete, Paragraph 3.04. The intent is to provide specification requirements for repair of defective areas in new concrete components such as the roof and floor slab of the new Scrubber Room, and the micropile supported concrete slab that supports the new Plate Settler units.

Q8: For specification section 44 42 56.14 Lobe Pumps, what manufactures will be excepted?

A8: See Section 44 42 56.14, Lobe Pumps, Paragraph 2.03.A.6.

Q9: The specified doors with the louvers do not wind shear, positive and negative pressure requirements, please advise.

A9: No wind pressure resistance is required for interior doors. See Addendum No. 2 Question 12.

Q10: Detail D on drawing 040-S-500 has an identification arrow however what the arrow is point to or for is missing.

A10: The missing call out shall be "1-1/2" non-shrink grout".

Q11: Please clarify note 2 on drawing 04-S-101, based on the existing condition and the detail of the new work on drawing 040-S-500 there is no reason to remove the existing support so what needs to be done for note #2.

A11: See Addendum No. 2 Question 5.

Q12: Would like to know if Allen Bradley would be an acceptable manufacturer for the Motor Control Center for this project?

A12: Allen Bradley is an acceptable manufacturer for the Motor Control Centers (Section 26 24 19, Low-Voltage Motor Control). A substitution request will not be required.

Q13: 4" W1 PIPE : Drawing 030-M-101, is showing a 4 " W1 line on the north side of the filter pipe gallery. The pipe is just to the left of the section symbol – G / 030-M-204. We do not see that the line extends any further than what is shown. We assume that the existing concrete wall will be core drilled and link seal sets will be used around the new pipe. We will list a 4 " blind flange to be installed on the end of the pipe. Please review and clarify the extent of this piping into the filter gallery.

A13: See Sheet 084, Drawing No. 030-BS-101.

Q14: RW PIPE CONNECTOR: Drawing 030-M-102 is showing a new section of 18 " RW pipe with a service saddle. We note the callout for an 18" restrained FCA, flange coupling adapter. The coupling is drawing as if it is to be a sleeve type coupling, not a flanged coupling adapter. This will make a difference to the new section of pipe to be provided for the service saddle. The pipe may have to have two flanges. This will make a difference in the cost of the pipe. Please review and clarify which type of coupling is to be provided.

A14: Provide a restrained flange adapter per Section 40 27 01, Process Piping and Specialties, Paragraph 2.03.E. See Addendum No. 1 Question 21.

Q15: BURIED YARD VALVES: Can the 20" and 36" buried yard valves be restrained with wedge type retaining glands, such as a Megalug?

A15: See Section 40 27 00, Process Piping – General, paragraph 3.09.C and Supplement Data Sheet 40 27 00.01, Cement-Mortar-Lined Ductile Iron Pipe and Fittings.

- Q16: RD – ROOF DRAIN PIPE: The pipe schedule in section 40 27 00, is indicating that the RD is to be CISP per section 22 10 01.03. Looking in the Division 22 00 00, we do not find this section. The plumbing piping spec refers you to look in section 40 27 00. This section does not have CISP. Please review and clarify the RD piping materials.
- A16: See Section 22 10 01, Plumbing Piping and Accessories, Supplement Data Sheet 22 10 01.03, Cast Iron Soil Pipe and Fittings.
- Q17: SD – STORM DRAIN PIPE: The pipe schedule in section 40 27 00, is indicating that the SD is to be PVC per section 22 10 01.12. Looking in the Division 22 00 00, we do not find this section. The plumbing piping spec refers you to look in section 40 27 00. This section does have PVC but it is schedule 80 PVC or CPVC. We are not thinking that this is what you intend to use for storm drain pipe. Please review and clarify the SD piping materials.
- A17: See Addendum No. 2 Question 8.
- Q18: Air Conditioning/Handling Units ACU/ACCU-40-1 and AHU/ACCU-70-104 are not listed in the Data Sheets contained in Specification Section 23 81 00. Additionally, these data sheets contain air handling unit AHU/ACCU-1, but no units with this Tag # are listed on the Drawings. Please revised provide air conditioning/handling unit Data Sheets via addendum.
- A18: See revised Supplement Sections 23 81 00.01, Split System DX Indoor Units Schedule, and 23 81 00.03, Split System DX Outdoor Units Schedule, included with Addendum No. 3.
- Q19: Reference Sheets 63, 66, and 85 – A sink is shown on sheet 63 and in elevations on sheet 66 in the Auxiliary Workstation room. Sheet 85 shows water and waste lines serving this fixture. However, no fixture tag or identifier is provided. Please advise what type of fixture shall be provided.
- A19: See Fixture S-1 per Section 22 40 00, Plumbing Fixtures, Paragraph 2.03.B.1. Sink shall be similar except 11 inches by 15 inches by 9 inches deep.
- Q20: Sheet 113 – This sheet appears to identify a new sink and faucet (note 1) in new casework in the control room/operator's lab. However, no fixture tag or identifier is provided. Please advise what type of fixture shall be provided.
- A20: See Fixture S-1 per Section 22 40 00, Plumbing Fixtures, Paragraph 2.03.B.1. Sink shall be similar except 15 inches by 24 inches by 9 inches deep. Provide ten (10) new single handle faucets as required for the sample lines.
- Q21: Sheets 114 and 115 – Equipment on these pages is tagged ACU-40-01 and ACCU-40-01. No equipment schedule appears to be provided for this equipment. Please provide technical/performance requirements for this system.

A21: See revised Supplement Sections 23 81 00.01, Split System DX Indoor Units Schedule, and 23 81 00.03, Split System DX Outdoor Units Schedule, included with Addendum No. 3.

Q22: Sheet 123 – Are the new wall mounted exhaust fans and motor operated dampers to be mounted in existing holes or shall new holes to be cut for this equipment? Is any equipment required to be demolished for this work? There does not appear to be any related demolition in these rooms.

A22: New openings shall be made for the new wall mounted exhaust fans, motor operated dampers, and duct as required. No equipment demolition is required.

Q23: Reference Sheets 136 and 137 – The new bathroom is shown with no fixture tags or identifiers provided for the lavatory and water closet. The only sink fixture called out in the specifications is counter mounted and these elevations show either a wall mount or standing utility sink. Please advise what type of fixture shall be provided.

A23: See Section 22 40 00, Plumbing Fixtures. Sink shall be MS-1 type fixture as per Paragraph 2.03.B.2 and water closet shall be WC-1 type fixture as per Paragraph 2.03.B.3.

Q24: Sheet 137 – This sheet includes mechanical equipment tagged as “AHU-70-104” and “ACCU-70-104”. These tags do not match any equipment schedule provided in the specifications. Which piece of scheduled equipment should be installed in this room?

A24: See revised Supplement Sections 23 81 00.01, Split System DX Indoor Units Schedule, and 23 81 00.03, Split System DX Outdoor Units Schedule, included with Addendum No. 3.

Q25: Our insurance company is asking for the longitude/latitude of the project due to flood zones.

A25: See Benchmark information on Sheet 25, Drawing No. 003-C-101.

Q26: On drawing 045-M-101 typical Pump Detail, there are items that are bold which indicates it is new work, example 2” V330, is all the bold work to be new items?

A26: Items with call out in bold text but where item is screened are not new.

Q27: What is the size of each of the detail for concrete repair per drawing 040-S-500, 040-S-501?

A27: Reference scale provided with Detail. Dimensions are to be field verified as noted and as per General Sheet Notes on Sheet 111, Drawing No. 040-S-500.

Q28: Drawing 004-YD101, at basin #1 it states “ Remove exposed abandoned sample lines in there entirely” RFIS below.

- o Is the underground portion to be removed or just abandoned in place? **Removed as shown.**
- o There is additional exposed chemical line on the side of basin# 1 are they to be removed? **The abandoned sample lines are to be removed.**
- o The chemical lines go through the cable tray and enter the administration build is the section of piping to be removed? **The abandoned sample lines are to be removed where exposed.**
- o Is there any piping that needs to be removed above the ceiling in the administration building? **No.**

A28: See above.

Q29: What is the material for the new hose detail on drawing 040-S-501?

A29: New water lines (W2) shall be copper.

Q30: What size valve will be required for the water line extension to the new hose rack drawing 040-S-501?

A30: Provide 3/4-inch Type V235.

Q31: Detail 5 on drawing 040-S-501, what is the required height for the concrete encasement?

A31: 8 inches.

Q32: What size valve will be required for the water line extension to the new hose rack drawing 040-S-501?

A32: Provide 3/4-inch Type V235.

Q33: At the HSPS what type of joint is on the 36"-90 that needs to be replaced with a 36" tee?

A33: It is believed to be restrained mechanical joint.

ATTACHMENTS (2 PAGES)

END OF QUESTIONS

Contract Officer: _____

Jay Smigielski, Purchasing Agent

All other specifications, provisions, terms and conditions are unchanged.

Bidder shall acknowledge receipt of addendum on Bid Form. Failure to do so may result in disqualification of bid.

If you have any questions regarding this Addendum, please contact Jay Smigielski, Purchasing Agent at jsmigielski@suffolkva.us

SURFACE WATER IMPROVEMENTS

SPLIT SYSTEM DX INDOOR UNITS				23 81 00.01			
SYMBOL				ACU-30-1	AHU-4 AHU-70-104	ACU-40-1	
SERVING				ELECTRICAL ROOM	OFFICE/STORAGE	CONTROL ROOM	
FAN DATA	SUPPLY AIR		CFM	800	1050	<u>800</u>	
	OUTSIDE AIR		CFM	-	150	-	
	EXTERNAL STATIC PRESS.		IN W.G.	0.2	0.75	<u>0.2</u>	
DX COOLING DATA	NET CAPACITY		BTU/HR	42000	36,800	<u>42000</u>	
	NET SENS.		BTU/HR		28,500		
	ENTERING AIR TEMP.	DEG. F	DB	80	80	<u>80</u>	
		DEG. F	WB	67	67	<u>67</u>	
	AMBIENT TEMP.		DEG. F	115	115	<u>115</u>	
DX HEATING DATA	NET TOTAL		BTU/HR	45000	32400	<u>45000</u>	
	ENTERING AIR TEMP.		DEG. F	70	70	<u>70</u>	
	AMBIENT TEMP.		DEG. F	42	47	<u>42</u>	
ELECTRIC HEATING DATA	NET CAPACITY		KW	-	8	-	
	ENTERING AIR TEMP.		DEG. F	-	70	-	
	STEPS			-	85	-	
	VOLT			-	480	-	
	PH			-	3	-	
FAN MOTOR DATA	HP			-		-	
	VOLT			208/230	208/230	<u>208/230</u>	
	PH			1	1	<u>1</u>	
ELECTRICAL DATA	# CONN.			1	1	<u>1</u>	
	MCA			-	18	-	
	FUSE			-	30	-	
	VOLT			208/230	208/230	<u>208/230</u>	
	PH			1	1	<u>1</u>	
DIMENSIONS	LENGTH	INCHES		38	58	<u>38</u>	
	WIDTH	INCHES		38	23	<u>38</u>	
	HEIGHT	INCHES		12	23	<u>12</u>	
	MAXIMUM WEIGHT		LBS	55	153	<u>55</u>	
MANUFACTURER				MITSUBISHI	TRANE	<u>MITSUBISHI</u>	
MODEL NO.				PLA-A42BA	GAM5A0A42	<u>PLA-A42BA</u>	
APPLICABLE REMARKS:				A THRU D	A, B, D, E	<u>A THRU D</u>	
REMARKS: A: HANGING BRACKETS B: UNIT MOUNTED DISCONNECT C: FACTORY INSTALLED CONDESATE PUMP D: 7-DAY PROGRAMABLE TOUCH SCREEN THERMOSTAT E: ELECTRIC HEATER NEED TO BE POWERED SEPERATELY FROM AHU							

SURFACE WATER IMPROVEMENTS

SPLIT-SYSTEM DX OUTDOOR UNITS			23 81 00.03		
SYMBOL			ACCU-30-1	ACCU-4 ACCU-70-104	ACCU-40-1
SERVING			ACU-30-1	AHU-70-104	ACU-40-1
DX COOLING DATA	CAPACITY	BTU/HR	42,000	36,800	<u>42,000</u>
	AMBIENT TEMP.	DEG. F	115	115	<u>115</u>
	SEER	@ AHRI	-	-	-
DX HEATING DATA	CAPACITY	BTU/HR	45000	32500	<u>45000</u>
	COND. TEMP.	DEG. F	47	47	<u>47</u>
	COP	@ AHRI	-	-	-
OUTDOOR FAN DATA	NO.		2	1	<u>2</u>
	H.P. (EA.)		-	-	-
	VOLT		208/230	208/230	<u>208/230</u>
	PH		1	1	<u>1</u>
	CFM (TOTAL)		-	-	-
COMPRESSOR DATA	NO.		-	-	-
	STEPS		-	-	-
	FLA (EA.)		-	-	-
	LRA (EA.)		-	-	-
	VOLT		208/230	208/230	<u>208/230</u>
	PH		1	1	<u>1</u>
ELECTRICAL DATA	# CONN.		1	1	<u>1</u>
	MCA		26	18	<u>26</u>
	MOCP (FUSE)		-	-	-
	VOLT		208/230	208/230	<u>208/230</u>
	PH		1	1	<u>1</u>
DIMENSIONS	LENGTH	INCHES	38	38	<u>38</u>
	WIDTH	INCHES	15	34	<u>15</u>
	HEIGHT	INCHES	53	38	<u>53</u>
	MAXIMUM WEIGHT	LBS	260	199	<u>260</u>
MANUFACTURER			MITSUBISHI	TRANE	<u>MITSUBISHI</u>
MODEL NO.			PUZ-A42NHA3	4TWR5036	<u>PUZ-A42NHA3</u>
APPLICABLE REMARKS:			B THRU N	B THRU L	<u>B THRU N</u>
REMARKS:					
A: CRANKCASE HEATER B: COMPRESSOR CYCLE DELAY C: 5-YEAR COMPRESSOR WARRANTY FOR EACH COMPRESSOR D: DIP APPLIED ANTI-CORROSION COATING ON CONDENSER COIL (NOT SPRAY APPLIED) E: CABINET CORROSION PROTECTION F: FACTORY INSTALLED DISCONNECT G: HOT GAS BYPASS H: LIQUID LINE FILTER DRIER I: FACTORY INSTALLED ACCUMULATOR J: LOW-AMBIENT COOLING KIT K: LIQUID SOLENOID VALVE L: COMPRESSOR START ASSIST M: WIND BAFFLE N: MCA FOR BOTH INDOOR AND OUTDOOR					