



CITY OF TAMPA

Pam Iorio, Mayor

CONTRACT ADMINISTRATION DEPARTMENT

David L. Vaughn, AIA, Director

ADDENDUM NO. 4

DATE: MAY 14, 2008

Project: 08-C-00040; INTERBAY REPUMP STATION IMPROVEMENTS

Bidders on the above referenced project are hereby notified that the following addendum is made to the Contract Documents. BIDS TO BE SUBMITTED SHALL CONFORM TO THIS NOTICE.

- Item 1: Section 16050 1.01B(2) as modified below requires the Contractor to coordinate all electric power work with TECO. No allowance will be provided to upgrade TECO service if required as OWNER will pay TECO charges.
- Item 2: Section 16050 1.01A(10) replace the first "to" with "no."
- Item 3: Section 16050 1.01B(2) is hereby modified to read "Contractor shall coordinate all electric power work with TECO."
- Item 4: On Drawing No. E-3 replace "Panel Name: __LG__" with "Panel Name: __L1__."
- Item 5: On Drawing No. M-2, replace "(2)" with "(4)" Differential Pressure Transmitters for Venturis.
- Item 6: On Drawing No. E-4 near "Pressure Transducers," replace "TYP of 5" with "TYP of 7."
- Item 7: For installations requiring two parallel transmitters to be installed, impulse lines from the venturi to the vent does not have to be duplicated. Install individual impulse lines from the trunk impulse line to each transmitter.
- Item 8: The existing tank level pressure transmitter and associated piping is to be relocated to the Southwest corner of the pumping room.
- Item 9: Add Section 15800 1.02(D): "The HVAC units shall be as manufactured by Trane, Carrier or equal.
- Item 10: Replace "Type A 70W" with "Type A 68W" on Drawing No. E-6. Fixture types are consistent between sheets.

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- Item 11: Concrete pads at doorways and throughout generator area shall be minimum 4 inch thick with 6X6-W1.4 WWR. Additionally, provide equipment slabs as shown.
- Item 12: Add attached Section 13401 Supplement Nos. 2, 3 and 5. The HMI is existing at DTWTP and will only require relocation communication line using the existing service. No additional HMI software or Hardware is to be provided. Only those selector switches detailed in the contract documents are required on the panel.
- Item 13: Fittings on Pump 1 and 2 discharge shown in dark ink are new; screened ink is existing.
- Item 14: New and replacement fencing shall match existing fence type, size and materials and shall be as manufactured by Anchor Fence, Cyclone Fence or equal.
- Item 15: Door schedule on S-5 correctly calls for STL doors
- Item 16: Chlorine and pH analyzers are existing per I drawings, and shall be relocated as shown on M-2.
- Item 17: Note the following items are to be furnished, installed and tested by the contractor. These items are indicated in supplement – 3 and do not appear on the indicated drawing.

Tag	Sheet	Component Code	Component Descriptor	Options
ZS-6-1 ZS-6-2 ZS-6-3 ZS-6-4 ZS-6-5 ZS-6-6	Add to I-4	N/A	Check valve swing arm proximity switches - Switches to mount and detect open/close position of the check valve weighted swing arm. Switch make and model to match manufacturers recommendation for for installation of this type.	Switch to make on lifted arm indicating positive flow.

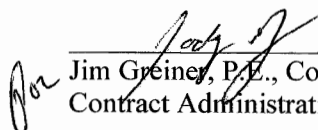
Note the following items are to be furnished, installed and tested by the contractor. These items are indicated in supplement – 5 and do not appear on the indicated drawing.

PLC/RIO	TAG NO.	DESCRIPTION	DI	DO	AI	AO	DWG NO.
PLC-1	ZS-6-1	Pump No. 1 Check Valve Open/Close Status	1				Added to I-4
PLC-1	ZS-6-2	Pump No. 2 Check Valve Open/Close Status	1				Added to I-4

This addendum shall be included in and attached to the inside cover of the Contract Documents by and upon which bids are submitted.

All other provisions of the Contract Documents and Specifications not in conflict with this Addendum shall remain in full force and effect.

For questions concerning the above referenced project, please fax to 813/274-8080.


 Jim Greiner, P.E., Contract Manager
 Contract Administration Department

CONTROL PANEL SCHEDULE

Panel Tag Number (Description)	Quantity	Enclosure, Rating, & Materials	Style	Nominal Dimensions
PLC-1	1	NEMA 12, 316 SS	Free Standing	6 ft H x 2 ft D x 4 ft W

CITY OF TAMPA

Interbay Pump Station Instrument List

Tag	Sheet	Component Code	Component Descriptor	Options	Power	Element Detail	Xmnt Detail
ZS-6-1 ZS-6-2 ZS-6-3 ZS-6-4 ZS-6-5 ZS-6-6	Add to I-3	N/A	Check valve swing arm proximity switches - Switches to mount and detect open/close position of the check valve by detection of position of check valve weighted swing arm. Switches are to match valve manufacturers recommendation for installation and duty of this type. Total Qty is 6 switches.	Switch to make on lifted arm indicating positive flow.	N/A	N/A	N/A
PDIT-1-1A	I-3	P3	Differential Pressure Transmitter, Low Range	Range: Required range to match flow for venturi. Estimated range to be 0-1,200 GPM. To be verified by contractor upon completion of venturi calculations Mount: Wall Mount, In pump building	Loop	N/A	13207 13303 13305AG
PDIT-1-1B	I-3	P3	Differential Pressure Transmitter, High Range	Range: Estimated at 0-547 inWC. To be verified by contractor upon completion of venturi calculations Mount: Wall Mount, In pump building Process Pressure: 55-60 PSIG Process Flow Range: 250-6,000 GPM Process Line Size: Nominal 20", Verify on mechanical drawings	Loop	N/A	13207 13303 13305AG
FE-1-1	I-3	F9	Venturi Flow Element		N/A		N/A
PDIT-2-1A	I-3	P3	Differential Pressure Transmitter, Low Range	Range: Required range to match flow for venturi. Estimated range to be 0-1,200 GPM. To be verified by contractor upon completion of venturi calculations Mount: Wall Mount, In pump building	Loop	N/A	13207 13303 13305AG
PDIT-2-1B	I-3	P3	Differential Pressure Transmitter, High Range	Range: Estimated at 0-547 inWC. To be verified by contractor upon completion of venturi calculations Mount: Wall Mount, In pump building Process Pressure: 55-60 PSIG Process Flow Range: 250-6,000 GPM Process Line Size: Nominal 20", Verify on mechanical drawings	Loop	N/A	13207 13303 13305AG
FE-2-1	I-3	F9	Venturi Flow Element		N/A		N/A
SY-3-1	I-3	F11	Altitude Valve Motor Operated Backpressure Device		120 VAC	Refer to Manufacturer's drawings	N/A
PSL-6-5	I-4	P8	Pressure switch, pump run status	Set Point: Rising	N/A	13304A	N/A
PSL-6-6	I-4	P8	Pressure switch, pump run status	Set Point: Rising	N/A	13304A	N/A
PIT-5-1	I-4	P9	Distribution Supply Pressure	Range: 0-150 PSIG Mount:	24 VDC	13303	13303 13305AG
PIT-5-2	I-4	P9	Distribution Discharge Pressure	Range: 0-150 PSIG Mount: Wall Mount	24 VDC	13303	13303 13305AG
LSH-1-1	I-3	L8	Venturi Vault Flood Switch		NA	Refer to Manufacturer's Recommendation	N/A

Tag	Sheet	Component Code	Component Descriptor	Options	Power	Element Detail Refer to Manufacturer's Recommendation	Xmtr Detail
LSH-1-2	I-3	L8	Venturi Vault Flood Switch		NA	Refer to Manufacturer's Recommendation	N/A
TT-8-1	I-4	T4A	Instrument room temperature transmitter		Loop	Refer to Manufacturer's Recommendation	N/A
PLC Equipment List							
Name	Description	Qty.	Manufacturer	Model			
PLC-1	SLC 5/05 CONTROLLER , 32K MEMORY, ETHERNET/IP PROCESSOR	1	Allen Bradley	1747-L552			
PLC-1	POWER SUPPLY - RACK MOUNT 120/240V AC 10 AMPS, 70 WATT MAX.	1	Allen Bradley	1746-P4			
PLC-1	13-SLOT CHASSIS- MODULAR HARDWARE STYLE DC INPUT	1	Allen Bradley	1746-A13			
PLC-1	MODULE FOR PROGRAMMA BLE CONTROLLER (16) INPUT - SOURCE 24V DC	4	Allen Bradley	1771-IV16			
PLC-1	RELAY OUTPUT MODULE FOR PROGRAMMA BLE CONTROLLER (16) OUTPUT 5-250V AC, 5- 125V DC	1	Allen Bradley	1771-OW16			

Tag	Sheet	Component Code	Component Descriptor	Options	Power	Element Detail	Xmitr Detail
PLC-1	(8) ANALOG INPUT FOR PROGRAMMABLE CONTROLLER +/- 20 MA, +/- 10V DC (4) ANALOG CURRENT OUTPUT FOR PROGRAMMABLE CONTROLLER 0-20 MA	3	Allen Bradley	1746-NI8			
PLC-1	ProSoft SLC MODBUS ASCII/RTU module	3	Allen Bradley	1746-NO4I			
PLC-1		1	ProSoft	MVI46-MCM			

CITY OF TAMPA
Interbay Pump Station I/O List

PLC/RIO	TAG NO.	DESCRIPTION	DI	DO	AI	AO	DWG NO.
PLC-1	ZS-6-1	Pump No. 1 Check Valve Open/Close Status	1				Added to I-4
PLC-1	ZS-6-2	Pump No. 2 Check Valve Open/Close Status	1				Added to I-4
PLC-1	ZS-6-3	Pump No. 3 Pump Check Valve Open/Close Status	1				Added to I-4
PLC-1	ZS-6-4	Pump No. 4 Pump Check Valve Open/Close Status	1				Added to I-4
PLC-1	ZS-6-5	Pump No. 5 Pump Check Valve Open/Close Status	1				Added to I-4
PLC-1	ZS-6-6	Pump No. 6 Pump Check Valve Open/Close Status	1				Added to I-4
PLC-1	LSH-1-1	Venturi Vault Flood Alarm	1				I-3
PLC-1	LSH-1-2	Venturi Vault Flood Alarm	1				I-3
PLC-1	EY-1-1	Venturi vault #1 pump run status	1				I-3
PLC-1	EY-1-2	Venturi vault #2 pump run status	1				I-3
PLC-1	EY-5-1	GENERATOR RUNNING	1				I-3
PLC-1	YA-5-1[OC]	GENERATOR ENGINE OVERCRANK	1				I-3
PLC-1	YA-5-1[OS]	GENERATOR ENGINE OVERSPEED	1				I-3
PLC-1	PSL-5-1	GENERATOR ENGINE LOW OIL PRESSURE	1				I-3
PLC-1	TSH-5-1	GENERATOR ENGINE HIGH TEMP.	1				I-3
PLC-1	LSL-5-1	GENERATOR day Tank Fuel Low	1				I-3
PLC-1	HS-5-1	GENERATOR Not In Automatic	1				I-3
PLC-1	YI-5-1[NORMAL]	GENERATOR Transfer switch in Normal	1				I-3
PLC-1	YI-5-1[EMERGENCY]	GENERATOR Transfer switch in Emergency	1				I-3
PLC-1	KY-3-1	OPEN MAIN FILL VALVE Command	1				I-3
PLC-1	KZ-5-1	GENERATOR RUN Command	1				I-3
PLC-1	FIT-1-1A	Discharge Flow #1, Low Range			1		I-3
PLC-1	FIT-1-1B	Discharge Flow #1, High Range			1		I-3
PLC-1	FIT-2-1	Discharge Flow #2, Low Range			1		I-3
PLC-1	FIT-2-1	Discharge Flow #2, High Range			1		I-3
PLC-1	LI-4-1	LEVEL 4 - 32 FEET 0 - 12.12 PSI = 4 - 20 ma			1		I-3
PLC-1	ZI-3-1	PILOT VALVE POSITION FEEDBACK			1		I-3
PLC-1	ZY-3-1	PILOT VALVE POSITION OUTPUT				1	I-3
PLC-1	LSH-5-1	Flood Alarm	1				I-4
PLC-1	PSL-6-1	PUMP #1 Run status	1				I-4
PLC-1	PSL-6-2	PUMP #2 Run status	1				I-4
PLC-1	PSL-6-3	PUMP #3 Run status	1				I-4
PLC-1	PSL-6-4	PUMP #4 Run status	1				I-4
PLC-1	PSL-6-5	PUMP #5 Run status	1				I-4
PLC-1	PSL-6-6	PUMP #6 Run status	1				I-4
PLC-1	YA-6-1[Alarm]	VFD #1 in alarm	1				I-4
PLC-1	YA-6-2[Alarm]	VFD #2 in alarm	1				I-4
PLC-1	YA-6-3[Alarm]	VFD #3 in alarm	1				I-4
PLC-1	YA-6-4[Alarm]	VFD #4 in alarm	1				I-4
PLC-1	YA-6-5[Alarm]	VFD #5 in alarm	1				I-4

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PLC/RIO	TAG NO.	DESCRIPTION	DI	DO	AI	AO	DWG NO.
PLC-1	YA-6-6[Alarm]	VFD #6 in alarm	1				I-4
PLC-1	HS-6-1	VFD #1 in Remote	1				I-4
PLC-1	HS-6-2	VFD #2 in Remote	1				I-4
PLC-1	HS-6-3	VFD #3 in Remote	1				I-4
PLC-1	HS-6-4	VFD #4 in Remote	1				I-4
PLC-1	HS-6-5	VFD #5 in Remote	1				I-4
PLC-1	HS-6-6	VFD #6 in Remote	1				I-4
PLC-1	YA-6-1[Fault]	VFD #1 fault	1				I-4
PLC-1	YA-6-2[Fault]	VFD #2 fault	1				I-4
PLC-1	YA-6-3[Fault]	VFD #3 fault	1				I-4
PLC-1	YA-6-4[Fault]	VFD #4 fault	1				I-4
PLC-1	YA-6-5[Fault]	VFD #5 fault	1				I-4
PLC-1	YA-6-6[Fault]	VFD #6 fault	1				I-4
PLC-1		UPS LOW BATTERY	1				I-4
PLC-1		UPS AC FAIL	1				I-4
PLC-1		SECURITY BUILDING ALARM	1				I-4
PLC-1	KZ-6-1	START PUMP # 1 Command		1			I-4
PLC-1	KZ-6-2	START PUMP # 2 Command		1			I-4
PLC-1	KZ-6-3	START PUMP # 3 Command		1			I-4
PLC-1	KZ-6-4	START PUMP # 4 Command		1			I-4
PLC-1	KZ-6-5	START PUMP # 5 Command		1			I-4
PLC-1	KZ-6-6	START PUMP # 6 Command		1			I-4
PLC-1	PIT-5-1	Supply Pressure			1		I-4
PLC-1	PIT-5-2	Discharge Pressure			1		I-4
PLC-1	AIT-8-1[CL2]	W&T CL ² 0-10 PPM 4-20 ma			1		I-4
PLC-1	AIT-8-1[pH]	W&T pH 0-14 4-20 ma			1		I-4
PLC-1	SI-6-1	PUMP #1 VFD SPEED FEEDBACK			1		I-4
PLC-1	SI-6-2	PUMP #2 VFD SPEED FEEDBACK			1		I-4
PLC-1	SI-6-3	PUMP #3 VFD SPEED FEEDBACK			1		I-4
PLC-1	SI-6-4	PUMP #4 VFD SPEED FEEDBACK			1		I-4
PLC-1	SI-6-5	PUMP #5 VFD SPEED FEEDBACK			1		I-4
PLC-1	SI-6-6	PUMP #6 VFD SPEED FEEDBACK			1		I-4
PLC-1	TT-8-1	ELECTRICAL ROOM TEMPERATURE			1		I-4
PLC-1	SY-6-1	PUMP #1 VFD SPEED OUTPUT				1	I-4
PLC-1	SY-6-2	PUMP #2 VFD SPEED OUTPUT				1	I-4
PLC-1	SY-6-3	PUMP #3 VFD SPEED OUTPUT				1	I-4
PLC-1	SY-6-4	PUMP #4 VFD SPEED OUTPUT				1	I-4
PLC-1	SY-6-5	PUMP #5 VFD SPEED OUTPUT				1	I-4
PLC-1	SY-6-6	PUMP #6 VFD SPEED OUTPUT				1	I-4

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Interbay Pump Station I/O List

PLC/RIO	TAG NO.	DESCRIPTION	DI	DO	AI	AO	DWG NO.
		TOTAL	41	8	17	7	
		ADD 25%	10	2	4	2	
			51	10	21	9	