FLORIDA DEPARTMENT OF TRANSPORTATION

ADDENDUM NO. 4 DATE: September 11, 2018

RE: BID #: ITB-DOT-18/19-4004EY

BID TITLE: West Palm Beach Operations Center Air Conditioning System Renovation

OPENING DATE: September 20, 2018.

Notice is hereby given of the following changes to, and answers to the questions on the above-referenced BID:

Changes:

1. The **Invitation to Bid,** Page 5 of 16, Introduction Section, 2) Timeline, the dates for **"Bids Due (On or before), Public Opening and Posting of Intended Decision/Award" are changed as followed:**

ACTION / LOCATION	DATE	LOCAL TIME
BIDS DUE (ON OR BEFORE) - 3400 West Commercial Boulevard Fort Lauderdale, Florida 33309	**09-20-2018**	**02:00 PM**
PUBLIC OPENING - 3400 West Commercial Boulevard Fort Lauderdale, Florida 33309	**09-20-2018**	**02:30 PM**
POSTING OF INTENDED DECISION/AWARD -	**09-28-2018**	**04:00 PM**

Questions:

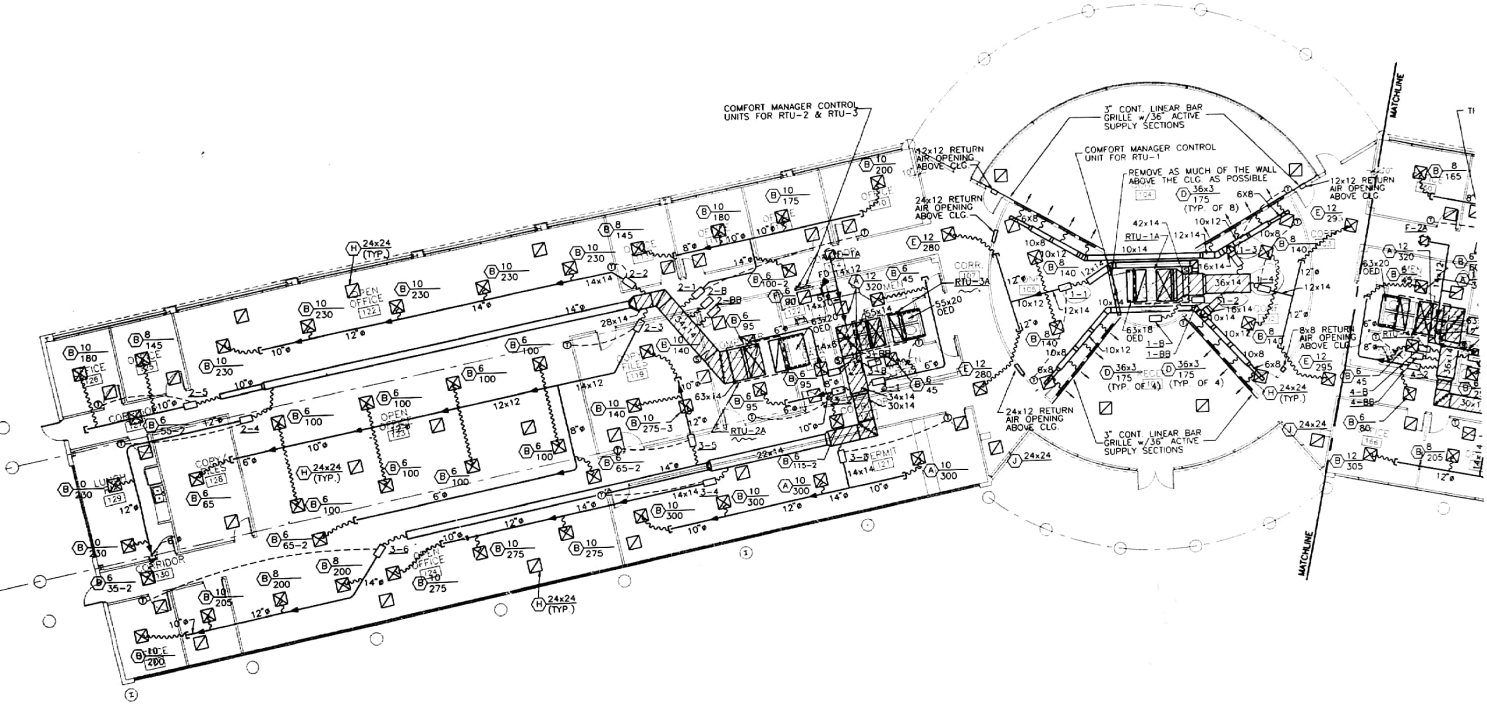
#	Question	Answer
1.	Will any blueprints or diagrams be provided in order to obtain the correct number and sizes of individual dampers and motors, to also include actuators and damper blades?	See attached.
2.	Would you be able to provide the existing mechanical and electrical drawings for facility? (Need these to confirm VAV Quantity and price for controls upgrade.)	See attached.

Bidders must acknowledge receipt of this Addendum by completing and returning to the Procurement Office, by no later than the time and date of the bid/proposal opening. **Failure to do so may subject the bidder/proposer to disqualification.**

__Emmarie Yavneh__
Procurement Agent

_____Bidder/Proposer
_____ Address
_____Submitted by (Signature)

Failure to file a protest within the time prescribed in Section 120.57(3), Florida Statutes, or failure to post the bond or other security required by law within the time allowed for filing a bond shall constitute a waiver of proceedings under Chapter 120, Florida Statutes.

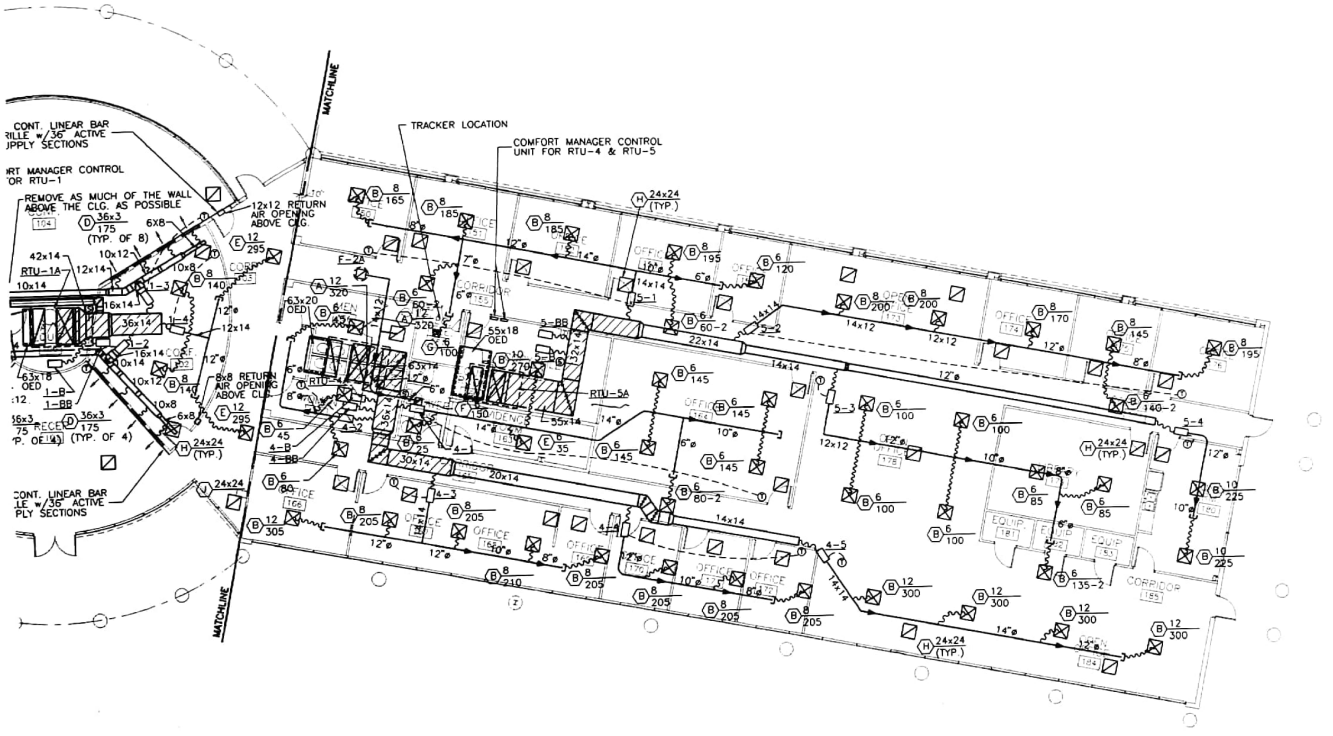


PARTIAL HVAC PLAN

SCALE: 1/8" = 1'-0"

NOTES

1. ROUTE CONDENSATE DRAIN LINES FROM EACH RTU TO NEAREST ROOF DRAIN.
2. SEE DETAIL 9/408 FOR SUPPORT OF ALL HANGING LOADS.
3. ALL TEMPERATURE SENSORS LOCATED IN SYSTEMS FURNITURE AREAS TO BE MOUNTED AT 5'-2" A.F.F. ALL OTHER AREAS TO HAVE SENSORS AT 4'-0" A.F.F. AND COORDINATED WITH ADJACENT LIGHT SWITCHES.
4. HATCHING ON SUPPLY DUCT INDICATES DUCT IS LINED AND WRAPPED.



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LEGEND

A	AIR COMPRESSOR
AC	AIR CONDITIONER
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
F-1	FAN DESIGNATION
HU	HEATING UNIT
OED	OPEN-ENDED DUCT
RTU	ROOFTOP UNIT
SF	SUPPLY FAN
UH	UNIT HEATER
V	VENTILATOR
	DUCT SECTION POSITIVE PRESSURE
	DUCT SECTION NEGATIVE PRESSURE
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN OR EXHAUST DUCT UP
	RETURN OR EXHAUST DUCT DOWN
	FLEXIBLE DUCT WITH DIFFUSER
	SUPPLY DIFFUSER OR REGISTER
	RETURN OR EXHAUST REGISTER OR GRILLE
T	THERMOSTAT
S	SMOKE DETECTOR
	SUPPLY AIR
	RETURN OR EXHAUST AIR INLET
	MANUAL VOLUME DAMPER
-C-	CONDENSATE LINE
	LOUVER
S.D.	SPLITTER DAMPER
FD	FIRE DAMPER
	DUCT TRANSITION
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN

ROOFTOP UNIT SCHEDULE

MARK	AREA SERVED	FAN CFM SA	FAN CFM OA	FAN HP	FAN ESP	CAPACITIES MBH SENS	CAPACITIES MBH TOTAL	ENT AIR F DB	ENT AIR F WB	LVG AIR F DB	LVG AIR F WB	HEAT TYPE	HEAT KW	COMPRESSOR #	COMPRESSOR HP	V-PH	MANUFACTURER	MODEL NO
RTU-1A	CONFERENCE	4510	1110	3.0	0.60	122.1	174.6	82.6	67.9	57.5	55.7	ELEC	36.0	2	7.5	460-3	TRANE	TCD180B
RTU-2A	ADMIN - NORTHWEST	3820	615	3.0	0.75	107.4	141.9	83.4	67.6	57.3	55.4	ELEC	18.0	2	6.25	460-3	TRANE	TCD150B
RTU-3A	ADMIN - SOUTHWEST	3765	280	2.0	0.70	87.6	101.7	81.4	65.3	58.7	56.3	ELEC	18.0	2	4.3	460-3	TRANE	TCD102B
RTU-4A	ADMIN - SOUTHEAST	4105	525	3.0	0.80	104.0	132.3	82.5	66.6	57.9	56.0	ELEC	18.0	2	5.0	460-3	TRANE	TCD150B
RTU-5A	ADMIN - NORTHEAST	3270	555	2.0	0.65	88.0	119.9	83.7	68.0	58.1	56.3	ELEC	18.0	2	5.0	460-3	TRANE	TCD120B

SPLIT SYSTEM SCHEDULE

MARK	AHU FAN CFM SA	AHU FAN CFM OA	AHU FAN HP	AHU FAN ESP	AHU FAN V-PH	AHU CAP MBH SENS	AHU CAP MBH TOTAL	AHU ENT AIR F DB	AHU ENT AIR F WB	AHU LVG AIR F DB	AHU LVG AIR F WB	AHU HEAT KW	AHU HEAT STAGES	AHU HEAT V-PH	CONDENSING UNIT MARK	CONDENSING UNIT COMPRESSOR #	CONDENSING UNIT COMPRESSOR HP	CONDENSING UNIT CONDENSER # FANS	CONDENSING UNIT CONDENSER HP	CONDENSING UNIT V-PH	MANUFACTURER	MODEL NO AHU	MODEL NO CU
AHU-1W	910	290	1/2		208-1	23.0	37.5	82.6	69.8	60.2	57.8	5.76	1	208-1	CU-1W	1	-	1	1/4	208-1	TRANE	TWE036C	TTR036C
AHU-2W	1020	80	1/3		208-1	23.9	27.3	85.7	73.3	57.9	54.6	4.32	1	208-1	CU-2W	1	-	1	1/4	208-1	TRANE	TWE030C	TTR030C

AIR DEVICE DESIGNATION — THROAT SIZE OR INLET SIZE; 12X12; 200-2; CFM; DIRECTIONS OF FLOW (SHOWN IF NOT 4-WAY)

(1) / (656) AIR DEVICE DESIGNATION

NOT TO SCALE

AIR DISTRIBUTION SCHEDULE

MARK	DESCRIPTION	MANUF.	MODEL
A	24x24 PERFORATED FACE EXHAUST REGISTER	TITUS	PAR-AA
B	24x24 PERFORATED FACE DIFFUSER	TITUS	PAS-AA
C	24x24 PERFORATED FACE RETURN REGISTER	TITUS	PAR-AA
D	SIDEWALL LINEAR BAR DIFFUSER	TITUS	CT-481
E	24x24 PERF. FACE DIFFUSER - SURFACE-MOUNT	TITUS	PAS-AA
F	12x12 PERF. FACE EXHAUST REGISTER	TITUS	PAR-AA
G	12x12 PERF. FACE DIFFUSER	TITUS	PAS-AA
H	24x24 PERFORATED FACE RETURN GRILLE	TITUS	PAR-AA
J	24x24 PERF. FACE RETURN GRILLE - SURF. MOUNT	TITUS	PAR-AA

FAN SCHEDULE

MARK	AREA SERVED	TYPE	CFM	ESP IN WG	MOTOR HP	MOTOR DRIVE	MOTOR RPM	MOTOR V-PH	MANUFACTURER	MODEL NO.	CONTROL
F-1M	MECHANICAL SHOP	PROP. ROOF EXH.	11100	1/8	3	DIRECT	1160	208-3	ACME	LQ30M5	SWITCH
F-2M	MECHANICAL SHOP	PROP. ROOF EXH.	11100	1/8	3	DIRECT	1160	208-3	ACME	LQ30M5	SWITCH
F-1W	WAREHOUSE	CENT. ROOF EXH.	24535	1/8	3	BELT	326	208-3	ACME	PNN543M	SWITCH
F-2W	WAREHOUSE	CENT. ROOF EXH.	24535	1/8	3	BELT	326	208-3	ACME	PNN543M	SWITCH
F-3W	WAREHOUSE	CENT. ROOF EXH.	24535	1/8	3	BELT	326	208-3	ACME	PNN543M	SWITCH
F-4W	PAPER STORAGE	CENT. WALL EXH.	1130	1/8	1/8	DIRECT	1160	120-1	ACME	PW135C6	SWITCH
F-5W	RESTROOM	CEILING EXH.	70	1/8	50 W	DIRECT	1500	120-1	ACME	V80	LIGHT SWITCH
F-6W	W. RESTROOM	CENT. ROOF EXH.	515	1/8	1/10	DIRECT	1300	120-1	ACME	PRN100	LT SWT W/ TIME DELAY
F-7W	M. RESTROOM	CENT. ROOF EXH.	515	1/8	1/10	DIRECT	1300	120-1	ACME	PRN100	LT SWT W/ TIME DELAY
F-1T	WELDING	PROP. WALL EXH.	3150	1/8	1/2	DIRECT	1160	120-1	ACME	FQ18G6	SWITCH
F-2T	WELDING	PROP. WALL EXH.	3150	1/8	1/2	DIRECT	1160	120-1	ACME	FQ18G6	SWITCH
F-3T	CARPENTRY	PROP. WALL EXH.	2150	1/8	1/4	DIRECT	1160	120-1	ACME	FQ18E6	SWITCH
F-4T	WOMEN	CEILING EXH.	70	1/8	50W	DIRECT	1500	120-1	ACME	V80	LIGHT SWITCH
F-5T	MEN	CEILING EXH.	70	1/8	50W	DIRECT	1500	120-1	ACME	V80	LIGHT SWITCH
F-6T	NUCLEAR TEST	CENT. WALL EXH.	800	1/8	1/10	DIRECT	1550	120-1	ACME	PW110	SWITCH
F-1A	RESTROOMS	CENT. ROOF EXH.	730	1/4	1/10	DIRECT	1300	120-1	ACME	PRN110	INTERLOCK w/RTU-3
F-2A	RESTROOMS	CENT. ROOF EXH.	790	1/4	1/10	DIRECT	1300	120-1	ACME	PRN110	INTERLOCK w/RTU-4
F-1R	WOMEN	CEILING EXH.	70	1/8	50W	DIRECT	1500	120-1	ACME	V80	LIGHT SWITCH
F-2R	MEN	CEILING EXH.	70	1/8	50W	DIRECT	1500	120-1	ACME	V80	LIGHT SWITCH

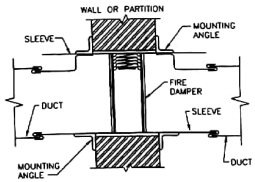
THRU THE WALL A/C SCHEDULE

MARK	COOLING BTUH	HEATING KW	COOLING FLA	HEATING FLA	ELECTRIC V-PH	MANUF	MODEL NO
TWU-1G	14600	3.0	8.0	12.4	208-1	TRANE	PTEB 150
TWU-1R	12500	2.5	6.8	10.2	208-1	TRANE	PTEB 120

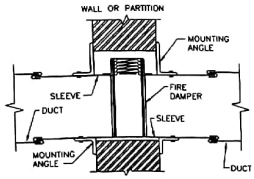
ZONE DAMPER SCHEDULE

MARK	VALVE CFM	INLET DIA	MANUFACTURER	MODEL NO
1-B	1355	12"ø	TRANE	DCBA12
1-BB	1355	12"ø	TRANE	DCBA12
1-1	840	10"ø	TRANE	DCCA10
1-2	1400	14"ø	TRANE	DCCA14
1-3	1400	14"ø	TRANE	DCCA14
1-4	870	10"ø	TRANE	DCCA10
2-B	1150	12"ø	TRANE	DCBA12
2-BB	1150	12"ø	TRANE	DCBA12
2-1	800	10"ø	TRANE	DCCA10
2-2	1150	12"ø	TRANE	DCCA12
2-3	995	12"ø	TRANE	DCCA12
2-4	495	8"ø	TRANE	DCCA08
2-5	380	8"ø	TRANE	DCCA08
3-B	1130	12"ø	TRANE	DCBA12
3-BB	1130	12"ø	TRANE	DCBA12
3-1	90	6"ø	TRANE	DCCA06
3-2	400	8"ø	TRANE	DCCA08
3-3	1200	12"ø	TRANE	DCCA12
3-4	825	10"ø	TRANE	DCCA10
3-5	555	8"ø	TRANE	DCCA06
3-6	805	10"ø	TRANE	DCCA10
4-B	1235	12"ø	TRANE	DCBA12
4-BB	1235	12"ø	TRANE	DCBA12
4-1	990	12"ø	TRANE	DCCA10
4-2	170	6"ø	TRANE	DCCA06
4-3	1130	12"ø	TRANE	DCCA12
4-4	615	10"ø	TRANE	DCCA10
4-5	1200	12"ø	TRANE	DCCA12
5-B	980	10"ø	TRANE	DCBA10
5-BB	985	10"ø	TRANE	DCBA10
5-1	1070	12"ø	TRANE	DCCA12
5-2	1050	12"ø	TRANE	DCCA12
5-3	705	10"ø	TRANE	DCCA10
5-4	450	8"ø	TRANE	DCCA08

FACTORY STANDARD SLEEVE



TYPICAL FIELD FABRICATED SLEEVE



INSTALLATION REQUIREMENTS

REQUIREMENTS FOR AN APPROVED INSTALLATION INCLUDE THE FOLLOWING:

OPENINGS IN FLOOR OR WALL SHALL BE 1/8" PER FOOT LARGER THAN DAMPER DIMENSIONS (3/16" LARGER PER FOOT FOR STAINLESS) MINIMUM CLEARANCE OF 1/4" REQUIRED FOR ANY INSTALLATION.

SLEEVE GAGE SHALL BE AT LEAST EQUAL TO THE GAGE OF THE DUCT AS DEFINED BY THE APPROPRIATE SMACNA DUCT CONSTRUCTION STANDARD, AS DESCRIBED IN NFPA 90A. WHEN ONE OR MORE OF THE FOLLOWING DUCT SLEEEVE CONNECTIONS ARE USED: PLAIN S SLIP, HEMMED S SLIP, STANDING S SLIP, REINFORCED STANDING S SLIP, INSIDE SLIP JOINT, DOUBLE S SLIP.

IF ANY OTHER DUCT SLEEVE CONNECTIONS ARE USED, THE SLEEVE SHALL BE MINIMUM 16 GAGE FOR DAMPERS UP TO 36"W x 24"H AND 14 GAGE IF WIDTH EXCEEDS 36" OR HEIGHT EXCEEDS 24".

MOUNTING ANGLES SHALL BE MINIMUM OF 1-1/2" x 1-1/2" x 14 GAGE AND BOLTED, TACK WELDED OR SCREWED TO SLEEVE AT MAXIMUM SPACING OF 12" AND WITH MINIMUM OF TWO CONNECTIONS IN EACH SIDE. TOP AND BOTTOM MOUNTING ANGLES SHALL OVERLAP WALL A MINIMUM OF ONE INCH ON ALL FOUR SIDES.

DAMPER SHALL BE BOLTED, TACK WELDED OR SCREWED TO SLEEVE ON SAME SPACING AS ANGLES. SLEEVES SHALL NOT EXTEND MORE THAN 6" OUTSIDE OF WALL.

ACCESS PANEL SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATIONS TO ALLOW ACCESS TO THE FUSIBLE LINK.

CONFIRM EXACT INSTALLATION REQUIREMENTS WITH MANUFACTURER OF DAMPER SUPPLIED.

FIRE DAMPER DETAIL

SCALE: NOT TO SCALE