

PALM BEACH COUNTY  
BOARD OF COUNTY COMMISSIONERS  
AGENDA ITEM SUMMARY

**3H-11**

Meeting Date: April 21, 2009

☒ Consent  
☐ Ordinance

☐ Regular  
☐ Public Hearing

Department: Facilities Development & Operations

**I. EXECUTIVE BRIEF**

**Motion and Title:** Staff recommends motion to approve: JOC Work Order No. 09-074 with M.A.C. Construction, Inc., (R2007-0949) in the amount of \$458,168.77 for replacement of two main air handler units for the first floor of the State Attorney/Public Defender Building.

**Summary:** The work consists of replacement of each of the existing air handler units for the first floor including all associated plumbing and electrical, replacement of the existing fresh air supply fan on the roof, replacement of the roof-top bathroom exhaust fan, and the addition of taps for both the supply and return chilled water lines for future AHU replacements for the other five floors. The SBE participation in this work order is 6.24%. When the participation for this work order is added to M.A.C.'s total participation-to-date, the resulting values are 18.97%. The SBE goals are 15%. The total construction duration is 180 days. This work will comply with all applicable local, state, and federal codes and regulations. All funding for this project is from the Five year Countywide Repair, Replace and Renovate account. (FD&O Admin) District 7 (JM)

**Background & Justification:** The air conditioning equipment in this building is almost 20 years old, is past its useful life, and is increasing expensive to maintain as parts are no longer readily available. This will be the first phase of a planned replacement of the equipment on all six floors. The new equipment will meet the current fresh air make-up Indoor air quality code requirements, necessitating the change out of the fresh air supply fan and bathroom exhaust fans on the roof. Adding the taps for future work on the other floors while the A/C system is turned off for this work, will allow future replacements with minimal disruption.

**Attachments:**

1. Work Order
2. Contractor's Proposal
3. SBE Estimate Report
4. Budget Availability Statement

Recommended by:

  
Department Director

4/1/09  
Date

Approved by:

  
County Administrator

4/9/09  
Date

## II. FISCAL IMPACT ANALYSIS

### A. Five Year Summary of Fiscal Impact:

Fiscal Year	2009	2010	2011	2012	2013
Capital Expenditures	\$510,896.57	0	0	0	0
Operating Costs	0	0	0	0	0
External Revenues	0	0	0	0	0
Program Income (County)	0	0	0	0	0
In-Kind Match (County)	0	0	0	0	0
NET FISCAL IMPACT	\$510,896.57	0	0	0	0
# Additional FTE Positions (Cumulative)	—	—	—	—	—

Is Item Included in Current Budget? Yes X No   

Budget Account No: 3804-411-B386-4907 (\$254,440.00)  
3804-411-B440-4907 (\$100,000.00)  
3804-411-B233-4610 (\$156,456.57)

Reporting Category \_\_\_\_\_

### B. Recommended Sources of Funds/Summary of Fiscal Impact:

These funds are Ad valorem targeted for maintenance.

Construction 458,168.77  
Contingency 52,727.80  
Total Fiscal Impact. 510,896.57

C. Departmental Fiscal Review: \_\_\_\_\_

## III. REVIEW COMMENTS

### A. OFMB Fiscal and/or Contract Development & Control Comments:

                     4/8/09  
OFMB                       
4/8/09 DW 4/6/09

                     4/9/09  
Contract Dev. and Control

This item complies with current  
County policies.


### A. Legal Sufficiency:

                     4/13/09  
Assistant County Attorney

### A. Other Department Review:

\_\_\_\_\_  
Department Director

This summary is not to be used as a basis for payment.

March 26, 2009	<b>JOC Work Order</b> Job Order Construction Services	
05644.01	SA/PD - First Floor HVAC State Attorney Building 401 North Dixie Highway, West Palm Beach FL 33401	

**Brief Description:** Remove and replace existing air handlers in the State Attorney building. Including all associated high and low voltage electrical wiring and all controls and associated wiring.  
Remove and replace existing chilled water piping per the Gartek design.

Contractor: M.A.C. Construction, Inc.  
9500 N.W. 12 Street  
Miami, FL 33172  
Contract: R-2007-0949 Dated June 19, 2008


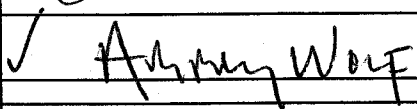

**AMOUNT:** \$ 458,168.77 **DISTRICT:** 7

Funding: 3804-411-B386-4907 \$254440.; \$3804-411-B440-4907 \$100000.;  
3804-411-B233-4610 \$156456.57

JOC Work Order #: 09-074

Project Duration: 6 Months (Liquidated damages will apply)

**Approval Signatures**

Allen Padilla, Project Coordinator		3/30/09 Date
Audrey Wolf, Director Facilities Development & Operations		3/31/09 Date
Chair Contract Review Committee	(NOT REQUIRED FOR PROJECTS <\$100,000 OR >\$200,000) Date	
Approved as to form and legal sufficiency County Attorney	Date	
John F. Koons, Chairman Board of County Commissioners	Date	
President M.A.C. Construction, Inc.		3/30/09 Date

COPY: Project File

**Job Order Contract**  
**Proposal Review - CSI Summary**

**Date** March 30, 2009  
**Job Order Number:** 05644.01  
**Job Order Name:** SA/PD - First Floor HVAC  
**Review:** SAPD AHU Replacement - 3/25/2009 3:12:39PM

Section 01	Subtotal for 01	\$77,033.49
Section 02	Subtotal for 02	\$762.88
Section 05	Subtotal for 05	\$10,165.98
Section 08	Subtotal for 08	\$1,631.01
Section 09	Subtotal for 09	\$1,353.12
Section 13	Subtotal for 13	\$22,526.02
Section 15	Subtotal for 15	\$272,826.61
Section 16	Subtotal for 16	\$71,869.66
Proposal Review Total		\$458,168.77

This job order proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

**ATTACHMENT #2**

Job Order Contract  
Proposal Review - CSI Detail

Date March 30, 2009  
Job Order Number: 05644.01  
Job Order Name: SA/PD - First Floor HVAC  
Review: SÄPD AHU Replacement - 3/25/2009 3:12:39PM

Sect.	Item	Mod.	UOM	Description	Line Total
Section 01					
1	01352	1091	HR	Electrician, Note: Line items in the CTC include appropriate costs to cover labor. These items will be requested specifically by the owner for miscellaneous work not covered in the CTC.	\$10,289.02
			Quantity	Unit Price	Factor
			Installation	240.00 x 38.97 x	1.1001 =
					Total
					\$10,289.02
			Elec. demo and connect supplied HVAC contractor equipment		
2	01352	1091	1911	HR For Foreman, Add	\$514.85
			Quantity	Unit Price	Factor
			Installation	240.00 x 1.95 x	1.1001 =
					Total
					\$514.85
			'Elec. demo and connect supplied HVAC contractor equipment'		
3	01352	1281	HR	Roofer, Composite, Note: Line items in the CTC include appropriate costs to cover labor. These items will be requested specifically by the owner for miscellaneous work not covered in the CTC.	\$8,745.36
			Quantity	Unit Price	Factor
			Installation	380.00 x 20.92 x	1.1001 =
					Total
					\$8,745.35
			roof penetration work for roof that is under warranty w/Murton Roofing		
4	01352	1311	HR	Sheet Metal Worker, Note: Line items in the CTC include appropriate costs to cover labor. These items will be requested specifically by the owner for miscellaneous work not covered in the CTC.	\$21,428.19
			Quantity	Unit Price	Factor
			Installation	480.00 x 40.58 x	1.1001 =
					Total
					\$21,428.19
			HVAC - Demo, dismantle interior ductwk and AHU system		
5	01352	1311	1911	HR For Foreman, Add	\$535.97
			Quantity	Unit Price	Factor
			Installation	240.00 x 2.03 x	1.1001 =
					Total
					\$535.97
			'HVAC - Demo, dismantle interior ductwk and AHU system'		
6	01352	1331	HR	Sprinkler Installer, Note: Line items in the CTC include appropriate costs to cover labor. These items will be requested specifically by the owner for miscellaneous work not covered in the CTC.	\$9,669.88
			Quantity	Unit Price	Factor
			Installation	200.00 x 43.95 x	1.1001 =
					Total
					\$9,669.88
			fire sprinkler mods per plans		
7	01352	1331	1911	HR For Foreman, Add	\$242.02
			Quantity	Unit Price	Factor
			Installation	100.00 x 2.20 x	1.1001 =
					Total
					\$242.02
8	01352	3020	HR	Programming And Certification Of New Devices To Existing Panels	\$3,168.29
			Quantity	Unit Price	Factor
			Installation	24.00 x 120.00 x	1.1001 =
					Total
					\$3,168.29
9	01510	2015	EA	20 CY Dumpster (7 Ton Capacity) "Construction Debris" Note: Price Includes Service To Deliver And Pick-up Of Dumpster, Hauling Of Debris, Rental Of Dumpster And Disposal Fee.	\$1,402.63
			Quantity	Unit Price	Factor
			Installation	3.00 x 425.00 x	1.1001 =
					Total
					\$1,402.63
10	01510	2015	3094	EA City Of West Palm Beach Franchise Fee, Add	\$49.50
			Quantity	Unit Price	Factor
			Installation	3.00 x 15.00 x	1.1001 =
					Total
					\$49.50
11	01560	4001	LF	Temporary Safety Fence, Plastic Mesh, 48" High With Posts At 8' On Center	\$679.86
			Quantity	Unit Price	Factor
			Installation	600.00 x 1.03 x	1.1001 =
					Total
					\$679.86

## Proposal Review - CSI Detail (Continued)

Job Order Number: 05644.01

Job Order Name: SA/PD - First Floor HVAC

Review: SAPD AHU Replacement - 3/25/2009 3:12:39PM

12	01560	5302	SF	1/2" Plywood For Floor Protection						\$2,557.73
				Quantity	Unit Price	Factor		Total		
			Installation	7,500.00 x	0.31 x	1.1001 =		\$2,557.73		
13	01560	7127	MO	Type I Traffic Control Barricade, 2' Wide x 3' High A-Frame, 1 2' Wide x 8" High Reflectorized Rail Each Side						\$577.55
				Quantity	Unit Price	Factor		Total		
			Installation	60.00 x	8.75 x	1.1001 =		\$577.55		
14	01590	9118	WK	50 Ton Lift Hydraulic Crane, With Full-Time Operator						\$11,574.66
				Quantity	Unit Price	Factor		Total		
			Installation	2.00 x	5,260.73 x	1.1001 =		\$11,574.66		
15	01590	9702	WK	4000 To 5999 LB Forklift With Full-Time Operator						\$1,543.59
				Quantity	Unit Price	Factor		Total		
			Installation	1.00 x	1,403.14 x	1.1001 =		\$1,543.59		
16	01591	4102	EA	20 To 30 Ton Move On/Off Cost, Truck Mounted Crane						\$1,386.65
				Quantity	Unit Price	Factor		Total		
			Installation	4.00 x	315.12 x	1.1001 =		\$1,386.65		
17	01740	1111	CSF	Clean Miscellaneous Surfaces, Wipe Down With Mild Detergent						\$2,667.74
				Quantity	Unit Price	Factor		Total		
			Installation	500.00 x	4.85 x	1.1001 =		\$2,667.74		
Subtotal for 01									\$77,033.49	
Section 02										
18	02112	6041	EA	Saw Cut Minimum Charge For projects where the total saw cutting charge is less than the minimum charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.						\$381.44
				Quantity	Unit Price	Factor		Total		
			Installation	1.00 x	346.73 x	1.1001 =		\$381.44		
19	02112	7901	EA	Core Drill Minimum Charge For projects where the total core drilling charge is less than the minimum charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.						\$381.44
				Quantity	Unit Price	Factor		Total		
			Installation	1.00 x	346.73 x	1.1001 =		\$381.44		
Subtotal for 02									\$762.88	
Section 05										
20	05120	1331	TON	0-20 LB/LF Double L Shape Steel Angles						\$6,353.03
				Quantity	Unit Price	Factor		Total		
			Installation	1.00 x	5,774.96 x	1.1001 =		\$6,353.03		
			AHU slab stands for mech rm							
21	05506	1011	LF	Unistrut Channel 1-5/8" Wide x 1-5/8" High, 12 Gauge						\$3,393.81
				Quantity	Unit Price	Factor		Total		
			Installation	500.00 x	6.17 x	1.1001 =		\$3,393.81		
22	05506	3011	EA	Unistrut Nut With Spring, 1-5/8" Channel 1/4"						\$419.14
				Quantity	Unit Price	Factor		Total		
			Installation	300.00 x	1.27 x	1.1001 =		\$419.14		
Subtotal for 05									\$10,165.98	
Section 08										
23	08305	1105	EA	24"x24" Access Doors Stainless Steel With Lock, Fire Rated						\$1,631.01
				Quantity	Unit Price	Factor		Total		
			Installation	3.00 x	494.20 x	1.1001 =		\$1,631.01		
Subtotal for 08									\$1,631.01	

## Proposal Review - CSI Detail (Continued)

Job Order Number: 05644.01

Job Order Name: SA/PD - First Floor HVAC

Review: SAPD AHU Replacement - 3/25/2009 3:12:39PM

### Section 09

24	09945	1821	SF	Cut And Patch Hole To Match Existing, To 10 SF						\$1,353.12
				Quantity		Unit Price		Factor		Total
			Installation	250.00	x	4.92	x	1.1001	=	\$1,353.12
<b>Subtotal for 09</b>										<b>\$1,353.12</b>

### Section 13

25	13847	9803	EA	DDC Control Module						\$12,844.75
				Quantity		Unit Price		Factor		Total
			Installation	2.00	x	5,837.99	x	1.1001	=	\$12,844.75
26	13847	9806	EA	DDC Remote Controller Module						\$7,081.78
				Quantity		Unit Price		Factor		Total
			Installation	2.00	x	3,218.70	x	1.1001	=	\$7,081.78
27	13851	6168	EA	Analog Loop Dr (2 Circuits) Model ALD-2I, P/N 500-891618						\$2,599.49
				Quantity		Unit Price		Factor		Total
			Installation	4.00	x	590.74	x	1.1001	=	\$2,599.49
			circuit setters							
<b>Subtotal for 13</b>										<b>\$22,526.02</b>

### Section 15

28	15042	2004	EA	1-1/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation						\$325.08
				Quantity		Unit Price		Factor		Total
			Installation	50.00	x	5.91	x	1.1001	=	\$325.08
29	15043	1005	EA	Balancing Roof Exhaust Fan						\$271.61
				Quantity		Unit Price		Factor		Total
			Installation	2.00	x	123.45	x	1.1001	=	\$271.61
30	15043	2001	EA	Balancing Central A/C Station						\$706.48
				Quantity		Unit Price		Factor		Total
			Installation	2.00	x	321.10	x	1.1001	=	\$706.48
31	15043	3002	EA	Balancing HVAC Duct System, Ceiling Height > 12' Supply, Return, Exhaust, Register And Diffuser						\$113.18
				Quantity		Unit Price		Factor		Total
			Installation	2.00	x	51.44	x	1.1001	=	\$113.18
32	15043	3012	EA	Balance Dampers						\$194.06
				Quantity		Unit Price		Factor		Total
			Installation	24.00	x	7.35	x	1.1001	=	\$194.06
33	15048	1322	EA	Hydrostatic Test, 101-250 LF Of 2" - 4" Diameter Pipe						\$1,198.43
				Quantity		Unit Price		Factor		Total
			Installation	2.00	x	544.69	x	1.1001	=	\$1,198.43
34	15061	3318	LF	4" (10 cm) Black Pipe, Plain End Schedule 40 ASTM A-53, Not Including Hangers Or Fittings						\$5,328.88
				Quantity		Unit Price		Factor		Total
			Installation	200.00	x	24.22	x	1.1001	=	\$5,328.88
35	15061	3318	3991	For Work In Restricted Working Space, Add						\$675.46
				Quantity		Unit Price		Factor		Total
			Installation	200.00	x	3.07	x	1.1001	=	\$675.46
36	15061	3338	EA	4" (10 cm) 90 Degree Weld Elbow, Standard Weight						\$1,533.72
				Quantity		Unit Price		Factor		Total
			Installation	8.00	x	174.27	x	1.1001	=	\$1,533.72

## Proposal Review - CSI Detail (Continued)

Job Order Number: 05644.01

Job Order Name: SA/PD - First Floor HVAC

Review: SAPD AHU Replacement - 3/25/2009 3:12:39PM

37	15061	3338	3991	EA	For Work In Restricted Working Space, Add						\$378.26
					Installation	Quantity	Unit Price	Factor		Total	
						8.00	42.98	1.1001	=	\$378.26	
38	15061	3819		EA	Cut And Prepare For Welding 4" (10 cm) Black Steel Pipe						\$188.65
					Installation	Quantity	Unit Price	Factor		Total	
						12.00	14.29	1.1001	=	\$188.65	
39	15061	4762		EA	4" x 3" (10 cm x 76 mm) Reducer, Concentric, Flanged Steel, Standard Weight						\$7,153.64
					Installation	Quantity	Unit Price	Factor		Total	
						8.00	812.84	1.1001	=	\$7,153.64	
40	15061	8722		EA	2" Tee Type Strainer, Grooved						\$3,002.26
					Installation	Quantity	Unit Price	Factor		Total	
						4.00	682.27	1.1001	=	\$3,002.26	
41	15063	1108		LF	2" Inside Diameter (51 mm) Copper Pipe/Tubing Type L						\$2,322.09
					Installation	Quantity	Unit Price	Factor		Total	
						120.00	17.59	1.1001	=	\$2,322.09	
42	15063	1108	2006	LF	For Work In Restricted Working Space, Add						\$137.29
					Installation	Quantity	Unit Price	Factor		Total	
						120.00	1.04	1.1001	=	\$137.29	
43	15063	2117		EA	2" 90 Degree Elbow, Copper						\$1,033.43
					Installation	Quantity	Unit Price	Factor		Total	
						22.00	42.70	1.1001	=	\$1,033.43	
44	15063	2117	2006	EA	For Work In Restricted Working Space, Add						\$182.24
					Installation	Quantity	Unit Price	Factor		Total	
						22.00	7.53	1.1001	=	\$182.24	
45	15063	2158		EA	2" Copper Tee - Straight Sweat						\$909.96
					Installation	Quantity	Unit Price	Factor		Total	
						12.00	68.93	1.1001	=	\$909.96	
46	15063	2158	2006	EA	For Work In Restricted Working Space, Add						\$149.83
					Installation	Quantity	Unit Price	Factor		Total	
						12.00	11.35	1.1001	=	\$149.83	
47	15063	6172		EA	3" x 2" Copper Concentric Reducer, Grooved						\$248.18
					Installation	Quantity	Unit Price	Factor		Total	
						4.00	56.40	1.1001	=	\$248.18	
48	15064	6339		EA	4" Union, PVC Schedule 40 Socket Weld						\$806.68
					Installation	Quantity	Unit Price	Factor		Total	
						8.00	91.66	1.1001	=	\$806.68	
					used for black with brass seat						
49	15064	6339	9401	EA	For Work In Restricted Working Space, Add						\$156.48
					Installation	Quantity	Unit Price	Factor		Total	
						8.00	17.78	1.1001	=	\$156.48	
50	15066	5332		EA	1/4" NPT Pressure Gauge, Liquid Filled, 6000 PSIG, Blow Out Back						\$2,381.41
					Installation	Quantity	Unit Price	Factor		Total	
						8.00	270.59	1.1001	=	\$2,381.41	
51	15080	2302		EA	Thermometer, 9" Scale And Angle Stem, Adjustable, Industrial With Mercury, Multi Range With Socket Connection For Thermowell						\$691.21
					Installation	Quantity	Unit Price	Factor		Total	
						8.00	78.54	1.1001	=	\$691.21	
52	15080	3504		EA	Nipple, 1/4", Black Steel 3" (76 mm) Long						\$91.09
					Installation	Quantity	Unit Price	Factor		Total	
						15.00	5.52	1.1001	=	\$91.09	



## Proposal Review - CSI Detail (Continued)

Job Order Number: 05644.01

Job Order Name: SA/PD - First Floor HVAC

Review: SAPD AHU Replacement - 3/25/2009 3:12:39PM

53	15094	2705	EA	4" Forged Steel Clevis With Pin Type 14						\$6,969.35
				Installation	Quantity	Unit Price	Factor		Total	
					40.00	158.38	1.1001	=	\$6,969.35	
54	15094	2708	EA	8" Forged Steel Clevis With Pin Type 14						\$34,944.90
				Installation	Quantity	Unit Price	Factor		Total	
					40.00	794.13	1.1001	=	\$34,944.90	
55	15094	2708	5391	EA	For Work In Restricted Working Space, Add					\$234.54
				Installation	Quantity	Unit Price	Factor		Total	
					40.00	5.33	1.1001	=	\$234.54	
56	15094	4132	EA	1/2" Washer, Flat						\$137.18
				Installation	Quantity	Unit Price	Factor		Total	
					430.00	0.29	1.1001	=	\$137.18	
57	15094	4132	4138	EA	For Galvanized, Add					\$0.00
				Installation	Quantity	Unit Price	Factor		Total	
					0.00	0.03	1.1001	=	\$0.00	
58	15094	4132	5391	EA	For Work In Restricted Working Space, Add					\$0.00
				Installation	Quantity	Unit Price	Factor		Total	
					0.00	0.05	1.1001	=	\$0.00	
59	15094	5345	EA	4" Pipe Saddle, Type 39 (For 1-1/2" Insulation)						\$557.53
				Installation	Quantity	Unit Price	Factor		Total	
					40.00	12.67	1.1001	=	\$557.53	
60	15094	5345	5391	EA	For Work In Restricted Working Space, Add					\$0.00
				Installation	Quantity	Unit Price	Factor		Total	
					0.00	2.23	1.1001	=	\$0.00	
61	15101	1305	EA	4" Gate Valve, Iron Body, Threaded, 125# Bronze Mounted						\$8,595.17
				Installation	Quantity	Unit Price	Factor		Total	
					12.00	651.09	1.1001	=	\$8,595.17	
62	15104	1101	EA	1/2" Ball Valve, Brass Body, Threaded Or Sweated, 125#, Regular Port						\$400.22
				Installation	Quantity	Unit Price	Factor		Total	
					17.00	21.40	1.1001	=	\$400.22	
63	15161	4403	EA	550-1920# Rubber In Shear Vibration Isolation With 0.48" Deflection						\$5,303.19
				Installation	Quantity	Unit Price	Factor		Total	
					16.00	301.29	1.1001	=	\$5,303.19	
64	15185	1304	LF	1-1/4" Diameter Pipe, 1-1/2" Thick Fiberglass Insulation						\$849.28
				Installation	Quantity	Unit Price	Factor		Total	
					100.00	7.72	1.1001	=	\$849.28	
65	15185	1304	1999	LF	For Work In Restricted Working Space, Add					\$18.09
				Installation	Quantity	Unit Price	Factor		Total	
					12.00	1.37	1.1001	=	\$18.09	
66	15772	3004	EA	2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat						\$11,472.44
				Installation	Quantity	Unit Price	Factor		Total	
					2.00	5,214.27	1.1001	=	\$11,472.44	
67	15830	1302	EA	36000 CFM Belt Drive 15 HP Propeller Exhaust Fan, Roof Mounted, 1/2" Static Pressure						\$11,891.62
				Installation	Quantity	Unit Price	Factor		Total	
					2.00	5,404.79	1.1001	=	\$11,891.62	
68	15832	1107	EA	46" x 46" Opening Relief/Intake Roof Ventilator, Mushroom Type, Aluminum, Damper, Birdscreen						\$2,746.73
				Installation	Quantity	Unit Price	Factor		Total	
					2.00	1,248.40	1.1001	=	\$2,746.73	

## Proposal Review - CSI Detail (Continued)

Job Order Number: 05644.01

Job Order Name: SA/PD - First Floor HVAC

Review: SAPD AHU Replacement - 3/25/2009 3:12:39PM

69	15834	1137		EA	25000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan							\$29,692.78
					Installation	Quantity		Unit Price		Factor		Total
						2.00	x	13,495.49	x	1.1001	=	\$29,692.78
70	15834	1137	1451	EA	For Chilled Water Cooling Coil, Aluminum Fins, Add							\$9,430.83
					Installation	Quantity		Unit Price		Factor		Total
						2.00	x	4,286.35	x	1.1001	=	\$9,430.83
71	15834	1137	1476	EA	For Economizer, Including Panel, Controls And Damper(s), Add							\$5,244.35
					Installation	Quantity		Unit Price		Factor		Total
						2.00	x	2,383.58	x	1.1001	=	\$5,244.35
72	15836	1005		EA	2000 CFM, 5 Ton, Unit Ventilator, Horizontal, Classroom Package Self-Contained Unit							\$11,341.35
					Installation	Quantity		Unit Price		Factor		Total
						2.00	x	5,154.69	x	1.1001	=	\$11,341.35
					OAU 1 & 2							
73	15840	1503		LB	Sheet Metal Ductwork, High Pressure, Field Fabricated, Galvanized, Field Assemble And Install							\$80,160.99
					Installation	Quantity		Unit Price		Factor		Total
						10,700.00	x	5.50	x	1.1001	=	\$64,740.89
					Demolition	10,700.00	x	1.31	x	1.1001	=	\$15,420.10
74	15840	1503	3101	LB	For Work In Restricted Working Space, Add							\$15,890.94
					Installation	Quantity		Unit Price		Factor		Total
						10,700.00	x	1.35	x	1.1001	=	\$15,890.94
75	15863	1003		EA	18" x 18" Barometric Damper							\$922.90
					Installation	Quantity		Unit Price		Factor		Total
						4.00	x	209.73	x	1.1001	=	\$922.90
76	15869	1204		EA	12" Diameter Inlet, 325 - 2000 CFM, Variable Air Volume Box With pneumatic controller							\$772.03
					Installation	Quantity		Unit Price		Factor		Total
						2.00	x	350.89	x	1.1001	=	\$772.03
77	15869	1204	1212	EA	For Hot Water Coils, Add							\$0.00
					Installation	Quantity		Unit Price		Factor		Total
						0.00	x	40.55	x	1.1001	=	\$0.00
78	15920	1101		EA	3 Analog Input, 8 Digital Output Stand Alone Unit Controller							\$1,124.43
					Installation	Quantity		Unit Price		Factor		Total
						2.00	x	511.06	x	1.1001	=	\$1,124.43
79	15920	2101		EA	Configuration Software							\$642.12
					Installation	Quantity		Unit Price		Factor		Total
						1.00	x	583.69	x	1.1001	=	\$642.12
80	15920	3101		EA	Room Temperature Sensor With Cover							\$804.17
					Installation	Quantity		Unit Price		Factor		Total
						4.00	x	182.75	x	1.1001	=	\$804.17
81	15938	3205		EA	2" Three Way Electric Control Valve, Brass, Threaded, With Actuator							\$1,261.92
					Installation	Quantity		Unit Price		Factor		Total
						2.00	x	573.55	x	1.1001	=	\$1,261.92
82	15939	1002		EA	Modutrol Motor, Low/Line Voltage Application For 14" To 24" Diameter Valve Motor Control Actuator, Reversible							\$1,237.96
					Installation	Quantity		Unit Price		Factor		Total
						2.00	x	562.66	x	1.1001	=	\$1,237.96
Subtotal for 15												\$272,826.61

### Section 16

# Proposal Review - CSI Detail (Continued)

Job Order Number: 05644.01

Job Order Name: SA/PD - First Floor HVAC

Review: SAPD AHU Replacement - 3/25/2009 3:12:39PM

83	16120	1222	MLF	#14 AWG Cable - XLP (XHHW), 600 V, Single Stranded, Placed In Conduit						\$42,339.77
				Quantity		Unit Price		Factor		Total
			Installation	80.00	x	481.09	x	1.1001	=	\$42,339.77
84	16120	1223	MLF	#12 AWG Cable - XLP (XHHW), 600 V, Single Stranded, Placed In Conduit						\$1,335.43
				Quantity		Unit Price		Factor		Total
			Installation	2.00	x	606.96	x	1.1001	=	\$1,335.43
85	16120	1224	MLF	#10 AWG Cable - XLP (XHHW), 600 V, Single Stranded, Placed In Conduit						\$1,297.41
				Quantity		Unit Price		Factor		Total
			Installation	1.50	x	786.24	x	1.1001	=	\$1,297.41
86	16120	1225	MLF	#8 AWG Cable - XLP (XHHW), 600 V, Single Stranded, Placed In Conduit						\$1,954.72
				Quantity		Unit Price		Factor		Total
			Installation	1.90	x	935.19	x	1.1001	=	\$1,954.72
87	16120	8308	CLF	Red Teflon 2-Pair #14 Gauge, Twisted Shielded Solid CU						\$4,892.42
				Quantity		Unit Price		Factor		Total
			Installation	25.00	x	177.89	x	1.1001	=	\$4,892.42
88	16131	2152	EA	RGS 3/4" Plastic Bushing Set With Locknuts, Mounted Exposed On Flat Wall						\$12.56
				Quantity		Unit Price		Factor		Total
			Installation	2.00	x	5.71	x	1.1001	=	\$12.56
89	16131	2171	EA	RGS 1/2" Steel Bushing Set With Locknuts, Mounted Exposed On Flat Wall						\$652.14
				Quantity		Unit Price		Factor		Total
			Installation	120.00	x	4.94	x	1.1001	=	\$652.14
90	16131	2172	EA	RGS 3/4" Steel Bushing Set With Locknuts, Mounted Exposed On Flat Wall						\$153.40
				Quantity		Unit Price		Factor		Total
			Installation	24.00	x	5.81	x	1.1001	=	\$153.40
91	16131	2173	EA	RGS 1" Steel Bushing Set With Locknuts, Mounted Exposed On Flat Wall						\$16.44
				Quantity		Unit Price		Factor		Total
			Installation	2.00	x	7.47	x	1.1001	=	\$16.44
92	16131	2611	LF	1/2" EMT Conduit, Mounted Exposed On Flat Wall						\$6,445.49
				Quantity		Unit Price		Factor		Total
			Installation	3,150.00	x	1.86	x	1.1001	=	\$6,445.49
93	16131	2611	2649	LF	For Installation In Concrete, Add					\$0.00
				Quantity		Unit Price		Factor		Total
			Installation	0.00	x	0.24	x	1.1001	=	\$0.00
94	16131	2611	2821	LF	For Work In Restricted Working Space, Add					\$0.00
				Quantity		Unit Price		Factor		Total
			Installation	0.00	x	0.49	x	1.1001	=	\$0.00
95	16131	2611	2822	LF	For Installation Above 14' (4.3 m), Add					\$0.00
				Quantity		Unit Price		Factor		Total
			Installation	0.00	x	0.24	x	1.1001	=	\$0.00
96	16131	2612	LF	3/4" EMT Conduit, Mounted Exposed On Flat Wall						\$48.84
				Quantity		Unit Price		Factor		Total
			Installation	20.00	x	2.22	x	1.1001	=	\$48.84
97	16131	2612	2649	LF	For Installation In Concrete, Add					\$0.00
				Quantity		Unit Price		Factor		Total
			Installation	0.00	x	0.27	x	1.1001	=	\$0.00
98	16131	2612	2821	LF	For Work In Restricted Working Space, Add					\$0.00
				Quantity		Unit Price		Factor		Total
			Installation	0.00	x	0.54	x	1.1001	=	\$0.00

## Proposal Review - CSI Detail (Continued)

Job Order Number: 05644.01

Job Order Name: SA/PD - First Floor HVAC

Review: SAPD AHU Replacement - 3/25/2009 3:12:39PM

99	16131	2612	2822	LF	For Installation Above 14' (4.3 m), Add						\$0.00
					Installation	Quantity	Unit Price	Factor		Total	
						0.00	x 0.27	1.1001	=	\$0.00	
100	16131	2651		EA	1/2" EMT Set Screw Coupling, Mounted Exposed On Flat Wall						\$586.90
					Installation	Quantity	Unit Price	Factor		Total	
						275.00	x 1.94	1.1001	=	\$586.90	
101	16131	2651	2821	EA	For Work In Restricted Working Space, Add						\$0.00
					Installation	Quantity	Unit Price	Factor		Total	
						0.00	x 0.54	1.1001	=	\$0.00	
102	16131	2651	2822	EA	For Installation Above 14' (4.3 m), Add						\$0.00
					Installation	Quantity	Unit Price	Factor		Total	
						0.00	x 0.27	1.1001	=	\$0.00	
103	16131	2691		EA	1/2" EMT Box Connector With Set Screw						\$17.25
					Installation	Quantity	Unit Price	Factor		Total	
						8.00	x 1.96	1.1001	=	\$17.25	
104	16131	2691	2821	EA	For Work In Restricted Working Space, Add						\$0.00
					Installation	Quantity	Unit Price	Factor		Total	
						0.00	x 0.54	1.1001	=	\$0.00	
105	16131	2691	2822	EA	For Installation Above 14' (4.3 m), Add						\$0.00
					Installation	Quantity	Unit Price	Factor		Total	
						0.00	x 0.27	1.1001	=	\$0.00	
106	16131	2692		EA	3/4" EMT Box Connector With Set Screw						\$5.32
					Installation	Quantity	Unit Price	Factor		Total	
						2.00	x 2.42	1.1001	=	\$5.32	
107	16131	2692	2821	EA	For Work In Restricted Working Space, Add						\$0.00
					Installation	Quantity	Unit Price	Factor		Total	
						0.00	x 0.65	1.1001	=	\$0.00	
108	16131	2692	2822	EA	For Installation Above 14' (4.3 m), Add						\$0.00
					Installation	Quantity	Unit Price	Factor		Total	
						0.00	x 0.32	1.1001	=	\$0.00	
109	16131	2731		EA	1/2" EMT Box Connector, Compression						\$50.66
					Installation	Quantity	Unit Price	Factor		Total	
						15.00	x 3.07	1.1001	=	\$50.66	
110	16131	2731	2821	EA	For Work In Restricted Working Space, Add						\$10.73
					Installation	Quantity	Unit Price	Factor		Total	
						15.00	x 0.65	1.1001	=	\$10.73	
111	16131	8112		LF	1/2" Liquid Tight Flex Conduit						\$20.07
					Installation	Quantity	Unit Price	Factor		Total	
						12.00	x 1.52	1.1001	=	\$20.07	
112	16131	8112	9199	LF	For Work In Restricted Working Space, Add						\$4.22
					Installation	Quantity	Unit Price	Factor		Total	
						12.00	x 0.32	1.1001	=	\$4.22	
113	16131	8132		EA	1/2" Straight Connector						\$34.85
					Installation	Quantity	Unit Price	Factor		Total	
						8.00	x 3.96	1.1001	=	\$34.85	
114	16131	8132	9199	EA	For Work In Restricted Working Space, Add						\$7.57
					Installation	Quantity	Unit Price	Factor		Total	
						8.00	x 0.86	1.1001	=	\$7.57	

## Proposal Review - CSI Detail (Continued)

Job Order Number: 05644.01

Job Order Name: SA/PD - First Floor HVAC

Review: SAPD AHU Replacement - 3/25/2009 3:12:39PM

115	16131	8133	EA	3/4" Straight Connector						\$10.54
				Quantity		Unit Price		Factor		Total
			Installation	2.00	x	4.79	x	1.1001	=	\$10.54
116	16131	8133	9199	EA	For Work In Restricted Working Space, Add					\$2.13
				Quantity		Unit Price		Factor		Total
			Installation	2.00	x	0.97	x	1.1001	=	\$2.13
117	16131	8212	LF	1/2" Flexible Metallic Conduit						\$27.72
				Quantity		Unit Price		Factor		Total
			Installation	18.00	x	1.40	x	1.1001	=	\$27.72
118	16131	8212	9199	LF	For Work In Restricted Working Space, Add					\$6.93
				Quantity		Unit Price		Factor		Total
			Installation	18.00	x	0.35	x	1.1001	=	\$6.93
119	16131	8214	LF	1" Flexible Metallic Conduit						\$12.81
				Quantity		Unit Price		Factor		Total
			Installation	6.00	x	1.94	x	1.1001	=	\$12.81
120	16131	8232	EA	1/2" Flexible Straight Connectors, Plain						\$36.57
				Quantity		Unit Price		Factor		Total
			Installation	12.00	x	2.77	x	1.1001	=	\$36.57
121	16131	8232	9199	EA	For Work In Restricted Working Space, Add					\$7.79
				Quantity		Unit Price		Factor		Total
			Installation	12.00	x	0.59	x	1.1001	=	\$7.79
122	16131	8412	LF	1/2" Non-Metallic Liquid Tight Flex Conduit						\$930.68
				Quantity		Unit Price		Factor		Total
			Installation	360.00	x	2.35	x	1.1001	=	\$930.68
123	16131	8412	9199	LF	For Work In Restricted Working Space, Add					\$0.00
				Quantity		Unit Price		Factor		Total
			Installation	0.00	x	0.32	x	1.1001	=	\$0.00
124	16131	8413	LF	3/4" Non-Metallic Liquid Tight Flex Conduit						\$252.67
				Quantity		Unit Price		Factor		Total
			Installation	72.00	x	3.19	x	1.1001	=	\$252.67
125	16131	8432	EA	1/2" Non-Metallic Straight Connector						\$473.92
				Quantity		Unit Price		Factor		Total
			Installation	60.00	x	7.18	x	1.1001	=	\$473.92
126	16131	8432	9199	EA	For Work In Restricted Working Space, Add					\$0.00
				Quantity		Unit Price		Factor		Total
			Installation	0.00	x	0.86	x	1.1001	=	\$0.00
127	16131	8433	EA	3/4" Non-Metallic Straight Connector						\$126.86
				Quantity		Unit Price		Factor		Total
			Installation	12.00	x	9.61	x	1.1001	=	\$126.86
128	16131	8434	EA	1" Non-Metallic Straight Connector						\$14.50
				Quantity		Unit Price		Factor		Total
			Installation	1.00	x	13.18	x	1.1001	=	\$14.50
129	16134	1101	EA	4" Square Steel Box X 1-1/2" Deep						\$85.98
				Quantity		Unit Price		Factor		Total
			Installation	8.00	x	9.77	x	1.1001	=	\$85.98
130	16134	1102	EA	4" Square Steel Box X 2-1/8" Deep						\$606.71
				Quantity		Unit Price		Factor		Total
			Installation	50.00	x	11.03	x	1.1001	=	\$606.71

## Proposal Review - CSI Detail (Continued)

Job Order Number: 05644.01

Job Order Name: SA/PD - First Floor HVAC

Review: SAPD AHU Replacement - 3/25/2009 3:12:39PM

131	16134	1104	EA	4" Square Steel Blank Cover						\$222.04
				Quantity	Unit Price	Factor		Total		
			Installation	58.00 x	3.48 x	1.1001 =		\$222.04		
132	16135	1132	EA	8"x8"x6" NEMA 1 Enclosure, Hinged Cover Included						\$61.09
				Quantity	Unit Price	Factor		Total		
			Installation	1.00 x	55.53 x	1.1001 =		\$61.09		
133	16155	2114	EA	Magnetic Starter, Size 3, NEMA 1, Three Phase, Non-Reversing, 208 V @ 25 HP, 230 V @ 30 HP, 480 V @ 50 HP						\$2,704.20
				Quantity	Unit Price	Factor		Total		
			Installation	2.00 x	1,229.07 x	1.1001 =		\$2,704.20		
134	16170	3121	EA	30 A, Fused Disconnect Switch, NEMA 4, 4X Or 5, Heavy Duty, With Fuses, 600 V, 1 Phase, 2 Pole						\$2,443.67
				Quantity	Unit Price	Factor		Total		
			Installation	2.00 x	1,110.66 x	1.1001 =		\$2,443.67		
135	16181	1221	EA	30 Amp, 250 Volt, Current Limiting Fuse RK1, Ferrule Type						\$82.24
				Quantity	Unit Price	Factor		Total		
			Installation	6.00 x	12.46 x	1.1001 =		\$82.24		
136	16190	1111	EA	One Hole Steel Conduit Strap, 1/2"						\$207.92
				Quantity	Unit Price	Factor		Total		
			Installation	350.00 x	0.54 x	1.1001 =		\$207.92		
137	16190	1111 1501	EA	For Work In Restricted Working Space, Add						\$3.96
				Quantity	Unit Price	Factor		Total		
			Installation	30.00 x	0.12 x	1.1001 =		\$3.96		
138	16190	1112	EA	One Hole Steel Conduit Strap, 3/4"						\$19.14
				Quantity	Unit Price	Factor		Total		
			Installation	30.00 x	0.58 x	1.1001 =		\$19.14		
139	16190	1112 1501	EA	For Work In Restricted Working Space, Add						\$3.96
				Quantity	Unit Price	Factor		Total		
			Installation	30.00 x	0.12 x	1.1001 =		\$3.96		
140	16190	2615	EA	2-BR-B, Bridle Ring, 1/2"						\$3.91
				Quantity	Unit Price	Factor		Total		
			Installation	5.00 x	0.71 x	1.1001 =		\$3.91		
141	16190	2616	EA	2-BR-12, Bridle Ring, 3/4"						\$3.96
				Quantity	Unit Price	Factor		Total		
			Installation	5.00 x	0.72 x	1.1001 =		\$3.96		
142	16190	3103	EA	1/4" x 4" Toggle Bolt, Including Drilling In Concrete, CMU, Wood Or Steel						\$96.81
				Quantity	Unit Price	Factor		Total		
			Installation	80.00 x	1.10 x	1.1001 =		\$96.81		
143	16190	3205	EA	3/8-16" x 2" Machine Screw, Drilled In Concrete, CMU, Wood Or Steel						\$737.95
				Quantity	Unit Price	Factor		Total		
			Installation	430.00 x	1.56 x	1.1001 =		\$737.95		
144	16190	4801	EA	1/4" Multi-Set Anchor 1" Min Depth In Concrete						\$187.79
				Quantity	Unit Price	Factor		Total		
			Installation	30.00 x	5.69 x	1.1001 =		\$187.79		
145	16190	4801 9911	EA	For Work In Restricted Working Space, Add						\$0.00
				Quantity	Unit Price	Factor		Total		
			Installation	0.00 x	1.65 x	1.1001 =		\$0.00		
146	16431	1021	EA	Ground Fault Monitor / Test Panel Test Without Tripping						\$1,882.82
				Quantity	Unit Price	Factor		Total		
			Installation	6.00 x	285.25 x	1.1001 =		\$1,882.82		

**Proposal Review - CSI Detail (Continued)**

**Job Order Number:** 05644.01  
**Job Order Name:** SA/PD - First Floor HVAC  
**Review:** SAPD AHU Replacement - 3/25/2009 3:12:39PM

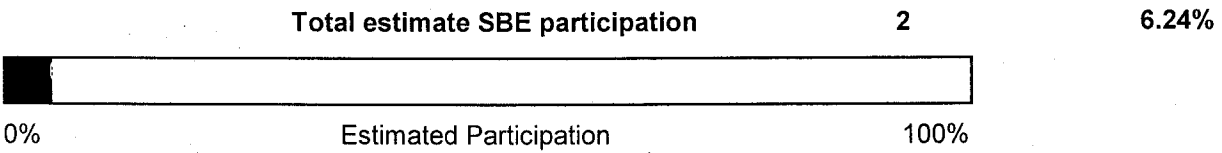
147	16775	1071	EA	Lightning Protection Plus Stainless Steel Modules, Siemon				\$726.20
				Quantity		Unit Price	Factor	Total
			Installation	2.00	x	330.06	x	\$726.20
Subtotal for 16								\$71,869.66
Proposal Review Total								\$458,168.77

This job order proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

<b>DATE</b> March 30, 2009	<b>GC 06 - SBE Estimate</b>	
<b>Job#</b> 05644.01 <b>Loc#</b> 602	<b>State Attorney Building</b> <b>SA/PD - First Floor HVAC</b>	
<b>SUBMITTED BY</b>	M.A.C. Construction, Inc. 9500 N.W. 12 Street Miami, FL 33172	Contract: R-2007-0949 Awarded: 06/19/2008

Proposal Value:     **\$ 458,168.77**

Contractor/Sub-Contractor	Trade	SBE Status	SBE \$	% of Job
Andrea Construction		SBE-Non MWBE	1,985.00	1,985.00
Knight Electric Co. Inc.		SBE-Non MWBE	26,600.00	26,600.00



ATTACHMENT #3



# BUDGET AVAILABILITY STATEMENT

REQUEST DATE: 03/12/09

REQUESTED BY: ALLEN PADILLA

PHONE: 233-2053

PROJECT TITLE: SAPD AHU Replacement  
PROJECT NO.: 05644.01

WO# 2750608

LOCATION: 401 North Dixie Highway

LOCATION DESCRIPTION: State Attorney Building

BUILDING NUMBER: 602

CONTRACTOR/CONSULTANT NAME: MAC Construction

PROVIDE A BRIEF STATEMENT OF THE SCOPE OF SERVICES TO BE PROVIDED BY THE CONSULTANT/CONTRACTOR: Provide labor and material required to remove and replace two air handling units on the 1<sup>st</sup> floor of the State Attorney Building. All work per the approved plans.

WILL THIS AMENDMENT CHANGE THE ESTIMATED COST OF THE PROJECT?

IF YES, PROVIDE ESTIMATES OF THE NEW COSTS:

CONSTRUCTION	458,203.20	
ARCHITECTURE/ENGINEER	6,873.05	1.5% WORK ORDER AMOUNT FOR TGG FEE
STAFF COSTS*	<del>22,918.18</del>	<i>K Sykes</i>
EQUIPMENT/OTHER	0.00	
CONTINGENCY	45,820.32	
TOTAL	<del>533,806.73</del>	
	\$ 510,896.57	

\*By signing this BAS your department agrees to these staff costs and your account will be charged upon receipt of this BAS by FD&O. Unless there is a change in the scope of work, no additional staff charges will be billed.

BUDGET ACCOUNT NUMBERS (IDENTIFY ALL SOURCES) FUNDING SOURCE (CHECK ALL THAT APPLY)

FUND:	AGENCY:	ORG:	OBJ:	SUBOBJ:
3804-411-13386	4907		254,440	✓
3804-411-13440	4907		100,000	✓
3804-411-13233	4610		156,456.57	✓
✓ AD VALOREM <input type="checkbox"/> OTHER <input type="checkbox"/> FEDERAL/DAVIS BACON				

SUPPLEMENTAL AGREEMENT TO BE APPROVED BY: Department Director (WO<\$50,000)

ANTICIPATED DATE OF APPROVAL: ASAP

BAS APPROVED BY: *Kan Sykes*

DATE: 3/17/09

ENCUMBRANCE NUMBER: \_\_\_\_\_

ATTACHMENT # 4