



ITB #:	<u>19-056T</u>	Tentative Board Meeting Date*:	<u>9/4/2019</u>	
ITB Title:	<u>BUILDING MANAGEMENT AND SECURITY SYSTEMS</u>	# Notified:	<u>1009</u>	# Downloaded: <u>28</u>
		# of Responses Rec'd:	<u>2</u>	# of "No Bids": <u>0</u>
For:	<u>ENVIRONMENTAL HEALTH &amp; SAFETY</u> (School/Department)	RFP Opening Date :	<u>7/18/2019</u>	
Fund:	<u>ENVIRONMENTAL HEALTH &amp; SAFETY BUDGET</u>	Advertised Date:	<u>6/19/2019</u>	

**POSTING OF Select One RECOMMENDATION/TABULATION:** Select One Recommendations and Tabulations will be posted in the Procurement & Warehousing Services and [www.Demandstar.com](http://www.Demandstar.com) on **JULY 29, 2019 @ 3:00 pm** and will remain posted for 72 hours. Any person who is adversely affected by the decision or intended decision shall file a notice of protest, in writing, within 72 hours after the posting of the notice of decision or intended decision. The formal written protest shall be filed within ten (10) days after the date the notice of protest is filed. Failure to file a notice of protest or failure to file a formal written protest shall constitute a waiver of proceedings under this chapter. Section 120.57(3)(b), Florida Statutes, states that "The formal written protest shall state with particularity the facts and law upon which the protest is based." Saturdays, Sundays, state holidays and days during which the District is closed shall be excluded in the computation of the 72-hour time period provided. Filings shall be at the office of the Director of Procurement & Warehousing Services, 7720 West Oakland Park Boulevard, Suite 323, Sunrise, Florida 33351. Any person who files an action protesting an intended decision shall post with the School Board, at the time of filing the formal written protest, a bond, payable to The School Board of Broward County, Florida, (SBBC), in an amount equal to one percent (1%) of the estimated value of the contract. Failure to post the bond required by SBBC Policy 3320, Part VIII, Purchasing Policies, Section N, within the time allowed for filing a bond shall constitute a waiver of the right to protest.

(\* The Cone of Silence, as stated in the ITB / RFP / RFQ / HARD BID, is in effect until it is approved by SBBC. The Board meeting date stated above is tentative. Confirm with the Purchasing Agent of record for the actual date the Cone of Silence has concluded.

**RECOMMENDATION TABULATION**

**VENDOR NAME(s)**

**ITEM(s) AWARDED**

DESIGN CONTROLS INC. dba DCI SYSTEMS GROUP

GROUP 2 – JOHNSON CONTROLS

MRSE LLC dba ROTH SOUTHEAST

GROUP 1 – SCHNEIDER ELECTRIC  
GROUP 3 – VARIOUS MANUFACTURERS

CONTRCT PERIOD: OCTOBER 21, 2019 THROUGH OCTOBER 31, 2022

By: Edgar Lugo (Purchasing Agent) Date: 7/29/2019

The School Board of Broward County, Florida, prohibits any policy or procedure which results in discrimination on the basis of age, color, disability, gender expression, national origin, marital status, race, religion, sex or sexual orientation. Individuals who wish to file a discrimination complaint, may call the Executive Director, Benefits & EEO Compliance at 754-321-2150 or Teletype Machine (TTY) at 754-321-2158.

Individuals with disabilities requesting accommodations under the Americans with Disabilities Act (ADA) may call the Equal Educational Opportunities (EEO) at 754-321-2150 or Teletype Machine (TTY) at 754-321-2158.

**Group 1 - Schneider Electric**

Estimated QTY	Manufacturer	Part Number	Description	Unit Price	Total Price
1	Schneider Electric	LAN-INJ-P-USB	Continuum LAN Software, Integrated, up to 1,000 I/O points	\$ 3,850.00	\$ 3,850.00
1	Schneider Electric	WEBC-10-PRO-USB	Web.Client Pro, up to 10 Users	\$ 6,600.00	\$ 6,600.00
3	Schneider Electric	BCX1-CR-8-INF	bCX1 Network Controller,10/100bT,exp port, 8 Inf Node	\$ 2,835.00	\$ 8,505.00
1	Schneider Electric	BCX1-CR-32-INF	bCX1 Network Controller,10/100bT,exp port, 32 Inf Node	\$ 5,225.00	\$ 5,225.00
3	Schneider Electric	BCX1-CR-64-INF	bCX1 Network Controller,10/100bT,exp port, 64 Inf Node	\$ 5,780.00	\$ 17,340.00
3	Schneider Electric	BCX1-CR-127-INF	bCX1 Network Controller,10/100bT,exp port, 127 Inf Node	\$ 6,000.00	\$ 18,000.00
2	Schneider Electric	NC2-R-127000000	NetController II, RS485 I/O Bus Interface	\$ 11,200.00	\$ 22,400.00
3	Schneider Electric	PS120/240-AC85U-A	NetController power supply, with UPS Circuit	\$ 600.00	\$ 1,800.00
10	Schneider Electric	01-2100-423	12V Battery (2 required for NetController PSU, 1 for CX 9702)	\$ 81.00	\$ 810.00
2	Schneider Electric	AC-1-A	Access Control module, 1 Wiegand rdr input, 3 inputs, 2 outputs	\$ 426.00	\$ 852.00
5	Schneider Electric	LD-1	Local Display module, 4 x 16 char display, backlit, 19 buttons	\$ 447.00	\$ 2,235.00
4	Schneider Electric	xPUI4-A	xPUI4 - 4 Universal Inputs	\$ 294.00	\$ 1,176.00
6	Schneider Electric	xPDI8-S	xPDI8 - 8 Digital Inputs - W/ Smoke	\$ 294.00	\$ 1,764.00
5	Schneider Electric	xPDO4-S	xPDO4 - 4 Digital Outputs with override switches - W/ Smoke	\$ 471.00	\$ 2,355.00
5	Schneider Electric	xPAO2-A	xPAO2 - 2 Analog Outputs with override switches	\$ 250.00	\$ 1,250.00
5	Schneider Electric	xPAO4-A	xPAO4 - 4 Analog Outputs with override switches	\$ 471.00	\$ 2,355.00
4	Schneider Electric	xP-Display-10	xP-Display - Remote Displ. Mod. - 4 line x 16 characters, keypad, 10 Ft Cable	\$ 440.00	\$ 1,760.00
10	Schneider Electric	i2920	i2920, 16 UI, 8 DO, 8AO, 1 Smart Sensor/Rm Sens Input, Exp Port	\$ 3,500.00	\$ 35,000.00
30	Schneider Electric	i2810	i2810, 8 UI, 8 DO w/overrides, 1 Smart Sensor/Rm Sensor Input, Exp Port	\$ 1,519.00	\$ 45,570.00
3	Schneider Electric	i2814	i2814, 8 UI, 4 DO, 4 AO w/overrides, 1 Smart Sensor/Rm Sens In, Exp Port	\$ 1,636.00	\$ 4,908.00
10	Schneider Electric	i2800	i2800, 8 UI, 8 DO, 1 Smart Sensor/Rm Sensor Input	\$ 1,049.00	\$ 10,490.00
20	Schneider Electric	i2804	i2804, 8 UI, 4 DO, 4 AO, 1 Smart Sensor/Rm Sensor Input	\$ 1,170.00	\$ 23,400.00
15	Schneider Electric	i2608	i2608, 8 Universal Inputs	\$ 468.00	\$ 7,020.00
20	Schneider Electric	i2624	i2624, 24 Universal Inputs	\$ 935.00	\$ 18,700.00
20	Schneider Electric	i2865-V	i2865-V, 4 UI, 1 Airflow, 1 IBS Actuator, 3 FA Triac Out, 1 Sm/Rm Sens In	\$ 378.00	\$ 7,560.00
6	Schneider Electric	i2850	i2850, 4 UI, 1 Airflow, 3 FA Relay,1 Tristate Out,1 Sm/Rm Sens In,Exp Port	\$ 420.00	\$ 2,520.00
3	Schneider Electric	i2853	i2853, 4 UI, 2 Airflow, 3 FA Relay,1 Tristate Out,1 Sm/Rm Sens In,Exp Port	\$ 535.00	\$ 1,605.00
20	Schneider Electric	i2867	i2867, 4 UI, 1 Sm/Rm Sens In, 5 Triac Out, 2 AO	\$ 420.00	\$ 8,400.00
5	Schneider Electric	i2851	i2851, 4 UI, 3 FA Relay, 1 Tristate Out, 1 Sm/Rm Sens In, Exp Port	\$ 398.00	\$ 1,990.00
8	Schneider Electric	i2200ac-S	i2200 Infilink Repeater, 120/240VAC - W/ Smoke	\$ 819.00	\$ 6,552.00
2	Schneider Electric	<del>ACX-2-0000000</del>	<del>ACX 5720, 4 readers, 6 in, 2 DO, 10/100bT, 0 Infinet nodes, no options</del> N/A		\$ -
2	Schneider Electric	BCX1-CR-0	bCX1 BACnet Controller/Router,10/100bT,0 MS/TP Nodes,10-28VDC/24VAC,	\$ 2,000.00	\$ 4,000.00
1	Schneider Electric	BCX1-CR-32	bCX1 BACnet Controller/Router,10/100bT,32 MS/TP Nodes,10-28VDC/24VAC,	\$ 3,790.00	\$ 3,790.00
1	Schneider Electric	BCX1-CR-64	bCX1 BACnet Controller/Router,10/100bT,64 MS/TP Nodes,10-28VDC/24VAC,	\$ 5,502.00	\$ 5,502.00
1	Schneider Electric	BCX1-CR-127	bCX1 BACnet Controller/Router,10/100bT,127 MS/TP Nodes,10-28VDC/24VAC,	\$ 6,503.00	\$ 6,503.00
3	Schneider Electric	b3920	b3920, 16 UI, 8 DO, 8AO, 1 Smart Sensor/Rm Sens Input, Exp Port	\$ 2,882.00	\$ 8,646.00
5	Schneider Electric	b3810	b3810, 8 UI, 8 DO w/overrides, 1 Smart Sensor/Rm Sensor Input, Exp Port	\$ 1,430.00	\$ 7,150.00
2	Schneider Electric	b3814	b3814, 8 UI, 4 DO, 4 AO w/overrides, 1 Smart Sensor/Rm Sens In, Exp Port	\$ 1,540.00	\$ 3,080.00
3	Schneider Electric	b3800	b3800, 8 UI, 8 DO, 1 Smart Sensor/Rm Sensor Input	\$ 990.00	\$ 2,970.00
3	Schneider Electric	b3804	b3804, 8 UI, 4 DO, 4 AO, 1 Smart Sensor/Rm Sensor Input	\$ 1,100.00	\$ 3,300.00

Group 1 - Schneider Electric					
Estimated QTY	Manufacturer	Part Number	Description	Unit Price	Total Price
3	Schneider Electric	b3608	b3608, 8 Universal Inputs	\$ 440.00	\$ 1,320.00
3	Schneider Electric	b3624	b3624, 24 Universal Inputs	\$ 880.00	\$ 2,640.00
3	Schneider Electric	b3624-A	b3624, 24 Universal Inputs	\$ 880.00	\$ 2,640.00
2	Schneider Electric	b3865-v	b3865-V, 4 UI, 1 Airflow, 1 IBS Actuator, 3 FA Triac Out, 1 Sm/Rm Sens In	\$ 360.00	\$ 720.00
2	Schneider Electric	b3865-V-A	b3865-V, 4 UI, 1 Airflow, 1 IBS Actuator, 3 FA Triac Out, 1 Sm/Rm Sens In	\$ 360.00	\$ 720.00
2	Schneider Electric	b3867	b3867, 4 UI, 1 Sm/Rm Sens In, 5 Triac Out, 2 AO	\$ 400.00	\$ 800.00
3	Schneider Electric	B-LINK-AC	BACnet MS/TP Repeater, 120/240VAC	\$ 770.00	\$ 2,310.00
3	Schneider Electric	B-LINK-DC-S	BACnet MS/TP Repeater, 120/240VAC	\$ 770.00	\$ 2,310.00
5	Schneider Electric	SmartX Controller - AS-P	AS Automation Server: BACnet and LON compatibility SXWASPXXX10001	\$ 2,830.62	\$ 14,153.10
5	Schneider Electric	SmartX Controller - AS-B-24H	SmartX Controller - AS-B-24H, SXWASB24H10001, 24, I/O, manual override, BACnet MS/TP, ModbusSmartX Controller SXWASB24H10001	\$ 2,476.16	\$ 12,380.80
5	Schneider Electric	SmartX Controller - AS-B-36HL	SmartX Controller - AS-B-36HL, SXWASB36H10002, 36 I/O, manual override SXWASB36H10002	\$ 2,498.21	\$ 12,491.05
5	Schneider Electric	Bundled 10 inch Advanced Display	SMARTX CONTROLLER AD V2 SXWADBUND10002	\$ 1,075.26	\$ 5,376.30
12	Schneider Electric	MP-C 15A	SmartX IP Controller, MP-C, BACnet/IP, 15 Points, 8 Universal Input/Output Type Ub, 6 Digital Triac Outputs, 1 High Power Relay Output SXWMPC15A10001	\$ 627.52	\$ 7,530.24
12	Schneider Electric	MP-C 18A	SmartX IP Controller, MP-C, BACnet/IP, 18 Points, 10 Universal Input/Output Type Ub, 4 Digital Triac Outputs, 1 High Power Relay Output SXWMPC18A10001	\$ 1,004.03	\$ 12,048.36
10	Schneider Electric	MP-C 18B	SmartX IP Controller, MP-C, BACnet/IP, 18 Points, 10 Universal Input/Output Type Ub, 8 Digital Triac Outputs SXWMPC18B10001	\$ 900.58	\$ 9,005.80
10	Schneider Electric	MP-C 24A	SmartX IP Controller, MP-C, BACnet/IP, 24 Points, 4 Universal Input/Output Type Uc, 4 Form A Relay Outputs, 16 Universal Input/Output Type Ub SXWMPC24A10001	\$ 1,590.85	\$ 15,908.50
10	Schneider Electric	MP-C 36A	SmartX IP Controller, MP-C, BACnet/IP, 36 Points, 8 Universal Input/Output Type Uc, 8 Form A Relay Outputs, 20 Universal Input/Output Type Ub SXWMPC36A10001	\$ 2,135.26	\$ 21,352.60
3	Schneider Electric	OVERRIDE DISPLAY MODULE	SmartX IP Override Display Module, For All MP-C Models SXWMPCDSP10001	\$ 156.03	\$ 468.09
10	Schneider Electric	MP V 7A	SmartX IP Controller, MP-V, BACnet/IP, 7 Points, 3 Universal Inputs, 3 Digital Triac Outputs, 1 Analog Output SXWMPV7AX10001	\$ 366.34	\$ 3,663.40
10	Schneider Electric	MP V 9A	SmartX IP Controller, MP-V, BACnet/IP, 9 Points, 4 Universal Inputs, 3 Digital Triac Outputs, 2 Analog Output SXWMPV9AX10001	\$ 413.82	\$ 4,138.20
3	Schneider Electric	IP-IO - DI10S	SmartX IP-IO Series Input Expander, 10 Digital Inputs SXWIPIOAA10001	\$ 401.95	\$ 1,205.85
3	Schneider Electric	IP-IO-UIO10	SmartX IP-IO Series Input Expander, 10 UNIVERSAL INPUT/OUTPUTS SXWIPIOBA10001	\$ 452.83	\$ 1,358.49
3	Schneider Electric	IP-IO-UIO5DOFA4	SmartX IP-IO Series Output Expander, 5 UNIVERSAL INPUT/OUTPUTS and 4 Digital outputs SXWIPIOCA10001	\$ 502.02	\$ 1,506.06
1	Schneider Electric	Enterprise Server	EcoStruxure Building Operation Enterprise Central, Hosts And Aggregates Data From 5 Enterprise Servers SXWSWECXX00010	\$ 29,323.84	\$ 29,323.84
1	Schneider Electric	Enterprise Server	EcoStruxure Building Operation Enterprise Server Upgrade, Up To 250 SmartX Servers SXWSWESUP00250	\$ 5,654.46	\$ 5,654.46

Group 1 - Schneider Electric					
Estimated QTY	Manufacturer	Part Number	Description	Unit Price	Total Price
1	Schneider Electric	Enterprise Server	EcoStruxure Building Operation Enterprise Server, Up To 10 SmartX Servers SXWSWESXX00010	\$ 1,256.74	\$ 1,256.74
1	Schneider Electric	POWER MANAGER	Power Manager software module for EcoStruxure Building Operation to monitor, measure, and optimize your building's power.	\$ 1,088.83	\$ 1,088.83
1	Schneider Electric	WEB SERVICES	EcoStruxure Building Operation Web Services, Serve And Consume For 1 SmartStruxure Server SXWSWEWSX00002	\$ 2,094.56	\$ 2,094.56
* 20	Schneider Electric	SXWTBIOW110001	Terminal Base I/O (Terminal Base required for each I/O module)	\$ 135.68	*2,713.60
2	Schneider Electric	SXWSCABLE10002	S-Cable extension cord for Automation Server I/O bus, Lshaped connectors, 1.5 m	\$ 84.80	\$ 169.60
2	Schneider Electric	SXWASBCON10001	AS-B connector kit for SmartX Controllers, SXWASBCON10001, Screw terminal for all AS-B models	\$ 32.66	\$ 65.32
10	Schneider Electric	SXWTBASW110002	Terminal Base for AS-P	\$ 47.49	\$ 474.90
20	Schneider Electric	SXWPS24VX10001	Power Supply 24 VAC or 21-30 VDC	\$ 135.68	\$ 2,713.60
20	Schneider Electric	SXWTBPSW110001	Terminal Base Power Supply (Terminal Base required foreach power supply)	\$ 47.49	\$ 949.80
<b>ESTIMATED TOTAL BID</b>				<b>\$</b>	<b>496,771.49</b>

\*Formula did not calculate in the cell, bid summary sheet is protected and could not change on the excel sheet.

**Add:** 2,713.60  
**Estimated Toal Bid:** 499,485.09

Group 2 - Johnson Controls					
Estimated QTY	Manufacturer	Part Number	Description	Unit Price	Total Price
4	Johnson Controls	MS-NAE3514-2	Web Based Supervisory Front End Controller, Up to 50 Bacnet MS/TP Devices	\$ 2,612.02	\$ 10,448.08
2	Johnson Controls	MS-NAE4510-2	Web Based Supervisory Front End Controller, Up to 100 Bacnet MS/TP Devices	\$ 7,085.56	\$ 14,171.12
2	Johnson Controls	MS-NAE5510-1	Web Based Supervisory Front End Controller, Up to 200 Bacnet MS/TP Devices	\$ 12,872.80	\$ 25,745.60
1	Johnson Controls	MS-ADS05U-0	Server Software, 5 Concurrent Users	\$ 8,536.83	\$ 8,536.83
1	Johnson Controls	MS-ADS10U-0	Server Software, 10 Concurrent Users	\$ 12,696.24	\$ 12,696.24
6	Johnson Controls	EN-EWC25-0,	NAE-35 or 45 Supervisory Controller Enclosure, 16"x16" 9", With 50VA Transformer, Outlet	\$ 437.20	\$ 2,623.20
2	Johnson Controls	EN-EWC35-0	NAE-55 Supervisory Controller Enclosure, With 50VA Transformer, Outlet	\$ 663.16	\$ 1,326.32
15	Johnson Controls	EN-EWC15-0	Field Controller Enclosure, 9" x 16" x 9", With 50VA Transformer, Outlet	\$ 401.58	\$ 6,023.70
30	Johnson Controls	MS-FEU 1610-0	Field Controller, Bacnet MS/TP Communications, 10 Points	\$ 383.57	\$ 11,507.10
30	Johnson Controls	MS-FEU 1620-0	Field Controller, Bacnet MS/TP Communications, 17 Points	\$ 618.24	\$ 18,547.20
5	Johnson Controls	MS-FEU 2620-0	Field Controller, Bacnet MS/TP Communications, 10 Points With Digital Display	\$ 785.39	\$ 3,926.95
5	Johnson Controls	MS-FEU 2620-0	Field Controller, Bacnet MS/TP Communications, 17 Points With Digital Display	\$ 785.39	\$ 3,926.95
25	Johnson Controls	MS-VMA 1620-0	VAV Box Controller, With Heating Outputs, With Integrated Actuator And DP Transmitter	\$ 337.70	\$ 8,442.50
50	Johnson Controls	MS-VMA 1610-0	VAV Box Controller, Cool Only, With Integrated Actuator And DP Transmitter	\$ 356.56	\$ 17,828.00
5	Johnson Controls	MS-IOM1710-0	Input/Output Module, 4 BI	\$ 245.54	\$ 1,227.70
5	Johnson Controls	MS-IOM2710-0	Input/Output Module, 2 Input, 4 Output	\$ 306.91	\$ 1,534.55
5	Johnson Controls	MS-IOU4710-0	Input/Output Module, 8 Input, 9 Output	\$ 418.84	\$ 2,094.20
10	Johnson Controls	M9106-AGA-2	2-Position, 53 lb.in., 24Vac	\$ 96.35	\$ 963.50
10	Johnson Controls	M9108-AGA-2	2-Position, 70 lb.in., 24Vac	\$ 150.96	\$ 1,509.60
10	Johnson Controls	M9116-AGA-2	2-Position, 140 lb.in., 24Vac	\$ 346.94	\$ 3,469.40
10	Johnson Controls	M9124-AGA-2	(For Dampers Up To 14 Sq Ft) Position, 210 lb.in., 24Vac	\$ 407.31	\$ 4,073.10
10	Johnson Controls	M9116-AGA-2	(For Dampers Up To 21 Sq Ft, Face & Bypass Actuators) 2-Position, 140 lb.in., 24Vac	\$ 346.94	\$ 3,469.40
10	Johnson Controls	M9116-AGA-2	(For Dampers Up To 14 Sq Ft), Spring Return Modulating, 140 lb.in., 0-10VDC Input Signal	\$ 346.94	\$ 3,469.40
10	Johnson Controls	M9124-AGA-2	Modulating, 210 lb.in., 0-10VDC Input Signal	\$ 407.31	\$ 4,073.10
25	Johnson Controls	TE-6321M-1	Duct Mount Temperature Sensor, Platinum 1KOhm, Metal Box	\$ 18.35	\$ 458.75
5	Johnson Controls	TE-6323P-1	Outdoor Air Temperature Sensor, Platinum 1KOhm, Plastic	\$ 55.34	\$ 276.70
20	Johnson Controls	TE-6322M-1	W/WZ-1000 Well Insertion Temperature Sensor,	\$ 20.27	\$ 405.40
35	Johnson Controls	TE-6311V-2	Duct Mount With 5' Whip	\$ 18.32	\$ 641.20
25	Johnson Controls	HE-67N3-0N00P	For VAV Box Supply Air Sensing , Duct Mount Temperature/Humidity Sensor,0-10VDC Output, Nickel Temp. Sensor	\$ 238.22	\$ 5,955.50
5	Johnson Controls	HT-67P3-0N0GO	Outdoor Air Temperature/Humidity	\$ 801.24	\$ 4,006.20
10	Johnson Controls	NS-DTN7083-0	Duct Mount Temperature Sensor,Bacnet SA Bus Compatible	\$ 100.12	\$ 1,001.20
20	Johnson Controls	DPT2640-005D	Dry Differential Pressure Transmitter, 0-5"wc, 0-5VDC Output	\$ 174.95	\$ 3,499.00
5	Johnson Controls	DPT2300-100D	Wet Differential Pressure Transmitter, 0-100PSID, 0-5VDC Output	\$ 450.77	\$ 2,253.85
15	Johnson Controls	P32AC-2C	Diferential Presure Swith, 0-5"wc	\$ 85.08	\$ 1,276.20

## Group 2 - Johnson Controls

Estimated QTY	Manufacturer	Part Number	Description	Unit Price	Total Price
50	Johnson Controls	CSD-SF0C0-1	On/Off Current Operated Fan Status Switch	\$ 34.27	\$ 1,713.50
15	Johnson Controls	CSD-SA1E0-1	Adjustable Current Operated Fan Status Switch	\$ 47.80	\$ 717.00
15	Johnson Controls	CSD-CF0A0-1	Adjustable Current Operated Fan Status Switch, Split Core	\$ 43.93	\$ 658.95
30	Johnson Controls	CD-P00-00-0	Duct Mount Carbon Dioxide Sensor, 0-2000 PPM, 0-10VDC Output	\$ 616.36	\$ 18,490.80
1	Johnson Controls	VG1841xx+906GGA*	3-Way Control Valve Whith Modulating Actuator, Brass Trim		\$ -
5	Johnson Controls	VG1841xx+906GGA*	3-Way Control Valve Whith Modulating Actuator, Brass Trim, 1/2" valve	\$ 290.23	\$ 1,451.15
5	Johnson Controls	VG1841xx+906GGA*	3-Way Control Valve Whith Modulating Actuator, Brass Trim, 3/4" valve	\$ 314.27	\$ 1,571.35
5	Johnson Controls	VG1841xx+906GGA*	3-Way Control Valve Whith Modulating Actuator, Brass Trim, 1" valve	\$ 337.14	\$ 1,685.70
5	Johnson Controls	VG1841xx+906GGA*	3-Way Control Valve Whith Modulating Actuator, Brass Trim, 1 1/4" valve	\$ 418.05	\$ 2,090.25
10	Johnson Controls	VG1841xx+906GGA*	3-Way Control Valve Whith Modulating Actuator, Brass Trim, 1 1/2" valve	\$ 503.66	\$ 5,036.60
10	Johnson Controls	VG1841xx+906GGA*	3-Way Control Valve Whith Modulating Actuator, Brass Trim, 2" valve	\$ 677.79	\$ 6,777.90
1	Johnson Controls	VG1241xx+906GGA*	2-Way Control Valve Whith Modulating Actuator		\$ -
5	Johnson Controls	VG1241xx+906GGA*	2-Way Control Valve Whith Modulating Actuator, 1/2" valve	\$ 278.78	\$ 1,393.90
5	Johnson Controls	VG1241xx+906GGA*	2-Way Control Valve Whith Modulating Actuator, 3/4" valve	\$ 297.86	\$ 1,489.30
5	Johnson Controls	VG1241xx+906GGA*	2-Way Control Valve Whith Modulating Actuator, 1" valve	\$ 307.24	\$ 1,536.20
5	Johnson Controls	VG1241xx+906GGA*	2-Way Control Valve Whith Modulating Actuator, 1 1/4" valve	\$ 340.07	\$ 1,700.35
10	Johnson Controls	VG1241xx+906GGA*	2-Way Control Valve Whith Modulating Actuator, 1 1/2" valve	\$ 385.12	\$ 3,851.22
10	Johnson Controls	VG1241xx+906GGA*	2-Way Control Valve Whith Modulating Actuator, 2" valve	\$ 437.77	\$ 4,377.70
5	Johnson Controls	TEC2601-2*	Single Stage Unit With Bacnet MS/TP Communication Interface	\$ 359.76	\$ 1,798.80
2	Johnson Controls	TEC2602-2*	Heat Pump Unit Bacnet MS/TP Communication Interface	\$ 359.76	\$ 719.52
2	Johnson Controls	TEC2603-2*	Multi Stage Unit With Bacnet MS/TP Communication Interface	\$ 359.76	\$ 719.52
10	Johnson Controls	T26S-18C*	Line Voltage Thermostat With Local Adjustment	\$ 92.98	\$ 929.80

\*Or Equivalent

ESTIMATED TOTAL BID \$ 250,117.25

Group 3 - Various Manufacturers					
Estimated QTY	Manufacturer	Part Number	Description	Unit Price	Total Price
10	APC	UPSBE550G	<del>UPSBB-400VA</del> APC 400 UPS BACKUP — Replaced by APC BACK-UPS 550 (Listed Below)		-
10	APC	UPSBE550G	APC BACK-UPS 550	\$ 150.00	\$ 1,500.00
10	Edco	SLCP43	EE-SUPSCL 120VAC SURGE PROTECTOR	\$ 75.00	\$ 750.00
10	Edco	PC642C-015-LC	PC642C-015 DATA SURGE PROTECTOR	\$ 130.00	\$ 1,300.00
20	Kele & Associates	KE900D24VAC	KE900D24VAC DPDT RELAY	\$ 42.00	\$ 840.00
20	Kele & Associates	KE900D120VAC	KE900D120VAC DPDT RELAY	\$ 42.00	\$ 840.00
10	Kele & Associates	DCP-1.5-W	DCP1.5 POWER SUPPLY	\$ 31.00	\$ 310.00
10	Mamac	ETD500-8	TE702B7C DUCT TEMP SENSOR	\$ 21.00	\$ 210.00
40	Precon	ST-W3E-XLT	ST-W3E-XLT IMMERSION SENSOR (EXCLUDES BRA	\$ 32.00	\$ 1,280.00
40	Precon	WEL-B	BRASS WELL FOR ST-W3E-XLT IMMERSION SENSO	\$ 33.00	\$ 1,320.00
5	Precon	ST-R3SC	ST-R3SC STRAP 10K FREEZER SENSOR	\$ 26.00	\$ 130.00
5	Precon	ST-R42S	ST-R42S STRAP 20K FREEZER SENSOR	\$ 20.00	\$ 100.00
25	Precon	ST-D3	ST-D3 DUCT TEMP SENSOR	\$ 13.25	\$ 331.25
10	Precon	ST-S3P	ST-3P TEMP SENSOR	\$ 13.25	\$ 132.50
5	Precon	ST-S3	ST-S3 TEMP SENSOR	\$ 16.60	\$ 83.00
8	Precon	KHR5-T3	LCH-R RH SENSOR	\$ 124.00	\$ 992.00
5	RIB	TR100VA001	LE121 100VA TRANSFORMER	\$ 30.00	\$ 150.00
5	RIB	TR150VA001	LE124 150VA TRANSFORMER	\$ 60.00	\$ 300.00
10	Veris	EHD110-500	ZVD-3-V-AC DUCT RH SENSOR	\$ 125.00	\$ 1,250.00
10	Veris	HWX3XSTH	ZVW-10K-3-V-AC WALL T/RH SENSOR	\$ 145.00	\$ 1,450.00
12	Veris	H701	H701 CURRENT TRANSDUCER	\$ 33.00	\$ 396.00
12	Veris	H221	H221 CURRENT TRANSDUCER	\$ 155.00	\$ 1,860.00
40	Veris	VMD2B-F24A	RH2B-ULAC24V CUBE RELAY	\$ 8.00	\$ 320.00
40	Veris	VBD2B-C	SH2B-05 RELAY BASE	\$ 5.50	\$ 220.00
6	Veris	PXUXX05S	ZVPXP010-AC DIFF PRESSURE	\$ 189.00	\$ 1,134.00
20	Veris	H800	ZVH-800 CURRENT TRANSDUCER	\$ 17.00	\$ 340.00
				<b>ESTIMATED TOTAL BID</b>	<b>\$ 17,538.75</b>

**Group 2 - Labour - Johnson Controls Metasys Energy Management System**

Estimated Hours	Description	Time	MRSE LLC dba Roth Southeast (Hourly Rate)	Design Controls Inc. dba DCI Systems Group (Hourly Rate)
100	Metasys EMS Field Technician	Normal SBBC Business Hours, 7 am to 4:30 pm, Weekdays	\$ 108.00	\$ 135.00
50	Metasys NAE Workstation Programmer	Normal SBBC Business Hours, 7 am to 4:30 pm, Weekdays	\$ 108.00	\$ 165.00

**Group 1 - Labour - T.A.C Andover Continuum Energy Management System**

Estimated Hours	Description	Time	Hourly Rate	Hourly Rate2
300	Continuum WMS Field Technician	Normal SBBC Business Hours, 7 am to 4:30 pm, Weekdays	\$ 108.00	
100	T.A.C Continuum Programmer	Normal SBBC Business Hours, 7 am to 4:30 pm, Weekdays	\$ 108.00	

**Group 3 - Labour - Other**

Estimated Hours	Description	Time	Hourly Rate	Column1
N/A	HVAC Technician	Overtime, weekend, holiday, and after hours	\$ 162.00	\$ 165.00
N/A	HVAC Technician Helper	Overtime, weekend, holiday, and after hours	\$ 162.00	\$ 90.00
N/A	HVAC Technician	Emergency Call Back	\$ 108.00	\$ 165.00
N/A	HVAC Technician Helper	Emergency Call Back	\$ 95.00	\$ 90.00