

TOWN OF WEST SENECA



ENGINEERING DEPARTMENT

TOWN SUPERVISOR
SHEILA M. MEEGAN
TOWN COUNCIL
EUGENE P. HART
WILLIAM P. HANLEY JR.

June 30, 2017

Honorable Town Board
Town of West Seneca

RE: Mechanical System Controls – West Seneca Community Center and Library

Honorable Board Members,

As indicated in the contract documents for the West Seneca Community Center and Library project, the controls systems for the mechanical systems are to be purchased off of state bid for the portion of the building not included in the EPC. Attached is the pricing based off of state bid for that work. This was done this way to ensure that the controls system matches the software and controls for the entire building and to ensure that the controls would be similar to those the Town is already familiar with. Please authorize the supervisor to sign documents necessary to enter into contract with U and S Services in the amount of \$110,695.08 for the controls system hookup and programming.

Feel free to contact me if you have any questions.

Very truly yours,

Steven R. Tanner, P.E.

cc. Files: TB
Project

Temperature Controls Proposal

Date: May 30, 2017
Subject: West Seneca Community Center
From: John Stuber

We are pleased to outline for your consideration our proposal relative to the above referenced subject project. Our proposal is based on plans and specification sections #230900 "Instrumentation and Controls for HVAC" as prepared by Clark Patterson Lee. Included in this proposal are the following items:

Installation of Schneider Electric Direct Digital Control (DDC) system complete with the following:

- System Engineering
- Control Wiring
- Controller Programming
- Graphic Programming
- Start-up, Checkout, and Commissioning.

DDC Controls installation for the following equipment:

- (3) Rooftop Units: RTU-1,2,3
- (20) Air Terminal Units: VAV
- (3) Rooftop Hot Water Coils: HWC-1,2,3
- (1) Ductless Split Systems: SSI-1/SSO-1
- (4) Cabinet Unit Heaters: CUH-1,2,3,4
- (5) Finned Tube Radiation Loops
- (3) Exhaust Fans: EF-1,2,3

NYS CONTRACT PRICING ITEMS

Manufacturer	Qty	Part Number	Description	List Price	Discount	NYS Contract Price	
ACI	19	ACI-592-10K-D-8	8" Duct Sensor with Box	\$ 60.00	50.0%	\$ 30.00	\$ 570.00
ACI	6	ACI-592-10K-D-8	8" Duct Sensor with Box	\$ 60.00	50.0%	\$ 30.00	\$ 180.00
ACI	10	ACI-34-I-2.5	2.5" Immersion Sensor with Stainless Steel Well	\$ 137.00	50.0%	\$ 68.50	\$ 685.00
ACI	6	ACI-10K-CSI-SP-RS232	10k Ohm Dale Therm, Stainless Plate with RS232 Jack	\$ 43.00	50.0%	\$ 21.50	\$ 129.00
ACI	17	ACI-592-RO	Room w / Override Button	\$ 60.00	50.0%	\$ 30.00	\$ 510.00
ANDOVER	19	b3866-V	b3866-V, 4 UI, 1 Airflow, 1 IBS Act., 3 FA Triac Out, 2 AO, 1 Sm/Rm Sens In	\$ 806.00	67.5%	\$ 261.95	\$ 4,977.05
ANDOVER	4	b3920	b3920, 16 UI, 8 DO, 8AO, 1 Smart Sensor/Rm Sens Input, Exp Port	\$ 5,323.00	67.5%	\$ 1,729.98	\$ 6,919.90
ANDOVER	1	B-LINK-AC-S	BA Cnet b-Link MS/TP Repeater - uses 115/230 VAC Power (switch-selectable), UL Smoke Control	\$ 1,607.00	67.5%	\$ 522.28	\$ 522.28
ANDOVER	1	xPDI8	xPDI8 - 8 Digital Inputs	\$ 589.00	67.5%	\$ 191.43	\$ 191.43
APC	3	DPS-50	DIFFERENTIAL PRESSURE SWITCH	\$ 249.00	50.0%	\$ 124.50	\$ 373.50
BELIMO	1	B249+AF RB24-SR	CCV, 2", 2 Way, 46 Cv, w / Spring Return, 24V, Modulating	\$ 1,104.00	55.0%	\$ 496.80	\$ 496.80
BELIMO	1	B340+AF RB24-SR	CCV, 1.5", 3 Way, 37 Cv, w / Spring Return, 24V, Modulating	\$ 1,119.00	55.0%	\$ 503.55	\$ 503.55
BELIMO	1	B230+LF2 4-SR US	CCV, 1.25", 2 Way, 19 Cv, w / Spring Return, 24V, Modulating	\$ 703.00	55.0%	\$ 316.35	\$ 316.35
BELIMO	1	B351+AF RX24-MFT	CCV, 2", 3 Way, 68 Cv, w / Spring Return, 24V, MFT	\$ 1,740.00	55.0%	\$ 783.00	\$ 783.00
BELIMO	1	B351+AF RB24-S	CCV, 2", 3 Way, 68 Cv, w / Spring Return, 24V, On/Off, SW	\$ 1,610.00	55.0%	\$ 724.50	\$ 724.50
BELIMO	17	B212+LR B24-SR	CCV, 0.5", 2 Way, 3 Cv, w / Non-Spring, 24V, Modulating	\$ 414.00	55.0%	\$ 186.30	\$ 3,167.10
BELIMO	2	B213+LR B24-SR	CCV, 0.5", 2 Way, 4.7 Cv, w / Non-Spring, 24V, Modulating	\$ 427.00	55.0%	\$ 192.15	\$ 384.30
BELIMO	1	B224+LR X24-MFT	CCV, 1", 2 Way, 19 Cv, w / Non-Spring, 24V, MFT	\$ 617.00	55.0%	\$ 277.65	\$ 277.65
BELIMO	3	B212+LR X24-MFT	CCV, 0.5", 2 Way, 3 Cv, w / Non-Spring, 24V, MFT	\$ 544.00	55.0%	\$ 244.80	\$ 734.40
BELIMO	1	B213+LR X24-MFT	CCV, 0.5", 2 Way, 4.7 Cv, w / Non-Spring, 24V, MFT	\$ 558.00	55.0%	\$ 251.10	\$ 251.10

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John Stuber

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Manufacturer	Qty	Part Number	Description	List Price	Discount	NYS Contract Price	
GAMEWELL	1	1309A0040	Methane (CH4); -40° to 50°C (-40° to 122°F)	\$ 245.00	30.0%	\$ 171.50	\$ 171.50
GAMEWELL	2	1309A0042	EPoint Without Sensor, Wall Mount, Analog, 24VAC/DC	\$ 343.00	30.0%	\$ 240.10	\$ 480.20
GAMEWELL	1	1309A0038	Carbon monoxide (CO); -20° to 50°C (-4° to 122°F)	\$ 136.00	30.0%	\$ 95.20	\$ 95.20
GAMEWELL	1	M-506949	Strobe & Horn, RED lens, 24 VAC, Indoor or Outdoor	\$ 533.00	30.0%	\$ 373.10	\$ 373.10
GAMEWELL	1	M-506949	Strobe & Horn, RED lens, 24 VAC, Indoor or Outdoor	\$ 533.00	30.0%	\$ 373.10	\$ 373.10
GAMEWELL	28	PAM-1	Encapsulated, 24VAC/24VDC/115VAC relay, 10 amp, Form C	\$ 16.25	30.0%	\$ 11.38	\$ 318.50
GAMEWELL	1	PAM-4	Encapsulated with flying lead, 9VDC- 40VDC relay; 10 amp, Form C, 15mA Op Current	\$ 16.25	30.0%	\$ 11.38	\$ 11.38
GAMEWELL	2	10-0172	85-240VAC Universal Input 150 Watt 24VDC Power Supply	\$ 572.00	30.0%	\$ 400.40	\$ 800.80
GAMEWELL	1	10-0172	85-240VAC Universal Input 150 Watt 24VDC Power Supply	\$ 572.00	30.0%	\$ 400.40	\$ 400.40
SCHNEIDER	3	EPD101	DUCT DIFFERENTIAL PRESSURE SENSOR, DRY MEDIA, FIELD SELECTABLE BIDIRECTIONAL RANGE +/-0-1"/0-2.5"/0-5"/0-10", FIELD SELECTABLE 0-5V/0-10V/4-20MA, TAC LABEL	\$ 405.00	50.0%	\$ 202.50	\$ 607.50
SCHNEIDER	3	T-201-1	Transformer 50VA 120 - 24V w/ 3 Amp Fuse Single Hub/FT	\$ 31.00	50.0%	\$ 15.50	\$ 46.50
SCHNEIDER	1	T-207	Transformer 75VA 120 - 24V w/ Circuit Breaker Single Hub/FT	\$ 67.00	50.0%	\$ 33.50	\$ 33.50
SCHNEIDER	15	AP-302	Static Pressure Probe Assembly, 4"L x 2-1/2"W, mounting hardware provided	\$ 139.00	50.0%	\$ 69.50	\$ 1,042.50
SCHNEIDER	19	T-255-24	Transformer 20VA 24 - 24V w/ Inherently Limited Single Hub/FT	\$ 24.00	50.0%	\$ 12.00	\$ 228.00
SCHNEIDER	1	SXWTBASW110002	Terminal Base for the AS-P - base required for each AS-P	\$ 100.00	50.0%	\$ 50.00	\$ 50.00
SCHNEIDER	1	SXWTBPSW110001	Terminal Base Power Supply - base required for each Power Supply	\$ 100.00	50.0%	\$ 50.00	\$ 50.00
SCHNEIDER	3	TC-5242	Low Temp Manual Reset Thermostat, 15 to 55F, Dual Output (DPDT) switch	\$ 327.00	50.0%	\$ 163.50	\$ 490.50

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Manufacturer	Qty	Part Number	Description	List Price	Discount	NYS Contract Price	
VERIS	5	VER-H748	Current Switch w/ Relay: 1 - 135A, 1.0A@30 VAC/DC, 1A or Less, SPDT, 24VAC/DC, Solid-Core, Status LED, Relay Power LED, UL	\$ 166.00	50.0%	\$ 83.00	\$ 415.00
VERIS	3	VER-HD2XVSX-T1	RH Sensor, Deluxe, Duct, 2% Acc, OP: 0-5V/0-10VDC, STD, Schneider Electric	\$ 361.00	50.0%	\$ 180.50	\$ 541.50
VERIS	1	VER-TOHR00	Temperature Sensor, Outdoor, 10K T3, Thermistor, Resistive Output	\$ 58.00	50.0%	\$ 29.00	\$ 29.00
VERIS	2	VER-PHX07S-T1	Schneider Electric Branded, Digitally Controlled Gauge Pressure Transducer, 0-100 psig, Standard	\$ 831.00	50.0%	\$ 415.50	\$ 831.00
VERIS	1	VER-TAHH0	Temperature Sensor, Averaging, Duct Mount, Probe Length: 12' (3.6m), 10K T3, Thermistor	\$ 246.00	50.0%	\$ 123.00	\$ 123.00
VERIS	2	VER-TAJH0	Temperature Sensor, Averaging, Duct Mount, Probe Length: 24' (7.3m), 10K T3, Thermistor	\$ 307.00	50.0%	\$ 153.50	\$ 307.00
VERIS	2	VER-V120	Enclosed Relay, SPDT, 24 VAC/DC, 120 VAC, 20 Amp Resistive @ 277 VAC, Operating Temperature: -34°C to 55°C, LED Indicator	\$ 56.00	50.0%	\$ 28.00	\$ 56.00
VERIS	2	VER-H722LC	Current Transducers: 0 - 10/20/40A, 0 - 5 VDC, Solid-Core, UL, CE	\$ 100.00	50.0%	\$ 50.00	\$ 100.00
VERIS	1	VER-PS1230W	DC Power Supply 100/240Vac to 12Vdc 2.5A or 24Vdc 1.3A	\$ 312.00	50.0%	\$ 156.00	\$ 156.00
VERIS	3	VER-MX1B	Remote Probe with 10 year Lithium Battery (no external power required) Detects the presence of water and switches on alarm	\$ 204.00	50.0%	\$ 102.00	\$ 306.00
VERIS	8	VER-H722LC	Current Transducers: 0 - 10/20/40A, 0 - 5 VDC, Solid-Core, UL, CE	\$ 100.00	50.0%	\$ 50.00	\$ 400.00
VERIS	6	VER-PXDLN02S-T1	Schneider Electric Branded Differential Pressure Transducer - HP Dry Media, duct mount,w/LCD Display, NIST, 0-10" w c	\$ 607.00	50.0%	\$ 303.50	\$ 1,821.00

SUBCONTRACTORS

Subcontractor	Description	Hours	Rate	Total Contract Price
Electrician	Electrical installation of control systems	540	\$ 110.00	\$ 59,940.00

LABOR

Labor	Description	Hours	Rate	Total Price
Facility Automation Specialist	Provides software installation and programming services	145	\$ 120.00	\$ 17,400.00

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BREAKDOWN

NYS Contract Items.....	\$ 33,355.08
Programming & Software.....	\$ 17,400.00
Subcontractors.....	\$ 59,940.00
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TOTAL	\$ 110,695.08

NOTE: All mechanical components such as control valves, dampers, pressure transducers, and well temperature sensors shall be turned over to mechanical contractor for installation under the base contract.

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