

Proposal Summary

**Replacement HVAC Equipment
RFP-RH-23-005**

**Stuart Mechanical LLC
2275 N. Opdyke Rd.
Auburn Hills, MI 48326**

**K & S Ventures Inc.
2925 Waterview Dr.
Rochester Hills, MI 48309**

Item 1 - Roof		
Quoting Manufacturer:	Aaon	Aaon
Quoting Model Number:	RN-020	RN-020
Unit Size	20 Ton	25-ton
Total Cost - Rooftop Unit	\$101,161.00	\$88,440.00
Labor Rates:	Construction \$100/hr Overtime/Wk - \$150.00 Service \$125/hr Overtime/Wk \$187.50	HVAC Labor: \$95 per hour Electrical Labor: \$95 per hour
Estimated Hours to complete:	40 hours	72 hours
Material:	Left blank	Aaon RN-020-3-0-6A04-000 \$70,600.00 Misc. Material - \$925.00 Crane - \$6,500.00 Air Balance - \$1,150.00 Headting Valve & Fittings - \$1,285 OT hours for weekend lift - \$1,140
Provide a work plan/Methodology	Unit is 25-27 weeks out	City Hall's Aaon RTU: Lead time 25-27 Shut down unit, recover refrigerant, disconnect ductwork/electrical, removal of equipment with crane, remove old unit from curb, install new curb adaptor, hoist new unit onto curb, reconnect and install sheet metal, duct transitions, connect electrical, start and commission unit.
Provide Warranty Info. For this item.	Factory Warranty	Aaon: Standard one (1) year warranty, 5-year compressor warranty.
Provide Warranty information on services.	One year service warranty	One year labor.
Item 2 - Humidifier / City Hall		
Quoting Manufacturer:	Dri Stream	Dri-stream
Quoting Model Number:	LX-300	LX-300
Unit Size:		300 lbs per hour
Total Cost - Humidifier	\$52,230.00	\$40,120.00
Labor Rates:	Construction \$100 Overtime \$150 &Wk	HVAC Labor: \$95 per hour Electrical Labor: \$95 per hour
Estimated Hours to Complete:	80 hours	64 hours
Materials:	Left blank	Dristream Humidifier - LX300-300 lbs per hour, \$32,075. Misc. Material - \$1,200.00 Venting - \$255.00 Piping & Fitting - \$510.00
Provide a work plan/Methodology	8-10 week lead time	Lead time - 8 weeks Shutdown unit, remove existing humidifier, install new humidifier, reconnect gas pipe, start and test operations.
Provide Warranty Info. For this item.	One year parts and labor	One year warranty from date of shipping.
Provide Warranty information on services.	One year service warranty	One year labor
Item 3 - Boilers / OCSO		
Two (2) Boilers		
Quoting Manufacturer:	Aerco	Lochinvar - Knight
Quoting Model Number:	AM500B	KBX500M
Unit Size:	500MBTV	500,000 btu
Two (2) Baseboard Pumps		
Quoting Manufacturer:	B&G Erco	Grundfos Magna
Quoting Model Number:	XL27-320	3-40-80F
Unit Size:	2HP	1ph, 115v
Two (2) Large Boiler Pumps		
Quoting Manufacturer:	B&G Erco	Grundfos Magna
Quoting Model Number:	XL65-130	3-50-150F
Unit Size:	1 HP	3/4 hp, 1ph 208-230v
Total Cost - Boilers and Pumps	\$67,680.00	\$93,045.00

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Ethylene Glycol - per gallon price:	Left blank	\$15.00
Labor Rates:	Construction \$100/hr \$150/hr overtime Service \$125/hr \$187.50 overtime	HVAC Labor: \$95.00 per hour Electrical Labor: \$95.00 per hour
Estimated hours to complete:	400 hours	168
Materials:	Left blank	Lochinvar - Knight-KBX500m \$37,800.00 Baseboard Pumps-Grundfos 3-40-80F \$20,300.00 Large Boiler Pumps-Grundfos 3-50-150 F \$6,000.00 Piping, Fitting, Venting, Insulation - \$8,095.00 Balancing - \$2,640.00 Glycol - \$2,250.00
Provide a work plan/Methodology	8-10 week lead time	Shutdown system, disconnect electrical, remove, flush, clean glycol, remove existing boiler/pumps, install new boiler/pumps, re-fill with flush/clean glycol, reconnect electrical, start and test operations.
Provide Warranty Info. For this item.	One year parts and labor	One year parts.
Provide Warranty information on services.	Left blank	One year labor.

Item 4 - Chiller with Pumps / OCSO**One (1) Chiller**

Quoting Manufacturer:	Trane	Carrier
Quoting Model Number:		460-3-60
Unit Size:		60 ton

Two (2) Chiller Pumps

Quoting Manufacturer:	B&G In-line	Grundfos
Quoting Model Number:	e-80	25953-4P-5HP
Unit Size:	5 hp	5 hp

Total Cost Item #4

	\$137,808.00	\$122,510.00
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How many ethylene glycol gallons included:	150	50
Ethylene Glycol - per gallon price:	\$25.50	\$15.00
Labor Rates:	Construction \$100/hr \$150/hr overtime Service \$125/hr \$162.50 overtime	HVAC Labor: \$95.00 per hour Electrical Labor: \$95.00 per hour
Materials:		One (1) Carrier 60 ton 460-3-60 \$77,360.00 Two (2) Grundfos Pumps 45953-4P-5hp \$21,140.00 Insulation - \$6,500.00 Pumps \$21,140.00
Estimated Hours to Complete:	196	104
Provide a work plan/Methodology	Freeze term 100% ethylene glycol	Removal of unit, recover refrigerant, disconnect electrical/gas pipe from unit, with crane remove existing chiller, remove existing pumps, hoist new chiller into place and set pumps, reconnect electrical, gas piping, start and commission unit.
Provide Warranty	5 years parts and one year Labor	30 months from day of install. Revised Proposal - Additional \$2,500.00 for full 5 year manufacturer parts and labor
Provide Warranty information on services.	Left blank	One year labor.

Item 5 - Optional Pricing 1**Building Management System Connection**

Rooftop HVAC Unit - City Hall	\$110,161.00	\$3,300.00
Humidifier - City Hall	\$52,230.00	\$2,050.00
Boilers & Pumps - OCSO	\$98,590.00	\$5,775.00
Chiller & Pumps - OCSO	\$121,648.00	\$5,000.00
Additional Charges:	None Provided	\$14,000.00
Total Cost for Connection	\$382,629.00	\$30,125.00

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Additional Comments:	Includes cranes, glycol, and labor and parts.	Item 5 Jace-at C.H. \$14,000.00. JACE upgrade will be necessary at C.H. Current C.H. AX JACE can no longer be licensed with a BACnet license. Price includes the cost of JAC upgrade for the 2nd floor units.
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Item 6 - Optional Pricing 2

Auditorium HVAC Sound Attenuators

Auditorium HVAC Sound Attenuators	\$442,800.00	\$24,920.00
Labor Rates:	Construction \$100/hr \$125/hr overtime Service \$125/hr \$162.50 overtime	HVAC Labor: \$95.00 per hour Electrical Labor: \$95.00 per hour
Estimated Hours to Complete:	777 hours	96 hours
Materials:	Left blank	Supply Attenuator - \$5,325.00 Return Attenuator - \$3,295.00
Provide a work plan/Methodology:	Left blank	Shut down unit, remove existing ductwork & sound attenuators, install new sound attenuators and reattach ductwork, seal duct joints and verify proper supports for duct work, verify CFM from supply and duct air, verify decibel readings.
Provide warranty for this item	Left blank	Standard manufacturer warranty
Provide Warranty information on services.	Left blank	One year labor

Price Summary

Item 1	\$101,161.00	\$88,440.00
Item 2	\$52,230.00	\$40,120.00
Item 3	\$67,680.00	\$93,045.00
Item 4	\$137,808.00	\$122,510.00
Item 4 - Full 5 year Extended Warranty	included	\$2,500.00
Base Bid Total	<u>\$358,879.00</u>	<u>\$346,615.00</u>
Optional Item 1	\$382,629.00	\$30,125.00
Optional Item 2	\$442,800.00	\$24,920.00
Optional Totals	\$825,429.00	\$55,045.00
Grand Total	\$1,184,308.00	\$401,660.00