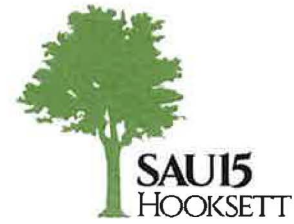




Hooksett School District





Thank You.

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ECM Matrix By Priority

ECM Priority	Scope	Order of Magnitude budget
Memorial		
1	Structural Improvements	\$500,000.00
2	Roofs	\$2,034,900.00
3	Replace Ventilation System	\$2,896,760.00
4	Upgrade Existing EMS Controls	\$202,500.00
5	Install High Efficiency Boilers	\$527,800.00
6	Fire Alarm	\$152,950.00
7	Transformers	\$77,297.94
8	Weatherization	\$85,000.00
9	Kitchen Hood Exhaust Upgrade	\$66,700.00
	Total Memorial	\$6,543,907.94
Cawley		
1	Roofs	\$1,709,050.00
2	Replacing Remaining Ventilation Units	\$3,003,790.00
3	Upgrade Existing EMS Controls	\$243,250.00
4	Install High Efficiency Boilers	\$652,500.00
5	Electrical Transformers	\$78,288.78
6	Building Envelope Weatherization	\$71,760.00
7	Kitchen Hood Exhaust Upgrade	\$66,700.00
	Total Cawley	\$5,825,338.78
Underhill		
1	Replacing Remaining Ventilation Units	\$928,520.00
2	Upgrade Existing EMS Controls	\$118,150.00
3	Install High Efficiency Boilers	\$524,900.00
4	Fire Alarm	\$166,250.00
5	Windows	\$753,053.58
6	Domestic Hot Water Heater & Insulation	\$95,000.00
7	Building Envelope Weatherization	\$150,000.00
8	Kitchen Hood Exhaust Upgrade	\$66,700.00
	Total Underhill	\$2,802,573.58
Total District		\$15,171,820.30
Budget Impact		
	Estimated annual Lease PMT at 5.5 % 20 years	\$1,259,784.00
	Estimated annual Lease PMT at 5.0 % 15 years	\$1,487,592.00

Age of Existing Equipment

Cawley School Equipment Dates

Tag	Manufacturer	Model #	Manufactured Date
B-1	Weil-McLain	BG-988-W	2002
B-2	Weil-McLain	BG-988-W	2002
ERV-1	Venmar	ERV1500e	2002
ERV-2	Venmar	ERV2000e	2002
ERV-3	Venmar	ERV2000e	2002
ERV-4	Daikin	DPS006AHCY4DW-4	2021
ERV-5	Venmar	ERV2000e	2002
ERV-6	Venmar	ERV3000e	2002
ERV-7	Venmar	ERV5000e	2002
ERV-8	Venmar	ERV5000e	2002
ERV-9	Venmar	ERV5000e	2002
ERV-10	Daikin	DPS016AHMW4DW-4	2021
ERV-11	Venmar	ERV5000e	2002
ERV-12	Venmar	ERV5000e	2002
ERV-13	Daikin	DPS016AHMW4DW-4	2021
RTU-1	York	D1EE048A46BDD	2002
RTU-2	York	D1EE060A46BDC	2002
RTU-3	York	D1EE060A46BDC	2002
RTU-4	York	DH120C00P4AAA2B	2002
RSF-1	Econ-Air	A2-G15	2003
HV-1	Econ-Air	A1-D500-G10	2003
CU FOR ERV-9	York	HB180C00A4AAA1A	2001

Underhill School Equipment Dates

Tag	Manufacturer	Model #	Manufactured Date
RTU-1	York	ZJ060N10A2AAA1C	2009
ERV-1	Greenheck	ERV-521H-30-C-ES	2006
ERV-2	Greenheck	ERV-521H-30-C-ES	2006
ERV-3	Valent	VXE-112-41-40H-10I	2023
ERV-4	Valent	VXE-112-41-40H-5I	2023
ERV-5	Valent	VXE-112-41-40H-5I	2023
ERV-6	Valent	VXE-212-58-40H-15I	2023
B-1	Smith Boilers	28HE Series	2006
B-2	Smith Boilers	28HE Series	2006

Memorial School Equipment Dates

Tag	Manufacturer	Model #	Manufactured Date
B-1	Weil-McLain	88 Series 1 688	2003
B-2	Weil-McLain	89 Series 1 688	2003
ERV-1	Greenheck	ERV-521H-30-C-ES	2003
ERV-2	Greenheck	ERV-521H-30-C-ES	2003
ERV-3	Greenheck	ERV-581H-15-D-ES	2003
ERV-4	Greenheck	ERV-581H-15-D-ES	2003
ERV-5	Greenheck	ERV-581H-15-C-ES	2003
ERV-6	Greenheck	ERV-581H-15-C-ES	2003
ERV-7	Greenheck	ERV-521H-30-C-ES	2012
RTU-1	York	D1EE036A46BDC	2003
RTU-2	York	D1EE036A46BDC	2003
RTU-3	York	D1EE036A46BDC	2003
RTU-4	York	D1EE0060A46BDC	2003
RTU-5	York	DH078C00N4AAA3A	2003
RTU-6	York	DH090C00N4AAA3A	2003
RTU-7	York	DH090C00N4AAA3A	2003
RTU-8	York	DH090C00N4AAA3A	2003
RSF-1	Econ-Air	A2-G15	2003
HV-1	Econ-Air	A1-D500-G10	2003

Cawley School ECM Savings Model

Table 2. Annual Energy Consumption

Component	001-BASELINE	002- CONDENSING BOILERS	003- CONDENSING BOILERS-ERV	004- CONDENSING BOILERS-ERV- DDC	005- CONDENSING BOILERS-ERV- DDC-DEHUMID
HVAC Components					
Electric (kWh)	219,174	185,013	182,446	83,802	243,593
Natural Gas (Therm)	52,996	41,753	27,909	10,721	10,204
Fuel Oil (na)	0	0	0	0	0
Propane (na)	0	0	0	0	0
Remote HW (na)	0	0	0	0	0
Remote Steam (na)	0	0	0	0	0
Remote CW (na)	0	0	0	0	0
Non-HVAC Components					
Electric (kWh)	300,194	300,194	300,194	300,194	300,194
Natural Gas (Therm)	0	0	0	0	0
Fuel Oil (na)	0	0	0	0	0
Propane (na)	0	0	0	0	0
Remote HW (na)	0	0	0	0	0
Remote Steam (na)	0	0	0	0	0
Totals					
Electric (kWh)	519,368	485,207	482,640	383,996	543,787
Natural Gas (Therm)	52,996	41,753	27,909	10,721	10,204
Fuel Oil (na)	0	0	0	0	0
Propane (na)	0	0	0	0	0
Remote HW (na)	0	0	0	0	0
Remote Steam (na)	0	0	0	0	0
Remote CW (na)	0	0	0	0	0

Memorial School ECM Savings Model

Table 2. Annual Energy Consumption

Component	001-BASELINE	002- CONDENSING BOILERS	003- CONDENSING BOILERS-ERV	004- CONDENSING BOILERS-ERV- DDC	005- CONDENSING BOILERS-ERV- DH
HVAC Components					
Electric (kWh)	142,445	126,266	131,154	65,306	169,307
Natural Gas (Therm)	36,257	32,365	22,436	9,939	9,574
Fuel Oil (na)	0	0	0	0	0
Propane (na)	0	0	0	0	0
Remote HW (na)	0	0	0	0	0
Remote Steam (na)	0	0	0	0	0
Remote CW (na)	0	0	0	0	0
Non-HVAC Components					
Electric (kWh)	205,778	205,778	205,778	205,778	205,778
Natural Gas (Therm)	0	0	0	0	0
Fuel Oil (na)	0	0	0	0	0
Propane (na)	0	0	0	0	0
Remote HW (na)	0	0	0	0	0
Remote Steam (na)	0	0	0	0	0
Totals					
Electric (kWh)	348,223	332,044	336,932	271,085	375,085
Natural Gas (Therm)	36,257	32,365	22,436	9,939	9,574
Fuel Oil (na)	0	0	0	0	0
Propane (na)	0	0	0	0	0
Remote HW (na)	0	0	0	0	0
Remote Steam (na)	0	0	0	0	0
Remote CW (na)	0	0	0	0	0

Underhill School ECM Savings Model

Table 2. Annual Energy Consumption

Component	001-BASELINE	002- CONDENSING BOILERS	003- CONDENSING BOILERS ERV	004- CONDENSING BOILERS_ERV_D DC	005- CONDENSING BOILERS_ERV_D DC DEHUMID
HVAC Components					
Electric (kWh)	89,402	82,884	82,023	41,552	106,291
Natural Gas (Therm)	25,572	23,775	16,926	9,229	9,152
Fuel Oil (na)	0	0	0	0	0
Propane (na)	0	0	0	0	0
Remote HW (na)	0	0	0	0	0
Remote Steam (na)	0	0	0	0	0
Remote CW (na)	0	0	0	0	0
Non-HVAC Components					
Electric (kWh)	126,038	126,038	126,038	126,038	126,038
Natural Gas (Therm)	0	0	0	0	0
Fuel Oil (na)	0	0	0	0	0
Propane (na)	0	0	0	0	0
Remote HW (na)	0	0	0	0	0
Remote Steam (na)	0	0	0	0	0
Totals					
Electric (kWh)	215,440	208,922	208,061	167,590	232,329
Natural Gas (Therm)	25,572	23,775	16,926	9,229	9,152
Fuel Oil (na)	0	0	0	0	0
Propane (na)	0	0	0	0	0
Remote HW (na)	0	0	0	0	0
Remote Steam (na)	0	0	0	0	0
Remote CW (na)	0	0	0	0	0