



Coffeyville Public Schools

Investment Grade Audit Report

Phase 1B (Non-ESSER)

November 14, 2023

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EXECUTIVE SUMMARY





Executive Summary

Navitas has performed this audit for the Coffeyville Public Schools. The intent of this audit is to develop a plan that can be implemented to reduce operating costs, replace aging and unreliable equipment, and improve school district facilities. This document defines a unique set of energy efficiency and facility improvement measures proposed for implementation through an energy performance contract.

You have chosen to partner with us to resolve challenges presented by limited funding resources, rising utility costs, and old equipment issues. The primary objective in implementing a project through this process is to reduce energy usage, energy costs, and related operational expenses, and redirect these funds to pay for facility improvements. This is accomplished through the installation of new energy efficient equipment and systems. Facility improvements and the modernization of older, inefficient equipment and systems are also major goals of this partnership.

Our analysis includes utility and operational cost analysis, facility audits, surveys, and interviews with your personnel. This information was used to develop a list of energy conservation measures and facility improvement measures that are self-funding through energy and maintenance savings. Savings projections were made through a combination of utility and operational cost analysis, engineering methods and field data collected from data-logging equipment. We also collected input from facility personnel that helped us develop the operational run hours and the operating procedures used for the facility and the major energy-consuming equipment.

In addition to analyzing your current situation, we have worked with you to identify solutions to your facility and financial needs. We have obtained installation costs for the energy conservation measures and facility improvements measures considered for implementation. After developing detailed scopes of work, we have established firm, fixed installation costs for each measure. Our team worked with contractors to determine the scope and ascertain costs for each measure. The savings and cost of each measure were evaluated in terms of simple payback.

We would like to thank the Superintendent, Michael Speer, Terry Rittenhouse, Jared Chastain, and other staff members who participated in the workshops, surveys, and interviews. Your valuable input has allowed us to truly partner with you understand your current issues, deliver a solid audit, and ultimately take the first steps toward solving many of your challenges. Your efforts on this project will not only save energy expense but will also have a positive impact on the environment. The implementation of these energy efficiency and facility improvement projects will show that the Coffeyville Public Schools is helping the state of Kansas and the rest of the nation move forward with their energy initiatives.

1.1 Overview of Issues

The Coffeyville Public Schools, in partnership with patrons of the district, has three simple goals:

1. Ensure our kids are learning,
2. Ensure we are partnering with students, staff, parents, and community members, and
3. Ensure we are being a good steward of patron's tax dollars.

For the school district to achieve these goals, there are many assets the district must maintain and improve upon. Quality staff, use of technology, fiscal accountability, and quality of the facilities are all key components to your success in supporting your community and upholding your mission.

Our interviews and discussions have brought up several categories of issues that were considered in the development of this program.

Financial

Currently, many school districts have been challenged with limited state and local revenues, while expenditures and expectations have continued to increase. This structural imbalance has caused school to have limited funding to meet facility maintenance needs. Due to conservative fiscal management, the Coffeyville Public Schools is financially stable but is continually looking for alternative ways to fund facility needs identified in the long-range facility plan.

With one-time funding available to schools to address the COVID-19 pandemic from the Federal Government, schools now have flexibility to use the funding towards existing salaries, which can free up the existing local dollars originally earmarked for those salaries and re-allocate the dollars towards facility improvements.

Facilities

The school district has a capital projects plan to identify and prioritize deferred maintenance and capital needs. As with many school districts, there are always more needs than funds to address those needs.

- Lighting Retro-Fits
- Building Weatherization
- Building Automation System Improvements
- HVAC Replacements
- HVAC Retro-Commissioning
- Optimization Services

Energy

The analysis completed for the district on energy consumption and costs, shows an opportunity for reductions in both consumption and cost. Implementation of new energy efficient equipment and strategies will have an improvement in building comfort and energy cost savings.

Maintenance

Maintenance costs are beginning to increase and as your equipment continues to get older this will continue. If implemented, most of those repair costs

would not be needed for many years until the new equipment we install approaches the end of its useful life.

Energy Policy

Another important energy cost management tool is a well-conceived energy policy that defines clear expectations for building performance. Without visible, clearly defined objectives and city-wide operational standards, administrators will have great difficulty implementing the best practices in a multi-campus organization. Currently the district does not have this type of policy in place.

The needs and goals identified in our discussions are summarized to include the following:

- Reduce utility and operational expenses.
- Replace outdated HVAC systems.
- Provide a system and training to allow operators to properly control the building systems.
- Demonstrate renewable or “green” technologies where possible.
- Standardization of equipment and systems where possible,
- Reduce future capital project needs.

- Improve comfort for staff and community.

To help the district accomplish its goals, we have put together a program to help fund the replacement of old, inefficient equipment. We feel we can do this while also helping the district be financially responsible by providing savings that help pay for the upgrades. These upgrades can be financed and significantly paid for out of energy and operational savings. The rest of this report provides the details of how together we can accomplish this plan.

1.2 Recommendations

In order to meet the district’s needs, we recommend the implementation of an energy performance contract. The program should include the implementation of an energy policy, the upgrading of inefficient and outdated systems and equipment, and the on-going tracking of utility cost and consumption. **Figure 1.1** outlines the measures and improvements that Navitas has evaluated and recommends in our initial scope of work.

Figure 1.1 Recommended Measures & Improvements

Building	LED Lighting Retro-Fit (Option A)	Building Infiltration Improvements / Weatherization	Building Automation System Upgrade	Packaged Rooftop Unit Replacements	Retro-Commissioning	Optimization Services / Data Analytics
Field Kindley High School & Clinic	•	•	•		•	•
Roosevelt Middle School	•	•	•		•	•
Community Elementary School	•	•	•		•	•
JH Early Childhood Center	•	•	•		•	•
Field Kindley Technical Academy (FKTA)	•	•	•		•	•
Board of Education Office	•	•	•		•	•
USD 455 Food Service Building	•	•	•	•	•	•
Operations & Maintenance Building	•	•	•		•	•

1.3 Performance Optimization

In addition to implementing new more efficient equipment, the implementation plan takes advantage of our knowledge and experience combined with the integration of systems and new tools that are available to change the game of energy efficiency.

Navitas and our energy professionals understand how to utilize monthly utility bill information and web based, real time monitoring to take our solutions to the next level. Dramatic advances in internet enabled information monitoring, real-time data collection and data analytics are now allowing us to help our clients achieve even more efficiency and operational benefits. Web based monitoring platforms are making energy consumption engaging and actionable; and analytic capabilities are allowing us to find and predict hidden opportunities. The value of this approach eliminates old thinking and replaces it with the benefit of the following:

- Old set it and forget it vs. the new energy management.
- Old static and reactive to the new dynamic and proactive.
- Data analytics + information = knowledge power for more intelligent efficiency decisions.

Some of the benefits of this program will include:

- Improved facility comfort.
- Improved equipment and systems.
- Reduced capital dollars needed to repair and replace aged equipment.

- Increased awareness of opportunities for energy savings.
- Improved technical knowledge and expertise to design and implement projects.
- Improved certainty that promised savings are achieved.
- Reduced operational costs.

1.4 Conclusion

We look forward to helping the Coffeyville Public Schools implement these energy conservation measures and facility improvements. In this way, we can help accomplish the mission of providing life-long learning opportunities by enhancing your facilities and providing the best learning environment to students as possible.



SAVINGS CALCULATIONS

2



Savings Calculations

This section contains information on the savings calculations for the energy saving conservation measures contained in this report.

2.1 Lighting Retro-Fit

This measure includes the replacement or retrofit of the fixtures as indicated in Appendix A.

2.1.1 Methodology

Lighting usage (kWh) savings in general, is computed in the following manner:

$$(FWE/1000 \times QFE \times OHE) - (FWN/1000 \times QFN \times OHN)$$

Annual Lighting demand (kW) savings in general, is computed in the following manner:

$$(FWE/1000 \times QFE) \times 12 - (FWN/1000 \times QFN) \times 12$$

Where:

FWE = Fixture Watts – Existing

QFE = Quantity of Fixtures – Existing

OHE = Operating Hours – Existing

FWN = Fixture Watts – New

QFN = Quantity of Fixtures – New

OHN = Operating Hours – New

Operating hours (OHE and OHN) were estimated from existing operating schedules and consideration of historic averages for various space occupancies.

2.1.2 Operation and Maintenance Savings Formulas

Operational and maintenance savings for the lighting fixtures are developed from the average life span for the existing fixture lamps and ballasts and average life span for the replacement fixture lamps and ballasts and the difference to replace the lamps and ballasts based on this life span over a 15-year period.

2.2 Weatherization

2.2.1 Methodology

Weatherization savings is generated from sealing leaks and reducing air leakage. Air leakage is defined as “the unintentional or accidental introduction of outside air into a building” (*US Department of Energy – Building Technologies Program, Air Leakage Guide*).

This leakage is caused by pressure differences due to wind, stack effect and mechanical systems and has been shown to represent the single largest source of heat loss or gain through the building envelopes of nearly all types of buildings. Control of air leakage involves the sealing of gaps, cracks, and holes using appropriate materials such as fire retardant, polyurethane foam, caulks, and appropriate weather-stripping materials. The goal is to create a continuous plane of ‘airtightness’ to completely encompass the building envelop, including the need to ‘decouple’ floor to floor and to ‘compartmentalize’ components of the building in order to equalize pressure differences.

2.3 Building Automation

2.3.1 Methodology

Building automation system savings are based on two items; reduced runtime of equipment (fans, motors, compressors, etc.) and the change in temperature set points between occupied hours and unoccupied hours. The equipment efficiencies remain the same for the calculation to ensure that the associated calculated savings only represent the change in equipment operation. The calculation for reduced runtime factors in the reduced equipment utility consumption based on a reduction in hours

of operation. The calculation for temperature adjustment accounts for the reduced hours of operation relative to the increased deadband between the heating and cooling setpoints.

2.4 HVAC / Cooling Equipment Replacements

2.4.1 Methodology

The heating and cooling efficiencies of the replacement equipment are higher than the existing equipment and utility savings are generated through the operation of higher efficiency equipment. A combination of measured data, manufacturer’s data, and experience with efficiency degradation provide guidance to calculate existing equipment efficiencies. New equipment efficiencies were taken from manufacturer published data.

The formulas used are:

$$R \times Q \times \% \text{ load} / Effe - R \times Q \times \% \text{ load} / Efn$$

Where:

R= Run hours

Q = Total equipment capacity

% load is % of total capacity required at varying outside air temperatures

Effe = existing equipment efficiency

Efn = new equipment efficiency

These calculations for each HVAC replacement measure are located in Appendix A.

2.4.2 Operation and Maintenance Savings Formulas

Older existing equipment requires a significant amount of maintenance to keep running as well as requiring ongoing preventative maintenance. Operation and maintenance (O&M) savings are calculated using data from the Whitestone O&M Repair manuals and compare a timeline of expected maintenance costs, if the equipment is not replaced, to a timeline of costs expected if the equipment is replaced in the project.

2.5 Optimization Services

2.5.1 Methodology

After subtracting the HVAC and Controls ECM savings from the HVAC Baseline (from the disaggregation of the utility bills) a savings of 10% to 20% was applied. These percentages are based on previous project experience and what we expect the final EUI for the building to be.



FIELD KINDLEY HIGH SCHOOL & CLINIC

CS

3.1. ECM #1 – LED Lighting Retro-Fit

Refer to Section 11 for the LED Lighting Retro-Fit Line by Line full scope of work. Refer to Figure 3.1 for the LED Lighting Retro-Fit Savings Calculation.



Figure 3.1 LED Lighting Retro-Fit Savings Calculation

ECM #	Location	Measure	From UAT kWhRev		Existing				New				Savings	
			kWh Interior	kWh Exterior	kW Interior	kW Exterior	kWh Interior	kWh Exterior	kW Interior	kW Exterior	kWh Interior	kWh Exterior	kW	kWh
1	Field Kindley High School & Clinic	LED Lighting Retro-Fit (Option A)	326,858	6,234	109.99	1.40	326,881	6,240	50.13	1.11	154,389	4,962	60.15	173,771

kW Savings

ECM #	Location	Measure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1	Field Kindley High School & Clinic	LED Lighting Retro-Fit (Option A)	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	60.15

kWh Savings

ECM #	Location	Measure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1	Field Kindley High School & Clinic	LED Lighting Retro-Fit (Option A)	14,481	14,481	14,481	14,481	14,481	14,481	14,481	14,481	14,481	14,481	14,481	14,481	173,771

3.2. ECM #21 – Building Infiltration Improvements/Weatherization

Refer to Section 12 for the Building Infiltration Improvements/Weatherization Audit. Refer to Figure 3.2 for the Weatherization Savings Calculation.



Figure 3.2 Building Infiltration Improvements/Weatherization Savings Calculation

		Savings From BES Audit		Adjustments			Projected Savings			Total kWh Savings
ECM#	Buildings	Heating (Therms)	Cooling (kWh)	Heating (Therms)	Cooling (kWh)	Electric Heat (kWh)	Gas Heat Savings (Therms)	Summer Savings (kWh)	Winter Savings (kWh)	
21	Field Kindley High School & Clinic	2,218	8,199	1,584	8,199	184	1,576	2,733	1,459	4,191.81

Cooling Percent Threshold ---> 5% Max 5% cooling energy from RevUA
 Heating Percent Threshold ---> 5% Max 5% heating energy from RevUA

ECM#	Buildings	Electric Heating RevUA (kWh)	Gas Heating RevUA (therms)	Percentage Electric	Heating RevUA	Cooling RevUA	BES Percent of Heating	BES Percent of Cooling	Adjusted Percent of	Adjusted Percent of
21	Field Kindley High School & Clinic	4,612	31,524	0%	31,681	460,881	7%	2%	5%	2%

3.4. ECM #81 – Optimization Services / Data Analytics

Refer to Figure 3.3 for the Optimization Services / Data Analytics Savings Calculation.



Figure 3.3 Optimization Services / Data Analytics Savings Calculation

Optimization Services / Data Analytics Savings Calculation

		kWh												
ECM #	BUILDING	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
81	Field Kindley High School & Clinic	18,578.75	16,780.80	18,578.75	17,979.43	18,578.75	17,979.43	18,578.75	18,578.75	17,979.43	18,578.75	17,979.43	18,578.75	218,749.75

		therms												
ECM #	BUILDING	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
81	Field Kindley High School & Clinic	145.86	162.07	96.65	57.59	41.76	24.61	16.36	16.99	22.48	38.17	79.20	141.00	842.74



ROOSEVELT MIDDLE SCHOOL

4

4.1. ECM #3 – LED Lighting Retro-Fit

Refer to Section 11 for the LED Lighting Retro-Fit Line by Line full scope of work. Refer to Figure 4.1 for the LED Lighting Retro-Fit Savings Calculation.



Figure 4.1 LED Lighting Retro-Fit Savings Calculation

ECM #	Location	Measure	From UAT kWhRev		Existing				New				Savings	
			kWh Interior	kWh Exterior	kW Interior	kW Exterior	kWh Interior	kWh Exterior	kW Interior	kW Exterior	kWh Interior	kWh Exterior	kW	kWh
3	Roosevelt Middle School	LED Lighting Retro-Fit (Option A)	197,925	5,700	59.79	0.40	197,858	3,469	21.97	0.43	74,628	3,793	37.79	122,905

kW Savings															
ECM #	Location	Measure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
3	Roosevelt Middle School	LED Lighting Retro-Fit (Option A)	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	37.79

kWh Savings															
ECM #	Location	Measure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
3	Roosevelt Middle School	LED Lighting Retro-Fit (Option A)	10,242	10,242	10,242	10,242	10,242	10,242	10,242	10,242	10,242	10,242	10,242	10,242	122,905

4.2. ECM #22 – Building Infiltration Improvements/Weatherization

Refer to Section 12 for the Building Infiltration Improvements/Weatherization Audit. Refer to Figure 4.2 for the Weatherization Savings Calculation.



Figure 4.2 Building Infiltration Improvements/Weatherization Savings Calculation

ECM# Buildings		Savings From BES Audit		Adjustments			Projected Savings			Total kWh Savings
		Heating (Therms)	Cooling (kWh)	Heating (Therms)	Cooling (kWh)	Electric Heat (kWh)	Gas Heat Savings (Therms)	Summer Savings (kWh)	Winter Savings (kWh)	
22	Roosevelt Middle School	493	182	493	182	-	493	121	61	182.20

Cooling Percent Threshold ---> 5% Max 5% cooling energy from RevUA
 Heating Percent Threshold ---> 5% Max 5% heating energy from RevUA

ECM# Buildings		Electric Heating RevUA (kWh)	Gas Heating RevUA (therms)	Percentage Electric	Heating RevUA	Cooling RevUA	BES Percent of Heating	BES Percent Of Cooling	Adjusted Percent of	Adjusted Percent of
22	Roosevelt Middle School	-	16,119	0%	16,119	167,142	3%	0%	3%	0%



Calculation Parameters		INPUTS	Roosevelt Middle School		OA Temp	% of Max Heating Load	VRF COP	OA Temp	% of Max Cooling Load				
Kansas City, MO		Building SqFt: 75,177			-2.5 & Below	100%	0.80	55	0%				
2,255	Maximum Heating Load (MBtu/h)			<- Note 3	2.5	93%	0.80	60	0%				
0.0082	Humidity Ratio Setpoint (lb _{water} /lb _{air})				7.5	86%	0.80	65	5%				
251	Maximum Cooling Load (tons)			<- Note 1	12.5	79%	0.80	70	19%				
0.86	Cooling Equipment Eff (kW/Ton)			<- Note 2	17.5	72%	0.80	75	32%				
0.8	Gas Heating Equipment Eff (AFUE)			<- Note 4	22.5	65%	1.34	80	46%				
1.0	Electric Heating Equipment Eff (COP)				27.5	58%	1.88	85	59%				
7,518	Affected Occupied Outside Air CFM				32.5	51%	2.42	90	73%				
0%	% of VRF kWh				37.5	44%	2.96	95	86%				
					42.5	37%	3.50	100 & Above	100%				
					47.5	30%	3.50						
Existing Conditions													
75	Cooling Occupied Setpoint (°F)												
85	Cooling Un-Occupied Setpoint (°F)												
68	Heating Occupied Setpoint (°F)												
55	Heating Unoccupied Setpoint (°F)												
Yes	Is OA Shut Off When Not Occupied?												
Controls Schedule													
Monday through Friday:													
2	Hour of day system is turned ON												
16.0	Hour of day system is turned OFF												
Saturday:													
0	Hour of day system is turned ON												
0.0	Hour of day system is turned OFF												
Sunday:													
0	Hour of day system is turned ON												
0.0	Hour of day system is turned OFF												
New Conditions													
74	Cooling Occupied Setpoint (°F)												
85	Cooling Un-Occupied Setpoint (°F)												
70	Heating Occupied Setpoint (°F)												
55	Heating Unoccupied Setpoint (°F)												
Controls Schedule													
Monday through Friday:													
6	Hour of day system is turned ON												
16.0	Hour of day system is turned OFF												
Saturday:													
0	Hour of day system is turned ON												
0.0	Hour of day system is turned OFF												
Sunday:													
0	Hour of day system is turned ON												
0.0	Hour of day system is turned OFF												
Notes/Comments:													
This calculation was calibrated for a 50,000 sq ft single story building in Missouri. The building use type in the calibration was an elementary school and met, but did not exceed, ASHRAE 90.1. System types were single zone RTUs with gas heat and constant volume air distribution. No economizer was included. Windows were 20% of wall area. Lights were 32 W T8. Occupancy was 15 persons/1000 square feet.													
Calculation will be reasonably accurate for preliminary calcs and CEA type calcs where M&V is IPMVP Option D (Calibrated Simulation). If IPMVP option C (Utility Bill Guarantee) is used, Engineer is advised to consider modeling with Carrier HAP or similar.													
Do not confuse Maximum Heating Load and Maximum Cooling Load with installed equipment capacities. Often (heating systems in particular) are oversized and maximum load is considerably less than installed capacity. Conservative estimates of sq.ft./ton and Btu/hr/sf can be used to estimate load if calculations are not performed or actual historical operating data is not available. If installed heating and cooling loads are used and the existing annual energy use doesn't match up the the utility analysis, a calibration procedure should be used to adjust calculation.													
Note 1. Cooling Equipment. From kWRev. Building SqFt. / 300 [SqFt./Ton]													
Note 2. From kWRev.													
Note 3. Max Heating Load. Building SqFt. * 30 [Btu/SqFt.] / 1000 [Btu]													
Note 4. Outside Air CFM. Building SqFt. * 0.1 Outside Air/Building SqFt.													
Note 5. Existing Heating Therms from UA													
% of Gas Heat 100.0%													
Calibration													
					0	Note 5.							
Exist. Heating Therms from UA					16,119								
Total Existing Heating Therms from UA					16,119								
Exist. Heating Therms from calc.					16,119								
Adjustment Factor					0.50180								
Exist. Cooling kWh from UA					167,142								
Exist Cooling kWh from calc.					167,142								
Adjustment Factor					1.77123								
Savings Realized from Schedule Change													
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total Usage Savings	
0	0	0	0	-1,314	685	6,626	2,376	-909	-513	0	0	6,952	Cooling kWh
0	0	0	0	0	0	0	0	0	0	0	0	0	Heating kWh
359	299	273	149	0	0	0	0	0	0	238	314	1,632	Heating Therms
Existing Energy (Calibrated)													
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total Usage	
0	0	0	0	10,902	32,870	59,738	38,620	16,181	8,831	0	0	167,142	Cooling kWh
0	0	0	0	0	0	0	0	0	0	0	0	0	Heating kWh
4,094	3,164	2,439	841	0	0	0	0	0	0	2,169	3,412	16,119	Heating Therms
New Energy (Calibrated)													
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total Usage	
0	0	0	0	12,215	32,185	53,111	36,244	17,091	9,344	0	0	160,190	Cooling kWh
0	0	0	0	0	0	0	0	0	0	0	0	0	Heating kWh
3,735	2,866	2,165	692	0	0	0	0	0	0	1,930	3,098	14,487	Heating Therms

4.4. ECM #82 – Optimization Services / Data Analytics

Refer to Figure 4.3 for the Optimization Services / Data Analytics Savings Calculation.



Figure 4.3 Optimization Services / Data Analytics Savings Calculation

Optimization Services / Data Analytics Savings Calculation

		kWh												
ECM #	BUILDING	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
82	Roosevelt Middle School	4,325.08	3,906.52	4,325.08	4,185.56	4,325.08	4,185.56	4,325.08	4,325.08	4,185.56	4,325.08	4,185.56	4,325.08	50,924.29

		therms												
ECM #	BUILDING	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
82	Roosevelt Middle School	66.79	74.21	44.25	26.37	19.12	11.27	7.49	7.78	10.29	17.48	36.26	64.57	385.89



COMMUNITY ELEMENTARY
SCHOOL

5

5.1. ECM #5 – LED Lighting Retro-Fit

Refer to Section 11 for the LED Lighting Retro-Fit Line by Line full scope of work. Refer to Figure 5.1 for the LED Lighting Retro-Fit Savings Calculation.



Figure 5.1 LED Lighting Retro-Fit Savings Calculation

ECM #	Location	Measure	From UAT kWhRev		Existing				New				Savings	
			kWh Interior	kWh Exterior	kW Interior	kW Exterior	kWh Interior	kWh Exterior	kW Interior	kW Exterior	kWh Interior	kWh Exterior	kW	kWh
5	Community Elementary School	LED Lighting Retro-Fit (Option A)	310,730	30,926	155.59	4.36	310,502	30,956	55.76	4.28	114,275	30,374	99.92	196,810

kW Savings

ECM #	Location	Measure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
5	Community Elementary School	LED Lighting Retro-Fit (Option A)	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	99.92

kWh Savings

ECM #	Location	Measure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
5	Community Elementary School	LED Lighting Retro-Fit (Option A)	16,401	16,401	16,401	16,401	16,401	16,401	16,401	16,401	16,401	16,401	16,401	16,401	196,810

5.2. ECM #23 – Building Infiltration Improvements/Weatherization

Refer to Section 12 for the Building Infiltration Improvements/Weatherization Audit. Refer to Figure 5.2 for the Weatherization Savings Calculation.



Figure 5.2 Building Infiltration Improvements/Weatherization Savings Calculation

ECM# Buildings		Savings From BES Audit		Adjustments			Projected Savings			Total kWh Savings
		Heating (Therms)	Cooling (kWh)	Heating (Therms)	Cooling (kWh)	Electric Heat (kWh)	Gas Heat Savings (Therms)	Summer Savings (kWh)	Winter Savings (kWh)	
23	Community Elementary School	1,936	5,369	739	5,369	509	722	3,579	2,299	5,878.38

Cooling Percent Threshold ----> 5% Max 5% cooling energy from RevUA
 Heating Percent Threshold ----> 5% Max 5% heating energy from RevUA

ECM# Buildings		Electric Heating RevUA (kWh)	Gas Heating RevUA (therms)	Percentage Electric	Heating RevUA	Cooling RevUA	BES Percent of Heating	BES Percent Of Cooling	Adjusted Percent of	Adjusted Percent of
23	Community Elementary School	10,184	14,437	2%	14,785	419,818	13%	1%	5%	1%

5.4. ECM #83 – Optimization Services / Data Analytics

Refer to Figure 5.3 for the Optimization Services / Data Analytics Savings Calculation.



Figure 5.3 Optimization Services / Data Analytics Savings Calculation

Optimization Services / Data Analytics Savings Calculation

		kWh												
ECM #	BUILDING	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
83	Community Elementary School	8,605.66	7,772.86	8,605.66	8,328.06	8,605.66	8,328.06	8,605.66	8,605.66	8,328.06	8,605.66	8,328.06	8,605.66	101,324.72

		therms												
ECM #	BUILDING	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
83	Community Elementary School	21.05	19.68	10.63	3.63	2.07	1.81	1.11	1.53	2.05	3.09	8.61	17.63	92.89



JH EARLY CHILDHOOD CENTER

9

6.1. ECM #7 – LED Lighting Retro-Fit

Refer to Section 11 for the LED Lighting Retro-Fit Line by Line full scope of work. Refer to Figure 6.1 for the LED Lighting Retro-Fit Savings Calculation.



Figure 6.1 LED Lighting Retro-Fit Savings Calculation

ECM #	Location	Measure	From UAT kWhRev		Existing				New				Savings	
			kWh Interior	kWh Exterior	kW Interior	kW Exterior	kWh Interior	kWh Exterior	kW Interior	kW Exterior	kWh Interior	kWh Exterior	kW	kWh
7	JH Early Childhood Center	LED Lighting Retro-Fit (Option A)	59,253	12,483	26.78	1.81	59,228	12,482	9.44	0.81	20,714	5,610	18.34	45,386

kW Savings															
ECM #	Location	Measure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
7	JH Early Childhood Center	LED Lighting Retro-Fit (Option A)	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	18.34

kWh Savings															
ECM #	Location	Measure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
7	JH Early Childhood Center	LED Lighting Retro-Fit (Option A)	3,782	3,782	3,782	3,782	3,782	3,782	3,782	3,782	3,782	3,782	3,782	3,782	45,386

6.2. ECM #24 – Building Infiltration Improvements/Weatherization

Refer to Section 12 for the Building Infiltration Improvements/Weatherization Audit. Refer to Figure 6.2 for the Weatherization Savings Calculation.



Figure 6.2 Building Infiltration Improvements/Weatherization Savings Calculation

		Savings From BES Audit		Adjustments			Projected Savings			Total kWh Savings
ECM#	Buildings	Heating (Therms)	Cooling (kWh)	Heating (Therms)	Cooling (kWh)	Electric Heat (kWh)	Gas Heat Savings (Therms)	Summer Savings (kWh)	Winter Savings (kWh)	
24	JH Early Childhood Center	1,590	5,395	520	2,900	601	499	1,933	1,568	3,501.05

Cooling Percent Threshold ---> 5% Max 5% cooling energy from RevUA
 Heating Percent Threshold ---> 5% Max 5% heating energy from RevUA

ECM#	Buildings	Electric Heating RevUA (kWh)	Gas Heating RevUA (therms)	Percentage Electric	Heating RevUA	Cooling RevUA	BES Percent of Heating	BES Percent Of Cooling	Adjusted Percent of	Adjusted Percent of
24	JH Early Childhood Center	12,027	9,982	4%	10,392	57,994	15%	9%	5%	5%

6.4. ECM #84 – Optimization Services / Data Analytics

Refer to Figure 6.3 for the Optimization Services / Data Analytics Savings Calculation.



Figure 6.3 Optimization Services / Data Analytics Savings Calculation

Optimization Services / Data Analytics Savings Calculation

		kWh												
ECM #	BUILDING	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
84	JH Early Childhood Center	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

		therms												
ECM #	BUILDING	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
84	JH Early Childhood Center	10.52	11.11	5.07	2.62	0.90	0.13	0.07	0.08	0.69	3.26	7.91	10.06	52.42



**FIELD KINDLEY TECHNICAL
ACADEMY (FKTA)**

7

7.1. ECM #9 – LED Lighting Retro-Fit

Refer to Section 11 for the LED Lighting Retro-Fit Line by Line full scope of work. Refer to Figure 7.1 for the LED Lighting Retro-Fit Savings Calculation.



Figure 7.1 LED Lighting Retro-Fit Savings Calculation

ECM #	Location	Measure	From UAT kWhRev		Existing				New				Savings	
			kWh Interior	kWh Exterior	kW Interior	kW Exterior	kWh Interior	kWh Exterior	kW Interior	kW Exterior	kWh Interior	kWh Exterior	kW	kWh
9	Field Kindley Technical Academy	LED Lighting Retro-Fit (Option A)	8,317	7,111	3.75	1.25	9,388	7,114	1.59	0.74	4,038	4,207	2.66	8,257

kW Savings															
ECM #	Location	Measure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
9	Field Kindley Technical Academy	LED Lighting Retro-Fit (Option A)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	2.66

kWh Savings															
ECM #	Location	Measure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
9	Field Kindley Technical Academy	LED Lighting Retro-Fit (Option A)	688	688	688	688	688	688	688	688	688	688	688	688	8,257

7.2. ECM #25 – Building Infiltration Improvements/Weatherization

Refer to Section 12 for the Building Infiltration Improvements/Weatherization Audit. Refer to Figure 7.2 for the Weatherization Savings Calculation.



Figure 7.2 Building Infiltration Improvements/Weatherization Savings Calculation

		Savings From BES Audit		Adjustments			Projected Savings			Total kWh Savings
ECM#	Buildings	Heating (Therms)	Cooling (kWh)	Heating (Therms)	Cooling (kWh)	Electric Heat (kWh)	Gas Heat Savings (Therms)	Summer Savings (kWh)	Winter Savings (kWh)	
25	Field Kindley Technical Academy (FKTA)	397	1,237	153	781	138	148	521	398	918.55

Cooling Percent Threshold---> 5% Max 5% cooling energy from RevUA
 Heating Percent Threshold ---> 5% Max 5% heating energy from RevUA

ECM#	Buildings	Electric Heating RevUA (kWh)	Gas Heating RevUA (therms)	Percentage Electric	Heating RevUA	Cooling RevUA	BES Percent of Heating	BES Percent Of Cooling	Adjusted Percent of	Adjusted Percent of
25	Field Kindley Technical Academy (FKTA)	2,753	2,957	3%	3,051	15,618	13%	8%	5%	5%

7.3. ECM #85 – Optimization Services / Data Analytics

Refer to Figure 7.3 for the Optimization Services / Data Analytics Savings Calculation.



Figure 7.3 Optimization Services / Data Analytics Savings Calculation

Optimization Services / Data Analytics Savings Calculation

		kWh												
ECM #	BUILDING	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
85	Field Kindley Technical Academy (FKTA)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

		therms												
ECM #	BUILDING	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
85	Field Kindley Technical Academy (FKTA)	13.14	14.78	7.60	4.22	1.69	0.21	0.03	0.07	0.34	2.35	6.38	11.79	62.61



BOARD OF EDUCATION OFFICE

8

8.1. ECM #11 – LED Lighting Retro-Fit

Refer to Section 11 for the LED Lighting Retro-Fit Line by Line full scope of work. Refer to Figure 8.1 for the LED Lighting Retro-Fit Savings Calculation.



Figure 8.1 LED Lighting Retro-Fit Savings Calculation

ECM #	Location	Measure	From UAT kWhRev		Existing				New				Savings	
			kWh Interior	kWh Exterior	kW Interior	kW Exterior	kWh Interior	kWh Exterior	kW Interior	kW Exterior	kWh Interior	kWh Exterior	kW	kWh
11	Board of Education Office	LED Lighting Retro-Fit (Option A)	20,394	5,300	8.61	0.20	20,362	1,778	3.75	0.26	9,386	2,243	4.81	10,513

kW Savings															
ECM #	Location	Measure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
11	Board of Education Office	LED Lighting Retro-Fit (Option A)	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	4.81

kWh Savings															
ECM #	Location	Measure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
11	Board of Education Office	LED Lighting Retro-Fit (Option A)	876	876	876	876	876	876	876	876	876	876	876	876	10,513

8.2. ECM #26 – Building Infiltration Improvements/Weatherization

Refer to Section 12 for the Building Infiltration Improvements/Weatherization Audit. Refer to Figure 8.2 for the Weatherization Savings Calculation.



Figure 8.2 Building Infiltration Improvements/Weatherization Savings Calculation

ECM# Buildings		Savings From BES Audit		Adjustments			Projected Savings			Total kWh Savings
		Heating (Therms)	Cooling (kWh)	Heating (Therms)	Cooling (kWh)	Electric Heat (kWh)	Gas Heat Savings (Therms)	Summer Savings (kWh)	Winter Savings (kWh)	
26	Board of Education Office	401	1,362	82	1,362	670	59	908	1,124	2,032.02

Cooling Percent Threshold----> 5% Max 5% cooling energy from RevUA
 Heating Percent Threshold ----> 5% Max 5% heating energy from RevUA

ECM# Buildings		Electric Heating RevUA (kWh)	Gas Heating RevUA (therms)	Percentage Electric	Heating RevUA	Cooling RevUA	BES Percent of Heating	BES Percent Of Cooling	Adjusted Percent of	Adjusted Percent of
26	Board of Education Office	13,405	1,187	28%	1,645	29,336	24%	5%	5%	5%



Calculation Parameters		INPUTS	Board of Education Office		OA Temp	% of Max Heating Load	VRF COP	OA Temp	% of Max Cooling Load
Kansas City, MO		Building SqFt: 6,278			-2.5 & Below	100%	0.80	55	0%
188	Maximum Heating Load (MBtu/h)			<- Note 3	2.5	93%	0.80	60	0%
0.0082	Humidity Ratio Setpoint (lb _{water} /lb _{air})				7.5	86%	0.80	65	5%
21	Maximum Cooling Load (tons)			<- Note 1	12.5	79%	0.80	70	19%
0.86	Cooling Equipment Eff (kW/Ton)			<- Note 2	17.5	72%	0.80	75	32%
0.8	Gas Heating Equipment Eff (AFUE)			<- Note 4	22.5	65%	1.34	80	46%
1.0	Electric Heating Equipment Eff (COP)				27.5	58%	1.88	85	59%
628	Affected Occupied Outside Air CFM				32.5	51%	2.42	90	73%
0%	% of VRF kWh				37.5	44%	2.96	95	86%
					42.5	37%	3.50	100 & Above	100%
					47.5	30%	3.50		

Existing Conditions	
73	Cooling Occupied Setpoint (°F)
80	Cooling Un-Occupied Setpoint (°F)
69	Heating Occupied Setpoint (°F)
60	Heating Unoccupied Setpoint (°F)
Yes	Is OA Shut Off When Not Occupied?

Controls Schedule	
Monday through Friday:	
7	Hour of day system is turned ON
16.5	Hour of day system is turned OFF
Saturday:	
0	Hour of day system is turned ON
0.0	Hour of day system is turned OFF
Sunday:	
0	Hour of day system is turned ON
0.0	Hour of day system is turned OFF

New Conditions	
74	Cooling Occupied Setpoint (°F)
85	Cooling Un-Occupied Setpoint (°F)
70	Heating Occupied Setpoint (°F)
55	Heating Unoccupied Setpoint (°F)

Controls Schedule	
Monday through Friday:	
7	Hour of day system is turned ON
16.5	Hour of day system is turned OFF
Saturday:	
0	Hour of day system is turned ON
0.0	Hour of day system is turned OFF
Sunday:	
0	Hour of day system is turned ON
0.0	Hour of day system is turned OFF

Notes/Comments:	
<p>This calculation was calibrated for a 50,000 sq ft single story building in Missouri. The building use type in the calibration was an elementary school and met, but did not exceed, ASHRAE 90.1. System types were single zone RTUs with gas heat and constant volume air distribution. No economizer was included. Windows were 20% of wall area. Lights were 32 W T8. Occupancy was 15 persons/1000 square feet.</p> <p>Calculation will be reasonably accurate for preliminary calcs and CEA type calcs where M&V is IPMVP Option D (Calibrated Simulation). If IPMVP option C (Utility Bill Guarantee) is used, Engineer is advised to consider modeling with Carrier HAP or similar.</p> <p>Do not confuse Maximum Heating Load and Maximum Cooling Load with installed equipment capacities. Often (heating systems in particular) are oversized and maximum load is considerably less than installed capacity. Conservative estimates of sq.ft./ton and Btu/hr/sf can be used to estimate load if calculations are not performed or actual historical operating data is not available. If installed heating and cooling loads are used and the existing annual energy use doesn't match up the the utility analysis, a calibration procedure should be used to adjust calculation.</p> <p>Note 1. Cooling Equipment. From kWRev. Building SqFt. / 300 [SqFt./Ton] Note 2. From kWRev. Note 3. Max Heating Load. Building SqFt. * 30 [Btu/SqFt.] / 1000 [Btu] Note 4. Outside Air CFM. Building SqFt. * 0.1 Outside Air/Building SqFt. Note 5. Existing Heating kWh and Therms from UA</p>	

Calibration	
Exist. Heating kWh from UA	13,405
Exist. Heating Therms from UA	1,187
Total Existing Heating converted to Therms	1,645
Exist. Heating Therms from calc.	1,645
Adjustment Factor	0.67429
Exist. Cooling kWh from UA	29,336
Exist Cooling kWh from calc.	29,336
Adjustment Factor	3.78319

Savings Realized from Schedule Change													
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total Usage Savings	
0	0	0	0	330	845	2,336	1,204	296	171	0	0	5,182	Cooling kWh
255	224	198	80	0	0	0	0	0	0	209	248	1,215	Heating kWh
23	20	18	7	0	0	0	0	0	0	19	22	108	Heating Therms

Existing Energy (Calibrated)													
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total Usage	
0	0	0	0	2,080	5,689	10,607	6,767	2,716	1,476	0	0	29,336	Cooling kWh
3,453	2,656	2,000	619	0	0	0	0	0	0	1,803	2,875	13,405	Heating kWh
306	235	177	55	0	0	0	0	0	0	160	255	1,187	Heating Therms

New Energy (Calibrated)													
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total Usage	
0	0	0	0	1,750	4,844	8,272	5,563	2,420	1,305	0	0	24,154	Cooling kWh
3,198	2,431	1,801	538	0	0	0	0	0	0	1,594	2,627	12,190	Heating kWh
283	215	160	48	0	0	0	0	0	0	141	233	1,079	Heating Therms

8.4. ECM #86 – Optimization Services / Data Analytics

Refer to Figure 8.3 for the Optimization Services / Data Analytics Savings Calculation.



Figure 8.3 Optimization Services / Data Analytics Savings Calculation

Optimization Services / Data Analytics Savings Calculation

		kWh												
ECM #	BUILDING	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
86	Board of Education Office	651.07	568.11	594.01	458.68	726.18	1,136.99	2,644.77	1,513.72	587.97	566.43	587.41	643.89	10,679.23

		therms												
ECM #	BUILDING	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
86	Board of Education Office	19.04	16.51	13.41	2.40	-4.88	-4.93	-4.93	-4.93	-4.93	-4.84	14.09	18.41	54.42



USD 455 FOOD SERVICE BUILDING

9

9.1. ECM #13 – LED Lighting Retro-Fit

Refer to Section 11 for the LED Lighting Retro-Fit Line by Line full scope of work. Refer to Figure 9.1 for the LED Lighting Retro-Fit Savings Calculation.



Figure 9.1 LED Lighting Retro-Fit Savings Calculation

ECM #	Location	Measure	From UAT kWhRev		Existing				New				Savings	
			kWh Interior	kWh Exterior	kW Interior	kW Exterior	kWh Interior	kWh Exterior	kW Interior	kW Exterior	kWh Interior	kWh Exterior	kW	kWh
13	USD 455 Food Service Building	LED Lighting Retro-Fit (Option A)	14,417	11,038	5.50	1.31	14,466	11,021	4.52	0.42	12,169	3,494	1.88	9,823

kW Savings

ECM #	Location	Measure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
13	USD 455 Food Service Building	LED Lighting Retro-Fit (Option A)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	1.88

kWh Savings

ECM #	Location	Measure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
13	USD 455 Food Service Building	LED Lighting Retro-Fit (Option A)	819	819	819	819	819	819	819	819	819	819	819	819	9,823

9.2. ECM #27 – Building Infiltration Improvements/Weatherization

Refer to Section 12 for the Building Infiltration Improvements/Weatherization Audit. Refer to Figure 9.2 for the Weatherization Savings Calculation.



Figure 9.2 Building Infiltration Improvements/Weatherization Savings Calculation

		Savings From BES Audit		Adjustments			Projected Savings			Total kWh Savings
ECM#	Buildings	Heating (Therms)	Cooling (kWh)	Heating (Therms)	Cooling (kWh)	Electric Heat (kWh)	Gas Heat Savings (Therms)	Summer Savings (kWh)	Winter Savings (kWh)	
27	USD 445 Food Service Building	717	2,234	126	2,234	-	126	1,489	745	2,234.22

Cooling Percent Threshold---> 5% Max 5% cooling energy from RevUA
 Heating Percent Threshold ---> 5% Max 5% heating energy from RevUA

ECM#	Buildings	Electric Heating RevUA (kWh)	Gas Heating RevUA (therms)	Percentage Electric	Heating RevUA	Cooling RevUA	BES Percent of Heating	BES Percent Of Cooling	Adjusted Percent of	Adjusted Percent of
27	USD 445 Food Service Building	-	2,518	0%	2,518	49,590	28%	5%	5%	5%

ENERGY SAVINGS CALCULATIONS:



MECHANICAL COOLING												TOTAL ANNUAL ENERGY SAVINGS					
												kWh	5,276				
												kW	32				
												Therm	17				
												Total Summer Savings kWh	4,006				
												Total Winter Savings kWh	1,269				
												Total Summer Savings kW	18				
												Total Winter Savings kW	14				
												kWh	45,640				
												kW	233				
MECHANICAL REFRIGERATION SAVINGS:												ANNUAL ENERGY CONSUMPTION EXISTING EQUIPMENT					
Total Tons of Cooling	30.0	Replaced Tons	30.0	% of Replaced/Total Tons	1							Existing Cooling kWh	36,269				
Total Cooling Run Hours	3,997							Existing Ventilation kWh	15,971								
												BAS Cooling kWh Savings	6,600				
												Existing Cooling kW	176				
												Existing Ventilation kW	57				
Existing Unit																	
kW Peak % Load																	
% Load	KW/Ton	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC				
100%	1.33	0	0	0	0	0	0	245	123	0	0	0	0				
75%	1.22	0	0	0	0	17	439	1,469	1,098	236	17	0	0				
50%	1.11	0	0	92	451	1,312	3,260	4,244	3,711	1,937	482	21	0				
25%	1.00	0	0	439	1,063	1,853	1,571	1,054	1,382	1,650	1,174	328	0				
TOTAL		0	0	531	1,514	3,182	5,270	7,012	6,313	3,824	1,673	349	0	29,669	kWh		
												7.4 avg. kW	29,669				
Monthly peak kW:												Adj Factor to match exist kW		0.61			
												20.11	20.11	12.21	175.5	kW	175.5
New Unit												Adj. Factor to match exist kW		0.73			
kW Peak % Load																	
% Load	KW/Ton	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC				
100%	1.08	0	0	0	0	0	0	199	99	0	0	0	0				
75%	1.00	0	0	0	0	14	358	1,198	895	193	14	0	0				
50%	0.91	0	0	76	370	1,077	2,675	3,483	3,045	1,590	395	17	0				
25%	0.83	0	0	363	879	1,533	1,300	872	1,143	1,365	971	271	0				
TOTAL		0	0	439	1,249	2,623	4,333	5,751	5,183	3,147	1,380	288	0	24,393	kWh		
Monthly Peak kW												6.1 avg. kW		143.0			
												kW	143.0				
Total kWh Savings												5,276 kWh		5,276			
Total kW Savings												32 kW		32			
Run Hours																	
Load	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
100%	0	0	0	0	0	0	10	5	0	0	0	0					
75%	0	0	0	0	1	26	87	65	14	1	0	0					
50%	0	0	9	44	128	318	414	362	189	47	2	0					
25%	0	0	95	230	401	340	228	299	357	254	71	0					
KANSAS CITY MO WEATHER BIN DATA																	
100%	105/109	0	0	0	0	0	0	3	1	0	0	0	0				
	100/104	0	0	0	0	0	0	7	4	0	0	0	0				
75%	95/99	0	0	0	0	0	3	22	18	2	0	0	0				
	90/94	0	0	0	0	1	23	65	47	12	1	0	0				
50%	85/89	0	0	0	4	10	66	116	86	31	4	0	0				
	80/84	0	0	2	11	39	113	143	126	65	13	1	0				
	75/79	0	0	7	29	79	139	155	150	93	30	1	0				
25%	70/74	0	2	16	51	112	150	137	160	119	57	7	0				
	65/69	1	6	32	76	146	121	64	96	123	86	22	3				
	60/64	3	15	47	103	143	69	27	43	115	111	42	13				
Economizer	55/59	12	25	66	112	105	28	5	11	82	119	62	15				
	50/54	21	39	77	108	66	7	0	2	51	115	77	29				
	45/49	34	44	97	95	31	2	0	0	21	99	91	51				
	40/44	68	76	107	68	11	0	0	0	4	62	113	78				
25% Heat	35/39	92	97	96	38	1	0	0	0	1	36	122	125				
	30/34	127	107	96	18	0	0	0	0	0	9	90	161				
	25/29	105	88	54	5	0	0	0	0	0	2	53	109				
	20/24	83	64	29	2	0	0	0	0	0	0	25	70				
	15/19	65	45	12	0	0	0	0	0	0	0	9	41				
50% Heat	10/14	51	33	3	0	0	0	0	0	0	0	4	22				
	5/9	42	15	3	0	0	0	0	0	0	0	2	13				
	0/4	23	9	0	0	0	0	0	0	0	0	0	9				
75% Heat	-5/-1	10	3	0	0	0	0	0	0	0	0	0	2				
	-10/-6	6	3	0	0	0	0	0	0	0	0	0	3				
	-15/-11	0	0	0	0	0	0	0	0	0	0	0	0				
100% Heat	-20/-16	0	0	0	0	0	0	0	0	0	0	0	0				
Annual Energy Savings For ECM From Mechanical Refrigeration Savings												kWh	5,276				
												kW	32				



ENERGY SAVINGS CALCULATIONS: HEATING SAVINGS

ECM #56

Annual Energy Consumption **therm** **1,385**

HEATING SAVINGS:
Total MBH Output
Total Heating Run Hours

470 Replaced MBH 470 % of Replaced/Total MBH 1

Existing Heating therm 1,522
BAS Heating Savings 137

Heating Type: Fuel Fired Electric

Existing Unit		thermal eff.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
% Load																
100%	80%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75%	80%	5	2	0	0	0	0	0	0	0	0	0	0	0	2	
50%	80%	13	8	1	0	0	0	0	0	0	0	0	1	6		
25%	80%	19	18	15	5	0	0	0	0	0	0	4	16	22		
TOTAL			37	27	17	5	0	0	0	0	0	4	18	30	1,385	therm

1,385 therm

Adj Factor to match exist therms **0.28**

New Unit		thermal eff.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
% Load																
100%	81%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75%	81%	5	2	0	0	0	0	0	0	0	0	0	0	2		
50%	81%	13	7	1	0	0	0	0	0	0	0	0	1	6		
25%	81%	19	17	15	5	0	0	0	0	0	0	4	16	22		
TOTAL			36	27	17	5	0	0	0	0	0	4	17	30	1,367	therm

1,367 therm

Total therm Savings **5 3 2 1 0 0 0 0 0 0 0 1 2 4** **17 therm**

Run Hours	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
100%	0	0	0	0	0	0	0	0	0	0	0	0
75%	39	15	0	0	0	0	0	0	0	0	0	14
50%	158	93	18	0	0	0	0	0	0	0	15	76
25%	475	432	382	131	12	0	0	0	5	109	403	543

Summer Savings therm 0
Winter Savings therm 171

9.5. ECM #87 – Optimization Services / Data Analytics

Refer to Figure 9.3 for the Optimization Services / Data Analytics Savings Calculation.



Figure 9.3 Optimization Services / Data Analytics Savings Calculation

Optimization Services / Data Analytics Savings Calculation

		kWh												
ECM #	BUILDING	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
87	USD 455 Food Service Building	2,190.67	1,983.26	2,190.67	2,121.53	2,190.67	1,928.70	1,997.83	1,997.83	1,928.70	2,190.67	2,121.53	2,190.67	25,032.74

		therms												
ECM #	BUILDING	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
87	USD 455 Food Service Building	9.27	11.03	2.14	-1.76	-3.47	-4.81	-5.01	-4.24	-3.48	-2.32	0.68	7.03	5.07

A group of students walking in a school hallway. The foreground features a young woman with long brown hair, wearing a grey and white striped t-shirt and denim shorts, smiling and carrying a colorful backpack. Behind her, other students are visible, including a girl in a blue sequined shirt and a boy in a plaid shirt. The background shows yellow school lockers.

**OPERATIONS & MAINTENANCE
BUILDING**

10

10.1. ECM #15 – LED Lighting Retro-Fit

Refer to Section 11 for the LED Lighting Retro-Fit Line by Line full scope of work. Refer to Figure 10.1 for the LED Lighting Retro-Fit Savings Calculation.



Figure 10.1 LED Lighting Retro-Fit Savings Calculation

ECM #	Location	Measure	From UAT kWhRev		Existing				New				Savings	
			kWh Interior	kWh Exterior	kW Interior	kW Exterior	kWh Interior	kWh Exterior	kW Interior	kW Exterior	kWh Interior	kWh Exterior	kW	kWh
15	Operations & Maintenance Building	LED Lighting Retro-Fit (Option A)	10,771	1,226	5.01	0.02	10,791	158	1.87	0.05	4,026	412	3.11	6,511

kW Savings															
ECM #	Location	Measure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
15	Operations & Maintenance Building	LED Lighting Retro-Fit (Option A)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	3.11

kWh Savings															
ECM #	Location	Measure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
15	Operations & Maintenance Building	LED Lighting Retro-Fit (Option A)	543	543	543	543	543	543	543	543	543	543	543	543	6,511

10.2. ECM #88 – Optimization Services / Data Analytics

Refer to Figure 10.2 for the Optimization Services / Data Analytics Savings Calculation.



Figure 10.2 Optimization Services / Data Analytics Savings Calculation

Optimization Services / Data Analytics Savings Calculation

		kWh												
ECM #	BUILDING	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
88	Operations & Maintenance Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

		therms												
ECM #	BUILDING	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
88	Operations & Maintenance Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



**LIGHTING FIXTURE RETROFIT
LINE-BY-LINE**

11

Scope of Work

Location			Existing Fixture			Proposed Fixture			kW		
Building	Floor	Room	Fixture	Quantity	Input Wattage	ECM	Quantity	Input Wattage	Pre	Post	Savings
Board of Education Office	Exterior	Side Door	10" Rec Sq. LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Board of Education Office	Exterior	Back Door	10" Rec Sq. LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Board of Education Office	Exterior	Side Parking Lot	Wall Pack LED 24W Corn Cob	1	24	Wall Pack LED FT TWX 5 kLm PC	1	36	0.0	0.0	0.0
Board of Education Office	Exterior	Parking Lot Front	Wall Pack LED 24W Corn Cob	1	24	Wall Pack LED FT TWX 5 kLm PC	1	36	0.0	0.0	0.0
Board of Education Office	1st floor	Main Entrance Vestibule	10" Rec Sq. LED 9W A	3	9	LED 9W A19 Replacement	3	10	0.0	0.0	0.0
Board of Education Office	1st floor	Hallway	2x2 Flat Panel Rec LED 39W Dim	5	39	No Action - Existing Efficient/LED Fixture	5	39	0.2	0.2	0.0
Board of Education Office	1st floor	Breakroom Alcove	2x2 Flat Panel Rec LED 39W Dim	2	39	No Action - Existing Efficient/LED Fixture	2	39	0.1	0.1	0.0
Board of Education Office	1st floor	Restroom (Private)	2x2 Flat Panel Rec LED 39W	1	39	No Action - Existing Efficient/LED Fixture	1	39	0.0	0.0	0.0
Board of Education Office	1st floor	Restroom (Private)	Vanity LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Board of Education Office	1st floor	Open Area	2X4 Prism Rec 3L 32W T8	9	89	RT, 4' 10.5W DE LED 3L	9	32	0.8	0.3	0.5
Board of Education Office	1st floor	Open Area - Desk	6" Rec Can Inc 65W R30	6	65	LED 8W BR30 Replacement	6	8	0.4	0.0	0.3
Board of Education Office	1st floor	Open Area - Accent	Track Head LED 6W MR16	8	6	LED 6W MR16 Replacement	8	6	0.0	0.0	0.0
Board of Education Office	1st floor	Private Office	2X4 Prism Rec 3L 32W T8 DS	6	90	RT, 4' 10.5W DE LED 3L	6	32	0.5	0.2	0.4
Board of Education Office	1st floor	Private Office	2X4 Prism Rec 3L 32W T8 DS	4	90	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	0.2
Board of Education Office	1st floor	Private Office	2X4 Prism Rec 3L 32W T8 DS	6	90	RT, 4' 10.5W DE LED 3L	6	32	0.5	0.2	0.4
Board of Education Office	1st floor	Meeting Room - Purple	2X4 Prism Rec 3L 32W T8	14	89	RT, 4' 10.5W DE LED 3L	14	32	1.2	0.4	0.8
Board of Education Office	1st floor	Vestibule	6" Rec Can LED 8W R30	1	8	LED 8W BR30 Replacement	1	8	0.0	0.0	0.0
Board of Education Office	1st floor	IT Closet - Off Vestibule	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Board of Education Office	1st floor	Vestibule	10" Rec Sq. LED 9W A	2	9	LED 9W A19 Replacement	2	10	0.0	0.0	0.0
Board of Education Office	1st floor	Hallway	2x2 Flat Panel Rec LED 39W Dim	7	39	No Action - Existing Efficient/LED Fixture	7	39	0.3	0.3	0.0
Board of Education Office	1st floor	Hallway - Case Lighting	Decorative LED 3W	2	3	No Action - Existing Efficient/LED Fixture	2	3	0.0	0.0	0.0
Board of Education Office	1st floor	Private Office	2X4 Prism Rec 3L 32W T8 DS	2	90	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Board of Education Office	1st floor	Private Office	2X4 Prism Rec 3L 32W T8 DS	2	90	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Board of Education Office	1st floor	Private Office	2X4 Prism Rec 3L 32W T8 DS	2	90	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Board of Education Office	1st floor	Storage Closet - Private Office	2X4 Prism Rec 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
Board of Education Office	1st floor	Conference Room	2x2 Flat Panel Rec LED 39W Dim	4	39	No Action - Existing Efficient/LED Fixture	4	39	0.2	0.2	0.0
Board of Education Office	1st floor	Conference Room	6" Rec Can LED 12W	5	12	No Action - Existing Efficient/LED Fixture	5	12	0.1	0.1	0.0
Board of Education Office	1st floor	Private Office	2X4 Prism Rec 3L 32W T8 DS	3	90	RT, 4' 10.5W DE LED 3L	3	32	0.3	0.1	0.2
Board of Education Office	1st floor	Private Office	2X4 Prism Rec 3L 32W T8 DS	2	90	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Board of Education Office	1st floor	Private Office	2X4 Prism Rec 3L 32W T8 DS	2	90	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Board of Education Office	1st floor	Private Office	2X4 Prism Rec 4L 32W T8	4	112	RT, 4' 10.5W DE LED 4L	4	42	0.4	0.2	0.3
Board of Education Office	1st floor	Storage - Tech	2X4 Prism Rec 4L 32W T8	4	112	RT, 4' 10.5W DE LED 4L	4	42	0.4	0.2	0.3
Board of Education Office	1st floor	Private Office	2X4 Prism Rec 4L 32W T8	2	112	RT, 4' 10.5W DE LED 4L	2	42	0.2	0.1	0.1
Board of Education Office	1st floor	File Storage	4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Board of Education Office	1st floor	IT Work Shop	2X4 Prism Rec 3L 32W T8 DS	8	90	RT, 4' 10.5W DE LED 3L	8	32	0.7	0.3	0.5
Board of Education Office	1st floor	IT Work Shop - Closet	2x2 Prism Rec 2L 32W UG T8	1	59	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	1	14	0.1	0.0	0.0
Board of Education Office	1st floor	Hallway	2x2 Flat Panel Rec LED 39W Dim	4	39	No Action - Existing Efficient/LED Fixture	4	39	0.2	0.2	0.0
Board of Education Office	1st floor	Private Office	2X4 Prism Rec 3L 32W T8 DS	2	90	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Board of Education Office	1st floor	Private Office	6" Rec Can LED 12W	3	12	No Action - Existing Efficient/LED Fixture	3	12	0.0	0.0	0.0
Board of Education Office	1st floor	Janitor Closet	Globe LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Board of Education Office	1st floor	Restroom - Women (Private)	2x2 Flat Panel Rec LED 39W	1	39	No Action - Existing Efficient/LED Fixture	1	39	0.0	0.0	0.0
Board of Education Office	1st floor	Restroom - Women (Private)	Vanity LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Board of Education Office	1st floor	Restroom - Men (Private)	2x2 Flat Panel Rec LED 39W	1	39	No Action - Existing Efficient/LED Fixture	1	39	0.0	0.0	0.0
Board of Education Office	1st floor	Restroom - Men (Private)	Vanity LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Board of Education Office	Exterior	Front Wall by Parking Lot	Wall Pack LED 24W Corn Cob	1	24	Wall Pack LED FT TWX 5 kLm PC	1	36	0.0	0.0	0.0
Board of Education Office	Exterior	Side Door	Wall Pack LED 24W Corn Cob	1	24	Wall Pack LED FT TWX 3.2 kLm PC	1	22	0.0	0.0	0.0
Board of Education Office	Exterior	Wall by Parking Lot / Road	Wall Pack LED 24W Corn Cob	2	24	Wall Pack LED FT TWX 5 kLm PC	2	36	0.0	0.1	0.0
Board of Education Office	Exterior	Flag	Existing LED Fixture	1	0	No Action - Existing Efficient/LED Fixture	1	0	0.0	0.0	0.0
Board of Education Office	Exterior	Flag	Flood LED 17W PAR38	1	17	LED 13W PAR38 Replacement	1	13	0.0	0.0	0.0
Board of Education Office	Exterior	Fenced in Area	Wall Pack LED 24W Corn Cob	1	24	Wall Pack LED FT TWX 3.2 kLm PC	1	22	0.0	0.0	0.0
Community Elementary School	1st floor	Main Entrance Vestibule	Low Bay CFL 42W 4P	1	48	RT, LED 8W 2P G24D/Q Omni	1	8	0.0	0.0	0.0
Community Elementary School	1st floor	Main Entrance Vestibule	Asymmetric Uplight CMH 150W T6	4	169	Flood LED 5.4 kLm YK	4	42	0.7	0.2	0.5
Community Elementary School	1st floor	Lobby	Low Bay CFL 42W 4P	1	48	RT, LED 8W 2P G24D/Q Omni	1	8	0.0	0.0	0.0
Community Elementary School	1st floor	Lobby - Desk	Track Head LED 7W MR16	10	7	LED 6W MR16 Replacement	10	6	0.1	0.1	0.0
Community Elementary School	1st floor	Lobby	Asymmetric Uplight CMH 150W T6	6	169	Flood LED 5.4 kLm YK	6	42	1.0	0.3	0.8
Community Elementary School	1st floor	Hallway Section 1	8' Direct/Indirect TSHO 4L	4	234	RT, 4' 25W DE LED TSHO 4L	4	100	0.9	0.4	0.5
Community Elementary School	1st floor	Hallway Section 1	8' Direct/Indirect TSHO 4L	4	234	RT, 4' 25W DE LED TSHO 4L	4	100	0.9	0.4	0.5
Community Elementary School	1st floor	Hallway Section 1 - Accent	Track Head Hal 75W PAR38	7	75	LED 13W PAR38 Replacement	7	13	0.5	0.1	0.4
Community Elementary School	1st floor	Vestibule South by 006	8' Direct/Indirect TSHO 4L	1	234	RT, 4' 25W DE LED TSHO 4L	1	100	0.2	0.1	0.1
Community Elementary School	1st floor	Electrical Closet off Vestibule	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Community Elementary School	1st floor	PTO - 009	2X4 Prism Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
Community Elementary School	1st floor	Hallway	2X4 Prism Rec 2L 32W T8	7	59	RT, 4' 10.5W DE LED 2L	7	21	0.4	0.1	0.3
Community Elementary School	1st floor	Reception	2X4 Prism Rec 2L 32W T8	6	59	RT, 4' 10.5W DE LED 2L	6	21	0.4	0.1	0.2
Community Elementary School	1st floor	Lobby	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Community Elementary School	1st floor	Nurse Office	2X4 Prism Rec 3L 32W T8	5	89	RT, 4' 10.5W DE LED 3L	5	32	0.4	0.2	0.3
Community Elementary School	1st floor	Nurse - Beds	6" Rec Can LED 17W PAR38	5	17	LED 13W PAR38 Replacement	5	13	0.1	0.1	0.0
Community Elementary School	1st floor	Nurse - Exam	2X4 Prism Rec 2L 32W T8	2	89	RT, 4' 10.5W DE LED 2L	2	32	0.2	0.1	0.1
Community Elementary School	1st floor	Nurse - Restroom (Private)	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Community Elementary School	1st floor	Restroom - Women (Private)	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Community Elementary School	1st floor	Restroom - Men (Private)	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Community Elementary School	1st floor	Private Office - 006	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Community Elementary School	1st floor	Private Office - 008	2X4 Prism Rec 3L 32W T8	3	89	RT, 4' 10.5W DE LED 3L	3	32	0.3	0.1	0.2
Community Elementary School	1st floor	Breakroom - 004	2X4 Prism Rec 3L 32W T8	4	89	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	0.2
Community Elementary School	1st floor	Storage	2X4 Prism Rec 3L 32W T8	4	89	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	0.2
Community Elementary School	1st floor	Private Office - 003	2X4 Prism Rec 3L 32W T8	3	89	RT, 4' 10.5W DE LED 3L	3	32	0.3	0.1	0.2
Community Elementary School	1st floor	Private Office - 002	2X4 Prism Rec 3L 32W T8	3	89	RT, 4' 10.5W DE LED 3L	3	32	0.3	0.1	0.2
Community Elementary School	1st floor	Hallway Section 2	8' Direct/Indirect TSHO 4L	6	234	RT, 4' 25W DE LED TSHO 4L	6	100	1.4	0.6	0.8
Community Elementary School	1st floor	Hallway Section 2	8' Direct/Indirect TSHO 4L	6	234	RT, 4' 25W DE LED TSHO 4L	6	100	1.4	0.6	0.8
Community Elementary School	1st floor	Hallway Section 2 - Accent	Track Head Hal 75W PAR38	7	75	LED 13W PAR38 Replacement	7	13	0.5	0.1	0.4
Community Elementary School	1st floor	Janitor Closet	4' Strip BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Community Elementary School	1st floor	Lecture	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	0.7
Community Elementary School	1st floor	Lecture	2X4 Prism Rec 3L 32W T8 DS	1	90	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
Community Elementary School	1st floor	Lecture	2X4 Prism Rec 3L 32W T8 DS	2	90	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Community Elementary School	1st floor	Lecture - Storage	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Community Elementary School	1st floor	Entrance	2X2 Par Rec 3L T8	9	47	RT, 2' 7W DE LED 3L	9	21	0.4	0.2	0.2
Community Elementary School	1st floor	Entrance	2X2 Par Rec 3L T8	1	47	RT, 2' 7W DE LED 3L	1	21	0.0	0.0	0.0
Community Elementary School	1st floor	Up Lights	8' Industrial BP 4L 32W T8	32	112	RT, 4' 10.5W DE LED 4L	32	42	3.6	1.3	2.2
Community Elementary School	1st floor	Up Lights	4' Industrial BP 2L 32W T8	18	59	RT, 4' 10.5W DE LED 2L	18	21	1.1	0.4	0.7
Community Elementary School	1st floor	Library	4' Wall Bracket BP 2L 32W T8	8	59	RT, 4' 10.5W DE LED 1L	8	11	0.5	0.1	0.4
Community Elementary School	1st floor	OT Room - 12604	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	0.7
Community Elementary School	1st floor	OT Room - 12604	2X4 Prism Rec 3L 32W T8 DS	1	90	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
Community Elementary School	1st floor	OT Room - 12604	2X4 Prism Rec 3L 32W T8 DS	2	90	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Community Elementary School	1st floor	Desk	Track Head Hal 50W MR16	8	60	LED 6W MR16 Replacement	8	6	0.5	0.0	0.4
Community Elementary School	1st floor	Open Area	2X4 Par Rec 3L 32W T8 DS Master/Satelli	14	90	RT, 4' 10.5W DE LED 3L	14	32			

Scope of Work

Location			Existing Fixture			Proposed Fixture			kW		
Building	Floor	Room	Fixture	Quantity	Input Wattage	ECM	Quantity	Input Wattage	Pre	Post	Savings
Community Elementary School	1st floor	Hallway at Steps	8' Direct/Indirect T5HO 4L	6	234	RT, 4' 25W DE LED T5HO 4L	6	100	1.4	0.6	0.8
Community Elementary School	1st floor	Hallway at Steps	4' Direct/Indirect T5HO 4L	2	234	RT, 4' 25W DE LED T5HO 4L	2	100	0.5	0.2	0.3
Community Elementary School	1st floor	Hallway at Steps - Case Lighting	6" Rec Can Hal 75W PAR38	4	75	LED 9W A19 Replacement	4	10	0.3	0.0	0.3
Community Elementary School	1st floor	Hallway Section 3	8' Direct/Indirect T5HO 4L	12	234	RT, 4' 25W DE LED T5HO 4L	12	100	2.8	1.2	1.6
Community Elementary School	1st floor	Hallway Section 3	8' Direct/Indirect T5HO 4L	12	234	RT, 4' 25W DE LED T5HO 4L	12	100	2.8	1.2	1.6
Community Elementary School	1st floor	Hallway Section 3 - Accent	Track Head Hal 75W PAR38	14	75	LED 13W PAR38 Replacement	14	13	1.1	0.2	0.9
Community Elementary School	1st floor	Vestibule (North) by Kitchen	8' Direct/Indirect T5HO 4L	1	234	RT, 4' 25W DE LED T5HO 4L	1	100	0.2	0.1	0.1
Community Elementary School	1st floor	Mech Closet by Water Fountain	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Court	High Bay T5HO 4L	21	234	High Bay Compact LED 18 kLm, WG	21	133	4.9	2.8	2.1
Community Elementary School	1st floor	Court	High Bay T5HO 4L D5	4	234	High Bay Compact LED 18 kLm, WG	4	133	0.9	0.5	0.4
Community Elementary School	1st floor	Entrance 1	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	PE Office	2X4 Prism Rec 3L 32W T8 D5	2	90	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Community Elementary School	1st floor	PE Office - Restroom	4' Vaportight BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Storage Room	4' Strip BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Community Elementary School	1st floor	Entrance 2	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Storage	4' Strip BP 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
Community Elementary School	1st floor	Storage	4' Strip BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Community Elementary School	1st floor	Mechanical Room	4' Strip BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Community Elementary School	1st floor	Classroom 12301	2X4 Prism Rec 3L 32W T8 D5 Master/Satelli	2	90	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Community Elementary School	1st floor	Steps to MU1	2X4 Prism Rec 3L 32W T8 D5	1	90	RT, 4' 10.5W DE LED 3L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Classroom MU1 - 12701	2X4 Prism Rec 3L 32W T8 D5 Master/Satelli	10	90	RT, 4' 10.5W DE LED 3L	10	32	0.9	0.3	0.6
Community Elementary School	1st floor	Classroom MU1 - 12701	2X4 Prism Rec 3L 32W T8 D5	3	90	RT, 4' 10.5W DE LED 3L	3	32	0.3	0.1	0.2
Community Elementary School	1st floor	Storage Closet 1	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Storage Closet 2	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Entrance	4' Vaportight BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Locker Room	2X2 Prism Rec 4L T8	2	61	RT, 2' 7W DE LED 4L	2	28	0.1	0.1	0.1
Community Elementary School	1st floor	Locker Room	2X4 Prism Rec 2L 32W T8	5	59	RT, 4' 10.5W DE LED 2L	5	21	0.3	0.1	0.2
Community Elementary School	1st floor	Shower	4' Vaportight BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Community Elementary School	1st floor	Locker Room	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
Community Elementary School	1st floor	Entrance	4' Vaportight BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Locker Room	2X2 Prism Rec 4L T8	2	61	RT, 2' 7W DE LED 4L	2	28	0.1	0.1	0.1
Community Elementary School	1st floor	Locker Room	2X4 Prism Rec 2L 32W T8	5	59	RT, 4' 10.5W DE LED 2L	5	21	0.3	0.1	0.2
Community Elementary School	1st floor	Shower	4' Vaportight BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Community Elementary School	1st floor	Locker Room	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
Community Elementary School	1st floor	Steps to MU2	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Classroom MU1 - 12702	2X4 Prism Rec 3L 32W T8 D5 Master/Satelli	10	90	RT, 4' 10.5W DE LED 3L	10	32	0.9	0.3	0.6
Community Elementary School	1st floor	Classroom MU1 - 12702	2X4 Prism Rec 3L 32W T8 D5	3	90	RT, 4' 10.5W DE LED 3L	3	32	0.3	0.1	0.2
Community Elementary School	1st floor	Storage Closet 1	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Storage Closet 2	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Stage	Cylinder Hal 75W PAR38	14	75	LED 13W PAR38 Replacement	14	13	1.1	0.2	0.9
Community Elementary School	1st floor	Stage	Track Head Hal 65W PAR30	16	65	LED 10W PAR30 Replacement	16	10	1.0	0.2	0.9
Community Elementary School	1st floor	Seating	2X4 Prism Rec 3L 32W T8 D5 Master/Satelli	42	90	RT, 4' 10.5W DE LED 3L	42	32	3.8	1.3	2.5
Community Elementary School	1st floor	Seating	2X4 Prism Rec 3L 32W T8 D5	5	90	RT, 4' 10.5W DE LED 3L	5	32	0.5	0.2	0.3
Community Elementary School	1st floor	Seating	2X4 Prism Rec 3L 32W T8 D5	5	90	RT, 4' 10.5W DE LED 3L	5	32	0.5	0.2	0.3
Community Elementary School	1st floor	Entrance 1	2X4 Prism Rec 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
Community Elementary School	1st floor	Storage Room	4' Strip BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Community Elementary School	1st floor	Storage Room	4' Strip BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Community Elementary School	1st floor	SD Classroom - 12700	2X4 Prism Rec 3L 32W T8	6	89	RT, 4' 10.5W DE LED 3L	6	32	0.5	0.2	0.3
Community Elementary School	1st floor	Entrance 2	2X4 Prism Rec 3L 32W T8 D5	1	90	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
Community Elementary School	1st floor	Storage Room	4' Strip BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Community Elementary School	1st floor	Storage Closet	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Office / Storage	4' Industrial BP 2L 32W T8	12	59	RT, 4' 10.5W DE LED 2L	12	21	0.7	0.3	0.5
Community Elementary School	1st floor	Private Office - 12705	4' Industrial BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Community Elementary School	1st floor	Janitor Closet	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Passage	2X4 Prism Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
Community Elementary School	1st floor	Mechanical / Storage	4' Strip BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Community Elementary School	1st floor	Dish Wash	2X4 Prism Rec 3L 32W T8	8	89	RT, 4' 10.5W DE LED 3L	8	32	0.7	0.3	0.5
Community Elementary School	1st floor	Serving Area	2X4 Prism Rec 3L 32W T8 D5	14	90	RT, 4' 10.5W DE LED 3L	14	32	1.3	0.4	0.8
Community Elementary School	1st floor	Serving Area	2X4 Prism Rec 3L 32W T8 D5	4	90	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	0.2
Community Elementary School	1st floor	Locker Room	2X2 Prism Rec 4L T8	1	47	RT, 2' 7W DE LED 3L	1	21	0.0	0.0	0.0
Community Elementary School	1st floor	Restroom (Private) off LR	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Restroom (Private) off LR	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	By Exit Door	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Prep	2X4 Prism Rec 4L 32W T8 D5	23	118	RT, 4' 10.5W DE LED 4L	23	42	2.7	1.0	1.7
Community Elementary School	1st floor	Prep	2X4 Prism Rec 4L 32W T8 D5	6	118	RT, 4' 10.5W DE LED 4L	6	42	0.7	0.3	0.5
Community Elementary School	1st floor	Prep	2X2 Prism Rec 4L T8	3	61	RT, 2' 7W DE LED 4L	3	28	0.2	0.1	0.1
Community Elementary School	1st floor	Hood	Jelly Jar Inc 60W A	4	60	LED 9W A19 Replacement	4	10	0.2	0.0	0.2
Community Elementary School	1st floor	Cooler	Jelly Jar LED 9W A	4	9	LED 9W A19 Replacement	4	10	0.0	0.0	0.0
Community Elementary School	1st floor	Freezer	Jelly Jar Inc 60W A	3	60	LED 9W A19 Replacement	3	10	0.2	0.0	0.2
Community Elementary School	1st floor	Freezer	Jelly Jar LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Community Elementary School	1st floor	Private Office	2X4 Prism Rec 3L 32W T8 D5 Master/Satelli	4	90	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	0.2
Community Elementary School	1st floor	Private Office	2X4 Prism Rec 3L 32W T8 D5 Master/Satelli	4	90	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	0.2
Community Elementary School	1st floor	Janitor Closet / Wash	4' Vaportight BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Dry Storage Room	4' Strip BP 2L 32W T8	12	59	RT, 4' 10.5W DE LED 2L	12	21	0.7	0.3	0.5
Community Elementary School	1st floor	Storage	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Laundry	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Community Elementary School	1st floor	Dock and Receiving	4' Industrial BP 2L 32W T8	8	59	RT, 4' 10.5W DE LED 2L	8	21	0.5	0.2	0.3
Community Elementary School	1st floor	Storage Closet	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Copy Room - 12901	2X4 Prism Rec 3L 32W T8	12	89	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	0.7
Community Elementary School	1st floor	Hallway & Vestibule	2X4 Prism Rec 2L 32W T8	8	59	RT, 4' 10.5W DE LED 2L	8	21	0.5	0.2	0.3
Community Elementary School	1st floor	Restroom - Boy & Girls	2X4 Prism Rec 2L 32W T8	8	59	RT, 4' 10.5W DE LED 2L	8	21	0.5	0.2	0.3
Community Elementary School	1st floor	Restroom - Boy & Girls	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Janitor Closet - Boys Restroom	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Hallway & Vestibule	2X4 Prism Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
Community Elementary School	1st floor	Hallway & Vestibule	1x4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Classroom - 532	2X4 Prism Rec 3L 32W T8 D5 Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	0.7
Community Elementary School	1st floor	Classroom - 530	2X4 Prism Rec 3L 32W T8 D5 Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	0.7
Community Elementary School	1st floor	Classroom - 528	2X4 Prism Rec 3L 32W T8 D5 Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	0.7
Community Elementary School	1st floor	Classroom - 526	2X4 Prism Rec 3L 32W T8 D5 Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	0.7
Community Elementary School	1st floor	Classroom - 524	2X4 Prism Rec 3L 32W T8 D5 Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	0.7
Community Elementary School	1st floor	Electrical Closet by Vestibule	4' Industrial BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Community Elementary School	1st floor	Classroom - 518	2X4 Prism Rec 3L 32W T8 D5 Master/Satelli	10	90	RT, 4' 10.5W DE LED 3L	10	32	0.9	0.3	0.6
Community Elementary School	1st floor	Classroom - 516	2X4 Prism Rec 3L 32W T8 D5 Master/Satelli	10	90	RT, 4' 10.5W DE LED 3L	10	32	0.9	0.3	0.6
Community Elementary School	1st floor	Storage Room	4' Strip BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Community Elementary School	1st floor	Storage	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Private Office / Classroom 531	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Community Elementary School	1st floor	Workroom 506	2X4 Prism Rec 3L 32W T8	6	89	RT, 4' 10.5W DE LED 3L	6	32	0.5	0.2	0.3
Community Elementary School	1st floor	Workroom 506 - Restroom Women	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Breakroom - 508	2X4 Prism Rec 3L 32W T8	4	89	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	0.2
Community Elementary School	1st floor	Restroom - Men (Private)	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Community Elementary School	1st floor	Private Office	2X4 Prism Rec 3L 32W T8 D5 Master/Satelli	2	90	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Community Elementary School	1st floor	Private Office	2X4 Prism Rec 3L 32W T8 D5 Master/Satelli	2							

Scope of Work

Location			Existing Fixture			Proposed Fixture			kW		
Building	Floor	Room	Fixture	Quantity	Input Wattage	ECM	Quantity	Input Wattage	Pre	Post	Savings
Community Elementary School	Exterior	Back Wall - Side Walk	Wall Pack LED 24W Corn Cob	2	24	No Action - Existing Efficient/LED Fixture	2	24	0.0	0.0	0.0
Community Elementary School	Exterior	Hallway - Door	Vandal Proof LED 20W Corn Cob	1	20	No Action - Existing Efficient/LED Fixture	1	20	0.0	0.0	0.0
Community Elementary School	Exterior	Back Wall	Wall Pack LED 24W Corn Cob	3	24	No Action - Existing Efficient/LED Fixture	3	24	0.1	0.1	0.0
Community Elementary School	Exterior	Hallway - Door	Vandal Proof LED 20W Corn Cob	1	20	No Action - Existing Efficient/LED Fixture	1	20	0.0	0.0	0.0
Community Elementary School	Exterior	Back Parking Lot	Shoeblox LED 155W	4	155	No Action - Existing Efficient/LED Fixture	4	155	0.6	0.6	0.0
Community Elementary School	Exterior	Hallway - Door	Vandal Proof LED 20W Corn Cob	1	20	No Action - Existing Efficient/LED Fixture	1	20	0.0	0.0	0.0
Community Elementary School	Exterior	Back Wall	Wall Pack LED 24W Corn Cob	2	24	No Action - Existing Efficient/LED Fixture	2	24	0.0	0.0	0.0
Community Elementary School	Exterior	Hallway - Door	Vandal Proof LED 20W Corn Cob	1	20	No Action - Existing Efficient/LED Fixture	1	20	0.0	0.0	0.0
Community Elementary School	Exterior	Exit Door Access	Vandal Proof LED 20W Corn Cob	1	20	No Action - Existing Efficient/LED Fixture	1	20	0.0	0.0	0.0
Community Elementary School	Exterior	Hallway - Door	Vandal Proof LED 20W Corn Cob	1	20	No Action - Existing Efficient/LED Fixture	1	20	0.0	0.0	0.0
Community Elementary School	Exterior	Back Wall	Wall Pack LED 24W Corn Cob	4	24	No Action - Existing Efficient/LED Fixture	4	24	0.1	0.1	0.0
Community Elementary School	Exterior	Hallway - Door	Vandal Proof LED 20W Corn Cob	1	20	No Action - Existing Efficient/LED Fixture	1	20	0.0	0.0	0.0
Community Elementary School	Exterior	Hallway - Door	Vandal Proof LED 20W Corn Cob	1	20	No Action - Existing Efficient/LED Fixture	1	20	0.0	0.0	0.0
Community Elementary School	1st floor	Room	4' Strip BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Community Elementary School	Exterior	Back Wall	Wall Pack LED 24W Corn Cob	1	24	No Action - Existing Efficient/LED Fixture	1	24	0.0	0.0	0.0
Community Elementary School	Exterior	Side Wall	Wall Pack LED 24W Corn Cob	3	24	No Action - Existing Efficient/LED Fixture	3	24	0.1	0.1	0.0
Community Elementary School	Exterior	Side Asphalt Loop	Shoeblox LED 155W	3	155	No Action - Existing Efficient/LED Fixture	3	155	0.5	0.5	0.0
Community Elementary School	Exterior	Hallway Door	Vandal Proof LED 20W Corn Cob	2	20	No Action - Existing Efficient/LED Fixture	2	20	0.0	0.0	0.0
Community Elementary School	Exterior	Door	Wall Pack LED 24W Corn Cob	3	24	No Action - Existing Efficient/LED Fixture	3	24	0.1	0.1	0.0
Community Elementary School	Exterior	Door	Wall Pack MH 100W	1	128	LED Omni Retrofit 3 klm Med Base	1	27	0.1	0.0	0.1
Community Elementary School	Exterior	Door	Vandal Proof LED 20W Corn Cob	1	20	No Action - Existing Efficient/LED Fixture	1	20	0.0	0.0	0.0
Community Elementary School	Exterior	Kitchen Door	Canopy LED 10W	1	10	No Action - Existing Efficient/LED Fixture	1	10	0.0	0.0	0.0
Community Elementary School	Exterior	Front Wall	Wall Pack LED 24W Corn Cob	10	24	No Action - Existing Efficient/LED Fixture	10	24	0.2	0.2	0.0
Community Elementary School	Exterior	Door	Vandal Proof LED 20W Corn Cob	1	20	No Action - Existing Efficient/LED Fixture	1	20	0.0	0.0	0.0
Community Elementary School	Exterior	Front Wall	Wall Pack LED 24W Corn Cob	2	24	No Action - Existing Efficient/LED Fixture	2	24	0.0	0.0	0.0
Community Elementary School	Exterior	Door	Vandal Proof LED 20W Corn Cob	1	20	No Action - Existing Efficient/LED Fixture	1	20	0.0	0.0	0.0
Community Elementary School	Exterior	Front Parking Lot	Shoeblox LED 155W	6	155	No Action - Existing Efficient/LED Fixture	6	155	0.9	0.9	0.0
Community Elementary School	Exterior	Door	Vandal Proof LED 20W Corn Cob	1	20	No Action - Existing Efficient/LED Fixture	1	20	0.0	0.0	0.0
Community Elementary School	Exterior	Entrance	Vandal Proof LED 20W Corn Cob	4	20	No Action - Existing Efficient/LED Fixture	4	20	0.1	0.1	0.0
Community Elementary School	Exterior	Side Parking Lot	Shoeblox LED 155W	3	155	No Action - Existing Efficient/LED Fixture	3	155	0.5	0.5	0.0
JH Early Childhood Center	1st floor	Vestibule	None Existing	0	0	No Action	0	0	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Open Office	2X4 Prism Rec 3L 32W T8 DS	13	90	RT, 4' 10.5W DE LED 3L	13	32	1.2	0.4	0.8
JH Early Childhood Center	1st floor	Long Hallway	2X4 Prism Rec 2L 32W T8	21	59	RT, 4' 10.5W DE LED 2L	21	21	1.2	0.4	0.8
JH Early Childhood Center	1st floor	Long Hallway	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Vestibule by Classroom 113	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
JH Early Childhood Center	1st floor	Vestibule by Classroom 101	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
JH Early Childhood Center	1st floor	Alcove by Multi-Purpose Room	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
JH Early Childhood Center	1st floor	Classroom - 107	8' Wrap BP 4L 32W T8	5	112	RT, 4' 10.5W DE LED 4L	5	42	0.6	0.2	0.4
JH Early Childhood Center	1st floor	Classroom - 107	4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Classroom - 107 - Exterior Door	Exit Sign Combo LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Classroom - 107 - Restroom	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
JH Early Childhood Center	1st floor	Restroom - Girls	2x2 Prism Rec 2L 32W U6 T8	3	59	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	3	14	0.2	0.0	0.1
JH Early Childhood Center	1st floor	Restroom - Girls	Vanity LED 9W A	2	9	LED 9W A19 Replacement	2	10	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Janitor Closet	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
JH Early Childhood Center	1st floor	Restroom - Boys	2x2 Prism Rec 2L 32W U6 T8	3	59	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	3	14	0.2	0.0	0.1
JH Early Childhood Center	1st floor	Passage to Multi-Purpose Room	2X4 Prism Rec 2L 32W T8	3	59	RT, 4' 10.5W DE LED 2L	3	21	0.2	0.1	0.1
JH Early Childhood Center	1st floor	Multi-Purpose Room	High Bay NH 400W	12	458	High Bay Compact LED 18 klm, WG	12	133	5.5	1.6	3.9
JH Early Childhood Center	1st floor	Multi-Purpose Room	Exit Sign Rec	2	30	Exit Sign LED Retrofit	2	4	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Multi-Purpose Room - Storage	4' Strip BP 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
JH Early Childhood Center	1st floor	Passage	Drum LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Old Stage / Storage	RLM LED 9W A	8	9	LED 9W A19 Replacement	8	10	0.1	0.1	0.0
JH Early Childhood Center	Mezzanine	Mezzanine	Drum Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
JH Early Childhood Center	Mezzanine	Storage	Drum Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Mechanical Room	Keyless Inc 150W A	1	150	LED 9W A19 Replacement	1	10	0.2	0.0	0.1
JH Early Childhood Center	1st floor	Private Office	8' Wrap BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Classroom - 109	8' Wrap BP 4L 32W T8	4	112	RT, 4' 10.5W DE LED 4L	4	42	0.4	0.2	0.3
JH Early Childhood Center	1st floor	Classroom - 109	4' Wrap BP 2L 32W T8	3	59	RT, 4' 10.5W DE LED 2L	3	21	0.2	0.1	0.1
JH Early Childhood Center	1st floor	Classroom - 109 - Exterior Door	Exit Sign Combo LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Classroom - 109 - Restroom	2X4 Prism Sur 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Classroom - 109 - Sink	3' Undercabinet 1L 25W T8	1	26	RT, 3' 12W DE LED 1L	1	12	0.0	0.0	0.0
JH Early Childhood Center	1st floor	109 / 111 Shared Storage	2x2 Prism Rec 2L 32W U6 T8	1	59	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	1	14	0.1	0.0	0.0
JH Early Childhood Center	1st floor	Classroom - 111	8' Wrap BP 4L 32W T8	5	112	RT, 4' 10.5W DE LED 4L	5	42	0.6	0.2	0.4
JH Early Childhood Center	1st floor	Classroom - 111	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
JH Early Childhood Center	1st floor	Classroom - 111 - Exit Door	Exit Sign Combo LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Classroom - 111 - Restroom	2X4 Prism Sur 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
JH Early Childhood Center	1st floor	Classroom - 111 - Sink	3' Undercabinet 1L 25W T8	1	26	RT, 3' 12W DE LED 1L	1	12	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Classroom - 113	8' Wrap BP 4L 32W T8	13	112	RT, 4' 10.5W DE LED 4L	13	42	1.5	0.5	0.9
JH Early Childhood Center	1st floor	Classroom - 113 - Exit Door	Exit Sign Combo LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Classroom - 113 - Restroom	2X4 Prism Sur 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
JH Early Childhood Center	1st floor	Classroom - 113 - Sink	3' Undercabinet 1L 25W T8	1	26	RT, 3' 12W DE LED 1L	1	12	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Classroom - 120	8' Wrap BP 4L 32W T8	6	112	RT, 4' 10.5W DE LED 4L	6	42	0.7	0.3	0.4
JH Early Childhood Center	1st floor	Classroom - 120	4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Classroom - 120 - Restroom	Vanity Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Classroom - 120 - Restroom - Shared	Vanity Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Classroom - 118	8' Wrap BP 4L 32W T8	5	112	RT, 4' 10.5W DE LED 4L	5	42	0.6	0.2	0.4
JH Early Childhood Center	1st floor	Classroom - 118	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
JH Early Childhood Center	1st floor	Classroom - 118 - Exit Door	Exit Sign Combo LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Classroom - 118 - Restroom	4' Wrap BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Classroom - 1118 - Sink	3' Undercabinet 1L 25W T8	1	26	RT, 3' 12W DE LED 1L	1	12	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Mechanical Room	4' Wrap BP 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
JH Early Childhood Center	1st floor	Janitor Closet	RLM LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Nurse Office	2X4 Prism Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
JH Early Childhood Center	1st floor	Nurse Office	2x2 Prism Rec 2L 32W U6 T8	1	59	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	1	14	0.1	0.0	0.0
JH Early Childhood Center	1st floor	Nurse Office - Restroom	Vanity LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Work Room	2X4 Prism Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
JH Early Childhood Center	1st floor	Work Room - Storage	Vanity LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Meeting Room	2X4 Prism Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
JH Early Childhood Center	1st floor	Private Office - 110	2X4 Prism Rec 3L 32W T8	3	89	RT, 4' 10.5W DE LED 3L	3	32	0.3	0.1	0.2
JH Early Childhood Center	1st floor	Storage	2X4 Prism Rec 3L 32W T8	3	89	RT, 4' 10.5W DE LED 3L	3	32	0.3	0.1	0.2
JH Early Childhood Center	1st floor	Private Office - Principal	2X4 Prism Rec 3L 32W T8	6	89	RT, 4' 10.5W DE LED 3L	6	32	0.5	0.2	0.3
JH Early Childhood Center	1st floor	Library	2X4 Prism Rec 3L 32W T8	6	89	RT, 4' 10.5W DE LED 3L	6	32	0.5	0.2	0.3
JH Early Childhood Center	1st floor	Classroom - 104	8' Wrap BP 4L 32W T8	6	112	RT, 4' 10.5W DE LED 4L	6	42	0.7	0.3	0.4
JH Early Childhood Center	1st floor	Classroom - 104	4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Classroom - 104 - Exit Door	Exit Sign Combo LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Classroom - 102	8' Wrap BP 4L 32W T8	6	112	RT, 4' 10.5W DE LED 4L	6	42	0.7	0.3	0.4
JH Early Childhood Center	1st floor	Classroom - 102	4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Classroom - 102 - Exit Door	Exit Sign Combo LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Classroom - 101	2X4 Prism Rec 3L 32W T8 DS	7	90	RT, 4' 10.5W DE LED 3L	7	32	0.6	0.2	0.4
JH Early Childhood Center	1st floor	Classroom - 101	2X4 Prism Rec 3L 32W T8 DS BB	1	90	RT, 4' 10.5W DE LED 3L BB	1	32	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Classroom - 101 - Exit Door	Exit Sign LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Classroom - 101 - Restroom	2X4 Prism Sur 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Classroom - 101 - Sink	3' Undercabinet 1L 25W T8	1	26	RT, 3' 12W DE LED 1L	1	12	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Prep	8' Wrap BP 4L 32W T8	5	112	RT, 4' 10.5W DE LED 4L	5	42	0.6	0.2	0.4
JH Early Childhood Center	1st floor	Prep	4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Hoods	Jelly Jar LED 9W A	2	9	LED 9W A19 Replacement	2	10	0.0	0.0	0.0



Scope of Work

Location			Existing Fixture			Proposed Fixture			kW		
Building	Floor	Room	Fixture	Quantity	Input Wattage	ECM	Quantity	Input Wattage	Pre	Post	Savings
JH Early Childhood Center	1st floor	Hallway by Laundry	2X4 D/ Rec 3L 32W T8	3	89	RT, 4' 10.5W DE LED 3L	3	32	0.3	0.1	0.2
JH Early Childhood Center	1st floor	Hallway by Laundry	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Hallway - Breeze Way	2X4 D/ Rec 3L 32W T8	4	89	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	0.2
JH Early Childhood Center	1st floor	Hallway - Breeze Way	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Restroom (Private)	2X4 Prism Rec 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Restroom (Private)	2X4 Prism Rec 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Storage Closet	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
JH Early Childhood Center	1st floor	Janitor Closet	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
JH Early Childhood Center	1st floor	Laundry	2X4 Prism Rec 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Hallway	2X4 D/ Rec 3L 32W T8	4	89	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	0.2
JH Early Childhood Center	1st floor	Hallway	Decorative 4L 17W T8	1	61	RT, 2' 7W DE LED 4L	1	28	0.1	0.0	0.0
JH Early Childhood Center	1st floor	Hallway	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Vestibule	2X4 D/ Rec 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Classroom - 126	2X4 D/ Rec 3L 32W T8 DS	10	90	RT, 4' 10.5W DE LED 3L	10	32	0.9	0.3	0.6
JH Early Childhood Center	1st floor	Classroom - 126	6" Rec Can LED 9W A	8	9	LED 9W A19 Replacement	8	10	0.1	0.1	0.0
JH Early Childhood Center	1st floor	Classroom - 126 - Exterior Door	Exit Sign LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Classroom - 126	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Classroom - 126 - Restroom	2X4 Prism Rec 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Shared Storage	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
JH Early Childhood Center	1st floor	Classroom - 128	2X4 D/ Rec 3L 32W T8 DS	10	90	RT, 4' 10.5W DE LED 3L	10	32	0.9	0.3	0.6
JH Early Childhood Center	1st floor	Classroom - 128	6" Rec Can LED 9W A	8	9	LED 9W A19 Replacement	8	10	0.1	0.1	0.0
JH Early Childhood Center	1st floor	Classroom - 128 - Restroom	2X4 Prism Rec 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Classroom - 124	2X4 D/ Rec 3L 32W T8 DS	10	90	RT, 4' 10.5W DE LED 3L	10	32	0.9	0.3	0.6
JH Early Childhood Center	1st floor	Classroom - 124	6" Rec Can LED 9W A	8	9	LED 9W A19 Replacement	8	10	0.1	0.1	0.0
JH Early Childhood Center	1st floor	Classroom - 124 - Restroom	2X4 Prism Rec 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
JH Early Childhood Center	1st floor	Shared Storage	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
JH Early Childhood Center	1st floor	Classroom - 122	2X4 D/ Rec 3L 32W T8 DS	10	90	RT, 4' 10.5W DE LED 3L	10	32	0.9	0.3	0.6
JH Early Childhood Center	1st floor	Classroom - 122	6" Rec Can LED 9W A	8	9	LED 9W A19 Replacement	8	10	0.1	0.1	0.0
JH Early Childhood Center	1st floor	Classroom - 122 - Exit Door	Exit Sign LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	0.0
JH Early Childhood Center	1st floor	Classroom - 122 - Restroom	2X4 Prism Rec 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
JH Early Childhood Center	Exterior	Main Entrance	None Existing	0	0	No Action	0	0	0.0	0.0	0.0
JH Early Childhood Center	Exterior	Flag Pole	None Existing	0	0	No Action	0	0	0.0	0.0	0.0
JH Early Childhood Center	Exterior	Front Wall Parking Lot	Wall Pack MH 400W	1	458	Wall Pack LED FT TWX 6.9 kLm PC	1	54	0.5	0.1	0.4
JH Early Childhood Center	Exterior	Hallway Door	Canopy LED 10W	1	10	No Action - Existing Efficient/LED Fixture	1	10	0.0	0.0	0.0
JH Early Childhood Center	Exterior	Connector Hallway Doors	Wall Pack LED 46W BB	2	46	No Action - Existing Efficient/LED Fixture	2	46	0.1	0.1	0.0
JH Early Childhood Center	Exterior	Classroom Doors	Vandal Proof LED 20W Corn Cob	4	20	No Action - Existing Efficient/LED Fixture	4	20	0.1	0.1	0.0
JH Early Childhood Center	Exterior	Classroom Doors	Vandal Proof LED 25W BB	2	25	No Action - Existing Efficient/LED Fixture	2	25	0.1	0.1	0.0
JH Early Childhood Center	Exterior	Hallway Door	Vandal Proof LED 25W BB	1	25	No Action - Existing Efficient/LED Fixture	1	25	0.0	0.0	0.0
JH Early Childhood Center	Exterior	Hallway Door	Vandal Proof LED 25W BB	1	25	No Action - Existing Efficient/LED Fixture	1	25	0.0	0.0	0.0
JH Early Childhood Center	Exterior	Classroom Doors	Vandal Proof LED 25W	4	25	No Action - Existing Efficient/LED Fixture	4	25	0.1	0.1	0.0
JH Early Childhood Center	Exterior	Classroom Doors	Vandal Proof LED 25W BB	2	25	No Action - Existing Efficient/LED Fixture	2	25	0.1	0.1	0.0
JH Early Childhood Center	Exterior	Connector Hallway Doors	Wall Pack LED 46W BB	1	46	No Action - Existing Efficient/LED Fixture	1	46	0.0	0.0	0.0
JH Early Childhood Center	Exterior	Mechanical Room Door	Wall Pack HPS 70W	1	95	Wall Pack LED FT TWX 1.6 kLm PC	1	11	0.1	0.0	0.1
JH Early Childhood Center	Exterior	Hallway Door / Wall	Wall Pack LED 14W	1	14	No Action - Existing Efficient/LED Fixture	1	14	0.0	0.0	0.0
JH Early Childhood Center	Exterior	Hallway Door	Wall Pack LED 14W	1	14	No Action - Existing Efficient/LED Fixture	1	14	0.0	0.0	0.0
JH Early Childhood Center	Exterior	Classroom Door	Wall Pack HPS 70W	1	95	Canopy LED 2.1 kLm FA	1	15	0.1	0.0	0.1
JH Early Childhood Center	Exterior	Classroom Door	Wall Pack LED 24W Corn Cob	1	24	Wall Pack LED FT TWX 5 kLm PC	1	36	0.0	0.0	0.0
JH Early Childhood Center	Exterior	Multi-Purpose - Connector Doors	Wall Pack LED 9W A	2	9	Canopy LED 2.1 kLm FA	2	15	0.0	0.0	0.0
JH Early Childhood Center	Exterior	Multi-Purpose - Wall	Wall Pack LED 24W Corn Cob	1	24	Wall Pack LED FT TWX 5 kLm PC	1	36	0.0	0.0	0.0
JH Early Childhood Center	Exterior	Multi-Purpose - Door	Wall Pack HPS 70W	1	95	Wall Pack LED FT TWX 1.6 kLm PC	1	11	0.1	0.0	0.1
JH Early Childhood Center	Exterior	Multi-Purpose - Wall - Parking Lot	Wall Pack MH 400W	1	458	Wall Pack LED FT TWX 6.9 kLm PC	1	54	0.5	0.1	0.4
JH Early Childhood Center	Exterior	Multi-Purpose - Connector Doors	Wall Pack LED 9W A	4	9	Canopy LED 2.1 kLm FA	4	15	0.0	0.1	0.0
Field Kindley High School & Clinic	1st floor	Visitor Entrance Vestibule	Decorative LED 16W A	1	16	LED 9W A19 Replacement 2L	1	19	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Open Office	2x2 Flat Panel Rec LED 39W	9	39	No Action - Existing Efficient/LED Fixture	9	39	0.4	0.4	0.0
Field Kindley High School & Clinic	1st floor	Hallway	2x2 Flat Panel Rec LED 39W	3	39	No Action - Existing Efficient/LED Fixture	3	39	0.1	0.1	0.0
Field Kindley High School & Clinic	1st floor	Private Office - 14002	2x2 Flat Panel Rec LED 39W	4	39	No Action - Existing Efficient/LED Fixture	4	39	0.2	0.2	0.0
Field Kindley High School & Clinic	1st floor	Private Office - 14003	2x2 Flat Panel Rec LED 39W	4	39	No Action - Existing Efficient/LED Fixture	4	39	0.2	0.2	0.0
Field Kindley High School & Clinic	1st floor	Conference Room	2x2 Flat Panel Rec LED 39W	4	39	No Action - Existing Efficient/LED Fixture	4	39	0.2	0.2	0.0
Field Kindley High School & Clinic	1st floor	Work Room	2x2 Flat Panel Rec LED 39W	7	39	No Action - Existing Efficient/LED Fixture	7	39	0.3	0.3	0.0
Field Kindley High School & Clinic	1st floor	Work Room - Storage Closet	2x2 Flat Panel Rec LED 39W	1	39	No Action - Existing Efficient/LED Fixture	1	39	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Work Room - Restroom	2x2 Flat Panel Rec LED 39W	1	39	No Action - Existing Efficient/LED Fixture	1	39	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Work Room - Restroom	2x2 Flat Panel Rec LED 39W	1	39	No Action - Existing Efficient/LED Fixture	1	39	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Hallway by Front Office	2X2 Prism Rec 4L T8	3	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	3	14	0.2	0.0	0.1
Field Kindley High School & Clinic	1st floor	Hallway by Front Office	2X2 Prism Rec 4L T8 BB	1	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit BB	1	14	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Hallway by Front Office	Exit Sign LED DieCast	2	3	No Action - Existing Efficient/LED Fixture	2	3	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Hallway	2X4 Prism Rec 2L 32W T8	5	59	RT, 4' 10.5W DE LED 2L	5	21	0.3	0.1	0.2
Field Kindley High School & Clinic	1st floor	Hallway	2X4 Prism Rec 2L 32W T8 BB	7	59	RT, 4' 10.5W DE LED 2L BB	7	21	0.4	0.1	0.3
Field Kindley High School & Clinic	1st floor	Hallway - Case	1.5' Strip LED 15W	8	15	No Action - Existing Efficient/LED Fixture	8	15	0.1	0.1	0.0
Field Kindley High School & Clinic	1st floor	Hallway - Case	Decorative Inc 40W S	6	40	LED 9W A19 Replacement	6	10	0.2	0.1	0.2
Field Kindley High School & Clinic	1st floor	Private Office 115	2X4 Flat Panel Rec LED 48W	4	48	No Action - Existing Efficient/LED Fixture	4	48	0.2	0.2	0.0
Field Kindley High School & Clinic	1st floor	Stair / Main Entrance	Decorative LED 16W A	2	16	LED 9W A19 Replacement 2L	2	19	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Stair / Main Entrance	Decorative LED 16W A	1	16	LED 9W A19 Replacement 2L	1	19	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Classroom - 101	2X4 Flat Panel Rec LED 48W	6	48	No Action - Existing Efficient/LED Fixture	6	48	0.3	0.3	0.0
Field Kindley High School & Clinic	1st floor	Classroom - 101 - IT Closet	4' Strip LED 25W	1	25	No Action - Existing Efficient/LED Fixture	1	25	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Classroom - 102	2X4 Flat Panel Rec LED 48W	6	48	No Action - Existing Efficient/LED Fixture	6	48	0.3	0.3	0.0
Field Kindley High School & Clinic	1st floor	Classroom - 102 - Storage Closet	2X4 Flat Panel Rec LED 48W	1	48	No Action - Existing Efficient/LED Fixture	1	48	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Hallway - Alcove for 103/104	2X2 Prism Rec 4L T8	1	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	1	14	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Private Office - 103	2x2 Flat Panel Rec LED 39W	4	39	No Action - Existing Efficient/LED Fixture	4	39	0.2	0.2	0.0
Field Kindley High School & Clinic	1st floor	Classroom - 104	2X4 Flat Panel Rec LED 48W	6	48	No Action - Existing Efficient/LED Fixture	6	48	0.3	0.3	0.0
Field Kindley High School & Clinic	1st floor	Stairs	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Stairs	Need to Add Exit Sign	1	0	No Action	1	0	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Storage Closet - Under Stairs	Keyless Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Lobby - 115	2X4 Prism Rec 2L 32W T8	13	59	RT, 4' 10.5W DE LED 2L	13	21	0.8	0.3	0.5
Field Kindley High School & Clinic	1st floor	Lobby - 115	2X4 Prism Rec 2L 32W T8 BB	1	59	RT, 4' 10.5W DE LED 2L BB	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Lobby - 115 - Cove	4' Strip BP 1L	6	43	RT, 4' 10.5W DE LED 1L	6	11	0.3	0.1	0.2
Field Kindley High School & Clinic	1st floor	Hallway by Entrance - 120	2X4 Prism Rec 2L 32W T8	6	59	RT, 4' 10.5W DE LED 2L	6	21	0.4	0.1	0.2
Field Kindley High School & Clinic	1st floor	Hallway by Entrance - 120	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Hallway by Entrance - 120	2X4 Prism Rec 2L 32W T8	8	59	RT, 4' 10.5W DE LED 2L	8	21	0.5	0.2	0.3
Field Kindley High School & Clinic	1st floor	Vestibule by Stairs	4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Odd Stair by CR C2	1x2 Prism Rec 2L	1	51	RT, 2' 7W DE LED 2L	1	14	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Odd Stair by CR C2	2X2 Prism Rec 2L	2	51	RT, 2' 7W DE LED 2L	2	14	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Classroom - C2	2X4 Par Rec 3L 32W T8	17	89	RT, 4' 10.5W DE LED 3L	17	32	1.5	0.5	1.0
Field Kindley High School & Clinic	1st floor	Classroom - C2 - Storage Closet	2X4 Par Rec 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Classroom - Computer Lab - 14212	2X4 Par Rec 3L 32W T8	15	89	RT, 4' 10.5W DE LED 3L	15	32	1.3	0.5	0.9</

Scope of Work

Location			Existing Fixture			Proposed Fixture			kW		
Building	Floor	Room	Fixture	Quantity	Input Wattage	ECM	Quantity	Input Wattage	Pre	Post	Savings
Field Kindley High School & Clinic	1st floor	School Store Entrance	2X4 Prism Rec 2L 32W T8 BB	1	59	RT, 4' 10.5W DE LED 2L BB	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	TV Studio	4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	TV Studio - Control	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Studio	2X4 Prism Rec 2L 32W T8 BB	1	59	RT, 4' 10.5W DE LED 2L BB	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	Basement	Stairs Down	Keyless LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Field Kindley High School & Clinic	Basement	Workout Room	8' Strip LED 65W	61	65	No Action - Existing Efficient/LED Fixture	61	65	4.0	4.0	0.0
Field Kindley High School & Clinic	Basement	Workout Room	Exit Sign Combo LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	0.0
Field Kindley High School & Clinic	Basement	Storage Room	8' Strip LED 65W	2	65	No Action - Existing Efficient/LED Fixture	2	65	0.1	0.1	0.0
Field Kindley High School & Clinic	Basement	Overflow Weights	8' Strip LED 65W	6	65	No Action - Existing Efficient/LED Fixture	6	65	0.4	0.4	0.0
Field Kindley High School & Clinic	Basement	Overflow Weights	4' Strip LED 30W	1	30	No Action - Existing Efficient/LED Fixture	1	30	0.0	0.0	0.0
Field Kindley High School & Clinic	Basement	Hallway by Mechanical Room	4' Wrap BP 4L 32W T8	3	112	RT, 4' 10.5W DE LED 4L	3	42	0.3	0.1	0.2
Field Kindley High School & Clinic	Basement	Hallway by Mechanical Room	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
Field Kindley High School & Clinic	Basement	Pool Mechanical	4' Wrap BP 4L 32W T8	7	112	RT, 4' 10.5W DE LED 4L	7	42	0.8	0.3	0.5
Field Kindley High School & Clinic	Basement	Pool Mechanical	RLM LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Field Kindley High School & Clinic	Basement	Storage Room by Laundry	8' Wrap BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	0.1
Field Kindley High School & Clinic	Basement	Laundry	8' Wrap BP 4L 32W T8	2	112	RT, 4' 10.5W DE LED 4L	2	42	0.2	0.1	0.1
Field Kindley High School & Clinic	Basement	Storage	RLM CFL 32W Screw In	2	32	LED 9W A19 Replacement	2	10	0.1	0.0	0.0
Field Kindley High School & Clinic	Basement	Storage	RLM LED 9W A	4	9	LED 9W A19 Replacement	4	10	0.0	0.0	0.0
Field Kindley High School & Clinic	Basement	Locker Room 1 - Entrance	4' Wrap BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	0.1
Field Kindley High School & Clinic	Basement	Locker Room 1 - Private Office	4' Wrap BP 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
Field Kindley High School & Clinic	Basement	Locker Room 1	4' Wrap BP 4L 32W T8	12	112	RT, 4' 10.5W DE LED 4L	12	42	1.3	0.5	0.8
Field Kindley High School & Clinic	Basement	Locker Room 1	4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	Basement	Locker Room 1 - Shower	4' Vaportight BP 2L 32W T8	3	59	RT, 4' 10.5W DE LED 2L	3	21	0.2	0.1	0.1
Field Kindley High School & Clinic	Basement	Locker Room 1 - Restroom	4' Wrap BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	0.1
Field Kindley High School & Clinic	Basement	Locker Room 1 - Storage	RLM LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Field Kindley High School & Clinic	Basement	Locker Room 1- Storage	RLM Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Field Kindley High School & Clinic	Basement	Locker Room 2	8' Strip BP 2L 32W T8	12	59	RT, 4' 10.5W DE LED 2L	12	21	0.7	0.3	0.5
Field Kindley High School & Clinic	Basement	Locker Room 2	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
Field Kindley High School & Clinic	Basement	Locker Room 2 - Private Office	4' Wrap BP 2L 32W T8	6	59	RT, 4' 10.5W DE LED 2L	6	21	0.4	0.1	0.2
Field Kindley High School & Clinic	Basement	Locker Room 2 - Storage	RLM LED 9W A	2	9	LED 9W A19 Replacement	2	10	0.0	0.0	0.0
Field Kindley High School & Clinic	Basement	Locker Room 2 - Restroom	8' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	Basement	Locker Room 2 - Restroom	4' Strip BP 1L 32W T8	1	31	RT, 4' 10.5W DE LED 1L	1	11	0.0	0.0	0.0
Field Kindley High School & Clinic	Basement	Locker Room 2	4' Vaportight BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	Basement	Locker Room 2 - Shower	4' Vaportight BP 2L 32W T8	3	59	RT, 4' 10.5W DE LED 2L	3	21	0.2	0.1	0.1
Field Kindley High School & Clinic	Basement	Locker Room 2 - Private Office	4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	Basement	Locker Room 2 - Private Office	4' Vaportight BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Field Kindley High School & Clinic	Basement	Locker Room 2 - Private Office - Closet	Keyless Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Field Kindley High School & Clinic	Basement	Locker Room 2 - Entrance	8' Strip BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	Basement	Locker Room 2 - Storage Room	RLM Inc 60W A	3	60	LED 9W A19 Replacement	3	10	0.2	0.0	0.2
Field Kindley High School & Clinic	1st floor	Restroom - Girls	2X4 Prism Rec 4L 32W T8	4	112	RT, 4' 10.5W DE LED 4L	4	42	0.4	0.2	0.3
Field Kindley High School & Clinic	1st floor	Tickets / Storage	8' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Classroom - 14119	2X4 Prism Rec 2L 32W T8	16	59	RT, 4' 10.5W DE LED 2L	16	21	0.9	0.3	0.6
Field Kindley High School & Clinic	1st floor	Classroom - 14119	2X4 Prism Rec 2L 32W T8 BB	1	59	RT, 4' 10.5W DE LED 2L BB	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Classroom - 14119 - Board	8' Wall Bracket BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Classroom - 14119 - Board	4' Wall Bracket BP 1L 32W T8	1	31	RT, 4' 10.5W DE LED 1L	1	11	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Vestibule	4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Storage Room - 129	4' Wrap BP 3L 32W T8	24	89	RT, 4' 10.5W DE LED 3L	24	32	2.1	0.8	1.4
Field Kindley High School & Clinic	1st floor	Lobby / Hallway - by Trainer 130	8' Wrap BP 4L 32W T8	5	112	RT, 4' 10.5W DE LED 4L	5	42	0.6	0.2	0.4
Field Kindley High School & Clinic	1st floor	Lobby / Hallway - by Trainer 130	Exit Sign Combo LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Trainer - 131	4' Wrap BP 3L 32W T8	8	89	RT, 4' 10.5W DE LED 3L	8	32	0.7	0.3	0.5
Field Kindley High School & Clinic	1st floor	Vestibule	4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Vestibule	12" Rec Sq. LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Storage Room	RLM Inc 60W A	2	60	LED 9W A19 Replacement	2	10	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Storage Room	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Janitor Closet	Drum LED 9W A 2L	1	18	LED 9W A19 Replacement 2L	1	19	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Locker Room - 3	8' Strip BP 2L 32W T8	12	59	RT, 4' 10.5W DE LED 2L	12	21	0.7	0.3	0.5
Field Kindley High School & Clinic	1st floor	Locker Room - 3	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Locker Room - 3 - Restroom	4' Strip BP 1L 32W T8	1	31	RT, 4' 10.5W DE LED 1L	1	11	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Locker Room - 3 - Restroom	8' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Locker Room - 3	8' Strip BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Locker Room - 3 - Shower	4' Vaportight BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Locker Room - 3 - Private Office	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Locker Room - 3 - Private Office - RR	Drum Inc 60W A 2L	1	120	LED 9W A19 Replacement 2L	1	19	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Locker Room - 4	4' Wrap BP 4L 32W T8	11	112	RT, 4' 10.5W DE LED 4L	11	42	1.2	0.5	0.8
Field Kindley High School & Clinic	1st floor	Locker Room - 4 - Private Office	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Locker Room - 4 - Restroom	Drum Inc 60W A 2L	1	120	LED 9W A19 Replacement 2L	1	19	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Locker Room - 4	4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Locker Room - 4 - Shower	4' Vaportight BP 2L 32W T8	3	59	RT, 4' 10.5W DE LED 2L	3	21	0.2	0.1	0.1
Field Kindley High School & Clinic	1st floor	Locker Room - 4 - Restroom	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Locker Room - 4 - Restroom	4' Wrap BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Locker Room - 4 - Entrance	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Gym Court	High Bay T5HO 6L	38	351	High Bay Compact LED 30 klm, WG	38	214	13.3	8.1	5.2
Field Kindley High School & Clinic	1st floor	Gym Court	High Bay T5HO 6L BB	4	351	High Bay Compact LED 30 klm, WG, BB	4	214	1.4	0.9	0.5
Field Kindley High School & Clinic	1st floor	Gym Court - Bleachers	8' Schoolhouse HO 2L	5	207	RT, 8' HO 40W DE LED 2L	5	80	1.0	0.4	0.6
Field Kindley High School & Clinic	1st floor	Gym - Accent Banner	RLM LED 9W A	10	9	LED 9W A19 Replacement	10	10	0.1	0.1	0.0
Field Kindley High School & Clinic	1st floor	Gym - By Screens	4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Hallway by Gym & 138	8' Wrap BP 4L 32W T8	4	112	RT, 4' 10.5W DE LED 4L	4	42	0.4	0.2	0.3
Field Kindley High School & Clinic	1st floor	Hallway by Gym & 138	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Hallway / Lobby - 138	8' Wrap BP 4L 32W T8	7	112	RT, 4' 10.5W DE LED 4L	7	42	0.8	0.3	0.5
Field Kindley High School & Clinic	1st floor	Hallway / Lobby - 138	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Vestibule	2X4 Volumetric Rec LED 40W	4	40	No Action - Existing Efficient/LED Fixture	4	40	0.2	0.2	0.0
Field Kindley High School & Clinic	1st floor	Janitor Closet	Drum LED 9W A 2L	1	18	LED 9W A19 Replacement 2L	1	19	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Storage Room for Locker Room	RLM Inc 60W A	3	60	LED 9W A19 Replacement	3	10	0.2	0.0	0.2
Field Kindley High School & Clinic	1st floor	Private Office - 14124	2X4 Prism Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
Field Kindley High School & Clinic	1st floor	Private Office - 14123	2X4 Prism Rec 2L 32W T8	3	59	RT, 4' 10.5W DE LED 2L	3	21	0.2	0.1	0.1
Field Kindley High School & Clinic	1st floor	Passage	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Field Kindley High School & Clinic	1st floor	Restroom	2X4 Prism Rec 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Restroom	Drum LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Storage	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Classroom - 14121	2X4 Prism Rec 2L 32W T8	8	59	RT, 4' 10.5W DE LED 2L	8	21	0.5	0.2	0.3
Field Kindley High School & Clinic	1st floor	Pool	Low Bay LED 60W Corn Cob	13	60	No Action - Existing Efficient/LED Fixture	13	60	0.8	0.8	0.0
Field Kindley High School & Clinic	1st floor	Under Bleachers	8' Vaportight SP 2L	5	138	RT, 4' 10.5W DE LED 4L, 8' VT Kit	5	42	0.7	0.2	0.5
Field Kindley High School & Clinic	1st floor	Private office	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Changing Alcove	6" Rec Can LED 12W	1	12	No Action - Existing Efficient/LED Fixture	1	12	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Restroom - Girls	2x2 Flat Panel Rec LED 39W	9	39	No Action - Existing Efficient/LED Fixture	9	39	0.4	0.4	0.0
Field Kindley High School & Clinic	1st floor	Restroom - Girls	2x2 Flat Panel Rec LED 39W BB	1	39	No Action - Existing Efficient/LED Fixture	1	39	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Restroom - Girls - Janitor Closet	2x2 Flat Panel Rec LED 39W	1	39	No Action - Existing Efficient/LED Fixture	1	39	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Restroom - Boys	2x2 Flat Panel Rec LED 39W	8	39	No Action - Existing Efficient/LED Fixture	8	39	0.3	0.3	0.0
Field Kindley High School & Clinic	1st floor	Restroom - Boys	2x2 Flat Panel Rec LED 39W BB	1	39	No Action - Existing Efficient/LED Fixture	1	39	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Restroom - Boys - Janitor Closet	2x2 Flat Panel Rec LED 39W	1	39	No Action - Existing Efficient/LED Fixture	1	39	0.0	0.0	0.0
Field Kindley High School & Clinic											

Scope of Work

Location			Existing Fixture			Proposed Fixture			kW		
Building	Floor	Room	Fixture	Quantity	Input Wattage	ECM	Quantity	Input Wattage	Pre	Post	Savings
Field Kindley High School & Clinic	1st floor	Consulting Suite - Private Office	2X4 Prism Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
Field Kindley High School & Clinic	1st floor	Consulting Suite - Private Office	2X4 Prism Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
Field Kindley High School & Clinic	1st floor	Library	2X4 Prism Rec 2L 32W T8	32	59	RT, 4' 10.5W DE LED 2L	32	21	1.9	0.7	1.2
Field Kindley High School & Clinic	1st floor	Library	1x4 Prism Rec 2L 32W T8	22	59	RT, 4' 10.5W DE LED 2L	22	21	1.3	0.5	0.8
Field Kindley High School & Clinic	1st floor	Library	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Private Office	2X4 Prism Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
Field Kindley High School & Clinic	1st floor	Passage to Clinic	4' Wrap LED 30W	2	30	No Action - Existing Efficient/LED Fixture	2	30	0.1	0.1	0.0
Field Kindley High School & Clinic	1st floor	Storage Room	2X4 Prism Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
Field Kindley High School & Clinic	1st floor	Classroom - 14110	2X4 PSQ Rec 2L 32W T8 Tandem 4	8	56	RT, 4' 10.5W DE LED 2L	8	21	0.4	0.2	0.3
Field Kindley High School & Clinic	1st floor	Elevator Cab	4' Strip BP 1L 32W T8	1	31	RT, 4' 10.5W DE LED 1L	1	11	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Janitor Closet / Private Office - 14501	RLM LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Hallway	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Hallway	2X4 Prism Rec 2L 32W T8 BB	2	59	RT, 4' 10.5W DE LED 2L BB	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Classroom - 112	2X4 Prism Rec LED 40W	6	40	No Action - Existing Efficient/LED Fixture	6	40	0.2	0.2	0.0
Field Kindley High School & Clinic	1st floor	Classroom - 112 - Showroom	8' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Classroom - 112 - Showroom	Drum LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Hallway	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Hallway	2X4 Prism Rec 2L 32W T8 BB	2	59	RT, 4' 10.5W DE LED 2L BB	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Classroom - Home Economics	2X4 Prism Rec LED 40W	6	40	No Action - Existing Efficient/LED Fixture	6	40	0.2	0.2	0.0
Field Kindley High School & Clinic	1st floor	Classroom - Home Economics - Restroom	8' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Classroom - 112	2X4 Prism Rec LED 40W	12	40	No Action - Existing Efficient/LED Fixture	12	40	0.5	0.5	0.0
Field Kindley High School & Clinic	1st floor	Classroom - 112 - Exterior Door	Exit Sign Paper	1	0	No Action	1	0	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Entrance	Drum Inc 60W A 2L	1	120	LED 9W A19 Replacement 2L	1	19	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Classroom - Music	2X4 Prism Rec 2L 32W T8	30	59	RT, 4' 10.5W DE LED 2L	30	21	1.8	0.6	1.1
Field Kindley High School & Clinic	1st floor	Classroom - Music - Exit Door	Exit Sign LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Storage Room	2X4 Prism Rec 2L 32W T8	6	59	RT, 4' 10.5W DE LED 2L	6	21	0.4	0.1	0.2
Field Kindley High School & Clinic	1st floor	Storage Closet	Globe Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Private Office	2X4 Prism Rec 2L 32W T8	4	89	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	0.2
Field Kindley High School & Clinic	1st floor	Storage Room	Keyless Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Stairwell Vestibule	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Field Kindley High School & Clinic	1st floor	Exit Door	Need to Add Exit Combo	1	0	No Action	1	0	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Under Stair Storage Closet	Keyless Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Seating	Decorative LED 16W A	12	16	No Action - Existing Efficient/LED Fixture	12	16	0.2	0.2	0.0
Field Kindley High School & Clinic	1st floor	Seating	Wall Sconce LED 7W PAR20	4	7	No Action - Existing Efficient/LED Fixture	4	7	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Under Balcony	Decorative LED 9W A	12	9	No Action - Existing Efficient/LED Fixture	12	9	0.1	0.1	0.0
Field Kindley High School & Clinic	1st floor	Seating	Exit Sign LED Recessed	2	3	No Action - Existing Efficient/LED Fixture	2	3	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Balcony	Decorative LED 9W A	2	9	No Action - Existing Efficient/LED Fixture	2	9	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Control Room	Keyless CFL 13W Screw In	2	13	LED 9W A19 Replacement	2	10	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Restroom - Women	None Existing	0	0	No Action	0	0	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Vestibule	Wall Sconce LED 9W A	2	9	No Action - Existing Efficient/LED Fixture	2	9	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Vestibule	Drum LED 9W A 2L	1	18	No Action - Existing Efficient/LED Fixture	1	18	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Storage Closet	Keyless Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Storage Closet	Keyless Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Restroom - Men	None Existing	0	0	No Action	0	0	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Stairs - Right	Decorative LED 16W A	1	16	No Action - Existing Efficient/LED Fixture	1	16	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Stairs - Left	Decorative LED 16W A	1	16	No Action - Existing Efficient/LED Fixture	1	16	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Stage	Keyless Inc 60W A	6	60	LED 9W A19 Replacement	6	10	0.4	0.1	0.3
Field Kindley High School & Clinic	1st floor	Storage Room	Keyless Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Field Kindley High School & Clinic	Basement	Stairs - Down	8' Strip BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	0.1
Field Kindley High School & Clinic	Basement	Crawl / Mechanical	8' Strip BP 4L 32W T8	2	112	RT, 4' 10.5W DE LED 4L	2	42	0.2	0.1	0.1
Field Kindley High School & Clinic	Basement	Electrical 1	8' Strip BP 4L 32W T8	2	112	RT, 4' 10.5W DE LED 4L	2	42	0.2	0.1	0.1
Field Kindley High School & Clinic	Basement	Electrical 2	8' Strip BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Stairs by Main Office	Decorative LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Stairs by Main Office	8' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Stairs by Main Office	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Stairs by Main Office	8' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Stairs by Main Office	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Stairs by Main Office	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Stairs by Main Office	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Hallway	2X2 Prism Rec 4L T8	4	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	4	14	0.2	0.1	0.2
Field Kindley High School & Clinic	2nd floor	Hallway Alcove	2X2 Prism Rec 4L T8	1	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	1	14	0.1	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Classroom - 209	2X4 Prism Rec 3L 32W T8 DS	9	90	RT, 4' 10.5W DE LED 3L	9	32	0.8	0.3	0.5
Field Kindley High School & Clinic	2nd floor	Restroom - Boys	2X4 Prism Rec 3L 32W T8	5	89	RT, 4' 10.5W DE LED 3L	5	32	0.4	0.2	0.3
Field Kindley High School & Clinic	2nd floor	Hallway	2X4 Prism Rec 2L 32W T8	6	59	RT, 4' 10.5W DE LED 2L	6	21	0.4	0.1	0.2
Field Kindley High School & Clinic	2nd floor	Hallway	2X4 Prism Rec 2L 32W T8 BB	6	59	RT, 4' 10.5W DE LED 2L BB	6	21	0.4	0.1	0.2
Field Kindley High School & Clinic	2nd floor	Classroom - 210	2X4 Prism Rec 3L 32W T8 DS	9	90	RT, 4' 10.5W DE LED 3L	9	32	0.8	0.3	0.5
Field Kindley High School & Clinic	2nd floor	Classroom - 211	2X4 Prism Rec 3L 32W T8 DS	10	90	RT, 4' 10.5W DE LED 3L	10	32	0.9	0.3	0.6
Field Kindley High School & Clinic	2nd floor	Stairs at Center	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Stairs at Center	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Stairs at Center	Decorative LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Classroom - 200	2X4 Prism Rec 3L 32W T8 DS	8	90	RT, 4' 10.5W DE LED 3L	8	32	0.7	0.3	0.5
Field Kindley High School & Clinic	2nd floor	Classroom - 200 - Storage Closet	8' Wrap BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Classroom - 201	2X4 Prism Rec 3L 32W T8 DS	9	90	RT, 4' 10.5W DE LED 3L	9	32	0.8	0.3	0.5
Field Kindley High School & Clinic	2nd floor	Restroom - Girls	2X4 Prism Rec 2L 32W T8	5	59	RT, 4' 10.5W DE LED 2L	5	21	0.3	0.1	0.2
Field Kindley High School & Clinic	2nd floor	Hallway Alcove	2X2 Prism Rec 4L T8	1	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	1	14	0.1	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Classroom - 202	2X4 Prism Rec 3L 32W T8 DS	9	90	RT, 4' 10.5W DE LED 3L	9	32	0.8	0.3	0.5
Field Kindley High School & Clinic	2nd floor	Stairs at End	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Stairs at End	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Stairs at End	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Stairs at End	8' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Stairs at End	8' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Stairs at End	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Storage Room	8' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Stairs - Down SW	2X4 Prism Rec 3L 32W T8 BB	2	89	RT, 4' 10.5W DE LED 3L BB	2	32	0.2	0.1	0.1
Field Kindley High School & Clinic	2nd floor	Stairs - Down SW	2X4 Prism Rec 3L 32W T8 BB	2	89	RT, 4' 10.5W DE LED 3L BB	2	32	0.2	0.1	0.1
Field Kindley High School & Clinic	2nd floor	Stairs - Down SW	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Stairs - Down SW - Accent	6" Rec Can LED 12W	2	12	No Action - Existing Efficient/LED Fixture	2	12	0.0	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Stairs - Down SW - Case	None Existing	0	0	No Action	0	0	0.0	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Vault	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Stairs	8' Wrap BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Concourse	6" Rec Can LED 36W	5	36	No Action - Existing Efficient/LED Fixture	5	36	0.2	0.2	0.0
Field Kindley High School & Clinic	2nd floor	Concourse	6" Rec Can LED 36W BB	3	36	No Action - Existing Efficient/LED Fixture	3	36	0.1	0.1	0.0
Field Kindley High School & Clinic	2nd floor	Team Shop	6" Rec Can LED 14W	7	14	No Action - Existing Efficient/LED Fixture	7	14	0.1	0.1	0.0
Field Kindley High School & Clinic	2nd floor	Team Shop	Track Head LED 7W	23	7	No Action - Existing Efficient/LED Fixture	23	7	0.2	0.2	0.0
Field Kindley High School & Clinic	2nd floor	Team Shop	Cylinder LED 14W	3	14	No Action - Existing Efficient/LED Fixture	3	14	0.0	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Storage Room	4' Strip LED 20W	2	20	No Action - Existing Efficient/LED Fixture	2	20	0.0	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Concourse	4" Rec Can LED 14W	6	14	No Action - Existing Efficient/LED Fixture	6	14	0.1	0.1	0.0
Field Kindley High School & Clinic	2nd floor	Concourse	Decorative LED 156W	1	156	No Action - Existing Efficient/LED Fixture	1	156	0.2	0.2	0.0
Field Kindley High School & Clinic	2nd floor	Concession	Cylinder LED 14W	5	14	No Action - Existing Efficient/LED Fixture	5	14	0.1	0.1	0.0
Field Kindley High School & Clinic	2nd floor	Concession	2x2 Flat Panel Rec LED 39W	6	39	No Action - Existing Efficient/LED Fixture	6	39	0.2	0.2	0.0
Field Kindley High School & Clinic	2nd floor	Storage Room	4' Strip LED 20W	1	20	No Action - Existing Efficient/LED Fixture	1	20	0.0	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Stairs Down SE	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Field Kindley High School & Clinic	2nd floor	Stairs Down SE	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Field Kindley High School & Clinic											

Scope of Work

Location			Existing Fixture			Proposed Fixture			kW		
Building	Floor	Room	Fixture	Quantity	Input Wattage	ECM	Quantity	Input Wattage	Pre	Post	Savings
Field Kindley High School & Clinic	2nd floor	Stairs Down NE	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Field Kindley High School & Clinic	2nd floor	Stairs Down NE	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Field Kindley High School & Clinic	2nd floor	Stairs Down NE	8' Wrap BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Stairs Down NE	Exit Sign Combo LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Stairs Down NE	8' Wrap BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Stairs Down NE	8' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Stairs NW	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Field Kindley High School & Clinic	2nd floor	Stairs NW	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Field Kindley High School & Clinic	2nd floor	Stairs NW	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Stairs NW	8' Wrap BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Stairs NW	8' Wrap BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Stairs NW	8' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Classroom - 203	2X4 Prism Rec 3L 32W T8 DS	15	90	RT, 4' 10.5W DE LED 3L	15	32	1.4	0.5	0.9
Field Kindley High School & Clinic	2nd floor	Classroom - 203	4' Undercabinet BP 1L 32W T8	14	31	RT, 4' 10.5W DE LED 1L	14	11	0.4	0.1	0.3
Field Kindley High School & Clinic	2nd floor	Classroom - 203	3' Undercabinet 1L 25W T8	4	26	RT, 3' 12W DE LED 1L	4	12	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Classroom - 203 - Kitchen for Home Eco	Jelly Jar Inc 60W A	2	60	LED 9W A19 Replacement	2	10	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Classroom - 203 - Kitchen for Home Eco	2X4 Prism Rec 4L 32W T8	8	112	RT, 4' 10.5W DE LED 4L	8	42	0.9	0.3	0.6
Field Kindley High School & Clinic	2nd floor	Classroom - 203 - Kitchen for Home Eco	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Classroom - 203 - Kitchen for Home Eco	2X2 Prism Rec 4L T8	1	61	RT, 2' 7W DE LED 4L	1	28	0.1	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Classroom - 203 - Kitchen for Home Eco	4' Undercabinet BP 1L 32W T8	5	31	RT, 4' 10.5W DE LED 1L	5	11	0.2	0.1	0.1
Field Kindley High School & Clinic	2nd floor	Classroom - 203 - Kitchen for Home Eco	3' Undercabinet 1L 25W T8	4	26	RT, 3' 12W DE LED 1L	4	12	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Classroom - 204	2X4 Prism Rec 3L 32W T8 DS	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	0.7
Field Kindley High School & Clinic	2nd floor	Classroom - 205 - Science	2X4 Prism Rec 3L 32W T8 DS	17	90	RT, 4' 10.5W DE LED 3L	17	32	1.5	0.5	1.0
Field Kindley High School & Clinic	2nd floor	Classroom - 205 - Science - Storage	8' Schoolhouse BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Classroom - 205 - Science - Storage	8' Schoolhouse BP 4L 32W T8	2	112	RT, 4' 10.5W DE LED 4L	2	42	0.2	0.1	0.1
Field Kindley High School & Clinic	2nd floor	Classroom - 205 - Science - Storage	4' Schoolhouse BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Storage Room	Keyless Inc 100W A	1	100	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Hallway	2X4 Prism Rec 2L 32W T8	5	59	RT, 4' 10.5W DE LED 2L	5	21	0.3	0.1	0.2
Field Kindley High School & Clinic	2nd floor	Hallway	2X4 Prism Rec 2L 32W T8 BB	5	59	RT, 4' 10.5W DE LED 2L BB	5	21	0.3	0.1	0.2
Field Kindley High School & Clinic	2nd floor	Classroom - 206 - Science	2X4 Prism Rec 3L 32W T8 DS	21	90	RT, 4' 10.5W DE LED 3L	21	32	1.9	0.7	1.2
Field Kindley High School & Clinic	2nd floor	Classroom - 206 - Science - Storage	8' Schoolhouse BP 4L 32W T8	2	112	RT, 4' 10.5W DE LED 4L	2	42	0.2	0.1	0.1
Field Kindley High School & Clinic	2nd floor	Classroom - 207 - Science	2X4 Prism Rec 3L 32W T8 DS	18	90	RT, 4' 10.5W DE LED 3L	18	32	1.6	0.6	1.1
Field Kindley High School & Clinic	2nd floor	Janitor Closet	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Lounge	2X4 Prism Rec 3L 32W T8 DS	4	90	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	0.2
Field Kindley High School & Clinic	2nd floor	Lounge - Restroom	Decorative Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Stairs	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Stairs	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley High School & Clinic	2nd floor	Stairs	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Stairs	8' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Stairs	8' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Stairs	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
Field Kindley High School & Clinic	2nd floor	Stairs	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	3rd floor	Hallway	2X2 Prism Rec 4L T8	4	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	4	14	0.2	0.1	0.2
Field Kindley High School & Clinic	3rd floor	Hallway Alcove	2X2 Prism Rec 4L T8	1	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	1	14	0.1	0.0	0.0
Field Kindley High School & Clinic	3rd floor	Classroom - 314	2X4 Prism Rec 3L 32W T8 DS	9	90	RT, 4' 10.5W DE LED 3L	9	32	0.8	0.3	0.5
Field Kindley High School & Clinic	3rd floor	Hallway	2X4 Prism Rec 2L 32W T8	7	59	RT, 4' 10.5W DE LED 2L	7	21	0.4	0.1	0.3
Field Kindley High School & Clinic	3rd floor	Hallway	2X4 Prism Rec 2L 32W T8 BB	7	59	RT, 4' 10.5W DE LED 2L BB	7	21	0.4	0.1	0.3
Field Kindley High School & Clinic	3rd floor	Restroom - Boys	2X4 Prism Rec 2L 32W T8	5	59	RT, 4' 10.5W DE LED 2L	5	21	0.3	0.1	0.2
Field Kindley High School & Clinic	3rd floor	Classroom - 315	2X4 Prism Rec 3L 32W T8 DS	9	90	RT, 4' 10.5W DE LED 3L	9	32	0.8	0.3	0.5
Field Kindley High School & Clinic	3rd floor	Classroom - 316	2X4 Prism Rec 3L 32W T8 DS	10	90	RT, 4' 10.5W DE LED 3L	10	32	0.9	0.3	0.6
Field Kindley High School & Clinic	3rd floor	Classroom - 300	2X4 Prism Rec 3L 32W T8 DS	9	90	RT, 4' 10.5W DE LED 3L	9	32	0.8	0.3	0.5
Field Kindley High School & Clinic	3rd floor	Classroom - 301	2X4 Prism Rec 3L 32W T8 DS	9	90	RT, 4' 10.5W DE LED 3L	9	32	0.8	0.3	0.5
Field Kindley High School & Clinic	3rd floor	Restroom - Girls	2X4 Prism Rec 2L 32W T8	5	59	RT, 4' 10.5W DE LED 2L	5	21	0.3	0.1	0.2
Field Kindley High School & Clinic	3rd floor	Hallway Alcove	2X2 Prism Rec 4L T8	1	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	1	14	0.1	0.0	0.0
Field Kindley High School & Clinic	3rd floor	Classroom - 302	2X4 Prism Rec 3L 32W T8 DS	9	90	RT, 4' 10.5W DE LED 3L	9	32	0.8	0.3	0.5
Field Kindley High School & Clinic	3rd floor	Vestibule - Classroo - 303	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	3rd floor	Classroom - 303	2X4 Prism Rec 3L 32W T8 DS	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	0.7
Field Kindley High School & Clinic	3rd floor	Classroom - 304	2X4 Prism Rec 3L 32W T8 DS	9	90	RT, 4' 10.5W DE LED 3L	9	32	0.8	0.3	0.5
Field Kindley High School & Clinic	3rd floor	Classroom - 305	2X4 Prism Rec 3L 32W T8 DS	9	90	RT, 4' 10.5W DE LED 3L	9	32	0.8	0.3	0.5
Field Kindley High School & Clinic	3rd floor	Classroom - 306	2X4 Prism Rec 3L 32W T8 DS	9	90	RT, 4' 10.5W DE LED 3L	9	32	0.8	0.3	0.5
Field Kindley High School & Clinic	3rd floor	Classroom - 307	2X4 Prism Rec 3L 32W T8 DS	11	90	RT, 4' 10.5W DE LED 3L	11	32	1.0	0.3	0.6
Field Kindley High School & Clinic	3rd floor	Janitor Closet	Keyless LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Field Kindley High School & Clinic	3rd floor	Hallway	2X4 Prism Rec 2L 32W T8	5	59	RT, 4' 10.5W DE LED 2L	5	21	0.3	0.1	0.2
Field Kindley High School & Clinic	3rd floor	Hallway	2X4 Prism Rec 2L 32W T8 BB	5	59	RT, 4' 10.5W DE LED 2L BB	5	21	0.3	0.1	0.2
Field Kindley High School & Clinic	3rd floor	Classroom - 308	2X4 Prism Rec 3L 32W T8 DS	9	90	RT, 4' 10.5W DE LED 3L	9	32	0.8	0.3	0.5
Field Kindley High School & Clinic	3rd floor	Classroom - 308	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	3rd floor	Classroom - 309 - Art	2X4 Prism Rec 3L 32W T8 DS	15	90	RT, 4' 10.5W DE LED 3L	15	32	1.4	0.5	0.9
Field Kindley High School & Clinic	3rd floor	Classroom - 310	2X4 Prism Rec 3L 32W T8 DS	18	90	RT, 4' 10.5W DE LED 3L	18	32	1.6	0.6	1.1
Field Kindley High School & Clinic	3rd floor	Classroom - 310	4' Schoolhouse BP 4L 32W T8	3	112	RT, 4' 10.5W DE LED 4L	3	42	0.3	0.1	0.2
Field Kindley High School & Clinic	3rd floor	Storage Room	2X4 Prism Rec 3L 32W T8 DS	4	90	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	0.2
Field Kindley High School & Clinic	3rd floor	Classroom - 312	2X4 Prism Rec 3L 32W T8 DS	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	0.7
Field Kindley High School & Clinic	3rd floor	Classroom - 313	2X4 Prism Rec 3L 32W T8 DS	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	0.7
Field Kindley High School & Clinic	Exterior	Front Office Entrance	Wall Pack LED 12W	1	12	No Action - Existing Efficient/LED Fixture	1	12	0.0	0.0	0.0
Field Kindley High School & Clinic	Exterior	Auditorium Entrance	Wall Pack LED 12W	1	12	No Action - Existing Efficient/LED Fixture	1	12	0.0	0.0	0.0
Field Kindley High School & Clinic	Exterior	Stairwell Door	Wall Pack LED 27W Corn Cob	1	27	Wall Pack LED FT TWX 5 kLm PC	1	36	0.0	0.0	0.0
Field Kindley High School & Clinic	Exterior	Back Wall - Parking lot	Wall Pack LED 27W Corn Cob	1	27	Wall Pack LED FT TWX 5 kLm PC	1	36	0.0	0.0	0.0
Field Kindley High School & Clinic	Exterior	Door	Wall Pack LED 27W Corn Cob	1	27	Wall Pack LED FT TWX 5 kLm PC	1	36	0.0	0.0	0.0
Field Kindley High School & Clinic	Exterior	Clinic Entrance and Sidewalk	Wall Pack LED 46W	4	46	No Action - Existing Efficient/LED Fixture	4	46	0.2	0.2	0.0
Field Kindley High School & Clinic	Exterior	Clinic Door and Sidewalk	Wall Pack LED 46W	2	46	No Action - Existing Efficient/LED Fixture	2	46	0.1	0.1	0.0
Field Kindley High School & Clinic	Exterior	Pool Door	Wall Pack LED 26W	1	26	No Action - Existing Efficient/LED Fixture	1	26	0.0	0.0	0.0
Field Kindley High School & Clinic	Exterior	Locker Room Wall - Side Walk	Wall Pack LED 27W Corn Cob	2	27	Wall Pack LED FT TWX 5 kLm PC	2	36	0.1	0.1	0.0
Field Kindley High School & Clinic	Exterior	Gym Entrance	Wall Pack LED 27W Corn Cob	1	27	Wall Pack LED FT TWX 5 kLm PC	1	36	0.0	0.0	0.0
Field Kindley High School & Clinic	Exterior	Wall by Middle School	Wall Pack MH 175W	2	215	Wall Pack LED FT TWX 5 kLm PC	2	36	0.4	0.1	0.4
Field Kindley High School & Clinic	Exterior	Front Side Walk	Wall Pack LED 41W	4	41	No Action - Existing Efficient/LED Fixture	4	41	0.2	0.2	0.0
Field Kindley High School & Clinic	Exterior	Flag Pole	Flood LED 78W	1	78	No Action - Existing Efficient/LED Fixture	1	78	0.1	0.1	0.0
Field Kindley High School & Clinic	Exterior	Statue	Flood LED 45W	1	45	No Action - Existing Efficient/LED Fixture	1	45	0.0	0.0	0.0
Field Kindley High School & Clinic	Exterior	Stair Hallway Door	Wall Pack LED 125W	1	125	No Action - Existing Efficient/LED Fixture	1	125	0.1	0.1	0.0
Field Kindley High School & Clinic	Exterior	Front Wall	Wall Pack LED 27W Corn Cob	2	27	Wall Pack LED FT TWX 5 kLm PC	2	36	0.1	0.1	0.0
Field Kindley High School & Clinic	Exterior	Central Stair Door	Wall Pack LED 12W	1	12	No Action - Existing Efficient/LED Fixture	1	12	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Vestibule	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Field Kindley High School & Clinic	1st floor	Vestibule	Exit Sign Combo LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Lobby	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Field Kindley High School & Clinic	1st floor	Lobby	4" Rec Can LED 9W A	3	9	LED 9W A19 Replacement	3	10	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Lobby	Exit Sign Combo LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	Reception	2X4 Prism Rec 3L 32W T8	5	89	RT, 4' 10.5W DE LED 3L	5	32	0.4	0.2	0.3
Field Kindley High School & Clinic	1st floor	Private Office	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Field Kindley High School & Clinic	1st floor	Storage Closet	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley High School & Clinic	1st floor	Hallway	2X4 Prism Rec 3L 32W T8	6	89	RT, 4' 10.5W DE LED 3L	6	32	0.5	0.2	0.3
Field Kindley High School & Clinic	1st floor	Hallway	Exit Sign Combo LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	0.0
Field Kindley High School & Clinic	1st floor	H									

Scope of Work

Location			Existing Fixture			Proposed Fixture			kW		
Building	Floor	Room	Fixture	Quantity	Input Wattage	ECM	Quantity	Input Wattage	Pre	Post	Savings
Field Kindley High School & Clinic	1st floor	Exam 1	2X4 Prism Rec 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Private Office	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Field Kindley High School & Clinic	1st floor	Bed 1	2X4 Prism Rec 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Bed 2	2X4 Prism Rec 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Restroom (Private)	2X4 Prism Rec 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
Field Kindley High School & Clinic	1st floor	Restroom (Private)	2X4 Prism Rec 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
Roosevelt Middle School	Exterior	Sidewalk	Flood LED 100W	2	100	No Action - Existing Efficient/LED Fixture	2	100	0.2	0.2	0.0
Roosevelt Middle School	Exterior	Hallway Door	Canopy LED 10W	1	10	No Action - Existing Efficient/LED Fixture	1	10	0.0	0.0	0.0
Roosevelt Middle School	Exterior	Brick Wall - Sidewalk	Wall Pack LED 27W Corn Cob	2	27	Wall Pack LED FT TWX 5 klm PC	2	36	0.1	0.1	0.0
Roosevelt Middle School	Exterior	Hallway Door	Canopy LED 10W	1	10	No Action - Existing Efficient/LED Fixture	1	10	0.0	0.0	0.0
Roosevelt Middle School	Exterior	Main Entrance	Step Light LED 5W	8	5	No Action - Existing Efficient/LED Fixture	8	5	0.0	0.0	0.0
Roosevelt Middle School	Exterior	Main Entrance	Decorative LED 9W A	2	9	LED 9W A19 Replacement	2	10	0.0	0.0	0.0
Roosevelt Middle School	Exterior	Front Wall	Wall Pack LED 27W Corn Cob	2	27	Wall Pack LED FT TWX 5 klm PC	2	36	0.1	0.1	0.0
Roosevelt Middle School	Exterior	Front Entrance	Canopy LED 10W	1	10	No Action - Existing Efficient/LED Fixture	1	10	0.0	0.0	0.0
Roosevelt Middle School	1st floor	Main Entrance	6" Rec Can LED 36W	1	36	No Action - Existing Efficient/LED Fixture	1	36	0.0	0.0	0.0
Roosevelt Middle School	1st floor	Main Entrance	6" Rec Can LED 36W BB	1	36	No Action - Existing Efficient/LED Fixture	1	36	0.0	0.0	0.0
Roosevelt Middle School	1st floor	Open Office	2x2 Flat Panel Rec LED 39W	6	39	No Action - Existing Efficient/LED Fixture	6	39	0.2	0.2	0.0
Roosevelt Middle School	1st floor	Open Office	Exit Sign Combo LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	0.0
Roosevelt Middle School	1st floor	Passage	2x2 Flat Panel Rec LED 39W	5	39	No Action - Existing Efficient/LED Fixture	5	39	0.2	0.2	0.0
Roosevelt Middle School	1st floor	Passage	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
Roosevelt Middle School	1st floor	Private Office - 12001	2x2 Flat Panel Rec LED 39W	4	39	No Action - Existing Efficient/LED Fixture	4	39	0.2	0.2	0.0
Roosevelt Middle School	1st floor	Conference Room	2x2 Flat Panel Rec LED 39W	4	39	No Action - Existing Efficient/LED Fixture	4	39	0.2	0.2	0.0
Roosevelt Middle School	1st floor	Private Office	2x2 Flat Panel Rec LED 39W	4	39	No Action - Existing Efficient/LED Fixture	4	39	0.2	0.2	0.0
Roosevelt Middle School	1st floor	Storage Room	2x2 Flat Panel Rec LED 39W	1	39	No Action - Existing Efficient/LED Fixture	1	39	0.0	0.0	0.0
Roosevelt Middle School	1st floor	Hallway by Front Office	2x2 Flat Panel Rec LED 39W	4	39	No Action - Existing Efficient/LED Fixture	4	39	0.2	0.2	0.0
Roosevelt Middle School	1st floor	Hallway by Front Office	Exit Sign Combo LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	0.0
Roosevelt Middle School	1st floor	Hallway	2X4 Prism Rec 2L 32W T8	7	59	RT, 4' 10.5W DE LED 2L	7	21	0.4	0.1	0.3
Roosevelt Middle School	1st floor	Hallway	2X4 Prism Rec 2L 32W T8 BB	4	59	RT, 4' 10.5W DE LED 2L BB	4	21	0.2	0.1	0.2
Roosevelt Middle School	1st floor	Vestibule	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	1st floor	Vestibule	2X4 Prism Rec 2L 32W T8 BB	1	59	RT, 4' 10.5W DE LED 2L BB	1	21	0.1	0.0	0.0
Roosevelt Middle School	Level Below 1st Floor	Stairs - Down	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	Level Below 1st Floor	Private Office	8' Wrap BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	0.1
Roosevelt Middle School	Level Below 1st Floor	Private Office - Restroom	Globe Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Roosevelt Middle School	Level Below 1st Floor	Entrance and Restroom	Drum Inc 60W A 2L	1	120	LED 9W A19 Replacement 2L	1	19	0.1	0.0	0.1
Roosevelt Middle School	Level Below 1st Floor	Entrance	4' Wrap BP 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
Roosevelt Middle School	Level Below 1st Floor	Entrance	8' Vaportight BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	0.1
Roosevelt Middle School	Level Below 1st Floor	Entrance	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
Roosevelt Middle School	Level Below 1st Floor	Locker Room	4' Wrap BP 4L 32W T8	5	112	RT, 4' 10.5W DE LED 4L	5	42	0.6	0.2	0.4
Roosevelt Middle School	Level Below 1st Floor	Locker Room	8' Vaportight BP 4L 32W T8	2	112	RT, 4' 10.5W DE LED 4L	2	42	0.2	0.1	0.1
Roosevelt Middle School	Level Below 1st Floor	Locker Room	4' Vaportight BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	Level Below 1st Floor	Locker Room	Globe Inc 60W A	3	60	LED 9W A19 Replacement	3	10	0.2	0.0	0.2
Roosevelt Middle School	Level Below 1st Floor	Vestibule	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	Level Below 1st Floor	Elevator Equipment	Jelly Jar LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Roosevelt Middle School	1st floor	Elevator Cab	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	1st floor	Janitor Closet	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	1st floor	Janitor Closet	Globe LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Roosevelt Middle School	1st floor	Hallway	2X2 Prism Rec 4L T8	5	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	5	14	0.3	0.1	0.2
Roosevelt Middle School	1st floor	Hallway	2X2 Prism Rec 4L T8 BB	1	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit BB	1	14	0.1	0.0	0.0
Roosevelt Middle School	1st floor	Hallway	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	1st floor	Hallway	2X4 Prism Rec 2L 32W T8 BB	2	59	RT, 4' 10.5W DE LED 2L BB	2	21	0.1	0.0	0.1
Roosevelt Middle School	Level Below 1st Floor	Stairs - Down	Globe LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Roosevelt Middle School	Level Below 1st Floor	Storage Room	Keyless Inc 60W A	2	60	LED 9W A19 Replacement	2	10	0.1	0.0	0.1
Roosevelt Middle School	Level Below 1st Floor	Court	High Bay MH 400W	8	458	High Bay Compact LED 18 klm, WG	8	133	3.7	1.1	2.6
Roosevelt Middle School	Level Below 1st Floor	Bleachers & Walking Track	8' Wrap BP 4L 32W T8	3	112	RT, 4' 10.5W DE LED 4L	3	42	0.3	0.1	0.2
Roosevelt Middle School	Level Below 1st Floor	Stairs	Globe LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Roosevelt Middle School	1st floor	Hallway by Central Stairs	2X4 Prism Rec 2L 32W T8	3	59	RT, 4' 10.5W DE LED 2L	3	21	0.2	0.1	0.1
Roosevelt Middle School	1st floor	Hallway by Central Stairs	2X4 Prism Rec 2L 32W T8 BB	1	59	RT, 4' 10.5W DE LED 2L BB	1	21	0.1	0.0	0.0
Roosevelt Middle School	1st floor	Hallway	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	1st floor	Hallway	2X4 Prism Rec 2L 32W T8 BB	2	59	RT, 4' 10.5W DE LED 2L BB	2	21	0.1	0.0	0.1
Roosevelt Middle School	1st floor	Hallway	2X2 Prism Rec 4L T8	5	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	5	14	0.3	0.1	0.2
Roosevelt Middle School	1st floor	Hallway	2X2 Prism Rec 4L T8 BB	1	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit BB	1	14	0.1	0.0	0.0
Roosevelt Middle School	1st floor	Hallway	2X4 Prism Rec 2L 32W T8	5	59	RT, 4' 10.5W DE LED 2L	5	21	0.3	0.1	0.2
Roosevelt Middle School	1st floor	Hallway	2X4 Prism Rec 2L 32W T8 BB	3	59	RT, 4' 10.5W DE LED 2L BB	3	21	0.2	0.1	0.1
Roosevelt Middle School	1st floor	Janitor Closet	Keyless Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Roosevelt Middle School	1st floor	Hallway by Exit	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	1st floor	Hallway by Exit	2X4 Prism Rec 2L 32W T8 BB	2	59	RT, 4' 10.5W DE LED 2L BB	2	21	0.1	0.0	0.1
Roosevelt Middle School	1st floor	Hallway / Stairs - Down	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	1st floor	Private Office	8' Wrap BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	0.1
Roosevelt Middle School	1st floor	Storage	Globe Inc 60W A	2	60	LED 9W A19 Replacement	2	10	0.1	0.0	0.1
Roosevelt Middle School	Level Below 1st Floor	Locker Room	4' Wrap BP 4L 32W T8	6	112	RT, 4' 10.5W DE LED 4L	6	42	0.7	0.3	0.4
Roosevelt Middle School	Level Below 1st Floor	Locker Room	8' Vaportight BP 4L 32W T8	2	112	RT, 4' 10.5W DE LED 4L	2	42	0.2	0.1	0.1
Roosevelt Middle School	Level Below 1st Floor	Locker Room	Globe Inc 60W A	2	60	LED 9W A19 Replacement	2	10	0.1	0.0	0.1
Roosevelt Middle School	Level Below 1st Floor	Storage Room	Globe Inc 60W A	2	60	LED 9W A19 Replacement	2	10	0.1	0.0	0.1
Roosevelt Middle School	Level Below 1st Floor	Vestibule to Gym	2' Wrap 1L 32W U6 T8	1	31	2' Wrap 2' 7W LED 2L	1	14	0.0	0.0	0.0
Roosevelt Middle School	Basement	Mechanical Room	4' Wrap BP 2L 32W T8	12	59	RT, 4' 10.5W DE LED 2L	12	21	0.7	0.3	0.5
Roosevelt Middle School	Basement	Electrical Room	8' Strip LED 65W	1	65	No Action - Existing Efficient/LED Fixture	1	65	0.1	0.1	0.0
Roosevelt Middle School	Basement	Mechanical Room	8' Strip BP 4L 32W T8	3	112	RT, 4' 10.5W DE LED 4L	3	42	0.3	0.1	0.2
Roosevelt Middle School	Basement	Mechanical Room	Keyless LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Roosevelt Middle School	1st floor	Classroom - Shop 1	2X4 Prism Rec 2L 32W T8	8	59	RT, 4' 10.5W DE LED 2L	8	21	0.5	0.2	0.3
Roosevelt Middle School	1st floor	Classroom - Shop 2	2X4 Prism Rec 2L 32W T8 Flanged	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
Roosevelt Middle School	1st floor	Classroom - Shop 2	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Roosevelt Middle School	1st floor	Classroom - Shop 3	2X4 Prism Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
Roosevelt Middle School	1st floor	Classroom - Shop - 102	2X4 Prism Rec 3L 32W T8 DS	6	90	RT, 4' 10.5W DE LED 3L	6	32	0.5	0.2	0.4
Roosevelt Middle School	1st floor	Classroom - 103 - Music	2X4 Prism Rec 3L 32W T8 DS	19	90	RT, 4' 10.5W DE LED 3L	19	32	1.7	0.6	1.1
Roosevelt Middle School	1st floor	Classroom - 103 - Music - Storage Room	2X4 Prism Rec 3L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
Roosevelt Middle School	1st floor	Classroom - 103 - Music - Closet	Jelly Jar Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Roosevelt Middle School	1st floor	Classroom - 104	2X4 Prism Rec 3L 32W T8 DS	20	90	RT, 4' 10.5W DE LED 3L	20	32	1.8	0.6	1.2
Roosevelt Middle School	1st floor	Classroom - 104 - Storage Closet	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	1st floor	Classroom - 106	2X4 Prism Rec 3L 32W T8 DS	14	90	RT, 4' 10.5W DE LED 3L	14	32	1.3	0.4	0.8
Roosevelt Middle School	1st floor	Classroom - 106 - Storage Closet	Keyless Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Roosevelt Middle School	1st floor	Classroom - 107	2X4 Prism Rec 3L 32W T8 DS	14	90	RT, 4' 10.5W DE LED 3L	14	32	1.3	0.4	0.8
Roosevelt Middle School	1st floor	Classroom - 107 - Storage Closet	2X4 Prism Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
Roosevelt Middle School	1st floor	Classroom - 108	2X4 Prism Rec 3L 32W T8 DS	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	0.7
Roosevelt Middle School	/el Between 1st and 2	Stairs - NE	4' Strip BP 2L 32W T8								

Scope of Work

Location			Existing Fixture			Proposed Fixture			kW		
Building	Floor	Room	Fixture	Quantity	Input Wattage	ECM	Quantity	Input Wattage	Pre	Post	Savings
Roosevelt Middle School	1st Floor	Shower	2x2 Prism Rec 2L 32W U6 T8	1	59	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	1	14	0.1	0.0	0.0
Roosevelt Middle School	1st Floor	Shower	6" Rec Can Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Roosevelt Middle School	1st Floor	Weight Room	Keyless LED 15W A	8	15	LED 16W A21 Replacement	8	16	0.1	0.1	0.0
Roosevelt Middle School	1st Floor	Electrical Closet	4' Strip BP 2L	1	72	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.1
Roosevelt Middle School	1st Floor	Stairs NW	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	1st Floor	Dressing Room	2x2 Prism Rec 2L 32W U6 T8	3	59	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	3	14	0.2	0.0	0.1
Roosevelt Middle School	1st Floor	Vanity	Decorative Inc 25W G16.5 E12	36	25	LED 5W G16 E12 Replacement	36	5	0.9	0.2	0.7
Roosevelt Middle School	1st Floor	Restroom	3' Wall Bracket 2L	1	66	RT, 3' 12W DE LED 2L	1	24	0.1	0.0	0.0
Roosevelt Middle School	1st Floor	Restroom	2x2 Prism Rec 2L 32W U6 T8	1	59	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	1	14	0.1	0.0	0.0
Roosevelt Middle School	1st Floor	Shower	6" Rec Can Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Roosevelt Middle School	1st Floor	Dressing Room	2x2 Prism Rec 2L 32W U6 T8	5	59	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	5	14	0.3	0.1	0.2
Roosevelt Middle School	1st Floor	Restroom	2x2 Prism Rec 2L 32W U6 T8	1	59	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	1	14	0.1	0.0	0.0
Roosevelt Middle School	1st Floor	Shower	2x2 Prism Rec 2L 32W U6 T8	1	59	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	1	14	0.1	0.0	0.0
Roosevelt Middle School	1st Floor	Shower	6" Rec Can Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Roosevelt Middle School	1st Floor	Lockers	3' Wall Bracket 2L	1	66	RT, 3' 12W DE LED 2L	1	24	0.1	0.0	0.0
Roosevelt Middle School	2nd Floor	Hallway by NE Stairwell	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	2nd Floor	Hallway by NE Stairwell	2X4 Prism Rec 2L 32W T8 BB	1	59	RT, 4' 10.5W DE LED 2L BB	1	21	0.1	0.0	0.0
Roosevelt Middle School	2nd Floor	Hallway	2X4 Prism Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
Roosevelt Middle School	2nd Floor	Hallway	2X4 Prism Rec 2L 32W T8 BB	4	59	RT, 4' 10.5W DE LED 2L BB	4	21	0.2	0.1	0.2
Roosevelt Middle School	2nd Floor	Girl's Restroom	2X4 Prism Rec 2L 32W T8	6	59	RT, 4' 10.5W DE LED 2L	6	21	0.4	0.1	0.2
Roosevelt Middle School	2nd Floor	Stairwell SE	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	2nd Floor	Hallway	2X2 Prism Rec 4L T8	5	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	5	14	0.3	0.1	0.2
Roosevelt Middle School	2nd Floor	Hallway	2X2 Prism Rec 4L T8 BB	1	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit BB	1	14	0.1	0.0	0.0
Roosevelt Middle School	2nd Floor	Hallway	2X4 Prism Rec 2L 32W T8	9	59	RT, 4' 10.5W DE LED 2L	9	21	0.5	0.2	0.3
Roosevelt Middle School	2nd Floor	Hallway	2X4 Prism Rec 2L 32W T8 BB	4	59	RT, 4' 10.5W DE LED 2L BB	4	21	0.2	0.1	0.2
Roosevelt Middle School	2nd Floor	Hallway - Case Lighting	2' Strip 1L	3	26	RT, 2' 7W DE LED 1L	3	7	0.1	0.0	0.1
Roosevelt Middle School	2nd Floor	Hallway - Accent Lighting	Track Head LED 17W PAR38	4	17	LED 13W PAR38 Replacement	4	13	0.1	0.1	0.0
Roosevelt Middle School	2nd Floor	Hallway	2X2 Prism Rec 4L T8	5	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	5	14	0.3	0.1	0.2
Roosevelt Middle School	2nd Floor	Hallway	2X2 Prism Rec 4L T8 BB	1	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit BB	1	14	0.1	0.0	0.0
Roosevelt Middle School	2nd Floor	Stairwell Up	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	2nd Floor	Hallway	2X4 Prism Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
Roosevelt Middle School	2nd Floor	Hallway	2X4 Prism Rec 2L 32W T8 BB	4	59	RT, 4' 10.5W DE LED 2L BB	4	21	0.2	0.1	0.2
Roosevelt Middle School	2nd Floor	Boy's Restroom	2X4 Prism Rec 2L 32W T8	6	59	RT, 4' 10.5W DE LED 2L	6	21	0.4	0.1	0.2
Roosevelt Middle School	2nd Floor	Hallway by NW Stairwell	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	2nd Floor	Hallway by NW Stairwell	2X4 Prism Rec 2L 32W T8 BB	1	59	RT, 4' 10.5W DE LED 2L BB	1	21	0.1	0.0	0.0
Roosevelt Middle School	2nd Floor	Classroom 201	2X4 Prism Rec 3L 32W T8 DS	8	90	RT, 4' 10.5W DE LED 3L	8	32	0.7	0.3	0.5
Roosevelt Middle School	2nd Floor	Classroom 202	2X4 Prism Rec 3L 32W T8 DS	15	90	RT, 4' 10.5W DE LED 3L	15	32	1.4	0.5	0.9
Roosevelt Middle School	2nd Floor	Storage Closet	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	2nd Floor	Classroom 203	2X4 Prism Rec 3L 32W T8 DS	11	90	RT, 4' 10.5W DE LED 3L	11	32	1.0	0.3	0.6
Roosevelt Middle School	2nd Floor	Classroom 204	2X4 Prism Rec 3L 32W T8 DS	6	90	RT, 4' 10.5W DE LED 3L	6	32	0.5	0.2	0.4
Roosevelt Middle School	2nd Floor	Private Office	2X4 Prism Rec 3L 32W T8 DS	4	90	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	0.2
Roosevelt Middle School	2nd Floor	Private Office	2X4 Prism Rec 3L 32W T8 DS	4	90	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	0.2
Roosevelt Middle School	2nd Floor	Classroom 205	2X4 Prism Rec 4L 32W T8	4	112	RT, 4' 10.5W DE LED 4L	4	42	0.4	0.2	0.3
Roosevelt Middle School	2nd Floor	Classroom 206	2X4 Flat Panel Rec LED 48W	9	48	No Action - Existing Efficient/LED Fixture	9	48	0.4	0.4	0.0
Roosevelt Middle School	2nd Floor	Storage Closet	Keyless Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Roosevelt Middle School	2nd Floor	Central Stairwell	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Roosevelt Middle School	2nd Floor	Central Stairwell	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Roosevelt Middle School	2nd Floor	Central Stairwell	Wall Sconce LED 9W A	2	9	LED 9W A19 Replacement	2	10	0.0	0.0	0.0
Roosevelt Middle School	2nd Floor	Classroom 207	2X4 Flat Panel Rec LED 48W	6	48	No Action - Existing Efficient/LED Fixture	6	48	0.3	0.3	0.0
Roosevelt Middle School	2nd Floor	Classroom 208 - Computer Lab	2X4 Prism Rec 3L 32W T8	10	89	RT, 4' 10.5W DE LED 3L	10	32	0.9	0.3	0.6
Roosevelt Middle School	2nd Floor	Classroom 209	2X4 Prism Rec 3L 32W T8 DS	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	0.7
Roosevelt Middle School	2nd Floor	Classroom 211	2X4 Prism Rec 3L 32W T8 DS	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	0.7
Roosevelt Middle School	2nd Floor	Classroom 213 - Home Ec	2X4 Prism Rec 3L 32W T8 DS	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	0.7
Roosevelt Middle School	2nd Floor	Storage Closet	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	2nd Floor	Private Office	4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Roosevelt Middle School	2nd Floor	Classroom 213	2X4 Prism Rec 3L 32W T8 DS	10	90	RT, 4' 10.5W DE LED 3L	10	32	0.9	0.3	0.6
Roosevelt Middle School	2nd Floor	Storage Closet	6" Rec Can Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Roosevelt Middle School	2nd Floor	Stairwell NE	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	3rd Floor	Hallway by NE Stairwell	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	3rd Floor	Hallway by NE Stairwell	2X4 Prism Rec 2L 32W T8 BB	1	59	RT, 4' 10.5W DE LED 2L BB	1	21	0.1	0.0	0.0
Roosevelt Middle School	4th Floor	Ramp to Auditorium Balcony	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	4th Floor	Storage Closet	Globe Inc 150W A	1	150	LED 9W A19 Replacement	1	10	0.2	0.0	0.1
Roosevelt Middle School	3rd Floor	Hallway	2X4 Prism Rec 2L 32W T8	6	59	RT, 4' 10.5W DE LED 2L	6	21	0.4	0.1	0.2
Roosevelt Middle School	3rd Floor	Hallway	2X4 Prism Rec 2L 32W T8 BB	3	59	RT, 4' 10.5W DE LED 2L BB	3	21	0.2	0.1	0.1
Roosevelt Middle School	3rd Floor	Girl's Restroom	2X4 Prism Rec 2L 32W T8	6	59	RT, 4' 10.5W DE LED 2L	6	21	0.4	0.1	0.2
Roosevelt Middle School	3rd Floor	Stairwell SE	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	3rd Floor	Hallway	2X2 Prism Rec 4L T8	5	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	5	14	0.3	0.1	0.2
Roosevelt Middle School	3rd Floor	Hallway	2X2 Prism Rec 4L T8 BB	1	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit BB	1	14	0.1	0.0	0.0
Roosevelt Middle School	3rd Floor	Hallway	2X4 Prism Rec 2L 32W T8	9	59	RT, 4' 10.5W DE LED 2L	9	21	0.5	0.2	0.3
Roosevelt Middle School	3rd Floor	Hallway	2X4 Prism Rec 2L 32W T8 BB	3	59	RT, 4' 10.5W DE LED 2L BB	3	21	0.2	0.1	0.1
Roosevelt Middle School	3rd Floor	Hallway	2X2 Prism Rec 4L T8	5	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	5	14	0.3	0.1	0.2
Roosevelt Middle School	3rd Floor	Hallway	2X2 Prism Rec 4L T8 BB	1	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit BB	1	14	0.1	0.0	0.0
Roosevelt Middle School	3rd Floor	Stairwell SW	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	3rd Floor	Hallway	2X4 Prism Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
Roosevelt Middle School	3rd Floor	Hallway	2X4 Prism Rec 2L 32W T8 BB	4	59	RT, 4' 10.5W DE LED 2L BB	4	21	0.2	0.1	0.2
Roosevelt Middle School	3rd Floor	Boy's Restroom	2X4 Prism Rec 2L 32W T8	6	59	RT, 4' 10.5W DE LED 2L	6	21	0.4	0.1	0.2
Roosevelt Middle School	3rd Floor	Hallway by NW Stairwell	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	3rd Floor	Hallway by NW Stairwell	2X4 Prism Rec 2L 32W T8 BB	1	59	RT, 4' 10.5W DE LED 2L BB	1	21	0.1	0.0	0.0
Roosevelt Middle School	4th Floor	Ramp to Auditorium Balcony	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	4th Floor	Private Office - Custodial	4' Wrap BP 2L 32W T8	2	112	RT, 4' 10.5W DE LED 4L	2	42	0.2	0.1	0.1
Roosevelt Middle School	4th Floor	Stairwell NW	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Roosevelt Middle School	3rd Floor	Classroom 301	2X4 Prism Rec 3L 32W T8 DS	9	90	RT, 4' 10.5W DE LED 3L	9	32	0.8	0.3	0.5
Roosevelt Middle School	3rd Floor	Classroom 302	2X4 Prism Rec 3L 32W T8 DS	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	0.7
Roosevelt Middle School	3rd Floor	Classroom 303 - Break Room	2X4 Prism Rec 3L 32W T8 DS	6	90	RT, 4' 10.5W DE LED 3L	6	32	0.5	0.2	0.4
Roosevelt Middle School	3rd Floor	Classroom 304	2X4 Prism Rec 3L 32W T8	11	89	RT, 4' 10.5W DE LED 3L	11	32	1.0	0.3	0.6
Roosevelt Middle School	3rd Floor	Classroom 305	2X4 Prism Rec 3L 32W T8 DS	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	0.7
Roosevelt Middle School	3rd Floor	Classroom 306	2X4 Prism Rec 3L 32W T8 DS	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	0.7
Roosevelt Middle School	3rd Floor	Classroom 307	2X4 Prism Rec 3L 32W T8	8	89	RT, 4' 10.5W DE LED 3L	8	32	0.7	0.3	0.5
Roosevelt Middle School	3rd Floor	Storage Closet	Globe Inc 150W A	1	150	LED 9W A19 Replacement	1	10	0.2	0.0	0.1
Roosevelt Middle School	3rd Floor	Classroom 308	2X4 Prism Rec 3L 32W T8	9	89	RT, 4' 10.5W DE LED 3L	9	32	0.8	0.3	0.5
Roosevelt Middle School	3rd Floor	Classroom 309	2X4 Prism Rec 3L 32W T8 DS	6	90	RT, 4' 10.5W DE LED 3L					

Scope of Work

Location			Existing Fixture			Proposed Fixture			kW		
Building	Floor	Room	Fixture	Quantity	Input Wattage	ECM	Quantity	Input Wattage	Pre	Post	Savings
Roosevelt Middle School	3rd Floor	Passage	Keyless LED 9W A	1	9	No Action - Existing Efficient/LED Fixture	1	9	0.0	0.0	0.0
Roosevelt Middle School	3rd Floor	Storage Closet	Keyless Inc 60W A	2	60	LED 9W A19 Replacement	2	10	0.1	0.0	0.1
Roosevelt Middle School	3rd Floor	Electrical Closet	Keyless LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Roosevelt Middle School	3rd Floor	Passage	Keyless LED 9W A	1	9	No Action - Existing Efficient/LED Fixture	1	9	0.0	0.0	0.0
Roosevelt Middle School	3rd Floor	Storage Closet	Globe Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	0.1
Roosevelt Middle School	4th Floor	Storage Room	Drum Inc 60W A 2L	1	120	LED 9W A19 Replacement 2L	1	19	0.1	0.0	0.1
Roosevelt Middle School	4th Floor	Stair to Balcony NE	4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Roosevelt Middle School	4th Floor	Stair to Balcony NW	4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Roosevelt Middle School	1st Floor	Storage Under Central Stairs	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
USD 455 Food Service Building	1st Floor	Cafeteria	2X4 Flat Panel Rec LED 48W	48	48	No Action - Existing Efficient/LED Fixture	48	48	2.3	2.3	0.0
USD 455 Food Service Building	1st Floor	Cafeteria	2X4 Flat Panel Rec LED 48W BB	7	48	No Action - Existing Efficient/LED Fixture	7	48	0.3	0.3	0.0
USD 455 Food Service Building	1st Floor	Cafeteria	2X2 Flat Panel Rec LED 39W	1	39	No Action - Existing Efficient/LED Fixture	1	39	0.0	0.0	0.0
USD 455 Food Service Building	1st Floor	Cafeteria	Exit Sign Combo LED	2	3	No Action - Existing Efficient/LED Fixture	2	3	0.0	0.0	0.0
USD 455 Food Service Building	1st Floor	Cafeteria	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	0.0
USD 455 Food Service Building	1st Floor	Alcove	2X4 Flat Panel Rec LED 48W	1	48	No Action - Existing Efficient/LED Fixture	1	48	0.0	0.0	0.0
USD 455 Food Service Building	1st Floor	Men's Private Restroom	2X2 Flat Panel Rec LED 39W	1	39	No Action - Existing Efficient/LED Fixture	1	39	0.0	0.0	0.0
USD 455 Food Service Building	1st Floor	Men's Private Restroom	Vanity LED 9W A 2L	1	18	LED 9W A19 Replacement 2L	1	19	0.0	0.0	0.0
USD 455 Food Service Building	1st Floor	Women's Private Restroom	2X2 Flat Panel Rec LED 39W	1	39	No Action - Existing Efficient/LED Fixture	1	39	0.0	0.0	0.0
USD 455 Food Service Building	1st Floor	Women's Private Restroom	Vanity LED 9W A 2L	1	18	LED 9W A19 Replacement 2L	1	19	0.0	0.0	0.0
USD 455 Food Service Building	1st Floor	Hallway by Kitchen	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
USD 455 Food Service Building	1st Floor	Dish Washing	2X4 Flat Panel Rec LED 48W	6	48	No Action - Existing Efficient/LED Fixture	6	48	0.3	0.3	0.0
USD 455 Food Service Building	1st Floor	Janitor Closet	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
USD 455 Food Service Building	1st Floor	Dry Storage	4' Strip BP 2L 32W T8	3	59	RT, 4' 10.5W DE LED 2L	3	21	0.2	0.1	0.1
USD 455 Food Service Building	1st Floor	Prep Area	2X4 Prism Rec 2L 32W T8	14	59	RT, 4' 10.5W DE LED 2L	14	21	0.8	0.3	0.5
USD 455 Food Service Building	1st Floor	Prep Area	Jelly Jar LED 9W A	6	9	LED 9W A19 Replacement	6	10	0.1	0.1	0.0
USD 455 Food Service Building	1st Floor	Private Office	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
USD 455 Food Service Building	1st Floor	Ice Machine	4' Vaporlight BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
USD 455 Food Service Building	1st Floor	Walk in Cooler	Jelly Jar LED 9W A	2	9	LED 9W A19 Replacement	2	10	0.0	0.0	0.0
USD 455 Food Service Building	1st Floor	Walk in Freezer	Jelly Jar LED 9W A	2	9	LED 9W A19 Replacement	2	10	0.0	0.0	0.0
USD 455 Food Service Building	1st Floor	Break Room	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
USD 455 Food Service Building	1st Floor	Private Office	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
USD 455 Food Service Building	1st Floor	Passage / Vestibule	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
USD 455 Food Service Building	1st Floor	Serving	2X4 Prism Rec LED 37W	20	37	No Action - Existing Efficient/LED Fixture	20	37	0.7	0.7	0.0
USD 455 Food Service Building	Exterior	Canopy	8' Rec Can MV 100W	9	125	RC LED Retrofit Kit 2000 Lm 8" Adj. 2000 Lm	9	25	1.1	0.2	0.9
USD 455 Food Service Building	Exterior	Patio Wall and Doorway	Wall Pack LED 15W	2	15	No Action - Existing Efficient/LED Fixture	2	15	0.0	0.0	0.0
USD 455 Food Service Building	Exterior	Side Wall by Gym	Wall Pack LED 125W	1	125	No Action - Existing Efficient/LED Fixture	1	125	0.1	0.1	0.0
USD 455 Food Service Building	Exterior	Side Wall by Gym	Wall Pack LED 9W A	1	9	Wall Pack LED FT TWX 1.6 kLm PC	1	11	0.0	0.0	0.0
USD 455 Food Service Building	Exterior	Dock	Wall Pack LED 14W	1	14	No Action - Existing Efficient/LED Fixture	1	14	0.0	0.0	0.0
USD 455 Food Service Building	Exterior	Wall by Dock	Wall Pack LED 9W A	1	9	Wall Pack LED FT TWX 1.6 kLm PC	1	11	0.0	0.0	0.0
Field Kindley Technical Academy	1st Floor	Vestibule	8' Rec Can CFL 26W 4P 2L	2	50	RC LED Retrofit Kit 2000 Lm 8" Adj. 2000 Lm	2	25	0.1	0.1	0.1
Field Kindley Technical Academy	1st Floor	Lobby	8' Rec Can CFL 26W 4P 2L	5	50	RC LED Retrofit Kit 2000 Lm 8" Adj. 2000 Lm	5	25	0.3	0.1	0.1
Field Kindley Technical Academy	1st Floor	Walkway	8' Rec Can CFL 26W 4P 2L	8	50	RC LED Retrofit Kit 2000 Lm 8" Adj. 2000 Lm	8	25	0.4	0.2	0.2
Field Kindley Technical Academy	1st Floor	Private Office	2X4 D/ Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	0.2
Field Kindley Technical Academy	1st Floor	Storage Room	2X4 Prism Rec 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	0.1
Field Kindley Technical Academy	1st Floor	Kitchen	2X4 Prism Rec 3L 32W T8	3	89	RT, 4' 10.5W DE LED 3L	3	32	0.3	0.1	0.2
Field Kindley Technical Academy	1st Floor	Janitor Closet	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Field Kindley Technical Academy	1st Floor	Classroom	Decorative 6L 17W T8	18	94	RT, 2' 7W DE LED 6L	18	42	1.7	0.8	0.9
Field Kindley Technical Academy	1st Floor	Restroom Entrance Hallway	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Field Kindley Technical Academy	1st Floor	Men's Restroom	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Field Kindley Technical Academy	1st Floor	Women's Restroom	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	0.1
Field Kindley Technical Academy	Exterior	Entrance Canopy	Cylinder CFL 26W 4P 2L	15	50	RT, LED 8W 2P G24D/Q H 2L	15	16	0.8	0.2	0.5
Field Kindley Technical Academy	Exterior	Facade Sign	RIM LED 12W	3	12	No Action - Existing Efficient/LED Fixture	3	12	0.0	0.0	0.0
Field Kindley Technical Academy	Exterior	Back Door	Wall Pack LED 46W	1	46	No Action - Existing Efficient/LED Fixture	1	46	0.0	0.0	0.0
Field Kindley Technical Academy	Exterior	Flag	Flood LED 20W	3	20	No Action - Existing Efficient/LED Fixture	3	20	0.1	0.1	0.0
Field Kindley Technical Academy	1st Floor	Utility Shed	4' Strip BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	0.1
Field Kindley Technical Academy	Exterior	Back Door	Wall Pack LED 46W	1	46	No Action - Existing Efficient/LED Fixture	1	46	0.0	0.0	0.0
Field Kindley Technical Academy	Exterior	Parking Lot	Shoobox LED 155W	2	155	No Action - Existing Efficient/LED Fixture	2	155	0.3	0.3	0.0
Operations & Maintenance Building	1st Floor	Vestibule	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Operations & Maintenance Building	1st Floor	Open Office	2X4 Prism Rec 3L 32W T8	6	89	RT, 4' 10.5W DE LED 3L	6	32	0.5	0.2	0.3
Operations & Maintenance Building	1st Floor	Garage/Shop	8' Wrap BP 4L 32W T8	12	112	RT, 4' 10.5W DE LED 4L	12	42	1.3	0.5	0.8
Operations & Maintenance Building	1st Floor	Garage/Shop	8' Strip LED 65W	4	65	No Action - Existing Efficient/LED Fixture	4	65	0.3	0.3	0.0
Operations & Maintenance Building	1st Floor	Garage/Shop	High Bay LED 27W Corn Cob	1	27	No Action - Existing Efficient/LED Fixture	1	27	0.0	0.0	0.0
Operations & Maintenance Building	1st Floor	Welding Cage	8' Strip SP 2L	1	138	RT, 4' 10.5W DE LED 4L, 8' BC Kit	1	42	0.1	0.0	0.1
Operations & Maintenance Building	1st Floor	Garage/Shop	8' Industrial SP 2L	2	138	RT, 4' 10.5W DE LED 4L, 8' REFL Kit	2	42	0.3	0.1	0.2
Operations & Maintenance Building	1st Floor	Garage/Shop	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Operations & Maintenance Building	1st Floor	Salt Area	8' Strip SP 2L	3	138	RT, 4' 10.5W DE LED 4L, 8' BC Kit	3	42	0.4	0.1	0.3
Operations & Maintenance Building	1st Floor	Workshop	8' Strip SP 2L	12	138	RT, 4' 10.5W DE LED 4L, 8' BC Kit	12	42	1.7	0.5	1.2
Operations & Maintenance Building	1st Floor	Private Restroom	Keyless LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	0.0
Operations & Maintenance Building	1st Floor	Private Office	4' Wrap BP 2L 32W T8	3	59	RT, 4' 10.5W DE LED 2L	3	21	0.2	0.1	0.1
Operations & Maintenance Building	1st Floor	Private Restroom	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
Operations & Maintenance Building	Exterior	Man Door	Wall Pack LED 9W A	1	9	Wall Pack LED FT TWX 1.6 kLm PC	1	11	0.0	0.0	0.0
Operations & Maintenance Building	Exterior	Back Wall	Wall Pack LED 9W A	1	9	Wall Pack LED FT TWX 5 kLm PC	1	36	0.0	0.0	0.0



A young girl with long brown hair is sitting on the ground, leaning against a large tree trunk. She is wearing a grey sleeveless top and a blue beaded necklace. She is looking down at a notebook she is holding in her lap, with a pencil in her mouth. The scene is outdoors, with sunlight filtering through the trees, creating a warm and natural atmosphere. The background shows a grassy area and a path.

**BUILDING INFILTRATION /
WEATHERIZATION AUDIT**

12



Presents the following

Audit / Proposal
to
Navitas

25618 w 103rd street
olathe ks 66061

913-344-0039

lpiveral@navitas.us.com

Customer Contact --- Lee Piveral

Building Envelope Solutions, LLC proposes to upgrade the building envelope for the following buildings noted below. We have reviewed and audited the following buildings and have prepared this quote based on these audits.

Project Site: Coffeyville Schools

Quote Date: September 6, 2023

Revision A

Audit Date: August 14, 2023

Assessor(s): Neal Littrel

Calculation Method: **EGAM NR-04-01A (Derived from EC-128 - Energy Canada study 128, and ASHRAE Calculations)**

Air leakage is defined as, "the uncontrolled migration of conditioned air through the building envelope". Caused by pressure differences due to wind, chimney (or stack) effect and mechanical systems it has been shown to represent the single largest source of heat loss or gain through the building envelopes of nearly all types of buildings. Tests carried out by the National Research Council of Canada on High Rise Commercial and Residential Buildings, Schools, Supermarkets and Houses have shown levels as high as 20% or 30% of heat loss **could** be attributed to Air Leakage. Typical savings however tend to be in the 5% to 15% range though. Beyond representing potential for energy savings uncontrolled air leakage can affect thermal comfort of occupants air quality through ingress of contaminants from outside and the imbalance of mechanical systems, and the structural integrity of the building envelope through moisture migration. Control of air leakage involves the sealing of gaps cracks and holes using appropriate materials such as Fire Retardant, Poly Urethane Foam, caulks, and appropriate weather stripping materials. The goal is to create a continuous plane of 'air-tightness' to completely encompass the Building Envelope, including the need to "decouple" floor —to- floor, and to "compartmentalize" components of the building in order to equalize pressure differences.

Sites at Coffeyville Schools include; Field Kindley High School, Roosevelt Middle School, Community Elementary School, Early Learning Center, Field Kindley Technical Academy, Food Service Center, Board Office, Maintenance Building, which all show cost and savings per location.

All buildings reviewed by BES were included in the following scope.

Project Scope:

The following project Pricing includes materials, and installation for each of the buildings, based on the audit quantities listed. Additionally prints detailing scope of work indicating final location for the upgrades at each site are available.

Drawing Details: Colors of Marks/Lines reference shown on drawings with color coded template on drawing.

Projected Project Schedule.

This project is estimated to take roughly 2 Weeks to complete including all mobilization, installation, and clean up with roughly 4 - 5 installers and 1 PM on site full time. Please refer to the BES Installation protocol for details of our installation process.



Building Envelope Solutions, LLC.

2750 Vinland St., Oshkosh, WI 54901

Audit / Proposal

Bldg BES - 1

Field Kindley High School

1110 W. 8th St.
Coffeyville, KS



VISUAL COMMENTS or RECOMMENDATIONS:

The exterior doors should be weather-stripped to reduce air loss.

COST AND PAYBACK ANALYSIS:

Annual Cost of Leakage (Therms):	-	2,218
Annual Cost of Leakage (Kwh):	-	8,199
Annual Cost of Leakage:	-	
Price to Rectify Air Leakage:	-	
Payback in years:	-	

TYPE OF MEASURES:

	Building Level	quantity or distance
Ext. Door(s) to be weather-stripped & sealed.	First	45 Doors

AIR LEAKAGE:	feet	inches	
Doors	900	3/32	7.03 sq ft

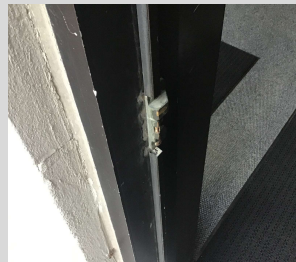
Totals	-		7.03 sq ft 0.65 sq meter
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ASSUMPTIONS & CALCULATIONS:

Power Rate		per Kwh
Heating Fuel	100% Natural Gas	perTherm
Building K	130	

Example Calculation

$$\frac{(\text{leakage} \times \text{bldg "K"}) \times (\text{wind P factor}) \times (\text{HDD} \times 24 \times 60) \times (.075) \times (.243)}{100,000 \times \text{System Efficiency\%}}$$



BES - ENERGY CONSERVATION STUDY





Building Envelope Solutions, LLC.

2750 Vinland St., Oshkosh, WI 54901

Audit / Proposal

Bldg BES - 2

Roosevelt Middle School

1000 W. 8th St.
Coffeyville, KS



VISUAL COMMENTS or RECOMMENDATIONS:

The exterior doors should be weather-stripped to reduce air loss.

COST AND PAYBACK ANALYSIS:

Annual Cost of Leakage (Therms):	-	493
Annual Cost of Leakage (Kwh):	-	182
Annual Cost of Leakage:	-	
Price to Rectify Air Leakage:	-	
Payback in years:	-	

TYPE OF MEASURES:

Ext. Door(s) to be weather-stripped & sealed.
Ext. Door(s) to be weather-stripped & sealed.

Building Level	quantity or distance
First	6 Doors
Second	4 Doors

AIR LEAKAGE:

	feet	inches		
Doors	120	3/32	0.94	sq ft
Doors	80	3/32	0.63	sq ft

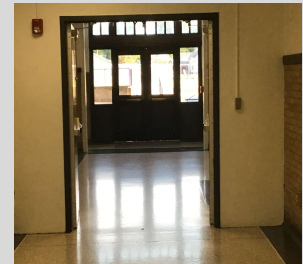
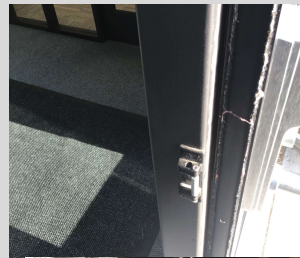
Totals	-		1.56	sq ft
			0.15	sq meter

ASSUMPTIONS & CALCULATIONS:

Power Rate		per Kwh
Heating Fuel	100% Natural Gas	perTherm
Building K	130	

Example Calculation

$$\frac{(\text{leakage} \times \text{bldg "K"}) \times (\text{wind P factor}) \times (\text{HDD} \times 24 \times 60) \times (.075) \times (.243)}{100,000 \times \text{System Efficiency\%}}$$



BES - ENERGY CONSERVATION STUDY





Building Envelope Solutions, LLC.

2750 Vinland St., Oshkosh, WI 54901

Audit / Proposal

Bldg BES - 3

Community Elementary School

102 S. Cline Rd.
Coffeyville, KS



VISUAL COMMENTS or RECOMMENDATIONS:

The exterior doors should be weather-stripped to reduce air loss. Garage door to be weather-stripped and sealed.

COST AND PAYBACK ANALYSIS:

Annual Cost of Leakage (Therms):	-	1,936
Annual Cost of Leakage (Kwh):	-	5,369
Annual Cost of Leakage:	-	
Price to Rectify Air Leakage:	-	
Payback in years:	-	

TYPE OF MEASURES:

	Building Level	quantity or distance
Ext. Door(s) to be weather-stripped & sealed.	First	67 Doors
Over-head Door(s) to be sealed on 4 sides.	First	1 OHDoors

AIR LEAKAGE:	feet	inches		
Doors	1340	1/16	6.98	sq ft
OHDoors	28	3/32	0.22	sq ft

Totals	-		7.20	sq ft
			0.67	sq meter

ASSUMPTIONS & CALCULATIONS:

Power Rate		per Kwh
Heating Fuel	100% Natural Gas	perTherm
Building K	120	

Example Calculation

$$\frac{(\text{leakage} \times \text{bldg "K"}) \times (\text{wind P factor}) \times (\text{HDD} \times 24 \times 60) \times (.075) \times (.243)}{100,000 \times \text{System Efficiency\%}}$$

BES - ENERGY CONSERVATION STUDY





Building Envelope Solutions, LLC.

2750 Vinland St., Oshkosh, WI 54901

Audit / Proposal

Bldg BES - 4

Early Learning Center

200 Walnut St.
Coffeyville, KS



VISUAL COMMENTS or RECOMMENDATIONS:

The exterior doors should be weather-stripped to reduce air loss. Air conditioner covers to be installed. Interior main foyer door to be weather-stripped and sealed.

COST AND PAYBACK ANALYSIS:

Annual Cost of Leakage (Therms):	-	1,590
Annual Cost of Leakage (Kwh):	-	5,395
Annual Cost of Leakage:	-	
Price to Rectify Air Leakage:	-	
Payback in years:	-	

TYPE OF MEASURES:

	Building Level	quantity or distance
Seal of air-conditioner w/ weather-strip, & flexible cover up to 20"H x 28"W	First	11 AirConCovers
Seal air-conditioner w/ weather-strip, & flexible cover up to 17"H x 25"W	First	1 AirConCovers
Ext. Door(s) to be weather-stripped & sealed.	First	22 Doors
Int. Door(s) to be weather-stripped & sealed for isolation. Main foyer door.	First	1 Doors

AIR LEAKAGE:	feet	inches		
AirConditionerCovers	66	1/8	0.69	sq ft
AirConditionerCovers	5	1/8	0.05	sq ft
Doors	440	3/32	3.44	sq ft
Doors	20	3/32	0.16	sq ft

Totals - 4.33 sq ft
0.40 sq meter

ASSUMPTIONS & CALCULATIONS:

Power Rate		per Kwh
Heating Fuel	100% Natural Gas	perTherm
Building K	140	

Example Calculation

$$\frac{(\text{leakage} \times \text{bldg "K"}) \times (\text{wind P factor}) \times (\text{HDD} \times 24 \times 60) \times (.075) \times (.243)}{100,000 \times \text{System Efficiency\%}}$$

BES - ENERGY CONSERVATION STUDY





Building Envelope Solutions, LLC.

2750 Vinland St., Oshkosh, WI 54901

Audit / Proposal

Bldg BES - 7

Board Office

615 S. Ellis St.
Coffeyville, KS



VISUAL COMMENTS or RECOMMENDATIONS:

The exterior doors should be weather-stripped to reduce air loss.

COST AND PAYBACK ANALYSIS:

Annual Cost of Leakage (Therms):	-	401
Annual Cost of Leakage (Kwh):	-	1,362
Annual Cost of Leakage:	-	
Price to Rectify Air Leakage:	-	
Payback in years:	-	

TYPE OF MEASURES:

	Building Level	quantity or distance
Ext. Door(s) to be weather-stripped & sealed.	First	7 Doors

AIR LEAKAGE:

	feet	inches		
Doors	140	3/32	1.09	sq ft
Totals	-		1.09	sq ft
				0.10 sq meter

ASSUMPTIONS & CALCULATIONS:

Power Rate		per Kwh
Heating Fuel	100% Natural Gas	perTherm
Building K	140	

Example Calculation

$$\frac{(\text{leakage x bldg "K"}) \times (\text{wind P factor}) \times (\text{HDD x 24 x 60}) \times (.075) \times (.243)}{100,000 \times \text{System Efficiency\%}}$$

BES - ENERGY CONSERVATION STUDY





Building Envelope Solutions, LLC.

2750 Vinland St., Oshkosh, WI 54901

Audit / Proposal

Bldg BES - 5

Field Kindley Technical Academy

615 S. Ellis St.
Coffeyville, KS



VISUAL COMMENTS or RECOMMENDATIONS:

The exterior doors should be weather-stripped to reduce air loss.

COST AND PAYBACK ANALYSIS:

Annual Cost of Leakage (Therms):	-	397
Annual Cost of Leakage (Kwh):	-	1,237
Annual Cost of Leakage:	-	
Price to Rectify Air Leakage:	-	
Payback in years:	-	

TYPE OF MEASURES:

Ext. Door(s) to be weather-stripped & sealed.9' door.
Ext. Door(s) to be weather-stripped & sealed.

Building Level quantity or distance

First	1 Doors
First	5 Doors

AIR LEAKAGE:

	feet	inches		
Doors	24	3/32	0.19	sq ft
Doors	100	3/32	0.78	sq ft

Totals	-		0.97	sq ft
			0.09	sq meter

ASSUMPTIONS & CALCULATIONS:

Power Rate		per Kwh
Heating Fuel	100% Natural Gas	perTherm
Building K	145	

Example Calculation

$$\frac{(\text{leakage x bldg "K"}) \times (\text{wind P factor}) \times (\text{HDD x 24 x 60}) \times (.075) \times (.243)}{100,000 \times \text{System Efficiency\%}}$$

BES - ENERGY CONSERVATION STUDY





Building Envelope Solutions, LLC.

2750 Vinland St., Oshkosh, WI 54901

Audit / Proposal

Bldg BES - 6

Food Service Center

1000 W. 8th St.
Coffeyville, KS



VISUAL COMMENTS or RECOMMENDATIONS:

The exterior doors should be weather-stripped to reduce air loss.

COST AND PAYBACK ANALYSIS:

Annual Cost of Leakage (Therms):	-	717
Annual Cost of Leakage (Kwh):	-	2,234
Annual Cost of Leakage:	-	
Price to Rectify Air Leakage:	-	
Payback in years:	-	

TYPE OF MEASURES:

	Building Level	quantity or distance
Ext. Door(s) to be weather-stripped & sealed.	First	9 Doors
Ext. Door(s) to be weather-stripped & sealed. 48" wide.	First	1 Doors

AIR LEAKAGE:

	feet	inches		
Doors	180	3/32	1.41	sq ft
Doors	44	3/32	0.34	sq ft

Totals	-		1.75 sq ft	
			0.16 sq meter	

ASSUMPTIONS & CALCULATIONS:

Power Rate		per Kwh
Heating Fuel	100% Natural Gas	perTherm
Building K	145	

Example Calculation

$$\frac{(\text{leakage x bldg "K"}) \times (\text{wind P factor}) \times (\text{HDD x 24 x 60}) \times (.075) \times (.243)}{100,000 \times \text{System Efficiency\%}}$$

BES - ENERGY CONSERVATION STUDY





Building Envelope Solutions, LLC.

2750 Vinland St., Oshkosh, WI 54901

Audit / Proposal

Superior Materials

It is in the best interest of Building Envelope Solutions, and any BES Clients, that BES utilizes the highest quality materials and that these materials are installed with careful attention to detail..

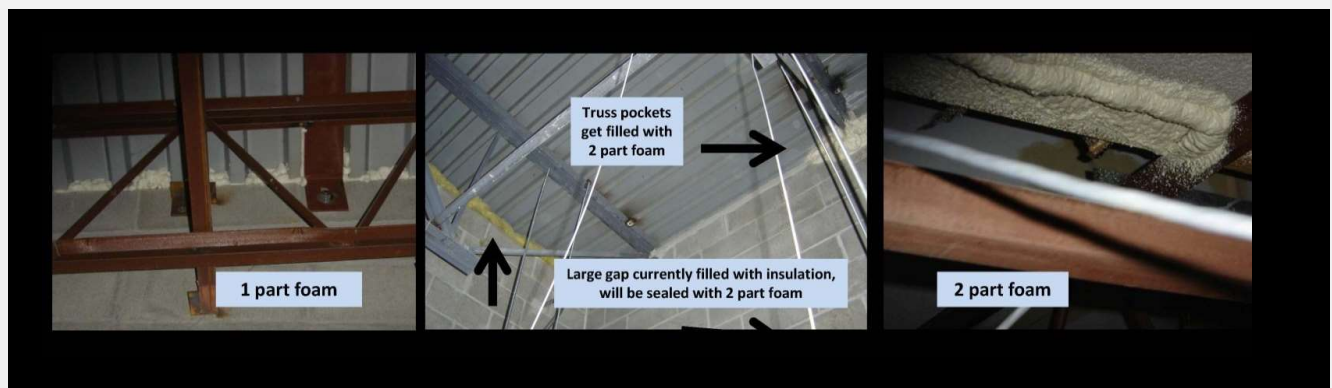
We utilize caulk(s) that carry a 50 year warranty from the manufacturer. If properly placed, and applied in areas with typical/standard exposures to UV, etc, the material will perform well for the expected life.

Our door sealing materials consist of a heavy metal aluminum carrier, and strip of Q-Ion which is a formed & angled sponge wrapped in vinyl. It's applied to the door frames, secured with screws, and caulked for added durability and air sealing through the carrier. This is a very long life material, and provided it's not physically cut or damaged, we expect it to last 10-20 years.

The sweeps utilize a double fin film seal between a set of brushes, also embedded in a heavy aluminum carrier. The material is typically placed under the kick plate of the door, and secured in the same method as the rest of the door seal. Due to brushing the ground, the sweep protects the film to keep the seal tight,



Our Foams are typically not exposed to UVA or UVB rays. If not exposed to these rays, or covered with paint when in areas that are exposed, the foam has a minimum of 25 year life span according to the manufacturers. The reality is that these foams have been in the field longer than this, but there is not a lot of data for the anticipated life span past 25 years. We apply 1 and 2 part foam depending on the type of joint we are sealing, and it's visibility to the public eye.



For additional questions regarding the products, or use of the BES Products, please contact us at any time.



BUILDING AUTOMATION SYSTEM POINTS LIST

13



RETRO-COMMISSIONING MATRIX

TAG	CLEANING							MECHANICAL											CONTROLS																									
	Coils			Fan / heat wheel				Motor / belt / bearings					Damper operation / seals				Misc.		Actuators						Sensor operation / calibration						Seq. of Operations													
	Cooling Coil	Heating Coil	Condenser Coil	Supply Fan	Return Fan	Exhaust Fan	Condenser Fan(s)	Heat wheel	Supply Fan	Return Fan	Exhaust Fan	Condenser Fan	Heat wheel	Pump	SA Damper	OA damper	RA damper	EA damper	Mixing damper	Cooling (Dx Compressors)	Heating (Gas or Elect.)	Cooling Valve (Hydronic)	Heating Valve (Hydronic)	SA Damper	OA damper	RA damper	EA damper	Mixing damper	Cooling Valve (Hydronic)	Heating Valve (Hydronic)	Airflow	Duct Static	Differential Pressure	Supply Air Temp	Return Air Temp	Mixed Air Temp	Space Temperature	Fan Speed Modulation	Heat wheel operation	Pump Speed Modulation	Economizer operation	Occupied	Unoccupied	Setpoints
ECM #71 – FIELD KINDLEY HIGH SCHOOL & CLINIC																																												
RTU-H01	X	X	X	X		X	X	X		X	X				X	X	X		X			X		X	X	X			X		X		X	X	X	X	X			X	X	X	X	
RTU-H08	X	X	X	X			X	X		X	X				X	X				X	X				X	X									X						X	X	X	X
RTU-H09	X	X	X	X			X	X		X	X				X	X				X	X				X	X									X						X	X	X	X
RTU-H11	X	X	X	X		X	X	X		X	X				X	X	X		X	X				X	X	X								X		X	X	X			X	X	X	X
FT-H101		X		X				X							X							X	X							X	X											X	X	X
FT-H102		X		X				X							X							X	X							X	X											X	X	X
FT-H103		X		X				X							X							X	X							X	X											X	X	X
FT-H104		X		X				X							X							X	X							X	X											X	X	X
FT-H105		X		X				X							X							X	X							X	X											X	X	X
FT-H106		X		X				X							X							X	X							X	X											X	X	X
FT-H107		X		X				X							X							X	X							X	X											X	X	X
FT-H108		X		X				X							X							X	X							X	X											X	X	X
FT-H109		X		X				X							X							X	X							X	X											X	X	X
FT-H110		X		X				X							X							X	X							X	X											X	X	X
FT-H111		X		X				X							X							X	X							X	X											X	X	X
FT-H112		X		X				X							X							X	X							X	X											X	X	X
FT-H113		X		X				X							X							X	X							X	X											X	X	X
FT-H114		X		X				X							X							X	X							X	X											X	X	X
FT-H115		X		X				X							X							X	X							X	X											X	X	X
FT-H116		X		X				X							X							X	X							X	X											X	X	X
FT-H117		X		X				X							X							X	X							X	X											X	X	X
FT-H119		X		X				X							X							X	X							X	X											X	X	X
FT-H201		X		X				X							X							X	X							X	X											X	X	X
FT-H202		X		X				X							X							X	X							X	X											X	X	X
FT-H203		X		X				X							X							X	X							X	X											X	X	X
FT-H204		X		X				X							X							X	X							X	X											X	X	X
FT-H205		X		X				X							X							X	X							X	X											X	X	X
FT-H206		X		X				X							X							X	X							X	X											X	X	X
FT-H207		X		X				X							X							X	X							X	X											X	X	X
FT-H208		X		X				X							X							X	X							X	X											X	X	X
FT-H209		X		X				X							X							X	X							X	X											X	X	X
FT-H210		X		X				X							X							X	X							X	X											X	X	X
FT-H211		X		X				X							X							X	X							X	X											X	X	X
FT-H212		X		X				X							X							X	X							X	X											X	X	X
FT-H213		X		X				X							X							X	X							X	X											X	X	X
FT-H221A		X		X				X							X							X	X							X	X											X	X	X
FT-H301		X		X				X							X							X	X							X	X											X	X	X
FT-H301A		X		X				X							X							X	X							X	X											X	X	X
FT-H302		X		X				X							X							X	X							X	X											X	X	X
FT-H303		X		X				X							X							X	X							X	X											X	X	X
FT-H304		X		X				X							X							X	X							X	X											X	X	X
FT-H305		X		X				X							X							X	X							X	X											X	X	X
FT-H306		X		X				X							X							X	X							X	X											X	X	X
FT-H307		X		X				X							X							X	X							X	X											X	X	X
FT-H308		X		X				X							X							X	X							X	X											X	X	X
FT-H309		X		X				X							X							X	X							X	X											X	X	X
FT-H310		X		X				X							X							X	X							X	X											X	X	X
FT-H311		X		X				X							X							X	X							X	X											X	X	X
FT-H312		X		X				X							X							X	X							X	X											X	X	X
FT-H313		X		X				X							X							X	X							X	X											X	X	X
FT-H314		X		X				X							X							X	X							X	X											X	X	X
FT-H315		X		X				X							X							X	X							X	X											X	X	X
FT-H316		X		X				X							X							X	X							X	X											X	X	X
FT-H317		X		X				X							X							X	X							X	X											X	X	X

TAG	CLEANING							MECHANICAL											CONTROLS																										
	Coils			Fan / heat wheel				Motor / belt / bearings					Damper operation / seals					Misc.	Actuators					Sensor operation / calibration						Seq. of Operations															
	Cooling Coil	Heating Coil	Condenser Coil	Supply Fan	Return Fan	Exhaust Fan	Condenser Fan(s)	Heat wheel	Supply Fan	Return Fan	Exhaust Fan	Condenser Fan	Heat wheel	Pump	SA Damper	OA damper	RA damper	EA damper	Mixing damper	Cooling (Dx Compressors)	Heating (Gas or Elect.)	Cooling Valve (Hydronic)	Heating Valve (Hydronic)	SA Damper	OA damper	RA damper	EA damper	Mixing damper	Cooling Valve (Hydronic)	Heating Valve (Hydronic)	Airflow	Duct Static	Differential Pressure	Supply Air Temp	Return Air Temp	Mixed Air Temp	Space Temperature	Fan Speed Modulation	Heat wheel operation	Pump Speed Modulation	Economizer operation	Occupied	Unoccupied	Setpoints	
VAV-H101		X													X								X	X					X	X											X	X	X		
VAV-H101A		X													X								X	X					X	X												X	X	X	
VAV-H101B		X													X								X	X					X	X												X	X	X	
VAV-H101C		X													X								X	X					X	X													X	X	X
FC-H05		X		X				X															X						X													X	X	X	
FC-H06		X		X				X															X						X													X	X	X	
FC-H07		X		X				X															X						X													X	X	X	
FC-H08		X		X				X															X						X													X	X	X	
FC-H09		X		X				X															X						X													X	X	X	
FC-H10		X		X				X															X						X													X	X	X	
FC-H11		X		X				X															X						X													X	X	X	
FC-H12		X		X				X															X						X													X	X	X	
FC-H13		X		X				X															X						X													X	X	X	
FC-H14		X		X				X															X						X													X	X	X	
FC-H15		X		X				X															X						X													X	X	X	
FC-H16		X		X				X															X						X													X	X	X	
FC-H17		X		X				X															X						X													X	X	X	
FC-H18		X		X				X															X						X													X	X	X	
FC-H19		X		X				X															X						X													X	X	X	
BC-H1	X		X	X			X				X									X									X												X	X	X		
BC-H2	X		X	X			X				X									X									X												X	X	X		
BC-H3	X		X	X			X				X									X									X												X	X	X		
BC-H4	X		X	X			X				X									X									X												X	X	X		
UV-H1		X		X				X								X	X						X					X													X	X	X		
UV-H2		X		X				X								X	X						X					X													X	X	X		
UV-H3		X		X				X								X	X						X					X													X	X	X		
UV-H5		X		X				X								X	X						X					X													X	X	X		

TAG	CLEANING							MECHANICAL										CONTROLS																									
	Coils			Fan / heat wheel				Motor / belt / bearings					Damper operation / seals					Misc.				Actuators						Sensor operation / calibration						Seq. of Operations									
	Cooling Coil	Heating Coil	Condenser Coil	Supply Fan	Return Fan	Exhaust Fan	Condenser Fan(s)	Heat wheel	Supply Fan	Return Fan	Exhaust Fan	Condenser Fan	Heat wheel	Pump	SA Damper	OA damper	RA damper	EA damper	Mixing damper	Cooling (Dx Compressors)	Heating (Gas or Elect.)	Cooling Valve (Hydronic)	Heating Valve (Hydronic)	SA Damper	OA damper	RA damper	EA damper	Mixing damper	Cooling Valve (Hydronic)	Heating Valve (Hydronic)	Airflow	Duct Static	Differential Pressure	Supply Air Temp	Return Air Temp	Mixed Air Temp	Space Temperature	Fan Speed Modulation	Heat wheel operation	Pump Speed Modulation	Economizer operation	Occupied	Unoccupied
ECM #72 – ROOSEVELT MIDDLE SCHOOL																																											
RTU-M2	X	X	X	X		X	X	X		X	X				X	X	X		X			X		X	X				X	X	X		X	X	X				X	X	X	X	
FT-M101		X		X				X							X							X	X						X	X			X								X	X	X
FT-M103		X		X				X							X							X	X						X	X			X								X	X	X
FT-M104		X		X				X							X							X	X						X	X			X								X	X	X
FT-M105		X		X				X							X							X	X						X	X			X								X	X	X
FT-M105A		X		X				X							X							X	X						X	X			X								X	X	X
FT-M106		X		X				X							X							X	X						X	X			X								X	X	X
FT-M107		X		X				X							X							X	X						X	X			X								X	X	X
FT-M108		X		X				X							X							X	X						X	X			X								X	X	X
FT-M109		X		X				X							X							X	X						X	X			X								X	X	X
FT-M110		X		X				X							X							X	X						X	X			X								X	X	X
FT-M111		X		X				X							X							X	X						X	X			X								X	X	X
FT-M112		X		X				X							X							X	X						X	X			X								X	X	X
FT-M201		X		X				X							X							X	X						X	X			X								X	X	X
FT-M202		X		X				X							X							X	X						X	X			X								X	X	X
FT-M203		X		X				X							X							X	X						X	X			X								X	X	X
FT-M204		X		X				X							X							X	X						X	X			X								X	X	X
FT-M205		X		X				X							X							X	X						X	X			X								X	X	X
FT-M206		X		X				X							X							X	X						X	X			X								X	X	X
FT-M207		X		X				X							X							X	X						X	X			X								X	X	X
FT-M208		X		X				X							X							X	X						X	X			X								X	X	X
FT-M209		X		X				X							X							X	X						X	X			X								X	X	X
FT-M210		X		X				X							X							X	X						X	X			X								X	X	X
FT-M210A		X		X				X							X							X	X						X	X			X								X	X	X
FT-M211		X		X				X							X							X	X						X	X			X								X	X	X
FT-M212		X		X				X							X							X	X						X	X			X								X	X	X
FT-M301		X		X				X							X							X	X						X	X			X								X	X	X
FT-M302		X		X				X							X							X	X						X	X			X								X	X	X
FT-M303		X		X				X							X							X	X						X	X			X								X	X	X
FT-M304		X		X				X							X							X	X						X	X			X								X	X	X
FT-M305		X		X				X							X							X	X						X	X			X								X	X	X
FT-M306		X		X				X							X							X	X						X	X			X								X	X	X
FT-M307		X		X				X							X							X	X						X	X			X								X	X	X
FT-M308		X		X				X							X							X	X						X	X			X								X	X	X
FT-M309		X		X				X							X							X	X						X	X			X								X	X	X
FT-M310		X		X				X							X							X	X						X	X			X								X	X	X
FT-M310A		X		X				X							X							X	X						X	X			X								X	X	X
FT-M311		X		X				X							X							X	X						X	X			X								X	X	X
FT-M312		X		X				X							X							X	X						X	X			X								X	X	X
FT-M313		X		X				X							X							X	X						X	X			X								X	X	X
VAV-M201		X													X							X	X						X	X			X								X	X	X
VAV-M202		X													X							X	X						X	X			X								X	X	X
HP-M1	X	X	X	X			X				X									X	X																			X	X	X	
HP-M2	X	X	X	X			X				X									X	X																			X	X	X	
HP-M3	X	X	X	X			X				X									X	X																			X	X	X	
HP-M4	X	X	X	X			X				X									X	X																			X	X	X	
FC-M01		X		X				X														X								X										X	X	X	
FC-M02		X		X				X														X								X										X	X	X	
FC-M03		X		X				X														X								X										X	X	X	
FC-M04		X		X				X														X								X										X	X	X	
BC-M1	X	X	X	X			X				X				X	X				X	X							X											X	X	X		
BC-M2	X	X	X	X			X				X				X	X				X	X							X											X	X	X		
BC-M3	X	X	X	X			X				X				X	X				X	X							X											X	X	X		
BC-M4	X	X	X	X			X				X				X	X				X	X							X											X	X	X		

TAG	CLEANING							MECHANICAL											CONTROLS																									
	Coils			Fan / heat wheel				Motor / belt / bearings					Damper operation / seals					Misc.	Actuators						Sensor operation / calibration						Seq. of Operations													
	Cooling Coil	Heating Coil	Condenser Coil	Supply Fan	Return Fan	Exhaust Fan	Condenser Fan(s)	Heat wheel	Supply Fan	Return Fan	Exhaust Fan	Condenser Fan	Heat wheel	Pump	SA Damper	OA damper	RA damper	EA damper	Bypass damper	Cooling (Dx Compressors)	Heating (Gas or Elect.)	Cooling Valve (Hydronic)	Heating Valve (Hydronic)	SA Damper	OA damper	RA damper	EA damper	Bypass damper	Cooling Valve (Hydronic)	Heating Valve (Hydronic)	Airflow	Duct Static	Differential Pressure	Supply Air Temp	Return Air Temp	Mixed Air Temp	Space Temperature	Fan Speed Modulation	Heat wheel operation	Pump Speed Modulation	Economizer operation	Occupied	Unoccupied	Setpoints
ECM #73 – COMMUNITY ELEMENTARY SCHOOL																																												
RTU-01	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X	X				X	X	X	X	
RTU-02	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-03	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-04	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-05	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-06	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-07	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-08	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-09	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-10	X	X	X	X			X				X				X	X				X	X			X	X									X		X				X	X	X	X	
RTU-11	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-12	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-13	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-14	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-15	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-16	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-17	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-18	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-19	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-20	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-21	X	X	X	X			X				X				X	X		X		X	X			X	X									X			X				X	X	X	X
RTU-22	X	X	X	X			X				X				X	X		X		X	X			X	X									X			X				X	X	X	X
RTU-23	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-24	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-25	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-26	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-27	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-28	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-29	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-30	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-31	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-32	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-33	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-34	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-35	X	X	X	X		X				X		X			X	X	X				X	X			X	X								X			X				X	X	X	X
RTU-36	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-37	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-38	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-39	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-40	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-41	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-42	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-43	X	X	X	X			X				X				X	X		X		X	X			X	X									X			X				X	X	X	X
RTU-44	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-45	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-46	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-47	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-48	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-49	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-50	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-51	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-52	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-53	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X
RTU-54	X	X	X	X			X				X				X	X				X	X			X	X									X			X				X	X	X	X

TAG	CLEANING							MECHANICAL											CONTROLS																								
	Coils			Fan / heat wheel				Motor / belt / bearings					Damper operation / seals					Misc.	Actuators						Sensor operation / calibration						Seq. of Operations												
	Cooling Coil	Heating Coil	Condenser Coil	Supply Fan	Return Fan	Exhaust Fan	Condenser Fan(s)	Heat wheel	Supply Fan	Return Fan	Exhaust Fan	Condenser Fan	Heat wheel	Pump	SA Damper	OA damper	RA damper	EA damper	Bypass damper	Cooling (Dx Compressors)	Heating (Gas or Elect.)	Cooling Valve (Hydronic)	Heating Valve (Hydronic)	SA Damper	OA damper	RA damper	EA damper	Bypass damper	Cooling Valve (Hydronic)	Heating Valve (Hydronic)	Airflow	Duct Static	Differential Pressure	Supply Air Temp	Return Air Temp	Mixed Air Temp	Space Temperature	Fan Speed Modulation	Heat wheel operation	Pump Speed Modulation	Economizer operation	Occupied	Unoccupied
RTU-55A	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X	X				X	X	X	X
RTU-55B	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X	X				X	X	X	X
RTU-56	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-57	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-58	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-59	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-60	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-61	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-62	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-63	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-64	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-65	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-66	X	X	X	X			X	X			X				X	X		X	X	X			X	X									X		X					X	X	X	X
RTU-67	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-68	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-69	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-70	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-71	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-72	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-73	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-74	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-75	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-76	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-77	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-78	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-79	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-80	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-81	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-82	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-83A	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-83B	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-84	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-85	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
RTU-86	X	X	X	X			X	X			X				X	X			X	X			X	X									X		X					X	X	X	X
ZD-21A															X									X								X		X					X	X	X	X	
ZD-21B															X									X									X		X					X	X	X	X
ZD-21C															X									X									X		X					X	X	X	X
ZD-21D															X									X									X		X					X	X	X	X
ZD-21E															X									X									X		X					X	X	X	X
ZD-21F															X									X									X		X					X	X	X	X
ZD-30A															X									X									X		X					X	X	X	X
ZD-35A															X									X									X		X					X	X	X	X
ZD-35B															X									X									X		X					X	X	X	X
ZD-35C															X									X									X		X					X	X	X	X
ZD-35D															X									X									X		X					X	X	X	X
ZD-35E															X									X									X		X					X	X	X	X
ZD-35F															X									X									X		X					X	X	X	X
ZD-36A															X									X									X		X					X	X	X	X
ZD-36B															X									X									X		X					X	X	X	X
ZD-43A															X									X									X		X					X	X	X	X
ZD-43B															X									X									X		X					X	X	X	X
ZD-43C															X									X									X		X					X	X	X	X
ZD-43D															X									X									X		X					X	X	X	X
ZD-43E															X									X									X		X					X	X	X	X
ZD-43F															X									X									X		X					X	X	X	X

TAG	CLEANING								MECHANICAL											CONTROLS																									
	Coils			Fan / heat wheel					Motor / belt / bearings					Damper operation / seals					Misc.	Actuators						Sensor operation / calibration						Seq. of Operations													
	Cooling Coil	Heating Coil	Condenser Coil	Supply Fan	Return Fan	Exhaust Fan	Condenser Fan(s)	Heat wheel	Supply Fan	Return Fan	Exhaust Fan	Condenser Fan	Heat wheel	Pump	SA Damper	OA damper	RA damper	EA damper	Bypass damper	Cooling (Dx Compressors)	Heating (Gas or Elect.)	Cooling Valve (Hydronic)	Heating Valve (Hydronic)	SA Damper	OA damper	RA damper	EA damper	Bypass damper	Cooling Valve (Hydronic)	Heating Valve (Hydronic)	Airflow	Duct Static	Differential Pressure	Supply Air Temp	Return Air Temp	Mixed Air Temp	Space Temperature	Fan Speed Modulation	Heat wheel operation	Pump Speed Modulation	Economizer operation	Occupied	Unoccupied	Setpoints	
ZD-43G															X									X						X													X	X	X
ZD-43H															X									X						X													X	X	X
ZD-43I															X									X						X												X	X	X	
ZD-43J															X									X						X												X	X	X	
ZD-51A															X									X						X												X	X	X	
ZD-66A															X									X						X												X	X	X	
ZD-66B															X									X						X												X	X	X	
ZD-66C															X									X						X												X	X	X	
ZD-66D															X									X						X												X	X	X	
ZD-66E															X									X						X												X	X	X	
ZD-66F															X									X						X												X	X	X	
ZD-77A															X									X						X												X	X	X	
ZD-77B															X									X						X												X	X	X	
ZD-21G															X									X						X												X	X	X	
ZD-35G															X									X						X												X	X	X	
ZD-43K															X									X						X												X	X	X	
ZD-66G															X									X						X												X	X	X	

TAG	CLEANING							MECHANICAL											CONTROLS																									
	Coils			Fan / heat wheel				Motor / belt / bearings					Damper operation / seals				Misc.		Actuators					Sensor operation / calibration					Seq. of Operations															
	Cooling Coil	Heating Coil	Condenser Coil	Supply Fan	Return Fan	Exhaust Fan	Condenser Fan(s)	Heat wheel	Supply Fan	Return Fan	Exhaust Fan	Condenser Fan	Heat wheel	Pump	SA Damper	OA damper	RA damper	EA damper	Mixing damper	Cooling (Dx Compressors)	Heating (Gas or Elect.)	Cooling Valve (Hydronic)	Heating Valve (Steam)	SA Damper	OA damper	RA damper	EA damper	Mixing damper	Cooling Valve (Hydronic)	Heating Valve (Steam)	Airflow	Duct Static	Differential Pressure	Supply Air Temp	Return Air Temp	Mixed Air Temp	Space Temperature	Fan Speed Modulation	Heat wheel operation	Pump Speed Modulation	Economizer operation	Occupied	Unoccupied	Setpoints
ECM #74 – JH EARLY CHILDHOOD CENTER																																												
CV Air Handling Unit		X		X				X							X	X						X		X	X																X	X	X	
UV Room 102		X		X				X																																		X	X	X
UV Room 103 Kitchen		X		X				X																																		X	X	X
UV Room 104		X		X				X																																		X	X	X
UV Room 107 Playroom		X		X				X																																		X	X	X
UV Room 108		X		X				X																																		X	X	X
UV Room 109		X		X				X							X	X						X		X	X									X							X	X	X	
UV Room 110		X		X				X																																	X	X	X	
UV Room 111		X		X				X							X	X						X		X	X								X							X	X	X		
UV Room 113		X		X				X							X	X						X		X	X								X							X	X	X		
UV Room 118		X		X				X							X	X						X		X	X								X							X	X	X		
UV Room 120		X		X				X							X	X						X		X	X								X							X	X	X		
BCU Room 101	X	X	X	X			X	X			X									X	X																				X	X	X	
BCU Main Office 105	X	X	X	X			X	X			X									X	X																				X	X	X	
BCU Room 109	X		X	X			X	X			X									X																				X	X	X		
BCU Room 111	X		X	X			X	X			X									X																				X	X	X		
BCU Room 113	X		X	X			X	X			X									X																				X	X	X		
BCU Room 118	X		X	X			X	X			X									X																				X	X	X		
BCU Room 120	X		X	X			X	X			X									X																				X	X	X		
Split-System SS-1	X	X	X	X			X	X			X									X	X																			X	X	X		
Split-System SS-2	X	X	X	X			X	X			X									X	X																			X	X	X		
Split-System SS-3	X	X	X	X			X	X			X									X	X																		X	X	X			
Split-System SS-4	X	X	X	X			X	X			X									X	X																		X	X	X			
Split-System SS-5	X	X	X	X			X	X			X									X	X																		X	X	X			
Ventilation Fan				X				X																																				

TAG	CLEANING								MECHANICAL											CONTROLS																								
	Coils			Fan / heat wheel					Motor / belt / bearings					Damper operation / seals				Misc.		Actuators						Sensor operation / calibration						Seq. of Operations												
	Cooling Coil	Heating Coil	Condenser Coil	Supply Fan	Return Fan	Exhaust Fan	Condenser Fan(s)	Heat wheel	Supply Fan	Return Fan	Exhaust Fan	Condenser Fan	Heat wheel	Pump	SA Damper	OA damper	RA damper	EA damper	Mixing damper	Cooling (Dx Compressors)	Heating (Gas or Elect.)	Cooling Valve (Hydronic)	Heating Valve (Hydronic)	SA Damper	OA damper	RA damper	EA damper	Mixing damper	Cooling Valve (Hydronic)	Heating Valve (Hydronic)	Airflow	Duct Static	Differential Pressure	Supply Air Temp	Return Air Temp	Mixed Air Temp	Space Temperature	Fan Speed Modulation	Heat wheel operation	Pump Speed Modulation	Economizer operation	Occupied	Unoccupied	Setpoints
ECM #75 – FIELD KINDLEY TECHNICAL ACADEMY (FKTA)																																												
RTU #1	X	X	X	X			X		X		X				X	X	X		X	X				X	X								X		X	X	X			X	X	X	X	
RTU #2	X	X	X	X			X		X		X				X	X	X		X	X				X	X								X		X	X	X			X	X	X	X	
RTU #3	X	X	X	X			X		X		X				X	X	X		X	X				X	X								X		X	X	X			X	X	X	X	
Exhaust Fan EF-1						X				X																																		
Exhaust Fan EF-2						X				X																																		
Exhaust Fan EF-3						X				X																																		

TAG	CLEANING							MECHANICAL											CONTROLS																								
	Coils			Fan / heat wheel				Motor / belt / bearings					Damper operation / seals				Misc.		Actuators					Sensor operation / calibration					Seq. of Operations														
	Cooling Coil	Heating Coil	Condenser Coil	Supply Fan	Return Fan	Exhaust Fan	Condenser Fan(s)	Heat wheel	Supply Fan	Return Fan	Exhaust Fan	Condenser Fan	Heat wheel	Pump	SA Damper	OA damper	RA damper	EA damper	Mixing damper	Cooling (Dx Compressors)	Heating (Gas or Elect.)	Cooling Valve (Hydronic)	Heating Valve (Hydronic)	SA Damper	OA damper	RA damper	EA damper	Mixing damper	Cooling Valve (Hydronic)	Heating Valve (Hydronic)	Airflow	Duct Static	Differential Pressure	Supply Air Temp	Return Air Temp	Mixed Air Temp	Space Temperature	Fan Speed Modulation	Heat wheel operation	Pump Speed Modulation	Economizer operation	Occupied	Unoccupied
ECM #76 – BOARD OF EDUCATION OFFICE																																											
RTU BOE-1	X	X	X	X			X	X			X				X	X			X	X				X	X									X		X	X			X	X	X	
RTU BOE-2	X	X	X	X			X	X			X				X	X			X	X				X	X									X		X	X			X	X	X	
RTU BOE-3	X	X	X	X			X	X			X				X	X			X	X				X	X									X		X	X			X	X	X	
RTU BOE-4	X	X	X	X			X	X			X				X	X			X	X				X	X									X		X	X			X	X	X	
Exhaust Fan						X				X																																	
Exhaust Fan						X				X																																	