



Coffeyville Public Schools

Investment Grade Audit Report
Phase 1B (Non-ESSER)

November 14, 2023

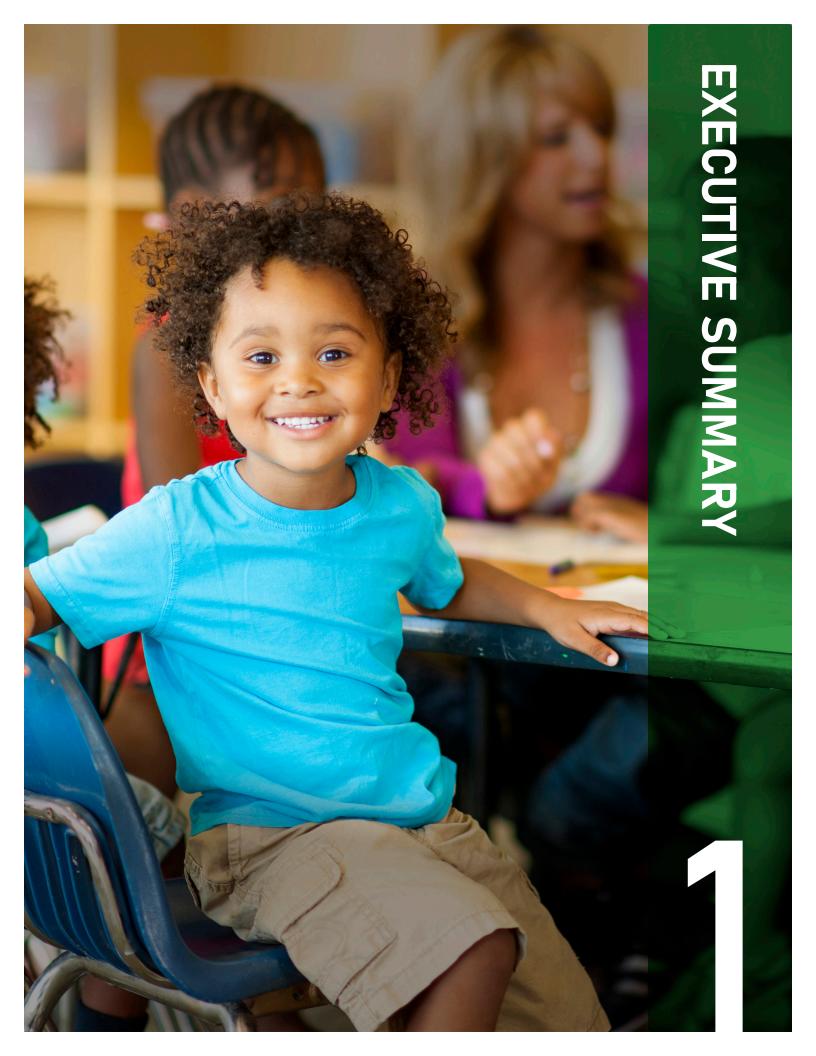
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Navitas has performed this audit for the Coffeyville Public Schools. The intent of this audit is to develop a plan that can be implemented to reduce operating costs, replace aging and unreliable equipment, and improve school district facilities. This 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 multicampus 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 Inflitration 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:

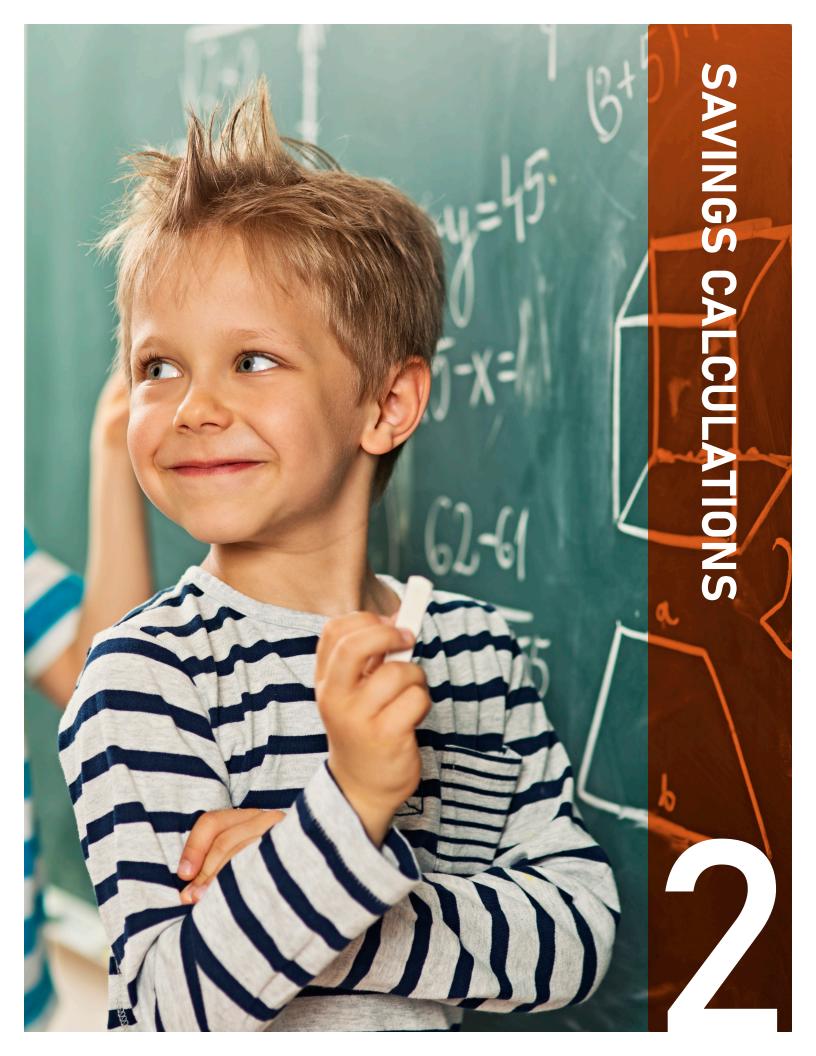
- Improved facility comfort.
- Improved equipment and systems.
- Reduced capital dollars needed to repair and replace aged equipment.

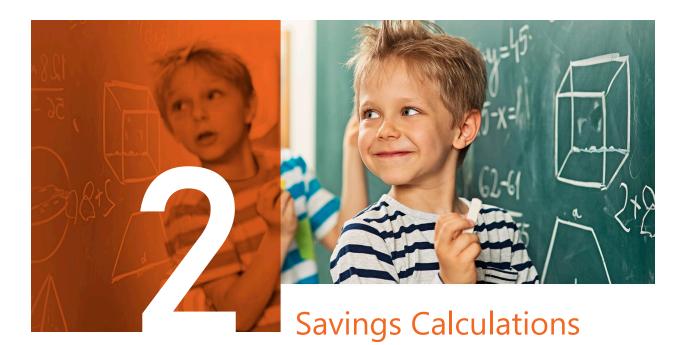
- Increased awareness of opportunities for energy savings.
- Improved technical knowledge and expertise to design and implement projects.
- Improved certainty that promised savings are achieved.
- Reduced operational costs.

### 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 lifelong learning opportunities by enhancing your facilities and providing the best learning environment to students as possible.







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:

### $R \times Q \times \%$ load / Effe – $R \times Q \times \%$ load / Effn

Where:

R= Run hours

Q = Total equipment capacity

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

Effe = existing equipment efficiency

Effn = 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.





# 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

			From UA	T kWhRev		Ex	isting			٨	lew		Savi	ngs	
ECM#	Location	Measure	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.





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Figure 3.2 Building Infiltration Improvements/Weatherization Savings Calculation

			Coc	oling Percen	t Threshold>	5%	Max 5% cooling e	energy from Re	evUA	
_			Hea	ting Percent	Threshold>	5%	Max 5% heating	energy from Re	evUA	
	Savings Fr	om BES Audit	A	djustments		Pr	ojected Savings			_
ECM# Buildings	Heating (Therms)	Cooling (kWh)	Heating (Therms)	Cooling (kWh)	Electric Heat (kWh)	Gas Heat Savings (Therms)	Summer Savings (kWh)	Winter Savings (kWh)	Total kWh Savings	
21 Field Kindley High School & Clinic	2,218	8,199	1,584	8,199	184	1,576	2,733	1,459	4,191.81	ĺ

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



	Calculation I	Parameters	INPUTS	Field Kindley High	School					OA Temp	% of Max Heating Load	VRF COP	OA Temp	% of Max Cooling Load
	Kansas City, MO	<b>T</b>		Building SqFt:	124.207			1		-2.5 & Below	100%	0.80	55	0%
	3,726	Maximum Heating	Load (MBtu/h)	Building Oqi t .	124,207			<- Note 3		2.5	93%	0.80	60	0%
4	0.0082	Humidity Ratio Se								7.5	86%	0.80	65	5%
	414	Maximum Cooling						<- Note 1		12.5	79%	0.80	70	19%
	0.86	Cooling Equipmen	nt Eff (kW/Ton)	[		Heating Source	)	<- Note 2		17.5	72%	0.80	75	32%
	0.8	Gas Heating Equi			Gas H	leat-MCF Gas	Heat-Therms	<- Note 4		22.5	65%	1.34	80	46%
	1.0 12,421	Electric Heating E Affected Occupied	Equipment Eff (CC	OP)	C Electric H	leat   Electric and	Gas-Therms Heat	4		27.5 32.5	58% 51%	1.88	85 90	59% 73%
	0%	% of VRF kWh	d Outside Air CFI	И				4		37.5	51% 44%	2.42 2.96	95	73% 86%
	Existing Con			7						42.5	37%	3.50	100 & Above	100%
<b>1</b>	74	Cooling Occupied	Setnoint (°F)							47.5	30%	3.50	100 & Above	100%
S	85	Cooling Un-Occup								47.0	3070	3.30	l	
	70	Heating Occupied	Setpoint (°F)											
	55	Heating Unoccupi	ied Setpoint (°F)				Notes/Comme	ents:	Ĭ					
	Yes	Is OA Shut Off W	hen Not Occupied	d?										
	Controls Sched									e story building in N				
	4	Monday through Hour of day syste								itary school and me ne RTUs with gas h				
	17.0	Hour of day syste								ncluded. Windows				
	17.0	Saturday:	in is turned Or i							persons/1000 squa				
	0	Hour of day syste	m is turned ON				man aroa. Ligino		ocupanoj nao 10 p	oroono rooo oqua				
	0.0	Hour of day syste	m is turned OFF				Calculation will be	e reasonably accur	ate for preliminary	calcs and CEA typ	e calcs where			
		Sunday:								MVP option C (Util				
	0	Hour of day syste					is used, Engineer	is advised to cons	ider modeling with	Carrier HAP or sir	nilar.			
	0.0	Hour of day syste	m is turned OFF											
				7						ım Cooling Load		ment		
	New Condition									versized and maxi				
	74 85	Cooling Occupied								e estimates of sq.f re not performed o				
_	70	Cooling Un-Occup Heating Occupied	ριεά Setpoint ( F) I Setpoint (°F)							eating and cooling				
0,	55	Heating Unoccupi	ied Setpoint (°F)							h up the the utility				
Coffeyville	Controls Sched	lule						edure should be u						
Š		Monday through							WRev. Building Sq	Ft. / 300 [SqFt./To	n]			
<u></u>	6	Hour of day syste					Note 2. From kWI		C-Ft + 20 (Dt./C-	Et 1 / 4000 [Dt-1				
Ф	17.0	Hour of day syste Saturday:	m is turned OFF					ting Load. Building Air CFM. Building S						% of Gas Heat
Ъ	0	Hour of day syste	m is turned ON					Heating kWh and T		All/Bullullig SqFt.				% of Gas Heat
<u>6</u>	0.0	Hour of day syste						g						
<u> </u>		Sunday:					Calibration		Ī					
S	0	Hour of day syste	m is turned ON				Exist. Heating kW	/h from UA		4,612	Note 5.			
χ̈́	0.0	Hour of day syste	m is turned OFF				Exist. Heating The	erms from UA		31,524				
8							Total Existing Hea	ating converted to	Therms	31,681				
S							Exist. Heating The	erms from calc.		31,681				
<u> </u>							Adjustment Facto	r		0.61543				
é							F : 1 0 F 114			****	1			
3. St							Exist. Cooling kW Exist Cooling kWI			418,947 418,947				
±: ₫							Adjustment Facto			2.56076				
tment . Field														
× ~								lized from Sch	edule Change					
Public Schools Investment Grade Audit 3. Field Kindley High	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	Total Usage Savings	
를 할	0	0	0	0	543	3,575	10,385	5,210	1,338	1,064	0	0	22,114	Cooling kWh
ey ey	65	55	52	29	0	0	0	0	0	0	46	58	306	Heating kWh
ΤĽ	446	377	354	197	0	0	0	0	0	0	318	399	2,091	Heating Therms
Audit y High		•	•				•	•	•	•	•			-
b t							Existir	ng Energy (Cali	brated)					
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	Total Usage	
Phase school	0	0	0	0	31,483	83,308	141,696	95,381	43,326	23,752	0	0	418,947	Cooling kWh
ol es	1,189	910	689	226	0	0	0	0	0	0	614	984	4,612	Heating kWh
	8,129	6,220	4,708	1,544	0	0	0	0	0	0	4,195	6,729	31,524	Heating Therms
_ w	0,123	0,220	4,100	1,344	J	- 3	U				7,133	O, I LJ	31,327	cuting memis
3 (Non Clinic,							Non	/ Energy (Calib	rated)					
는 약	JAN	FEB	MAR	APR I	MAY	JUN		AUG		ОСТ	NOV	DEC	Total Usage	1
, P		+					JUL 121 211		SEP				Total Usage	Cooling klath
, S.S.	1 124	0	0	0	30,940	79,734	131,311	90,172	41,988	22,688	0	0	396,833	Cooling kWh
ESSER) Page 5	1,124	855	637	197	0	0	0	0	0	0	567	926	4,306	Heating kWh
5 Z	7,683	5,842	4,354	1,347	0	0	0	0	0	0	3,877	6,329	29,433	Heating Therms



											۵/ ۲۰۰	1	T	
	Calculation F	Parameters	INPUTS	Field Kindley High	School - Clinic					OA Temp	% of Max Heating Load	VRF COP	OA Temp	% of Max Cooling Load
	Kansas City, MO	▼		Building SqFt:	1,872			1		-2.5 & Below	100%	0.80	55	0%
	56	Maximum Heating	g Load (MBtu/h)					<- Note 3		2.5	93%	0.80	60	0%
	0.0082	Humidity Ratio Se	etpoint (lb <sub>wat</sub> /lb <sub>air</sub> )							7.5	86%	0.80	65	5%
	6	Maximum Cooling						<- Note 1		12.5	79%	0.80	70	19%
	0.86	Cooling Equipme				Heating Source		<- Note 2		17.5	72%	0.80	75	32%
<	0.8	Gas Heating Equi			Gas H	_	Heat-Therms	<- Note 4		22.5	65%	1.34	80	46%
	1.0 187	Electric Heating E Affected Occupie	-quipment Επ (CC d Outside Air CEN	)P) 4	C Electric H	leat 🔘 Electric and	Gas-Therms Heat	3		27.5 32.5	58% 51%	1.88 2.42	85 90	59% 73%
	0%	% of VRF kWh	d Odiside All Of I	"				Ü		37.5	44%	2.42	95	86%
$\mathbf{O}$	Existing Con			7						42.5	37%	3.50	100 & Above	100%
	74	Cooling Occupied	Setpoint (°F)							47.5	30%	3.50		
S	85		pied Setpoint (°F)							B			4	
	70	Heating Occupied							•					
	55	Heating Unoccup					Notes/Commo	ents:						
	No Controls Sched	Is OA Shut Off W	hen Not Occupied	1?			This coloulation w	vas calibrated for a	EO OOO og ft single	aton, building in N	diocouri			
	Controls Scried	Monday through	Friday:					type in the calibrati						
	0	Hour of day syste						90.1. System type						
	24.0	Hour of day syste	m is turned OFF				constant volume	air distribution. No	economizer was i	ncluded. Windows	were 20% of			
ĺ		Saturday:					wall area. Lights	were 32 W T8. Oc	cupancy was 15 p	ersons/1000 squar	re feet.			
	0	Hour of day syste					L							
	24.0	Hour of day syste	em is turned OFF					e reasonably accur						
	0	Sunday: Hour of day syste	um is turned ON					ption D (Calibrated is advised to cons						
ŀ	24.0	Hour of day syste					is useu, Engineer	is advised to cons	ider modeling with	Carrier HAP OF SIL	IIIIai.			
ı	24.0	riour or day byoto	mino tarriod or r				Do not confuse M	laximum Heating	Load and Maximu	m Cooling Load	with installed equip	ment		
ı	New Condition	ons		7				(heating systems i		_				
ı	74	Cooling Occupied	d Setpoint (°F)					than installed capa						
l	85		pied Setpoint (°F)					ised to estimate loa						
$\mathcal{C}$	70 55	Heating Occupied						ng data is not availa						
<b></b>	Controls Sched	Heating Unoccupi	ied Setpoint ( F)					sting annual energy edure should be us			ananysis,			
ey		Monday through	Friday:					quipment. From kV			n]			
≦.	6	Hour of day syste	em is turned ON				Note 2. From kW	Rev.						
e	18.0	Hour of day syste	m is turned OFF					ting Load. Building						
P		Saturday:	i- t ON					Air CFM. Building S Heating Therms from		Air/Building SqFt.				% of Gas Heat 100.0%
<u></u>	6 18.0	Hour of day syste Hour of day syste					Note 5. Existing F	reating Therms Iron	III UA					100.0%
<u> </u>	10.0	Sunday:	ill is turried Or i				Calibration		Ī					
S	6	Hour of day syste	m is turned ON								Note 5.			
χI	18.0	Hour of day syste					Exist. Heating Th	erms from UA		593				
8							Total Existing He	ating Therms from	UA	593				
S							Exist. Heating Th			593				
ᄀ							Adjustment Facto	or		0.47967				
è							Exist. Cooling kW	/h from LIA		4.895	1			
3.							Exist Cooling kW	h from calc.		4,895				
ᇎᆴᅵ							Adjustment Facto	r		0.94365				
Coffeyville Public Schools Investment 3. Field							- ·							
조 의	IAN	FED	MAD	ADD	MAY	IIIN		lized from Sche		OCT	NOV	DEC	Tatal Hanna Cavings	
Grade Audit Kindley High	JAN	FEB	<b>MAR</b> 0	APR	<b>MAY</b> 89	JUN	JUL 631	<b>AUG</b> 371	<b>SEP</b> 137	OCT 72	<b>NOV</b> 0	DEC	Total Usage Savings	Cooling MA/h
늗	0	0		0		285				73		0	1,586 0	Cooling kWh
< ⊳	0	0	0	0	0	0	0	0	0	0	0	0		Heating kWh
Audit y High	43	36	32	15	0	0	0	0	0	0	31	39	196	Heating Therms
字 튜								_ ,						
– Phase School	15		1		MACO:			ng Energy (Calil			Nex	<b></b>	T = . 1	
을 위	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	Total Usage	
oc as	0	0	0	0	363	962	1,677	1,124	502	266	0	0	4,895	Cooling kWh
<u>~</u> ₽.	0												0	Heating kWh
& <sub>В</sub>	145	114	91	35	0	0	0	0	0	0	85	124	593	Heating Therms
(Non Clinic,								/ Energy (Calibr						
∵ ⊐	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	Total Usage	
Pa	0	0	0	0	274	677	1,046	753	365	193	0	0	3,309	Cooling kWh
ESSER) Page 6	0												0	Heating kWh
62	101	78	59	20	0	0	0	0	0	0	54	85	397	Heating Therms



_														
	Calculation F	Parameters	INPUTS	Field Kindley High	School - Pool					OA Temp	% of Max Heating Load	VRF COP	OA Temp	% of Max Cooling Load
	Kansas City, MO	▼		Building SqFt:	7,600			1		-2.5 & Below	100%	0.80	55	0%
	228	Maximum Heating	Load (MBtu/h)		1,000			<- Note 3		2.5	93%	0.80	60	0%
4	0.0082	Humidity Ratio Se	etpoint (lb <sub>wat</sub> /lb <sub>air</sub> )							7.5	86%	0.80	65	5%
	25	Maximum Cooling		_				<- Note 1		12.5	79%	0.80	70	19%
	0.86	Cooling Equipmer				Heating Source	1	<- Note 2		17.5	72%	0.80	75	32%
	0.8	Gas Heating Equi			Gas H	leat-MCF 🕒 Gas	Heat-Therms	<- Note 4		22.5	65%	1.34	80	46%
	1.0 760	Electric Heating E Affected Occupied	quipment Eff (CO	)P)	Electric I	leat 🔘 Electric and	Gas-Therms Heat	3		27.5 32.5	58% 51%	1.88	85 90	59% 73%
	0%	% of VRF kWh	Outside All Criv	1				3		37.5	44%	2.42 2.96	95	86%
	Existing Con			7						42.5	37%	3.50	100 & Above	100%
12	85	Cooling Occupied	Setnoint (°F)	1		l				47.5	30%	3.50	100 di Above	100 /0
S	85	Cooling Un-Occup								17.0	3070	0.00	a.	
	80	Heating Occupied	Setpoint (°F)						_					
	55	Heating Unoccupi	ed Setpoint (°F)				Notes/Commo	ents:						
	No	Is OA Shut Off W	hen Not Occupied	1?										
	Controls Sched									e story building in N				
	0	Monday through Hour of day syste								ntary school and me ne RTUs with gas h				
	24.0	Hour of day syste								included. Windows				
	24.0	Saturday:	in is turned Or i							persons/1000 squa				
	0	Hour of day syste	m is turned ON				wan arou. Ligino		oupano, nuo 10 p	oo.oo.io 1000 oqua	0.1001.			
	24.0	Hour of day syste	m is turned OFF				Calculation will be	reasonably accur	ate for preliminary	calcs and CEA typ	e calcs where			
		Sunday:								MVP option C (Util				
	0	Hour of day syste					is used, Engineer	is advised to cons	ider modeling with	Carrier HAP or sir	nilar.			
	24.0	Hour of day syste	m is turned OFF				L							
				7						um Cooling Load		ment		
	New Condition					Ī				versized and maxi				
	85 85	Cooling Occupied								e estimates of sq.f re not performed o				
_	80	Cooling Un-Occup Heating Occupied	Setnoint (°F)							eating and cooling				
0,	55	Heating Unoccupi	ed Setpoint (°F)							h up the the utility				
#.	Controls Sched						a calibration proc	edure should be us	ed to adjust calcu	lation.	-			
Š		Monday through							WRev. Building So	Ft. / 300 [SqFt./To	n]			
Coffeyville	0	Hour of day syste					Note 2. From kW		0 5: +00 (5: 10	E. 1 / 4000 FD. 1				
Ф	24.0	Hour of day syste Saturday:	m is turned OFF					ing Load. Building ir CFM. Building S						% of Gas Heat
Pu	0	Hour of day syste	m is turned ON					leating Therms fro		All/Bullullig SqFt.				% of Gas near
<u>b</u>	24.0	Hour of day syste					g.							
₽.		Sunday:					Calibration		Ī					
S	0	Hour of day syste	m is turned ON							0	Note 5.			
χ	24.0	Hour of day syste	m is turned OFF				Exist. Heating Th	erms from UA		13,143				
8						•'	Total Existing He	ating Therms from	UA	13,143				
S							Exist. Heating Th	erms from calc.		13,143				
<u> </u>							Adjustment Facto	r		2.67559				
<b>е</b>							F : 1 O F 114			37.039	1			
ast 3.							Exist. Cooling kW Exist Cooling kW			37,039				
±: ₫							Adjustment Factor			2.78475				
tment . Field														
Public Schools Investment Grade 3. Field Kindle								lized from Sch						
Grade Audit Kindley High	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	Total Usage Savings	
<u>ਰ</u> ਕੁੱ	0	0	0	0	0	0	0	0	0	0	0	0	0	Cooling kWh
ey	0	0	0	0	0	0	0	0	0	0	0	0	0	Heating kWh
ᄑᄼ	0	0	0	0	0	0	0	0	0	0	0	0	0	Heating Therms
Audit y High		•			J					•			-	-
ъ †							Existi	ng Energy (Cali	brated)					
– Phase School	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	Total Usage	
ha ho	0	0	0	0	1,758	7,148	15,589	9,367	2,043	1,133	0	0	37,039	Cooling kWh
ol es	0				.,	.,	,	-,	_,	.,			0	Heating kWh
& <u>+</u>	3,267	2,565	1,996	683	0	0	0	0	0	0	1,851	2,782	13,143	Heating Therms
_ w	3,201	2,303	1,330	003	<b>J</b>	3	U	9	U	U	1,051	LITUL	15,175	
B (Non Clinic,							Nave	Energy (Calib	rated)					
등 악	JAN	FEB	MAR	I APR I	MAY	JUN				ОСТ	NOV	DEC	Total Usess	1
, H							JUL 15.500	AUG	SEP		-	DEC	Total Usage	Cooling WAT
a S	0	0	0	0	1,758	7,148	15,589	9,367	2,043	1,133	0	0	37,039	Cooling kWh
ESSER) Page 7	0												0	Heating kWh
~ Z	3,267	2,565	1,996	683	0	0	0	0	0	0	1,851	2,782	13,143	Heating Therms

# 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



# 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

LED Lighting Retro-Fit (Option A)

Roosevelt Middle School

			From UA	T kWhRev		Ex	isting			1	New		Savii	ngs
ECM#	Location	Measure	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														

3.15

3.15

					kWh	Savings									
ECM#	Location	Measure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2	Recovet Middle School	LED Lighting Botro Eit (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	122 005

3.15

Sep

3.15

# 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

			Cod	oling Percen	t Threshold>	5%	Max 5% cooling 6	energy from Re	AUV
_			Hea	ting Percent	Threshold>	5%	Max 5% heating	energy from Re	evUA
	Savings Fr	om BES Audit	A	djustments		Pr	ojected Savings		
ECM# Buildings	Heating (Therms)	Cooling (kWh)	Heating (Therms)	Cooling (kWh)	Electric Heat (kWh)	Savings	Summer Savings (kWh)	Winter Savings (kWh)	Total kWh Savings
22 Roosevelt Middle School	493	182	493	182	-	493	121	61	182.20

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

Calaulatias B		INDUTO	December 1	0-1						% of Max			
Calculation Pa	arameters	INPUTS	Roosevelt Middle	ocnool					OA Temp	Heating Load	VRF COP	OA Temp	% of Max Cooling Load
Kansas City, MO	<b>T</b>		Building SqFt :	75,177			1		-2.5 & Below	100%	0.80	55	0%
	Maximum Heating	Load (MBtu/h)	5 ,	.,			<- Note 3		2.5	93%	0.80	60	0%
0.0082	Humidity Ratio Se	tpoint (lb <sub>wat</sub> /lb <sub>air</sub> )							7.5	86%	0.80	65	5%
251	Maximum Cooling	Load (tons)					<- Note 1		12.5	79%	0.80	70	19%
	Cooling Equipmer				Heating Source		<- Note 2		17.5	72%	0.80	75	32%
0.8 1.0	Gas Heating Equi Electric Heating E	oment Eff (AFUE)	D)	☐ Gas H		Heat-Therms	<- Note 4		22.5 27.5	65% 58%	1.34	80 85	46% 59%
7,518	Affected Occupied	quipment Επ (COI LOutside Δir CEM	Ρ)	C Electric H	eat Electric and	Gas-Therms Heat	3		32.5	58% 51%	1.88 2.42	90	59% 73%
	% of VRF kWh	Outside All Of W					Ü		37.5	44%	2.42	95	86%
Existing Cond			1						42.5	37%	3.50	100 & Above	100%
	Cooling Occupied	Setpoint (°F)							47.5	30%	3.50	100 07 0010	10070
85	Cooling Un-Occup	oied Setpoint (°F)										•	
	Heating Occupied												
	Heating Unoccupi					Notes/Comme	ents:	l					
	Is OA Shut Off WI	nen Not Occupied	?			This sale is a		F0 000 - " : :		*:			
Controls Schedu	ule Monday through	Eriday:							e story building in M stary school and me				
	Hour of day system								ne RTUs with gas h				
	Hour of day system								ncluded. Windows				
	Saturday:								persons/1000 squar				
	Hour of day syster	m is turned ON				ĺ							
0.0	Hour of day syster	m is turned OFF							calcs and CEA typ				
	Sunday:								MVP option C (Utili				
	Hour of day system					is used, Engineer	is advised to cons	der modeling with	Carrier HAP or sin	nilar.			
0.0	Hour of day syster	n is turned OFF				Do not confuce M	avimum Haatina l	l oad and Mavim	ım Cooling Load	with installed savin	ment		
Now Condition			1				_		-		ment		
New Condition	Cooling Occupied	Satnaint (°E)							versized and maxir e estimates of sq.ft				
	Cooling Un-Occupied								e estimates of sq.ft re not performed of				
70	Heating Occupied	Setpoint (°F)				historical operatin	g data is not availa	able. If installed he	eating and cooling I	loads are			
55	Heating Unoccupi					used and the exis	ting annual energy	use doesn't match	h up the the utility a				
Controls Schedu		Palda					edure should be us			-1			
	Monday through Hour of day system					Note 1. Cooling E Note 2. From kWI		vicev. Building Sq	Ft. / 300 [SqFt./Tor	nj			
	Hour of day system						ing Load. Building	SaFt. * 30 (Btu/Sa	Ft.1 / 1000 [Btu]				
	Saturday:						ir CFM. Building S						% of Gas Heat
	Hour of day system	m is turned ON				Note 5. Existing H	leating Therms from	m UA	.0 - 1. "				100.0%
	Hour of day syster												
	Sunday:					Calibration		<u>i</u> _			•		
	Hour of day system									Note 5.			
0.0	Hour of day syster	m is turned OFF				Exist. Heating The			16,119				
							ating Therms from	UA	16,119				
						Exist. Heating The			16,119				
						Adjustment Factor	r		0.50180				
						Exist. Cooling kW	h from UA		167,142	1			
						Exist Cooling kWh	h from calc.		167,142	ĺ			
						Adjustment Factor	r		1.77123				
						Cavings D	lizad from Cala	adula Channe					
JAN	FEB	MAD	ADD	MAY	JUN	JUL JUL	lized from Sche		ОСТ	NOV	DEC	Total Heart Court	r
		MAR	APR	MAY			AUG	SEP		NOV		Total Usage Savings	CU LAMb
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
							ng Energy (Calil						
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	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	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 (Calibr	ated)					
									0.07	NOV	DEC		
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NUV	DEC	Total Usage	
JAN 0	FEB 0	MAR 0	<b>APR</b> 0					_		0	0	Total Usage 160,190	Cooling kWh
0				MAY 12,215	JUN 32,185	53,111	36,244	17,091	9,344			160,190	
								_					Cooling kWh Heating kWh 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

# 5.1. 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

			From UA	T kWhRev		Ex	isting			ı	New		Savii	ngs
ECM#	Location	Measure	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	lan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sen	Oct	Nov	Dec

					kWh	Savings									
ECM#	Location	Measure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
-	Community Flomentary School	LED Lighting Retro Eit (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	106 010

# 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

			Cod	oling Percent	t Threshold>	5%	Max 5% cooling e	energy from Re	PVUA
_			Hea	ting Percent	Threshold>	5%	Max 5% heating 6	energy from Re	evUA
	Savings Fr	om BES Audit	А	djustments		Pr	ojected Savings		
ECM# Buildings	Heating (Therms)	Cooling (kWh)	Heating (Therms)	Cooling (kWh)	Electric Heat (kWh)	Gas Heat Savings (Therms)	Summer Savings (kWh)	Winter Savings (kWh)	Total kWh Savings
23 Community Elementary School	1,936	5,369	739	5,369	509	722	3,579	2,299	5,878.38

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



Calculation Pa	arameters	INPUTS	Community Eleme	entary School					OA Temp	% of Max Heating Load	VRF COP	OA Temp	% of Max Cooling Lo
Kansas City, MO	▼		Building SqFt:	149,400			1		-2.5 & Below	100%	0.80	55	0%
	Maximum Heatin		J 1				<- Note 3		2.5	93%	0.80	60	0%
	Humidity Ratio S								7.5	86%	0.80	65	5%
	Maximum Cooling			r			<- Note 1		12.5	79% 72%	0.80	70	19% 32%
	Cooling Equipme	nt Err (kw/10n) ipment Eff (AFUE)	1	◯ Gas He	Heating Source	s Heat-Therms	<- Note 2 <- Note 4		17.5 22.5	65%	0.80 1.34	75 80	32% 46%
		equipment Eff (CO		_	eat C Electric and		<= NOTE 4		27.5	58%	1.88	85	59%
14,940	Affected Occupie	d Outside Air CFM	1	O Electric He	eat C Electric and	Gas-Therms Heat	3		32.5	51%	2.42	90	73%
	% of VRF kWh		7						37.5	44%	2.96	95	86%
Existing Cond	Cooling Occupied	1 C - 4 i - 4 (%E)	l						42.5 47.5	37% 30%	3.50 3.50	100 & Above	100%
		pied Setpoint (°F)							47.5	30%	3.50	_	
68	Heating Occupied	Setpoint (°F)						-					
	Heating Unoccup					Notes/Commo	ents:						
Yes Controls Schedul		hen Not Occupied	1?			This soleulation u	use colibrated for a	EO OOO oa ft sinale	e story building in Missouri.				
	Monday through	Friday:							tary school and met, but di				
	Hour of day syste								ne RTUs with gas heat and				
	Hour of day syste	m is turned OFF							ncluded. Windows were 2	0% of			
	Saturday:	m is turn! Oh!				wall area. Lights	were 32 W T8. O	ccupancy was 15 p	persons/1000 square feet.				
	Hour of day syste Hour of day syste					Calculation will be	e reasonably accur	ate for preliminary	calcs and CEA type calcs	where			
	Sunday:	an is turried OFF							MVP option C (Utility Bill G				
	Hour of day syste	m is turned ON							Carrier HAP or similar.	,			
	Hour of day syste					_		-					
N. 0 ""			7						um Cooling Load with inst				
New Condition		Cotnoint (°E)	l						versized and maximum loa				
	Cooling Occupied	pied Setpoint (°F)							e estimates of sq.ft./ton and re not performed or actual	u			
70	Heating Occupied	Setpoint (°F)				historical operating	ng data is not availa	ble. If installed he	eating and cooling loads are				
	Heating Unoccup	ied Setpoint (°F)							h up the the utility analysis,				
Controls Schedul	ile Monday through	Friday:					edure should be us		lation. Ft. / 300 [SqFt./Ton]				
	Hour of day syste					Note 2. From kW		Triot. Dallallig Oq					
	Hour of day syste	m is turned OFF					ting Load. Building						
	Saturday: Hour of day syste	MO be an un ei an					Air CFM. Building S Heating Therms fro		Air/Building SqFt.				% of Ga
	Hour of day syste					Note J. Existing I	leading Therms no	III OA					
	Sunday:					Calibration							
	Hour of day syste									Note 5.			
0.0	Hour of day syste	m is turned OFF				Exist. Heating Th			14,437				
1							ating Therms from	UA	14,437				
l						Exist. Heating Th			14,437				
ı						Adjustment Facto	OT .		0.29335				
						Exist. Cooling kW			419,818				
						Exist Cooling kW			419,818				
i						Adjustment Facto	Л		2.20174				
	ı		ı			Saving	gs Realized fro	n Schedule Ch	ange I		ı	1	I
10.51	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	<b>Total Usage Savings</b>	
JAN	0	0	0	3,823	9,065	16,004	10,084	5,763	3,584	0	0	48,324	Cooling kWh
0		0	0	0	0	0	0	0	0	0	0	0	Heating kWh
0	0	168	88	0	0	0	0	0	0	140	205	1,050	Heating Therms
0	0 197							(2.11)					
0							Existing Energy			Nev	D=4	Table	
0 0 252	197		1 455	BACY .				SEP	ОСТ	NOV	DEC	Total Usage	
0 0 252 JAN	197 FEB	MAR	APR	MAY	JUN	JUL	AUG				•		Carlina I M
0 0 252 JAN 0	197	<b>MAR</b> 0	<b>APR</b> 0	MAY 32,203	<b>JUN</b> 84,239	JUL 139,757	95,368	44,169	24,082	0	0	419,818	Cooling kWh
0 0 252 JAN 0 0	197 <b>FEB</b> 0	0	0	32,203	84,239	139,757	95,368	44,169	24,082			419,818 0	Heating kWh
0 0 252 JAN 0	197 FEB									1,975	3,053	419,818	
0 0 252 JAN 0 0	197 <b>FEB</b> 0	0	0	32,203	84,239	139,757	95,368	44,169 0	24,082			419,818 0	Heating kWh
0 0 252 JAN 0 0	197 <b>FEB</b> 0	0	0	32,203	84,239	139,757	95,368	44,169 0	24,082			419,818 0	Heating kWh
0 0 252 JAN 0 0 3,635	197 FEB 0 2,808	2,185	780	32,203	84,239	139,757 0	95,368 0 New Energy	44,169 0 (Calibrated)	24,082	1,975	3,053	419,818 0 14,437	Heating kWh
0 0 252 JAN 0 0 3,635	197  FEB  0  2,808	0 2,185 MAR	780 APR	32,203 0 MAY	84,239 0 JUN	139,757	95,368 0 New Energy	44,169 0 (Calibrated) SEP	0 OCT	1,975 NOV	3,053	419,818 0 14,437	Heating kWh Heating Therms

# 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

								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								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



### 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

			From UA	T kWhRev		Exi	sting			N	lew		Savi	ngs
ECM#	Location	Measure	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 S	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

			Cod	oling Percen	t Threshold>	5%	Max 5% cooling 6	energy from Re	evUA
_			Hea	ting Percent	Threshold>	5%	Max 5% heating	energy from Re	evUA
	Savings Fr	om BES Audit	A		Pr	ojected Savings			
ECM# Buildings	Heating (Therms)	Cooling (kWh)	Heating (Therms)	Cooling (kWh)	Electric Heat (kWh)	Gas Heat Savings (Therms)	Summer Savings (kWh)	Winter Savings (kWh)	Total kWh Savings
24 JH Early Childhood Center	1,590	520	2,900	601	499	1,933	1,568	3,501.05	

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



	-						1			% of Max		T	
Calculation Parame	ters	INPUTS	JH Early Childhoo	d Center					OA Temp	Heating Load	VRF COP	OA Temp	% of Max Cooling Loa
Kansas City, MO ▼			Building SqFt:	34,812					-2.5 & Below	100%	0.80	55	0%
	ım Heating	Load (MBtu/h)		- 1,012			<- Note 3		2.5	93%	0.80	60	0%
		etpoint (lb <sub>wat</sub> /lb <sub>air</sub> )							7.5	86%	0.80	65	5%
		Load (tons)					<- Note 1		12.5	79%	0.80	70	19%
		nt Eff (kW/Ton)			Heating Source		<- Note 2		17.5	72%	0.80	75	32%
		pment Eff (AFUE)		☐ Gas I	Heat-MCF Gas	Heat-Therms	<- Note 4		22.5	65%	1.34	80	46%
		quipment Eff (COI d Outside Air CFM		○ Electric	Heat 📵 Electric and	Gas-Therms Heat	4		27.5 32.5	58% 51%	1.88 2.42	85 90	59% 73%
	RF kWh	Outside All Cl W							37.5	44%	2.42	95	86%
Existing Conditions			1						42.5	37%	3.50	100 & Above	100%
		Setpoint (°F)			1				47.5	30%	3.50	100 di Above	10070
		pied Setpoint (°F)								0070	0.00	l	
67 Heating	Occupied	Setpoint (°F) (											
55 Heating	Unoccupi	ed Setpoint (°F)				Notes/Comme	ents:						
	Shut Off Wh	hen Not Occupied	?										
Controls Schedule									story building in N				
	y through	m is turned ON							tary school and me ne RTUs with gas h				
		m is turned OFF							ncluded. Windows				
Saturd		III IS TUITIEU OFF							ersons/1000 squar				
		m is turned ON				wan area. Ligitis	02 VV 10. UC	oupunty was 10 p	orgonia, rooo aqual	J 1001.			
		m is turned OFF				Calculation will be	reasonably accura	ate for preliminary	calcs and CEA typ	e calcs where			
Sunda									MVP option C (Util				
0 Hour of	day syster	m is turned ON							Carrier HAP or sir				
0.0 Hour of	day syster	m is turned OFF				L							
			<u></u>							with installed equip	ment		
New Conditions									versized and maxir				
		Setpoint (°F)							e estimates of sq.fl				
		oied Setpoint (°F)							re not performed o				
		Setpoint (°F) ed Setpoint (°F)				nistorical operatin	g data is not avalla ting annual energy	ible. Il installed ne	eating and cooling I h up the the utility a	oads are			
Controls Schedule	, Oriocoupi	ca octpolit ( 1 )				a calibration proce	edure should be us	ed to adjust calcu	ation.	anarysis,			
	y through	Friday:							Ft. / 300 [SqFt./To	n]			
	day syster	m is turned ON				Note 2. From kWI							
19.0 Hour of	day syster	m is turned OFF					ing Load. Building						
Saturd							ir CFM. Building S		Air/Building SqFt.				% of Gas Heat
		m is turned ON				Note 5. Existing F	leating kWh and Ti	nerms from UA					96.2%
		m is turned OFF				Calibration							
Sunda						Calibration			44.500	N s	ì		
		m is turned ON m is turned OFF				Exist. Heating kW Exist. Heating The			11,583 9.982	Note 5.			
0.0 Hour or	uay syster	III is turried Of I				-	ating converted to	Thormo	10,377				
						Exist. Heating The	•	Hemis					
						Adjustment Facto			10,377 0.65971				
						Aujustinetit Facto			0.03971				
						Exist. Cooling kW	h from UA		52,396				
						Exist Cooling kWI	n from calc.		52,396				
						Adjustment Facto	r		0.98392				
						Savings Pea	lized from Sche	dule Change					
JAN I	EB	MAR	APR	MAY	JUN	JUL JUL	AUG	SEP	ост	NOV	DEC	Total Usage Savings	
0	0	0	0	526	1,272	2,385	1,477	782	472	0	0	6,915	Cooling kWh
												374	
	66	67	45	0	0	0	0	0	0	48	64		Heating kWh
71	57	58	39	0	0	0	0	0	0	42	55	322	Heating Therms
							ng Energy (Calil						
JAN I	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	Total Usage	
0	0	0	0	4,173	10,528	17,177	11,937	5,631	2,950	0	0	52,396	Cooling kWh
2,979 2	,289	1,723	546	0	0	0	0	0	0	1,567	2,479	11,583	Heating kWh
2,567 1	,973	1,485	470	0	0	0	0	0	0	1,351	2,137	9,982	Heating Therms
						New	Energy (Calibr	ated)					
JAN I	EB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	Total Usage	
	0	0	0	3,648	9,256	14,792	10,460	4.849	2,477	0	0	45,481	Cooling kWh
	,223	1,656	501	0	0	0	0	0	0	1,519	2,415	11,209	Heating kWh
	,223	1,427	432	0	0	0	0	0	0	1,319	2,413	9,660	
2,490	סוכ,	1,427	432	U	U	U	U	U	U	1,309	2,082	9,000	Heating Therms

# 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

								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							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



### 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

			From UA	T kWhRev		Exi	sting			1	lew		Savir	ngs
ECM#	Location	Measure	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 S	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

				Cod	oling Percent	t Threshold>	5%	Max 5% cooling 6	energy from Re	evUA	
	_			Hea	ting Percent	Threshold>	5%	Max 5% heating	energy from Re	evUA	
		Savings Fr	om BES Audit	A	djustments		Pr	ojected Savings			
E	ECM# Buildings	Heating (Therms)	Cooling (kWh)	Heating (Therms)	Cooling (kWh)	Electric Heat (kWh)	Savings	Summer Savings (kWh)	Winter Savings (kWh)	Total kWh Savings	
	25 Field Kindley Technical Academy (FKTA)	397	1,237	153	781	138	148	521	398	918.55	1

			Electric Heating	Gas Heating RevUA	Percentage	Heating	Cooling	BES Percent of	BES Percent Of	Adjusted	Adjusted
E	ECM#	Buildings	RevUA (kWh)	(therms)	Electric	RevUA	RevUA	Heating	Cooling	Percent of	Pecent of
Γ	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

			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	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Total								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



### 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

			From UA	T kWhRev		Existing				N	lew		Savi	ngs
ECM#	Location	Measure	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

			Cod	oling Percent	Threshold>	5%	Max 5% cooling 6	energy from Re	PVUA
_			Hea	ting Percent	Threshold>	5%	Max 5% heating	energy from Re	evUA
	Savings From BES Audit Adjustments			Pr	ojected Savings				
ECM# Buildings	Heating (Therms)	Cooling (kWh)	Heating (Therms)	Cooling (kWh)	Electric Heat (kWh)	Gas Heat Savings (Therms)	Summer Savings (kWh)	Winter Savings (kWh)	Total kWh Savings
26 Board of Education Office	401	1,362	82	1,362	670	59	908	1,124	2,032.02

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

Calculation I	Parameters	INPUTS	Board of Education	n Office		
Kansas City, MO	▼		Building SqFt :	6,278		
188	Maximum Heating			•	•	
0.0082	Humidity Ratio Se	tpoint (lb <sub>wat</sub> /lb <sub>air</sub> )				
21	Maximum Cooling					
0.86	Cooling Equipmer				Heating Source	
0.8	Gas Heating Equi			◯ Gas I	Heat-MCF Gas	Heat-Therms
1.0		quipment Eff (COF	?)	○ Electric	Heat	Gas-Therms Heat
628	% of VRF kWh	d Outside Air CFM				
0% Existing Cor		1	i			
		0 1 1 (05)			1	
73	Cooling Occupied					
80 69	Cooling Un-Occup Heating Occupied					
60						Notes/Com
Yes	Heating Unoccupi					Notes/Con
controls Sched		nen Not Occupied				This calculation
controls Sched	Monday through	Friday:				The building u
7	Hour of day system					exceed, ASHF
16.5	Hour of day system					constant volur
10.0	Saturday:	ii io tairiou Oi i				wall area. Lig
0	Hour of day syster	m is turned ON				wall area. Eig
0.0	Hour of day system					Calculation wi
0.0	Sunday:	ii io tairiou Oi i				M&V is IPMVF
0	Hour of day syster	m is turned ON				is used, Engin
0.0	Hour of day system					,g
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				4	Do not confus
New Conditi	ons					capacities. Of
74	Cooling Occupied	Setpoint (°F)			1	considerably le
85	Cooling Un-Occup					Btu/hr/sf can b
70	Heating Occupied	Setpoint (°F)				historical oper
55	Heating Unoccupi	ed Setpoint (°F)				used and the
Controls Sched						a calibration p
	Monday through					Note 1. Coolin
7	Hour of day system					Note 2. From
16.5	Hour of day system	m is turned OFF				Note 3. Max F
	Saturday:					Note 4. Outsid
0	Hour of day syster					Note 5. Existin
0.0	Hour of day syster	m is turned OFF				O-lib4'
	Sunday:					Calibration
0	Hour of day syster					Exist. Heating
0.0	Hour of day syster	m is turned OFF			ı	Exist. Heating
						Total Existing
						Exist. Heating
						Adjustment Fa

OA Temp	% of Max Heating Load	VRF COP	OA Temp	% of Max Cooling Load
-2.5 & Below	100%	0.80	55	0%
2.5	93%	0.80	60	0%
7.5	86%	0.80	65	5%
12.5	79%	0.80	70	19%
17.5	72%	0.80	75	32%
22.5	65%	1.34	80	46%
27.5	58%	1.88	85	59%
32.5	51%	2.42	90	73%
37.5	44%	2.96	95	86%
42.5	37%	3.50	100 & Above	100%
47.5	30%	3.50		

#### Notes/Comments:

- Note 3 Note 1 <- Note 2 Note 4

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 Blu/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 instantial operating dual is not available. It installed nearing 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 kWh and Therms from UA

% of Gas Hea

Calibration		
Exist. Heating kWh from UA	13,405	Note 5.
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 Re	ealized from Sc	hedule Change	1				
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	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

						Exis	ting Energy (Ca	librated)					
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	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

						Ne	ew Energy (Cali	brated)					
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

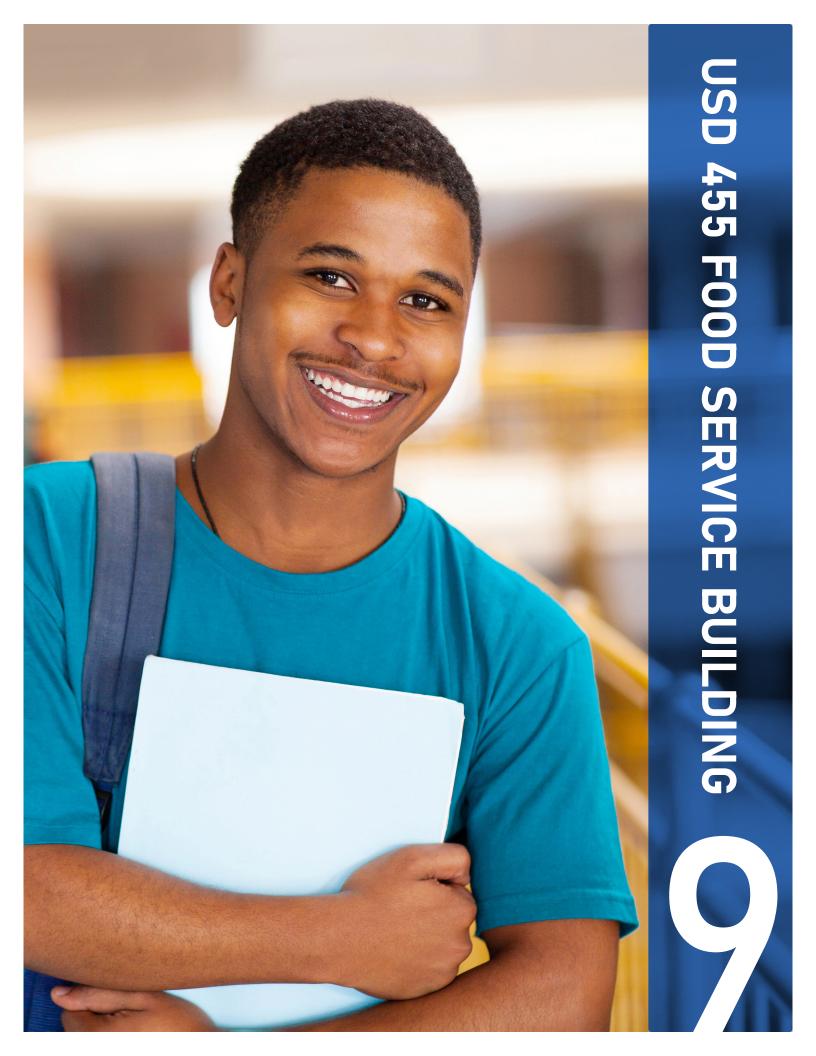
Refer to Figure 8.3 for the Optimization Services / Data Analytics Savings Calculation.





								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						
ECN	M# BUILDING	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
80	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



### 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

			From UA	T kWhRev		Ex	sting			1	lew		Savi	ngs
ECM#	Location	Measure	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 S	avings									
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 S	avings									
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

			Cod	oling Percent	t Threshold>	5%	Max 5% cooling e	nergy from Re	evUA
_			Hea	ting Percent	Threshold>	5%	Max 5% heating	energy from Re	evUA
	Savings Fr	om BES Audit	Α	djustments		Pr	ojected Savings		
ECM# Buildings	Heating (Therms)	Cooling (kWh)	Heating (Therms)	Cooling (kWh)	Electric Heat (kWh)	Savings	Summer Savings (kWh)	Winter Savings (kWh)	Total kWh Savings
27 USD 445 Food Service Building	717	2,234	126	2,234	-	126	1,489	745	2,234.22

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

Calculation P	Parameters	INPUTS	USD 455 Food Se	ervice Building - Din	ing Room				OA Temp	% of Max Heating Load	VRF COP	OA Temp	% of Max Cooling Loa
Kansas City, MO	▼		Building SqFt:	4,500			1		-2.5 & Below	100%	0.80	55	0%
135	Maximum Heating	Load (MBtu/h)		1,000			<- Note 3		2.5	93%	0.80	60	0%
0.0082	Humidity Ratio Se								7.5	86%	0.80	65	5%
15	Maximum Cooling						<- Note 1		12.5	79%	0.80	70	19%
0.86	Cooling Equipmen				Heating Sourc	e	<- Note 2		17.5	72%	0.80	75	32%
0.8	Gas Heating Equi			( ) Gas H	eat-MCF ( ) Ga	as Heat-Therms	<- Note 4		22.5	65%	1.34	80	46%
1.0	Electric Heating E			( ) Flectric H	_	nd Gas-Therms Heat			27.5	58%	1.88	85	59%
450	Affected Occupied	Outside Air CFM		<u> </u>	out O Electric dis	id das memis neat	3		32.5	51%	2.42	90	73%
0%	% of VRF kWh		-						37.5	44%	2.96	95	86%
Existing Con-									42.5	37%	3.50	100 & Above	100%
73	Cooling Occupied								47.5	30%	3.50		-
81 68	Cooling Un-Occup												
	Heating Occupied							Ī					
61	Heating Unoccupi					Notes/Comm	ents:						
Yes	Is OA Shut Off WI	nen Not Occupied?	?			This sale day	!: 4! *	E0 000 # · · ·		#:::			
Controls Sched	ule Monday through	Eriday:					vas calibrated for a type in the calibrati						
4.5	Hour of day system						type in the calibrati E 90.1. System typ						
15.0	Hour of day system						air distribution. No						
13.0	Saturday:	ii is turried Of F					were 32 W T8. Or						
0	Hour of day system	m is turned ON				wan area. Ligitis	WOIG 02 W 10. UC	oupditoy was 10	ocisonisi rooo squal	io iodi.			
0.0	Hour of day system					Calculation will be	e reasonably accur	ate for preliminary	calcs and CEA tur	ne calcs where			
0.0	Sunday:	c turricu Or I					ption D (Calibrated						
0	Hour of day syste	m is turned ON					r is advised to cons						
0.0	Hour of day system					io dood, Eriginool	10 0011000 10 00110	dor modeling with		··········			
						Do not confuse N	laximum Heating	Load and Maxim	um Cooling Load	with installed equip	ment		
New Condition	ons		1			canacities Often	(heating systems	n narticular) are c	versized and maxis	mum load is			
74	Cooling Occupied	Setpoint (°F)		1			than installed capa						
85	Cooling Un-Occup						used to estimate loa						
70	Heating Occupied					historical operatir	ng data is not availa	ble. If installed he	eating and cooling l	loads are			
55	Heating Unoccupi	ed Setpoint (°F)					sting annual energy			analysis,			
Controls Sched							edure should be us						
	Monday through						quipment. From k\	VRev. Building So	pft. / 300 [SqFt./To	n]			
5	Hour of day syste					Note 2. From kW							
15.0	Hour of day syste	m is turned OFF					ting Load. Building						
0	Saturday:	:- 4 d ON					Air CFM. Building S		Air/Building SqFt.				% of Gas H
	Hour of day syste					Note 5. Existing i	Heating Therms fro	TI UA					100
0.0	Hour of day system	n is turned OFF				Calibration		Ī					
	Sunday:	:- t Ot'				Campration				N-4- F	Ī		
0.0	Hour of day system Hour of day system					Exist. Heating Th	ormo from LIA		0 1,522	Note 5.			
0.0	Hour or day system	n is turned OFF											
							ating Therms from	UA	1,522				
						Exist. Heating Th			1,522				
						Adjustment Factor	or		0.73196				
						Exist. Cooling kW	/h from LIA		36.269	1			
						Exist Cooling kW			36,269				
						Adjustment Factor			6.91677				
							lized from Sch	dule Change		L. C.			
JAN	FEB	MAR	APR	MAY	JUN	JUL JUL	AUG	SEP	ОСТ	NOV	DEC	Total Usage Savings	1
		0 0											G 11 13411
			0	412	1,135	2,910	1,561	374	207	0	0	6,600	Cooling kWh
0	0												
	0 0 25	0 22	0 8	0	0	0	0	0	0	0 24	0 29	0 137	Heating kWh

					edule Change	lizea from Sch	Savings Rea						
	Total Usage Savings	DEC	NOV	OCT	SEP	AUG	JUL	JUN	MAY	APR	MAR	FEB	JAN
Cooling kWh	6,600	0	0	207	374	1,561	2,910	1,135	412	0	0	0	0
Heating kWh	0	0	0	0	0	0	0	0	0	0	0	0	0
Heating Therms	137	29	24	0	0	0	0	0	0	8	22	25	29

					brated)	ng Energy (Cali	Existin						
	Total Usage	DEC	NOV	ОСТ	SEP	AUG	JUL	JUN	MAY	APR	MAR	FEB	JAN
Cooling kWh	36,269	0	0	1,713	3,131	8,435	13,728	6,963	2,299	0	0	0	0
Heating kWh	0												0
Heating Therms	1,522	325	207	0	0	0	0	0	0	73	229	300	388

						New	Energy (Calibr	ated)					
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total Usage	
0	0	0	0	1,887	5,828	10,817	6,873	2,757	1,507	0	0	29,669	Cooling kWh
0												0	Heating kWh
358	275	207	65	0	0	0	0	0	0	183	296	1,385	Heating Therms

Calculation	Parameters	INPUTS	USD 455 Food Se	ervice Building - Kitchen	
Kansas City, MO	▼		Building SqFt :	6,078	_
182	Maximum Heating	Load (MBtu/h)			
0.0082	Humidity Ratio Se	etpoint (lb <sub>wat</sub> /lb <sub>air</sub> )			
20	Maximum Cooling	g Load (tons)			
0.86	Cooling Equipmer	nt Eff (kW/Ton)		Heating Source	)
0.8		ipment Eff (AFUE)		☐ Gas Heat-MCF	s H
1.0		quipment Eff (COI		☐ Electric Heat ☐ Electric and	l Ga
608		d Outside Air CFM			
0%	% of VRF kWh		7		
Existing Cor					
73	Cooling Occupied				
77 65	Cooling Un-Occup	pied Setpoint (°F)			
		,			
60	Heating Unoccupi		_		Ľ
Yes		hen Not Occupied	?		L
Controls Sched	uie Monday through	Eridou			Ļ
4.5	Hour of day syste				
15.0	Hour of day syste				_
15.0	Saturday:	III IS LUITIEU OFF			Ľ
0	Hour of day syste	m is turned ON			ľ
0.0	Hour of day syste				_
0.0	Sunday:	iii is turrieu Or r			
0	Hour of day syste	m is turned ON			is
0.0	Hour of day syste				ľ
0.0	riour or day syste	in is turned or i			c
New Conditi	ons		]		С
74	Cooling Occupied				С
85		pied Setpoint (°F)			Е
70	Heating Occupied				h
55	Heating Unoccupi	ied Setpoint (°F)			u
Controls Sched		Eridou			8
5	Monday through Hour of day syste				1
15.0	Hour of day syste				
15.0	Saturday:	III IS LUITIED OFF			1
0	Hour of day syste	m is turned ON			,
0.0	Hour of day syste				•
0.0	Sunday:	III IS LUITIEU OFF			7
0		m is turned ON			F
0.0	Hour of day syste Hour of day syste				Ļ
0.0	noul of day syste	III IS LUITIED OFF			Ľ
					ľ
					- 1-

	OA Temp	% of Max Heating Load	VRF COP	OA Temp	% of Max Cooling Load
Γ	-2.5 & Below	100%	0.80	55	0%
	2.5	93%	0.80	60	0%
Г	7.5	86%	0.80	65	5%
ı	12.5	79%	0.80	70	19%
Γ	17.5	72%	0.80	75	32%
	22.5	65%	1.34	80	46%
	27.5	58%	1.88	85	59%
	32.5	51%	2.42	90	73%
	37.5	44%	2.96	95	86%
	42.5	37%	3.50	100 & Above	100%
	47.5	30%	3.50		

#### Notes/Comments:

Gas Heat-Therms

C Electric and Gas-Therms Heat

- Note 3 - Note 1

- Note 2

- Note 4

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

#### Calibration

Note 5. Exist. Heating Therms from UA 997 Total Existing Heating Therms from UA 997 Exist. Heating Therms from calc. 997 Adjustment Factor 0.40035 Exist. Cooling kWh from UA Exist Cooling kWh from calc. 13,097 Adjustment Factor 1.52298

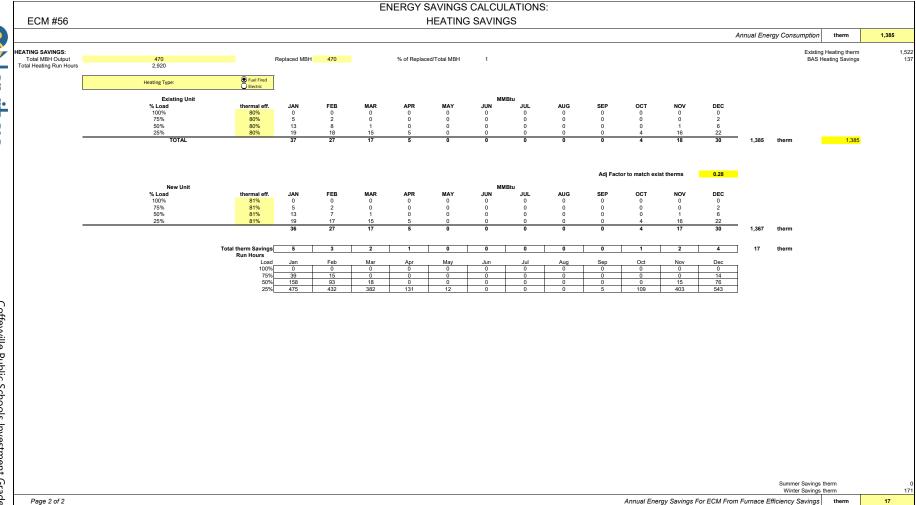
						Savings Real	ized from Sche	edule Change					
JAN													
0	0	0	0	282	746	1,938	1,047	258	136	0	0	4,407	Cooling kWh
0	0	0	0	0	0	0	0	0	0	0	0	0	Heating kWh
2	1	0	-2	0	0	0	0	0	0	1	2	4	Heating Therms

					brated)	ng Energy (Cali	Existir						
	Total Usage	DEC	NOV	ОСТ	SEP	AUG	JUL	JUN	MAY	APR	MAR	FEB	JAN
Cooling kWh	13,097	0	0	591	1,093	3,040	5,041	2,483	850	0	0	0	0
Heating kWh	0												0
Heating Therms	997	212	138	0	0	0	0	0	0	50	151	195	250

						New	/ Energy (Calibr	rated)					
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total Usage	
0	0	0	0	568	1,737	3,103	1,993	834	454	0	0	8,690	Cooling kWh
0												0	Heating kWh
249	194	152	52	0	0	0	0	0	0	136	210	993	Heating Therms

													TC	OTAL ANNU	JAL ENER	GY SAVINGS	kWh kW Therm	5,276 32 17
ECM #56					MECHAN	NICAL CO	OOLING									Total Wint Total Sumr	er Savings kWh er Savings kWh ner Savings kW nter Savings kW	
												ANNUA	L ENERGY (	CONSUMPTIO	ON EXISTIN	IG EQUIPMENT	kWh kW	45,640 233
CHANCAL REFRIGERATION S																	ng Cooling kWh	3
Total Tons of Cooling otal Cooling Run Hours	<b>30.0</b> 3,997	F	Replaced Tons	30.0		% of Replaced	d/Total Tons	1								BAS Coolir Exis	Ventilation kWh ng kWh Savings ting Cooling kW g Ventilation kW	
	Existing Unit kW Peak % Load							KV	'Н									
	% 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% 25%	1.11 1.00	0	0	92 439	451 1,063	1,312 1,853	3,260 1,571	4,244 1,054	3,711 1,382	1,937 1,650	482 1,174	21 328	0				
	TOTAL	1.00	0	0	531	1,514	3,182	5,270	7,012	6,313	3,824	1,673	349	0	29,669	kWh	29,669	
												or to match ex		0.61		avg. kW		
		Monthly peak kW:	-	-	12.21	12.21	20.11	20.11	29.22	29.22	20.11	20.11	12.21	-	175.5	kW	175.5	
	New Unit kW Peak % Load							ки			•	tor to match ex		0.73				
	<b>% Load</b> 100%	KW/Ton	JAN 0	FEB 0	MAR 0	APR 0	MAY	JUN 0	JUL 199	AUG 99	SEP	OCT 0	<b>NOV</b> 0	DEC 0				
	75%	1.00	0	0	0	0	14	358	1,198	895	193	14	0	0				
	50%	0.91	0	Ö	76	370	1,077	2,675	3.483	3.045	1.590	395	17	Ö				
	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		kWh avg. kW		
	Monthly Peak kW	Total kWh Savings Total kW Savings	0	0	10.02 92 2	10.02 265 2	16.40 559 4	938 4	23.69 1,261 6	23.69 1,131 6	16.40 677 4	16.40 293 4	10.02 60 2	0	143.0 5,276 32	kW kWh kw		
		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				
			0	0	9	0 44	1 128	26 318	87 414	65 362	14 189	1 47	0	0				
		75%		0	95	230	128 401	318	228	299	189 357	254	71	0	+			
		50%	0			230	401	340	220		331	234	/ 1	U	]			
		50% 25%	0	0											-			
		50% 25% BIN	0 0	0	0	0	KANS	SAS CITY MO V	EATHER BIN D	ATA 1	0	0	0	0	]			
	100%	50% 25%	0 0	0 0	0	0	0 0	SAS CITY MO V 0 0	EATHER BIN D 3 7	1 4	0	0	0	0				
		50% 25% BIN 105/109 100/104 95/99	0 0 0	0 0 0	0	0	0 0 0	0 0 3	3 7 22	1 4 18	2	0	0	0				
	100% 75%	50% 25% BIN 105/109 100/104 95/99 90/94	0 0 0	0 0 0	0	0	0 0 0 1	0 0 3 23	3 7 22 65	1 4 18 47	2	0	0	0 0				
	75%	50% 25% BIN 105/109 100/104 95/99 90/94 85/89	0 0 0 0	0 0 0 0	0 0	0 0 4	0 0 0 1 10	0 0 3 23 66	3 7 22 65 116	1 4 18 47 86	12 31	0 1 4	0 0	0 0 0 0				
		50% 25% BIN 105/109 100/104 95/99 90/94	0 0 0	0 0 0	0	0 0 4 11 29	0 0 0 1	0 0 3 23	3 7 22 65 116 143 155	1 4 18 47 86 126 150	2 12 31 65 93	0 1 4 13 30	0	0 0				
	75% 50%	50% 525% BIN 105/109 100/104 95/99 90/94 85/89 80/84 75/79 70/74	0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 2 7	0 0 4 11 29 51	0 0 0 1 10 39 79 112	0 0 3 23 66 113 139 150	3 7 22 65 116 143 155 137	1 4 18 47 86 126 150 160	2 12 31 65 93 119	0 1 4 13 30 57	0 0 0 0 1 1 7	0 0 0 0 0 0				
	75%	50% 25% BIN 105/109 100/104 95/99 90/94 85/89 80/84 75/79 70/74 65/69	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 2 7 16 32	0 0 4 11 29 51 76	0 0 0 1 10 39 79 112 146	0 0 3 23 66 113 139 150	3 7 22 65 116 143 155 137 64	1 4 18 47 86 126 150 160 96	2 12 31 65 93 119 123	0 1 4 13 30 57 86	0 0 0 1 1 7 22	0 0 0 0 0 0 0				
	75% 50%	50% 25% BIN 105/109 100/104 95/99 90/94 85/99 80/84 75/79 70/74 65/99 80/64	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 2 6	0 0 0 0 2 7 16 32 47	0 0 4 11 29 51 76	0 0 0 1 10 39 79 112 146 143	0 0 3 23 66 113 139 150 121 69	3 7 22 65 116 143 155 137	1 4 18 47 86 126 150 160 96 43	2 12 31 65 93 119 123 115	0 1 4 13 30 57 86	0 0 0 1 1 7 22 42	0 0 0 0 0 0 0 0 0 3				
	75% 50%	50% 25% BIN 105/109 100/104 95/99 90/94 85/89 80/84 75/79 70/74 65/69	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 2 7 16 32	0 0 4 11 29 51 76	0 0 0 1 10 39 79 112 146	0 0 3 23 66 113 139 150	3 7 22 65 116 143 155 137 64 27	1 4 18 47 86 126 150 160 96	2 12 31 65 93 119 123	0 1 4 13 30 57 86	0 0 0 1 1 7 22	0 0 0 0 0 0 0				
	75% 50% 25%	50% 25% BIN 105/109 100/104 95/99 90/94 85/99 80/84 75/79 70/74 65/99 60/64 55/59 50/54	0 0 0 0 0 0 0 0 0 0 1 1 3 12 21 34	0 0 0 0 0 0 0 0 0 2 6 6 15 25 39	0 0 0 0 2 7 16 32 47 66 77	0 0 4 11 29 51 76 103 112 108 95	0 0 0 1 10 39 79 112 146 143 105 66 31	0 0 3 23 66 113 139 150 121 69 28 7	3 7 22 65 116 143 155 137 64 27 5 0	1 4 18 47 86 126 150 160 96 43 11 2	2 12 31 65 93 119 123 115 82 51 21	0 1 4 13 30 57 86 111 119 115 99	0 0 0 0 1 1 7 22 42 62 77 91	0 0 0 0 0 0 0 0 0 3 13 15 29				
	75% 50% 25%	50% 25% BIN 105/109 100/104 95/59 90/94 85/69 80/84 75/79 70/74 65/69 60/64 55/59 40/44	0 0 0 0 0 0 0 0 0 0 1 1 3 12 21 34 68	0 0 0 0 0 0 0 0 0 2 6 6 15 25 39 44	0 0 0 2 7 16 32 47 66 77 97	0 0 4 111 29 51 76 103 112 108 95 68	0 0 0 1 1 10 39 79 112 146 143 105 66 31	0 0 3 23 66 113 139 150 121 69 28 7	3 7 22 65 116 143 155 137 64 27 5 0	1 4 18 47 86 126 150 160 96 43 111 2 0	2 12 31 65 93 119 123 115 82 51 21 4	0 1 4 13 30 57 86 111 119 115 99 62	0 0 0 1 1 1 7 22 42 62 77 91	0 0 0 0 0 0 0 0 0 3 13 15 29 51				
	75% 50% 25% Economizer	50% 25% BIN 105/109 100/104 95/59 90/94 85/69 80/84 75/79 70/74 66/69 60/64 55/59 50/54 40/44 35/39	0 0 0 0 0 0 0 0 0 0 1 1 3 12 21 34 68 92	0 0 0 0 0 0 0 0 0 0 2 2 6 15 25 39 44 76	0 0 0 2 7 16 32 47 66 77 97	0 0 4 111 29 51 76 103 112 108 95 68 38	0 0 0 1 1 10 39 79 112 146 143 105 66 31 11	0 0 3 23 66 113 139 150 121 69 28 7 2 0	3 7 22 65 116 143 155 137 64 27 5 0 0	1 4 18 47 86 126 150 160 96 43 11 2	2 12 31 65 93 119 123 115 82 51 21 4	0 1 4 13 30 57 86 111 119 115 99	0 0 0 1 1 1 7 22 42 62 77 91 113 122	0 0 0 0 0 0 0 0 0 0 0 0 0 3 13 15 29 51 78				
	75% 50% 25%	50% 25% BIN 105/109 100/104 95/59 80/84 85/69 80/84 75/79 70/74 65/69 60/64 45/5/9 30/34 40/44 35/5/9 30/34 25/5/9	0 0 0 0 0 0 0 0 0 1 1 3 12 21 34 68 92 127 105	0 0 0 0 0 0 0 0 0 0 2 6 6 15 25 39 44 76 97	0 0 0 2 7 16 32 47 66 77 97 107 96 96	0 0 4 111 29 51 76 103 112 108 95 68	0 0 0 1 1 10 39 79 112 146 143 105 66 31 11 1 0	0 0 3 23 66 113 139 150 121 69 28 7 2 0 0	3 7 22 65 116 143 155 137 64 27 5 0 0 0	1 4 4 18 47 86 126 150 96 43 11 2 0 0 0 0 0 0 0	2 12 31 65 93 119 123 115 82 51 21 4 1 0	0 1 1 4 13 30 57 86 111 119 115 99 62 36 9	0 0 0 1 1 1 7 22 42 62 77 91 113 122 90	0 0 0 0 0 0 0 0 0 3 3 13 15 29 51 78 125 161				
	75% 50% 25% Economizer	50% 25% BIN 105/109 100/104 95/99 90/94 85/99 80/94 75/79 65/99 60/04 55/59 40/04 35/39 30/34 25/29 20/24	0 0 0 0 0 0 0 0 0 0 1 1 3 12 21 34 68 92 127 105 83	0 0 0 0 0 0 0 0 0 2 2 6 15 25 39 44 76 97 107 88	0 0 0 2 2 7 16 32 47 66 77 107 96 96 54 29	0 0 4 111 29 51 76 103 112 108 95 68 38 18 5	0 0 0 1 10 39 79 112 146 143 105 66 31 11 1 0	0 0 3 23 66 1113 139 150 121 28 7 2 2 0 0	3 7 7 22 65 65 116 143 155 137 64 27 5 0 0 0 0 0 0 0 0 0 0 0 0 0	1 4 18 47 86 126 150 96 43 111 2 0 0 0 0 0 0 0 0 0 0 0	2 12 31 65 93 119 123 115 82 21 4 1 0	0 1 4 13 30 57 86 111 119 115 99 62 36 9	0 0 0 1 1 1 7 22 42 62 77 91 113 122 90 53	0 0 0 0 0 0 0 0 0 3 3 13 15 29 51 78 125 161 109				
	75% 50% 25% Economizer 25% Heat	50% 25% BIN 105/109 100/104 95/59 90/94 85/69 85/69 70/74 65/69 60/64 95/59 100/64 95/59 20/64 15/5/9 20/24 15/5/9	0 0 0 0 0 0 0 0 0 0 1 3 12 21 34 68 92 127 105 83 65	0 0 0 0 0 0 0 0 0 2 6 5 25 25 39 44 76 97 107 88 64	0 0 0 2 7 16 32 47 66 77 97 107 96 96 54 29	0 0 4 111 29 51 76 103 112 108 95 68 38 18 5	0 0 0 1 1 10 39 79 112 146 143 105 66 31 11 1 0 0	0 0 3 23 66 113 139 150 121 69 28 7 2 0 0	3 7 22 65 116 143 155 137 64 27 5 0 0 0 0	1 4 4 18 47 86 126 150 96 43 11 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 12 31 65 93 119 123 115 82 51 21 4 1 0 0	0 1 4 13 30 57 86 111 119 115 99 62 36 9	0 0 0 1 1 7 22 42 62 77 91 113 122 90 53 25	0 0 0 0 0 0 0 0 0 3 13 15 29 51 78 125 125 109 70				
	75% 50% 25% Economizer	50% 25% BIN 105/109 100/104 95/99 90/94 85/99 80/94 75/79 70/74 65/99 60/04 55/59 40/04 35/39 30/34 25/29 20/24 15/19	0 0 0 0 0 0 0 0 0 0 0 1 1 3 3 12 21 21 34 68 92 127 105 105 105 105 105 105 105 105 105 105	0 0 0 0 0 0 0 0 0 0 2 6 15 25 39 44 76 97 107 88 64 45 33	0 0 0 2 7 16 32 47 66 77 97 107 96 96 96 54 29 12	0 0 4 111 29 51 76 103 112 108 95 68 38 18 5 2 0	0 0 1 1 10 39 79 112 146 143 105 66 31 11 1 0 0	0 0 3 23 66 1113 139 150 121 69 28 7 7 2 0 0	3 7 7 22 65 65 116 143 155 137 64 27 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 4 4 18 47 86 126 150 96 43 111 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 12 31 65 93 119 123 115 82 51 21 4 1 0 0	0 1 4 13 30 57 86 111 119 115 99 62 36 9 2	0 0 0 1 1 1 7 22 42 62 77 91 113 122 90 53 25 9	0 0 0 0 0 0 0 0 3 13 15 29 51 78 161 109 70 41				
	75% 50% 25% Economizer 25% Heat	50% 25% BIN 105/109 100/104 95/99 90/94 85/99 80/94 85/99 70/74 65/99 60/94 40/44 45/49 40/44 55/59 20/24 15/19 10/14 5/9	0 0 0 0 0 0 0 0 0 0 1 1 3 1 2 1 2 1 2 1 3 4 8 8 9 9 2 1 1 0 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0 0 0 0 0 0 0 0 0 2 6 5 25 25 39 44 76 97 107 88 64	0 0 0 2 7 16 32 47 66 77 97 107 96 96 54 29	0 0 4 111 29 51 76 103 112 108 95 68 38 18 5	0 0 0 1 1 10 39 79 112 146 143 105 66 31 11 1 0 0	0 0 3 23 66 113 139 150 121 69 28 7 2 0 0	3 7 22 65 116 143 155 137 64 27 5 0 0 0 0	1 4 4 18 47 86 126 150 96 43 11 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 12 31 65 93 119 123 115 82 51 21 4 1 0 0	0 1 4 13 30 57 86 111 119 115 99 62 36 9	0 0 0 1 1 7 22 42 62 77 91 113 122 90 53 25	0 0 0 0 0 0 0 0 0 3 13 15 29 51 78 125 125 109 70				
	75% 50% 25% Economizer 25% Heat	50% 25% BIN 105/109 100/104 95/99 90/94 85/99 80/94 75/79 70/74 65/99 60/04 55/59 40/04 35/39 30/34 25/29 20/24 15/19	0 0 0 0 0 0 0 0 0 0 0 1 1 3 3 12 21 21 34 68 92 127 105 105 105 105 105 105 105 105 105 105	0 0 0 0 0 0 0 0 0 0 2 6 15 25 39 44 76 97 107 88 84 44 53 33 34 54 54 54 54 54 54 54 54 54 54 54 54 54	0 0 0 0 2 7 16 32 47 66 77 97 107 96 96 54 29 12 3	0 0 4 111 29 51 76 103 112 108 95 68 38 18 5 2 0 0	0 0 0 1 10 39 79 112 146 143 105 66 31 11 1 0 0	0 0 3 3 23 66 113 139 150 121 69 28 7 2 0 0 0 0	3 7 7 22 65 65 116 143 155 137 64 27 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 4 18 47 86 126 150 160 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 12 31 65 93 119 123 115 82 51 21 4 1 0 0	0 1 4 13 30 57 86 111 119 115 99 62 36 9 2 0 0	0 0 0 1 1 7 22 42 62 77 91 113 122 90 53 25 9	0 0 0 0 0 0 0 0 3 13 15 29 51 78 125 161 109 70 41 22				
	75% 50% 25% Economizer 25% Heat 50% Heat	50% 25% BIN 105/109 100/104 95/59 90/94 85/59 80/84 75/79 70/74 65/69 60/64 55/59 40/44 35/39 30/34 25/29 20/24 15/19 0/4 5/5/-1 10/-6	0 0 0 0 0 0 0 0 0 0 1 1 3 12 21 21 34 68 89 92 127 105 55 11 42 23 10 10 10 10	0 0 0 0 0 0 0 0 0 0 2 6 15 25 39 44 76 97 107 88 84 44 53 33 34 54 54 54 54 54 54 54 54 54 54 54 54 54	0 0 0 0 2 7 16 32 47 66 77 107 96 96 96 94 29 12 3 3 3 0 0	0 0 0 4 111 29 51 76 103 112 108 95 68 38 18 5 2 0 0 0	0 0 0 0 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1	0 0 0 3 3 666 1113 139 150 121 28 7 2 2 0 0 0 0 0 0	3 7 7 22 22 25 65 116 143 155 157 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 4 4 18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	2 12 31 65 93 119 123 115 82 51 21 4 1 0 0 0 0 0	0 1 1 4 13 30 57 86 1111 1119 115 99 62 2 36 9 2 0 0	0 0 0 1 1 7 7 22 42 62 77 91 113 122 90 2 5 3 2 5 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
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	75% 50% 25% Economizer 25% Heat 50% Heat	50% 25%  BIN 105/109 100/104 95/59 90/94 85/89 80/84 75/79 70/74 65/69 50/64 45/44 45/44 45/49 30/54 25/59 20/54 15/79 10/14 5/9 0/4 -5/-1 -10/-6	0 0 0 0 0 0 0 0 0 0 1 1 3 12 21 21 12 12 12 12 10 5 8 6 5 5 5 5 10 10 10 10 10 10 10 10 10 10 10 10 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 5 39 44 47 76 97 107 107 88 64 45 33 15 15 9 10 10 10 10 10 10 10 10 10 10 10 10 10	0 0 0 2 7 16 32 47 96 97 107 96 96 96 54 29 12 3 3 0 0	0 0 0 4 4 111 29 151 161 161 161 161 161 161 161 161 161	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 7 7 22 2 6 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1	2 12 12 31 65 93 119 115 82 51 21 4 1 0 0 0 0 0	0 1 1 4 13 30 57 86 1111 1115 99 92 2 2 0 0 0 0	0 0 0 1 1 1 7 22 42 42 62 77 91 1113 122 90 53 25 9 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Summer Savings Winter Savings Summer Savings Winter Savings	KWh KWh KW	

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# 9.5. ECM #87 – Optimization Services / Data Analytics

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

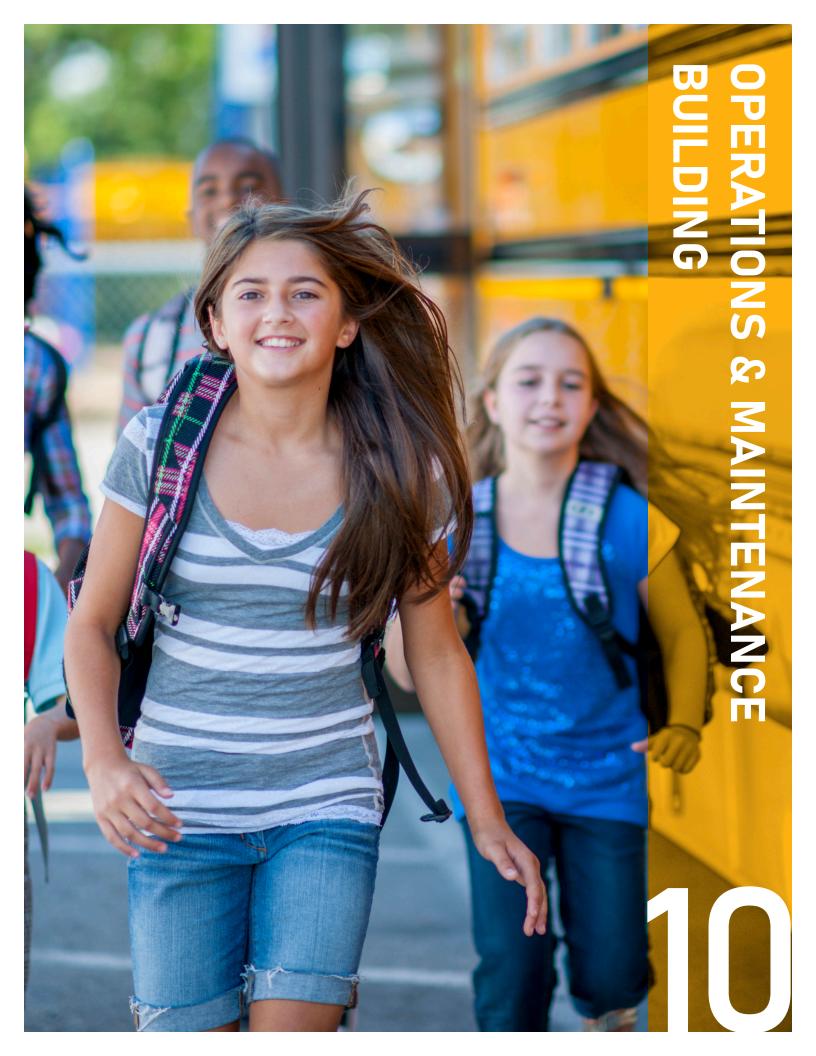




#### Figure 9.3 Optimization Services / Data Analytics Savings Calculation

								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



# 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

			From UA	T kWhRev		Ex	isting			1	lew		Savi	ngs
ECM#	Location	Measure	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 S	avings									
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						
ECN	# 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



	Location		Existing Fixt		Innut	Proposed Fi		Innut		kW	
Building	Floor	Room	Fixture	Quantity	Input Wattage	ECM	Quantity	Input Wattage	Pre	Post	Sa
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	т
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	Ι
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	┸
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	$\perp$
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	╀
Board of Education Office  Board of Education Office	1st floor 1st floor	Hallway	2x2 Flat Panel Rec LED 39W Dim 2x2 Flat Panel Rec LED 39W Dim	5 2	39 39	No Action - Existing Efficient/LED Fixture	5	39 39	0.2	0.2	+
Board of Education Office	1st floor	Breakroom Alcove Restroom (Private)	2x2 Flat Panel Rec LED 39W DIM 2x2 Flat Panel Rec LED 39W	1	39	No Action - Existing Efficient/LED Fixture No Action - Existing Efficient/LED Fixture	1	39	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	t
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	t
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	t
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	t
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	Τ
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	Ι
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	ļ
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	+
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	+
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 LED 9W A19 Replacement	2	21	0.1	0.0	+
Board of Education Office  Board of Education Office	1st floor 1st floor	Vestibule Hallway	10" Rec Sq. LED 9W A 2x2 Flat Panel Rec LED 39W Dim	7	9 39	No Action - Existing Efficient/LED Fixture	7	10 39	0.0	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	t
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	0.0	t
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	t
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	t
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	Τ
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	Ţ
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	┸
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	+
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	+
Board of Education Office	1st floor	Private Office	2X4 Prism Rec 3L 32W T8 DS	2	90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 4I	2	32	0.2	0.1	+
Board of Education Office  Board of Education Office	1st floor 1st floor	Copy Room	2X4 Prism Rec 4L 32W T8 2X4 Prism Rec 4L 32W T8	4	112	RT, 4' 10.5W DE LED 4L RT, 4' 10.5W DE LED 4L	4	42	0.4	0.2	+
Board of Education Office  Board of Education Office	1st floor 1st floor	Storage - Tech Private Office	2X4 Prism Rec 4L 32W 18 2X4 Prism Rec 4L 32W T8	2	112	RT, 4' 10.5W DE LED 4L RT, 4' 10.5W DE LED 4L	2	42	0.4	0.2	+
Board of Education Office	1st floor	File Storage	4' Wrap BP 2L 32W T8	2	59	RT. 4' 10.5W DE LED 4L	2	21	0.1	0.0	$^{+}$
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	$^{\dagger}$
Board of Education Office	1st floor	IT Work Shop - Closet	2x2 Prism Rec 2L 32W U6 T8	1	59	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	1	14	0.1	0.0	j
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	Τ
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	Ι
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	ļ
Board of Education Office	1st floor	Janitor Closet	Globe LED 9W A	1	9	LED 9W A19 Replacement	1	10	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	+
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	╀
Board of Education Office  Board of Education Office	1st floor 1st floor	Restroom - Men (Private) Restroom - Men (Private)	2x2 Flat Panel Rec LED 39W Vanity LED 9W A	1	39 9	No Action - Existing Efficient/LED Fixture LED 9W A19 Replacement	1	39 10	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	+
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	$^{+}$
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	t
Board of Education Office	Exterior	Flag	Existing LED Fixture	1	0	No Action - Existing Efficient/LED Fixture	1	0	0.0	0.0	T
Board of Education Office	Exterior	Flag	Flood LED 17W PAR38	1	17	LED 13W PAR38 Replacement	1	13	0.0	0.0	Т
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	
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	╀
Community Elementary School	1st floor	Main Entrance Vestibule	Asymetric Uplight CMH 150W T6	4	169	Flood LED 5.4 kLm YK	4	42	0.7	0.2	╀
Community Elementary School	1st floor	Lobby	Low Bay CFL 42W 4P	1 10	48 7	RT, LED 8W 2P G24D/Q Omni	1	8	0.0	0.0	╀
Community Elementary School	1st floor 1st floor	Lobby - Desk	Track Head LED 7W MR16 Asymetric Uplight CMH 150W T6	10	169	LED 6W MR16 Replacement Flood LED 5.4 kLm YK	10	6 42	1.0	0.1	+
Community Elementary School	1st floor	Lobby Hallway Section 1	8' Direct/Indirect T5HO 4L	4	234	RT, 4' 25W DE LED T5HO 4L	4	100	0.9	0.3	+
Community Elementary School	1st floor	Hallway Section 1	8' Direct/Indirect T5HO 4L	4	234	RT. 4' 25W DE LED TSHO 4L	4	100	0.9	0.4	$^{+}$
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	$^{\dagger}$
Community Elementary School	1st floor	Vestibule South by 006	8' Direct/Indirect T5HO 4L	1	234	RT, 4' 25W DE LED T5HO 4L	1	100	0.2	0.1	Τ
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	Ι
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	
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	ļ
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	+
Community Elementary School	1st floor	Lobby	2X4 Prism Rec 3L 32W T8	2	89 89	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	+
Community Elementary School	1st floor	Nurse Office Nurse - Beds	2X4 Prism Rec 3L 32W T8 6" Rec Can LED 17W PAR38	5	17	,	5	32 13	0.4	0.2	╁
Community Elementary School Community Elementary School	1st floor 1st floor	Nurse - Beds Nurse - Exam	2X4 Prism Rec 3L 32W T8	2	89	LED 13W PAR38 Replacement RT, 4' 10.5W DE LED 3L	2	32	0.1	0.1	+
Community Elementary School	1st floor	Nurse - Restroom (Private)	2X4 Prism Rec 3L 32W T8  2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L	1	21	0.2	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	$\dagger$
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	Ι
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	I
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	ľ
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	+
ommunity 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	+
Community Elementary School	1st floor 1st floor	Private Office - 003 Private Office - 002	2X4 Prism Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8	3	89 89	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	3	32 32	0.3	0.1	+
ommunity Elementary School ommunity Elementary School	1st floor 1st floor	Hallway Section 2	8' Direct/Indirect T5HO 4L	6	234	RT, 4' 10.5W DE LED 3L RT, 4' 25W DE LED T5HO 4L	6	100	1.4	0.1	+
ommunity Elementary School	1st floor	Hallway Section 2	8' Direct/Indirect T5HO 4L	6	234	RT, 4' 25W DE LED T5HO 4L	6	100	1.4	0.6	+
ommunity 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	$^{\dagger}$
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	$^{\dagger}$
Community Elementary School	1st floor	Lecture	2X4 Prism Rec 3L 32W T8 DS Master/Satell		90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	j
ommunity 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	I
ommunity 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	ľ
ommunity 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	Ŧ
ommunity Elementary School	1st floor	Entrance	2X2 Par Rec 3L T8	9	47	RT, 2' 7W DE LED 3L	9	21	0.4	0.2	+
ommunity Elementary School	1st floor	Entrance	2X2 Par Rec 3L T8	1	47	RT, 2' 7W DE LED 3L	1 22	21	0.0	0.0	+
ommunity Elementary School	1st floor	Up Lights	8' Industrial BP 4L 32W T8	32	112 59	RT, 4' 10.5W DE LED 4L	32	42	3.6	1.3	+
ommunity Elementary School ommunity Elementary School	1st floor 1st floor	Up Lights Library	4' Industrial BP 2L 32W T8 4' Wall Bracket BP 2L 32W T8	18	59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 1L	18	21 11	0.5	0.4	+
ommunity Elementary School	1st floor	OT Room - 12604	2X4 Prism Rec 3L 32W T8 DS Master/Satell		90	RT, 4' 10.5W DE LED IL RT, 4' 10.5W DE LED 3L	12	32	1.1	0.1	+
ommunity Elementary School	1st floor	OT Room - 12604	2X4 Prism Rec 3L 32W T8 D5 Waster/Satell	1	90	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	$^{\dagger}$
ommunity 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	$\dagger$
ommunity Elementary School	1st floor	Desk	Track Head Hal 50W MR16	8	60	LED 6W MR16 Replacement	8	6	0.5	0.0	$\uparrow$
ommunity Elementary School	1st floor	Open Area	2X4 Par Rec 3L 32W T8 DS Master/Satellite		90	RT, 4' 10.5W DE LED 3L	14	32	1.3	0.4	İ
ommunity Elementary School	1st floor	Open Area	2X4 Par Rec 3L 32W T8 DS	1	90	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	T
ommunity Elementary School	1st floor	Open Area	2X4 Par Rec 3L 32W T8 DS	1	90	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	Ι
ommunity Elementary School	1st floor	Conference Room - 12610	2X4 Prism Rec 3L 32W T8	4	89	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	I
Community Elementary School	1st floor	Private Office - 12603	2X4 Prism Rec 3L 32W T8 DS	2	90	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	T
ommunity Elementary School	1st floor	IT Closet	2X4 Prism Rec 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	Ţ
ommunity Elementary School	1st floor	Shelving	2X4 Prism Rec 3L 32W T8 DS Master/Satell		90	RT, 4' 10.5W DE LED 3L	6	32	0.5	0.2	Ţ
ommunity Elementary School	1st floor	Shelving	2X4 Prism Rec 3L 32W T8 DS	1	90	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	+
Community Elementary School	1st floor	Shelving	2X4 Prism Rec 3L 32W T8 DS	1	90	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	+
	1st floor	Classroom - 12602- Art	2X4 Prism Rec 3L 32W T8 DS Master/Satell	li 14	90	RT, 4' 10.5W DE LED 3L	14	32	1.3	0.4	
Community Elementary School	1st floor	Classroom - 12602- Art	2X4 Prism Rec 3L 32W T8 DS	1	90	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	T



	Location		Existing Fixt	ure		Proposed Fix	ture			kW	
Building	Floor	Room	Fixture	Quantity	Input	ECM	Quantity	Input	Pre	Post	Sav
Community Elementary School	1st floor	Hallway at Steps	8' Direct/Indirect T5HO 4L	6	Wattage 234	RT, 4' 25W DE LED T5HO 4L	6	Wattage 100	1.4	0.6	0
Community Elementary School	1st floor	Hallway at Steps	4' Direct/Indirect T5HO 4L	2	234	RT, 4' 25W DE LED 15HO 4L RT, 4' 25W DE LED 15HO 4L	2	100	0.5	0.8	0
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
Community Elementary School Community Elementary School	1st floor	Hallway Section 3	8' Direct/Indirect T5HO 4L 8' Direct/Indirect T5HO 4L	12 12	234	RT, 4' 25W DE LED T5HO 4L RT, 4' 25W DE LED T5HO 4L	12	100 100	2.8	1.2	1
Community Elementary School	1st floor 1st floor	Hallway Section 3 Hallway Section 3 - Accent	Track Head Hal 75W PAR38	14	75	LED 13W PAR38 Replacement	14	13	1.1	0.2	1
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
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
Community Elementary School Community Elementary School	1st floor 1st floor	Court	High Bay T5HO 4L High Bay T5HO 4L DS	21 4	234	High Bay Compact LED 18 kLm, WG High Bay Compact LED 18 kLm, WG	21	133 133	4.9 0.9	2.8 0.5	0
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	1
Community Elementary School	1st floor	PE Office	2X4 Prism Rec 3L 32W T8 DS	2	90	RT, 4' 10.5W DE LED 3L	2	32	0.2	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	2	21	0.1	0.0	0
Community Elementary School Community Elementary School	1st floor	Storage Room Entrance 2	4' Strip BP 2L 32W T8 2X4 Prism Rec 2L 32W T8	1	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1	21 21	0.1	0.0	
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	
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	
Community Elementary School Community Elementary School	1st floor 1st floor	Mechanical Room Classroom 12301	4' Strip BP 2L 32W T8 2X4 Prism Rec 3L 32W T8 DS Master/Satelli	2	59 90	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 3L	2	21 32	0.1	0.0	H
Community Elementary School	1st floor	Steps to MU1	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	$^{+}$
Community Elementary School	1st floor	Classroom MU1 - 12701	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	10	90	RT, 4' 10.5W DE LED 3L	10	32	0.9	0.3	
Community Elementary School	1st floor	Classroom MU1 - 12701	2X4 Prism Rec 3L 32W T8 DS	3	90	RT, 4' 10.5W DE LED 3L	3	32	0.3	0.1	╄
Community Elementary School Community Elementary School	1st floor 1st floor	Storage Closet 1 Storage Closet 2	4' Strip BP 2L 32W T8 4' Strip BP 2L 32W T8	1	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1	21 21	0.1	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	$^{\dagger}$
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	
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	╀
Community Elementary School Community Elementary School	1st floor 1st floor	Shower Locker Room	4' Vaportight BP 2L 32W T8 Emergency Fixture	2	59	RT, 4' 10.5W DE LED 2L No Action - Emergency Use Only	1	21 0	0.1	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	0.0	0.0	+
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	F
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	+
Community Elementary School Community Elementary School	1st floor 1st floor	Shower Locker Room	4' Vaportight BP 2L 32W T8 Emergency Fixture	1	59	RT, 4' 10.5W DE LED 2L No Action - Emergency Use Only	2	21 0	0.1	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	0.0	0.0	+
Community Elementary School	1st floor	Classroom MU1 - 12702	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	10	90	RT, 4' 10.5W DE LED 3L	10	32	0.9	0.3	
Community Elementary School	1st floor	Classroom MU1 - 12702	2X4 Prism Rec 3L 32W T8 DS	3	90	RT, 4' 10.5W DE LED 3L	3	32	0.3	0.1	F
Community Elementary School Community Elementary School	1st floor 1st floor	Storage Closet 1 Storage Closet 2	4' Strip BP 2L 32W T8 4' Strip BP 2L 32W T8	1	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	⊬
Community Elementary School	1st floor	Stage Closet 2	Cylinder Hal 75W PAR38	14	75	LED 13W PAR38 Replacement	14	13	1.1	0.0	+
Community Elementary School	1st floor	Stage	Track Head Hal 65W PAR30	16	65	LED 10W PAR30 Replacement	16	10	1.0	0.2	$^{\dagger}$
Community Elementary School	1st floor	Seating	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	42	90	RT, 4' 10.5W DE LED 3L	42	32	3.8	1.3	₽
Community Elementary School Community Elementary School	1st floor 1st floor	Seating Seating	2X4 Prism Rec 3L 32W T8 DS 2X4 Prism Rec 3L 32W T8 DS	5	90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	5	32 32	0.5	0.2	⊬
Community Elementary School	1st floor	Entrance 1	2X4 Prism Rec 3L 32W 18 DS 2X4 Prism Rec 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	1	32	0.5	0.2	+
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	T
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	$\Box$
Community Elementary School	1st floor	SD Classroom - 12700	2X4 Prism Rec 3L 32W T8	6	89 90	RT, 4' 10.5W DE LED 3L	6	32	0.5	0.2	╀
Community Elementary School Community Elementary School	1st floor 1st floor	Entrance 2 Storage Room	2X4 Prism Rec 3L 32W T8 DS 4' Strip BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L	2	32 21	0.1	0.0	+
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	
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	$\Box$
Community Elementary School	1st floor 1st floor	Private Office - 12705  Janitor Closet	4' Industrial BP 2L 32W T8 4' Strip BP 2L 32W T8	2	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1	21 21	0.1	0.0	╀
Community Elementary School Community Elementary School	1st floor	Passage	4 Strip BP 2L 32W 18 2X4 Prism Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L RT. 4' 10.5W DE LED 2L	4	21	0.1	0.0	+
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	
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	╄
Community Elementary School	1st floor	Serving Area Serving Area	2X4 Prism Rec 3L 32W T8 DS	14	90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	14	32 32	1.3 0.4	0.4	⊬
Community Elementary School  Community Elementary School	1st floor 1st floor	Locker Room	2X4 Prism Rec 3L 32W T8 DS 2X2 Prism Rec 3L T8	1	47	RT, 2' 7W DE LED 3L	1	21	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	
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	$\perp$
Community Elementary School  Community Elementary School	1st floor 1st floor	By Exit Door Prep	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 4L 32W T8 DS	23	59 118	RT, 4' 10.5W DE LED 2L RT. 4' 10.5W DE LED 4L	23	21 42	0.1 2.7	1.0	⊬
Community Elementary School	1st floor	Prep	2X4 Prism Rec 4L 32W T8 DS	6	118	RT, 4' 10.5W DE LED 4L	6	42	0.7	0.3	+
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	
Community Elementary School	1st floor	Hood	Jelly Jar Inc 60W A	4	60	LED 9W A19 Replacement	4	10	0.2	0.0	£
Community Elementary School Community Elementary School	1st floor 1st floor	Cooler	Jelly Jar LED 9W A Jelly Jar Inc 60W A	3	9 60	LED 9W A19 Replacement LED 9W A19 Replacement	3	10	0.0	0.0	+
Community Elementary School	1st floor	Freezer	Jelly Jar LED 9W A	1	9	LED 9W A19 Replacement  LED 9W A19 Replacement	1	10	0.2	0.0	+
Community Elementary School	1st floor	Private Office	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	4	90	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	
Community Elementary School	1st floor	Private Office	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	4	90	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	+
Community Elementary School Community Elementary School	1st floor 1st floor	Janitor Closet / Wash Dry Storage Room	4' Vaportight BP 2L 32W T8 4' Strip BP 2L 32W T8	1 12	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1 12	21 21	0.1	0.0	+
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	
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	F
Community Elementary School	1st floor	Dock and Receiving	4' Industrial BP 2L 32W T8 4' Strip BP 2L 32W T8	8	59	RT, 4' 10.5W DE LED 2L	8	21	0.5	0.2	+
Community Elementary School  Community Elementary School	1st floor 1st floor	Storage Closet Copy Room - 12901	4' Strip BP 2L 32W T8 2X4 Prism Rec 3L 32W T8	1 12	59 89	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 3L	1 12	21 32	0.1	0.0	+
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	0.4	
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	£
Community Elementary School  Community Elementary School	1st floor 1st floor	Restroom - Boy & Girls	2X4 Prism Rec 2L 32W T8 4' Strip RP 2L 32W T8	1	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1	21 21	0.1	0.0	+
Community Elementary School  Community Elementary School	1st floor	Janitor Closet - Boys Restroom Hallway & Vestibule	4' Strip BP 2L 32W T8 2X4 Prism Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	4	21	0.1	0.0	+
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	İ
Community Elementary School	1st floor	Classroom - 532	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	£
Community Elementary School	1st floor	Classroom - 530	2X4 Prism Rec 3L 32W T8 DS Master/Satelli 2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	+
Community Elementary School  Community Elementary School	1st floor 1st floor	Classroom - 528 Classroom - 526	2X4 Prism Rec 3L 32W T8 DS Master/Satelli 2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	12	32 32	1.1	0.4	+
Community Elementary School	1st floor	Classroom - 524	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	I
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	F
Community Elementary School	1st floor	Classroom - 518	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	10	90	RT, 4' 10.5W DE LED 3L	10	32	0.9	0.3	+
Community Elementary School Community Elementary School	1st floor 1st floor	Classroom - 516 Storage Room	2X4 Prism Rec 3L 32W T8 DS Master/Satelli 4' Strip BP 2L 32W T8	10 2	90 59	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L	10	32 21	0.9	0.3	+
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	+
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	I
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	F
Community Elementary School	1st floor	Workroom 506 - Restroom Women	2X4 Prism Rec 2L 32W T8	1 4	59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 31	4	21	0.1	0.0	+
Community Elementary School Community Elementary School	1st floor 1st floor	Breakroom - 508 Restroom - Men (Private)	2X4 Prism Rec 3L 32W T8 2X4 Prism Rec 2L 32W T8	1	89 59	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L	1	32 21	0.4	0.1	+
Community Elementary School	1st floor	Private Office	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	2	90	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	İ
Community Elementary School	1st floor	Private Office	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	2	90	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	$\Box$
Community Elementary School	1st floor	Waiting Room Hallway	2X4 Prism Rec 3L 32W T8 1x4 Prism Rec 2L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32 21	0.2	0.1	+
Community Elementary School	1st floor			1	59	RT. 4' 10.5W DE LED 2L	1 1		0.1	0.0	



	Location		Existing Fixt	ure		Proposed Fix	ture			kW	
Building	Floor	Room	Fixture	Quantity	Input	ECM	Quantity	Input	Pre	Post	Sav
Community Elementary School	1st floor	Private Office - 510	2X4 Prism Rec 2L 32W T8	2	Wattage 59	RT, 4' 10.5W DE LED 2L	2	Wattage 21	0.1	0.0	
Community Elementary School	1st floor	Classroom - 512	2X4 Prism Rec 3L 32W T8	4	89	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	1
Community Elementary School	1st floor	Classroom - 517	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	(
Community Elementary School Community Elementary School	1st floor 1st floor	Classroom - 515	2X4 Prism Rec 3L 32W T8 DS Master/Satelli 2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	12	32 32	1.1	0.4	0
Community Elementary School	1st floor	Classroom - 511	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	1
Community Elementary School	1st floor	Hallway Section 3 - Case	6" Rec Can Hal 75W PAR38	4	75	LED 9W A19 Replacement	4	10	0.3	0.0	-
Community Elementary School	Exterior	World Courtyard	Wall Pack LED 24W Corn Cob	4	24	No Action - Existing Efficient/LED Fixture	4	24	0.1	0.1	-
Community Elementary School	Exterior	World Courtyard - Flag	Flood LED 20W	1	20	No Action - Existing Efficient/LED Fixture	1	20	0.0	0.0	-
Community Elementary School Community Elementary School	1st floor 1st floor	Hallway Hallway	1x4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8	9	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	9	21	0.1	0.0	+
Community Elementary School	1st floor	Classroom - 330	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	10	90	RT, 4' 10.5W DE LED 3L	10	32	0.9	0.3	$^{+}$
Community Elementary School	1st floor	Classroom - 330	2X4 Prism Rec 3L 32W T8 DS	1	90	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	
Community Elementary School	1st floor	Classroom - 330 - Restroom	4' Vandal Proof BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L TP	1	21	0.1	0.0	+
Community Elementary School Community Elementary School	1st floor 1st floor	Classroom - 330 - ISO Classroom - 328	4' Vandal Proof BP 2L 32W T8 2X4 Prism Rec 3L 32W T8 DS Master/Satelli	1 12	59 90	RT, 4' 10.5W DE LED 2L TP RT, 4' 10.5W DE LED 3L	1 12	21 32	0.1	0.0	+
Community Elementary School	1st floor	Classroom - 326	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	+
Community Elementary School	1st floor	Classroom - 324	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	土
Community Elementary School	1st floor	Classroom - 322	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	+
Community Elementary School	1st floor	Classroom - 316	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	8	90	RT, 4' 10.5W DE LED 3L	12	32	0.7	0.3	+
Community Elementary School Community Elementary School	1st floor 1st floor	Classroom - 314 Classroom - 325	2X4 Prism Rec 3L 32W T8 DS Master/Satelli 2X4 Prism Rec 2L 32W T8	12 4	59	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L	4	32 21	0.2	0.4	+
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	+
Community Elementary School	1st floor	Storage - Records	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	
Community Elementary School	1st floor	Private Office - 327	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	+
Community Elementary School Community Elementary School	1st floor 1st floor	Private Office - 327 - Closet Work Room - 304	4' Strip BP 2L 32W T8 2X4 Prism Rec 3L 32W T8	6	59 89	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 3L	6	21 32	0.1	0.0	+
Community Elementary School	1st floor	Restroom - Women (Private)	2X4 Prism Rec 2L 32W T8	1	59	RT. 4' 10.5W DE LED 3L	1	21	0.3	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	
Community Elementary School	1st floor	Breakroom - 306	2X4 Prism Rec 3L 32W T8	4	89	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	T
Community Elementary School	1st floor	Private Office - 308	2X4 Prism Rec 3L 32W T8	2	89	RT, 4 10.5W DE LED 3L	2	32	0.2	0.1	+
Community Elementary School  Community Elementary School	1st floor 1st floor	Private Office Private Office	2X4 Prism Rec 3L 32W T8 DS Master/Satelli 2X4 Prism Rec 3L 32W T8 DS Master/Satelli	2	90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	2	32 32	0.2	0.1	+
Community Elementary School  Community Elementary School	1st floor	Lobby	2X4 Prism Rec 3L 32W 18 DS Master/Satelli 2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	+
Community Elementary School	1st floor	Hallway	1x4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	$^{+}$
Community Elementary School	1st floor	Hallway / Vestibule	2X4 Prism Rec 2L 32W T8	12	59	RT, 4' 10.5W DE LED 2L	12	21	0.7	0.3	I
Community Elementary School	1st floor	Private Office - 310	2X4 Prism Rec 3L 32W T8	4	89	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	+
Community Elementary School  Community Elementary School	1st floor	Private Office - 312	2X4 Prism Rec 3L 32W T8	4	89 59	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L	1	32 21	0.4	0.1	+
Community Elementary School	1st floor	Storage Closet by Vestibule  Classroom - 317	4' Strip BP 2L 32W T8 2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 2L	12	32	0.1	0.0	+
Community Elementary School	1st floor	Classroom - 315	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	+
Community Elementary School	1st floor	Classroom - 313	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	I
Community Elementary School	1st floor	Classroom - 311	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	+
Community Elementary School  Community Elementary School	1st floor 1st floor	Hallway / Vestibule Hallway / Vestibule	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8	9	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	9	21 21	0.5	0.2	+
Community Elementary School	1st floor	Hallway / Vestibule	2X4 Prism Rec 2L 32W T8	9	59	RT, 4' 10.5W DE LED 2L	9	21	0.5	0.1	+
Community Elementary School	1st floor	Hallway / Vestibule	2X4 Prism Rec 2L 32W T8	3	59	RT, 4' 10.5W DE LED 2L	3	21	0.2	0.1	+
Community Elementary School	1st floor	Hallway / Vestibule	6" Rec Can CFL 26W 4P	3	27	RC LED Retrofit Kit 1500 Lm 6" Adj. 1000 Lm	3	13	0.1	0.0	
Community Elementary School	1st floor	Hallway / Vestibule - Case	6" Rec Can Hal 75W PAR38	8	75	LED 9W A19 Replacement	8	10	0.6	0.1	╄
Community Elementary School  Community Elementary School	1st floor 1st floor	Classroom - 522 Classroom - 520 - Music	2X4 Prism Rec 3L 32W T8 DS Master/Satelli 2X4 Prism Rec 4L 32W T8	12	90 112	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 4L	12	32 42	1.1	0.4	+
Community Elementary School	1st floor	Classroom - 520 - Music	2X4 Prism Rec 4L 32W T8 DS	2	118	RT, 4' 10.5W DE LED 4L	2	42	0.2	0.1	+
Community Elementary School	1st floor	Classroom - 520 - Music - Storage	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	+
Community Elementary School	1st floor	Classroom - 420	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	$\Box$
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	+
Community Elementary School Community Elementary School	1st floor 1st floor	Restroom - Boy & Girls  Janitor Closet - Boys Restroom	2X4 Prism Rec 2L 32W T8 4' Strip BP 2L 32W T8	1	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1	21 21	0.1	0.0	+
Community Elementary School	1st floor	Classroom - 418	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	+
Community Elementary School	1st floor	Classroom - 416	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	
Community Elementary School	1st floor	Classroom - 414	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	4
Community Elementary School	1st floor	Classroom - 412	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	+
Community Elementary School  Community Elementary School	1st floor 1st floor	Classroom - 410 Classroom - 320	2X4 Prism Rec 3L 32W T8 DS Master/Satelli 2X4 Prism Rec 4L 32W T8	12	112	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 4L	13	32 42	1.1	0.4	+
Community Elementary School	1st floor	Classroom - 320	2X4 Prism Rec 4L 32W T8 DS	2	118	RT, 4' 10.5W DE LED 4L	2	42	0.2	0.1	+
Community Elementary School	1st floor	Classroom - 320 - Closet	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	I
Community Elementary School	1st floor	Classroom - 318	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	F
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	+
Community Elementary School Community Elementary School	1st floor 1st floor	Restroom - Boy & Girls  Janitor Closet - Boys Restroom	2X4 Prism Rec 2L 32W T8 4' Strip BP 2L 32W T8	1	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	+
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	0.0	士
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	I
Community Elementary School	1st floor	Janitor Closet - Boys Restroom	4' Strip BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	+
Community Elementary School  Community Elementary School	Exterior Exterior	United States Courtyard United States Courtyard - Flag	Wall Pack LED 24W Corn Cob Flood LED 20W	1	24	No Action - Existing Efficient/LED Fixture No Action - Existing Efficient/LED Fixture	1	24	0.1	0.1	+
Community Elementary School	1st floor	Restroom - Boy & Girls - by Library	2X4 Prism Rec 2L 32W T8	8	59	RT, 4' 10.5W DE LED 2L	8	21	0.5	0.0	+
Community Elementary School	1st floor	Restroom - Boy & Girls - by Library	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	T
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	Ţ
Community Elementary School	1st floor	Hallway	1x4 Prism Rec 2L 32W T8	7	59	RT, 41 10.5W DE LED 2L	7	21	0.1	0.0	+
Community Elementary School Community Elementary School	1st floor 1st floor	Hallway Hallway	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8	7 2	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	7 2	21	0.4	0.1	+
Community Elementary School	1st floor	Classroom - 228	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	Ť
Community Elementary School	1st floor	Classroom - 226	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	I
Community Elementary School	1st floor	Classroom - 224	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 41 10.5W DE LED 3L	12	32	1.1	0.4	+
Community Elementary School	1st floor	Classroom - 222	2X4 Prism Rec 3L 32W T8 DS Master/Satelli 2X4 Prism Rec 3L 32W T8	12 4	90 89	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	12	32 32	1.1	0.4	+
Community Elementary School Community Elementary School	1st floor 1st floor	Classroom - 221 Classroom - 216	2X4 Prism Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8	6	89	RT, 4" 10.5W DE LED 3L RT, 4" 10.5W DE LED 3L	6	32	0.4	0.1	+
Community Elementary School	1st floor	Classroom - 216 - Closet	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	士
Community Elementary School	1st floor	Classroom - 214	2X4 Prism Rec 3L 32W T8	6	89	RT, 4' 10.5W DE LED 3L	6	32	0.5	0.2	T
Community Elementary School	1st floor	Classroom - 212	2X4 Prism Rec 3L 32W T8	6	89	RT, 4' 10.5W DE LED 3L	6	32	0.5	0.2	+
Community Elementary School	1st floor 1st floor	Restroom - Women (Private) Workroom - 210	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 3L 32W T8	6	59 89	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 3L	6	21 32	0.1	0.0	+
Community Elementary School  Community Elementary School	1st floor	Workroom - 210 Room	2X4 Prism Rec 3L 32W 18 2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L	1	21	0.5	0.2	+
Community Elementary School	1st floor	Room	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	T
	1st floor	Storage	4' Strip BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	I
	1st floor	Hallway	1x4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	+
Community Elementary School	1st floor	Hallway Hallway	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8	7	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	7 2	21 21	0.4	0.1	+
Community Elementary School Community Elementary School			EAT - 113111 NEC 2L 324V 10		59	RT, 4 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1	21	0.1		+
Community Elementary School Community Elementary School Community Elementary School Community Elementary School Community Elementary School	1st floor 1st floor		2X4 Prism Rec 2L 32W T8	1							
Community Elementary School Community Elementary School Community Elementary School		Restroom - Men (Private) Storage	2X4 Prism Rec 2L 32W T8 4' Strip BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	t
Community Elementary School Community Elementary School Community Elementary School Community Elementary School Community Elementary School Community Elementary School	1st floor 1st floor 1st floor	Restroom - Men (Private) Storage Classroom - 218	4' Strip BP 2L 32W T8 2X4 Prism Rec 3L 32W T8	2	59 89	RT, 4 <sup>1</sup> 10.5W DE LED 2L RT, 4 <sup>1</sup> 10.5W DE LED 3L	2	21 32	0.1 0.4	0.0	Ė
Community Elementary School Community Elementary School Community Elementary School Community Elementary School Community Elementary School Community Elementary School Community Elementary School Community Elementary School	1st floor 1st floor 1st floor 1st floor	Restroom - Men (Private) Storage Classroom - 218 Classroom - 219	4" Strip BP 2L 32W T8 2X4 Prism Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8 DS Master/Satelli	2 4 12	59 89 90	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	2 4 12	21 32 32	0.1 0.4 1.1	0.0 0.1 0.4	İ
Community Elementary School Community Elementary School Community Elementary School Community Elementary School Community Elementary School Community Elementary School	1st floor 1st floor 1st floor	Restroom - Men (Private) Storage Classroom - 218	4' Strip BP 2L 32W T8 2X4 Prism Rec 3L 32W T8	2	59 89	RT, 4 <sup>1</sup> 10.5W DE LED 2L RT, 4 <sup>1</sup> 10.5W DE LED 3L	2	21 32	0.1 0.4	0.0	+



	Location		Existing Fixt	ure		Proposed Fix	cture			kW	
Building	Floor	Room	Fixture	Quantity	Input	ECM	Quantity	Input	Pre	Post	Sav
Community Elementary School	Exterior	Kansas Courtyard	Wall Pack LED 24W Corn Cob	4	Wattage 24	No Action - Existing Efficient/LED Fixture	4	Wattage 24	0.1	0.1	(
Community Elementary School	Exterior	Kansas Courtyard Flag	Flood LED 20W	1	20	No Action - Existing Efficient/LED Fixture	1	20	0.0	0.0	-
Community Elementary School	1st floor	Hallway	1x4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	(
Community Elementary School Community Elementary School	1st floor 1st floor	Hallway Hallway	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8	8	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	8 3	21	0.5	0.2	0
Community Elementary School	1st floor	Vestibule	2X2 Prism Rec 4L T8	1	61	RT, 2' 7W DE LED 4L	1	28	0.1	0.0	-
Community Elementary School	1st floor	Storage Closet in Vestibule	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0
Community Elementary School Community Elementary School	1st floor 1st floor	Classroom - 10 Classroom - 10	2X4 Prism Rec 3L 32W T8 DS Master/Satelli 2X4 Prism Rec 3L 32W T8 DS	14	90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	14	32 32	1.3 0.1	0.4	- 0
Community Elementary School	1st floor	Classroom - 10	2X4 Prism Rec 2L 32W T8 DS Master/Satelli	2	64	RT, 4' 10.5W DE LED 3L	2	21	0.1	0.0	
Community Elementary School	1st floor	Classroom - 10 - Storage Closet	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	
Community Elementary School Community Elementary School	1st floor 1st floor	Shared Restroom Entrance Shared Restroom	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8	1	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	
Community Elementary School	1st floor	Shared Restroom	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	+
Community Elementary School	1st floor	Classroom - 12	2X4 Prism Rec 3L 32W T8 DS Master/Satelli		90	RT, 4' 10.5W DE LED 3L	14	32	1.3	0.4	
Community Elementary School  Community Elementary School	1st floor 1st floor	Classroom - 12 Classroom - 12	2X4 Prism Rec 3L 32W T8 DS 2X4 Prism Rec 2L 32W T8 DS Master/Satelli	2	90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L	2	32 21	0.1	0.0	╁
Community Elementary School	1st floor	Classroom - 12 - Storage Closet	4' Strip BP 2L 32W T8	1	59	RT, 4 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	+
Community Elementary School	1st floor	Classroom - 14	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	14	90	RT, 4' 10.5W DE LED 3L	14	32	1.3	0.4	
Community Elementary School	1st floor	Classroom - 14	2X4 Prism Rec 3L 32W T8 DS	1	90	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	╀
Community Elementary School Community Elementary School	1st floor 1st floor	Classroom - 14 Classroom - 14 - Storage Closet	2X4 Prism Rec 2L 32W T8 DS Master/Satelli 4' Strip BP 2L 32W T8	2	64 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	+
Community Elementary School	1st floor	Shared Restroom Entrance	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	$\pm$
Community Elementary School	1st floor	Shared Restroom	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	$\Box$
Community Elementary School Community Elementary School	1st floor 1st floor	Shared Restroom Classroom - 16	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 3L 32W T8 DS Master/Satelli	14	59 90	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 3L	1 14	21 32	0.1 1.3	0.0	╀
Community Elementary School	1st floor	Classroom - 16	2X4 Prism Rec 3L 32W T8 DS	14	90	RT, 4' 10.5W DE LED 3L	1 1	32	0.1	0.0	+
Community Elementary School	1st floor	Classroom - 16	2X4 Prism Rec 2L 32W T8 DS Master/Satelli	2	64	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	
Community Elementary School	1st floor	Classroom - 16 - Storage Closet	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	
Community Elementary School	1st floor	Storage Closet - in Hallway	4' Strip BP 2L 32W T8 2X4 Prism Rec 3L 32W T8	1	59 89	RT, 4' 10.5W DE LED 2L	1	21 32	0.1	0.0	╀
Community Elementary School  Community Elementary School	1st floor 1st floor	Copy Room - 18 - Storage Closet	2X4 Prism Rec 3L 32W T8 4' Strip BP 2L 32W T8	6	89 59	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L	6 1	32 21	0.5	0.2	+
Community Elementary School	1st floor	Restroom (Private)	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	T
Community Elementary School	1st floor	Room	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	F
Community Elementary School	1st floor	Restroom - Boy & Girls Restroom - Boy & Girls	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8	8	59 59	RT, 4 <sup>1</sup> 10.5W DE LED 2L RT, 4 <sup>1</sup> 10.5W DE LED 2L	8	21	0.5	0.2	+
Community Elementary School Community Elementary School	1st floor 1st floor	Janitor Closet - Boys Restroom	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	+
Community Elementary School	1st floor	Classroom - 17	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	14	90	RT, 4' 10.5W DE LED 3L	14	32	1.3	0.4	I
Community Elementary School	1st floor	Classroom - 17	2X4 Prism Rec 3L 32W T8 DS	1	90	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	F
Community Elementary School  Community Elementary School	1st floor 1st floor	Classroom - 17 Classroom - 17 - Storage Closet	2X4 Prism Rec 2L 32W T8 DS Master/Satelli 4' Strip BP 2L 32W T8	1	64 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	╀
Community Elementary School	1st floor	Shared Restroom Entrance	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	+
Community Elementary School	1st floor	Shared Restroom	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	I
Community Elementary School	1st floor	Shared Restroom	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	F
Community Elementary School Community Elementary School	1st floor 1st floor	Classroom - 15 Classroom - 15	2X4 Prism Rec 3L 32W T8 DS Master/Satelli 2X4 Prism Rec 3L 32W T8 DS	14	90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	14	32	1.3 0.1	0.4	╁
Community Elementary School	1st floor	Classroom - 15	2X4 Prism Rec 2L 32W T8 DS Master/Satelli	2	64	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	+
Community Elementary School	1st floor	Classroom - 15 - Storage Closet	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	$\pm$
Community Elementary School	1st floor	Classroom - 13	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	14	90	RT, 4' 10.5W DE LED 3L	14	32	1.3	0.4	F
Community Elementary School  Community Elementary School	1st floor 1st floor	Classroom - 13 Classroom - 13	2X4 Prism Rec 3L 32W T8 DS 2X4 Prism Rec 2L 32W T8 DS Master/Satelli	2	90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L	2	32 21	0.1	0.0	╀
Community Elementary School	1st floor	Classroom - 13 - Storage Closet	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	+
Community Elementary School	1st floor	Shared Restroom Entrance	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	
Community Elementary School	1st floor	Shared Restroom	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	I
Community Elementary School  Community Elementary School	1st floor 1st floor	Shared Restroom Classroom - 11	2X4 Prism Rec 2L 32W T8  2X4 Prism Rec 3L 32W T8 DS Master/Satelli	1 14	59 90	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 3L	1 14	21 32	0.1 1.3	0.0	╁
Community Elementary School	1st floor	Classroom - 11	2X4 Prism Rec 3L 32W T8 DS	1	90	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	+
Community Elementary School	1st floor	Classroom - 11	2X4 Prism Rec 2L 32W T8 DS Master/Satelli	2	64	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	
Community Elementary School	1st floor	Classroom - 11 - Storage Closet	4' Strip BP 2L 32W T8	1 1	59	RT, 4' 10.5W DE LED 2L	1 47	21	0.1	0.0	╀
Community Elementary School  Community Elementary School	1st floor 1st floor	Hallway / Vestibule Hallway / Vestibule	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8	4	59 59	RT, 4' 10.5W DE LED 2L RT. 4' 10.5W DE LED 2L	17	21	0.2	0.4	+
Community Elementary School	1st floor	Hallway / Vestibule	6" Rec Can CFL 26W 4P	4	27	RC LED Retrofit Kit 1500 Lm 6" Adj. 1000 Lm	4	13	0.1	0.1	$\pm$
Community Elementary School	1st floor	Hallway / Vestibule - Case	6" Rec Can Hal 75W PAR38	4	75	LED 9W A19 Replacement	4	10	0.3	0.0	$\perp$
Community Elementary School  Community Elementary School	1st floor 1st floor	Classroom - 120 Classroom - 120	2X4 Prism Rec 4L 32W T8 2X4 Prism Rec 4L 32W T8 DS	10	112	RT, 4' 10.5W DE LED 4L RT, 4' 10.5W DE LED 4L	10	42	0.2	0.4	╁
Community Elementary School	1st floor	Classroom - 120 - Storage	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 4L	1	21	0.2	0.0	+
Community Elementary School	1st floor	Electrical Closet	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	T
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	+
Community Elementary School  Community Elementary School	1st floor 1st floor	Restroom - Boy & Girls  Janitor Closet - Boys Restroom	2X4 Prism Rec 2L 32W T8 4' Strip BP 2L 32W T8	1	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	+
Community Elementary School	1st floor	Classroom - 118	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	T
Community Elementary School	1st floor	Shared Restroom	2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	T
Community Elementary School  Community Elementary School	1st floor 1st floor	Shared Sink Classroom - 116	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 3L 32W T8 DS Master/Satelli	1 12	59 90	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 3L	1 12	21 32	0.1	0.0	+
Community Elementary School	1st floor	World Courtyard - Storage 1	4' Strip BP 2L 32W T8	12	59	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L	12	21	0.1	0.4	+
Community Elementary School	1st floor	World Courtyard - Storage 2	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	T
Community Elementary School	1st floor	Kansas Courtyard - Storage 1	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	H
Community Elementary School Community Elementary School	1st floor 1st floor	Kansas Courtyard - Storage 2 Storage G	4' Strip BP 2L 32W T8 4' Strip BP 2L 32W T8	1	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	+
Community Elementary School	1st floor	Storage D	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	T
Community Elementary School	1st floor	Storage B	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	T
Community Elementary School	1st floor	Classroom- 114 Shared Restroom	2X4 Prism Rec 3L 32W T8 DS Master/Satelli 2X4 Prism Rec 2L 32W T8	12	90 59	RT, 4' 10.5W DE LED 3L	12	32 21	1.1 0.1	0.4	+
Community Elementary School Community Elementary School	1st floor 1st floor	Shared Restroom Shared Sink	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	+
Community Elementary School	1st floor	Classroom- 112	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	İ
Community Elementary School	1st floor	Classroom- 110	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	F
Community Elementary School	1st floor	Classroom- 110 - Restroom	2X4 Prism Rec 2L 32W T8	1	59 59	RT, 4' 10.5W DE LED 2L	1 1	21	0.1	0.0	+
Community Elementary School Community Elementary School	1st floor 1st floor	Classroom- 110 - Sink Classroom- 119	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 3L 32W T8 DS Master/Satelli	14	90	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 3L	14	21 32	1.3	0.0	+
Community Elementary School	1st floor	Classroom- 119	2X4 Prism Rec 3L 32W T8 DS	1	90	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	T
Community Elementary School	1st floor	Classroom- 119	2X4 Prism Rec 2L 32W T8 DS Master/Satelli	2	64	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	F
Community Elementary School  Community Elementary School	1st floor 1st floor	Classroom- 119 - Storage Closet Classroom- 119 - Restroom	4' Strip BP 2L 32W T8 2X4 Prism Rec 2L 32W T8	1	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1 1	21	0.1	0.0	+
Community Elementary School	1st floor	Classroom- 119 - Restroom  Classroom- 120 - Restroom	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	+
Community Elementary School	1st floor	Classroom- 120	2X4 Prism Rec 3L 32W T8 DS Master/Satelli	14	90	RT, 4' 10.5W DE LED 3L	14	32	1.3	0.4	T
Community Elementary School	1st floor	Classroom- 120	2X4 Prism Rec 3L 32W T8 DS	1	90	RT, 4' 10.5W DE LED 3L	1	32	0.1	0.0	Γ
Community Elementary School	1st floor	Classroom- 120	2X4 Prism Rec 2L 32W T8 DS Master/Satelli	2	64	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	+
Community Elementary School  Community Elementary School	1st floor Exterior	Classroom- 120- Storage Closet  Main Entrance	4' Strip BP 2L 32W T8 Wall Pack LED 24W Corn Cob	4	59 24	RT, 4' 10.5W DE LED 2L No Action - Existing Efficient/LED Fixture	4	21	0.1	0.0	+
Community Elementary School	Exterior	Main Entrance	Canopy LED 10W	1	10	No Action - Existing Efficient/LED Fixture	1	10	0.0	0.0	$^{\dagger}$
Community Elementary School	Exterior	Globe	Missing Fixture	1	0	Flood LED 3 kLm KN/YK PC FA	1	19	0.0	0.0	T
	Exterior	Wall / Grass	Wall Pack LED 24W Corn Cob	3	24	No Action - Existing Efficient/LED Fixture	3	24	0.1	0.1	
Community Elementary School  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	_



	Location		Existing F	ixture		Proposed Fix	kture			kW	
Building	Floor	Room	Fixture	Quantity	Input	ECM	Quantity	Input	Pre	Post	Sa
ommunity Elementary School	Exterior	Back Wall - Side Walk	Wall Pack LED 24W Corn Cob	2	Wattage 24	No Action - Existing Efficient/LED Fixture	2	Wattage 24	0.0	0.0	۳
ommunity 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	t
ommunity 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	İ
mmunity 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	1
mmunity Elementary School	Exterior Exterior	Back Parking Lot	Shoebox LED 155W Vandal Proof LED 20W Corn Cob	1	155 20	No Action - Existing Efficient/LED Fixture	1	155 20	0.6	0.6	+
mmunity Elementary School	Exterior	Hallway - Door Back Wall	Wall Pack LED 24W Corn Cob	2	24	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	2	24	0.0	0.0	t
mmunity 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	t
mmunity 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	T
ommunity 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	Į
ommunity Elementary School	Exterior	Back Wall	Wall Pack LED 24W Corn Cob	4	24	No Action - Existing Efficient/LED Fixture	1	24	0.1	0.1	+
ommunity Elementary School ommunity Elementary School	Exterior Exterior	Hallway - Door Hallway - Door	Vandal Proof LED 20W Corn Cob Vandal Proof LED 20W Corn Cob	1	20	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	1	20	0.0	0.0	+
ommunity 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	t
ommunity 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	Ι
ommunity 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	+
ommunity Elementary School ommunity Elementary School	Exterior	Side Asphalt Loop Hallway Door	Shoebox LED 155W Vandal Proof LED 20W Corn Cob	2	155 20	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	2	155 20	0.5	0.5	+
ommunity Elementary School	Exterior	Door	Wall Pack LED 24W Corn Cob	3	24	No Action - Existing Efficient/LED Fixture	3	24	0.0	0.0	+
ommunity Elementary School	Exterior	Door	Wall Pack MH 100W	1	128	LED Omni Retrofit 3 kLm Med Base	1	27	0.1	0.0	t
ommunity Elementary School	Exterior	Door	Vandal Proof LED 20W Corn Cob	1	20	No Action - Existing Efficient/LED Fixture	1	20	0.0	0.0	T
ommunity Elementary School	Exterior	Kitchen Door	Canopy LED 10W	1	10	No Action - Existing Efficient/LED Fixture	1	10	0.0	0.0	I
ommunity 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	+
ommunity Elementary School ommunity Elementary School	Exterior	Door Front Wall	Vandal Proof LED 20W Corn Cob Wall Pack LED 24W Corn Cob	2	20	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	2	20	0.0	0.0	+
ommunity Elementary School	Exterior	Door	Vandal Proof LED 20W Corn Cob	1	20	No Action - Existing Efficient/LED Fixture	1	20	0.0	0.0	t
ommunity Elementary School	Exterior	Front Parking Lot	Shoebox LED 155W	6	155	No Action - Existing Efficient/LED Fixture	6	155	0.9	0.9	T
ommunity Elementary School	Exterior	Door	Vandal Proof LED 20W Corn Cob	1	20	No Action - Existing Efficient/LED Fixture	1	20	0.0	0.0	I
ommunity Elementary School	Exterior	Entrance	Vandal Proof LED 20W Corn Cob	4	20	No Action - Existing Efficient/LED Fixture	4	20	0.1	0.1	I
ommunity Elementary School  JH Early Childhood Center	Exterior 1st floor	Side Parking Lot Vestibule	Shoebox LED 155W None Existing	3 0	155	No Action - Existing Efficient/LED Fixture No Action	3 0	155 0	0.5	0.5	+
JH Early Childhood Center  JH Early Childhood Center	1st floor	Open Office	None Existing 2X4 Prism Rec 3L 32W T8 DS	13	90	No Action RT, 4' 10.5W DE LED 3L	13	32	1.2	0.0	+
JH Early Childhood Center	1st floor	Long Hallway	2X4 Prism Rec 2L 32W T8	21	59	RT, 4' 10.5W DE LED 3L	21	21	1.2	0.4	t
JH Early Childhood Center	1st floor	Long Hallway	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	T
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	Į
JH Early Childhood Center	1st floor	Vestibule by Classroom 101	2X4 Prism Rec 2L 32W T8	1 1	59 59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	+
JH Early Childhood Center JH Early Childhood Center	1st floor 1st floor	Alcove by Multi-Purpose Room Classroom - 107	2X4 Prism Rec 2L 32W T8 8' Wrap BP 4L 32W T8	5	112	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 4L	5	21 42	0.1	0.0	+
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	t
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	T
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	I
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 2	14	0.2	0.0	+
JH Early Childhood Center JH Early Childhood Center	1st floor	Restroom - Girls  Janitor Closet	Vanity LED 9W A 4' Wrap BP 2L 32W T8	1	9 59	LED 9W A19 Replacement RT, 4' 10.5W DE LED 2L	1	10 21	0.0	0.0	t
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	t
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	T
JH Early Childhood Center	1st floor	Multi-Purpose Room	High Bay MH 400W	12	458	High Bay Compact LED 18 kLm, WG	12	133	5.5	1.6	I
JH Early Childhood Center	1st floor	Multi-Purpose Room	Exit Sign Rec	2 4	30 59	Exit Sign LED Retro	2	4	0.1	0.0	+
JH Early Childhood Center JH Early Childhood Center	1st floor 1st floor	Multi-Purpose Room - Storage Passage	4' Strip BP 2L 32W T8 Drum LED 9W A	1	9	RT, 4' 10.5W DE LED 2L LED 9W A19 Replacement	1	21 10	0.2	0.1	+
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	t
JH Early Childhood Center	Mezzanine	Mezzanine	Drum Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	Τ
JH Early Childhood Center	Mezzanine	Storage	Drum Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	I
JH Early Childhood Center JH Early Childhood Center	1st floor 1st floor	Mechanical Room Private Office	Keyless Inc 150W A 8' Wrap BP 4L 32W T8	1	150 112	LED 9W A19 Replacement RT. 4' 10.5W DE LED 4L	1	10 42	0.2	0.0	+
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	0.0	t
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	t
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	Ι
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	+
JH Early Childhood Center JH Early Childhood Center	1st floor	Classroom - 109 - Sink	3' Undercabinet 1L 25W T8	1	26 59	RT, 3' 12W DE LED 1L	1	12 14	0.0	0.0	+
JH Early Childhood Center	1st floor 1st floor	109 / 111 Shared Storage Classroom - 111	2x2 Prism Rec 2L 32W U6 T8 8' Wrap BP 4L 32W T8	5	112	RT, 2' 7W DE LED 2L, 2x2 Refl Kit RT, 4' 10.5W DE LED 4L	5	42	0.1	0.0	t
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	t
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	Ι
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	1
JH Early Childhood Center	1st floor	Classroom - 111 - Sink	3' Undercabinet 1L 25W T8	1 12	26	RT, 3' 12W DE LED 1L RT, 4' 10.5W DE LED 4L	1 12	12	0.0	0.0	+
JH Early Childhood Center JH Early Childhood Center	1st floor	Classroom - 113 Classroom - 113 - Exit Door	8' Wrap BP 4L 32W T8 Exit Sign Combo LED	13	112 3	No Action - Existing Efficient/LED Fixture	13	42	1.5 0.0	0.5	+
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	t
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	I
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	+
JH Early Childhood Center JH Early Childhood Center	1st floor 1st floor	Classroom - 120 Classroom - 120 - Restroom	4 <sup>1</sup> Wrap BP 2L 32W T8 Vanity Inc 60W A	1	59 60	RT, 4' 10.5W DE LED 2L LED 9W A19 Replacement	1	21 10	0.1	0.0	+
JH Early Childhood Center  JH Early Childhood Center	1st floor	Classroom - 120 - Restroom - Shared	Vanity Inc 60W A Vanity Inc 60W A	1	60	LED 9W A19 Replacement LED 9W A19 Replacement	1	10	0.1	0.0	+
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	İ
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	I
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	1
JH Early Childhood Center	1st floor	Classroom - 118 - Restroom Classroom - 1118- Sink	4' Wrap BP 4L 32W T8 3' Undercabinet 1L 25W T8	1	112 26	RT, 4' 10.5W DE LED 4L RT, 3' 12W DE LED 1L	1	42 12	0.1	0.0	+
JH Early Childhood Center JH Early Childhood Center	1st floor	Mechanical Room	4' Wrap BP 2L 32W T8	4	59	RT, 4' 10.5W DE LED 1L	4	21	0.0	0.0	+
JH Early Childhood Center	1st floor	Janitor Closet	RLM LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.2	0.0	t
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	I
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	Ĺ
JH Early Childhood Center	1st floor	Nurse Office - Restroom	Vanity LED 9W A	1 1	9	LED 9W A19 Replacement	1 4	10	0.0	0.0	+
JH Early Childhood Center JH Early Childhood Center	1st floor 1st floor	Work Room - Storage	2X4 Prism Rec 2L 32W T8 Vanity LED 9W A	1	59 9	RT, 4' 10.5W DE LED 2L LED 9W A19 Replacement	1	21 10	0.2	0.1	+
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	0.0	0.0	t
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	I
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	Į
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	+
JH Early Childhood Center JH Early Childhood Center	1st floor	Library Classroom - 104	2X4 Prism Rec 3L 32W T8 8' Wrap BP 4L 32W T8	6	89 112	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 4L	6	32 42	0.5	0.2	+
JH Early Childhood Center JH Early Childhood Center	1st floor	Classroom - 104 Classroom - 104	8' Wrap BP 4L 32W 18 4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 4L RT, 4' 10.5W DE LED 2L	2	21	0.7	0.3	+
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	t
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	İ
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	Ţ
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	+
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	+
JH Early Childhood Center JH Early Childhood Center	1st floor 1st floor	Classroom - 101 Classroom - 101 - Exit Door	2X4 Prism Rec 3L 32W T8 DS BB Exit Sign LED	1	90	RT, 4' 10.5W DE LED 3L BB No Action - Existing Efficient/LED Fixture	1	32	0.1	0.0	+
JH Early Childhood Center	1st floor	Classroom - 101 - Exit Door	2X4 Prism Sur 3L 32W T8	1	89	RT, 4' 10.5W DE LED 3L	1	32	0.0	0.0	$\dagger$
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	Ť
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	T
JH Early Cillionoou Center	230 11001	пер	4' Wrap BP 2L 32W T8								



Building  JH Early Childhood Center	Ist floor  1st floor 1st f	Room  Hallway by Laundry Hallway by Laundry Hallway - Breeze Way Mestroom (Private) Restroom (Private) Restroom (Private) Storage Closet Janitor Closet Laundry Hallway Hallway Hallway Hallway Hallway Hallway Hallway Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 127 Classroom - 128 Classroom - 128 Classroom - 128 Classroom - 122 Classroom - 124 Classroom - 122 Classroom - 123 Classroom - 124 Classroom - 125 Classroom - 126 Classroom - 127 Classroom - 127 Classroom - 128 Classroom - 128 Classroom - 120 Classroom - 120 Classroom - 120 Classroom - 121 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 123 Classroom - 124 Classroom - 125 Classroom - 126 Classroom - 126 Classroom - 127 Classroom - 127 Classroom - 128 Classr	Existing F  Extract  Extraction  Extractio	Quantity  3 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Input Wattage 89 0 0 89 0 89 9 0 89 9 89 89 89 89 89 90 9 9 9 9	ECM  RT, 4' 10.5W DE LED 3L  No Action - Emergency Use Only  RT, 4' 10.5W DE LED 3L  No Action - Emergency Use Only  RT, 4' 10.5W DE LED 3L  NO Action - Emergency Use Only  RT, 4' 10.5W DE LED 3L  R	Quantity  3 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Input Wattage 32 0 32 0 32 2 1 21 21 21 21 32 32 32 32 32 32 10 32 32 32 32 10 32 32 32 32 32 32 32 32 32 32 32 32 32	Pre 0.3 0.0 0.0 0.1 0.1 0.1 0.1 0.0 0.0 0.1 0.1	Post 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Sav
JH Early Childhood Center JH Early Childhood Center	1st floor 1st fl	Hallway by Laundry Hallway by Laundry Hallway Percex Way Hallway - Breeze Way Restroom (Private) Restroom (Private) Storage Closet Janitor Closet Clasroom - 126 Clasroom - 126 Clasroom - 126 Clasroom - 128 Clasroom - 128 Clasroom - 128 Clasroom - 124 Clasroom - 124 Clasroom - 124 Clasroom - 122 Clasroom - 120 Clasroom -	2X4 D/I Rec 31 32W T8 Emergency Fixture 2X4 D/I Rec 31 32W T8 Emergency Fixture 2X4 P/IR Rec 31 32W T8 Emergency Fixture 2X4 P/IR Rec 31 32W T8 2X4 P/IR Rec 31 32W T8 2X4 P/IR Rec 31 32W T8 2X4 P/IR Rec 31 32W T8 2X4 D/I Rec 31 32W T8 2X4 D/I Rec 31 32W T8 2X4 D/I Rec 31 32W T8 2X4 D/I Rec 31 32W T8 2X4 D/I Rec 31 32W T8 2X4 D/I Rec 31 32W T8 2X4 D/I Rec 31 32W T8 2X4 D/I Rec 31 32W T8 2X4 D/I Rec 31 32W T8 2X4 D/I Rec 31 32W T8 2X4 D/I Rec 31 32W T8 2X4 D/I Rec 31 32W T8 2X4 P/IR Rec 31 32W T8 2X4 P/IR Rec 31 32W T8 2X4 D/I Rec 31 T8 2X4 D/I R	3 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	89 0 89 0 89 89 89 59 89 61 0 0 89 90 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	RT, 4' 10.5W DE LED 3L  NO ACTION - Emergency Use Only  RT, 4' 10.5W DE LED 3L  NO ACTION - Emergency Use Only  RT, 4' 10.5W DE LED 3L  RT, 4' 10.5W D	3 1 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	32 0 32 32 32 32 21 21 32 28 0 32 32 32 32 32 32 32 32 32 32 32 32 32	0.3 0.0 0.4 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.1 0.0 0.0	0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
JH Early Childhood Center JH Early Childhood Center	1st floor 1st fl	Hallway by Laundry Hallway - Breeze Way Hallway - Breeze Way Restroom (Private) Restroom (Private) Storage (Joset Janitor Closet Laundry Hallway Hallway Hallway Hallway Hallway Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 127 Classroom - 128 Classroom - 128 Classroom - 128 Classroom - 128 Classroom - 128 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 120 Classroom - 120 Classroom - 120 Classroom - 120 Classroom - 120 Classroom - 121 Classroom - 122 Classroom - 123 Classroom - 124 Classroom - 125 Classroom - 125 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 127 Classroom - 127 Classroom - 128 Classroom - 1	Emergency Fixture 2x4 D/I Rec 3L 32W T8 Emergency Fixture 2x4 Prism Rec 3L 32W T8 2x4 Prism Rec 3L 32W T8 4" Wrap BP 2L 32W T8 2x4 Prism Rec 3L 32W T8 2x4 Prism Rec 3L 32W T8 2x4 D/I Rec 3L 32W T8 2	1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 89 89 59 59 89 89 61 0 89 90 9 3 0 89 89 89 90 9 9 9 9 9 9 9 9 9 9 9 9 9	No Action - Emergency Use Only RT, 4" 10.5W DE LED 3L RT, 4" 10.5W D	1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 32 0 32 21 32 32 32 32 32 32 32 32 32 32 32 32 32	0.0 0.4 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0	0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0	
JH Early Childhood Center JH Early Childhood Center	1st floor 1st fl	Hallway - Breeze Way Restroom (Private) Restroom (Private) Restroom (Private) Storage Gloset Janitor Closet Laundry Hallway Hallway Hallway Hallway Vestibule Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 127 Classroom - 128 Classroom - 128 Classroom - 128 Classroom - 128 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 120 Classroom - 120 Classroom - 120 Classroom - 121 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 123 Classroom - 124 Classroom - 125 Classroom - 125 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 127 Classroom - 128 Classroom - 128 Classroom - 128 Classroom - 129 Classroom - 120	Emergency Fixture 2X4 Prism Rec 31 32W T8 4" Wrap BP 21 32W T8 4" Wrap BP 21 32W T8 4" Wrap BP 21 32W T8 2X4 Prism Rec 31 32W T8 2X4 Drism Rec 31 32W T8 2X4 Drism Rec 31 32W T8 2X4 Drism Rec 31 32W T8 2X4 Drism Rec 31 32W T8 2X4 Drism Rec 31 32W T8 2X4 Drism Rec 31 32W T8 2X4 Drism Rec 31 32W T8 2X4 Drism Rec 31 32W T8 2X4 Drism Rec 31 32W T8 2X4 Drism Rec 31 32W T8 2X4 Prism Rec 31 32W T8 2X4 Prism Rec 31 32W T8 2X4 Drism Rec 31 32W	1 1 1 1 1 1 1 1 4 4 1 1 1 1 1 1 1 1 2 2 1 1 1 1	0 89 89 59 89 61 0 89 90 90 9 3 3 0 9 9 9 9 9 9 9 9 9 9 9 9	No Action - Emergency Use Only RT, 4*10.5W DE LED 31. RT, 4*10.5W DE LED 31. RT, 4*10.5W DE LED 31. RT, 4*10.5W DE LED 31. RT, 4*10.5W DE LED 32. RT, 4*10.5W DE LED 32. RT, 4*10.5W DE LED 32. RT, 4*10.5W DE LED 34. RT, 4*10.5W DE LED 34. No Action - Emergency Use Only RT, 4*10.5W DE LED 31. RT, 4*	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 32 32 32 32 32 32 32 32 32 32 32 32 32	0.0 0.1 0.1 0.1 0.1 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
JH Early Childhood Center JH Early Childhood Center	1st floor 1st fl	Restroom (Private) Restroom (Private) Storage Gloset Janitor Closet Laundry Hallway Hallway Hallway Hallway Hallway Hallway Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 128 Classroom - 128 Classroom - 128 Classroom - 128 Classroom - 129 Classroom - 120 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 125 Classroom - 126 Classroom - 127 Classroom - 127 Classroom - 128 Classroom - 129 Classroom - 129 Classroom - 120 Classroom - 121 Classroom - 122 Classroom - 122 Classroom - 126 Classroom - 127 Classroom - 127 Classroom - 128 Classroom - 128 Classroom - 129 Classroom - 120 Cl	2X4 Prism Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8 4" Wrap BP 2L 32W T8 4" Wrap BP 2L 32W T8 4" Wrap BP 2L 32W T8 2X4 Prism Rec 3L 32W T8 2X4 D/1 Rec 3L 32W T8 2X4 D/1 Rec 3L 32W T8 2X4 D/1 Rec 3L 32W T8 2X4 D/1 Rec 3L 32W T8 2X4 D/1 Rec 3L 32W T8 2X4 D/1 Rec 3L 32W T8 2X4 D/1 Rec 3L 32W T8 2X4 D/1 Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8 2X4 D/1 Rec 3	1 1 1 1 1 1 4 1 1 1 1 1 1 0 8 1 1 1 1 2 2 1 1 1 0 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1	89 89 59 59 89 61 0 89 90 9 3 0 89 99 99 99 99 99 99 99 99 99 99 99 99	RT, 4* 10.5W DE LED 3L  RT, 4* 10.5W DE LED 3L  RT, 4* 10.5W DE LED 2L  RT, 4* 10.5W DE LED 2L  RT, 4* 10.5W DE LED 3L  RT, 4* 10.5W DE LED 3L  RT, 4* 10.5W DE LED 3L  RT, 4* 10.5W DE LED 3L  RT, 4* 10.5W DE LED 3L  RT, 4* 10.5W DE LED 3L  RT, 2* TWD BE LED 3L  RT, 4* 10.5W DE LED 3L  RT, 4* 10.5W DE LED 3L  LED 9W AL19 Replacement  NO Action - Existing Efficient/LED Fixture  NO Action - Existing Efficient/LED Fixture  NO Action - Existing Efficient/LED Fixture  NO Action - Existing Efficient/LED Fixture  NO Action - Substance State S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	32 32 32 21 21 32 32 32 32 32 32 32 32 32 32 32 32 32	0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0	
IH Early Childhood Center JH Early Childhood Center	1st floor 1st fl	Storage Closet Janitor Closet Laundry Hallway Hallway Hallway Hallway Hallway Vestibule Classroom -126 Classroom -126 Classroom -126 Classroom -126 Classroom -126 Classroom -126 Classroom -126 Classroom -128 Restroom Shared Storage Classroom -128 Classroom -128 Classroom -128 Classroom -128 Classroom -128 Classroom -124 Classroom -124 Classroom -125 Classroom -124 Classroom -126 Classroom -127 Classroom -127 Classroom -127 Classroom -128 Classroom -128 Classroom -129 Classroom -129 Classroom -129 Classroom -120 Classroom -120 Classroom -121 Classroom -121 Classroom -122 Classroom -122 Classroom -124 Classroom -125 Classroom -126 Classroom -127 Classroom -127 Classroom -128 Classroom -128 Classroom -128 Classroom -129 Classroom -129 Classroom -120	4' Wrap BP 21. 32W T8 4' Wrap BP 21. 32W T8 22A Prism Rec 31. 32W T8 22A F Prism Rec 31. 32W T8 22A D Prism Rec 31. 32W T8 22A D Prism Rec 31. 32W T8 22A D Prism Rec 31. 32W T8 22A D Prism Rec 31. 32W T8 22A D Prism Rec 31. 32W T8 22A D Prism Rec 31. 32W T8 22A Prism Rec 31. 32W T8 22A Prism Rec 31. 32W T8 22A Prism Rec 31. 32W T8 22A D Prism Rec 31. 32W T8 22A D Prism Rec 31. 32W T8 22A D Prism Rec 31. 32W T8 22A D Prism Rec 31. 32W T8 22A D Prism Rec 31. 32W T8 22A D Prism Rec 31. 32W T8 22A D Prism Rec 31. 32W T8 22A Prism Rec 31. 32W T8 22A Prism Rec 31. 32W T8 22A D Prism Rec	1 1 1 4 4 1 1 1 1 1 1 0 8 8 1 1 1 2 2 1 0 8 8 1 1 1 2 2 1 0 8 8 1 1 1 0 8 8 1 1 1 0 8 8 1 1 1 0 8 1 1 0 1 0	89 59 89 61 61 0 89 90 9 9 3 3 0 89 89 90 9 9 9 9 9 9 9 9 9 9 8 8 9 9 9 9	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L RT, 2' TWD EL LED 4L NO Action - Emergency Use Only RT, 4' 10.5W DE LED 3L LED 9W ALS Replacement NO Action - Esting Efficient/LED Fisture NO Action - Esting Efficient/LED Fisture NO Action - Esting Efficient/LED Fisture NO Action - Esting Efficient/LED Fisture NO Action - Esting Efficient/LED Fisture RT, 4' 10.5W DE LED 3L	1 1 1 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	32 21 32 32 32 32 32 32 32 30 31 30 32 32 32 32 32 32 32 32 32 32 32 32 32	0.1 0.1 0.1 0.4 0.0 0.1 0.0 0.1 0.0 0.0 0.0 0.1 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	00000000000000000000000000000000000000
JH Early Childhood Center JH Early Childhood Center	1st floor 1st fl	Janitor Closet  Laundry  Hallway  Hallway  Hallway  Hallway  Hallway  Vestibule  Classroom - 126  Classroom - 126  Classroom - 126  Classroom - 126  Classroom - 126  Classroom - 126  Classroom - 126  Classroom - 128  Classroom - 128  Classroom - 128  Classroom - 128  Classroom - 128  Classroom - 124  Classroom - 124  Classroom - 124  Classroom - 124  Classroom - 122  Classroom - 122  Classroom - 122  Classroom - 122  Classroom - 122  Classroom - 122  Classroom - 122  Classroom - 122  Classroom - 122  Classroom - 122  Classroom - 122  Classroom - 122  Classroom - 120  Classroom - 120  Classroom - 120  Classroom - 120  Classroom - 120  Classroom - 120  Classroom - 120  Classroom - 120  Classroom - 120  Classroom - 120  Classroom - 120  Classroom - 120  Classroom - 120  Classroom - 120  Classroom - 120  Classroom - 120  Classroom - 120  Classroom - 120  Connector Hallway Doors  Classroom Doors  Classroom Doors	4 Wirsp BP 21, 32W TB 2244 Prism Rec 31, 32W TB Decorative 41, 17W TB Emergency Fixture 2244 D/I Rec 31, 32W TB Decorative 41, 17W TB Emergency Fixture 2244 D/I Rec 31, 32W TB 2244 D/I Rec 31, 32W TB 2244 D/I Rec 31, 32W TB 2244 D/I Rec 31, 32W TB 2244 Prism Rec 31, 32W TB 2244 Prism Rec 31, 32W TB 2244 Prism Rec 31, 32W TB 2245 Prism Rec 31, 32W TB 2246 D/I Rec 31, 32W TB 2247 Prism Rec 31, 32W TB 2247 Prism Rec 31, 32W TB 2247 Prism Rec 31, 32W TB 2248 D/I Rec 31, 32W TB 2249 Prism Rec 31, 32W TB 2249 Prism Rec 31, 32W TB 2340 D/I Rec 31, 32W TB 2440 D/I Rec 31, 32W TB 2450 D/I Rec 31, 32W TB 2460 D/I Rec 31, 32W TB 2470	1 1 1 4 1 1 1 1 1 1 1 0 8 8 1 1 1 1 2 2 1 1 0 8 8 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	59 89 89 61 0 89 90 9 9 3 0 89 89 89 90 9 89 90 9 9 89 90 9 89 89 89 89 89 89 89 89 89 89 89 89 8	RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L RT, 2* 7W DE LED 4L NO Action - Emergency Use Only RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L LED 9W A19 Replacement NO Action - Emergency Use Only RT, 4* 10.5W DE LED 3L LED 9W A19 Replacement RT, 4* 10.5W DE LED 3L LED 9W A19 Replacement RT, 4* 10.5W DE LED 3L LED 9W A19 Replacement RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L LED 9W A19 Replacement RT, 4* 10.5W DE LED 3L RT, 4* 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21 32 32 28 0 32 32 32 10 3 3 3 3 3 2 32 32 10 3 3 2 32 32 32 10 3 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2	0.1 0.4 0.1 0.0 0.1 0.0 0.1 0.0 0.0 0.1 0.0 0.1 0.2 0.9 0.1 0.1 0.1 0.9 0.1 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.0	0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.1 0.0 0.0	00000000000000000000000000000000000000
JH Early Childhood Center JH Early Childhood Center	1st floor 1st fl	Laundry Hallway Hallway Hallway Hallway Hallway Vestibule Classroom -126 Classroom -126 Classroom -126 Classroom -126 Classroom -126 Classroom -126 Classroom -128 Classroom -128 Classroom -128 Classroom -128 Classroom -128 Classroom -128 Classroom -128 Classroom -122 Classroom -124 Classroom -124 Classroom -124 Classroom -124 Classroom -124 Classroom -124 Classroom -124 Classroom -124 Classroom -124 Classroom -124 Classroom -124 Classroom -125 Classroom -126 Classroom -127 Classroom -127 Classroom -127 Classroom -127 Classroom -128 Classroom -128 Classroom -129 Classroom -127 Classroom -128 Classroom -128 Classroom -129 Classroom -120 Classroom -121 Classroom -122 Classroom -122 Classroom -123 Classroom -124 Classroom -124 Classroom -125 Classroom -126 Classroom -126 Classroom -127 Classroom -128 Classroo	2X4 Prism Rec 3L 32W T8 2X4 D/I Rec 3L 32W T8 Decorative 4L 17W T8 Emergency Fixture 2X4 D/I Rec 3L 32W T8 ZX4 D/I Rec 3L 32W T8 ZX4 D/I Rec 3L 32W T8 ZX4 D/I Rec 3L 32W T8 ZX4 D/I Rec 3L 32W T8 ZX4 D/I Rec 3L 32W T8 ZX4 Prism Rec 3L 32W T8 ZX4 Prism Rec 3L 32W T8 ZX4 Prism Rec 3L 32W T8 ZX4 Prism Rec 3L 32W T8 ZX4 D/I Rec 3L 32	1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	89 89 61 0 89 90 9 3 3 0 89 90 90 90 90 90 90 90 90 90 90 90 90 90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L RT, 2' TWO ELED 4L NO ACLION - Emergency Use Only RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LE	1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	32 32 28 0 32 32 32 10 3 3 3 2 32 32 32 10 32 32 32 32 32 32 32 32 32 32 32 32 32	0.1 0.4 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.2 0.9 0.1 0.1 0.2 0.9 0.1 0.1 0.1 0.2 0.9 0.1 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.0	0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IH Early Childhood Center JH Early Childhood Center	1st floor 1st fl	Hallway Hallway Hallway Vestibule Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 128 Classroom - 128 Classroom - 128 Classroom - 128 Classroom - 128 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 126 Classroom - 127 Classroom - 127 Classroom - 128 Classroom - 129 Classroom - 129 Classroom - 129 Classroom - 120 Classroom - 120 Classroom - 121 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 124 Classroom - 125 Classroom - 126 Classroom - 127 Classroom - 127 Classroom - 128 Classroom - 128 Classroom - 129 Classroom - 129 Classroom - 120 Classroom -	204 D/J Rec 31.32W T8  Decorative 41.17W T8  Emergency Fixture 2244 D/J Rec 31.32W T8 2244 D/J Rec 31.32W T8 2245 D/J Rec 31.32W T8 2245 D/J Rec 31.32W T8 2246 Fixm Rec 31.32W T8 2247 Fixm Rec 31.32W T8 2247 Fixm Rec 31.32W T8 2247 Fixm Rec 31.32W T8 2247 Fixm Rec 31.32W T8 2247 D/J Rec 31.32W T8 2247 D/J Rec 31.32W T8 2247 D/J Rec 31.32W T8 2247 D/J Rec 31.32W T8 2247 D/J Rec 31.32W T8 2247 D/J Rec 31.32W T8 2247 Fixm Rec 31.32W T8 2	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	89 61 0 89 90 9 3 3 0 89 89 90 9 9 9 9 9 9 9 9 9 9 9 9 9 9	RT, 4* 10.5 W DE LED 3L  RT, 2* TWD ELED 3L  RT, 2* TWD ELED 3L  RT, 4* 10.5 W DE LED 3L  LED 9W ALSP Replacement  NO Action - Energy Efficient/LED Fixture  NO Action - Existing Efficient/LED Fixture  NO Action - Energy Use Only  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE	4 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 1	32 28 0 32 32 32 30 10 3 3 3 32 32 32 32 32 32 32 32 32 32 32	0.4 0.1 0.0 0.1 0.9 0.1 0.0 0.0 0.0 0.1 0.2 0.9 0.1 0.1 0.1 0.1 0.9 0.1	0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
JH Early Childhood Center JH Early Childhood Center	1st floor 1st fl	Hallway Hallway Hallway Vestibule Classroom -126 Classroom -126- Exterior Door Classroom -126- Exterior Door Classroom -126- Exterior Door Shared Storage Classroom -128 Classroom -128 Classroom -128 Classroom -128 Classroom -124 Classroom -124 Classroom -124 Classroom -124 Classroom -122 Classroom -123 Classroom -124 Classroom -125 Classroom -125 Classroom -126 Classroom -127 Classroom -127 Classroom -127 Classroom -128 Classroom -128 Classroom -129 Classroom -120 Cl	Emergency Fixture 2x4 D/I Rec 31.32W T8 2x4 D/I Rec 31.32W T8 DS 6" Rec Can LED 9W A Exit Sign LED Emergency Fixture 2x4 Prism Rec 31.32W T8 2x4 Prism Rec 31.32W T8 2x4 Prism Rec 31.32W T8 2x4 Prism Rec 31.32W T8 2x4 D/I	1 1 1 10 8 8 1 1 1 2 2 10 8 1 1 1 10 8 1 1 10 8 1 1 10 8 1 1 10 8 1 1 1 1	0 89 90 9 9 3 0 89 89 9 9 9 9 9 9 9 9 9 9 9	No Action - Emergency Use Only RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L LED SW AL9R Replacement No Action - Esting Efficient/LED Fisture No Action - Emergency Use Only RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L RT, 5' 10.5W DE LED 3L RT, 5' 10.5W DE LED 3L RT, 4' 10.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 32 32 10 3 0 32 32 32 10 32 10 32 32 10 32	0.0 0.1 0.9 0.1 0.0 0.0 0.1 0.2 0.9 0.1 0.1 0.9 0.1 0.1 0.9 0.1	0.0 0.0 0.3 0.1 0.0 0.0 0.0 0.1 0.3 0.1 0.0 0.3 0.1 0.0 0.3 0.1 0.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
JH Early Childhood Center JH Early Childhood Center	1st floor 1st fl	Vestibule Classroom - 126 Classroom - 126 Classroom - 126 - Exterior Door Classroom - 126 - Exterior Door Classroom - 126 - Exterior Door Classroom - 126 - Exterior Door Classroom - 128 - Exterior Door Classroom - 128 - Exterior Door Classroom - 128 - Exterior Door Classroom - 124 - Classroom - 124 Classroom - 124 - Classroom - 124 Classroom - 122 - Classroom - 122 Classroom - 122 - Classroom - 122 Classroom - 122 - Exterior Door Main Entrance Flag Pole Front Wall Parking Lot Hallway Door Connector Hallway Doors Classroom Doors Classroom Doors Classroom Doors	2X4 D/J Rec 31 32W T8  X4X D/J Rec 31 32W T8  S* Rec Can LED 9W A  Exit Sign LED  Emergency Fixture  2X4 Prism Rec 31 32W T8  X4X Prism Rec 31 32W T8  X4X D/J R	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	89 90 9 3 0 89 90 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	RT, 4* 10.5W DE LED 3L LED 9W ALS Replacement No Action - Existing Efficient/LED Fixture No Action - Exergency Use Only RT, 4* 10.5W DE LED 3L LED 9W ALS REPLACEMENT RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L LED 9W ALS REPLACEMENT RT, 4* 10.5W DE L	1 10 8 1 1 10 8 8 1 1 10 8 8 1 1 10 8 8 1 1 10 8 8 1 1 1 1	32 32 10 3 0 32 32 32 32 10 32 10 32 32 10	0.1 0.9 0.1 0.0 0.0 0.1 0.2 0.9 0.1 0.1 0.9 0.1 0.1 0.9 0.1	0.0 0.3 0.1 0.0 0.0 0.0 0.1 0.3 0.1 0.0 0.3 0.1 0.0 0.3 0.1 0.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
JH Early Childhood Center JH Early Childhood Center	1st floor 1st fl	Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 126 Classroom - 128 Classroom - 128 Classroom - 128 Classroom - 128 Classroom - 128 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 125 Classroom - 126 Classroom - 127 Classroom - 127 Classroom - 128 Classroom - 129 Classroom - 129 Classroom - 129 Classroom - 129 Classroom - 129 Classroom - 120 Classroom - 12	2M DJ/ Rec 3L 32W T8 DS 6* Rec Can 1ED 9W A Ext Sign 1ED Emergency Fixture 2X4 Prism Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8 2X4 D/ Rec 3L 32W T8 2X4 D/ Rec 3L 32W T8 2X4 D/ Rec 3L 32W T8 2X4 D/ Rec 3L 32W T8 2X4 D/ Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8 2X4 D/ Rec 3L 32W T8 2X4 D/ Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8 2X4 D/ Rec 3L 32W	10 8 1 1 1 2 10 8 1 1 10 8 8 1 1 10 8 1 10 10 8 1 10 10 10 10 10 10 10 10 10 10 10 10 1	90 9 3 0 89 89 90 9 9 9 89 90 9 9 9 9 9 9 9 9	RT, 4* 10.5W DE LED 3L LED 9W ALS Replacement No Action - Existing Efficient/LED Fixture No Action - Existing Efficient/LED Fixture No Action - Existing Efficient/LED Fixture No Action - Existing Efficient/LED SL RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L LED 9W ALS Replacement RT, 4* 10.5W DE LED 3L LED 9W ALS Replacement RT, 4* 10.5W DE LED 3L LED 9W ALS Replacement RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L LED 9W ALS Replacement RT, 4* 10.5W DE LED 3L LED 9W ALS Replacement RT, 4* 10.5W DE LED 3L LED 9W ALS Replacement NO ACTION - EXISTING Efficient/LED Fixture	10 8 1 1 1 2 10 8 1 10 8 1 1 10 8 1 10 8 1 10 8 1 10 8 10 10 10 10 10 10 10 10 10 10 10 10 10	32 10 3 0 32 32 32 10 32 32 10 32 32 10	0.9 0.1 0.0 0.0 0.1 0.2 0.9 0.1 0.1 0.9 0.1 0.1 0.9	0.3 0.1 0.0 0.0 0.0 0.1 0.3 0.1 0.0 0.3 0.1 0.0 0.3 0.1 0.0 0.3 0.1 0.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IH Early Childhood Center JH Early Childhood Center	1st floor 1st fl	Clastroom - 126 - Exterior Door Clastroom - 126 - Restroom Shared Storage Clastroom - 128 - Restroom Clastroom - 128 - Clastroom - 128 Clastroom - 128 - Clastroom - 128 Clastroom - 124 Clastroom - 124 Clastroom - 124 Clastroom - 124 Clastroom - 122 Clastroom - 122 Clastroom - 122 Clastroom - 122 Clastroom - 122 Clastroom - 122 Clastroom - 122 Clastroom - 122 Clastroom - 120 Clast	Exit Sign LED Emergency Fixture 224 Prism Rec 31 32W T8 224 Prism Rec 31 32W T8 224 Prism Rec 31 32W T8 224 D J Rec 31 32W T8 224 D J Rec 31 32W T8 224 D J Rec 31 32W T8 224 D J Rec 31 32W T8 224 D J Rec 31 32W T8 224 D J Rec 31 32W T8 224 Prism Rec 31 32W T8 224 Prism Rec 31 32W T8 224 D J Rec 31 32W T8 224 D J Rec 31 32W T8 224 D J Rec 31 32W T8 224 D J Rec 31 32W T8 224 D J Rec 31 32W T8 224 D J Rec 31 32W T8 225 D J Rec 31 32W T8 226 D J Rec 31 32W T8 227 D J Rec 31 32W T8 228 D J Rec 31 32W T8 228 D J Rec 31 32W T8 229 D J Rec 31 32W T8 229 D J Rec 31 32W T8 220 D J Rec 31 32W T8 22	1 1 1 2 10 8 1 10 8 1 1 2 10 8 1 1 2 10 8 8 1 1 10 8 8 1 1 10 8 8 1 10 10 8 10 10 10 10 10 10 10 10 10 10 10 10 10	3 0 89 90 9 9 89 90 9 89 90 9 3 89	No Action - Existing Efficient/LED Fixture No Action - Emergency Use Only RT, 4' 10.5 WD ELED 3L RT, 4' 10.5 WD ELED 3L RT, 4' 10.5 WD ELED 3L LED 9W ALS Replacement RT, 4' 10.5 WD ELED 3L LED 9W ALS Replacement RT, 4' 10.5 WD ELED 3L LED 9W ALS Replacement RT, 4' 10.5 WD ELED 3L LED 9W ALS Replacement RT, 4' 10.5 WD ELED 3L LED 9W ALS REPLACEMENT RT, 4' 10.5 WD ELED 3L RT, 4' 10.5 WD ELED 3L LED 9W ALS Replacement NT, 4' 10.5 WD ELED 3L LED 9W ALS Replacement NO Action - Existing Efficient/LED Fixture	1 1 1 2 10 8 1 10 8 1 10 8 1 10 8 1 10 8 1 10 8 10 8 10 8 10 10 10 10 10 10 10 10 10 10 10 10 10	3 0 32 32 32 10 32 10 32 32 10 32 32 10	0.0 0.0 0.1 0.2 0.9 0.1 0.1 0.9 0.1 0.1 0.2 0.9	0.0 0.0 0.0 0.1 0.3 0.1 0.0 0.3 0.1 0.0 0.1 0.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IH Early Childhood Center JH Early Childhood Center	1st floor 1st fl	Classroom -126 Classroom -126 - Restroom Shared Storage Classroom -128 Classroom -128 Classroom -128 Classroom -124 Classroom -124 Classroom -124 Classroom -124 Classroom -124 Classroom -124 Classroom -125 Classroom -125 Classroom -125 Classroom -125 Classroom -127 Classroom -127 Classroom -128 Classroom -129 Classroom -129 Classroom -129 Classroom -120 Classroom	Emergency Fixture 2X4 Prism Rec 31.32W T8 2X4 Prism Rec 31.32W T8 2X4 Drism Rec 31.32W T8 2X4 Drism Rec 31.32W T8 DX4 Drism Rec 31.32W T8 DX4 Drism Rec 31.32W T8 DX4 Drism Rec 31.32W T8 DX4 Drism Rec 31.32W T8 DX4 Drism Rec 31.32W T8 DX4 Drism Rec 31.32W T8 DX4 Drism Rec 31.32W T8 DX4 Drism Rec 31.32W T8 DX4 Drism Rec 31.32W T8 DX4 Drism Rec 31.32W T8 DX4 Drism Rec 31.32W T8 DX6 Drism Rec 31.32W T8 DX7 Drism Re	1 1 2 10 8 1 10 8 1 1 2 10 8 1 1 1 2 10 8 1 1 1 10 8 1 1 10 10 10 10 10 10 10 10 10 10 10 10	0 89 89 90 9 89 90 9 89 89 89 90 9	No Action - Emergency Use Only RT, 4' 10.5 W DE LED 3L	1 1 2 10 8 1 10 8 1 10 8 1 10 8 1 10 8 1	0 32 32 32 10 32 32 10 32 32 32 32 32	0.0 0.1 0.2 0.9 0.1 0.1 0.9 0.1 0.1 0.2 0.9	0.0 0.0 0.1 0.3 0.1 0.0 0.3 0.1 0.0 0.1 0.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
JH Early Childhood Center JH Early Childhood Center	1st floor 1st fl	Classroom - 126 - Restroom Shared Storage Classroom - 128 Classroom - 128 Classroom - 128 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 120 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 125 Clas	2X4 Prism Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8 2X4 D/I Rec 3L 32W T8 5X 4D /I Rec 3L 32W T8 5X 6F Rec Can LED 9W A 2X4 Prism Rec 3L 32W T8 DS 6F Rec Can LED 9W A 2X4 Prism Rec 3L 32W T8 DS 6F Rec Can LED 9W A 2X4 Prism Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8 2X4 D/I Rec 3L 32W T8 2X4 D/I Rec 3L 32W T8 2X4 D/I Rec 3L 32W T8 2X4 Prism Rec 3L 3	1 2 10 8 1 1 10 10 8 1 1 10 10 8 1 1 1 1 1	89 89 90 9 89 90 9 89 89 90 9 89 89 89 89	RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L LED 9W A19 Replacement RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L RT, 5* 10.5W DE LED 3L	1 2 10 8 1 1 2 10 8 8 1 1 2 10 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	32 32 32 10 32 32 10 32 32 32 32 32 32	0.1 0.2 0.9 0.1 0.1 0.9 0.1 0.1 0.2 0.9	0.0 0.1 0.3 0.1 0.0 0.3 0.1 0.0 0.1 0.0 0.1 0.0	0 0 0 0 0 0 0 0 0 0 0
IH Early Childhood Center IH Early Childhood Center	1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor Exterior	Shared Storage Classroom - 128 Classroom - 128 Classroom - 128 Classroom - 128 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 126 Classroom - 127 Classroom - 128 Classroom - 129 Classroom - 129 Classroom - 120	2X4 D/J Rec 31 32W T8 DS 6" Rec Can LED 9W A 2X4 Prism Rec 31 32W T8 2X4 D/J Rec 31 32W T8 2X4 D/J Rec 31 32W T8 2X4 D/J Rec 31 32W T8 2X4 Prism Rec 31 32W T8 2X4 Prism Rec 31 32W T8 2X4 Prism Rec 31 32W T8 2X4 D/J Rec 31 32W T8 2X4 D/J Rec 31 32W T8 DS 6" Rec Can LED 9W A Ext Sign LED 2X4 Prism Rec 31 32W T8 None Existing None Existing None Existing None Existing None Existing	10 8 1 10 8 1 2 10 8 1 2 10 8 1 1 0 0 0	90 9 89 90 9 89 89 90 9	RT, 4* 10.5W DE LED 3L LED 9W A18 Replacement RT, 4* 10.5W DE LED 3L LED 9W A18 Replacement RT, 4* 10.5W DE LED 3L LED 9W A19 Replacement RT, 4* 10.5W DE LED 3L LED 9W A19 Replacement RT, 4* 10.5W DE LED 3L RT, 4* 10.5W DE LED 3L LED 9W A19 Replacement RT, 4* 10.5W DE LED 3L LED 9W A19 Replacement NO Action - Existing Efficient/LED Fixture	10 8 1 10 8 1 2 10 8	32 32 10 32 32 10 32 32 32 32 32	0.2 0.9 0.1 0.1 0.9 0.1 0.1 0.2 0.9	0.1 0.3 0.1 0.0 0.3 0.1 0.0 0.1 0.0	0 0 0 0 0 0 0 0 0 0
JH Early Childhood Center JH Early Childhood Center	1st floor 1st fl	Classroom - 128 - Restroom Classroom - 124 - Restroom Classroom - 124 - Classroom - 124 Classroom - 124 - Classroom - 124 Classroom - 124 - Restroom Shared Storage Classroom - 122 - Exit Door Classroom - 122 - Exit Door Classroom - 122 - Exit Door Classroom - 122 - Restroom Main Entrance Flag Pole Front Wall Parking Lot Halliway Door Connector Hallway Doors Classroom Doors Classroom Doors	6" Rec Can LED 9W A 2X4 Prism Rec 31.32W T8 2X4 D/1 Rec 31.32W T8 DS 6" Rec Can LED 9W A 2X4 Prism Rec 31.32W T8 2X4 Prism Rec 31.32W T8 2X4 Prism Rec 31.32W T8 2X4 D/1 Rec 31.32W T8 2X4 D/1 Rec 31.32W T8 2X4 D/1 Rec 31.32W T8 2X4 D/1 Rec 31.32W T8 None Existing None Existing None Existing None Existing None Existing None Existing None Existing None Existing None Existing None Existing None Existing None Existing None Existing	8 1 10 8 1 2 10 8 1 1 1 1 0	9 89 90 9 89 89 90 9	ED 9W A19 Replacement RT, 4*10.5W DE LED 31. RT, 4*10.5W DE LED 31. ED 9W A19 Replacement RT, 4*10.5W DE LED 31. RT, 4*10.5W DE LED 31. RT, 4*10.5W DE LED 31. ED 9W A19 Replacement No Action - Existing Efficient/LED Fixture	8 1 1 10 8 1 1 2 10 8 1 1	10 32 32 10 32 32 32 32	0.1 0.9 0.1 0.1 0.1 0.2 0.9	0.1 0.0 0.3 0.1 0.0 0.1 0.3 0.1	0 0 0 0 0 0
JH Early Childhood Center JH Early Childhood Center	1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor Exterior	Classroom - 128 - Restroom Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 124 Classroom - 125 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 124 Classroom - 125 Classroom - 126 Feront Wall Parking Lot Hallway Door Connector Hallway Doors Classroom Doors Classroom Doors Classroom Doors	2x4 Prism Rec 3L 32W TB 2x4 D/I Rec 3L 32W TB DS 6" Rec Can LED 9W A 2x4 Prism Rec 3L 32W TB 2x4 Prism Rec 3L 32W TB 2x4 Prism Rec 3L 32W TB 2x4 D/I Rec 3L 32W TB 2x4 D/I Rec 3L 32W TB 2x4 D/I Rec 3L 32W TB 2x4 D/I Rec 3L 32W TB 2x4 Prism Rec 3L 32W TB None Existing None Existing None Existing Wall Pack MH 400W Canopy LED 10W	1 10 8 11 10 8 11 10 10 10 10 10 10 10 10 10 10 10 10	89 90 9 89 89 90 9	RT, 4* 10.5W DE LED 3L  LED 9W A18 Replacement RT, 4* 10.5W DE LED 3L  LED 9W A18 Replacement RT, 4* 10.5W DE LED 3L  RT, 4* 10.5W DE LED 3L  RT, 4* 10.5W DE LED 3L  ED 9W A19 Replacement No. Action - Existing Efficient/LED Fixture	1 10 8 1 2 10 8 1	32 32 10 32 32 32 32	0.1 0.9 0.1 0.1 0.2 0.9 0.1	0.0 0.3 0.1 0.0 0.1 0.3 0.1	0 0 0 0 0
JH Early Childhood Center JH Early Childhood Center	1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor Exterior	Classroom - 124 Classroom - 124 Classroom - 124- Restroom Shared Storage Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 122- Restroom Main Entrance Flag Pole Front Wall Parking Lot Hallway Door Connector Hallway Doors Classroom Doors Classroom Doors	2X4 D/J Rec 3L 32W T8 DS 6* Rec Can LED 9W A 2X4 Prism Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8 2X4 D/J Rec 3L 32W T8 2X4 D/J Rec 3L 32W T8 DS 6* Rec Can LED 9W A Exit Sign LED 2X4 Prism Rec 3L 32W T8 None Existing None Existing Wall Pack MH 400W Canopy LED 10W	10 8 1 2 10 8 1 1 0	90 9 89 89 90 9 3	RT, 4° 10.5W DE LED 3L  LED 9W A19 Replacement RT, 4° 10.5W DE LED 3L RT, 4° 10.5W DE LED 3L RT, 4° 10.5W DE LED 3L LED 9W A19 Replacement No Action - Existing Efficient/LED Fixture	10 8 1 2 10 8	32 10 32 32 32 32	0.9 0.1 0.1 0.2 0.9	0.3 0.1 0.0 0.1 0.3 0.1	0 0 0 0
JH Early Childhood Center JH Early Childhood Center	1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 2st floor Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior	Classroom - 124 - Restroom Shared Storage Classroom - 122 Classroom - 122 Classroom - 122 Classroom - 124 - Exit Door Classroom - 124 - Exit Door Classroom - 125 - Restroom Main Entrance Flag Pole Front Wall Parking Lot Hallway Door Connector Hallway Doors Classroom Doors Classroom Doors	2X4 Prism Rec 31. 32W T8 2X4 Prism Rec 31. 32W T8 2X4 D/I Rec 31. 32W T8 DS 6° Rec Can LED SW A Ext Sign LED 2X4 Prism Rec 31. 32W T8 None Existing None Existing None Existing Can be Comparated the Comparation of the Compa	1 2 10 8 1 1 1 0 0 0	89 89 90 9 3 89	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L LED 9W A19 Replacement No Action - Existing Efficient/LED Fixture	1 2 10 8 1	32 32 32 10	0.1 0.2 0.9 0.1	0.0 0.1 0.3 0.1	0 0
JH Early Childhood Center JH Early Childhood Center	1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior	Shared Storage Classroom - 122 Classroom - 122 Classroom - 122 - Exit Door Classroom - 122 - Restroom Main Entrance Flag Pole Front Wall Parking Lot Hallway Door Connector Hallway Doors Classroom Doors Classroom Doors	2X4 Prism Rec 31.32W T8 2X4 D/I Rec 31.32W T8 DS 6" Rec Can LED 9W A Exit Sign LED 2X4 Prism Rec 31.32W T8 None Existing None Existing Wall Pack MH 400W Canopy LED 10W	2 10 8 1 1 0	89 90 9 3 89	RT, 4 <sup>1</sup> 10.5W DE LED 3L RT, 4 <sup>1</sup> 10.5W DE LED 3L LED 9W A19 Replacement No Action - Existing Efficient/LED Fixture	2 10 8 1	32 32 10	0.2 0.9 0.1	0.1 0.3 0.1	0
JH Early Childhood Center  JH Early Childhood Center	1st floor 1st floor 1st floor 1st floor 1st floor Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior	Classroom - 122 Classroom - 122 Classroom - 122 - Exit Door Classroom - 122 - Restroom Main Entrance Flag Pole Front Wall Parking Lot Hallway Door Connector Hallway Doors Classroom Doors Classroom Doors	2X4 D/I Rec 3L 32W T8 DS 6" Rec Can LED 9W A Exit Sign LED 2X4 Prism Rec 3L 32W T8 None Existing None Existing Wall Pack MH 400W Canopy LED 10W	10 8 1 1 0	90 9 3 89	RT, 4' 10.5W DE LED 3L LED 9W A19 Replacement No Action - Existing Efficient/LED Fixture	10 8 1	32 10	0.9 0.1	0.3 0.1	0
JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center	1st floor 1st floor Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior	Classroom - 122 - Exit Door Classroom - 122 - Restroom Main Entrance Flag Pole Front Wall Parking Lot Hallway Door Connector Hallway Doors Classroom Doors Classroom Doors	Exit Sign LED 2X4 Prism Rec 3L 32W T8 None Existing Wall Pack MH 400W Canopy LED 10W	1 1 0 0	3 89	No Action - Existing Efficient/LED Fixture	1				-
JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center	1st floor Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior	Classroom - 122 - Restroom Main Entrance Flag Pole Front Wall Parking Lot Hallway Door Connector Hallway Doors Classroom Doors Classroom Doors	2X4 Prism Rec 3L 32W T8 None Existing None Existing Wall Pack MH 400W Canopy LED 10W	1 0 0	89			3		0.0	
JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center	Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior	Main Entrance Flag Pole Front Wall Parking Lot Hallway Door Connector Hallway Doors Classroom Doors Classroom Doors	None Existing None Existing Wall Pack MH 400W Canopy LED 10W	0		RT. 4' 10 5W DE LED 31		22	0.0		_
JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center	Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior Exterior	Flag Pole Front Wall Parking Lot Hallway Door Connector Hallway Doors Classroom Doors Classroom Doors	None Existing Wall Pack MH 400W Canopy LED 10W	0	0	RT, 4' 10.5W DE LED 3L No Action	0	32 0	0.1	0.0	0
JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center	Exterior Exterior Exterior Exterior Exterior Exterior Exterior	Hallway Door Connector Hallway Doors Classroom Doors Classroom Doors	Canopy LED 10W		0	No Action	0	0	0.0	0.0	
JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center	Exterior Exterior Exterior Exterior Exterior Exterior	Connector Hallway Doors Classroom Doors Classroom Doors		1	458	Wall Pack LED FT TWX 6.9 kLm PC	1	54	0.5	0.1	(
JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center	Exterior Exterior Exterior Exterior	Classroom Doors Classroom Doors	Wall Pack LED 46W BB	2	10 46	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	2	10 46	0.0	0.0	-
JH Early Childhood Center  JH Early Childhood Center  JH Early Childhood Center  JH Early Childhood Center  JH Early Childhood Center  JH Early Childhood Center	Exterior Exterior Exterior		Vandal Proof LED 20W Corn Cob	4	20	No Action - Existing Efficient/LED Fixture	4	20	0.1	0.1	
JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center JH Early Childhood Center	Exterior Exterior		Vandal Proof LED 25W BB	2	25	No Action - Existing Efficient/LED Fixture	2	25	0.1	0.1	
JH Early Childhood Center  JH Early Childhood Center  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	╄
JH Early Childhood Center JH Early Childhood Center		Hallway Door Classroom Doors	Vandal Proof LED 25W BB Vandal Proof LED 25W	4	25 25	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	4	25 25	0.0	0.0	
	Exterior	Classroom Doors	Vandal Proof LED 25W BB	2	25	No Action - Existing Efficient/LED Fixture	2	25	0.1	0.1	
IH Farly 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	
	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	╀
JH Early Childhood Center JH Early Childhood Center	Exterior Exterior	Hallway Door / Wall Hallway Door	Wall Pack LED 14W Wall Pack LED 14W	1 1	14	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	1 1	14	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	$\top$
JH Early Childhood Center	Exterior	Classroom Doors	Wall Pack LED 24W Corn Cob	1	24	Wall Pack LED FT TWX 5 kLm PC	1	36	0.0	0.0	
JH Early Childhood Center JH Early Childhood Center	Exterior Exterior	Multi-Purpose - Connector Doors Multi-Purpose - Wall	Wall Pack LED 9W A Wall Pack LED 24W Corn Cob	1	9 24	Canopy LED 2.1 kLm FA Wall Pack LED FT TWX 5 kLm PC	1	15 36	0.0	0.0	⊬
JH Early Childhood Center  JH Early Childhood Center	Exterior	Multi-Purpose - Wali	Wall Pack HPS 70W	1	95	Wall Pack LED FT TWX 1.6 kLm PC	1	11	0.0	0.0	╁
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	
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	-
Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor 1st floor	Visitor Entrance Vestibule Open Office	Decorative LED 16W A 2x2 Flat Panel Rec LED 39W	9	16 39	LED 9W A19 Replacement 2L No Action - Existing Efficient/LED Fixture	9	19 39	0.0	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	
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	-
Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor 1st floor	Private Office - 14003 Conference Room	2x2 Flat Panel Rec LED 39W 2x2 Flat Panel Rec LED 39W	4	39 39	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	4	39 39	0.2	0.2	
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	0.2	0.3	+
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	
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	╄
Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor 1st floor	Work Room - Restroom Hallway by Front Office	2x2 Flat Panel Rec LED 39W 2X2 Prism Rec 4L T8	3	39 61	No Action - Existing Efficient/LED Fixture RT, 2' 7W DE LED 2L, 2x2 Refl Kit	3	39 14	0.0	0.0	⊬
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	
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	
Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor 1st floor	Hallway Hallway	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8 BB	7	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L BB	5 7	21	0.3	0.1	╁
Field Kindley High School & Clinic	1st floor	Hallway - Case	1.5' Strip LED 15W	8	15	No Action - Existing Efficient/LED Fixture	8	15	0.4	0.1	+
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	
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	╀
Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor 1st floor	Stair / Main Entrance Stair / Main Entrance	Decorative LED 16W A Decorative LED 16W A	1	16 16	LED 9W A19 Replacement 2L LED 9W A19 Replacement 2L	1	19 19	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	
Field Kindley High School & Clinic	1st floor	Classroom - 101 - IT Closet	4' Strip LED 25W	1 6	25 48	No Action - Existing Efficient/LED Fixture	1	25	0.0	0.0	$\vdash$
Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor 1st floor	Classroom - 102 Classroom - 102 - Storage Closet	2X4 Flat Panel Rec LED 48W 2X4 Flat Panel Rec LED 48W	6	48	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	6 1	48	0.3	0.3	╁
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	Γ
ield 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	$\Box$
rield Kindley High School & Clinic	1st floor 1st floor	Classroom - 104 Stairs	2X4 Flat Panel Rec LED 48W 4' Wrap BP 2L 32W T8	6	48 59	No Action - Existing Efficient/LED Fixture RT, 4' 10.5W DE LED 2L	6	48 21	0.3	0.3	╀
Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor	Stairs	Need to Add Exit Sign	1	0	No Action	1	0	0.1	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	
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	╀
Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor 1st floor	Lobby - 115 Lobby - 115 - Cove	2X4 Prism Rec 2L 32W T8 BB 4' Strip BP 1L	6	59 43	RT, 4' 10.5W DE LED 2L BB RT, 4' 10.5W DE LED 1L	6	21 11	0.1	0.0	+
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	土
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	F
Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor 1st floor	Hallway by Entrance - 120 Vestibule by Stairs	2X4 Prism Rec 2L 32W T8 4' Wrap BP 2L 32W T8	2	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	2	21	0.5	0.2	╁
Field Kindley High School & Clinic	1st floor	Odd Stair by CR C2	1x2 Prism Rec 2L	1	59	RT, 2' 7W DE LED 2L	1	14	0.1	0.0	+
ield 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	
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	F
Field Kindley High School & Clinic	1st floor 2nd floor	Classroom - C2 - Storage Closet	2X4 Par Rec 3L 32W T8 2X4 Par Rec 3L 32W T8	1 15	89 89	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	1 15	32 32	0.1 1.3	0.0	⊬
Field Kindley High School & Clinic Field Kindley High School & Clinic	2nd floor 2nd floor	Classroom - Computer Lab - 14212 Classroom - Computer Lab - 14213	2X4 Par Rec 3L 32W 18 2X4 Par Rec 2L 32W T8	16	59	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L	16	21	0.9	0.5	+
Field Kindley High School & Clinic	2nd floor	Classroom - Board	8' Wall Bracket BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	
ield Kindley High School & Clinic	2nd floor	Classroom - Board	4' Wall Bracket BP 1L 32W T8	2	31	RT, 4' 10.5W DE LED 1L	2	11	0.1	0.0	
Field Kindley High School & Clinic Field Kindley High School & Clinic	2nd floor 2nd floor	Classroom - Maker Space - 14214 Classroom - Maker Space - Board	2X4 Par Rec 2L 32W T8 8' Wall Bracket BP 2L 32W T8	24	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	24	21	1.4 0.1	0.5	╀
Field Kindley High School & Clinic	2nd floor 2nd floor	Classroom - Maker Space - Board Classroom - Maker Space - Board	4' Wall Bracket BP 2L 32W T8	1	31	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 1L	1	11	0.1	0.0	+
Field Kindley High School & Clinic	1st floor	Storage Closet - in Hallway	2X4 Flat Panel Rec LED 48W	1	48	No Action - Existing Efficient/LED Fixture	1	48	0.0	0.0	╆
Field Kindley High School & Clinic	1st floor	Elevator Cab	Rec Can LED 2W R12	4	2	No Action - Existing Efficient/LED Fixture	4	2	0.0	0.0	
Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor 1st floor	Restroom - Boys School Store Entrance	2X4 Prism Rec 4L 32W T8 8' Wrap BP 4L 32W T8	4	112 112	RT, 4' 10.5W DE LED 4L RT, 4' 10.5W DE LED 4L	1	42	0.4	0.2	╀



Building Field Kindley High School & Clinic Field Kindley High School & Clinic Field Kindley High School & Clinic Field Kindley High School & Clinic Field Kindley High School & Clinic Field Kindley High School & Clinic Field Kindley High School & Clinic Field Kindley High School & Clinic	Floor 1st floor	Room School Store Entrance	Existing I	Quantity	Input Wattage	ECM	Quantity	Input Wattage	Pre	Post	-
Field Kindley High School & Clinic Field Kindley High School & Clinic Field Kindley High School & Clinic Field Kindley High School & Clinic Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor		· intuit	Qualitity	Makkaga	2011					Sav
Field Kindley High School & Clinic Field Kindley High School & Clinic Field Kindley High School & Clinic Field Kindley High School & Clinic Field Kindley High School & Clinic			2X4 Prism Rec 2L 32W T8 BB	1	59	RT, 4' 10.5W DE LED 2L BB	1	vvattage 21	0.1	0.0	Jac
Field Kindley High School & Clinic Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor	TV Studio	4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L BB	2	21	0.1	0.0	0
Field Kindley High School & Clinic 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
Field Kindley High School & Clinic	1st floor	Studio Stairs Down	2X4 Prism Rec 2L 32W T8 BB Keyless LED 9W A	1	59	RT, 4' 10.5W DE LED 2L BB LED 9W A19 Replacement	1	21 10	0.1	0.0	0
	Basement Basement	Workout Room	8' Strip LED 65W	61	65	No Action - Existing Efficient/LED Fixture	61	65	4.0	4.0	0
	Basement	Workout Room	Exit Sign Combo LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	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
Field Kindley High School & Clinic Field Kindley High School & Clinic	Basement Basement	Overflow Weights Overflow Weights	8' Strip LED 65W 4' Strip LED 30W	6	65 30	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	6	65 30	0.4	0.4	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
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
Field Kindley High School & Clinic Field Kindley High School & Clinic	Basement Basement	Pool Mechanical Pool Mechanical	4' Wrap BP 4L 32W T8 RLM LED 9W A	7	9	RT, 4' 10.5W DE LED 4L LED 9W A19 Replacement	7	42 10	0.8	0.3	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	0.0	0.0	0
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	(
Field Kindley High School & Clinic	Basement	Storage	RLM CFL 32W Screw In	2	32 9	LED 9W A19 Replacement	2	10	0.1	0.0	-
Field Kindley High School & Clinic Field Kindley High School & Clinic	Basement Basement	Storage Locker Room 1 - Entrance	RLM LED 9W A 4' Wrap BP 4L 32W T8	1	112	LED 9W A19 Replacement RT, 4' 10.5W DE LED 4L	1	10 42	0.0	0.0	- 0
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	(
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	(
Field Kindley High School & Clinic Field Kindley High School & Clinic	Basement Basement	Locker Room 1  Locker Room 1 - Shower	4' Wrap BP 2L 32W T8 4' Vaportight BP 2L 32W T8	2	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	3	21 21	0.1	0.0	+
Field Kindley High School & Clinic	Basement	Locker Room 1 - Restroom	4' Wrap BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	
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	
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	1
Field Kindley High School & Clinic Field Kindley High School & Clinic	Basement Basement	Locker Room 2 Locker Room 2	8' Strip BP 2L 32W T8	12	59	RT, 4' 10.5W DE LED 2L	12	21 0	0.7	0.3	
Field Kindley High School & Clinic	Basement	Locker Room 2 - Private Office	Emergency Fixture 4' Wrap BP 2L 32W T8	6	59	No Action - Emergency Use Only RT, 4 <sup>1</sup> 10.5W DE LED 2L	6	21	0.4	0.0	
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	
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	$\vdash$
ield Kindley High School & Clinic	Basement Basement	Locker Room 2 - Restroom Locker Room 2	4' Strip BP 1L 32W T8 4' Vaportight BP 2L 32W T8	2	31 59	RT, 4' 10.5W DE LED 1L RT. 4' 10.5W DE LED 2L	2	11 21	0.0	0.0	+
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	0.1	0.0	+
ield 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	
ield 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	╄
Field Kindley High School & Clinic Field Kindley High School & Clinic	Basement Basement	Locker Room 2 - Private Office - Closet Locker Room 2 - Entrance	Keyless Inc 60W A 8' Strip BP 2L 32W T8	2	59	LED 9W A19 Replacement RT, 4' 10.5W DE LED 2L	2	10 21	0.1	0.0	+
Field Kindley High School & Clinic	Basement	Locker Room 2 - Storage Room	RLM Inc 60W A	3	60	LED 9W A19 Replacement	3	10	0.1	0.0	+
ield 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	
ield 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	$\vdash$
ield Kindley High School & Clinic ield Kindley High School & Clinic	1st floor 1st floor	Classroom - 14119 Classroom - 14119	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8 BB	16	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L BB	16	21 21	0.9	0.3	₩
ield 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	+
ield 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	
ield 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	╄
Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor 1st floor	Storage Room - 129 Lobby / Hallway - by Trainer 130	4' Wrap BP 3L 32W T8 8' Wrap BP 4L 32W T8	24 5	89 112	RT, 4' 10.5W DE LED 3L RT. 4' 10.5W DE LED 4L	24 5	32 42	2.1 0.6	0.8	+
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	0.2	+
ield 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	
ield 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	$\perp$
Field Kindley High School & Clinic	1st floor 1st floor	Vestibule	12" Rec Sq. LED 9W A RLM Inc 60W A	2	9 60	LED 9W A19 Replacement LED 9W A19 Replacement	2	10	0.0	0.0	+
Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor	Storage Room Storage Room	4' Wrap BP 2L 32W T8	1	59	RT. 4' 10.5W DE LED 2L	1	21	0.1	0.0	+
ield 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	
ield 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	+
Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor 1st floor	Locker Room - 3 Locker Room - 3 - Restroom	Emergency Fixture 4' Strip BP 1L 32W T8	1	31	No Action - Emergency Use Only RT. 4' 10.5W DE LED 1L	1	0 11	0.0	0.0	+
rield Kindley High School & Clinic	1st floor	Locker Room - 3 - Restroom	8' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 1L	1	21	0.0	0.0	+
ield 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	
ield 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	╄
ield Kindley High School & Clinic ield Kindley High School & Clinic	1st floor 1st floor	Locker Room - 3 - Private Office  Locker Room - 3 - Private Office - RR	4' Wrap BP 2L 32W T8 Drum Inc 60W A 2L	1 1	59 120	RT, 4' 10.5W DE LED 2L LED 9W A19 Replacement 2L	1	21 19	0.1	0.0	+
ield 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	+
ield 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	
ield 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	$\perp$
ield Kindley High School & Clinic ield Kindley High School & Clinic	1st floor 1st floor	Locker Room - 4 Locker Room - 4 - Shower	4' Wrap BP 2L 32W T8 4' Vaportight BP 2L 32W T8	3	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	3	21 21	0.1	0.0	+
ield 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 RT, 4' 10.5W DE LED 2L	1	21	0.2	0.0	$^{\dagger}$
ield 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	T
ield Kindley High School & Clinic	1st floor	Locker Room - 4 - Entrance	4' Wrap BP 2L 32W T8	1 20	59	RT, 4' 10.5W DE LED 2L	1 20	21	0.1	0.0	+
ield Kindley High School & Clinic ield Kindley High School & Clinic	1st floor 1st floor	Gym Court Gym Court	High Bay T5HO 6L High Bay T5HO 6L BB	38	351 351	High Bay Compact LED 30 kLm, WG High Bay Compact LED 30 kLm, WG, BB	38	214 214	13.3	8.1 0.9	+
ield 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	0.9	$\perp$
ield 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	F
ield Kindley High School & Clinic	1st floor	Gym - By Screens	4' Wrap BP 2L 32W T8	2 4	59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 4L	2	21	0.1	0.0	+
ield Kindley High School & Clinic ield Kindley High School & Clinic	1st floor 1st floor	Hallway by Gym & 138 Hallway by Gym & 138	8' Wrap BP 4L 32W T8 Emergency Fixture	1	112	RT, 4' 10.5W DE LED 4L No Action - Emergency Use Only	1	42 0	0.4	0.2	+
ield 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	T
ield 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	F
ield Kindley High School & Clinic	1st floor	Vestibule	2X4 Volumetric Rec LED 40W	1	40 18	No Action - Existing Efficient/LED Fixture	1	40	0.2	0.2	+
ield Kindley High School & Clinic ield Kindley High School & Clinic	1st floor 1st floor	Janitor Closet Storage Room for Locker Room	Drum LED 9W A 2L RLM Inc 60W A	3	60	LED 9W A19 Replacement 2L LED 9W A19 Replacement	3	19 10	0.0	0.0	+
ield 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	T
ield 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	F
ield 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	+
ield Kindley High School & Clinic ield Kindley High School & Clinic	1st floor 1st floor	Restroom Restroom	2X4 Prism Rec 3L 32W T8 Drum LED 9W A	1 1	89	RT, 4' 10.5W DE LED 3L LED 9W A19 Replacement	1 1	32 10	0.1	0.0	+
ield 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	T
ield 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	Г
ield 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	F
ield Kindley High School & Clinic	1st floor 1st floor	Under Bleachers Private office	8' Vaportight SP 2L 2X4 Prism Rec 2L 32W T8	5 2	138 59	RT, 4' 10.5W DE LED 4L, 8' VT Kit RT, 4' 10.5W DE LED 2L	5 2	42 21	0.7	0.2	+
ield Kindley High School & Clinic ield Kindley High School & Clinic	1st floor	Changing Alcove	6" Rec Can LED 12W	1	12	No Action - Existing Efficient/LED Fixture	1	12	0.1	0.0	+
ield 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	T
ield 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	
ield 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	+
ield Kindley High School & Clinic ield Kindley High School & Clinic	1st floor 1st floor	Restroom - Boys Restroom - Boys	2x2 Flat Panel Rec LED 39W 2x2 Flat Panel Rec LED 39W BB	8	39 39	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	1	39 39	0.3	0.3	+
	1st floor	Restroom - Boys  Restroom - Boys - Janitor Closet	2x2 Flat Panel Rec LED 39W BB 2x2 Flat Panel Rec LED 39W	1	39	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	1	39	0.0	0.0	+
ield Kindley High School & Clinic	1st floor	Lobby For Library	2X4 Prism Rec 2L 32W T8	6	59	RT, 4' 10.5W DE LED 2L	6	21	0.4	0.1	T
Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor	Labelia F. 199									
	1st floor	Lobby For Library - Case  Consulting Suite - Conference Room	4' Strip BP 2L 2X4 Prism Rec 2L 32W T8	6 3	72 59	RT, 4' 10.5W DE LED 2L RT. 4' 10.5W DE LED 2L	6 3	21	0.4	0.1	+



	Location		Existing Fix	xture		Proposed Fix	ture			kW	
Building	Floor	Room	Fixture	Quantity	Input	ECM	Quantity	Input	Pre	Post	Sav
Field Kindley High School & Clinic	1st floor	Consulting Suite - Private Office	2X4 Prism Rec 2L 32W T8	4	Wattage 59	RT. 4' 10.5W DE LED 2L	4	Wattage 21	0.2	0.1	0
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
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
Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor	Library	1x4 Prism Rec 2L 32W T8 Emergency Fixture	22	59	RT, 41 10.5W DE LED 2L No Action - Emergency Use Only	22	21 0	0.0	0.5	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	0.0	0.1	1 0
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
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	-
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
Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor 1st floor	Elevator Cab  Janitor Closet / Private Office - 14501	4' Strip BP 1L 32W T8 RLM LED 9W A	1 1	9	RT, 4' 10.5W DE LED 1L LED 9W A19 Replacement	1	11	0.0	0.0	H
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	$^{\dagger}$
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	
ield 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	╀
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	⊬
Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor 1st floor	Classroom - 112 - Showroom Hallway	Drum LED 9W A 2X4 Prism Rec 2L 32W T8	1 1	59	LED 9W A19 Replacement RT, 4' 10.5W DE LED 2L	1	10 21	0.0	0.0	+
ield 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	$^{\dagger}$
ield 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	
ield Kindley High School & Clinic	1st floor	Classroom - Home Economics - Restroom		1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	╄
ield 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	╀
ield Kindley High School & Clinic ield Kindley High School & Clinic	1st floor 1st floor	Classroom - 112 - Exterior Door Entrance	Exit Sign Paper Drum Inc 60W A 2L	1	120	No Action LED 9W A19 Replacement 2L	1	19	0.0	0.0	+
ield 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	+
ield 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	
ield 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	╄
ield Kindley High School & Clinic	1st floor	Storage Closet	Globe Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	╀
ield Kindley High School & Clinic ield Kindley High School & Clinic	1st floor 1st floor	Private Office Storage Room	2X4 Prism Rec 3L 32W T8 Keyless Inc 60W A	1	89 60	RT, 4 <sup>1</sup> 10.5W DE LED 3L LED 9W A19 Replacement	1	32 10	0.4	0.1	₩
ield 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	0.1	0.0	+
ield Kindley High School & Clinic	1st floor	Exit Door	Need to Add Exit Combo	1	0	No Action	1	0	0.0	0.0	T
ield 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	Г
eld 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	+
ield Kindley High School & Clinic ield Kindley High School & Clinic	1st floor	Seating Under Balcony	Wall Sconce LED 7W PAR20 Decorative LED 9W A	12	7	No Action - Existing Efficient/LED Fixture	12	7 9	0.0	0.0	+
ield Kindley High School & Clinic	1st floor 1st floor	Seating Seating	Exit Sign LED Recessed	2	3	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	2	3	0.1	0.1	+
ield 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	T
ield 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	$\Box$
ield Kindley High School & Clinic	1st floor	Restroom - Women	None Existing	0	0	No Action	0	0	0.0	0.0	╀
ield Kindley High School & Clinic ield Kindley High School & Clinic	1st floor 1st floor	Vestibule Vestibule	Wall Sconce LED 9W A Drum LED 9W A 2L	1	9 18	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	1	9	0.0	0.0	+
ield Kindley High School & Clinic	1st floor	Storage Closet	Keyless Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.0	0.0	+
ield Kindley High School & Clinic	1st floor	Storage Closet	Keyless Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	
ield Kindley High School & Clinic	1st floor	Restroom - Men	None Existing	0	0	No Action	0	0	0.0	0.0	$\Box$
ield 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	₽
ield Kindley High School & Clinic ield Kindley High School & Clinic	1st floor 1st floor	Stairs - Left Stage	Decorative LED 16W A Keyless Inc 60W A	6	16	No Action - Existing Efficient/LED Fixture LED 9W A19 Replacement	6	16 10	0.0	0.0	+
ield Kindley High School & Clinic	1st floor	Storage Room	Keyless Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.4	0.0	+
ield 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	
ield 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	L
ield 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	╀
ield Kindley High School & Clinic ield Kindley High School & Clinic	Basement 1st floor	Electrical 2 Stairs by Main Office	8' Strip BP 4L 32W T8 Decorative LED 9W A	1	112 9	RT, 4' 10.5W DE LED 4L LED 9W A19 Replacement	1	42 10	0.0	0.0	╁
ield 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	+
ield 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	
ield 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	Е
ield Kindley High School & Clinic	1st floor	Stairs by Main Office Stairs by Main Office	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	1	21 0	0.1	0.0	⊬
ield Kindley High School & Clinic ield Kindley High School & Clinic	1st floor	Stairs by Main Office	Emergency Fixture 2X4 Prism Rec 2L 32W T8	2	59	No Action - Emergency Use Only RT, 4' 10.5W DE LED 2L	2	21	0.0	0.0	╁
ield 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	+
ield 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	
ield 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	I
ield 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	╀
ield Kindley High School & Clinic ield Kindley High School & Clinic	2nd floor 2nd floor	Hallway Hallway	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8 BB	6	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L BB	6	21 21	0.4	0.1	╁
ield 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	+
ield 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	T
eld Kindley High School & Clinic	2nd floor	Stairs at Canter	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	F
ield Kindley High School & Clinic	2nd floor	Stairs at Canter	2X4 Prism Rec 2L 32W T8	2	59 9	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	+
ield Kindley High School & Clinic ield Kindley High School & Clinic	2nd floor 2nd floor	Stairs at Canter Classroom - 200	Decorative LED 9W A 2X4 Prism Rec 3L 32W T8 DS	8	90	LED 9W A19 Replacement RT, 4' 10.5W DE LED 3L	8	10 32	0.0	0.0	+
ield Kindley High School & Clinic	2nd floor	Classroom - 200 - Storage Closet	8' Wrap BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 4L	1	42	0.7	0.0	$\dagger$
ield 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	I
eld 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	+
ield Kindley High School & Clinic ield Kindley High School & Clinic	2nd floor 2nd floor	Hallway Alcove Classroom - 202	2X2 Prism Rec 4L T8 2X4 Prism Rec 3L 32W T8 DS	9	90	RT, 2' 7W DE LED 2L, 2x2 Refl Kit RT, 4' 10.5W DE LED 3L	9	14 32	0.1	0.0	+
ield Kindley High School & Clinic	2nd floor	Stairs at End	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 3L	2	21	0.8	0.0	$^{\dagger}$
ield 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	T
ield Kindley High School & Clinic	2nd floor	Stairs at End	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	Г
eld 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	+
ield Kindley High School & Clinic ield Kindley High School & Clinic	2nd floor 2nd floor	Stairs at End Stairs at End	8' Wrap BP 2L 32W T8 Emergency Fixture	1	59	RT, 4' 10.5W DE LED 2L No Action - Emergency Use Only	1	21 0	0.1	0.0	+
ield 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	t
ield 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	I
ield 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	F
eld Kindley High School & Clinic	2nd floor	Stairs - Down SW	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	+
ield Kindley High School & Clinic ield Kindley High School & Clinic	2nd floor 2nd floor	Stairs - Down SW - Accent Stairs - Down SW - Case	6" Rec Can LED 12W None Existing	0	12 0	No Action - Existing Efficient/LED Fixture  No Action	0	12 0	0.0	0.0	+
ield Kindley High School & Clinic	2nd floor	Vault	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.0	0.0	+
ield 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	T
ield 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	Г
eld 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	H
ield Kindley High School & Clinic	2nd floor	Team Shop	6" Rec Can LED 14W	7	14	No Action - Existing Efficient/LED Fixture	7 22	14	0.1	0.1	+
ield Kindley High School & Clinic ield Kindley High School & Clinic	2nd floor 2nd floor	Team Shop Team Shop	Track Head LED 7W Cylinder LED 14W	23	7 14	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	23	7 14	0.2	0.2	+
ield Kindley High School & Clinic	2nd floor	Storage Room	4' Strip LED 20W	2	20	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	2	20	0.0	0.0	+
ield 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	T
ield Kindley High School & Clinic	2nd floor	Concourse	Decorative LED 156W	1	156	No Action - Existing Efficient/LED Fixture	1	156	0.2	0.2	I
ield Kindley High School & Clinic	2nd floor	Concession	Cylinder LED 14W	5	14	No Action - Existing Efficient/LED Fixture	5	14	0.1	0.1	F
ield 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	H
ield Kindley High School & Clinic	2nd floor	Storage Room	4' Strip LED 20W	1	20	No Action - Existing Efficient/LED Fixture	1 2	20	0.0	0.0	+
ield Kindley High School & Clinic ield Kindley High School & Clinic	2nd floor 2nd floor	Stairs Down SE Stairs Down SE	2X4 Prism Rec 3L 32W T8 2X4 Prism Rec 3L 32W T8	2	89 89	RT, 4' 10.5W DE LED 3L RT. 4' 10.5W DE LED 3L	2	32 32	0.2	0.1	+
	2nd floor	Stairs Down SE	2x4 Prism Rec 3L 32W 18 8' Wrap BP 4L 32W T8	1	112	RT. 4' 10.5W DE LED 3L RT. 4' 10.5W DE LED 4L	1	42	0.2	0.0	+
ield Kindley High School & Clinic											



Field Kindley High School & Clinic Field Kindley Hi	Eloor  2nd floor	Room  Stairs Down NE Stairs Down NE Stairs Down NE Stairs Down NE Stairs Down NE Stairs Down NE Stairs Down NE Stairs Down NE Stairs Down NE Stairs NW Stairs NW Stairs NW Stairs NW Stairs NW Stairs NW Stairs NW Stairs NW Stairs NW Stairs NW Classroom - 203 Classroom - 203 Classroom - 203 Classroom - 203 Classroom - 203 Classroom - 203 Classroom - 203 Classroom - 203 Classroom - 203 Stitchen for Home Eco Classroom - 203 Classroom - 203 Classroom - 204 Stitchen for Home Eco Classroom - 205 Stience - Storage Classroom - 205 Science - Storage Classroom - 205 Science - Storage Classroom - 205 Science - Storage Classroom - 205 Science - Storage Classroom - 206 Science - Storage Classroom - 206 Science - Storage Classroom - 206 Science - Storage Classroom - 206 Science - Storage Classroom - 206 Science - Storage Classroom - 206 Classroom - 206 Science - Storage Classroom - 206 Science - Storage Classroom - 206 Science - Storage Classroom - 206 Science - Storage Classroom - 206 Science - Storage Classroom - 207 Science - Storage Classroom - 206 Science - Storage Classroom - 207 Science	Fixture	Quantity  2 2 1 1 1 1 1 2 2 1 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 8 8 1 1 1 5 4 1 1 2 1 1 1 1 1 5 4 1 1 1 5 4 1 1 1 5 5 4 1 1 1 5 5 5 5	Input Wattage 89 89 89 112 3 112 59 89 0 112 112 112 59 90 31 12 61 61 31 26 90 90 112 112 59 90 112	ECM  RT, 4' 10.5W DE LED 3L  RT, 4' 10.5W DE LED 3L  RT, 4' 10.5W DE LED 3L  RT, 4' 10.5W DE LED 4L  NO Action - Existing Efficient/LED Fixture  RT, 4' 10.5W DE LED 4L  RT, 4' 10.5W DE LED 3L  RT, 4' 10.5W DE LED 3L  RT, 4' 10.5W DE LED 3L  NO Action - Emergency Use Only  RT, 4' 10.5W DE LED 4L  RT, 4' 10.5W DE LED 4L  RT, 4' 10.5W DE LED 4L  RT, 4' 10.5W DE LED 4L  RT, 4' 10.5W DE LED 4L  RT, 4' 10.5W DE LED 1L  RT, 4' 10.5W DE LED 1L  RT, 4' 10.5W DE LED 1L  RT, 4' 10.5W DE LED 4L  RT, 4' 10.5W DE LED 4L  RT, 4' 10.5W DE LED 4L  RT, 4' 10.5W DE LED 4L  RT, 4' 10.5W DE LED 4L  RT, 4' 10.5W DE LED 4L  RT, 4' 10.5W DE LED 1L  RT, 4' 10.5W DE LED 1L  RT, 4' 10.5W DE LED 1L  RT, 4' 10.5W DE LED 1L  RT, 4' 10.5W DE LED 1L  RT, 4' 10.5W DE LED 1L  RT, 4' 10.5W DE LED 1L  RT, 4' 10.5W DE LED 1L  RT, 4' 10.5W DE LED 3L  RT, 4' 10.5W DE LED 3L  RT, 4' 10.5W DE LED 4L  RT, 4' 10.5W DE LED 4L	Quantity  2 2 1 1 1 1 1 2 2 2 1 1 1 1 1 2 2 1	Input Wattage 32 32 32 42 42 32 32 32 42 42 42 42 42 42 42 42 42 42 42 42 42	Pre 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Sa
eld Kindley High School & Clinic eld Kindley High School & Clinic	2nd floor 2nd floor	Stairs Down NE Stairs Down NE Stairs Down NE Stairs Down NE Stairs Down NE Stairs Sown NE Stairs Sown NE Stairs SW Stairs SW Stairs SW Stairs SW Stairs SW Stairs SW Glassroom - 203 Classroom - 203 Stitchen for Home Eco Classroom - 203 Classroom - 205 Classroom - 205 Classroom - 205 Classroom - 205 Classroom - 205 Classroom - 205 Classroom - 205 Classroom - 205 Stience - Storage Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 207 Classroom - 207 Classroom - 207 Classroom - 207 Classroom - 208 C	224 Prism Rec 31. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 2X4 Prism Rec 31. 32W T8 2X4 Prism Rec 31. 32W T8 2X4 Prism Rec 31. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 6W T8 PE 74. 32W T8 6W T8 PE 74. 32W T8 6W T8 PE 74. 32W T8 6W T8 PE 74. 32W T8 6W T8 PE 74. 32W T8 7W T8 PE 74. 3	2 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 4 4 2 2 8 8 1 1 1 1 5 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1	89 89 1112 3 1112 59 89 0 1112 1112 59 90 31 12 60 60 61 112 0 61 112 0 90 90 1112 112 59 90 1112 112 112 112 112 112 112 112 112 1	RT, 4* 10.5 W DE LED 3L  NO. Action - Existing Efficient/LED Fixture RT, 4* 10.5 W DE LED 4L  NO. Action - Existing Efficient/LED Fixture RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  NO. Action - Emergency Use Only  RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 1L  LED 9W A19 Replacement RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 4L	2 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1	32 32 32 42 42 21 32 0 0 42 21 11 12 20 0 0 42 21 11 12 28 11 12 42 42 42 42 42 42 42 42 42 42 42 42 42	0.2 0.1 0.0 0.1 0.1 0.2 0.2 0.0 0.1 0.1 0.1 1.4 0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.1 1.4 0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	0.1 0.0 0.0 0.0 0.0 0.1 0.1 0.0 0.0	
sid Kindley High School & Clinic         2           sid Kindley High School & Clinic         2 <td< th=""><th>2nd floor 2nd floor</th><th>Stairs Down NE Stairs Down NE Stairs Down NE Stairs Down NE Stairs Down NE Stairs Sown NE Stairs Sown NE Stairs SW Stairs SW Stairs SW Stairs SW Stairs SW Stairs SW Glassroom - 203 Classroom - 203 Stitchen for Home Eco Classroom - 203 Classroom - 205 Classroom - 205 Classroom - 205 Classroom - 205 Classroom - 205 Classroom - 205 Classroom - 205 Classroom - 205 Stience - Storage Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 207 Classroom - 207 Classroom - 207 Classroom - 207 Classroom - 208 C</th><th>224 Prism Rec 31. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 2X4 Prism Rec 31. 32W T8 2X4 Prism Rec 31. 32W T8 2X4 Prism Rec 31. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 6W T8 PE 74. 32W T8 6W T8 PE 74. 32W T8 6W T8 PE 74. 32W T8 6W T8 PE 74. 32W T8 6W T8 PE 74. 32W T8 7W T8 PE 74. 3</th><th>1 1 1 1 1 2 2 2 1 1 1 1 1 15 4 4 2 2 8 8 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1</th><th>89 1112 3 1112 59 89 0 1112 59 0 1112 59 0 1112 112 59 1112 112 59 1112 0 1112 112 112 112 112 112 112 112</th><th>RT, 4* 10.5 W DE LED 3L  NO. Action - Existing Efficient/LED Fixture RT, 4* 10.5 W DE LED 4L  NO. Action - Existing Efficient/LED Fixture RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  NO. Action - Emergency Use Only  RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 1L  LED 9W A19 Replacement RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 4L</th><th>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</th><th>32 42 3 42 21 32 21 32 0 42 21 11 12 0 0 42 21 11 12 2 0 0 2 11 12 2 12 12 12 13 2 2 14 2 14 2 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18</th><th>0.2 0.1 0.0 0.1 0.1 0.2 0.2 0.0 0.1 0.1 0.1 1.4 0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.1 1.4 0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1</th><th>0.1 0.0 0.0 0.0 0.0 0.1 0.1 0.0 0.0</th><th></th></td<>	2nd floor 2nd floor	Stairs Down NE Stairs Down NE Stairs Down NE Stairs Down NE Stairs Down NE Stairs Sown NE Stairs Sown NE Stairs SW Stairs SW Stairs SW Stairs SW Stairs SW Stairs SW Glassroom - 203 Classroom - 203 Stitchen for Home Eco Classroom - 203 Classroom - 205 Classroom - 205 Classroom - 205 Classroom - 205 Classroom - 205 Classroom - 205 Classroom - 205 Classroom - 205 Stience - Storage Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 206 Classroom - 207 Classroom - 207 Classroom - 207 Classroom - 207 Classroom - 208 C	224 Prism Rec 31. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 2X4 Prism Rec 31. 32W T8 2X4 Prism Rec 31. 32W T8 2X4 Prism Rec 31. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 5W T8 pB P 41. 32W T8 6W T8 PE 74. 32W T8 6W T8 PE 74. 32W T8 6W T8 PE 74. 32W T8 6W T8 PE 74. 32W T8 6W T8 PE 74. 32W T8 7W T8 PE 74. 3	1 1 1 1 1 2 2 2 1 1 1 1 1 15 4 4 2 2 8 8 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1	89 1112 3 1112 59 89 0 1112 59 0 1112 59 0 1112 112 59 1112 112 59 1112 0 1112 112 112 112 112 112 112 112	RT, 4* 10.5 W DE LED 3L  NO. 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Action - Emergency Use Only  RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 1L  LED 9W A19 Replacement RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 1L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 4L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 3L  RT, 4* 10.5 W DE LED 4L	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	32 42 3 42 21 32 21 32 0 42 21 11 12 0 0 42 21 11 12 2 0 0 2 11 12 2 12 12 12 13 2 2 14 2 14 2 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	0.2 0.1 0.0 0.1 0.1 0.2 0.2 0.0 0.1 0.1 0.1 1.4 0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.1 1.4 0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	0.1 0.0 0.0 0.0 0.0 0.1 0.1 0.0 0.0	
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sled Kindley High School & Clinic 2 sled Kindley High School & Clinic 3 sled Kindley High School & Cli	2nd floor 2nd floor	Clastroom - 205 - Science - Storage Clastroom - 205 - Science - Storage Storage Room Hallway Hallway Clastroom - 206 - Science Clastroom - 206 - Science Clastroom - 206 - Science Janitor Closet Lounge Lounge - Restroom	8' Schoolhouse BP 4L 32W T8 4' Schoolhouse BP 2L 32W T8 Keyless Inc 100W A Keyless Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8 BB 2X4 Prism Rec 3L 32W T8 DS	2 1 1 5 5	112 59 100	RT, 4' 10.5W DE LED 4L	2	42 21	0.2	0.1	F
seld Kindley High School & Clinic eld Kindley High School & Clinic	2nd floor 2nd floor	Classroom - 205 - Science - Storage Storage Room Hallway Hallway Classroom - 206 - Science Classroom - 206 - Science - Storage Classroom - 207 - Science Janitor Closet Lounge - Restroom	4' Schoolhouse BP 2L 32W T8 Keyless Inc 100W A 2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8 BB 2X4 Prism Rec 3L 32W T8 DS	1 1 5 5	59 100			21	0.1	0.0	ŧ
eled Kindley High School & Clinic  2 tel drindley High School & Clinic  3 tel drindley High School & Clinic  4 tel drindley High School & Clinic  4 tel drindley High School & Clinic  5 tel drindley High School & Clinic  5 tel drindley High School & Clinic  5 tel drindley High School & Clinic  5 tel drindley High School & Clinic  5 tel drindley High School & Clinic  6 tel drindley High School & Clinic  6 tel drindley High School & Clinic  8 tel drindley High School & Clinic  9 tel drindle	2nd floor 2nd floor	Storage Room Hallway Hallway Classroom - 206 - Science Classroom - 207 - Science Classroom - 207 - Science Janitor Closet Lounge Lounge - Restroom	Keyless Inc 100W A 2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8 BB 2X4 Prism Rec 3L 32W T8 DS	1 5 5	100		1				+
seld Kindley High School & Clinic eld Kindley High School & Clinic	2nd floor 2nd floor	Hallway Hallway Classroom - 206 - Science Classroom - 207 - Science Classroom - 207 - Science Janitor Closet Lounge Lounge - Restroom	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8 BB 2X4 Prism Rec 3L 32W T8 DS	5 5		LED 9W A19 Replacement	1	10	0.1	0.0	
leid Kindley High School & Clinic eld Kindley High School & Clinic	2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor	Hallway Classroom - 206 - Science Classroom - 206 - Science - Storage Classroom - 207 - Science Janitor Closet Lounge Lounge - Restroom	2X4 Prism Rec 3L 32W T8 DS		59	RT, 4' 10.5W DE LED 2L	5	21	0.3	0.1	$^{\dagger}$
seld Kindley High School & Clinic eld Kindley High School & Clinic	2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor	Classroom - 206 - Science - Storage Classroom - 207 - Science Janitor Closet Lounge Lounge - Restroom		21	59	RT, 4' 10.5W DE LED 2L BB	5	21	0.3	0.1	I
eld Kindley High School & Clinic  2 teld Kindley High School & Clinic  2 teld Kindley High School & Clinic  2 teld Kindley High School & Clinic  2 teld Kindley High School & Clinic  2 teld Kindley High School & Clinic  2 teld Kindley High School & Clinic  2 teld Kindley High School & Clinic  2 teld Kindley High School & Clinic  2 teld Kindley High School & Clinic  2 teld Kindley High School & Clinic  2 teld Kindley High School & Clinic  2 teld Kindley High School & Clinic  2 teld Kindley High School & Clinic  2 teld Kindley High School & Clinic  2 teld Kindley High School & Clinic  3 teld Kindley High School & Clinic  4 teld Kindley High School & Clinic  4 teld Kindley High School & Clinic  4 teld Kindley High School & Clinic  4 teld Kindley High School & Clinic  4 teld Kindley High School & Clinic  4 teld Kindley High School & Clinic  4 teld Kindley High School & Clinic  4 teld Kindley High School & Clinic  5 teld Kindley High School & Clinic  5 teld Kindley High School & Clinic  6 teld Kindley High School & Clinic  6 teld Kindley High School & Clinic  8 teld Kindley High School & Clinic  9 teld Kindley High School & Clinic	2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor	Classroom - 207 - Science Janitor Closet Lounge Lounge - Restroom	s schoolnouse BP 4L 32W T8	_	90	RT, 4' 10.5W DE LED 3L	21	32	1.9	0.7	Ļ
seld Kindley High School & Clinic seld Kindley High School & Clinic	2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor	Janitor Closet  Lounge  Lounge - Restroom	2X4 Prism Rec 3L 32W T8 DS	18	90 90	RT, 4' 10.5W DE LED 4L RT, 4' 10.5W DE LED 3L	18	42 32	0.2 1.6	0.1	+
eled Kindley High School & Clinic  et di Kindley High School & Clinic  et di Kindley High School & Clinic  et di Kindley High School & Clinic  eled Kindley High School & Clinic  eled Kindley High School & Clinic  et di Kindley High School & Clinic	2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor	Lounge Lounge - Restroom	4' Wrap BP 2L 32W T8	18	59	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L	18	21	0.1	0.6	+
leid Kindley High School & Clinic eld Kindley High School & Clinic 2 deld Kindley High School & Clinic 2 deld Kindley High School & Clinic 2 deld Kindley High School & Clinic 2 deld Kindley High School & Clinic 2 deld Kindley High School & Clinic 2 deld Kindley High School & Clinic 2 deld Kindley High School & Clinic 2 deld Kindley High School & Clinic 2 deld Kindley High School & Clinic 3 deld Kindley High School & Clinic 3 deld Kindley High School & Clinic 3 deld Kindley High School & Clinic 3 deld Kindley High School & Clinic 3 deld Kindley High School & Clinic 3 deld Kindley High School & Clinic 3 deld Kindley High School & Clinic 3 deld Kindley High School & Clinic 3 deld Kindley High School & Clinic 3 deld Kindley High School & Clinic 3 deld Kindley High School & Clinic 3 deld Kindley High School & Clinic 3 deld Kindley High School & Clinic 4 del Kindley High School & Clinic 4 del Kindley High School & Clinic 4 del Kindley High School & Clinic 4 del Kindley High School & Clinic 5 del Kindley High School & Clinic 6 del Kindley High School & Clinic 6 del Kindley High School & Clinic 6 del Kindley High School & Clinic 6 del Kindley High School & Clinic 6 del Kindley High School & Clinic 6 del Kindley High School & Clinic 6 del Kindley High School & Clinic 6 del Kindley High School & Clinic 6 del Kindley High School & Clinic 6 del Kindley High School & Clinic 6 del Kindley High School & Clinic 6 del Kindley High School & Clinic 6 del Kindley High School & Clinic 6 del Kindley High School & Clinic 6 del Kindley High School & Clinic 6 del Kindley High School & Clinic 7 del Kindley High School & Clinic 7 del Kindley High School & Clinic 8 del Kindley High School & Clinic 8 del Kindley High School & Clinic 8 del Kindley High School & Clinic 8 del Kindley High School & Clinic 8 del Kindley High School & Clinic 8 del Kindley High School & Clinic 8 del Kindley High School & Clinic	2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor	Lounge - Restroom	2X4 Prism Rec 3L 32W T8 DS	4	90	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	T
sled Kindley High School & Clinic  del Kindley High School & Clinic  2 del Kindley High School & Clinic  2 del Kindley High School & Clinic  2 del Kindley High School & Clinic  2 del Kindley High School & Clinic  2 del Kindley High School & Clinic  2 del Kindley High School & Clinic  2 del Kindley High School & Clinic  3 del Kindley High School & Clinic	2nd floor 2nd floor 2nd floor 2nd floor 2nd floor 2nd floor	Part	Decorative Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	Γ
eled Kindley High School & Clinic eled K	2nd floor 2nd floor 2nd floor 2nd floor 2nd floor	Stairs	2X4 Prism Rec 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	+
ald Kindley High School & Clinic  2 beld Kindley High School & Clinic  2 beld Kindley High School & Clinic  2 beld Kindley High School & Clinic  2 beld Kindley High School & Clinic  2 beld Kindley High School & Clinic  3 beld Kindley High School & Clinic	2nd floor 2nd floor 2nd floor 2nd floor	Stairs Stairs	2X4 Prism Rec 2L 32W T8 Emergency Fixture	1	59	RT, 4' 10.5W DE LED 2L No Action - Emergency Use Only	1	0	0.1	0.0	╁
eled Kindley High School & Clinic eled Kindley High School & Clinic eled Kindley High School & Clinic eled Kindley High School & Clinic eled Kindley High School & Clinic eled Kindley High School & Clinic 30 eled Kindley High School & Clinic 31 eled Kindley High School & Clinic 32 eled Kindley High School & Clinic 33 eled Kindley High School & Clinic 34 eled Kindley High School & Clinic 36 eled Kindley High School & Clinic 37 eled Kindley High School & Clinic 38 eled Kindley High School & Clinic 39 eled Kindley High School & Clinic 30 eled Kindley High School & Clinic 31 eled Kindley High School & Clinic 31 eled Kindley High School & Clinic 32 eled Kindley High School & Clinic 33 eled Kindley High School & Clinic 34 eled Kindley High School & Clinic 35 eled Kindley High School & Clinic 36 eled Kindley High School & Clinic 37 eled Kindley High School & Clinic 38 eled Kindley High School & Clinic 39 eled Kindley High School & Clinic 30 eled Kindley High School & Clinic 30 eled Kindley High School & Clinic 31 eled Kindley High School & Clinic 32 eled Kindley High School & Clinic 33 eled Kindley High School & Clinic 34	2nd floor 2nd floor 2nd floor	Stairs	8' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	t
eld Kindley High School & Clinic 2 det Kindley High School & Clinic 3 in School & Clinic 3 in School & Clinic 3 in School & Clinic 4 in School & Clinic 5 in School & Clinic 6 in School & Clinic 6 in School & Clinic 6 in School & Clinic 6 in School & Clinic 6 in School & Clinic 6 in School & Clinic 7 in School & Clinic 8 in School & Clinic 8 in School & Clinic 8 in School & Clinic 8 in School & Clinic 9 in 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	Τ
eld Kindley High School & Clinic del Kindley High School & Clinic eld Kindley High School & Clinic in in School & Clinic		Stairs	Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	Γ
eld Kindley High School & Clinic  eld Kindley High School & Clinic  is School & Clinic		Stairs	4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	╀
seld Kindley High School & Clinic  seld Kindley High School & Clinic	3rd Floor	Hallway Hallway Alcove	2X2 Prism Rec 4L T8 2X2 Prism Rec 4L T8	1	61 61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit RT, 2' 7W DE LED 2L, 2x2 Refl Kit	1	14	0.2	0.1	+
eled Kindley High School & Clinic eled K	3rd Floor	Classroom - 314	2X4 Prism Rec 3L 32W T8 DS	9	90	RT, 4' 10.5W DE LED 3L	9	32	0.1	0.3	+
elel Kindley High School & Clinic  alel 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	T
seld Kindley High School & Clinic seld 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	$\Box$
eld Kindley High School & Clinic  3 deld Kindley High School & Clinic  3 deld Kindley High School & Clinic  3 deld Kindley High School & Clinic  4 del Kindley High School & Clinic  4 del Kindley High School & Clinic  4 del Kindley High School & Clinic  4 del Kindley High School & Clinic  4 del Kindley High School & Clinic  4 del Kindley High School & Clinic  4 del Kindley High School & Clinic  5 del Kindley High School & Clinic  6 del Kindley High School & Clinic  6 del Kindley High School & Clinic  7 del Kindley High School & Clinic  8 del 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	╀
eld Kindley High School & Clinic 3 eld Kindley High School & Clinic 3 eld Kindley High School & Clinic 3 eld Kindley High School & Clinic 3 eld Kindley High School & Clinic 3 eld Kindley High School & Clinic 3 eld Kindley High School & Clinic 3 eld Kindley High School & Clinic 3 eld Kindley High School & Clinic 3 eld Kindley High School & Clinic 3	3rd Floor 3rd Floor	Classroom - 315 Classroom - 316	2X4 Prism Rec 3L 32W T8 DS 2X4 Prism Rec 3L 32W T8 DS	9	90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	9 10	32 32	0.8	0.3	╁
eld Kindley High School & Clinic 3: eld Kindley High School & Clinic 3: eld Kindley High School & Clinic 3: eld Kindley High School & Clinic 3: eld Kindley High School & Clinic 3: eld Kindley High School & Clinic 3: eld Kindley High School & Clinic 3:	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	+
eld Kindley High School & Clinic         30           eld Kindley High School & Clinic         30           eld Kindley High School & Clinic         30           eld Kindley High School & Clinic         30	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	T
eld Kindley High School & Clinic 31 eld Kindley High School & Clinic 31 eld Kindley High School & Clinic 31	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	I
eld Kindley High School & Clinic 3: eld Kindley High School & Clinic 3:	3rd Floor 3rd Floor	Hallway Alcove Classroom - 302	2X2 Prism Rec 4L T8 2X4 Prism Rec 3L 32W T8 DS	9	90	RT, 2' 7W DE LED 2L, 2x2 Refl Kit RT. 4' 10.5W DE LED 3L	9	14 32	0.1	0.0	╀
	3rd Floor	Vestibule - Classroo - 303	2X4 Prism Rec 2L 32W T8 D3	1	59	RT, 4' 10.5W DE LED 3L	1	21	0.1	0.0	+
eld Kindley High School & Clinic 3	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	I
	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	╀
	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	╀
	3rd Floor 3rd Floor	Classroom - 306 Classroom - 307	2X4 Prism Rec 3L 32W T8 DS 2X4 Prism Rec 3L 32W T8 DS	11	90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	11	32 32	0.8 1.0	0.3	+
	3rd Floor	JanitorCloset	Keyless LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	t
	3rd Floor	Hallway	2X4 Prism Rec 2L 32W T8	5	59	RT, 4' 10.5W DE LED 2L	5	21	0.3	0.1	Γ
	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	╀
	3rd Floor 3rd Floor	Classroom - 308	2X4 Prism Rec 3L 32W T8 DS 2X4 Prism Rec 2L 32W T8	9	90 59	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L	9	32 21	0.8	0.3	+
	3rd Floor	Classroom - 309 - Art	2X4 Prism Rec 3L 32W T8 DS	15	90	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 3L	15	32	1.4	0.5	$^{\dagger}$
, , ,	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	I
	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	ľ
	3rd Floor	Storage Room	2X4 Prism Rec 3L 32W T8 DS 2X4 Prism Rec 3L 32W T8 DS	12	90	RT, 4' 10.5W DE LED 3L	4	32	0.4	0.1	+
	3rd Floor 3rd Floor	Classroom - 312 Classroom - 313	2X4 Prism Rec 3L 32W T8 DS 2X4 Prism Rec 3L 32W T8 DS	12	90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	12	32 32	1.1	0.4	+
	Exterior	Front Office Entrance	Wall Pack LED 12W	1	12	No Action - Existing Efficient/LED Fixture	1	12	0.0	0.0	İ
	Exterior	Auditorium Entrance	Wall Pack LED 12W	1	12	No Action - Existing Efficient/LED Fixture	1	12	0.0	0.0	F
	Exterior Exterior	Stairwell Door Back Wall - Parking lot	Wall Pack LED 27W Corn Cob Wall Pack LED 27W Corn Cob	1 1	27 27	Wall Pack LED FT TWX 5 kLm PC Wall Pack LED FT TWX 5 kLm PC	1 1	36 36	0.0	0.0	+
	Exterior	Back Wall - Parking lot Door	Wall Pack LED 27W Corn Cob	1	27	Wall Pack LED FT TWX 5 kLm PC Wall Pack LED FT TWX 5 kLm PC	1	36	0.0	0.0	+
	Exterior	Clinic Entrance and Sidewalk	Wall Pack LED 46W	4	46	No Action - Existing Efficient/LED Fixture	4	46	0.2	0.2	$^{\dagger}$
eld Kindley High School & Clinic E	Exterior	Clinic Door and Sidewalk	Wall Pack LED 46W	2	46	No Action - Existing Efficient/LED Fixture	2	46	0.1	0.1	T
, , ,	Exterior	Pool Door	Wall Pack LED 26W	1	26	No Action - Existing Efficient/LED Fixture	1	26	0.0	0.0	Ļ
, , ,	Exterior	Locker Room Wall - Side Walk Gym Entrance	Wall Pack LED 27W Corn Cob Wall Pack LED 27W Corn Cob	1	27	Wall Pack LED FT TWX 5 kLm PC Wall Pack LED FT TWX 5 kLm PC	1	36 36	0.1	0.1	+
	Exterior	Wall by Middle School	Wall Pack MH 175W	2	215	Wall Pack LED FT TWX 5 kLm PC Wall Pack LED FT TWX 5 kLm PC	2	36	0.0	0.0	+
	Exterior	Front Side Walk	Wall Pack LED 41W	4	41	No Action - Existing Efficient/LED Fixture	4	41	0.2	0.2	T
eld Kindley High School & Clinic E	Exterior	Flag Pole	Flood LED 78W	1	78	No Action - Existing Efficient/LED Fixture	1	78	0.1	0.1	I
	Exterior	Statue	Flood LED 45W	1	45	No Action - Existing Efficient/LED Fixture	1	45	0.0	0.0	+
	Exterior Exterior	Stair Hallway Door Front Wall	Wall Pack LED 125W Wall Pack LED 27W Corn Cob	2	125 27	No Action - Existing Efficient/LED Fixture Wall Pack LED FT TWX 5 kLm PC	2	125 36	0.1	0.1	+
	Exterior	Central Stair Door	Wall Pack LED 27W Corn Cob	1	12	No Action - Existing Efficient/LED Fixture	1	12	0.0	0.0	+
	1st floor	Vestibule	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.0	0.1	$\uparrow$
eld Kindley High School & Clinic 1	1st floor	Vestibule	Exit Sign Combo LED	1	3	No Action - Existing Efficient/LED Fixture	1	3	0.0	0.0	I
	1st floor	Lobby	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	ľ
	1st floor 1st floor	Lobby	4" Rec Can LED 9W A Exit Sign Combo LED	3	9	LED 9W A19 Replacement	3	10 3	0.0	0.0	+
	1st floor 1st floor	Reception	Exit Sign Combo LED 2X4 Prism Rec 3L 32W T8	5	89	No Action - Existing Efficient/LED Fixture RT, 4' 10.5W DE LED 3L	5	32	0.0	0.0	+
	1st floor	Private Office	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.4	0.1	$\uparrow$
eld Kindley High School & Clinic 1	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	I
	1st floor	Hallway	2X4 Prism Rec 3L 32W T8	6	89	RT, 4' 10.5W DE LED 3L	6	32	0.5	0.2	ľ
	1st floor 1st floor	Hallway Hallway	Exit Sign Combo LED	1 1	3	No Action - Existing Efficient/LED Fixture  No Action - Emergency Use Only	1 1	3	0.0	0.0	+
	1st floor 1st floor	Private Office / Exam	Emergency Fixture 2X4 Prism Rec 3L 32W T8	2	89	No Action - Emergency Use Only RT, 4' 10.5W DE LED 3L	2	32	0.0	0.0	+
	1st floor	Exam	2X4 Prism Rec 3L 32W T8	2	89	RT, 4' 10.5W DE LED 3L	2	32	0.2	0.1	$\uparrow$
eld Kindley High School & Clinic 1		Janitor Closet	4' Strip BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L	1	21 42	0.1	0.0	1



	Location		Existing Fi	xture		Proposed Fix	ture			kW	
Building	Floor	Room	Fixture	Quantity	Input	ECM	Quantity	Input	Pre	Post	Sav
					Wattage			Wattage			_
Field Kindley High School & Clinic Field Kindley High School & Clinic	1st floor 1st floor	Exam 1 Private Office	2X4 Prism Rec 4L 32W T8 2X4 Prism Rec 3L 32W T8	2	112 89	RT, 4' 10.5W DE LED 4L RT, 4' 10.5W DE LED 3L	2	42 32	0.1	0.0	+
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	+
ield 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	
ield 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	
ield 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	╄
Roosevelt Middle School	Exterior	Side Walk	Flood LED 100W	2	100	No Action - Existing Efficient/LED Fixture	2	100	0.2	0.2	╀
Roosevelt Middle School	Exterior	Hallway Door	Canopy LED 10W	1	10	No Action - Existing Efficient/LED Fixture	1	10	0.0	0.0	╀
Roosevelt Middle School Roosevelt Middle School	Exterior Exterior	Brick Wall - Sidewalk	Wall Pack LED 27W Corn Cob	1	27 10	Wall Pack LED FT TWX 5 kLm PC	1	36 10	0.1	0.1	+
Roosevelt Middle School	Exterior	Hallway Door Main Entrance	Canopy LED 10W Step Light LED 5W	8	5	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	8	5	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	+
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	$^{\dagger}$
Roosevelt Middle School	Exterior	Front Entrance	Canopy LED 10W	1	10	No Action - Existing Efficient/LED Fixture	1	10	0.0	0.0	I
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	$\perp$
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	$\perp$
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	╀
Roosevelt Middle School Roosevelt Middle School	1st floor 1st floor	Open Office Passage	Exit Sign Combo LED 2x2 Flat Panel Rec LED 39W	5	3 39	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	5	3 39	0.0	0.0	+
Roosevelt Middle School	1st floor	Passage	Emergency Fixture	1	0	No Action - Existing Efficient/LED Fixture  No Action - Emergency Use Only	1	0	0.0	0.2	+
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	+
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	$^{+}$
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	1
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	$\Box$
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	
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	1
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	+
Roosevelt Middle School Roosevelt Middle School	1st floor	Hallway	2X4 Prism Rec 2L 32W T8 BB 2X4 Prism Rec 2L 32W T8	4	59 59	RT, 4' 10.5W DE LED 2L BB	4	21	0.2	0.1	+
Roosevelt Middle School  Roosevelt Middle School	1st floor 1st floor	Vestibule Vestibule	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8 BB	1	59	RT, 4' 10.5W DE LED 2L RT. 4' 10.5W DE LED 2L BB	1	21	0.1	0.0	+
Roosevelt Middle School  Roosevelt Middle School	Level Below 1st Floor		2X4 Prism Rec 2L 32W 18 BB 4' Wrap BP 2L 32W T8	1	59	RT, 4' 10.5W DE LED 2L BB	1	21	0.1	0.0	+
Roosevelt Middle School	Level Below 1st Floor		8' Wrap BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	+
Roosevelt Middle School	Level Below 1st Floor		Globe Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	$\uparrow$
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	$^{\dagger}$
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	1
Roosevelt Middle School	Level Below 1st Floor		8' Vaportight BP 4L 32W T8	1	112	RT, 4' 10.5W DE LED 4L	1	42	0.1	0.0	Г
Roosevelt Middle School	Level Below 1st Floor		Emergency Fixture	1	0	No Action - Emergency Use Only	1	0	0.0	0.0	$\perp$
Roosevelt Middle School	Level Below 1st Floor		4' Wrap BP 4L 32W T8	5	112	RT, 4' 10.5W DE LED 4L	5	42	0.6	0.2	╄
Roosevelt Middle School	Level Below 1st Floor		8' Vaportight BP 4L 32W T8	2	112	RT, 4' 10.5W DE LED 4L	2	42	0.2	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	₩
Roosevelt Middle School  Roosevelt Middle School	Level Below 1st Floor Level Below 1st Floor		Globe Inc 60W A 4' Wrap BP 2L 32W T8	3	60 59	LED 9W A19 Replacement RT, 4' 10.5W DE LED 2L	3	10 21	0.2	0.0	+
Roosevelt Middle School	Level Below 1st Floor		Jelly Jar LED 9W A	1	9	LED 9W A19 Replacement	1	10	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	+
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	$^{+}$
Roosevelt Middle School	1st floor	Janitor Closet	Globe LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	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	1
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	$\Box$
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	$\perp$
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	╀
Roosevelt Middle School	Level Below 1st Floor		Globe LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	╀
Roosevelt Middle School  Roosevelt Middle School	Level Below 1st Floor		Keyless Inc 60W A	2 8	60 458	LED 9W A19 Replacement	2	10	0.1 3.7	0.0	₩
Roosevelt Middle School	Level Below 1st Floor Level Below 1st Floor		High Bay MH 400W 8' Wrap BP 4L 32W T8	3	112	High Bay Compact LED 18 kLm, WG RT. 4' 10.5W DE LED 4L	8	42	0.3	0.1	+
Roosevelt Middle School	Level Below 1st Floor		Globe LED 9W A	1	9	LED 9W A19 Replacement	1	10	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	$^{+}$
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	1
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	$\Box$
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	
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	$\perp$
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	╀
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	╀
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	+
Roosevelt Middle School  Roosevelt Middle School	1st floor 1st floor	Janitor Closet Hallway by Exit	Keyless Inc 60W A 2X4 Prism Rec 2L 32W T8	1	60 59	LED 9W A19 Replacement RT, 4' 10.5W DE LED 2L	1	10 21	0.1	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 RT, 4' 10.5W DE LED 2L BB	2	21	0.1	0.0	+
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	t
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	j
Roosevelt Middle School	1st floor	Storage	Globe Inc 60W A	2	60	LED 9W A19 Replacement	2	10	0.1	0.0	Γ
Roosevelt Middle School	Level Below 1st Floor		4' Wrap BP 4L 32W T8	6	112	RT, 4' 10.5W DE LED 4L	6	42	0.7	0.3	L
Roosevelt Middle School	Level Below 1st Floor		8' Vaportight BP 4L 32W T8	2	112	RT, 4' 10.5W DE LED 4L	2	42	0.2	0.1	ľ
Roosevelt Middle School	Level Below 1st Floor		Globe Inc 60W A	2	60	LED 9W A19 Replacement	2	10	0.1	0.0	+
Roosevelt Middle School	Level Below 1st Floor		Globe Inc 60W A	2	60	LED 9W A19 Replacement	2	10	0.1	0.0	+
Roosevelt Middle School  Roosevelt Middle School	Level Below 1st Floor Basement	Vestibule to Gym  Mechanical Room	2' Wrap 1L 32W U6 T8 4' Wrap BP 2L 32W T8	1 12	31 59	2' Wrap 2' 7W LED 2L RT, 4' 10.5W DE LED 2L	1 12	14 21	0.0	0.0	+
Roosevelt Middle School	Basement	Electrical Room	4' Wrap BP 2L 32W 18 8' Strip LED 65W	12	65	No Action - Existing Efficient/LED Fixture	12	65	0.7	0.3	+
Roosevelt Middle School	Basement	Mechanical Room	8' Wrap BP 4L 32W T8	3	112	RT, 4' 10.5W DE LED 4L	3	42	0.1	0.1	+
Roosevelt Middle School	Basement	Mechanical Room	Keyless LED 9W A	1	9	LED 9W A19 Replacement	1	10	0.0	0.0	$\dagger$
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	İ
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	I
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	Ĺ
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	Ŧ
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	+
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	+
Roosevelt Middle School	1st floor	Classroom - 103 - Music - Storage Room		4	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	+
	1st floor 1st floor	Classroom - 103 - Music - Closet Classroom - 104	Jelly Jar Inc 60W A 2X4 Prism Rec 3L 32W T8 DS	20	90	LED 9W A19 Replacement RT, 4' 10.5W DE LED 3L	20	10 32	0.1 1.8	0.0	+
Roosevelt Middle School	1st floor	Classroom - 104 - Storage Closet	2X4 Prism Rec 3L 32W T8 US 2X4 Prism Rec 2L 32W T8	1	59	RT, 4 10.5W DE LED 3L RT, 4 10.5W DE LED 2L	1	21	0.1	0.0	+
Roosevelt Middle School Roosevelt Middle School		Classroom - 106	2X4 Prism Rec 3L 32W T8 DS	14	90	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 3L	14	32	1.3	0.4	+
Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School			Keyless Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	$\uparrow$
Roosevelt Middle School Roosevelt Middle School	1st floor 1st floor				90	RT, 4' 10.5W DE LED 3L	14	32	1.3	0.4	+
Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School	1st floor	Classroom - 106 - Storage Closet Classroom - 107	2X4 Prism Rec 3L 32W T8 DS	14		-					
Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School	1st floor 1st floor	Classroom - 106 - Storage Closet	·	14	59	RT, 4' 10.5W DE LED 2L	4	21	0.2	0.1	t
Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School	1st floor 1st floor 1st floor	Classroom - 106 - Storage Closet Classroom - 107	2X4 Prism Rec 3L 32W T8 DS		59 90	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 3L					Ė
Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School	1st floor 1st floor 1st floor 1st floor	Classroom - 106 - Storage Closet Classroom - 107 Classroom - 107 - Storage Closet Classroom - 108	2X4 Prism Rec 3L 32W T8 DS 2X4 Prism Rec 2L 32W T8	4		-	4	21	0.2	0.1	F
Roosevelt Middle School Roosevelt Middle School	1st floor 1st floor 1st floor 1st floor 1st floor 1st floor vel Between 1st and 2 rel Between 1st and 2	Classroom - 106 - Storage Closet   Classroom - 107   Classroom - 107 - Storage Closet   Classroom - 108   Stairs - NE   Dressing Room	2X4 Prism Rec 3L 32W T8 DS 2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 3L 32W T8 DS 4' Strip BP 2L 32W T8 2X2 Prism Rec 2L T8	4 12 1 3	90 59 33	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L RT, 2' 7W DE LED 2L	4 12 1 3	21 32 21 14	0.2 1.1 0.1 0.1	0.1	
Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School	1st floor 1st floor 1st floor 1st floor 1st floor 1st floor rel Between 1st and 2 rel Between 1st and 2 rel Between 1st and 2	Classroom - 106 - Storage Closet   Classroom - 107   Classroom - 107 - Storage Closet   Classroom - 108   Classroom - 108   Stairs - NE   Dressing Room   Vanity	2X4 Prism Rec 2L 32W T8 DS 2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 3L 32W T8 DS 4' Strip BP 2L 32W T8 2X2 Prism Rec 2L T8 Decorative Inc 25W G16.5 E12	4 12 1 3 50	90 59 33 25	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L RT, 2' 7W DE LED 2L LED 5W G16 E12 Replacement	12 1	21 32 21 14 5	0.2 1.1 0.1 0.1 1.3	0.1 0.4 0.0 0.0 0.0	
Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School	1st floor 1st floor 1st floor 1st floor 1st floor el Between 1st and 2 vel Between 1st and 2 vel Between 1st and 2 vel Between 1st and 2 vel Between 1st and 2	Classroom - 106 - Storage Closet Classroom - 107 - Storage Closet Classroom - 108 Classroom - 108 Stairs - NE Dressing Room Vanity Sink	2X4 Prism Rec 3L 32W T8 DS 2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 3L 32W T8 DS 4' Strip BP 2L 32W T8 2X2 Prism Rec 2L T8 2X2 Prism Rec 2L T8 2X3 Wall Bracket 2L 3' Wall Bracket 2L	4 12 1 3 50	90 59 33 25 66	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L RT, 2' 7W DE LED 2L LED 5W G16 E12 Replacement RT, 3' 12W DE LED 2L	4 12 1 3 50	21 32 21 14 5	0.2 1.1 0.1 0.1 1.3 0.1	0.1 0.4 0.0 0.0 0.3 0.0	
Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School	1st floor 1st floor 1st floor 1st floor 1st floor 1st floor el Between 1st and 2 vel Between 1st and 2 vel Between 1st and 2 vel Between 1st and 2 vel Between 1st and 2	Classroom - 106 - Storage Closet Classroom - 107 - Storage Closet Classroom - 108 Classroom - 108 Stairs - NE Dressing Room Vanity Sink Shower	2X4 Prism Rec 3L 32W T8 DS 2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 3L 32W T8 DS 4" Strip BP 2L 32W T8 2X2 Prism Rec 2L T8 Decorative Inc 25W G16.5 E12 3" Wall Bracket 2L 2X2 Prism Rec 2L T8	4 12 1 3 50 1	90 59 33 25 66 33	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L RT, 2' 7W DE LED 2L LED 5W G16 E12 Replacement RT, 3' 12W DE LED 2L RT, 2' 7W DE LED 2L	4 12 1 3 50 1	21 32 21 14 5 24	0.2 1.1 0.1 0.1 1.3 0.1 0.0	0.1 0.4 0.0 0.0 0.3 0.0 0.0	
Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School	1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 2st fl	Classroom - 106 - Storage Closet Classroom - 107 - Storage Closet Classroom - 107 - Storage Closet Classroom - 108 Classroom - 108 Staffs - NE Dressing Room Vanity Sink Shower Shower	2X4 Prism Rec 31. 32W T8 DS 2X4 Prism Rec 21. 32W T8 DS 2X4 Prism Rec 31. 32W T8 DS 4' Strip BP 21. 32W T8 2X2 Prism Rec 2L T8 Decorative Inc 25W G16.5 E12 3' Wall Bracket 21. 2X2 Prism Rec 2L T8 6' Rec Can Inc 60W A	4 12 1 3 50 1 1	90 59 33 25 66 33 60	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L RT, 2' TW DE LED 2L LED 5W G16 E12 Replacement RT, 3' 12W DE LED 2L LED 9W A19 Replacement	4 12 1 3 50 1 1	21 32 21 14 5 24 14	0.2 1.1 0.1 0.1 1.3 0.1 0.0 0.1	0.1 0.4 0.0 0.0 0.3 0.0 0.0 0.0	
Roosevelt Middle School Roosevelt Middle School	1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 4el Between 1st and 2 vel Between 1st and 2 vel Between 1st and 3 vel Between 1st an	Classroom - 106 - Storage Closet Classroom - 107 - Storage Closet Classroom - 108 Classroom - 108 Stairs - NE Dressing Room Vanity Sink Shower Shower Restroom	2x4 Prixm Rec 31. 32W T8 DS 2x4 Prixm Rec 21. 32W T8 2x4 Prixm Rec 21. 32W T8 2x4 Prixm Rec 31. 32W T8 2x5 Prixm Rec 31. 32W T8 2x7 Prixm Rec 2L T8 Decorative Inc 25W G16.5 E12 3 "Wall Bracket 2L 2x2 Prixm Rec 2L T8 6" Rec Can Inc 60W A 2x2 Prixm Rec 3. 32W U6 T8	4 12 1 3 50 1 1 1 1 1 1	90 59 33 25 66 33 60 59	RT, 4*10.5W DE LED 3L  RT, 2*7W DE LED 2L  RT, 2*7W DE LED 2L  LED 5W G16 E12 Replacement  RT, 3*12W DE LED 2L  RT, 2*7W DE LED 2L  LED 5W G18 Replacement  RT, 2*7W DE LED 2L  LED 5W G18 REPlacement  RT, 2*7W DE LED 2L  LED 5W G18 REPLACEMENT  RT, 2*7W DE LED 2L, 2-2X Reff Kit	4 12 1 3 50 1 1 1	21 32 21 14 5 24 14 10	0.2 1.1 0.1 0.1 1.3 0.1 0.0 0.1	0.1 0.4 0.0 0.0 0.3 0.0 0.0 0.0 0.0	
Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School	1st floor 1st floor 1st floor 1st floor 1st floor 1st floor lst floor lst floor lst floor lst floor lst floor lst floor lst floor lst floor lst floor lst floor lst floor lst floor lst floor lst and 2 led Between 1st and 2 led Between 1st and 2 led Between 1st and 2 led Between 1st and 2 led Between 1st and 2 led Between 1st and 2 led Between 1st and 2	Classroom - 106 - Storage Closet Classroom - 107 - Storage Closet Classroom - 107 - Storage Closet Classroom - 108 Stairs - NE Dressing Room Vanity Sink Shower Shower Restroom Dressing Room	2x4 Prism Rec 3t. 32W T8 DS 2x4 Prism Rec 2t. 32W T8 2x4 Prism Rec 3t. 32W T8 2x4 Prism Rec 3t. 32W T8 5x5 Prism Rec 3t. 32W T8 2x2 Prism Rec 2t. T8 Decorative Inc 25W G16.5 E12 3* Wall Bracket 2t. 2x2 Prism Rec 2t. T8 6* Rec Can Inc 60W A 2x2 Prism Rec 2t. 32W U6 T8 2x2 Prism Rec 2t. 32W U6 T8	4 12 1 3 50 1 1 1 1 1 5 5	90 59 33 25 66 33 60 59	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 2L RT, 2' 7W DE LED 2L LED 5W G16 E12 Replacement RT, 3' 12W DE LED 2L RT, 2' 7W DE LED 2L LED 5W A13 Replacement RT, 2' 7W DE LED 2L Z D 5W A13 Replacement RT, 2' 7W DE LED 2L, 2×2 Refl Kit RT, 2' 7W DE LED 2L, 2×2 Refl Kit	4 12 1 3 50 1 1 1 1 1 5 5	21 32 21 14 5 24 14 10 14	0.2 1.1 0.1 0.1 1.3 0.1 0.0 0.1 0.1 0.3	0.1 0.4 0.0 0.0 0.3 0.0 0.0 0.0 0.0 0.0	
Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School Roosevelt Middle School	1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 1st floor 4el Between 1st and 2 vel Between 1st and 2 vel Between 1st and 3 vel Between 1st an	Classroom - 106 - Storage Closet Classroom - 107 - Storage Closet Classroom - 107 - Storage Closet Classroom - 108 Stairs - NE Dressing Room Vanity Sink Shower Shower Restroom Dressing Room	2x4 Prixm Rec 31. 32W T8 DS 2x4 Prixm Rec 21. 32W T8 2x4 Prixm Rec 21. 32W T8 2x4 Prixm Rec 31. 32W T8 2x5 Prixm Rec 31. 32W T8 2x7 Prixm Rec 2L T8 Decorative Inc 25W G16.5 E12 3 "Wall Bracket 2L 2x2 Prixm Rec 2L T8 6" Rec Can Inc 60W A 2x2 Prixm Rec 3. 32W U6 T8	4 12 1 3 50 1 1 1 1 1 1	90 59 33 25 66 33 60 59	RT, 4*10.5W DE LED 3L  RT, 2*7W DE LED 2L  RT, 2*7W DE LED 2L  LED 5W G16 E12 Replacement  RT, 3*12W DE LED 2L  RT, 2*7W DE LED 2L  LED 5W G18 Replacement  RT, 2*7W DE LED 2L  LED 5W G18 REPlacement  RT, 2*7W DE LED 2L  LED 5W G18 REPLACEMENT  RT, 2*7W DE LED 2L, 2-2X Reff Kit	4 12 1 3 50 1 1 1	21 32 21 14 5 24 14 10	0.2 1.1 0.1 0.1 1.3 0.1 0.0 0.1	0.1 0.4 0.0 0.0 0.3 0.0 0.0 0.0 0.0	

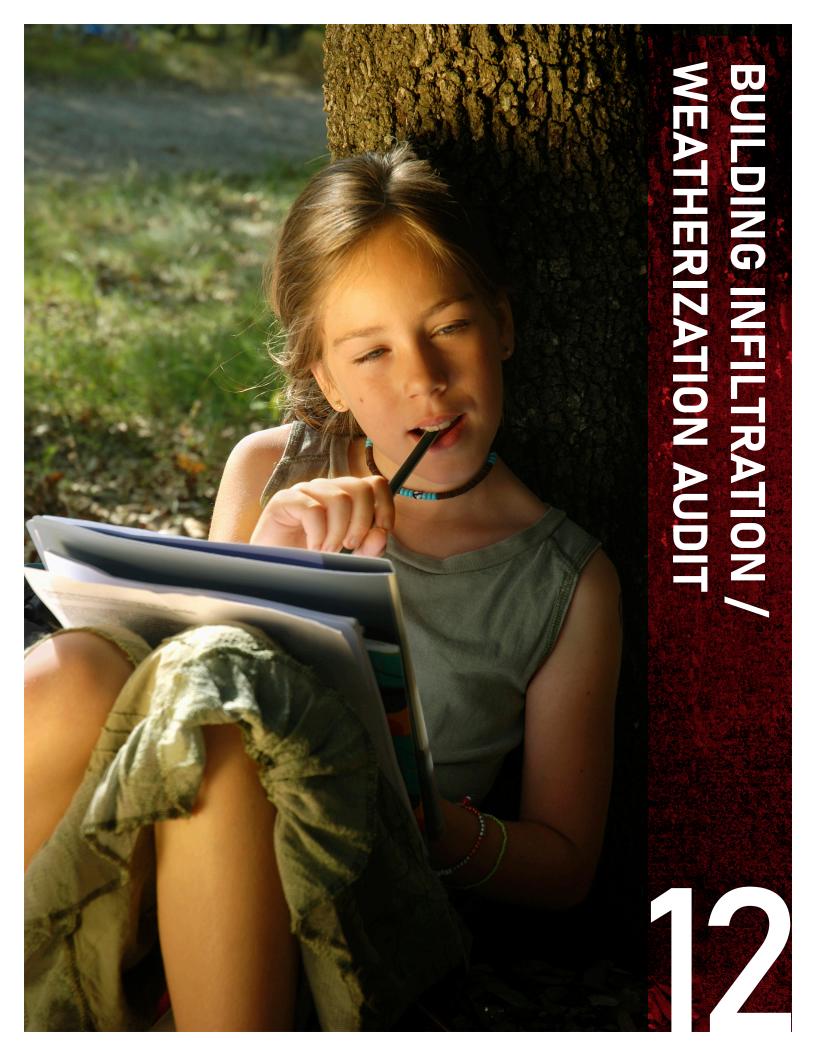


	Location		Existing	Fixture		Proposed Fi	kture			kW	
Building	Floor	Room	Fixture	Quantity	Input	ECM	Quantity	Input	Pre	Post	Sav
Roosevelt Middle School	vel Between 1st and 2		2x2 Prism Rec 2L 32W U6 T8	1	Wattage 59	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	1	Wattage 14	0.1	0.0	0
Roosevelt Middle School	vel Between 1st and 2	Shower	6" Rec Can Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	
Roosevelt Middle School	vel Between 1st and 2	Weight Room	Keyless LED 15W A	8	15	LED 16W A21 Replacement	8	16	0.1	0.1	
Roosevelt Middle School Roosevelt Middle School	vel Between 1st and 2	Electrical Closet	4' Strip BP 2L 4' Strip BP 2L 32W T8	1	72 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0
Roosevelt Middle School	vel Between 1st and 2	Stairs NW Dressing Room	2x2 Prism Rec 2L 32W U6 T8	3	59	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	3	14	0.1	0.0	+
Roosevelt Middle School	vel Between 1st and 2	Vanity	Decorative Inc 25W G16.5 E12	36	25	LED 5W G16 E12 Replacement	36	5	0.9	0.2	+
Roosevelt Middle School	vel Between 1st and 2	Restroom	3' Wall Bracket 2L	1	66	RT, 3' 12W DE LED 2L	1	24	0.1	0.0	
Roosevelt Middle School	vel Between 1st and 2	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	I
Roosevelt Middle School Roosevelt Middle School	vel Between 1st and 2	Shower	6" Rec Can Inc 60W A	1	60	LED 9W A19 Replacement RT. 2' 7W DE LED 2L. 2x2 Refl Kit	1	10	0.1	0.0	+
Roosevelt Middle School	vel Between 1st and 2	Dressing Room Restroom	2x2 Prism Rec 2L 32W U6 T8 2x2 Prism Rec 2L 32W U6 T8	5	59 59	RT, 2' 7W DE LED 2L, 2X2 Refi Kit	5	14	0.3	0.1	+
Roosevelt Middle School	vel Between 1st and 2	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	+
Roosevelt Middle School	vel Between 1st and 2	Shower	6" Rec Can Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	
Roosevelt Middle School	vel Between 1st and 2		3' Wall Bracket 2L	1	66	RT, 3' 12W DE LED 2L	1	24	0.1	0.0	$\perp$
Roosevelt Middle School	2nd Floor	Hallway by NE Stairwell 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	+
Roosevelt Middle School Roosevelt Middle School	2nd Floor 2nd Floor	Hallway by NE StairWell Hallway	2X4 Prism Rec 2L 32W T8 BB 2X4 Prism Rec 2L 32W T8	4	59 59	RT, 4' 10.5W DE LED 2L BB RT, 4' 10.5W DE LED 2L	4	21	0.1	0.0	+
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	+
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	I
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	$\perp$
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	╀
Roosevelt Middle School Roosevelt Middle School	2nd Floor 2nd Floor	Hallway Hallway	2X2 Prism Rec 4L T8 BB 2X4 Prism Rec 2L 32W T8	9	61 59	RT, 2' 7W DE LED 2L, 2x2 Refl Kit BB RT, 4' 10.5W DE LED 2L	9	14 21	0.1	0.0	+
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	+
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	I
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	
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	+
Roosevelt Middle School Roosevelt Middle School	2nd Floor 2nd Floor	Hallway Stairwell Up	2X2 Prism Rec 4L T8 BB 4' Strip BP 2L 32W T8	1	61 59	RT, 2' 7W DE LED 2L, 2x2 Refl Kit BB RT. 4' 10.5W DE LED 2L	1	14 21	0.1	0.0	+
Roosevelt Middle School	2nd Floor 2nd Floor	Stairwell Up Hallway	4" Strip BP 2L 32W 18 2X4 Prism Rec 2L 32W T8	4	59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	4	21	0.1	0.0	+
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	T
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	
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	I
Roosevelt Middle School	2nd Floor	Hallway by NW Stairwell Classroom 201	2X4 Prism Rec 2L 32W T8 BB 2X4 Prism Rec 3L 32W T8 DS	8	59 90	RT, 4' 10.5W DE LED 2L BB	1 8	21	0.1	0.0	+
Roosevelt Middle School Roosevelt Middle School	2nd Floor 2nd Floor	Classroom 201 Classroom 202	2X4 Prism Rec 3L 32W T8 DS 2X4 Prism Rec 3L 32W T8 DS	15	90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	15	32 32	0.7 1.4	0.3	+
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	+
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	
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	$\perp$
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	╀
Roosevelt Middle School Roosevelt Middle School	2nd Floor 2nd Floor	Private Office Classroom 205	2X4 Prism Rec 3L 32W T8 DS 2X4 Prism Rec 4L 32W T8	4	90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 4L	4	32 42	0.4	0.1	+
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	+
Roosevelt Middle School	2nd Floor	Storage Closet	Keyless Inc 60W A	1	60	LED 9W A19 Replacement	1	10	0.1	0.0	I
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	$\perp$
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	╀
Roosevelt Middle School Roosevelt Middle School	2nd Floor 2nd Floor	Central Stairwell Classroom 207	Wall Sconce LED 9W A 2X4 Flat Panel Rec LED 48W	6	9 48	LED 9W A19 Replacement  No Action - Existing Efficient/LED Fixture	6	10 48	0.0	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	+
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	
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	$\perp$
Roosevelt Middle School Roosevelt Middle School	2nd Floor 2nd Floor	Classroom 213 - Home Ec	2X4 Prism Rec 3L 32W T8 DS	12	90 59	RT, 4' 10.5W DE LED 3L RT. 4' 10.5W DE LED 2L	12	32 21	0.1	0.4	+
Roosevelt Middle School	2nd Floor 2nd Floor	Storage Closet Private Office	4' Wrap BP 2L 32W T8 4' Wrap BP 2L 32W T8	2	59	RT, 4' 10.5W DE LED 2L	2	21	0.1	0.0	+
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	$^{\dagger}$
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	T
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	╄
Roosevelt Middle School Roosevelt Middle School	3rd Floor 3rd Floor	Hallway by NE Stairwell Hallway by NE Stairwell	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8 BB	1 1	59 59	RT, 4' 10.5W DE LED 2L RT. 4' 10.5W DE LED 2L BB	1	21	0.1	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	+
Roosevelt Middle School	4th Floor	Storage Closet	Globe Inc 150W A	1	150	LED 9W A19 Replacement	1	10	0.2	0.0	$^{\dagger}$
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	T
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	╀
Roosevelt Middle School Roosevelt Middle School	3rd Floor 3rd Floor	Girl's Restroom Stairwell SE	2X4 Prism Rec 2L 32W T8 4' Strip BP 2L 32W T8	6	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	6	21	0.4	0.1	+
Roosevelt Middle School	3rd Floor	Stairweii SE Hallway	2X2 Prism Rec 4L T8	5	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit	5	14	0.1	0.0	+
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	T
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	Ţ
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	+
Roosevelt Middle School Roosevelt Middle School	3rd Floor 3rd Floor	Hallway Hallway	2X2 Prism Rec 4L T8 2X2 Prism Rec 4L T8 BB	5	61	RT, 2' 7W DE LED 2L, 2x2 Refl Kit RT, 2' 7W DE LED 2L, 2x2 Refl Kit BB	5	14	0.3	0.1	+
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	$^{\dagger}$
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	T
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	+
Roosevelt Middle School Roosevelt Middle School	3rd Floor 3rd Floor	Boy's Restroom Hallway by NW Stairwell	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec 2L 32W T8	6	59 59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L	6	21	0.4	0.1	+
Roosevelt Middle School	3rd Floor	Hallway by NW Stairwell	2X4 Prism Rec 2L 32W 18 2X4 Prism Rec 2L 32W T8 BB	1	59	RT, 4' 10.5W DE LED 2L RT, 4' 10.5W DE LED 2L BB	1	21	0.1	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	T
Roosevelt Middle School	4th Floor	Private Office - Custodial	4' Wrap BP 4L 32W T8	2	112	RT, 4' 10.5W DE LED 4L	2	42	0.2	0.1	T
Roosevelt Middle School	4th Floor	Stairwell NW	4' Wrap BP 2L 32W T8	1 0	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	+
Roosevelt Middle School Roosevelt Middle School	3rd Floor 3rd Floor	Classroom 301 Classroom 302	2X4 Prism Rec 3L 32W T8 DS 2X4 Prism Rec 3L 32W T8 DS	9 12	90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	9 12	32 32	0.8	0.3	+
Roosevelt Middle School	3rd Floor	Classroom 302 - Break Room	2X4 Prism Rec 3L 32W 18 DS 2X4 Prism Rec 3L 32W T8 DS	6	90	RT, 4' 10.5W DE LED 3L	6	32	0.5	0.4	+
Roosevelt Middle School	3rd Floor	Classroom 304	2X4 Prism Rec 3L 32W T8 D3	11	89	RT, 4 10.5W DE LED 3L	11	32	1.0	0.2	$^{\dagger}$
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	I
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	F
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	+
Roosevelt Middle School Roosevelt Middle School	3rd Floor 3rd Floor	Storage Closet Classroom 308	Globe Inc 150W A 2X4 Prism Rec 3L 32W T8	9	150 89	LED 9W A19 Replacement RT, 4' 10.5W DE LED 3L	9	10 32	0.2	0.0	+
Roosevelt Middle School	3rd Floor	Classroom 309	2X4 Prism Rec 3L 32W 18 2X4 Prism Rec 3L 32W T8 DS	6	90	RT, 4' 10.5W DE LED 3L RT, 4' 10.5W DE LED 3L	6	32	0.8	0.3	+
Roosevelt Middle School	3rd Floor	Storage Closet	Keyless Empty E26	1	0	LED 9W A19 Replacement	1	10	0.0	0.0	T
Roosevelt Middle School	3rd Floor	Classroom 310	2X4 Prism Rec 3L 32W T8 DS	10	90	RT, 4' 10.5W DE LED 3L	10	32	0.9	0.3	I
Roosevelt Middle School	3rd Floor	Classroom 311	2X4 Prism Rec 3L 32W T8 DS	12	90	RT, 4' 10.5W DE LED 3L	12	32	1.1	0.4	F
Roosevelt Middle School	3rd Floor	Library	2X4 Prism Rec 4L 32W T8	6	112	RT, 4' 10.5W DE LED 4L	6	42	0.7	0.3	+
Roosevelt Middle School Roosevelt Middle School	3rd Floor 3rd Floor	Library Storage Room	2X4 Prism Rec 2L 32W T8 Keyless LED 9W A	14	59	RT, 4 <sup>1</sup> 10.5W DE LED 2L LED 9W A19 Replacement	14	21 10	0.8	0.3	+
Roosevelt Middle School	3rd Floor 3rd Floor	Storage Room Seating	Drum LED 9W A	2	9	No Action - Existing Efficient/LED Fixture	2	9	0.0	0.0	+
Roosevelt Middle School	3rd Floor	Seating	Decorative LED 9W A	18	9	No Action - Existing Efficient/LED Fixture	18	9	0.2	0.0	$^{\dagger}$
Roosevelt Middle School	3rd Floor	Cove Uplights	Keyless LED 9W A	49	9	No Action - Existing Efficient/LED Fixture	49	9	0.4	0.4	I
Roosevelt Middle School	3rd Floor	Cove Uplights	Keyless LED 9W A	80	9	No Action - Existing Efficient/LED Fixture	80	9	0.7	0.7	T
Roosevelt Middle School	4th Floor	Balcony	Wall Sconce LED 9W A	6	9	No Action - Existing Efficient/LED Fixture	6	9	0.1	0.1	Ļ
Roosevelt Middle School Roosevelt Middle School	4th Floor	Balcony	Drum LED 9W A	6	9	No Action - Existing Efficient/LED Fixture	6	9	0.1	0.1	+
	4th Floor	Control Room	Keyless Inc 150W A 2L	1 1	300	LED 9W A19 Replacement 2L	1	19	0.3	0.0	1



	Location		Existing Fi	xture		Proposed Fix	ture			kW	
Building	Floor	Room	Fixture	Quantity	Input	ECM	Quantity	Input	Pre	Post	Savings
Roosevelt Middle School	3rd Floor	Passage	Keyless LED 9W A	1	Wattage 9	No Action - Existing Efficient/LED Fixture	1	Wattage 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 USD 455 Food Service Building	1st Floor 1st Floor	Cafeteria Cafeteria	2X4 Flat Panel Rec LED 48W BB 2x2 Flat Panel Rec LED 39W	1	48	No Action - Existing Efficient/LED Fixture No Action - Existing Efficient/LED Fixture	7	48 39	0.3	0.3	0.0
USD 455 Food Service Building USD 455 Food Service Building	1st Floor	Cafeteria	Exit Sign Combo LED	2	39	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	2	39	0.0	0.0	0.0
USD 455 Food Service Building	1st Floor	Cafeteria	Emergency Fixture	1	0	No Action - Existing Efficient/LED Fixture  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' Vaportight 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 1	59	RT, 4' 10.5W DE LED 2L	1	21	0.1	0.0	0.0
USD 455 Food Service Building USD 455 Food Service Building	1st Floor 1st Floor	Passage / Vestibule	2X4 Prism Rec 2L 32W T8 2X4 Prism Rec LED 37W	20	59 37	RT, 4' 10.5W DE LED 2L	20	21 37	0.1	0.0	0.0
USD 455 Food Service Building	Exterior	Serving	8" Rec Can MV 100W	9	125	No Action - Existing Efficient/LED Fixture	9	25	1.1	0.7	0.0
USD 455 Food Service Building	Exterior	Canopy Patio Wall and Doorway	Wall Pack LED 15W	2	15	RC LED Retrofit Kit 2000 Lm 8" Adj. 2000 Lm No Action - Existing Efficient/LED Fixture	2	15	0.0	0.2	0.9
USD 455 Food Service Building	Exterior	Side Wall by Gym	Wall Pack LED 15W	1	125	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	1	125	0.0	0.0	0.0
USD 455 Food Service Building	Exterior	Side Wall by Gym	Wall Pack LED 125W Wall Pack LED 9W A	1	9	Wall Pack LED FT TWX 1.6 kLm PC	1	111	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/I 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	Façade Sign	RLM 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 Flood LED 20W	1	46 20	No Action - Existing Efficient/LED Fixture	1	46 20	0.0	0.0	0.0
Field Kindley Technical Academy Field Kindley Technical Academy	Exterior 1st Floor	Flag Utility Shed	Flood LED 20W 4' Strip BP 2L 32W T8	2	20 59	No Action - Existing Efficient/LED Fixture RT, 4' 10.5W DE LED 2L	3 2	20	0.1	0.1	0.0
Field Kindley Technical Academy Field Kindley Technical Academy	1st Floor Exterior	Back Door	4" Strip BP 2L 32W 18 Wall Pack LED 46W	1	46	No Action - Existing Efficient/LED Fixture	1	46	0.1	0.0	0.1
Field Kindley Technical Academy	Exterior	Parking Lot	Shoebox LED 155W	2	155	No Action - Existing Efficient/LED Fixture  No Action - Existing Efficient/LED Fixture	2	155	0.0	0.0	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	0.3	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	0.0	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	0.2	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		Back Wall	Wall Pack LED 9W A		9	Wall Pack LED FT TWX 5 kLm PC	1	36		0.0	0.0









Customer Contact ----

Lee Piveral

# **Audit / Proposal**

to

#### **Navitas**

25618 w 103rd street olathe ks 66061

913-344-0039 Ipiveral@navitas.us.com

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 indicting 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.





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

#### **ASSUMPTIONS & CALCULATIONS:**

Power Rate per Kwh
Heating Fuel 100% Natural Gas perTherm

Building K 130

**Example Calculation** 

(leakage x bldg "K") x (wind P factor) x (HDD x 24 x 60) x (.075) x (.243)













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:**

493 Annual Cost of Leakage (Therms): 182 Annual Cost of Leakage (Kwh):

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 6 Doors

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

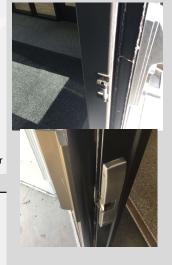
#### **ASSUMPTIONS & CALCULATIONS:**

Power Rate per Kwh 100% Natural Gas **Heating Fuel** perTherm

Building K 130

**Example Calculation** 

(leakage x bldg "K") x (wind P factor) x (HDD x 24 x 60) x (.075) x (.243)









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 Levelquantity or distanceExt. Door(s) to be weather-stripped & sealed.First67 DoorsOver-head Door(s) to be sealed on 4 sides.First1 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** 

(leakage x bldg "K") x (wind P factor) x (HDD x 24 x 60) x (.075) x (.243)





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 condioner covers to be installed. Interior main foyer dorr 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** 

(leakage x bldg "K") x (wind P factor) x (HDD x 24 x 60) x (.075) x (.243)





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

(leakage x bldg "K") x (wind P factor) x (HDD x 24 x 60) x (.075) x (.243)





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:
 Building Level
 quantity or distance

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

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

AIR LEAKAGE:	feet	inches		
Doors	24	3/32	0.19	sq ft
Doors	100	3/32	0.78	sa 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** 

(leakage x bldg "K") x (wind P factor) x (HDD x 24 x 60) x (.075) x (.243)





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:	<b>Building Level</b>	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	sa 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** 

(leakage x bldg "K") x (wind P factor) x (HDD x 24 x 60) x (.075) x (.243)





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..

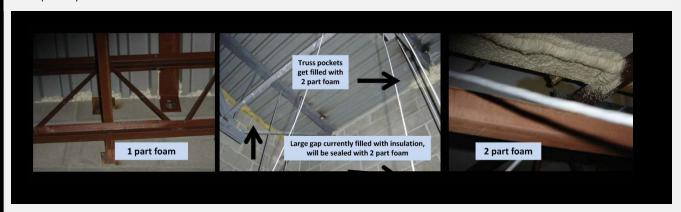
We utilize caulk(s) that carry a 50 year warranty from the manufacturer. If properly placed, and applied in areas with typical/standard exposures to UV, etc, the material will perform well for the expected life.

Our door sealing materials consist of a heavy metal aluminum carrier, and strip of Q-lon 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





			. 1									FIELD	KINDLE	Y HIGH S	CHOOL 8	& CLINIC	· INPUT / C	OUTPUT S										1			
State   Stat	11 3	BACnet IP BACnet MSTP LonWorks Modbus	ZigBee Outdoor Air Temp Outdoor Air Humidity	Space Temp Setpoint (Adj) Return Air Temp Mixed Air Temp Enthalpy Wheel EAT	Enthalpy Wheel LAT Enthalpy Wheel Exhaust Air Temp Cooling Coil DAT	Heating Coll DAT Discharge Air Temp Space Humdity Return Air Humlity	Discharge Air Humidity Space CO2 Return Air CO2	Duct State Pressure Ar Fitter Differential Pressure Outside Air Damper Position Return Air Damper Position	VAV Damper Position Aurilow Flow Measurement Space Static Pressure	Supply Water Temp Return Water Temp Offerential Pressure (ps) Bypass Damper Position	Het Water Valve Position Suction Pressure Gas Line Refrigerant Temp	Stean Expansion Valve Position Cooling Tower Water Level Supply Fan Speed (VFD or ECM)	Exhaust Fan Speed (VFD or ECM) Outside Air Damper Position Return Air Damper Position	Hat/Cold Deck Damper Position Chilled Water Valve Position Hat Water Valve Position Gas Heat Modulation	Duct State Pressure Serpoint  Cooling Modulation (Variable Speed Comp)  Hot Gas Reheat Modulation  Pump Speed (VFD)	Bypass Damper Position VAV Damper Position VAV Afflow Setpoint	Return Air Smoke Detector Supply Air Smoke Detector Low Temperature Alarm High Temperature Alarm	High Pressure Alarm General Alarm Suppiy Fan Status	Supply Fill Settles, wecount, right) Return Fan Status Exhaust Fan Status Enthalpy Wheel Status	Pump status Cooling Tower Fan Status Compressor Status (Each Stage)	Boiler Status Boiler Alam Chiller Status Chiller Alam	Mode (Heating, Cooling, Auto) HOA Switch Position (Hand, Off, Auto) Local Switch Position On/Off Control Control States	Start/Stop Supply Fan Start/Stop Supply Fan Speed (Low, Medium, High)	Return's an Sart/Stop Exhaust Fan Start/Stop Enthaligy Wheel Start/Stop Outside Air Damper Open/Gose Return Air Damper Open/Gose	Exhaust Air Damper Open/Gose Finthalpy Wheel Bypass Damper Open/Cose Mode (Heating, Cooling, Auto) Cooling Stages On/Off (Each Stage)	Heating Stages On/Off (Each Stage) Het-Gas Reheat On/Off Condenser Water Valve Open/Glose	Reversing Valve (Heat or Cool Mode) Isolation Valve Open/Close Cooling Tower OA Damper Open/Close Cooling Tower Fan On/Off	Cooling Tower Spray Pump On/Off Schedding Occupancy Override	Unoccupied Settu/Setback Optimal Start/Stop Economizer Demand Controlled Ventilation	Dehumidification Continuous Fan Operation Supply Air Temperature Reset Supply Water Temp Reset Static Proseure Reset	reeza Protection (Pump Start/Stop)
Column   C	BUILDING GLOBAL POINTS																														
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									FIELD	KINDLE	HIGH SC	HOOL	& CLINIC	- INPU	T / OUT	PUT S	SUMMARY	TABLE												
	INTEGRATION			A	NALOG INPUTS						ANALOG OUTPUT						DIGITAL INPI					DIG	ITAL OUTPUTS				SOFTWAR	RE / PROGRAMMING	5	
Equipment Tag	ACnet IP ACnet IMSTP onWorks footbus	utdoor Au Temp utdoor Au Temp utdoor Au Temp utdoor Au Temp utdoor Au Temp utdoor Au Temp utdoor Au Temp utdoor Au Temp utdoor Au Temp utdoor Au Temp utdoor Au Temp	nthalpy Wheel Exhaust Air Temp ooling Coil DAT easing Coil DAT Schage Air Temp	eturn Air Humidity ischarge Air Humidity pace CO.2	uct Static Pressure Ir Filter Differential Pressure utside Air Damper Position eturn Air Damper Position	AV Damper Position irflow Iow Messurement	upply Water Temp ettum Water Temp fferential Pressure (psi) pass Damper Position ot Water Valve Position	uction Pressure as Line Refrigerant Temp quid Line Refrigerant Temp	team Expansion Valve Position oding Tower Water Level upply Fan Speed (VFD or ECM)	khaust Fan Speed (VFD or ECM) utside Air Damper Position eturn Air Damper Position	hiled Water Valve Position ot Water Valve Position as Heat Modulation	ooling Modulation (Variable Speed Comp) ot Gas Reheat Modulation ump Speed (VFD)	ypass Damper Position AV Damper Position AV Airflow Setpoint	ccupancy Override eturn Air Smoke Detector upply Air Smoke Detector	ow Temperature Alarm igh Temperature Alarm igh Pressure Alarm	eneral Alarm upply Fan Status	uppy ran setus (Low, weedum), right) eturn Fan Status khaust Fan Status inthalpy Wheel Status	ooling Tower Fan Status ompressor Status (Each Stage)	oiler Status oiler Alarm hiller Status hiller Alarm	fode (Heating, Cooling, Auto) OA Switch Position (Hand, Off, Auto) ocal Switch Position On/Off nable/Disable	art/Stop upply Fan Start/Stop upply Fan Speel (Low, Medium, High) etum Fan Start/Stop	nthalpy Wheel Start/Stop utside Air Damper Open/Close eturn Air Damper Open/Close	knäust Air Damper Uper/Juose nthalpy Wheel Bypass Damper Open/Close fode (Heating, Cooling, Auto) ooling Stages On/Off (Each Stage)	ot-Gas Reheat On/Off onderser Water Valve Open/Close eversing Valve (Heat or Cool Mode)	olation Valve Open/Close ooling Tower OA Damper Open/Glose ooling Tower Fan On/Off	ooling Tower Spray Pump On/Off cheduling ccupancy Override	noccupied Setup/Setback ptimal Start/Stop conomizer	emand Controlled Ventilation ehumidification ontinuous Fan Operation upply Air Temperature Reset	upply Water Temp Reset tatic Pressure Reset reeze Protection (Pump Start/Stop)	NOTES
Blower Coil Unit	0 0 2 2	N 0 0 0 0 0 0 0 0 0 0			10141012	>   4   11   5	V K D W I		1010101	100012	CIOITIGIA	DIUITIA		اهاعان	2 IIIII	0 0 0	7 2 1 1 1 1 1 1 1	. 101015	1 1 1 1 1 1 1 1 1 1	2   I   J   0	شا عدا قدا قدا			IIIOI	<u>∞</u>  0 0	0 0 0	>101m1		SSE	NOTES
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	INTEGRATION				ANALO	OG INPUTS							ANALOG O					_	DIGITAL INPUT						DIGITAL OUT	TPUTS				SOFTWARE	/ PROGRAMMI	ING	
Equipment Tag		space temp Space Temp Setpoint (Adj) Meed run Temp Meed run Temp Enthalpy Wheel EAT		Discharge Air Temp Space Humidity Return Air Humidity	Discharge Air Humidity Space CO2 Return Air CO2 Out Static Pressure	Air Filter Differential Pressure Outside Air Damper Position Return Air Damper Position	VAV Damper Position Airflow Flow Measurement Scarce Static Presente	Supply Water Temp Return Water Temp Differential Pressure (psi)	Bypass Damper Position Hot Water Valve Position Suction Pressure	Gas Line Refrigerant Temp Liquid Line Refrigerant Temp Boiler Modulation %	Steam Expansion Valve Position Cooling Tower Water Level Supply Fan Speed (VFD or ECM) Beaum Ean Sneed (VFD or ECM)	Exhaust Fan Speed (VFD or ECM) Outside Air Damper Position Return Air Damper Position	Hot/Cold Deck Damper Position Chilled Water Valve Position Hot Water Valve Position	Gas Heat Modulation Duct Static Pressure Setpoint Cooling Modulation (Variable Speed Complete Case Reheat Modulation	Fumb Speed (VFLD) Bypass Damper Position VAV Damper Position VAV Airflow Setpoint	Occupancy Override Return Air Smoke Detector Supply Air Smoke Detector	High Pressure Alarm High Pressure Alarm	Supply Fan Status Supply Fan Status (Low, Medium, High) Return Fan Status	Exhaust Fan Status Enthalpy Wheel Status Pump Status	Cooling Tower Fan Status Compress or Status (Each Stage) VFD Alarm	Boller Status Boller Alarm Chiller Status	Chiler Alarm Mode (Heating, Cooling, Auto) HOA Switch Position (Hand, Off, Auto) Local Switch Position On/Off	enalek/Usable Start/Stop Supply Fan Start/Stop Supply Fan Speed (Low, Medium, High)	Return Fan Start/Stop Exhaust Fan Start/Stop Enthalpy Wheel Star/Stop	Outside Air Damper Open/Gose Return Air Damper Open/Close Exhaust Air Damper Open/Gose Enthalpy Wheel Bypass Damper Open/Clo	Mode (Heating, Cooling, Auto) Cooling Stages On/Off (Each Stage) Heating Stages On/Off (Each Stage)	Heating Stages On/Off (Each Stage) Hot-Gas Reheat On/Off Condenser Water Valve Open/Gose Reversing Valve (Heat or Cool Mode)	toolation Valve Open/Close Cooling Tower OA Damper Open/Close Cooling Tower Fan On/Off	Cooling Tower Spray Pump On/Off Scheduling Occupancy Override	Unoccupied Setup/Setback Optimal Start/Stop Economizer	Demand Controlled Ventilation Dehumidification Continuous Fan Operation	Supply Air Temperature Reset Supply Water Temp Reset Static Press ure Reset Freeze Protection (Pump Start/Stop)	NOTES
ECM #32 - BUILDING AUTOMATION BUILDING GLOBAL POINTS																												1 1 1 1					
Boiler Heating HW																																	
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Gylcol Feed Pump																																	
Glycol Feed Pump																	)																
RTU, VAV RTU (MZ) RTU-M2		X X																															
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FT-M105 FT-M105A		x x		X X	X		X X		X				X		X X	X	( X )						Y Y						X X				
FT-M106		x x x		X X X	X		X X X	х	X				X		X X	X >	X X )						x x						X X X	X X			
FT-M107 FT-M108		x x		X X	X		x x	*	х				X		X X	X	( X )						X X						X X	X X			
FT-M109 FT-M110		X X X		X X X X	X		X X X		X				X		X X	X >	( X )	1					x x x						X X X X	X X X X			
FT-M111 FT-M112		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	x x x			
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FT-M203 FT-M204		x   x		X X	X X		x x x x		X				X X		X X	X	( X )						x x						X X X X				
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FT-M210 FT-M210A		X X		X X	X		x x x x		X				X		X X	X	( X )						х						X X				
FT-M211 FT-M212		x x x		X X X	X		x x x	х	X				X X		x x x x	X	( X )		$\pm$				x x x			$\pm$			X X	X X			
FT-M301 FT-M302		x x x x	$+\Box$	X X X X	X		x x x x x	++	X X	++	HH	++	X X	$++\mp$	x x x x	X X	( X )		$+ \mp$	$\Box$	$+ \Box$	$++\mp$	x x x x	$++\mp$	+	+	$+\Box$	$++\mp$	X X X X	x x x	+ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$		
FT-M303 FT-M304		X X X		X X X	X		x x x		X				X		X X	X	( X )						x x						X X	X X			
FT-M305 FT-M305		x x		X X	X		X X X		X				X		X X	X	( X )						x x				+		X X	X X			
FT-M306 FT-M307 FT-M308		X X X		X X	X		хх		X				X		X X	X	( X )						X X						X X	X X			
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									-	ROOSEVE	LT MIDDLE	SCHO	OL - INP	PUT / OL	JTPUT S	UMMAF	RY TAB	LE													
-	INTEGRATION			ANALO	OG INPUTS						ANALOG OUTPUTS			0.700	,		DIGITAL INPU						DIGITA	LOUTPUTS				SOFTWARE / PF	OGRAMMING		
Equipment Tag	ACnet IP ACnet MSTP onWorks rodbus	utdoor Au'Temp utdoor Au'Temp pace Temp pace Temp pace Temp sace tem Setpoint (Adj) kied Ai'Temp kied Ai'Temp hinday Wheel LAT	nthalpy Wheel Echaust Air Temp coling Ceil DAT eeting Ceil DAT eeting Ceil DAT schaige Air Temp pace Humidity	ischarge Air Humidity pace CO.2 eturn Air CO.2 uct Static Pressure	ir Filter Differential Pressure uuside Air Damper Position eturn Air Damper Position	AV Damper Position Irflow Iow Messurement pace Static Pressure	upply Water Temp eturn Water Temp ifferential Pressure (ps) ypass Damper Position	ou valer valve rosition uction Pressure as Line Refrigerant Temp	oiler Modulation % team Expansion Valve Position oding Tower Water Level upply Fan Speed (VED or ECM)	khaust Fan Speed (VFD or ECM) utside Air Damper Position eturn Air Damper Position	oy dour eck vamper Position hilled Water Valve Position ot Water Valve Position as Heat Modulation uct Static Pressure Setpoint	ooling Modulation (Variable Speed Comp) ot Gas Peheat Modulation ump Speed (VFD)	ypass Damper Position AV Damper Position AV Airflow Setpoint	rcupancy Override eturn Air Smoke Detector	ow Temperature Alarm igh Temperature Alarm igh Pressure Alarm eneral Alarm	upply Fan Status upply Fan Status (Low, Medium, High) eturn Fan Status	khaust Fan Status nthalpy Wheel Status ump Status	ooling Tower Fan Status ompressor Status (Each Stage)	oiler Status oiler Alarm hiller Status	hiler Alarm fode (Heating, Cooling, Auto) OA Switch Position (Hand, Off, Auto) ocal Switch Position On/Off	nable/Disable tart/Stop upply Fan Start/Stop	upply Fan Speed (Low, Medium, High) eturn Fan Start/Stop xhaust Fan Start/Stop	nthalpy wheel Sart/Stop Lutside Air Damper Open/Close eturn Air Damper Open/Close khaust Air Damper Open/Oose	nthalpy Wheel Bypass Damper Open/Close food (Heating, Cooling, Auto) ooling Stages On/Off (Each Stage) eating Stages On/Off (Each Stage)	or Gas Reheat On/Off onderser Water Valve Open/Close eversing Valve (Heat or Gool Mode)	ooling Tower OA Damper Open/Gose ooling Tower Fan On/Off	coning tower spray runip on your cheduling ccupancy Override	ptimal Start/Stop conomizer emand Controlled Ventilation	ehumidifkation ontinuous Fan Operation upply Air Temperature Reset upply Water Temp Reset	reeze Protection (Pump Start/Stop)	NOTES
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Fan Coil Unit		<del></del>																													
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Blower Coil Unit																															
BC-M1 BC-M2 BC-M3 BC-M4 BC-M5		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 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 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 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 X			X X X X X X X X X X X X X X X X X X X	X X X			
VRF Cassette																															
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Equipment Tag	BACnet IP BACnet IP Convorts Modbus	ZigBee Outdoor Air Temp Outdoor Air Humidty Space Temp	Space Temp Setpoint (Ad) Return Air Temp Mosed Air Temp Enthalpy Wheel EAT Enthalpy Wheel EAT	config Coll DAT  Config Coll DAT  Bichage Air Temp  Space Humairly  Return Air Humidity	Discharge Air Humdity Space CCZ Return Air COZ Duct Static Pressure	Air Filee Differential Pressure Outside Air Damper Position Return Air Damper Position VAV Damper Position	Airflow Flow Messurement Space Static Pressure Supply Water Temp	Return Water Temp Differential Pressure (psl) Bypass Damper Position Hot Water Valve Position	Suction Pressure Gas Une Refrigerant Temp Liquid Line Refrigerant Temp Boller Modulation %	Steam Expansion Valve Position Cooling Tower Water Level Supply Fan Speed (VTD or ECM)	Exhaust Fan Speed (VFD or ECM) Outside Air Damper Position Return Air Damper Position	Hot/Cold Deck Damper Position Chilled Water Valve Position Hot Water Valve Position Gas Heat Modulation Gas Heat Modulation	Duct Static Pressure Setpoint Cooling Modulation (Variable Speed Comp) Hot Gas Reheat Modulation Pump Speed (VFD)	Bypass Damper Position VAV Damper Position VAV Airflow Setpoint Occupancy Override	Return Air Smoke Detector Supply Air Smoke Detector Low Temperature Alarm High Temperature Alarm	High Pressure Alarm General Alarm Suppiy Fan Status	Supply Fan Status (Low, Medium, High) Return Fan Status Exhaus Fan Status Erthalby Wheel Status	Pump Status Cooling Tower Fan Status Compress or Status (Each Stage) VFD Alarm	Boler Status Boler Alam Chiller Status Chiller Alam	Mode (Heating, Cooling, Auto) Mode (Heating, Cooling, Auto) HOA Switch Position (Hand, Off, Auto) Local Switch Position On/Off Enable/Disable	Start/Stop Supply Fan Start/Stop Supply Fan Speed (Low, Medium, High) Return Fan Start/Stop	Exhaust Fan Start/Stop Enthalpy Wheel Start/Stop Outside Air Damper Open/Close Return Air Damper Open/Close	chaust Air Damper Open/Glose Firthalpy, Wheel Bypass Damper Open/Close Mode (Heating, Cooling, Auto) Cooling Stages On/Off (Each Stage)	Heating Stages On/Off (Each Stage) Hor-Gas Reheat On/Off Condenser Water Valve Open/Glose Reversing Valve (Heat or Cool Mode)	isolation Valve Open/Close Cooling Tower OA Damper Open/Close Cooling Tower Fan On/Off Pooling Tower Fan On/Off	Scheduling Occupancy Override Unoccupate Stetu/Setback	Conomizer  Economizer  Demand Controlled Ventilation  Dehrundification	Continuous Fan Operation Supply Air Temperature Reset Supply Water Temp Reset Static Pressure Reset	Freeze Portection (Pump Start/Stop) SELON
BUILDING AUTOMATION  BUILDING GLOBAL POINTS  RTU, SZCV Packaged RTU																													
RTU-01 RTU-02 RTU-03		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 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	x		X	X		X X X X	X	X	
RTU-05 RTU-06 RTU-07		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 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 x x	X		X X X X X X X X X X X X X X X X X X X		X X	
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RTU-10 RTU-11		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-12 RTU-13 RTU-14		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 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 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-15 RTU-16		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 x x :	x x	X X	
RTU-17 RTU-18		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 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		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-19 RTU-20 RTU-21		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		X X X X	X	X X	
RTU-22 RTU-23		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				X X	X X		Х	x x x		x x x :	X	X X	
RTU-24 RTU-25 RTU-26		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 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 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-27		X	x x	X X	X	X X					X X			X	. v v	v v					X		X	X		x x x :		X	
RTU-28 RTU-29 RTU-30		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 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 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	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 X X X X X X X X X X X X X X X X X X	x x	X X X	
RTU-31 RTU-32 RTU-33		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   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 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 x x : x	X	X X X	
RTU-34 RTU-35			X X		X	X X X				x	X X		x x	X		X X					X	х	X			x x x :		X	
RTU-36 RTU-37		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 X	X		X	x		x x x :	x x	X	
RTU-38 RTU-39		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			X	X X	X X				X X	X X		X	X		X X X X	x x	X X X X	
RTU-40 RTU-41 RTU-42		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 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	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	
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RTU-50 RTU-51		X	X	X X X	X	X X					X X			X	X X	x x					X X		Х	X		X X X X X	v	v	
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RTU-61 RTU-62		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			X	X X	X X				X	X		X	X X		x x x :	x x	X	
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	T			COMMUNITY ELEMENTARY SCHOOL	- INPUT / OUTPUT SUMMARY TABLE		
	INTEGRATION	ANALOG	INPLITS	ANALOG OUTPUTS	DIGITAL INPUT	DIGITAL OUTPUTS SOFTWARE / PROGRAMMING	
Equipment Tag	BACnet IP BACnet MSTP Convivors Convivors Modbus Suglee Outdoor At Temp Outdoor At Temp Space Temp Sergiont (Ad) Space Temp Space Te	Enthalpy Wheel Enhant Air Temp Coaling Cell DAT Heating Cell DAT Spect burnditly Spect Humidity Spect CO2 Becharge Air Furnditly Spec CO2 Meturn Air CO2	Air Fiker Differential Pressure Outside Air Damper Position Return Air Damper Position Air Damper Position Air Damper Position Air Damper Position Flow Messurement Space Static Pressure Supply Water Temp Return Water Temp Return Water Temp Return Water Temp Searum Water Temp Searum Water Temp Searum Water Temp Searum Water Temp Searum Water Temp Gent Temp Gent Temp Gent Temp Gent Gent Temp Gent Company Gent Gent Temp Gent Company Gent Gent Gent Gent Gent Gent Gent Gent	Boder Modulation % Steam Expansion Valve Position Steam Expansion Valve Position Steam Expansion Valve Position Supply Fan Speed (VFD or ECM) Beturn Air Damper Position Outside Air Damper Position Air Chilled Valve Valve Position Chilled Valve Valve Position Out State Pressure Serpoint Coning Modulation (Variable Speed Comp) Hot State Andulation Pump Speed (VFD) Bippass Damper Position War Modulation Pump Speed (VFD) Bippass Damper Position War Modulation Pump Speed (VFD)	Occupancy Ocertifies Return Air Smoke Detector Supply Air Smoke Detector Low Temperature Alam High Premperature Alam High Premperature Alam Supply Fan Status Supply Fan Status Supply Fan Status Supply Fan Status Supply Fan Status Supply Fan Status Confire Tower Fan Status Perman Status Confire Tower Fan Status Confire Tower Fan Status Confire Tower Fan Status Confire Tower Fan Status Confire Tower Fan Status	Boter Status  Chiller Status  Chiller Status  Chiller Status  Chiller Status  Chiller Status  Chiller Status  Chiller Status  Chiller Status  Chiller Status  Chiller Adam  Mode (Hearing, Cooling, Auto)  HOA Switch Position (Nirthard)  HOA Switch Position (Nyoff  Ferable/Disable  Staty/Stop  Ferable/Disable  Staty/Stop  Return Fan Start/Stop  Return Fan Start/Stop  Return Art Damper Open/Close  Enthalpy Wines (Start/Stop  Mode (Hearing, Cooling, Auto)  Considerate Water Valve Open/Close  Enthalpy Wines (Start/Stop  Return Art Damper Open/Close  Enthalpy Wines (Start/Stop  Mode (Hearing, Cooling, Auto)  Coccine Stage On/Off (Each Stage)  Horders Stage On/Off (Each Stage)  Horders Stage On/Off (Each Stage)  Horders Bage On/Off (Each Stage)  Horders Bage On/Off (Each Stage)  Horders Bage On/Off (Each Stage)  Horders Bage On/Off (Each Stage)  Horders Bage On/Off (Each Stage)  Horders Bage On/Off (Each Stage)  Horders Bage On/Off (Each Stage)  Horders Bage On/Off (Each Stage)  Continuous Fan Open Horder  Continuous Fan Open Horder  Benand Controlled Ventilation  Dehumidification  Dehumidification  Dehumidification  Dehumidification  Dehumidification  Dehumidification  Stapply Alt Temperature Reset  Static Pressure Reset  Static Pressure Reset  Freeze Protection (Pump Start/Stop)	NOTES
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ZD-21C ZD-21D ZD-21E	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		
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ZD-30A	x x	x   x     x	i i i i	<u> </u>	X X X X X X X X X X X X X X X X X X X		
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Equipment Tag	BACnet IP BACnet WSTP ConWorks Modbus	ZigBee Outdoor Air Humdity Outdoor Air Humdity Space Temp	pase e en prespont (rva). Return Air Temp Mixed Air Temp Enthalpy Wheel EAT	Enthalpy Wheel LAT Enthalpy Wheel Exhaust Air Temp Cooling Coil DAT	Heating Coil DAT Discharge Air Temp Space Humidity	Return Air Humidity Discharge Air Humidity Space CO2	return Air COZ  Duct Static Pressure  Air Filter Differential Pressure  Outside Air Damper Position	Return Air Damper Position VAV Damper Position Airflow	Flow Measurement Space Static Pressure Supply Water Temp Return Water Temp Differential Pressure (ss)	Bypass Damper Position Hot Water Yalve Position Surtion Pressure Gas Line Refrigerant Temp	Liquid Line Refrigerant Temp Boiler Modulation % Steam Expansion Valve Position Cooling Tower Water Level	Supply Fan Speed (VFD or ECM) Return Fan Speed (VFD or ECM) Exhaust Fan Speed (VFD or ECM)	Return Air Damper Position Hot/Cold Deck Damper Position Chilled Water Valve Position	Hot Water Valve Position Gas Heat Moduletion Out Static Pressure Sepoint	Cooling Modulation (Variable Speed Comp) Hot Gas Reheat Modulation Pump Speed (VFD)	Bypass Damper Position VAV Damper Position VAV Airflow Setpoint	Occupancy Override Return Air Smoke Detector Supply Air Smoke Detector	Low Temperature Alarm High Temperature Alarm High Pressure Alarm General Alarm	Supply Fan Status Supply Fan Status (Low, Medium, High) Return Fan Status	Enthaust Fan Status Enthalpy Wheel Status   71 PT PT PT PT PT PT PT PT PT PT PT PT PT	Compressor Status (Fach Stage) VFD Alarm Boiler Status Boiler Alarm	Chilter Alarm Mode (Heating, Cooling, Auto) HOS Switch Position (Hand, Off, Auto)	coca switch restition on our clean left between the control of start/Stop Supply Fan Start/Stop Sumity Fan Sta	Return Fan Start/Stop Exhaust Fan Start/Stop Enthaly Wheel Start/Stop Ontable Air Panner Chool/Thee	Outsate Air Damper Open/Close Return Air Damper Open/Close Enthalpy Wheel Bypass Damper Open/Close	vivoue (vieturing, Journal) Cooling Stages On/Off (Each Stage) Heating Stages On/Off (Each Stage) Hot-Gas Reheat On/Off	Condenser Water Valve Open/ Close Reversing Valve (Heat or Cool Mode) solation Valve Open/Close Cooling Tower OA Damper Open/Close	Cooling Tower Fan On/Off Cooling Tower Spray Pump On/Off Scheduling Occupancy Override	Unoccupied Setup/Setback Optimal Start/Stop Economizer	Demand Controlled Ventilation Dehumidification Continuous Fan Operation Supply Air Temperature Reset Supply Water Temp Reset	Static Pressure Reset Freeze Protection (Pump Start/Stop)	NOTES
ECM #34 - BUILDING AUTOMATIC  BUILDING GLOBAL POINT																																
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Steam Boiler System									×										х		X X	X	*					*	X X			
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				BOARD OF EDUCATION OFFICE - IN	IPUT / OUTPUT SUMMARY TABLE		
	INTEGRATION		ANALOG INPUTS	ANALOG OUTPUTS	DIGITAL INPUT	DIGITAL OUTPUTS	SOFTWARE / PROGRAMMING
Equipment Tag	BACnet IP BACnet WSTP LonVorks Modbus	Outdoor Air Temp Outdoor Air Temp Outdoor Air Hurndity Space Temp	Return Air Humidity Space CO2 Return Size CO2 Beturn Air CO2 Outs State Pressure Air Filter Differential Pressure Air Filter Differential Pressure Air Filter Differential Pressure Air Filter Differential Pressure Air Damper Position Airthow Space Static Pressure Space Static Pressure Supply Water Temp Return Water Temp Offerential Pressure (ps) Bipass Damper Position Hot Water Valve Position Hot Water Valve Position Hot Water Valve Position Hot Water Valve Position Hot Water Valve Position Hot Water Valve Position Hot Water Valve Position Hot Water Valve Position Hot Water Valve Position Hot Water Valve Position Hot Water Valve Position Hot Water Valve Position Hot Water Valve Position Hot Water Valve Position	Liquid Line Refrigerant Temp Boiler Modulation % Cooling Tower Variet Level Cooling Tower Variet Level Cooling Tower Variet Level Supply Fan Speed (VFD or ECM) Britanst Fan Speed (VFD or ECM) Challast Fan Speed (VFD or ECM) Challast Fan Speed (VFD or ECM) Challast Fan Speed (VFD or ECM) Challast Fan Speed (VFD or ECM) Challast Fan Speed (VFD or ECM) Challast Fan Speed (VFD or ECM) Challast Fan Speed (VFD) Cooling Modulation Cooling Modulation (Saste Pressure Setpoint Cooling Modulation (Variet be Speed Comp) Mod Speed (VFD) Suppass Damper Position ANY Damper Position ANY Auritow Setpoint ANY Auritow Setpoint	Occupancy Override  Return Air Smoke Detector  Supply Air Smoke Detector  Low Temperature Alarm  High Pressure Alarm  High Pressure Alarm  General Alarm  Supply Fan Satus  Supply Fan Satus  Supply Fan Satus  Enhaust Fan Satus  Enhaust Fan Satus  Conling Tower Fan Satus  Conjerg Tower Fan Satus  Conjerg Tower Fan Satus  Conjerg Tower Fan Satus  Conjerg Satus  Conje	Supply Fan Saref Stop Supply Fan Saref Stop Supply Fan Saref Stop Supply Fan Saref Stop Supply Fan Saref Stop Enhants Fan Saref Stop Enhants Fan Saref Stop Enhants Fan Saref Stop Outside Air Damper Open/Close Enhants Air Damper Open/Close Return Air Damper Open/Close Enhants Air Damper Open/Close Enhants Air Damper Open/Close Contrast Confers Confers Confers Stages On/Off (Each Stage) Hearting Stages On/Off (Each Stage) Hearting Stages On/Off (Each Stage) Hearting Stages On/Off (Each Stage) Hearting Stages On/Off (Each Stage) Hearting Stages On/Off (Each Stage) Hearting Stages On/Off (Each Stage) Hearting Stages On/Off (Each Stage) Hearting Stages On/Off (Each Stage) Hearting Stages On/Off (Each Stage) Conding Tower OA Damper Open/Close Cooling Tower OA Damper Open/Close Cooling Tower Stray Pump On/Off Cooling Tower Stray Pump On/Off	Scheduling Cecupancy Override Unoccupied Scheduling Cecupancy Override Optimal Start/Stop Economizer Dehmardiciation Continuous Fan Operation Supply Air Temperature Reset Supply Mare Temperature Reset Supply Water Temp Reset Freeze Protection (Pump Start/Stop)
ECM #35 - BUILDING AUTOMATION	N SYSTEM UPGRAD	E - BOARD OF EDUCATION OFFICE					
BUILDING GLOBAL POINTS		x x					
RTU, SZCV Packaged RTU							
RTU BOE-1		X X X 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 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 x x x



									USD	455 FOO	SERVICE	BUILDING	3 - INPU	r / OUTPL	JT SUM	MARY TA	BLE											1	
	INTEGRATION			ANALOG	INPUTS					,	NALOG OUTPUTS					DIGITAL INPUT					DIGITA	AL OUTPUTS			SOF	FTWARE / PROGRA	AMMING		
Equipment Tag  ECM #36 - BUILDING AUTOMATIC	Machine Machin	Contdoor Aur Temp Outdoor Aur Humidity Outdoor Aur Humidity Space Temp Space Temp Separation (Adj) Space Temp Separation (Adj) Space Temp Shall Separation (Adj) Space Temp Shall Separation (Adj) Space Temp Shall Space Temp Shal	Micropian services on the control of	Return Air Humdity Discharge Air Humdity Space CO2 Return Air CO2 Out State Pressure	Air Filter Differential Pressure Outside Air Damper Position Return Air Damper Position AAA Danner Position	Airflow Airflow Flow Messurement Space Static Pressure	Supply Water Temp Return Water Temp Offerential Pressure (ps) Bypass Damper Position Hot Water Valve Position	Suction Pressure Gas Line Refrigerant Temp Liquid Line Refrigerant Temp Boiler Modulaton %	Steam Expansion Valve Position Cooling Tower Water Level Supply Fan Speed (VFD or ECM) Return Fan Speed (VFD or ECM)	Exhaust Fan Speed (VFD or ECM) Outside Air Damper Position Return Air Damper Position Hot/Cold Deck Damper Position	Currect water Valve Position Hot Water Valve Position Gas Heat Modulation Duct Static Pressure Setpoint Cooling Modulation (Variable Speed Comp)	Hot Gas Reheat Modulation Pump Speed (VPD) Bypass Damper Position VAV Damper Position	VAV Airflow Setpoint Occupancy Override Return Air Smoke Detector	Supply Air Smoke Detector Low Temperature Alarm High Temperature Alarm High Pressure Alarm	General Alam Supply Fan Status Supply Fan Status (Low, Medium, High)	Return Fan Status Exhaust Fan Status Enthalpy Wheel Status Pump Status	Cooling Tower Fan Status Compressor Status (Each Stage) VFD Alarm Boiler Status	Boiler Alarm Chiler Status Chiler Alarm Mode (Heating, Cooling, Auto)	HOA Switch Position (Hand, Off, Auto) Local Switch Position On/Off Enable/Disable Krant/stnn	start vaup Supply Fan Sart/Stop Supply Fan Speed (Low, Medum, High) Return Fan Start/Stop Exhaust Fan Start/Stop	Enthalpy Wheel Start/Stop Outside Air Damper Open/Close Return Air Damper Open/Close Exhaust Air Damper Open/Close	Enthalpy Wheel Bypass Damper Open/Close Mode [Heating, Cooling, Auto) Cooling Stages On/Off (Each Stage) Heating Stages On/Off (Each Stage)	Hat-Gas Reheat On/Off Condenser Water Valve Open/Close Reversing Valve (Heat or Cool Mode) Isolaton Valve Open/Close	Cooling Tower OA Damper Open/Close Cooling Tower Spray Pump On/Off Scheduling	Occupancy Override Unoccupied Setup/Setback Optimal Start/Stop	Economizer Demand Controlled Ventilation Dehumidfication	Continuous Fan Operation Supply Air Temperature Reset Supply Water Temp Reset Static Pressure Reset Freeze Protection (Pump Start/Stop)	N	NOTES
BUILDING GLOBAL POINTS		X X				1 1 1 1								1 1 1														1	
AC Split System																												1	
AHU FSC-2		x x	X X	X									X	X X	x x				х х	X		X X		X	X X X				
AHU FSC-3	3	x x	X X	X									X	x x	x x				х х	X		X X		X	X X X				
AHU FSC-4	4	x x	X X	X									X	x x	x x				х х	X		X X		X	X X X				
Coole																													
Cooler Monito	or	X												x x															
						<u> </u>				<u> </u>			<u> </u>																
Freeze	er																												
Freezer Monito	or	X			1 1 1 1									X X															



			USD 455 FOOD SERVICE BUILDING - INPUT / OUTPUT SUMMARY TABLE		
	INTEGRATION	ANALOG INPUTS	ANALOG OUTPUTS DIGITAL INPUT	DIGITAL OUTPUTS SOFTWARE / PROGR	RAMMING
Equipment Tag	BACINE IP BACINE WSTP LanVorks Modbus	Outdoor Air Temp Outdoor Air Temp Outdoor Air Humidity Space Temp Septont (Ad) Return Air Temp Whad Air Temp Whad Air Temp Whad Air Temp Conline State I Air Enthalpy Wheel EAT ENTHALPY ENTHA	Gas Linn Refrigerant Temp Lebus Linn Refrigerant Temp Beluel Chinn Refrigerant Temp Beluel Chinn Refrigerant Temp Beluel Chinn Refrigerant Temp Beluel McUulation Refrigerant Temp Beluel McUulation Refrigerant Temp Gooling Tower Water Level Supply Fan Speed (VFD or ECM) Behaust Fan Speed (VFD or ECM) Behaust Fan Speed (VFD or ECM) Behaust Fan Speed (VFD or ECM) Behaust Fan Speed (VFD or ECM) Behaust Fan Speed (VFD or ECM) Colling Modulation Chilled Water Valve Position Hot/Cold Deck Damper Position Hot/Cold Deck Damper Position Colling Modulation (Variable Speed Comp) Hot Water Valve Position Out Static Prosition Way Auffrow Serpoint Colling Modulation (Variable Speed Comp) Hot Gas Retheat Modulation Way Damper Position Way Demper Position Way Demper Position Way Demper Position Way Demper Position Way Demper Position Way Demper Position Way Demper Position Way Demper Position Way Demper Position Way Demper Position Way Demper Position Way Demper Position Way Demper Position Way Demper Position Way Demper Position Way Demper Position Way Demper Position Way Demper Position Way Demper Position Colling Modulation (Variable Speed (VFD) Behavior Fast Sussition On Offf Forable/Otsable Forable/Otsable	Start/Stop Start/Stop Start/Stop Start/Stop Start/Stop Exhaust Fan Speed (Low, Medium, High) Return fan Start/Stop Exhaust Fan Start/Stop Outside Art Damper Open/Close Return Art Damper Open/Close Exhaust Air Damper Open/Close Exhaust Air Damper Open/Close Exhaust Air Damper Open/Close Exhaust Air Damper Open/Close Exhaust Air Damper Open/Close Exhaust Air Damper Open/Close Exhaust Air Damper Open/Close Exhaust Air On/Off (Each Stage) Med elhesting, Cooling, Auto) Cooling Stages On/Off (Each Stage) Med elhesting, Cooling, Auto) Cooling Stages On/Off (Each Stage) Med Stages On/Off (Each Stage) Med Stages On/Off (Each Stage) Med Stages On/Off (Each Stage) Med Stages On/Off (Each Stage) Med Stages On/Off (Each Stage) Cooling Tower Fan On/Off Stredding Occupancy Override Cooling Tower Stray Pump On/Off Stredding Occupancy Override Enthalpy Economize Enthalpy E	Continuous Fan Operation Supply Air Temperature Reset Supply Water Temp Reset State Pressure Reset Freeze Protection (Pump Starf/Stop)
ECM #56 - PACKAGED ROOFTOP U	INIT REPLACEMENT	- USD 455 FOOD SERVICE BUILDING			
BUILDING GLOBAL POINTS		X X			
RTU, SZVAV Packaged RTU					
RTU FSC-1				x	X





				CLEA	NING										MEC	CHANIC	CAL																	СО	NTRO	LS									
		Coils			Fan	/ heat v	wheel			Mot	or / be	lt / bear	ings		Da	imper c	perati	on / se	als		N	Misc.		$\top$			Ac	tuators	5				Senso	or oper	ation /	calibra	ition				Seq.	of Ope	rations		
																1	-																	1										T	T
TAG	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)	or Ele	=	(Hydror	ě	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 SO			1	Х		Х		T	l v	l	V	V				V	V	V		l v			- V	v		V	V	V			V		V		V	V	V	V	ΙV			V	V		
RTU-H01 RTU-H08	X	X	X	X		^	X		X		Х	X				X	X	Х		X	Х		X	^		X	X	Х			Х		Х		X	Х	Х	X	Х			X	X	X	
RTU-H09	Х	X	Х	Х			Х		Х			Х				Х	Х			Х	X					X	X								Х			Х				Х	X	Х	
RTU-H11	Х	Х	Х	Х		Х	Х		Х		Х	Х				Χ	Χ	Х		Х	Х					Х	Х	Х							Χ		Х	Х	Х			Х	Х	Х	
FT-H101 FT-H102		X		X					X						X								X	_	X						X	X			X			X					X	X	
FT-H103		X		X					X						X								X		X						X	X			X			X					X	X	
FT-H104		Х		Х					Х						Χ								Х	Х	Х						Х	Χ			Х			Х					Х	Х	Х
FT-H105		Х		Х					Х						Х								Х		Х						Х	Х			Х			Х					Х	_	
FT-H106 FT-H107		X		X					X						X								X		X						X	X			X			X					X	X	
FT-H107 FT-H108		X		X					X						X					-	+		X	_	X						X	X			X			X		1			X	X	_
FT-H109		X		X					X						X								X	_	X						X	X			X			X					X	X	
FT-H110		Х		Χ					Х						Χ								Х	X	Χ						Χ	Χ			Χ			Х					Х	Х	Х
FT-H111		Х		Х					Х						X								Х	_	X						X	X			Х			Х					Х	Х	_
FT-H112 FT-H113		X		X					X						X								X		X						X	X			X			X					X	X	X
FT-H113 FT-H114		X		X					X						X								X		X						X	X			X			X					X	X	
FT-H115		Х		Х					Х						Х								X		X						X	X			Х			Х					Х	X	
FT-H116		Х		Х					Х						Х								Х	_	Х						Х	Х			Χ			Х					Х	Х	Х
FT-H117		Х		Х					Х						Χ								Х	_	Χ						Χ	Χ			Χ			Х					Х	Х	
FT-H119 FT-H201		X		X					X						X								X		X						X	X			X			X					X	_	
FT-H201 FT-H202		X		X					X						X								X		X						X	X			X			X					X	X	
FT-H203		Х		Х					Х						Χ								Х	_	Х						Х	Х			Х			Х					Х	_	
FT-H204		Х		Χ					Х						Х								Х	_	Χ						Х	Х			Χ			Х					Х	Х	Х
FT-H205		X		X					Х						X								X		X						X	X			X			X					X	X	X
FT-H206 FT-H207		X		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		Х		Х					Х						Х									Х	Χ							Х			Χ			Х					Х		Х
FT-H210		Х		Χ					Х						Χ								Х		Х						Χ	Χ			Χ			Х					Х		Х
FT-H211		X		X					X						X								X		X							X			X			X					X		X
FT-H212 FT-H213		X		X					X						X								X		X						X	X			X			X					X		X
FT-H221A		X		X					X						X								X		X							Х			X			X		1			X		X
FT-H301		Х		Х					Х						Х								Х	X	Χ						Χ	Χ			Χ			Х					Х	Х	Х
FT-H301A		X		X					X						X								X		X							X			X			X		1			X		X
FT-H302 FT-H303		X		X					X						X			-	1	1	+		X		X		+					X	+		X			X		1			X		X
FT-H303		X		X					X						X						+		X		X						X	X			X			X		+			X		X
FT-H305		X		X					Х						X								X		X							Х			X			X					X		X
FT-H306		Х		Х					Х						Х								Х	Х	Χ							Χ			Χ			Х					Х	Х	Х
FT-H307		Х		Х					Х						X								Х		X						Х	Х			Χ			X					Х		Х
FT-H308 FT-H309		X		X					X						X			-	1	-	-		X		X		+				X	X	+		X			X		1			X		X
FT-H309 FT-H310		X		X					X						X								X		X							X			X			X					X		X
FT-H310		X		X					X						X								X	Х	Х							X			X			X		1			X		X
FT-H312		Х		Х					Х						Χ		-						Х	X	Χ						Х	Χ			Χ			Х					Х	Х	Х
FT-H313		Х		Х					Х						Х								Х		Х						Х	Х			Χ			Х					Х		Х
FT-H314		X		X					X						X								X		X						X	X			X			X					X		X
FT-H315 FT-H316		X		X					X						X			-			+		X	X X	X							X	+		X			X		1			X		X
FT-H317		X		X					X						X										X						X	X			X			X					X		X



				CLEA	NING										M	ECHAN	IICAL																	СС	NTRO	LS									
		Coils			Fan	/ heat v	wheel			Мо	tor / be	elt / bea	arings			Dampe	r opera	tion /	seals			Misc.					Ac	ctuator	rs				Sens	or oper	ration /	' calibra	ation				Seq.	of Ope	rations		
TAG	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	dwnd	SA Damper	OA damper	RA damper	EA damper	Mixing damper	Cooling (Dx Compressors)		r Elect.	Cooling Valve (Hydronic)		od Dainper	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		Х													Х								Х	. X	K						Χ	Χ			Χ			Х					Х	Х	X
VAV-H101A		Х													Х								Х	. X	Κ .						Χ	Χ			Χ			Х					Х	Х	X
VAV-H101B		Х													Х								Х	. X	Κ .						Χ	Χ			Χ			Х					Х	Х	X
VAV-H101C		Х													Х								Х	. X	Κ .						Χ	Χ			Χ			Х					Х	Х	X
FC-H05		Х		Χ					Х														Х								Χ				Χ			Х					Х	Х	X
FC-H06		Х		Χ					Х														Х								Χ				Χ			Х					Х	Х	X
FC-H07		Χ		Χ					Х														Х								Χ				Χ			Х					Х	Х	X
FC-H08		Х		Χ					Х														X								Χ				Χ			Х					Х	Х	X
FC-H09		Х		Χ					Х														X								Χ				Χ			Х					Х	Х	X
FC-H10		Х		Χ					Х														Х								Χ				Χ			Х					Х	Х	X
FC-H11		Χ		Χ					Х														Х								Χ				Χ			Х					Х	Х	Х
FC-H12		Х		Χ					Х														Х								Χ				Χ			Х					Х	Х	X
FC-H13		Х		Χ					Х														Х								Χ				Χ			Х					Х	Х	X
FC-H14		Х		Χ					Х														Х								Χ				Χ			Х					Х	Х	X
FC-H15		Х		Χ					Х														Х								Χ				Χ			Х					Х	Х	X
FC-H16		Х		Χ					Χ														Х								Χ				Χ			Х					Х	Х	X
FC-H17		Х		Χ					Х														Х	_							Χ				Χ			Χ					Х	Х	Х
FC-H18		Χ		Χ					Χ														X	_							Χ				Χ			Х					Х	Х	X
FC-H19		Χ		Χ					Χ														X								Χ				Χ			Х					Х	Х	X
BC-H1	Х		X	Χ			Х		Χ			Х								Х															Χ			Х					Х	Х	X
BC-H2	Х		X	Χ			Х		Χ			Х								Х	_														Χ			Х					Х	Х	X
BC-H3	Х		Х	Χ			Х		Χ			Х								Х															Χ			Х					Х	Х	X
BC-H4	Χ		Х	Χ			Х		Χ			Х								Х															Χ			Χ					Х	Х	Х
UV-H1		Х		Χ					Χ							X	Х						Х			Χ					Χ				Χ			Χ					Х	Х	Х
UV-H2		Х		Χ					Х							Х	Х						Х				Χ				Χ				Χ			Χ					Х	Х	Х
UV-H3		Х		Χ					Х							Х	Х						Х	_			Χ				Χ				Χ			Χ					Х	Х	Х
UV-H5		Х		Χ					Х							Х	Х						X			Χ	Χ				Χ				Χ			Х					Х	X	Х
	I														1									I																					



				CLE/	ANING									M	ECHA	NICAL															CONT	ROLS										
		Coils				/ heat v	wheel			Moto	or / belt	/ bearir	ıgs	1		er operat	ion / se	als		Mis	sc.				Ac	tuators			S	Sensor o			libratio	n			Se	q. of O	peratio	ons		
					1	1					,				1		1																								$\overline{}$	
TAG	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	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	Cooling Valve (Hydronic)	Heating Valve (Hydronic)	Airflow Durt Static	Duct static	Temp	L Signature Fried	Air len	Mixed Air Lemp Space Temperature		peed Modula	vneel operation	ON T	Economizer operation	Occupied	Unoccupied	Setpoints
ECM #72 – ROOSEVELT MIDDLE S																																										
RTU-M2 FT-M101	Х	X	Х	X		Х	Х		X		Х	Х		Х	Х	Х	Х		Х			X	Х	Х	Х			X	X	(	) )		X :	X X							X	X
FT-M103		X		X					X					X								X	X						X		×			X								X
FT-M104		Х		Х					Х					Х								Х	Х						X		×			X							Х	Х
FT-M105		Χ		Х					Х					Х	_							Χ	Χ						Х		X	(		Х	(						Χ	Χ
FT-M105A		X		X					X					X	_							Х	X						X		) )			X								X
FT-M106 FT-M107		X	1	X					X					X	_							X	X						X		) )			×		-		-			X	X
FT-M107		X	1	X					X					X								X	X						X		×			×	_							X
FT-M109		X		X					X					X	_							X	X						X		×			X								X
FT-M110		Χ		Х					Х					Х								Χ	Х						Х		×	(		Х							Х	Χ
FT-M111		Χ		Х					Х					Х	_							Χ	Х						Х		×			Х								Х
FT-M112		X	-	X					X					X	_							X	X						X	_	X			X								X
FT-M201 FT-M202		X		X					X					X	_							X	X						X		) )			×							X	X
FT-M203		X		X					X					X	_							X	X						X		×			X								X
FT-M204		X		X					X					X								Х	X						X		) )			X								X
FT-M205		Χ		Х					Х					Х								Χ	Х					Χ	Х		×	(		X	(					Х	Х	Χ
FT-M206		Χ		Х					Χ					Х								Χ	Х					Χ	Х		×	(		Х	(					Х	Χ	Χ
FT-M207		Χ		Х					Х					Х	_							Χ	Х						Х		X			Х								Χ
FT-M208 FT-M209		X		X					X					X	_							X	X						X		) )			X								X
FT-M210		X		X					X					X								X	X						X		) )			×							X	X
FT-M210A		X		X					Х					X								X	X						X		×			X	_						X	X
FT-M211		Х		Х					Х					Х	_							Χ	Х					Х	Х		×	(		X	_							Х
FT-M212		Х		Х					Х					Х								Χ	Х					Х	Х		×	(		Х	(					Х	Χ	Χ
FT-M301		Χ		Х					Х					Х								Χ	Х						Х		X			Х	_						Χ	Χ
FT-M302		X		X					X					X								X	X						X		λ			X								X
FT-M303 FT-M304		X		X					X					X	_							X	X						X		) )			×							X	X
FT-M305		X		X					X					X	_							X	X						X		×			X								X
FT-M306		X		X					X					X								Х	X						X		, >			X							X	
FT-M307		Х		Х					Х					Х								Х	Х					Х	Х		X	(		Х	(						Х	
FT-M308		Χ		Х					Х					Х								Χ	Х						Х	$\bot$	X			Х							Х	
FT-M309		X		Х					X					Х	_							Х	X						X		) )			X							X	
FT-M310 FT-M310A		X	-	X					X					X	_							X	X						X		) )			×							X	
FT-M311		X	+	X					X					X	_							X	X						X	+	×			X							X	
FT-M312		X		X					X					X								X	X						X		×			X	_						X	
FT-M313		Х		X					Х					X	_							Х	X						X		, X			X							Х	
VAV-M201		Χ												Х								Χ	Х					Χ	Х		X	(		Х	(						Х	
VAV-M202		Χ												Х								Χ	Х					Х	Х	$\bot$	X			Х							Х	
HP-M1	X	X		X			X		X			X							X	X											×			X				_			X	
HP-M2 HP-M3		X		X			X		X			X							X	X											) )			X							X	
HP-M3 HP-M4	X	X					X		X			X							X	X										-	×			X				+			X	
FC-M01		X	^	X					X											^		Х						Х			×			X							X	
FC-M02		Х		X					Х													Х						X			, X			X							X	
FC-M03		Χ		Х					Х													Х						Х			X			Х							Х	
FC-M04		Χ		Х					Х													Χ						Χ			χ			Х							Х	
BC-M1	Х		X	Х			Х		Х			X			_	Х			X			Х		Х				X			χ			Х							Х	
BC-M2	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	Х	Χ	X	Χ			Х		Х			Χ			X	Х		1	Χ			Χ		Χ	Χ			Χ			×			X	(				X	Χ	Х	Х



Colls   Fan / heat wheel   Motor / belt / bearings   Damper operation / seals   Misc.   Actuators   Sensor operation / calibration   Seq. of Operations					CLEA	NING										М	ECHAN	VICAL																	С	ONTRO	OLS									
TAG  TAG  TAG  TAG  TAG  TAG  TAG  TAG			Coils			Fan	/ heat	wheel			М	otor / k	oelt / be	arings		ı	Dampe	r opera	ation /	seals			Mi	sc.					Actuato	ors				Sen	sor ope	eration	/ calib	ration				Seq	. of Op	eration	ıs	
Primary HW Pump XP-1         X         X         Image: Control of the contr	TAG		ng Coi	Condenser Coil	Supply Fan	Return Fan	Exhaust Fan	Condenser Fan(s)	Heat wheel		Return Fan		Condenser Fan	Heat wheel	Pump	SA Damper	OA damper	RA damper	EA damper		Mixing damper	x Compressor	as or Elect.	lydronic	ing Valve (Hydroni	SA Damper	OA damper	RA damper	EA damper	xing	lydroni	ng Valve (Hydroni	Airflow	Sta	erential Pressur	ply Air Tem	Return Air Temp	Air Tem	Space Temperature	eed Modulati	Heat wheel operation		Economizer operation	Occupied		ā)
Primary HW Pump XP-1         X         X         Image: Control of the contr		Х	X	X	X			X		X			X	_		0,						Х	_		X	O,	Х	X		_	Ŭ	X				X			X				X	X		
Primary HW Pump XP-2         X           Secondary HW Pump HP-1         X		† ^	,,							† <u> </u>			1		Х										.,			1				1				1								-		·
Secondary HW Pump HP-1 X X X X X X X X X X X X X X X X X X X															Х																															
															Х																															
															Х																															



				CLEA	ANING	<del></del>									MECH	IANIC	ΑL																со	NTROL	S								
		Coils					wheel			Mo	otor / b	elt / bea	rings				eration	ı / sea	ls		М	isc.				A	ctuator	rs				Sensor		ation / c		ion				Seq. o	f Opera	tions	
		3			1	, <del>-</del>	T				1	T	J.			, <u></u>					<u> </u>							I										$\overline{}$	$\overline{}$		,		
TAG	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		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 ELEMEN	ITARY S	CHOC	L	, <u>,</u>											<u> </u>																			<u> </u>			<u> </u>						<u> </u>
RTU-01	X	Х	X	X			X		Х			X					X			X	X				X	X								X		Х	X				X	X	X X
RTU-02 RTU-03	X	X	X	X			X		X			X					X			X	X				X	X								X			X		-		X	X	X X
RTU-04	Х	Х	X	X			X		Х			X					Х			X	X				X	X								X			Х				Х	Х	X X
RTU-05	Х	Χ	Х	Х			Х		Х	_		Х					Х			Х	Х				Х	Х								Х			Χ				Χ	Χ	ХХ
RTU-06 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	Х	Х	X	X			X		Х			X					X			X	X				X	X								X			Х		二士		Х	Х	X X
RTU-10	Х	Х	Х	Х			Х		Х	_		Х					Х			Х	X				X	X								Х		Х	Х	$=$ $\exists$			Х	Х	X X
RTU-11 RTU-12	X	X	X	X			X		X		+	X					X			X	X				X	X			+					X	+		X	$\rightarrow$			X	X	X X
RTU-13	X	X	X	X			X		X		+	X					X			X	X				X	X								X			X	$\rightarrow$	_		X	X	X X
RTU-14	Х	Х	Х	Х			Х		Х			Х					Х			Х	Х				Х	Х								Х			Χ				Χ	Χ	ХХ
RTU-15	X	Х	X	X			X		Х			X					X			X	X				X	X								X			Х				X	X	X X
RTU-16 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	Χ	Χ	Х	Х			Х		Х			Х				Х	Х			Х	Х				Х	Х								Х			Χ				Χ	Χ	х х
RTU-20	X	Х	X	Х			Х		Х	_		X					X			Х	Х				Х	Х								Х			X				Χ	Χ	X X
RTU-21 RTU-22	X	X	X	X			X		X			X					X		Х	X	X				X	X		Х				Х		X			X	-			X	X	X X
RTU-23	X	X	X	X			X		X			X					X			X	X				X	X								X		^	X		$\overline{}$		X	X	X X
RTU-24	Χ	Χ	Х	Х			Х		Х			Х				Х	Х			Х	Х				Х	Х								Х			Χ				Χ	Χ	х х
RTU-25	X	Х	X	X			X		Х			X					X			X	X				X	X								X			X				X	X	X X
RTU-26 RTU-27	X	X	X	X			X		X			X					X			X	X				X	X								X		Х	X				X	X	X X
RTU-28	X	X	X	X			X		X			X					X			X	X				X	X								X		^	Х				Х	X	X X
RTU-29	Х	Χ	Х	Х			Х		Х			Х				Х	Х			Х	Х				Х	Х								Χ			Χ				Χ	Χ	Х Х
RTU-30	X	Х	X	X			X		Х			X					X			X	X				X	X								X		X	X				X	X	X X
RTU-31 RTU-32			X	X			X		X			X			_		X				X					X								X X		Х	X	-			X	X	X X X
RTU-33				X			X		X			X				X					X					X								X			X	-	_				X X
RTU-34	Χ	Χ	Х	Х			Х		Х	_		Х					Х				Х				Х	Х								Х		Χ	Χ						х х
RTU-35	_			X		X	X		X	_	Х	_						Χ			X					X						X		X		Х		Х					X X
RTU-36 RTU-37			X				X		X	_	+	X					X				X					X			+					X	+		X	$\longrightarrow$	$\rightarrow$				X X
RTU-38				X	_		X		X		+	X					X				X					X								X	+		X	-	-				X X
RTU-39	Х	Χ	Х	Х			Х		Х			Х				Х	Х			Х	Х				Х	Х								Х			Х				Χ	Χ	Х Х
RTU-40			X		_		X		X	_		X					X				X					X								X	$\perp$		X						X X
RTU-41 RTU-42				X	_		X	_	X	_		X					X				X					X								X		Х	X	-	-				X X
RTU-43	_		X				X		X			X					X		Х		X					X		Х				Х		X			X	-	$\rightarrow$				X X
RTU-44	Х	Х	Х	Х			Х	_	Х			Х				Х	Х			Х	Х				Х	Х								Х		Х	Χ				Χ	Χ	Х Х
RTU-45	X			X			X		Х		1	X					X				X					X								X			X						X X
RTU-46 RTU-47			X	X			X		X		+	X					X				X					X								X			X						X X
RTU-48				X			X		X		+	X					X				X					X								X	$\rightarrow$		X	$\longrightarrow$	$\rightarrow$				X X
RTU-49	Χ	Χ	Х	Х			Х		Х			Х					X				X				Х	Х								X			Х				Χ	Χ	х х
RTU-50			Х		_		Х	_	Х			Х					Х				Х					Х								Х			Χ						ХХ
RTU-51			X				X	_	X		-	X					X				X					X								X		Х							X X
RTU-52 RTU-53			X		_		X		X	_	+	X					X				X					X								X	-	Х	X		-+				X X
RTU-54				X			X		X		+	X				X					X					X								X			X	-	$\rightarrow$				X X
L.					-1		T.						-	·											1							1											



				CLE	ANING	i									MECHA	NICAL																СО	NTROL	LS									
		Coils			Far	n / heat	wheel			Moto	or / belt	/ beari	ngs		Dampe	er opera	tion / s	seals		1	Misc.					Actua	itors				Senso	or oper	ation /	calibrat	tion				Seq. o	of Opera	ations		
																																										$\Box$	Т
TAG	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	2	SA Damper OA damper	RA damper	EA damper	Bypass damper	Cooling (Dx Compressors)	s or Elec	/alve (F	Valve	j l	od damper		RA damper EA 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
RTU-55A	Х	Х	Х	X			Х	_	X			Х			Х	Х			Х	_	_					X			_			_	X		X	X		_	_	X	Х	X	Х
RTU-55B RTU-56	X	X	X	X			X		X			X			X	_			X	X				X									X		Χ	X				X	X	X	X
RTU-57	X	X	X	X			X		X			X			X	_			X	X			-			X							X			X				X	X	X	
RTU-58	Х	Х	Х	Х			Х		Х			X			Х	_			Х	Х				Х									Χ			Х				Х	X	Х	Х
RTU-59	Х	Χ	Х	Х			Х		Х			Х			Х	_			Х	Х	_					Х							Х			Х				Х	Х	Х	Х
RTU-60	X	X	X	X			X		Х			X			X				X	X				X									X			X				X	X	X	X
RTU-61 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
RTU-64	Х	Х	X	Х			Х		Х			Х			Х	_			Х	Х						X							Х			Х				Х	Х	_	Х
RTU-65	Χ	Χ	Х	Х			Х		Х			Χ			Х				Х	Х						Х							Χ		Χ	Χ				Х	Х	Х	
RTU-66	X	X	X	X			X		X		+	X			X			Х	_	X			+	X		X	X				Х		X		Χ	X				X	X	X	X
RTU-67 RTU-68	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		Х			X			X	_			X	X				X									X		Х	X				X	X	X	
RTU-70	Х	Х	Х	Х			Х		Х			Х			Х	Х			Х	Х						Х							Х			Х				Х	Х	Х	Х
RTU-71	Χ	Χ	Х	Χ			Х		Х			Χ			X	_			Х	Х	_				( )								Χ			Χ				Χ	Χ	Х	Х
RTU-72	Х	Х	Х	X			Х		Х			Х			X	_			Х	Х	_			Х	_								X			Х				X	X	X	X
RTU-73 RTU-74	X	X	X	X			X		Х			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-76	X	X	X	X			X		X			X			X				X	X						X							X		Х	X				X	X	X	X
RTU-77	Х	Χ	Х	Х			Х		Х			Х			Х	Х			Х	Х						Х							Х			Х				Х	Х	Х	Х
RTU-78	Χ	Χ	Χ	Х			Х		Х			Χ			Х				Х	Х						Х							Χ		Χ	Χ				Χ	Χ	X	Х
RTU-79	X	Х	X	X			X		X			X			X				Х	Х						X							X		X	X				X	X	_	X
RTU-80 RTU-81	X	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		
RTU-83A	Х	X	X	X			X		X			X			X	_			X	X						X							Х		Х	X				X	X		X
RTU-83B	Χ	Χ	Х	Х			Х		Х			Х			Х				Х							Х							Χ		Χ	Χ				Х	Χ	Х	Х
RTU-84	Χ		Х				Х		Х			Χ				Х			Х						( )								Χ		Χ								Х
RTU-85	X	X	X	X			X		Х			X			X	_			X	_	_					X							X			X				X	X		X
RTU-86 ZD-21A	Х	Х	Х	Х			X		Х			Х			X	Х			Х	Х			Х		( )	Х				Х			X			X				Х	X		X
ZD-21A ZD-21B															X								X							X			X			X					X		X
ZD-21C								<u>L</u>							X					L			Х	(						Х	†		Х			Х					Х		Х
ZD-21D															Х								Х							Х			Χ			Х					Χ		Х
ZD-21E															X	_							X							X			X			X					X		X
ZD-21F ZD-30A															X	_							X	<b>(</b>						X			X			X					X	_	X
ZD-35A											+				X	+							X							X			X			X					X		X
ZD-35B							1								X								X							X			X			X					X		X
ZD-35C															Х								Х	<						Х			Х			Х					Χ		Х
ZD-35D															Х								Х							Х			Х			Х					Χ		Х
ZD-35E							1								X	_							Х							X			X			X					X	_	X
ZD-35F ZD-36A															X								X							X			X			X					X		X
ZD-36B															X	+							X							X			X			X					X		X
ZD-36B ZD-43A															X	+							Х	(						X			X			X					X		X
ZD-43B															Х								Х	(						Х			Х			Х					Х	Х	Х
ZD-43C															Х								Х							Х			Χ			Х					Χ		Х
ZD-43D															X								X							X			X			X					X		X
ZD-43E									$\vdash$		+				X	_							X	′						X			X			X					X		X
ZD-43F				1					<u> </u>						X								x	`						Χ			Χ			Х					X	Х	X



					CLEA	NING										MI	CHAN	ICAL																СО	NTRO	LS									
			Coils			Fan	/ heat	wheel			Mot	or / be	lt / bea	rings		С	amper	operat	ion / se	eals		M	isc.				A	Actuato	rs				Sens	or oper	ation /	calibra	ation				Seq.	of Opera	ations		
	TAG	Cooling Coil	Heating Coil	Condenser Coil	supply Fan	Return Fan	:xhaust Fan	Condenser Fan(s)	leat wheel	supply Fan	Return Fan	xhaust Fan	Condenser Fan	Heat wheel	dwn	3A Damper	JA damper	RA damper	EA damper	3ypass damper	Cooling (Dx Compressors)	Heating (Gas or Elect.)	Cooling Valve (Hydronic)	Heating Valve (Hydronic)	3A Damper	)A damper	A damper	:A damper	Bypass damper	Cooling Valve (Hydronic)	Heating Valve (Hydronic)	Airflow	Juct Static	Differential Pressure	supply Air Temp	Return Air Temp	Vixed Air Temp	space Temperature	an Speed Modulation	Heat wheel operation	oump Speed Modulation	conomizer operation	Occupied	Jnoccupied	setpoints
ZD-43G	ind			0	S	~	Ш	0		S	- 4	ш	0			X	0	- 4	ш	В			0		X	0	~	ш	В	0		X			X	~		X				ш	X	X	X
ZD-43H																X									Х							X			X			X					X	X	X
ZD-43I																X									Х							X			X			Х					X	X	X
ZD-43J																X									Х							X			X			Х					X	X	X
ZD-51A																X									Х							Х			Х			Х					X	X	X
ZD-66A																Х									Х							Х			Х			Х					Х	X	X
ZD-66B																Х									Х							Х			Х			Х					Х	X	X
ZD-66C										1						Х									Х							Х			Х			Х					Х	Х	Х
ZD-66D										1						Х									Х							Х			Х			Х					Х	Х	Х
ZD-66E																Х									Х							Х			Х			Х					Х	Х	Х
ZD-66F		ĺ						1								Х			1						Х							Х			Х			Х					Х	Х	Х
ZD-77A		ĺ						1								Х			1						Х							Х			Х			Х					Х	Х	Х
ZD-77B																Х									Х							Х			Х			Х					Х	Х	Х
ZD-21G																Х									Х							Х			Х			Х					Х	Х	Х
ZD-35G																Х									Х							Х			Х			Х					Х	Х	Х
ZD-43K																Х									Х							Х			Х			Х					Х	Х	Х
ZD-66G																Х									Х							Х			Х			Χ					Х	Х	Х



				CLEA	NING										M	IECHAN	IICAL																CO	NTROL	LS									$\overline{}$
		Coils			Fan /	/ heat w	vheel			Mot	or / bel	t / beaı	rings			Dampe	r opera	ition / :	seals			Misc.					Actuat	ors				Sens	or opera	ation /	calibra	tion				Seq.	of Oper	ations		
TAG	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)	s or Flect )	5   ≐	Valve (Steam)	Ser	OA damaer	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
CV Air Handling Unit	CENTI	X	1	Х					Х					T	1	Х	X			1			Х	1		x X		1		Х	1			Х	-	Х	Х	-			T	Х	Х	Х
UV Room 102		X		X					X							^	^						^		- '	^ ^				X				^	$\longrightarrow$		X	$\rightarrow$	$\vdash$			X	X	X
UV Room 103 Kitchen		X		X					X																					X					$\longrightarrow$		X	$\rightarrow$	$\vdash$			X	X	X
UV Room 104		X		X					X																					X					$\rightarrow$		X	$\overline{}$	$\vdash$			X	X	X
UV Room 107 Playroom		X		X					X											-				-						X							X	$\longrightarrow$	$\overline{}$			X	X	X
UV Room 108		X		X					X																					X					$\rightarrow$		X	-	$\vdash$			X	X	X
UV Room 109		X		X					X							Х	Х						Х		>	х х				X				Х			X	$\rightarrow$	$\overline{}$			X	X	X
UV Room 110		X		X					X																	X X				X					$\rightarrow$		X	$\rightarrow$	$\overline{}$			X	X	X
UV Room 111		X		X					Х							Х	Х						Х		>	х х				X				Х		, — †	X	$\rightarrow$	$\overline{}$			X	X	X
UV Room 113		Х		Х					Х							X	Х						Х	_	_	x x	_			Х				Х	$\rightarrow$	, — †	X		$\Box$			Х	Х	Х
UV Room 118		Х		Х					Х							Х	Х						Х	_		х х	_			Х				Х			Х	-				Х	Х	Х
UV Room 120		Х		Х					Х							Х	Х						Х			х х	_			Х				Х			Х	-				Х	Х	Х
BCU Room 101	Х	Х	Х	Х			Х		Χ			Χ								Х	Х	(												Х		,	Х					Χ	Х	Х
BCU Main Office 105	Х	Х	Х	Х			Х		Х			Х								Х	Х	(												Х	-	,	Х					Х	Х	Х
BCU Room 109	Х		Х	Х			Х		Х			Х								Х														Х			Х					Х	Х	Х
BCU Room 111	Х		Х	Х			Х		Χ			Χ								Х														Х			Х					Χ	Χ	Х
BCU Room 113	Χ		Χ	Х			Х		Х			Χ								Х														Χ			Х					Χ	Х	Х
BCU Room 118	Х		Х	Х			Х		Χ			Χ								Х														Χ		,	Х					Х	Χ	Х
BCU Room 120	Х		Х	Х			Х		Х			Χ								Х														Χ			Х					Χ	Χ	Х
Split-System SS-1	Х	Х	Х	Х	,		Х		Х			Χ								Х	Х	(								,				Х			Х					Х	Х	Х
Split-System SS-2	Χ	Х	Χ	Х			Х		Χ			Χ								Х	Х	<												Χ			Х		oxdot			Χ	Х	Χ
Split-System SS-3	Χ	Х	Χ	Х			Χ		Χ			Χ								Х	Х	(												Χ		J	Х		oxdot			Χ	Χ	Χ
Split-System SS-4	Χ	Х	Χ	Х			Χ		Χ			Χ								Х	Х	(												Χ			Х		oxdot			Χ	Χ	Χ
Split-System SS-5	Χ	Х	Χ	Х			Χ		Χ			Χ								Х	Х	(												Χ		J	Х		oxdot			Χ	Χ	Χ
Ventilation Fan				Χ					Χ																												I		oxdot					
																																				.	1		, 1				i	1



				CLEA	NING										ME	CHAN	CAL																C	ONTRO	DLS									
		Coils			Fan ,	/ heat v	heel			Moto	or / belt	/ bear	ings		D	amper	operati	on / se	als		N	lisc.				P	Actuato	rs				Sens	sor ope	ration	/ calibr	ration				Seq.	of Ope	erations	5	
TAG	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	hump	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	feigr	Setpoints
ECM #75 – FIELD KINDLEY TECHN	ICAL A	CADEN	1Y (FKT	ГА)																																								
RTU #1	Х	Х	Х	Х			Х		Х			Χ				Х	Χ	Χ		Х	Х				Χ	Х								Х		X	Χ	Х			Х	X	<b>&gt;</b>	
RTU #2	Х	Χ	Х	Х			Χ		Х			Χ				Х	Х	Х		Х	Х				Χ	Χ								Х		Х	Х	Х			Х	Х	>	
RTU #3	Х	Χ	Χ	Х			Χ		Χ			Χ				Х	Χ	Х		Х	Х				Χ	Χ								Х		Х	Х	Х			Х	Х	>	
Exhaust Fan EF-1						Х					Χ																																	
Exhaust Fan EF-2						Х					Χ																																	
Exhaust Fan EF-3						Χ					Χ																																	



				CLEA	NING					MECHANICAL											CONTROLS																								
		Coils Fan / heat v					heel		Motor / belt / bearings						Damper operation / seals						Misc.				Actuators							Sensor operation / calibration							Seq. of Operations						
TAG	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)	(+00]3 to 50	ng (das of Elect.)	ng valve (Hydron	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 #76 – BOARD OF EDUCATION	N OFFIC	JE .																																											
RTU BOE-1	Х	Χ	Χ	Х			Χ		Χ			Χ				Х	Х			Х	( )	X				Х	Х								Х		X	X					Х	Х	
RTU BOE-2	Χ	Χ	Χ	Х			Χ		Χ			Х				Х	Х			Х	( )	X				Χ	Χ								Х		Х	Х					Х	Х	
RTU BOE-3	Х	Х	Х	Х			Х		Х			Χ				Χ	Х			Х	( )	X				Χ	Χ								Х		Х	Х					Х	Х	
RTU BOE-4	Х	Χ	Χ	Х			Χ		Χ			Χ				Х	Х			Х	( )	X				Χ	Χ								Χ		Х	Х	Х			Х	Х	Х	
Exhaust Fan						Χ					Χ																																		
Exhaust Fan						Х					Χ																																		

