Ohio Public Utilities Commission

Application to Commit Energy Efficiency/Peak Demand Reduction Programs (Mercantile Customers Only)

# Case No.: 13-0183-EL-EEC

Mercantile Customer:	City of Lakewood
Electric Utility:	The Cleveland Electric Illuminating Company
Program Title or Description:	First Energy Mercantile Program

Rule 4901:1-39-05(F), Ohio Administrative Code (O.A.C.), permits a mercantile customer to file, either individually or jointly with an electric utility, an application to commit the customer's existing demand reduction, demand response, and energy efficiency programs for integration with the electric utility's programs. The following application form is to be used by mercantile customers, either individually or jointly with their electric utility, to apply for commitment of such programs in accordance with the Commission's pilot program established in Case No. <u>10-834-EL-POR</u>

Completed applications requesting the cash rebate reasonable arrangement option (Option 1) in lieu of an exemption from the electric utility's energy efficiency and demand reduction (EEDR) rider will be automatically approved on the sixty-first calendar day after filing, unless the Commission, or an attorney examiner, suspends or denies the application prior to that time. Completed applications requesting the exemption from the EEDR rider (Option 2) will also qualify for the 60-day automatic approval so long as the exemption period does not exceed 24 months. Rider exemptions for periods of more than 24 months will be reviewed by the Commission Staff and are only approved up the issuance of a Commission order.

Complete a separate application for each customer program. Projects undertaken by a customer as a single program at a single location or at various locations within the same service territory should be submitted together as a single program filing, when possible. Check all boxes that are applicable to your program. For each box checked, be sure to complete all subparts of the question, and provide all requested additional information. Submittal of incomplete applications may result in a suspension of the automatic approval process or denial of the application.

Any confidential or trade secret information may be submitted to Staff on disc or via email at <u>ee-pdr@puc.state.oh.us</u>.

# Section 1: Mercantile Customer Information

Name: City of Lakewood

Principal address:12650 Detroit Road, Lakewood, OH 44107

Address of facility for which this energy efficiency program applies:12650 Detroit Road, Lakewood, OH 44107

Name and telephone number for responses to questions: Chris Balson, 216-543-0177

Electricity use by the customer (check the box(es) that apply):

The customer uses more than seven hundred thousand kilowatt hours per year at the above facility. (Please attach documentation.)

] The customer is part of a national account involving multiple facilities in one or more states. (Please attach documentation.)

# Section 2: Application Information

A) The customer is filing this application (choose which applies):

Individually, without electric utility participation.

Jointly with the electric utility.

- B) The electric utility is: The Cleveland Electric Illuminating Company
- C) The customer is offering to commit (check any that apply):

Energy savings from the customer's energy efficiency program. (Complete Sections 3, 5, 6, and 7.)

- Capacity savings from the customer's demand response/demand reduction program. (Complete Sections 4, 5, 6, and 7.)
- Both the energy savings and the capacity savings from the customer's energy efficiency program. (Complete all sections of the Application.)

# Section 3: Energy Efficiency Programs

- A) The customer's energy efficiency program involves (check those that apply):
  - Early replacement of fully functioning equipment with new equipment. (Provide the date on which the customer replaced fully functioning equipment, and the date on which the customer would have replaced such equipment if it had not been replaced early. Please include a brief explanation for how the customer determined this future replacement date (or, if not known, please explain why this is not known)). If Checked, Please see Exhibit 1 and Exhibit 2
  - Installation of new equipment to replace equipment that needed to be replaced The customer installed new equipment on the following date(s):
    - Installation of new equipment for new construction or facility expansion. The customer installed new equipment on the following date(s):
    - Behavioral or operational improvement.
- B) Energy savings achieved/to be achieved by the energy efficiency program:
  - If you checked the box indicating that the project involves the early replacement of fully functioning equipment replaced with new equipment, then calculate the annual savings [(kWh used by the original equipment) – (kWh used by new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

## Annual savings: <u>1,590,896</u> kWh

2) If you checked the box indicating that the customer installed new equipment to replace equipment that needed to be replaced, then calculate the annual savings [(kWh used by less efficient new equipment) - (kWh used by the higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

## Annual savings: <u>330,418</u> kWh

Please describe any less efficient new equipment that was rejected in favor of the more efficient new equipment. **Please see Exhibit 1 if applicable** 

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 If you checked the box indicating that the project involves equipment for new construction or facility expansion, then calculate the annual savings [(kWh used by less efficient new equipment) – (kWh used by higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: \_\_\_\_\_ kWh

Please describe the less efficient new equipment that was rejected in favor of the more efficient new equipment. **Please see Exhibit 1 if applicable** 

4) If you checked the box indicating that the project involves behavioral or operational improvements, provide a description of how the annual savings were determined.

FE Rev 06.29.11

# Section 4: Demand Reduction/Demand Response Programs

- A) The customer's program involves (check the one that applies):
  - Coincident peak-demand savings from the customer's energy efficiency program.
  - Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)
  - Potential peak-demand reduction (check the one that applies):
    - The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a tariff of a regional transmission organization (RTO) approved by the Federal Energy Regulatory Commission.
    - The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a program that is equivalent to an RTO program, which has been approved by the Public Utilities Commission of Ohio.
- B) On what date did the customer initiate its demand reduction program?

# 08-20-2009

C) What is the peak demand reduction achieved or capable of being achieved (show calculations through which this was determined):

<u>290</u> kW

Revised June 24, 2011

# Section 5: Request for Cash Rebate Reasonable Arrangement (Option 1) or Exemption from Rider (Option 2)

Under this section, check the box that applies and fill in all blanks relating to that choice.

Note: If Option 2 is selected, the application will not qualify for the 60-day automatic approval. All applications, however, will be considered on a timely basis by the Commission.

- A) The customer is applying for:
  - Option 1: A cash rebate reasonable arrangement.

OR

Option 2: An exemption from the energy efficiency cost recovery mechanism implemented by the electric utility.

OR

Commitment payment

- B) The value of the option that the customer is seeking is:
  - Option 1: A cash rebate reasonable arrangement, which is the lesser of (show both amounts):
    - A cash rebate of \$<u>79,640.00</u>. (Rebate shall not exceed 50% project cost. Attach documentation showing the methodology used to determine the cash rebate value and calculations showing how this payment amount was determined.)
  - Option 2: An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider.
    - An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for \_\_\_\_\_\_months (not to exceed 24 months). (Attach calculations showing how this time period was determined.)

## OR

A commitment payment valued at no more than \$\_\_\_\_\_. (Attach documentation and calculations showing how this payment amount was determined.)

FE Rev 06.29.11

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OR

Ongoing exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for an initial period of 24 months because this program is part of the customer's ongoing efficiency program. (Attach documentation that establishes the ongoing nature of the program.) In order to continue the exemption beyond the initial 24 month period, the customer will need to provide a future application establishing additional energy savings and the continuance of the organization's energy efficiency program.)

# Section 6: Cost Effectiveness

The program is cost effective because it has a benefit/cost ratio greater than 1 using the (choose which applies):

- Total Resource Cost (TRC) Test. The calculated TRC value is: \_\_\_\_\_(Continue to Subsection 1, then skip Subsection 2)
- Utility Cost Test (UCT). The calculated UCT value is: See Exhibit 3 (Skip to Subsection 2.)

## Subsection 1: TRC Test Used (please fill in all blanks).

The TRC value of the program is calculated by dividing the value of our avoided supply costs (generation capacity, energy, and any transmission or distribution) by the sum of our program overhead and installation costs and any incremental measure costs paid by either the customer or the electric utility.

The electric utility's avoided supply costs were \_\_\_\_\_.

Our program costs were \_\_\_\_\_.

The incremental measure costs were \_\_\_\_\_.

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# Subsection 2: UCT Used (please fill in all blanks).

We calculated the UCT value of our program by dividing the value of our avoided supply costs (capacity and energy) by the costs to our electric utility (including administrative costs and incentives paid or rider exemption costs) to obtain our commitment.

Our avoided supply costs were See Exhibit 3

The utility's program costs were See Exhibit 3

The utility's incentive costs/rebate costs were See Exhibit 3

# Section 7: Additional Information

Please attach the following supporting documentation to this application:

- Narrative description of the program including, but not limited to, make, model, and year of any installed and replaced equipment.
- A copy of the formal declaration or agreement that commits the program or measure to the electric utility, including:
  - 1) any confidentiality requirements associated with the agreement;
  - 2) a description of any consequences of noncompliance with the terms of the commitment;
  - 3) a description of coordination requirements between the customer and the electric utility with regard to peak demand reduction;
  - 4) permission by the customer to the electric utility and Commission staff and consultants to measure and verify energy savings and/or peak-demand reductions resulting from your program; and,
  - 5) a commitment by the customer to provide an annual report on your energy savings and electric utility peak-demand reductions achieved.
- A description of all methodologies, protocols, and practices used or proposed to be used in measuring and verifying program results. Additionally, identify and explain all deviations from any program measurement and verification guidelines that may be published by the Commission.

# Ohio Public Utilities Commission

**Application to Commit** Energy Efficiency/Peak Demand **Reduction Programs** (Mercantile Customers Only)

Case No.: 13 -0133-EL-EEC

State of Ohio :

, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

CITY of Lakewood, Ohio

[insert customer or EDU company name and any applicable name(s) doing business as]

I have personally examined all the information contained in the foregoing application, 2. including any exhibits and attachments. Based upon my examination and inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete.

DRECTOR of Public Works nature of Affiant & Title

Sworn and subscribed before me this <u>29</u> day of <u>NUVEmfer</u>, <u>2012</u> Month/Year

Signature of official administering oath

COLLERNA GILLESPIE. Print Name and Title ADMINISTRATIVE

ASSISTANT

My commission expires on June 9, 2014

COLLEEN A. GILLESPIE Notary Public, State of Ohio My Commission Expires June 9, 2014 (Recorded in Cuyahoga County)

Revised June 24, 2011

#### Customer Legal Entity Name: City of Lakewood

#### Site Address: City of Lakewood Principal Address: 12650 Detroit Avenue

what date would you have replaced your

Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	City Hall Lighting	Retrofit existing t12 lamps with t8 lamps. GE Proline Ballast. GE F28t8 lamp	FE Lighting Calculator	It would have been no later than July of 2012. As this is about the time that the t12s were discontinued.	N/A
2	Fire Station 1 Lighting	Retrofit existing t12 lamps with t8 lamps. GE Proline Ballast. GE F28t8 lamp	FE Lighting Calculator	7/1/2012 See Project 1	N/A
3	Fire Station 3 Lighting	Retrofit existing t12 lamps with t8 lamps. GE Proline Ballast. GE F28t8 lamp	FE Lighting Calc.	See Project 1	N/A
4	Fire Station 2 Lighting	Retrofit existing t12 lamps with t8 lamps. GE Proline Ballast. GE F28t8 lamp	FE Lighting Calc.	See Project 1	N/A
5	Animal Shelter Lighting	Retrofit existing t12 lamps with t8 lamps. GE Proline Ballast. GE F28t8 lamp Each individual lighting project was one large project for the city.	FE Lighting Calc	See Project 1	N/A
6	Office on Aging Lighting	Retrofit existing t12 lamps with t8 lamps. GE Proline Ballast. GE F28t8 lamp	FE Lighting Calc.	See Project 1	N/A
7	Park Lakewood Lighting	Retrofit existing t12 lamps with t8 lamps. GE Proline Ballast. GE F28t8 lamp	FE Lighting Calc	See Project 1	N/A

Docket No. 13-0183 Site: 12650 Detroit Avenue

#### Customer Legal Entity Name: City of Lakewood

Site Address: City of Lakewood

Principal Address: 12650 Detroit Avenue

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1
2011	10,008,130	10,008,130	10,486,885
			479,530
			236,525
Average	10,008,130	10,008,130	3,734,313

Project Number	Project Name	In-Service Date	Project Cost \$	50% of Project Cost \$	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) \$	Eligible Rebate Amount (H) \$ Note 2
1	City Hall Lighting	09/01/2009	\$153,000	\$76,500	195,996	195,996	50	\$9,863	\$7,397
2	Fire Station 1 Lighting	06/10/2009	\$54,000	\$27,000	118,255	118,255	12	\$5,921	\$4,441
3	Fire Station 3 Lighting	06/12/2009	\$18,038	\$9,019	57,719	57,719	6	\$2,889	\$2,167
4	Fire Station 2 Lighting	01/00/1900	\$13,875	\$6,938	33,574	33,574	3	\$1,687	\$1,265
5	Animal Shelter Lighting	01/00/1900	\$6,144	\$3,072	3,506	3,506	1	\$178	\$134
6	Office on Aging Lighting	07/07/2009	\$32,436	\$16,218	37,266	37,266	9	\$1,890	\$1,418
7	Park Lakewood Lighting	06/21/2009	\$40,238	\$20,119	32,439	32,439	8	\$1,632	\$1,224
		Total	\$317,731		478,755	478,755	89	\$24,060	\$18,045

#### Docket No. 13-0183

Site: 12650 Detroit Avenue

#### Notes

(1) Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of \$0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC dated 9/15/2010, not to exceed the lesser of 50% of the project cost or \$250,000 per project. The rebate also cannot exceed \$500,000 per customer per year, per utility service territory.



\$0

#### Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh (A)	Util	ity Avoided Cost \$/MWh (B)	Ui	ility Avoided Cost \$ (C)	ι	Jtility Cost \$ (D)	Cash Rebate \$ (E)	Administrator Variable Fee \$ (F)	То	tal Utility Cost \$ (G)	UCT (H)
1	196	\$	308	\$	60,422	\$	579	\$7,397		\$	7,976	7.6
2	118	\$	308	\$	36,456	\$	579	\$4,441		\$	5,019	7.26
3	58	\$	308	\$	17,794	\$	579	\$2,167		\$	2,745	6.48
4	34	\$	308	\$	10,350	\$	579	\$1,265		\$	1,844	5.61
5	4	\$	308	\$	1,081	\$	579	\$134		\$	712	1.52
6	37	\$	308	\$	11,488	\$	579	\$1,418		\$	1,996	5.76
7	32	\$	308	\$	10,000	\$	579	\$1,224		\$	1,803	5.55
Total	479	\$	308		147,591		4,050	\$18,045	\$0		22,095	6.7

#### Notes

(A) From Exhibit 2, = kWh saved / 1000

(B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices. This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).

(C) = (A) \* (B)

- (D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.
- (E) This is the amount of the cash rebate paid to the customer for this project.
- (F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.

(G) = (D) + (E) + (F)

(H) =(C) / (G)

# City of Lakewood ~ City of Lakewood Docket No. 13-0183

Site: 12650 Detroit Avenue

#### Customer Legal Entity Name: City of Lakewood

#### Site Address: City of Lakewood Principal Address: 12650 Detroit Road

		Principal Address:	12650 Detroit Road		
Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	What date would you have replaced your equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	Refuse Facility Lighting	Retrofit existing 112 lamps with 18 lamps. GE Proline Ballast. GE F2818 lamp	FE Lighting Calc	July 2012 Phase out of t12	NA
2	Police Dept Lighting	Retrofit existing 112 lamps with 18 lamps. GE Proline Ballast. GE F28t8 lamp	FE Lighting Calc.	N/A	NA
3	Service Garage Lighting	Retrofit existing 112 lamps with 18 lamps. GE Proline Ballast. GE F2818 lamp	FE Lighting Calo	July 2012 Phase out of t12s	NA
4	Water Treatment Lighting	Retrofit existing 112 lamps with 18 lamps. GE Proline Ballast. GE F2818 lamp	FE Lighting Calc	41091	NIA
5	Winterhurst Ice Rink Lighting	Retrofit existing 112 lamps with 18 lamps. GE Proline Ballast. GE F2818 lamp	FE Lighting Calc.	July 2012 Phase out of t12	NA
6	Youth Services Lighting	Retrofit existing 112 lamps with 18 lamps. GE Proline Ballast. GE F2818 lamp	FE Lighting Calo	July 2012Phase out of 112s	NA
7	Lakewood Street Lighting	Replacement of traffic lights throughout the city to LED traffic lights Leotek LED. TSL- 12R-UX-IL3-A1	FE Lighting Calc.	N/A	NA
8	Winterhurst HVAC	0	0	N/A	The existing HVAC system was 30 years old and parts were not available for repair.
9	City Hall Chillers	Existing chillers needed to be replaced and upgraded. The existing equipment was over 40 years old and was using R-11 Refrigerant	0	N/A	N/A

Docket No. 13-0183 Site: 12650 Detroit Road

#### Rev (7.6.2011)

Exhibit 1

#### Exhibit 2

## Customer Legal Entity Name: City of Lakewood Site Address: City of Lakewood

Principal Address: 12650 Detroit Road

Unadjusted

Usage, kwh (A)

Weather Adjusted Usage with Energy Efficiency Addbacks, kwh

(c) Note 1

Weather Adjusted

Usage, kwh (B)

	Average	0		0 0	5				
Project Number	Project Name	In-Service Date	Project Cost \$	50% of Project Cost \$	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) \$	Eligible Rebate Amount (H) \$ Note 2
1	Refuse Facility Lighting	05/15/2009	\$40,763	\$20,382	67,648	67,648	11	\$3,382	\$2,537
2	Police Dept Lighting	04/20/2009	\$68,513	\$34,257	85,779	85,779	9	\$4,318	\$3,239
3	Service Garage Lighting	06/14/2009	\$37,463	\$18,732	330,055	330,055	55	\$16,503	\$12,377
4	Water Treatment Lighting	05/07/2009	\$27,751	\$13,876	81,295	81,295	12	\$4,089	\$3,067
5	Winterhurst Ice Rink Lighting	05/12/2009	\$41,623	\$20,812	87,725	87,725	14	\$4,407	\$3,305
6	Youth Services Lighting	08/01/2009	\$14,400	\$7,200	10,023	10,023	2	\$514	\$386
7	Lakewood Street Lighting	06/27/2011	\$68,100	\$34,050	449,616	449,616	98	\$22,481	\$16,861
8	Winterhurst HVAC	09/01/2009	\$963,000	\$481,500	201,193	201,193	-	\$16,095	\$12,071
9	City Hall Chillers	06/23/2009	\$809,611	\$404,806	129,225	129,225	-	\$10,338	\$7,754
					-	-	-		
					-	-	-		
		Total	\$2,071,224		1,442,559	1,442,559	201	\$82,127	\$61,595

**Docket No.** 13-0183 **Site:** 12650 Detroit Road

Notes

(1) Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of \$0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC dated 9/15/2010, not to exceed the lesser of 50% of the project cost or \$250,000 per project. The rebate also cannot exceed \$500,000 per customer per year, per utility service territory.



UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Util	lity Avoided Cost \$/MWh	U	Itility Avoided Cost \$	l	Jtility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Тс	otal Utility Cost \$	UCT
	(A)		(B)		(C)		(D)	(E)	(F)		(G)	(H)
1	68	\$	308	\$	20,855	\$	394	\$2,537		\$	2,931	7.1
2	86	\$	308	\$	26,444	\$	394	\$3,239		\$	3,633	7.28
3	330	\$	308	\$	101,749	\$	394	\$12,377		\$	12,771	7.97
4	81	\$	308	\$	25,062	\$	394	\$12,377		\$	12,771	1.96
5	88	\$	308	\$	27,044	\$	394	\$3,067		\$	3,461	7.81
6	10	\$	308	\$	3,090	\$	394	\$3,305		\$	3,699	0.84
7	450	\$	308	\$	138,608	\$	394	\$386		\$	780	177.82
8	201	\$	308	\$	62,024	\$	394	\$12,377		\$	12,771	4.86
9	129	\$	308	\$	39,837	\$	394	\$12,071		\$	12,465	3.20
Total	1,443	\$	308		444,712		3,546	\$61,736	\$0		65,282	6.8

#### Notes

(A) From Exhibit 2, = kWh saved / 1000

(B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices. This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).

(C) = (A) \* (B)

- (D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.
- (E) This is the amount of the cash rebate paid to the customer for this project.
- (F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.

(G) = (D) + (E) + (F)

(H) =(C) / (G)

City of Lakewood ~ City of Lakewood Docket No. 13-0183

Site: 12650 Detroit Road

#### Lighting Inventory Form

 Ageloant Name:
 Op at Liaberood
 Instructions: Passas as one line for alkn fidure styles in a loom or ana.

 Facily Falmer:
 Annul Theker
 For eating or proqued control, choose OC for Occupany Sensor, DVIL'10 or photosensor, or DOK for rome. Durinks must asses energy to qualify, Date

 Date:
 The training or photose Address of CU1 and or d training and control. Alk of the quarties of sensors in Cu1mm K, with the audits calculated and unit choose and cu1mm and the sensors in Cu1mm K, with the audits calculated and unit choose and cu1mm and the sensors in Cu1mm K, with the audits calculated and unit choose and cu1mm and the sensors in Cu1mm K, with the audits calculated and unit choose and cu1mm and the sensors in Cu1mm K, with the audits calculated and unit choose and cu1mm and the sensors in Cu1mm K, with the audits calculated and the sensors in Cu1mm K, with the audits calculated and the sensors in Cu1mm K, with the audits calculated and the sensors in Cu1mm K with the audits calculated and the sensors in Cu1mm K with the audits calculated and the sensors in Cu1mm K with the audits calculated and the sensors in Cu1mm K with the audits calculated and the sensors in Cu1mm K with the audits calculated and the sensors in Cu1mm K with the audits calculated and the sensors in Cu1mm K with the sensors in Cu1mm K with the audits calculated and the sensors in Cu1mm K with the sensors

		PROJECT	BASIC INFORMATION			PRE-IN	STALLATION			POST-INSTA	LLATION							Energy Calc	ulations					Post
Line Building Address Floor Item	r Area Description	Interior or Exterior Fixture	Predominant Space Type	Area Cooling	Pre Fixture Gty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Existing Space Control (kW) drop down	Existing Post Post Fixture Code Sensor Fixture Quantity Qty When senicable	Post Watts/ Fixture	Post KW / Space	Proposed Control	Proposed Interior Change Sensor in Connected	Exterior Change in	Change in Applicant Connected Coincidence	Coincidence Interact Factor Facto	ive Interactive ir Factor	Pre Post Controls Control	a Demand Demand Savings	Applicant Equivalent	Prescribed Equivalent	Annual Interior	Annual Annual kWh Exterior Saved	Annual kWh Saved Sheet
							(W)	(kW) drop down	Quantity Wen applicable	Fixture (W)	Space (kW)	Please enter DAYLTG, OCC or MONE	Quantity Load When applicable (kW) excluding	Connected Load (kW)	Load Factor (kW) (CF) CFL or LED Estimate	(demar	nd) (energy)	Factor Factor	Savings Savings (KW) (kW) (kW) CFLs or excluding excluding LED Exit CFLs or CFLs or Signs	Full Load Hours	Full Load Hours	Fixture kWh Saved	Fixture kWh Saved exit signs	(Sensors Number only)
													CFLs or Exit Signs	excluding CFLs or Exit Signs	CFL or LED Estimate				excluding excluding LED Exit	(EFLH) Estimate		(excluding CELs or Exit	(excluding only) CELs or Exit	
														or Exit origina	and angle				Exit Signs Exit Signs	Conners		Signs)	Signs)	
e.g. 400 North Street 2 e.g. Exemple 1	Office	Interior Exterior	Office - Small	Cooled Space	3	F44LL	112	0.34 NONE 0.25 OCC	3 CFT55/1-BX 5 5 Example Cut Sheet 2	58	0.17	OCC DAVITO	3		0.17 84%	84% 34%	12%	30%	0.19	2,808 8,760	3,435		646	194 1 260 1A
		Exterior	Plessasvani - Pasi P000	Uncooled space	5	Example Colloneel /							-	0.13				30% 50%					208	260 1A
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3 1	Office	Interior Interior Interior Interior	Office - Small	Cooled Space Conled Space	1	F44SS FI20/1	188	0.19 NONE 0.02 NONE	1 F44ILL 1 FLED5/1	112	0.11	NONE	0.08		0.02	84% 34% 100% 34%	12%		0.09 0.02		3,435	292	147	
5 1	Office	Interior	Office - Small	Cooled Space	1	MH100/1	128	0.13 NONE	1 Cut Sheet 1	26	0.03	NONE	0.10		0.02	84% 34%	12%		0.11		3,435	392	147	
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Line Building Address Floo	r Area Description		Predominant Space Type	Area Cooling	Pre Fixture Pre Fixture Code Oty	Pre Watts / Pre kW	Existing Exis	ating Post		Post Watts/ Fixture (W)	Post kW /	Proposed	Proposed Int	erior Change	Exterior Cha	tge in Applicant	Coincidence Inte	actor Factor mand) (energy)	Pre Post Controls Controls Factor Factor	Interior Exterior	Demand Ap	plicant Pr	escribed Ann	ual Annua	ual Annual kW	Wh Annual kWh	Fixture Cut
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Page 2 of 4

Project Estimated Savings Sumi		
stimated Annual kWh Savings	3,506	
otal Change in Connected Load	0.89	
nnual Estimated Cost Souings	\$350.60	1
nnual Estimated Cost Savings	φ330.00	
nnual Operating Hours	4,500	
		-
nterior Lighting Incentive @ 0.05/kWh (excluding retrofit CFLs, ensors, or LED exit signs)	\$167.95	
xterior Lighting Incentive @ 0.05/kWh (excluding retrofit CFLs, ensors, or LED exit signs)	\$0.00	
otal retrofit CFL Incentive @ 1/screw-in CFL lamp; \$15/hard- rired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00	
otal retrofit LED Exit Incentive @ 10/exit sign	\$10.00	-
otal Lighting Controls Incentive @ 25/sensor (includes all Lighting controls, both interior and exterior)	\$0.00	
otal Calculated Incentive	\$177.95	7
otal Fixture Quantity excluding retrofit FLs and LED Exit Sign	18	
otal Lamp Quantity for retrofit Screw-In FLs	0	
otal Lamp Quantity for retrofit Hard-Wired FLs	0	
otal Fixture Quantity for retrofit LED Exit igns	1	
otal Quantity for Occupancy Sensors	0	
otal Quantity for Daylight Sensors	0	

The fire station is in use 24/7.		
Demand Savings (For Internal Use Only)	1.00	

#### Lighting Inventory Form

 Applicant Name
 Og & Laborendi

 Zahl Name
 Og / M

 Zahl Name
 Og / M

 Data
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Line Building Address Floor	Area Description	PROJECT B Interior or Exterior Fixture	ASIC INFORMATION Predominant Space Type	Area Cooling	Pre Fixture Oty	PRE-IN Pre Fixture Code	STALLATION Pre Watts / Pr Fixture S (W)	e kW / pace kW)	Existing Existing Control drop down Quantity When sedicable	Post Fixture Oty	Post Fixture Code	POST-INSTA Post Watts/ Fixture (W)	Post KW / Space (kW)	Proposed Control Please enter DATLTG, OCC or NONE.	Proposed I Sensor Quantity	nterior Change in Connected	Exterior Change in	Change in Connected	Applicant Coincidence	Coincidence Factor	Interactive Factor	Interactive Factor	Energy Ca Pre Pos Controls Contr	culations Interio sis Demar	r Exterior d Demand	Demand App Savings Equ	licant Pres valent Equi	cribed Annua valent Interio	r Exterior	Annual kWh Saved	Post Annual kWh Fixture C Seved Sheet
							(W) ·	xw)	When applicable	aty			(kw)	DATLEG, OCC or NONE.	Quantity When applicable	Load (kW) excluding CFLs or Exit Signs	Connected Load (kW) excluding CFLs or Exit Signs	Load (kW) CFL or LED exit sign	Coincidence Factor (CF) Estimate		(demand)	(energy)	Pactor Pact	r Saving (kW) excludi CFLs ( Exit Sig	s Savings (kW) ng excluding r CFLs or	(KW) Full CFLs or Hi LED Exit (E Signs Est	Load Full surs Ho FLH) imate	Load Pixture Saver (exclud CFLs or	Wh Fixture KW I Saved ng (excluding Exit CFLs or Ex ) Signs)	(CFL or LED exit signs only) It	only)
e.g. 400 North Street 2 e.g. Example 1	Office Restaurant	Interior Exterior	Office - Small Realawant - Fast Food	Cooled Space Uncooled space	3	F44LL Example Cut Sheet 1	112 50	0.34 0.25	NONE OCC 5	3	CFT55/1-BX Example Cut Sheet 2	58 25	0.17 0.13	OCC DAYLTG	3 5		0.13	0.17	84% 88%	84% 88%	34%	12%	30% 50%			0.19 2,	808 3. 760 4.	435		646	194 1 260 1A
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39 40 etroit Ave. Lakewood, O B 41 B 42 B	Offices Offices Offices Offices	Interior Interior	Office - Large Office - Large Office - Large Office - Large Office - Large	Cooled Space Cooled Space Cooled Space	106 30	F44SS F42SS	188 94 128	9.93 2.82	NONE NONE NONE	106 30	F44ILL F42ILL	112 59	11.87 1.77	NONE NONE NONE		8.06 1.05				84% 84%	34% 34%	12% 12% 12%		9.07 1.18 2.41			3.	435 30,99	3		
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Building Address	Floor Area Description	Interior or Exterior Fixture	Predominant Space Type	Area Cooling	Pre Fixture Pre Fixture Code Oty	Pre Watts / Pre kW / Fixture Space (W) (kW)	Existing Existing Control Sensor drop down Quantity When applicable	Post Post Fixture Code Fixture	Post Watts/ Fixture (W)	Post KW / Space (kW)	Proposed Control Please enter MINE, OCC or NONE.	Proposed Inte Sensor in Quantity	rior Change Connected	Exterior ( Change in C Connected Load (kW) cluding CFLs C r Exit Signs	change in Appl connected Coinci	cant Coincid dence Fact	r Factor (demand)	e Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Interior Exterior Demand Demand Demand Savings	Applicant	Prescribed	Annual Interior	Exterior	knnual kWh Annual kW Saved Saved
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						(11) (81)	When applicable	(d)	()	()	MILTG, OCC or	When applicable (KV	/) excluding	Load (kW)	Load Fac (kW) (C FL or LED Esti	E)	(Germania)	(energy)	1 80.000	1 40.101	Savings Savings (kW) (kW) (kW) CFLs or excluding excluding LED Exit CFLs or CFLs or Signs	Hours	Hours	Fixture kWh Saved (excluding CFLs or Exit	Fixture kWh (CF Saved et (excluding CFLs or Exit	CFL or LED (Sensors exit signs only)
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Page 2 of 4

Project Estimate Savings Sum		
Estimated Annual kWh Savings	195,996	
otal Change in Connected Load	50.39	
Annual Estimated Cost Savings	\$19,599.60	
Annual Operating Hours	4,101	
nterior Lighting Incentive @ 60.05/kWh (excluding retrofit CFLs, ensors, or LED exit signs)	\$9,623.20	
Exterior Lighting Incentive @ 60.05/kWh (excluding retrofit CFLs, ensors, or LED exit signs)	\$0.00	
otal retrofit CFL Incentive @ 1/screw-in CFL lamp; \$15/hard- vired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00	
otal retrofit LED Exit Incentive @	\$240.00	
otal Lighting Controls Incentive @ 25/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00	
		-
otal Calculated Incentive	\$9,863.20	
otal Fixture Quantity excluding retrofit FLs and LED Exit Sign	712	
otal Lamp Quantity for retrofit Screw-In FLs	0	
total Lamp Quantity for retrofit Hard-Wired	0	
Total Fixture Quantity for retrofit LED Exit bigns	24	
otal Quantity for Occupancy Sensors	0	
otal Quantity for Daylight Sensors	0	

Demand Savings (For Internal Use Only)	56.79	

#### Lighting Inventory Form

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PROJECT BASIC INFORMATION	PRE-INST	TALLATION		POST-INSTAL	LLATION	Interface Determined in the second				Energy Calcu	lations	turine Downed	1	Bard La Barrad		Post
Line Building Address Floor Area Description Interior or Exterior Predominant Space Type Figure 9	Area Cooling Pre Fixture Code P Oty	Pre Watts / Pre kW / I Fixture Space (W) (kW) '	Existing Existing Post Post Fixture Code Control Sensor Fixture drop down Quantity Oty When selicable	Post Watts/ Fixture (W)	Post KW / Proposed Proposed Space Control Sensor (kW) Please roter DWTLG, OCC ar NDNE.	in Connected Change in Connected	Applicant Coincidence	Factor	Factor	Factor Controls Controls	Demand D	imand Savings	Applicant Presc Equivalent Equiv	ilent Interior	Exterior Saved	Saved Sheet
		(W) (XW)	Guantity ORy When applicable		(KW) DWLTG, OCC ar NONE. Guantity When applicable	Load Connected Load (KW) excluding Load (KW) (KW) CFLs or Exit excluding CFLs CFL or LED	Factor (CF) Estimate		demand)	energy) Pactor Pactor	(kW)	(kW) CFLs or	Hours Hou	rs Saved	Saved exit signs	a only)
						CFLs or Exit excluding CFLs CFL or LED Signs or Exit Signs exit sign	estimate				CFLs or C	Ls or Signs	Estimate	CFLs or Exit	CFLs or Exit	
											Exit Signs Ex	t Signa		Signs)	Signs)	
e.g. 400 North Street 2 Office Interior Office - Small e.g. Example 1 Restaurant Exterior Restaurant - Fast Food	Cooled Space 3 F44LL Unccoled space 5 Example Cut Sheet 1	112 0.34 50 0.25	NONE 3 CFT55/1-BX OCC 5 5 Example Cut Sheet 2	58 25	0.17 OCC 3 0.13 DAYLTG 5	0.17	84% 88%	84% 88%	34%	12% 30% 30% 50%		0.19	2,808 3,4 8,760 4,1	6	646 208	194 1 260 1A
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Building Address	Floor Area Description	Interior or Exterior Fixture	Predominant Space Type	Area Cooling	Pre Fixture Code Oty	Pre Watts / Pre kW /	Existing Existing Post Post Fixture Control Sensor Fixture	e Code Post Watts/ Fixture (W)	Post kW /	Proposed	Proposed Interior Chan	ge Exterior	Change in	Applicant Coloridore	Coincidence Factor	Interactive I	Factor (energy)	Pre Controls Cr Factor F	Post la ontrols D Factor S	terior Exterior Demand	Applicant	Prescribed	Annual	Annual Exterior	Annual kWh Saved Saved
		Finare			City	Fixture Space (W) (kW)	Control Sensor Fisture drop.down Quantity Oty	(W)	Space (kW)	Control Please enter DAYLTG, OCC or NONE.	Sensor in Connecte Quantity Load	d Change in Connected Load (kW) t excluding CFLs or Exit Signs	Connected Load (kW) CFL or LED	Factor	Factor	Factor (demand)	(energy)	Factor F	Factor S	emand Demand Savings avings Savings (kW) (kW) (kW) CFLs or cluding excluding LED Exit FLs or CFLs or Signs it Signs Exit Signs	Full Load	Full Load	Interior Fixture kWh Saved (excluding CFLs or Exit	Exempr Fixture kWh ( Saved (excluding CFLs or Exit	ICFL or LED (Sensors
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Page 2 of 4

Project Estimate Savings Sum		
Estimated Annual kWh Savings	118,255	
otal Change in Connected Load	12.06	
		-
Annual Estimated Cost Savings	\$11,825.50	
Annual Operating Hours	8,760	
		3
nterior Lighting Incentive @ 60.05/kWh (excluding retrofit CFLs, ensors, or LED exit signs)	\$5,890.65	
Exterior Lighting Incentive @ 60.05/kWh (excluding retrofit CFLs, ensors, or LED exit signs)	\$0.00	
Total retrofit CFL Incentive @ S1/screw-in CFL lamp; \$15/hard- vired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00	
otal retrofit LED Exit Incentive @ 00/exit sign	\$30.00	
Total Lighting Controls Incentive @ 25/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00	
		_
otal Calculated Incentive	\$5,920.65	
otal Fixture Quantity excluding retrofit	239	
CFLs and LED Exit Sign Total Lamp Quantity for retrofit Screw-In	0	
CFLs otal Lamp Quantity for retrofit Hard-Wired CFLs	0	
otal Fixture Quantity for retrofit LED Exit	3	
Signs Total Quantity for Occupancy Sensors	0	
otal Quantity for Daylight Sensors	0	

equivalent full-load hours (EFLH) for facility type "Other" indicated on the Lighting Form tab

The fire station is in use 24/7.		
Demand Savings (For Internal Use Only)	16.15	

#### Lighting Inventory Form

 Ageboart Name:
 Op at Liaberood
 Instructions: Passas as one line for alkh future syse in a loom or ana.

 Facily Falser:
 For satility or propagation durited, dhouse OCG for Occupany Samore, DNUTG for photosensor, or DOKE for rone. During and use energy to qualify.

 Date:
 The satility or photosensor of CDL and or kit games and control, dhouse OCG for Occupany Samore, DNUTG for photosensor, or phote and as also energy to qualify.

PROJECT BASIC INFORMATION	PRE- Area Cooling Pre Fixture Pre Fixture Code	-INSTALLATION	Pre kW / Pristing Pristing Post Post Firture Code	POST-INSTA Post Watter	LLATION Proposed Proposed	Interior Channel Exterior Channe in	Annicant	Coincidence	Interactive	Energy Ca Interactive Pro Pos	culations	Exterior Dem	and Annicant	Prescribed	Annual	Annual Annual KW	Post In Annual KWIN Fixture Cut
Line Building Address Floor Area Description Interior or Exterior Predominant Space Type ham Fixture	City County	Fixture (W)	Pre kW / Existing Existing Post Space Control Sensor Finture Code (kW) drop down Quantity Qty When selicable	Fixture (W)	Post KW / Proposed Proposed Space Control Sensor (KW) Plassa enter DWLTG, OCC or NONE. When applicable	in Connected Change in Connected Load Connected Load	Coincidence Factor	Factor	Factor (demand)	Factor Controls Contro (energy) Factor Factor	als Demand ar Savings	Demand Savi Savings (k)	ngs Equivalent V) Ful Load	Equivalent Full Load F	Interior Fixture kWh	Exterior Saved Fixture kWh (CFL or LE)	Saved Sheet D (Sensors Number
			When applicable		NONE. When applicable	Load Connected Load (kW) excluding Load (kW) CFLs or Exit signs or Exit sign	Factor (CF) Estimate				(kW) excluding	Savings (kV (kW) CFL: excluding LED CFLs or Sig	a or Hours Exit (EFLH)	Hours	Saved (excluding	Saved exit signs (excluding only)	cmly)
						Signs or Exit Signs exit sign					CFLs or Exit Signs	CFLs or Sig Exit Signs	ns Estimate	c	FLs or Exit Signs)	CFLs or Exit Signs)	
e.g. 400 North Street 2 Office Interior Office - Small e.g. Example 1 Restaurant Exterior Restaurant - Fast Food	Cooled Space 3 F44LL	112	0.34 NONE 3 CFT55/1-BX 0.25 OCC 5 5 Example Cut Sheet 2	58	0.17 OCC 3	0.13	84%	84%	34%	12% 30%	_	0.:	9 2,808 8,760	3,435			194 1 260 1A
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			ASIC INFORMATION			NSTALLATION			POST-INSTA							Energy Calcu	ations						
Building Address	Floor Area Description	Interior or Exterior Fixture	Predominant Space Type	Area Cooling	Pre Fixture Pre Fixture Code Qty			ting Existing Post Post Fixture Code trol Sensor Fixture	Post Watts/ Fixture (W)	Post kW /	Proposed Propose	d Interior Change Exterior Change		Coincidence Inter Factor Fai	tor Factor and) (energy)	Pre Post Controls Controls Factor Factor	Interior Ex Demand De	terior Deman	nd Applicant	Prescribed An	nual Annua arior Exterio	i Annual kWh r Saved	h Annual kW Saved
		T LA GAL			uly .	Fixture Spa (W) (kW	ce Cont n) drop d	trol Sensor Fixture down Quantity Qty	(W)	Space (kW)	Control Sensor lesse enter NUTG, OCC or NONE. When applic	In Connected Change in Conne Load Connected Load (kW) excluding Load (kW) (kW CPLs or Exit excluding CPLs CFL or Signs or Exit Signs exit s	d Factor	(den	for Factor and) (energy)	Factor Factor	Savings Sa (kW) ( excluding exc CFLs or CF Exit Signs Exit	vings (kW)	) Full Load	Full Load Fixtu	e kWh Fixture k		D (Sensors only)
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Page 2 of 4

Project Estimated Savings Sum		
Estimated Annual kWh Savings	33,574	
Total Change in Connected Load	3.43	
Annual Estimated Cost Savings	\$3,357.40	
Annual Operating Hours	8,760	
nterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$1,656.60	
Exterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00	
Total retrofit CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard- wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00	
Total retrofit LED Exit Incentive @ \$10/exit sign	\$30.00	
Total Lighting Controls Incentive @ \$25/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00	
		1
Total Calculated Incentive	\$1,686.60	
Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	59	
Total Lamp Quantity for retrofit Screw-In CFLs	0	
Fotal Lamp Quantity for retrofit Hard-Wired	0	
Fotal Fixture Quantity for retrofit LED Exit Bigns	3	
Fotal Quantity for Occupancy Sensors	0	
Fotal Quantity for Daylight Sensors	0	

The fire station is in use 24/7.		
Demand Savings (For Internal Use Only)	4.59	

#### Lighting Inventory Form

 Ageloant Name:
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			PROJECT	BASIC INFORMATION			PRE-INS	TALLATION					POST-INSTA	LLATION									Energy Calc	ulations							Post
La         Column Free         Co	Line Building Address Floor	Area Description	Interior or Exterior	Predominant Space Type	Area Cooling	Pre Foture	Pre Fixture Code	Pre Watts / Pre k	W/ Ex	sting Existing	Post	Post Fixture Code	Post Watts/	Post KW /	Proposed Propose	d Interior Cha	ige Exterior	Change in Connected	Applicant	Coincidence	Interactive I	Interactive	Pre Post	Interior Demond	Exterior	Demand Applica	nt Prescribe	ed Annual	Annual	Annual kWh A	Annual kWh Fixture Cu
								(W) (kV	v) **	op down Quantity	Qty		(W)	(kW)	Please enter Depution of Community	Load	Connected	Load	Factor		(demand)	(energy)	Factor Factor	Savings	Savings	(kW) Ful Los	d Full Loa	d Fixture kWh	Fixture kWh (	CFL or LED	(Sensors Number
Li         40 Moth 5hm         2         Office         Display         Articl         10         AN         Mode         5         5         6         40         Articl         5         6         40         Articl         6         40         Articl         5         6         40         Articl         6         41         6         41         6         41         6         41         6         41         6         41         6         41         6         45										When applicable					NONE. When applic	CFLs or E	ing Load (kW) it excluding CFLs	(kW) CFL or LED	(CF) Estimate					(kW) excluding	(kW) excluding	CFLs or Hours LED Exit (EFLH	Hours	Saved (excluding	Saved (excluding	exit signs only)	only)
Lag         All Non Short         2         Office         Small         Coded game         5         Full         SM																Signa	or Exit Signs	exit sign						CFLs or	CFLs or	Signs Estimat	ie i	CFLs or Exit	CFLs or Exit		
																								Exit Signs	Exit Signs			Signs)	Signs)		
	e.g. 400 North Street 2	Office	Interior	Office - Small	Cooled Space	3	F44ILL	112 0.3	14 N	IONE	3	CFT55/1-BX	58	0.17	00C 3			0.17	84%	84%	34%	12%	30%			0.19 2,808	3,435			646	194 1
	e.g. Example 1	Restaurant	Exterior	Reataurant - Fast Food	Uncooled space	5	Example Cut Sheet 1				5 8	Example Cut Sheet 2	25				0.13		88%	88%			30% 50%		0.11				208		260 1A
	1 1	Fire House	Interior	Other - Please estimate CF and EFLH	Cooled Space	24	F42SS	94 2.2	16 N	IONE	24	F42ILL	59	1.42	NONE	0.84			100%	100%	34%	12%		1.13		8,780	8,780	8,241			
	2 1	Fire House	Interior	Other - Please estimate CF and EFLH Other - Please estimate CF and EFLH	Cooled Space	42	E4400	199 7.0	N N	IONE	42	EMIL	\$12	4.70	NONE	2.10			100%	100%				4.19		8,780	8,760	91.917			
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		PROJECT B	ASIC INFORMATION		PRE-I	NSTALLATION			F	POST-INSTALL	ATION								Energy Calcu	ations							Post
Line Building Address Floor	Area Descrip	iption Interior or Exterior	Predominant Space Type	Area Cooling	Pre Fixture Code Oty	Pre Watta / Pre kW /	Existing Existing	Post Post F	Fixture Code P	ost Watts/	Post kW / P	Proposed Pro	posed Interior	Change Exterior	Change in	Applicant 0	Coincidence Interac	tive Interactive	Pre Post	Interior Exterio	r Demand	Applicant	Prescribed	Annual	Annual An	nual kWh Annual	Wh Fixture Cut
Item		Fisture			Qty	Fixture Space (W) (kW)	Existing Existing Control Sensor drop down Quantity When applicable	Fixture		fost Watts/ F Fixture (W)	Space (kW)	Control S Hease enter VLTG, OCC or NONE.	insor in Constantity Lo	Internet Intern	Connected Load (kW) Ls CFL or LED	Coincidence	Factor Fact	ive Interactive ir Factor hd) (energy)	Pre Post Controls Controls Factor Factor	Demand Deman Savings Saving (kW) (kW) excluding excludin CFLs or CFLs o Exit Signs Exit Sign	d Savings	Equivalent	Equivalent	Interior	Exterior	Saved Save	ved Sheet
						(W) (kW)	drop down Quantity	Oty		(W)	(kW) _ 2	lease erter Qu	antity Lo	d Connected	Load	Factor (CF) Estimate	(dema	nd) (energy)	Factor Factor	Savings Savings	s (kW)	Full Load	Full Load 8	Fixture kWh F Saved (excluding CFLs or Exit C	Fixture kWh (CF Saved ex (excluding CFLs or Exit	L or LED (Sens it signs only only)	sors Number
							When applicable					NUME When	applicable (kW) ex	duding Load (kW)	(kW)	(CF)				(kW) (kW)	CFLs or	Hours (EFLH) Estimate	Hours	Saved	Saved ex	it signs only	50
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Page 2 of 4

Project Estimate Savings Sum		
Estimated Annual kWh Savings	57,719	
Fotal Change in Connected Load	5.89	
		1
Annual Estimated Cost Savings	\$5,771.90	
Annual Operating Hours	8,760	
ntenien Linkting Incenting O		1
nterior Lighting Incentive @ 60.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$2,878.60	
Exterior Lighting Incentive @ 60.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00	
Fotal retrofit CFL Incentive @ S1/screw-in CFL lamp; \$15/hard- vired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00	
Fotal retrofit LED Exit Incentive @ 610/exit sign	\$10.00	
Fotal Lighting Controls Incentive @ 625/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00	
		1
Total Calculated Incentive	\$2,888.60	
otal Fixture Quantity excluding retrofit	04	
FLs and LED Exit Sign otal Lamp Quantity for retrofit Screw-In	84	
CFLs	0	
otal Lamp Quantity for retrofit Hard-Wired CFLs	0	
otal Fixture Quantity for retrofit LED Exit	1	
otal Quantity for Occupancy Sensors	0	
otal Quantity for Daylight Sensors	0	

equivalent full-load hours (EFLH) for facility type "Other" indicated on the Lighting Form tab

The fire station is in use 24/7.		
Demand Savings (For Internal Use Only)	7.88	

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					PROJECT BASIC					INSTALLATION (RE					NEW CONSTRUCTION)				TINSTALLATIC							Energy Calculations				
New Constructi or Retroft		Address Fi	Toor Area Description	Space Description	Interfor or Exterior Fixture	Predominant Space Type	Exterior Lighting Description (Exterior Lighting Only)	Ana Cooling	Pre Fixture Pre Fixture Code Oty		Space Co	isting Existi Introl Sens		inits Juans Feet	Lighting Power Density (Wunit)	Daseline kW /Space F	Post Post Fixture Code	e Post Watts/ Foture	Post kW/ Sizece	Are	Proposed Proposed Control Sensor	Change in Connected Lo		Coincidence   Factor		Easter Controls	Controls Stations	Equivalent Ec		Acrual k Wh Saved
										(#)	(kW) **	Cuart	tr o			(630)	αγ	(10)	(607)	Sensors Required	drap down Quantity When emiled	(kW)	Factor		(demand)	(energy) Factor	Factor (kW)	FullLoad F	Ull Load	
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Page 2 of 4

Project Estimate Savings Sum	
Lighting	ļ
Estimated Annual kWh Savings	449,616
Total Change in Connected Load	98.35
Annual Estimated Cost Savings	\$44,961.60
Annual Operating Hours	4,867
Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00
Exterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$22,480.80
Total retrofit CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard- wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00
Total retrofit LED Exit Incentive @ \$10/exit sign	\$0.00
Total Lighting Controls Incentive @ \$25/occupancy sensor and \$25/daylight sensor (includes all Lighting Controls, both interior and exterior)	\$0.00
Total Calculated Incentive	\$22,480.80
Total Fixture Quantity excluding retrofit CFLs and LED Exit Signs Total Lamp Quantity for retrofit Screw-In CFLs Total Lamp Quantity for retrofit Hard-Wired CFLs	762 0 0

Total Fixture Quantity for retrofit LED Exit Signs	0	
Total Quantity for Occupancy Sensors	0	
Total Quantity for Daylight Sensors	0	
Please briefly describe how you estimate equivalent full-load hours (EFLH) for facilit		

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		PROJECT I	ASIC INFORMATION			PRE-INS	STALLATION					POST-INSTA	LLATION									Energy Calc	ulations							Post
Line Building Address Floor Item	Area Description	Interior or Exterior Fisture	Predominant Space Type	Area Cooling	Pre Fixture Oty	Pre Fixture Code	Pre Watts / Pre kW Fixture Space (W) (kW)	/ Existing Control drop down	Existing Sensor	Post P Fixture	Post Fixture Code	Post Watts/ Fixture	Post KW / Space (kW)	Proposed Control	Proposed In Sensor	terior Change E in Connected Ch	Exterior Ch hange in Co	hange in Applicat onnected Coincider	t Coincidence ce Factor	Interactive Factor	Factor	Pre Post Controls Control Fector Factor	Interior S Demand	Exterior Demand	Demand Applican Savings Equivalent	nt Prescribed nt Equivalent	Annual Interior	Annual A Exterior	nual kWh Ar Saved	seved Sheet
							(W) (kW)	drop down	Sensor Quantity Wen applicable	Qty		Fixture (W)		Control Please enter DAVLTG, OCC or NONE. W	Quantity hen applicable	Load Co kW) excluding Lo	onnected oed (kW)	Load Factor (kW) (CF) L or LED Estimat		(demand)	(energy)	Factor Factor	Savings (kW)	Savings (kW)	(kW) Ful Loar CFLs or Hours LED Exit (EFLH) Signs Estimate	d Full Load Hours	Fixture kWh Saved	Fixture kWh (C Saved 6	FL or LED (	(Sensors Number only)
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e.g. 400 North Street 2 e.g. Exemple 1	Office	Interior	Office - Small Postsward - East Food	Cooled Space	3	F44ILL Example Out Sheet 1	112 0.34	NONE		3	CFT55/1-BX Exemple Cut Sheet 2	58	0.17	OCC .	3			0.17 84%	84%	34%	12%	30%			0.19 2,808	3,435			646	194 1 260 1A
e.g. Example 1	Restaurant	Exterior	Filleraturanti - Falai Fold	Uncooled space	5							25					0.13	88%	88%			30% 50%		0.11	8,780			208		260 1A
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3 1	Office	Interior Interior Interior Interior	Office - Small	Cooled Space	60 10 17	F44SS	188 11.28 20 0.20 128 2.18	NONE		60	ELED5/1 Cut Sheet 1	112	8.72	NONE		4.56		415	84% 100% 84%	34%	12% 12% 12%		5.13		0.20	3,435	17,543		4.670	
4 1 5 1	Office	Interior	Office - Small	Cooled Space	17	El20/1 MH100/1	128 2.18	NONE		17	Cut Sheet 1	26	0.44	NONE		1.73		ens.	84%	34%	12%		1.95		0.10	3,435	6,671		1,472	
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173		NONE 173	1	12.29	NONE	9.30		0.15						10.47	0.22			35,794		1,472
1/3	21.14		L. L.			9.30	9.45							10.	0.20			33,134	37,266	
					N Ci	kte: If your total change in ell above will be red. Plea adjusting the predominant	connected load is gre as see row 4 on the In space type to "Other" values.	ater than or equal structions tab for i and estimating CF	to 50 kW the information on F and EFLH							-				

Project Estimate Savings Sum		
stimated Annual kWh Savings	37,266	
otal Change in Connected Load	9.45	
		-
nnual Estimated Cost Savings	\$3,726.60	
nnual Operating Hours	4,500	
		3
nterior Lighting Incentive @ 0.05/kWh (excluding retrofit CFLs, ensors, or LED exit signs)	\$1,789.70	
xterior Lighting Incentive @ 0.05/kWh (excluding retrofit CFLs, ensors, or LED exit signs)	\$0.00	
otal retrofit CFL Incentive @ 1/screw-in CFL lamp; \$15/hard- rired CFL lamp (includes all retrofit FLs, both interior and exterior)	\$0.00	
otal retrofit LED Exit Incentive @ 10/exit sign	\$100.00	-
otal Lighting Controls Incentive @ 25/sensor (includes all Lighting controls, both interior and exterior)	\$0.00	
		-
otal Calculated Incentive	\$1,889.70	
otal Fixture Quantity excluding retrofit		
FLs and LED Exit Sign	163	
otal Lamp Quantity for retrofit Screw-In FLs	0	
otal Lamp Quantity for retrofit Hard-Wired FLs	0	
otal Fixture Quantity for retrofit LED Exit igns	10	
otal Quantity for Occupancy Sensors	0	
otal Quantity for Daylight Sensors	0	

Demand Savings (For Internal Use Only)	10.67	

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Line Building Address Floor	Area Description	PROJECT B Interior or Exterior Fisture	ASIC INFORMATION Predominant Space Type	Area Cooling	Pre Fixture Gty	PRE-IP Pre Fisture Code	NSTALLATION Pre Watts / Fixture (W)	Pre kW / Existing Space Control (kW) drop down	Existing Post Sansor Quantity When applicable	POST-INST/ Post Watts/ Fixture (W)	ALLATION Post KW / Space (kW)	Proposed Control Please enter DATLTG, OCC or NONE.	Proposed Interior Chang Sensor in Connected Quantity Load (kW) excluding	e Exterior Change in Connected Load (kW)	Change in Applicant Connected Coincidence Load Factor (KW) (CF) CFL or LED Estimate	Coincidence Inte Factor F (de	ractive Interactive actor Factor mand) (energy)	Energy Cal Pre Post Controls Contro Factor Facto	sulations Interior Ex Demand De r Savings Sa (kW) (	tterior Demand savings twings (kW) (kW) CFLs or cluding LED Exit FLs or Signs	Applicant Equivalent Full Load Hours	Prescribed Equivalent Full Load Hours	Annual Interior Fixture kWh Sawed	Annual Annual kWh Exterior Saved Fixture kWh (CFL or LED Saved exit signs	Annual kWh Saved Sheet (Sensors Number only)
e.g. 400 North Street 2 e.g. Example 1	Office Restaurant	Interior Exterior	Office - Small Restaurant - Fast Food	Cooled Space Uncooled space	3			0.34 NONE 0.25 OCC		58 2 25	0.17 0.13	OCC DAYLTG	CFLs or Exit Signs	or Exit Signs	exit sign 0.17 84% 83%	84% 88%	34% 12%	30% 30% 50%	CFLs or CF Exit Signs Exit	t Signa	2,808 8,760		SFLs or Exit Signs)	CFLs or Exit Signs) 646	194 1 260 1A
1 1 2 1 3 1 4 1 5 1	Pavilion Pavilion	Exterior Interior Interior Interior Interior	Dusk-to-Dawn Lighting Shorage - Uncorditional Other - Passae astimate OF and EFLH Restaurant - 58-Down Restaurant - 58-Down Office - Smal Restaurant - Fast Food	Uncooled space Uncooled space Cooled space Cooled Space Cooled Space Cooled Space Uncooled Space	9 19 16 8 4 216 21	F42SS F42SS F41SS F44SS E120/1 F41SS F42SS	94 94 57 188 20	0.85 NONE 1.79 NONE 0.91 NONE 1.50 NONE 0.08 NONE	9         F42ILL           19         F42ILL           16         F41ILL           8         F44ILL           4         ELEDS'11           216         F41ILL           21         F42ILL	59 59 31 112 5	0.53 1.12 0.50 0.90 0.02	NONE NONE NONE NONE NONE	0.67 0.42 0.61	0.32	0.06	85% 88% 100%	34% 12% 34% 12% 34% 12%		0.57	0.08		3,833 2,388 3,760 4,156 8,760 3,435 4,156	1,588 1,564 2,830	1,207	
0 1 7 1 8 9 10 11	Pool House Refreshermit Area	Interior Interior	Restaurant - Fast Food	Uncooled space	210	F4255	57 94	1.97 NONE NONE NONE NONE NONE	216 P41ILL 21 F42ILL	59	1.24	NDNE NDNE NDNE NDNE NDNE NDNE	5.62			88%	42 122		6.32 0.65			4,156	3,055		
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			SASIC INFORMATION		PRE	-INSTALLATION			POST-INSTA	ILLATION									Energy	Calculations						
uilding Address	Floor Area Description	Interior or Exterior Fixture	Predominant Space Type	Area Cooling	Pre Fixture Pre Fixture Code Oty	Pre Watts / Pre kW /	Existing Control Sensor drop down Quantity When applicable	Post Post Fixture Cod	e Post Watts/ Fixture (W)	Post kW /	Proposed	Proposed Interi	r Change Exte	tior Change	in Applicant	Coincidence	Interactive Factor (demand)	Factor (energy)	Pre Controls Co Factor F	fost Int ntrols Der ictor Sar	erior Exterior Dema	nd Applicant	Prescribed	Annual	Annual A	Annual kWh Annual kV
		Finture			aty	Fixture Space (W) (kW)	dise demo	Oty	Poture	Space (kW)	Control Please enter DAVLTG, OCC or NONE.	Sensor in C Quantity	r Change Exte onnected Chan Load Conne excluding Load s or Exit igns or Exit	e in Connec	End Coincidence		Factor	Factor	Controls Co	ntrois Der	mand Demand Savin	gs Equivalent ) Full Load	f Equivalent Full Load	Interior Extense Mith	Exterior	Saved Saved
						(11) (41)	When applicable	6 G. J	()	()	DAYLTG, OCC or	When applicable (kW)	excluding Load	cted Load kW) (kW) g CFLs CFL or I	Factor (CF)		(contraints)	(errer 83)		0	vings Savings (kW kW) (kW) CFLs luding excluding LED E Ls or CFLs or Sign	or Hours	Hours	Fixture kWh Saved (excluding CFLs or Exit	Fixture kWh (I Saved (excluding CFLs or Exit	(CFL or LED (Sensor exit signs only)
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Project Estimated Savings Sum		
stimated Annual kWh Savings	32,439	
otal Change in Connected Load	8.42	
Annual Estimated Cost Savings	\$3,243.90	]
	<i>ф</i> 0, <u></u> 210100	-
Annual Operating Hours	4,355	
		J -
nterior Lighting Incentive @ 0.05/kWh (excluding retrofit CFLs, ensors, or LED exit signs)	\$1,532.15	
Exterior Lighting Incentive @ 0.05/kWh (excluding retrofit CFLs, ensors, or LED exit signs)	\$60.35	
Total retrofit CFL Incentive @ 1/screw-in CFL lamp; \$15/hard- vired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00	
otal retrofit LED Exit Incentive @	\$40.00	-
otal Lighting Controls Incentive @ 25/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00	
otal Calculated Incentive	\$1,632.50	]
	φ1,002.00	
otal Fixture Quantity excluding retrofit FLs and LED Exit Sign	289	
otal Lamp Quantity for retrofit Screw-In FLs	0	
otal Lamp Quantity for retrofit Hard-Wired	0	
FLs otal Fixture Quantity for retrofit LED Exit	4	
igns otal Quantity for Occupancy Sensors	0	
otal Quantity for Daylight Sensors	0	

Demand Savings (For Internal Use Only)	8.33	

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		PROJECT E	ASIC INFORMATION			PRE-IN	STALLATION					POST-INSTA	ALLATION									Energy Calc	ations							Post
Line Building Address Floor Item	Area Description	Interior or Exterior Fixture	Predominant Space Type	Area Cooling	Pre Fixture Oty	Pre Fixture Code	Pre Watts / Pre kW Fixture Space (W) (kW)	/ Existing Control drop down	Existing Sensor	Post I Fixture	Post Fixture Code	Post Watts/ Fixture	Post kW / Space (kW)	Proposed Prop Control Ser	osed Interio Isor in Co	or Change Exterior onnected Change in	Change in Connected	Applicant Coincidence	Coincidence Factor	Interactive Factor	Factor C	Pre Post ontrols Controls Factor Factor	Interior Demand	Exterior Demand	Demand Applica Savings Equivale	nt Prescribed int Equivalent	Annual Interior	Annual A Exterior	knnual kWh As Saved	saved Sheet
							(W) (kW)	drop down	Sensor Quantity Wen applicable	City		Fixture (W)	(kW)	Control Set Please enter DATLTG, OCC or NONE. When a	ntity picable (KW)	Load Connected excluding Load (kW)	Load (kW) CFL or LED	Factor (CF) Estimate		(demand)	(energy)	Factor Factor	Savings (kW)	Savings (kW)	(kW) Full Los CFLs or Hours LED Exit (EFLH Signs Estimat	d Full Load Hours	Fixture kWh Saved	Fixture kWh (I Saved	CFL or LED (	Sensors Number only)
															CFL	s or Exit Signs or Exit Signs	CFL or LED	Estimate					excluding	excluding	LED Exit (EFLH Signs Estimat		(excluding	(excluding	only)	
																orgina or Exit orgina	en agn						Exit Signs	Exit Signs	Calification of the second sec	~	Signs)	Signs)		
e.g. 400 North Street 2 e.g. Exemple 1	Office	Interior Exterior	Office - Small Restructed Ford Ford	Cooled Space	3	F44LL Example Cut Sheet 1	112 0.34	NONE		3	CFT55/1-BX	58	0.17	OCC DAYLTG	3		0.17	84% 88%	84%	34%	12%	30%			0.19 2,808 8,760	3,435			646	194 1 260 1A
e.g. Example 1	Restaurant	Exterior	ribelaurani, - raai rood	Lincooled space	5	Example Cut Sheet 1						25			5	0.13						30% 50%								260 1A
Netrol RD. Lakewood. Q         1           2         1           3         1           4         1           5         1           7         1           8         1           9         1           10         1           11         1           12         1           13         1           14         1           15         1           16         1           17         1           18         1           19         1           10         1           11         1           12         1           13         1           14         1           15         1           17         1	Office	Interior Interior	Other - Please estimate CF and EFLH Other - Please estimate CF and EFLH	Cooled Space Cooled Space Cooled Space Cooled Space Cooled Space	145 7		94 13.63 282 1.97	NONE		145 7	F42ILL F46ILL F44SS Cut Sheet 1 ELED5/1	59 175	8.58	NONE		5.08 0.75		100%	100%	34% 34% 34% 34% 34%	12%		6.80		8,760	8,760 8,760	49,792 7,349 27,020			
3 4	Office	Interior Interior Interior Interior	Other - Please estimate CF and EFLH Other - Please estimate CF and EFLH	Cooled Space Cooled Space	7 76 51 11	F44SS 180/1	262 1.37 188 14.25 80 4.08 20 0.22	NONE		76	F44SS Cut Sheet 1	188	14.29	NONE		2.75		100%	100%	34%	12%		3.69		8,760	8,760	27.020			
4 1 5 1	Office	Interior	Other - Please estimate CF and EFLH	Cooled Space	11	180/1 E120/1	20 0.22	NONE		11	ELED5/1	5	0.06	NONE			0.17		100%	34%	12%				0.22	8,760			1,619	
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Building Address 8			ASIC INFORMATION			ISTALLATION																			
	Floor Area Description	Interior or Exterior Fixture	Predominant Space Type	Area Cooling	Pre Fixture Pre Fixture Code Qty	Pre Watts / Pre kW / Fixture Space (W) (kW)	Existing Existing Post Post Fixture Code Control Sensor Fixture	Post Watts/ Fixture (W)	Post KW /	Proposed	Proposed Interior Cha Sensor in Connect	ige Exterior	Change in	Applicant C	Coincidence Factor	Interactive In Factor (demand)	feractive Factor Co (energy) F	Pre Po ntrols Cont actor Fac	ist Inte	rior Exterior Demand	Applicant	Prescribed	Annual Interior	Annual A Exterior	Annual kWh Saved Saved
		Pintere			uty	Fixture Space (W) (kW)	Existing Existing Post Post Fixture Code Control Sensor Fixture drop.down Quantity Oty Wen.applicate	(W)	Space (kW)	Control Please enter DATLTG, OCC or NONE.	Quantity Load	ed Change in Connected ing Load (kW) it excluding CFLs	Load	Factor	ractor	(demand)	(energy) E	actor Fac	tor Sav	ings Savings (kW)	Full Load	Full Load	Fixture kWh	Fixture kWh 1/	CFL or LED (Sensors
							When applicable			DAYLTG, OCC or NONE.	When applicable (kW) exclud	ing Load (kW)	Load (kW) CFL or LED	Factor (CF)					(k	ings Savings (kW) W) (kW) CFLs or using excluding LED Exit s or CFLs or Signs Signs Exit Signs	Hours (EFLH) Estimate	Hours	Fixture kWh Saved (excluding CFLs or Exit	Fixture kWh (C Saved (excluding CFLs or Exit	(CFL or LED (Sensors exit signs only)
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Project Estimate Savings Sum		
Estimated Annual kWh Savings	85,779	
Fotal Change in Connected Load	8.75	
Annual Estimated Cost Savings	\$8,577.90	
Annual Operating Hours	8,760	
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nterior Lighting Incentive @ 60.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$4,208.00	
Exterior Lighting Incentive @ 60.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00	
Fotal retrofit CFL Incentive @ S1/screw-in CFL lamp; \$15/hard- vired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00	
Fotal retrofit LED Exit Incentive @ 610/exit sign	\$110.00	
Fotal Lighting Controls Incentive @ 625/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00	
		1
Total Calculated Incentive	\$4,318.00	
otal Fixture Quantity excluding retrofit	000	
FLs and LED Exit Sign	203	
otal Lamp Quantity for retrofit Screw-In	0	
otal Lamp Quantity for retrofit Hard-Wired	0	
otal Fixture Quantity for retrofit LED Exit	11	
otal Quantity for Occupancy Sensors	0	
otal Quantity for Daylight Sensors	0	

Demand Savings (For Internal Use Only)	11.71	

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Line Building Address Floor Item	r Area Description	PROJECT E Interior or Exterior Fixture	ASIC INFORMATION Predominant Space Type	Area Cooling	Pre Foture Oty	PRE-I Pre Fixture Code	NSTALLATION Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Existing Control Sensor I Quantity When existence	Post Post Fixture Code Fixture Oty	POST-INSTA Post Watts/ Fixture (W)	Post kW / Space (kW)	Proposed Control Pisase erter DAVLTG, OCC or NONE.	Proposed I Sensor Quantity	Interior Change in Connected Load	Exterior Change in Connected Load (kW) (kV)	ge in Applicant coincidenc ad Factor V) (CF)	Coincidence Factor	Interactive In Factor (demand)	En Interactive Pre Factor Controls (energy) Factor	Post Interior Controls Demand Factor Savings	Exterior Demand Savings	Demand Appli Savings Equiv (kW) Full L	cant Prescribed alent Equivalent .oad Full Load	Annual Annual Interior Exterior Fixture kWh Fixture kWh	Annual kWh Annual Saved Sav 1 (CFL or LED (Send	Post al kWh Fixture Cu ved Sheet nsors Number
									When applicable				NUNE.	When applicable	(KW) excluding CFLs or Exit Signs	Load (kW) (ki actuding CFLs or Exit Signs exit :	V) (CF) r LED Estimate sign				(KW) excluding CFLs or Exit Signs	(kW) excluding CFLs or Exit Signs	CFLs or Hou LED Exit (EFI Signs Estin	rrs Hours LH) nate	Saved Saved (excluding CFLs or Exit Signs) CFLs or Exit Signs)	exit signs onl only) t	w
e.g. 400 North Street 2 e.g. Example 1	Office Restaurant		Otfice - Small Restaurant - Fast Food		3 5				NONE OCC 5							0.13	7 84% 88%	84% 88%	34% 34%	12% 30%	30% 50%		0.19 2,8			646 19 26	14 1 60 1A
2 1 3 1 4 1 5 1	Office Office Office Office	Interior Interior Interior Interior Exterior	Mandacturing - Light Industrial Manufacturing - Light Industrial Manufacturing - Light Industrial Manufacturing - Light Industrial Manufacturing - Light Industrial	Cooled Space Cooled Space Unccoled space Unccoled space Unccoled space	6 23 10 1	F46SS MH40011 F82SS H100011	282 458 173 1,000	1.69 10.53 1.73 1.00	NONE NONE NONE NONE	67 F42ILL 13 F44ILL 18 F46ILL 2 F82ILL 1 HP8150/1	112 175 109 188	1.46 3.15 0.22 0.19	NONE NONE NONE NONE		0.24 7.38 1.51	0.81		63% 63% 63% 63%	34%	12%	0.20 4.65 0.35	0.51		5.913 5.913 5.913 5.913 5.913	1,563 43,662 8,940 4,801		
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Containing Protections	Floor Area Description	Interior or Exterior Fixture	Predominant Space Type	Area Cooling	Pre Fixture Pre Fixture Code Qty			ting Existing Post Post Fixture Code trol Sensor Fixture	Post Watts/ Fixture (W)	Post kW / P	oposed Proposed	Interior Change Exterior Change i		oincidence Interactiv Factor Factor	Factor (energy)	Pre Post Controls Controls Factor Factor	Interior Ex Demand De	terior Dem	and Applicant	Prescribed A	nnual Ann terior Exte	ual Annual kW rior Saved	Wh Annual kV Saved
		T LA GAL			uly .	Fixture Spa (W) (kW	ice Cont () drop d	trol Sensor Fixture down Quantity Qty	(W)	Space (kW)	Control Sensor NONE. Control Sensor Guantity When applicat	in Connected Load Connected Load (kW) excluding Load (kW) CFLs or Exit Signs or Exit Signs exit sign	Factor	Factor Factor (demand	(energy)	Factor Factor	Savings Sa (kW) ( excluding exc CFLs or CF Exit Signs Exit	vings (kV	W) Full Load	Full Load Fixt	are kWh Fixture		LED (Sensors ns only)
								When applicable			NONE. When applicab	(kW) excluding Load (kW) (kW)	Factor (CF) ED Estimate				(kW) (	kW) CFL	s or Hours Exit (EFLH) gns Estimate	Hours S	are kWh Fixture laved Sav cluding (exclu s or Exit CFLs of	e kWh (CFL or LE exit signs using only)	is centy)
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Project Estimate Savings Sum		
Estimated Annual kWh Savings	67,648	
Fotal Change in Connected Load	11.25	
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Annual Estimated Cost Savings	\$6,764.80	
Annual Operating Hours	5,913	
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nterior Lighting Incentive @ 60.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$3,142.35	
Exterior Lighting Incentive @ 0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$240.05	
Fotal retrofit CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard- vired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00	
Fotal retrofit LED Exit Incentive @ \$10/exit sign	\$0.00	-
Fotal Lighting Controls Incentive @ \$25/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00	
		3
Total Calculated Incentive	\$3,382.40	
Total Fixture Quantity excluding retrofit	101	
CFLs and LED Exit Sign Total Lamp Quantity for retrofit Screw-In	101	
CFLs	0	
Total Lamp Quantity for retrofit Hard-Wired CFLs	0	
Total Fixture Quantity for retrofit LED Exit	0	
Signs Total Quantity for Occupancy Sensors	0	
Fotal Quantity for Daylight Sensors	0	

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Line Building Address Floor Bern	Area Description	PROJECT B Interior or Exterior Fixture	ASIC INFORMATION Predominant Space Type	Area Cooling	PRE-IN Pre Fixture Code Qty	STALLATION Pre Watts / Pre kW / Fixture Space (W) (kW)	Existing E Control : drop.down C	bisting Bensor Juantity n spptcable	Post Fixture Code	POST-INSTALLATION Post Watts/ Post KW / Fixture Space (W) (kW)	Proposed Control Pieses erter DAVLTG, OCC or NONE.	Proposed Sensor Quantity When applicable (kW) excludin CFLs or Exit Signs	e Exterior Change in Connected g Load (kW) excluding CFLs ( or Exit Signs	Change in Applicant Connected Coincidence Load Factor (kW) (CF) FL or LED Estimate exit sign	Coincidence Interacti Factor Factor (deman	re Interactive Pre Factor Controls (energy) Factor	Post Interior Controls Demand Factor Savings (kW) excluding CFLs or Exit Signs	Exterior Demand Savings (kW) excluding CFLs or Exit Signs	Demand Applicant Savings Equivalent (kW) Ful Load CPLs or Hours LED Exit (EFLH) Signs Estimate	Prescribed Annual Equivalent Interior Full Load Fixture kW Hours Gaved (excluding CFLs or Eni Signa)	Annual An Exterior Fixture kWh (Ci Saved e (excluding t CFLs or Exit Signs)	tual kWh Annual kW Saved Saved L or LED (Sensors ch signs only) only)	Post Wh Fixture Cut Sheet s Number
e.g. 400 North Street 2 e.g. Example 1 1 1	Service Bay	Interior Exterior Interior	Ottice - Small Restaurant - Fast Food Manufacturing - Light Industrial		3 544LL 5 Example Cut Sheet 1 120 MH400/1	112 0.34 50 0.25 458 54.98				58 0.17 25 0.13 175 21.00			0.13	0.17 84% 88%	84% 34% 88%	12% 30%	30% 50% 21.39		0.19 2,808 8,760	3,435 4,158 5,913 200,805		646 194 260	1 1A
2 1 3 1 4 1 5 1 8	Mezzanine Office Office Office	Interior Interior Interior Interior Interior	Manufacturing - Light Industrial Manufacturing - Light Industrial Manufacturing - Light Industrial Manufacturing - Light Industrial Manufacturing - Light Industrial	Unccolled space Coolled Space Unccolled space Coolled Space	120 MH40011 27 HPS40011 151 F4255 4 F8255 45 F4455	465 12.56 94 14.19 173 0.69 188 8.46	NONE NONE NONE NONE	27 151 4 45	F46ILL Cut Sheet 1 F42ILL F82ILL F44ILL	26 0.70 59 8.91 109 0.44 112 5.04	NONE NONE NONE NONE	11.85 5.29 0.28 3.42			63% 63% 34% 63% 34%		7.47 4.46 0.16 2.89			5,913 70,087 5,913 35,000 5,913 1,514 5,913 22,649			
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Project Estimate Savings Sum		
stimated Annual kWh Savings	330,055	
otal Change in Connected Load	54.77	
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nnual Estimated Cost Savings	\$33,005.50	
nnual Operating Hours	5,913	
nterior Lighting Incentive @ 0.05/kWh (excluding retrofit CFLs, ensors, or LED exit signs)	\$16,502.75	
xterior Lighting Incentive @ 0.05/kWh (excluding retrofit CFLs, ensors, or LED exit signs)	\$0.00	
otal retrofit CFL Incentive @ 1/screw-in CFL lamp; \$15/hard- rired CFL lamp (includes all retrofit FLs, both interior and exterior)	\$0.00	
otal retrofit LED Exit Incentive @ 10/exit sign	\$0.00	-
otal Lighting Controls Incentive @ 25/sensor (includes all Lighting controls, both interior and exterior)	\$0.00	
		-
otal Calculated Incentive	\$16,502.75	
otal Fixture Quantity excluding retrofit		
FLs and LED Exit Sign	347	
otal Lamp Quantity for retrofit Screw-In FLs	0	
otal Lamp Quantity for retrofit Hard-Wired FLs	0	
otal Fixture Quantity for retrofit LED Exit	0	
igns otal Quantity for Occupancy Sensors	0	
otal Quantity for Daylight Sensors	0	

Demand Savings (For Internal Use Only)	36.37	

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e Building Address	Floor Area Description	Interior or Exterior Fixture	Predominant Space Type	Area Cooling	Pre Fixture Pre Fixture Code Qty	Pre Watts / Pre kW / Fixture Space (W) (kW)	Existing Existing Post Post Fixture Code Control Sensor Fixture	Post Watts/ Fixture (W)	Post kW /	Proposed	Proposed Interio	Change Exterior	Change in	Applicant	Coincidence Factor	Interactive Factor (demand)	Interactive P Factor Con (energy) Fa	e Post rols Control tor Factor	Interior Exterio	or Demand	Applicant	Prescribed	Annual	Annual Exterior	Annual kWh Saved Saved
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Project Estimated Savings Sum		
Estimated Annual kWh Savings	81,295	
Total Change in Connected Load	12.40	
Annual Estimated Cost Savings	\$8,129.50	
Annual Operating Hours	6,482	
Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$4,018.75	
Exterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00	
Total retrofit CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard- wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00	
Total retrofit LED Exit Incentive @ \$10/exit sign	\$70.00	
Total Lighting Controls Incentive @ \$25/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00	
Total Calculated Incentive	\$4,088.75	
Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	93	
Total Lamp Quantity for retrofit Screw-In	0	
CFLs Total Lamp Quantity for retrofit Hard-Wired	0	
CFLs Total Fixture Quantity for retrofit LED Exit	7	
Signs	-	
Total Quantity for Occupancy Sensors Total Quantity for Daylight Sensors	0	

Demand Savings (For Internal Use Dnly)	10.18	]

### PERFORMANCE CONTRACT

PARTIES: JOHNSON CONTROLS, INC. (JCI) 9797 Midwest Avenue Cleveland, Ohio 44125

City of Lakewood HB300 Performance Contract

City of Lakewood (Customer) 12650 Detroit Avenue (Address) Lakewood, Ohio 44107

**AGREEMENT DOCUMENTS:** In addition to the terms and conditions of this Performance Contract, incorporated into this Agreement are the following (check as applicable).

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Schedule 1--Scope of Work Schedule

Schedule 2--Assured Performance Guarantee Schedule

Schedule 3--Services Schedule

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Schedule 4-Price and Payment Terms Schedule

**SCOPE OF THE AGREEMENT.** JCI agrees to install identifiable improvement measures as delineated in Scope of Work Schedule (Schedule 1) which will result in Project Benefits as set forth in the Assured Performance Guarantee (Schedule 2). After installation of the improvement measures, JCI agrees to provide the services identified in Services Schedule (Schedule 3), that include services that are necessary to monitor, measure, and achieve the identified Project Benefits, subject to the terms of the Assured Performance Guarantee (Schedule 2). The Customer agrees to take all actions identified in this Agreement that are necessary to achieve the Project Benefits identified. JCI shall supervise and direct the Work and Services and shall be solely responsible for all construction means, methods, techniques, sequences, and procedures and for coordinating all portions of the Work and Services under this Agreement. JCI shall be responsible to pay for all labor, materials, equipment, tools, construction equipment and machinery, transportation, and other facilities and services necessary for the proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work and Services. The Customer's payments to JCI and its interest in the Equipment will be based upon the terms of Schedule 4.

**TERM.** The Term of this Agreement shall begin on the Commencement Date, which shall be **May 20, 2008** or, if no date is included, the date of this Agreement. If the Work is divided into phases or individual projects for which individual prices have been negotiated, then separate Commencement Dates shall apply to each phase or individual project. The Work shall be completed by the Substantial Completion Date, which shall be the earlier of:

the date on which the Customer executes a Certificate of Substantial Completion; or

245 days after the Commencement Date, subject to adjustments as set forth in Paragraph 3 below.

If the Work is divided into phases or individual projects for which individual prices have been negotiated, then separate Substantial Completion Dates shall apply to each phase or individual project. Substantial Completion means that JCI has provided sufficient materials and services to permit the Customer to operate the Equipment or achieve the intended Project Benefits. The Services shall commence on the Substantial Completion Date and shall continue for 120 months. The term of the Assured Performance Guarantee (see Schedule 2) shall coincide with the term of the Services Schedule (see Schedule 3). If for any reason, the Customer cancels or breaches this Agreement, including but not limited to the Service Schedule, the Assured Performance Guarantee shall automatically terminate. The Payment Term shall be defined in Price and Payment Term Schedule (Schedule 4).

**DELAYS.** If JCI is delayed in the commencement or completion of the Work and/or Services by causes beyond its control and without its fault or negligence, including but not limited to inability to access property, fire, flood, labor disputes, unusual delays in deliveries, abnormal adverse weather conditions, acts of God, acts of war and acts of terrorism or by failure by the Customer to perform its obligations under the Performance Contract and Schedules or failure by the Customer to cooperate with JCI in the timely completion of the Work, then JCI shall provide written notice to the Customer of the existence, extent of, and reason for such delays. An equitable adjustment in Substantial Completion Date, Payment Terms and Assured Performance Guarantee shall be made as a result.

ACCESS. Customer is responsible to provide JCI, its subcontractors and/or its agents reasonable and safe access to all facilities and properties that are in the Customer's control which are subject to the Work and Services contained in this Agreement. Customer

further agrees to assist JCI, its subcontractors and/or its agents to gain access to facilities and properties that are not controlled by the Customer which are subject to the Work and Services contained in this Agreement. An equitable adjustment in Substantial Completion Date, Payment Terms and Assured Performance Guarantee shall be made as a result of any failure to grant such access. **CERTIFICATE OF SUBSTANTIAL COMPLETION.** The Certificate of Substantial Completion to be executed by the Customer shall include:

a. an acknowledgement by the Customer of the buildings or Improvement Measures substantially completed and the Substantial Completion Date for each building or Improvement Measure;

b. an acknowledgment by the Customer of receipt of manuals and training provided by JCI under the Agreement;

- c. an acknowledgement by the Customer of the warranty start date and warranty period;
- d. a punchlist of items remaining to be completed by JCI and,
- e. an acknowledgement by the Customer that

(i) changes of fire or alarm control points may significantly alter a life safety system, and contribute to a dangerous or life-threatening situation.

(ii) changes to fire or alarm points may also require approval of local fire authority; changes to other control points may be linked to the life safety system and affect it; and after each such change, the life safety system should be exercised to see that its integrity has not been violated and it functions properly, as was intended.

(iii) JCI does not warrant against system malfunction caused by improper use, misuse or wrong entry of data by the customer, and JCI shall not be liable for situations or damages that are the direct result of user-generated databases.

TAXES, PERMITS, AND FEES. JCI shall be responsible for obtaining all permits and related permit fees associated with the Work and Services. JCI shall pay sales, consumer, use, and other similar taxes and shall secure and pay for the building permit and other permits and governmental fees, licenses, and inspections necessary for proper execution. The Customer shall be responsible for securing any necessary approvals, easements, assessments, or zoning changes and shall be responsible for real estate and personal property taxes where applicable. JCI makes no representations regarding the tax implications or Customer's accounting treatment of this Agreement.

WARRANTY. JCI warrants that materials and equipment furnished by JCI will be of good quality and new; that the Work will be free from defects not inherent in the quality required or permitted; and that the Work and Services will conform to the requirements of the Agreement Documents. JCI warrants that the Work shall be free from defects in material and workmanship arising from normal usage for a period of one year from the Substantial Completion Date and that its Services will be free from defects in workmanship, design, and material until the end of the Term, or for one year, whichever is earlier. Upon written notice from the Customer, JCI shall, at its option, repair or replace the defective Work or re-perform defective Services. These warranties do not extend to any Work or Services that have been abused, altered, misused, or repaired by the Customer or third parties without the supervision of and prior written approval of JCI; or if JCI serial numbers or warranty date decals have been removed or altered. The Customer must promptly report any failure of the Equipment to JCI in writing. All replaced Equipment or parts become JCI's property.

## THESE WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THOSE OF MERCHANTABILITY AND FITNESS FOR A SPECIFIC PURPOSE.

Customer understands that JCI is a provider of services under this Agreement. JCI shall not be considered a merchant or a vendor of goods. If JCI installs or furnishes a piece of equipment under this Agreement, and that equipment is covered by a warranty from the manufacturer, JCI will transfer the benefits of that manufacturer's warranty to Customer if this Agreement with Customer terminates before the equipment manufacturer's warranty expires.

7. **CLEANUP.** JCI shall keep the premises and the surrounding area free from accumulation of waste materials or rubbish caused by the Work and, upon completion of the Work, JCI shall remove all waste materials, rubbish, tools, construction equipment, machinery, and surplus materials.

8. SAFETY. JCI shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Work or Services. JCI shall comply with all applicable laws, ordinances, rules, regulations, and lawful orders of public authorities related to safety of persons or property.

HAZARDOUS MATERIALS. Unless specifically noted in Schedule 1, JCI's obligations expressly exclude any Work or Services of any nature associated or connected with the identification, abatement, cleanup, control, removal, or disposal of hazardous materials or substances, including but not limited to asbestos, lead or PCBs, in or on the premises in which JCI will be required to perform Work. The Customer warrants and represents that, to the best of the Customer's knowledge, there is no asbestos or other hazardous materials in the Customer's building(s) or other premises in which JCI will be required to perform Work that will in any way affect JCI's Work. Should JCI become aware of or suspect the presence of asbestos or other hazardous materials, JCI shall have the right to stop work in the affected area immediately and notify the Customer. The Customer will be responsible for doing whatever is necessary to correct the condition in accordance with all applicable statutes and regulations. The Customer agrees to assume responsibility for any claims arising out of or relating to the presence of asbestos or other hazardous materials in the Customer's buildings or any premises in which JCI will be required to perform Work.

**INSURANCE.** Prior to commencing the Work, JCI shall provide a certificate of insurance with Contractor showing its insurance coverage's, and JCI shall maintain such insurance in full force and effect at all times until the Work and Services have been completed, in the following minimum amounts:

	COVERAGES	LIMITS OF LIABILITY
Workmen's Compensation In including Employer		Statutory
Comprehensive General Liability Insurance, including	g Contractual.	\$5,000,000 One Occurrence \$5,000,000 Each Aggregate
Comprehensive Automobile Insurance	Liability	\$5,000,000 Combined Single Limit

The above limits are obtained through primary and excess policies.

The Customer shall be responsible for obtaining any builder's risk insurance and shall assume full responsibility for any risk of loss to the Work.

11. INDEMNITY. The Customer assumes all risk and liability for the use, operation, and storage of the Equipment, and for injuries or death to persons or damage to property arising out of the use, operation, or storage of the Equipment, except for any injuries or death to persons or damage to property caused by the negligence of JCI, it employees, agents or assigns. The Customer shall indemnify and hold harmless JCI, its employees, agents, and assigns from and against all claims, actions, damages, liabilities, and expenses, including attorney's fees, arising out of or related to this Agreement, except for injuries or death to persons or damage to property caused by the negligence of assigns.

JCI shall indemnify and hold harmless the Customer, its employees, agents, and assigns against all claims, actions, damages, liabilities, and expenses, including attorney's fees, arising out of or related to any claims of patent infringement and any claims of construction or materialman's lien made by any subcontractor or materialman. JCI and the Customer agree that JCI shall be responsible only for such injury, loss, or damage caused by the intentional misconduct or the negligence act or omission of JCI. The obligations of JCI and of the Customer under this paragraph are further subject to paragraph 12 below.

LIABILITY AND FORCE MAJEURE. JCI shall not be liable under this Agreement in an amount in excess of its primary general comprehensive policy limits. Neither JCI nor the Customer will be responsible to the other for any special, indirect, or consequential damages arising in any manner from the Work or Services. Neither party will be responsible to the other for damages, loss, injury, or delay caused by conditions that are beyond the reasonable control, and without the intentional misconduct or negligence, of that party. Such conditions include, but are not limited to: acts of God; acts of Government agencies; strikes; labor disputes; fire; explosions or other casualties; thefts; vandalism; riots or war; acts of terrorism; or unavailability of parts, materials or supplies. If this Agreement covers fire safety or security equipment, the Customer understands that JCI is not an insurer regarding those services. JCI shall not be responsible for any damage or loss that may result from fire safety or security equipment that fails to perform properly or fails to prevent a casualty loss. JCI is also not responsible for any injury, loss, or damage caused by equipment that is not Covered Equipment, as defined in Schedule 3.

**JCI'S PROPERTY.** All materials furnished by and used by JCI personnel and/or JCI authorized subcontractors or agents at the installation site, including documentation, schematics, test equipment, software, and associated media remain the exclusive property of JCI. The Customer agrees not to use such materials for any purpose at any time. The Customer agrees to allow JCI personnel and/or JCI authorized subcontractors or agents to retrieve and to remove all such materials remaining after installation or maintenance operations have been completed. The Customer acknowledges that all JCI software included is proprietary and will be delivered only under the provisions of an appropriate Software License Agreement that will limit its use to the system purchased under this Agreement.

**DISPUTES.** If a dispute arises under this Agreement, the parties shall promptly attempt in good faith to resolve the dispute by negotiation. All disputes not resolved by negotiation shall be resolved in accordance with the Commercial Rules of the American Arbitration Association in effect at that time, except as modified herein. All disputes shall be decided by a single arbitrator. A decision shall be rendered by the arbitrator no later than nine months after the demand for arbitration is filed, and the arbitrator shall state in writing the factual and legal basis for the award. No discovery shall be permitted. The arbitrator shall issue a scheduling order that shall not be modified except by the mutual agreement of the parties. Judgment may be entered upon the award in the highest state or federal court having jurisdiction over the matter. The prevailing party shall recover all costs, including attorney's fees, incurred as a result of the dispute. If the Customer is a state or local governmental entity, then this paragraph may not apply.

**MODIFICATIONS.** Additions, deletions, and modifications to this Agreement may be made upon the mutual agreement of the parties in writing. The parties contemplate that such modifications may include but are not limited to the installation of additional improvement measures, energy conservation measures, facility improvement measures, and operational efficiency improvements or furnishing of additional services within the identified facilities, as well as other facilities owned or operated by the Customer. These modifications may take the form of additional phases of work or modifications to the original scope of Work or Services. **NOTICES.** All notices or communications related to this Agreement shall be in writing and shall be deemed served if and when sent by facsimile or mailed by certified or registered mail to JCI at the address listed on page 1 of this Performance Contract and to JCI, ATTN: General Counsel - Controls, 507 East Michigan Street, Milwaukee, Wisconsin, 53202, and to Customer at the address listed on

### page 1 of this Performance Contract. 17. ADDITIONAL TERMS.

A. Any failure of JCI to require strict performance by the Customer, or any waiver by JCI of any requirement under this Agreement, does not consent to or waive any subsequent failure or breach by the Customer.

B. If any provision of this Agreement is invalid under any applicable law, that provision shall not apply, but the remaining provisions shall apply as written.

C. The captions and titles in this Agreement are for convenience only and shall not affect the interpretation or meaning of this Agreement.

D. This Agreement is the full Agreement between JCI and the Customer as of the date it is signed. All previous conversations, correspondence, agreements, or representations related to this Agreement (including any Project Development Agreement) are not part of the Agreement between JCI and the Customer and are superceded by this Agreement.

E. This Agreement shall be construed in accordance with the laws of the state of the principal place of Business of the Customer at the time of the execution of this Agreement.

F. If there is more than one Customer named in this Agreement, the liability of each shall be joint and several.

## NOTICE JCI MAKES NO WARRANTIES AS TO THE EQUIPMENT EXCEPT AS SET FORTH ABOVE.

Dated , 2005 (20)

CUSTOMER:

Signature: Printed Name: Ed Forz Gerald Title: Mayor of Schedule 1

SCOPE OF WORK SCHEDULE

JOHN Signature Printed Name: Title:

1. SUMMARY OF WORK: The following summarizes the Work to be provided by JCI under this Agreement, as further defined below:

Scope Of Work Summary:	
Lighting Retrofits	
Building Envelope Improvements	
Building Automation Systems Installation	
Winterhurst Rooftop Unit Replacements	
City Hall Chiller Replacement & HVAC Upgrades	
Office on Aging – West HVAC Replacements	
Traffic / Signs Shop HVAC Replacements	

## Infrastructure Improvement Measure #1

# **Lighting Retrofits**

Provide all labor and materials for a turn-key lighting retrofit throughout the City as described in the following tables.

# <u>City Hall</u>

ltem	Room	Old	Existing Fixture	New	New Fixture
No.	Description	Qty	Description	Qty	Description
1	Bsmt - Microfilm A	3	2x4 Rec'd Troffer (4) F40T12 Lamps	3	Reballast (4) 4ft T8 Lamps
2	Bsmt - Microfilm B	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
3	Bsmt - Building Dept. A	30	2x4 Rec'd Troffer (4) F40T12 Lamps	30	Reballast (4) 4ft T8 Lamps
4	Bsmt - Building Dept. A	2	2x4 Modular Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
5	Bsmt - Building Dept. A	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
6	Bsmt - Building Dept. B	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
7	Bsmt - Building Dept. C	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
8	Bsmt - Building Dept. D	2	8ft Strip (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
9	Bsmt - Building Dept. E	3	2x4 Rec'd Troffer (4) F40T12 Lamps	3	Reballast (4) 4ft T8 Lamps
10	Bsmt - Building Dept. E	1	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	1	Reballast (2) U6 T8 Lamps
11	Bsmt - Building Dept. F	5	2x4 Rec'd Troffer (4) F40T12 Lamps	5	Reballast (4) 4ft T8 Lamps
12	Bsmt - Building Dept. G	3	2x4 Rec'd Troffer (4) F40T12 Lamps	3	Reballast (4) 4ft T8 Lamps
13	Bsmt - Building Dept. H	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
14	Bsmt - Building Dept. H	1	8ft Wrap Around (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
15	Bsmt - Planning/Development A	3	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	3	Reballast (2) U6 T8 Lamps
16	Bsmt - A	8	2x4 Rec'd Troffer (4) F40T12 Lamps	8	Reballast (4) 4ft T8 Lamps
17	Bsmt - B	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
18	Bsmt - C	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
19	Bsmt - D	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
20	Bsmt - E	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
21	Bsmt - F	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
22	Bsmt - Telephone Equip. Room		No Change		
23	Bsmt - Mens R.R.	2	4ft Wrap Around (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
24	Bsmt - Mop Closet	1	Vapor Tight (1) 60w Lamp	1	Replace with (1) 13w Spring Lamp
25	Bsmt - Women's R.R.	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
26	Bsmt - Women's R.R.	1	Vapor Tight (1) 60w Lamp	1	Replace with (1) 13w Spring Lamp
27	Bsmt - Basement Hall	21	4ft Wrap Around (4) F40T12 Lamps	21	Reballast (4) 4ft T8 Lamps
28	Bsmt - Mop Closet (By Police Dept)	1	Vapor Tight (1) 60w Lamp	1	Replace with (1) 13w Spring Lamp
29	Bsmt - Garage	10	4ft Vaportite (2) F40T12 Lamps	10	Reballast (2) 4ft T8 Lamps
30	Bsmt - Garage	10	Industrial (1) 100w Lamp	10	Replace with (1) 26w Spring Lamp
31	Bsmt - Storage Garage	3	4ft Vaportite (2) F40T12 Lamps	3	Reballast (2) 4ft T8 Lamps
32	Bsmt - Storage Garage	1	Industrial (1) 100w Lamp	1	Replace with (1) 26w Spring Lamp
33	Bsmt - Boiler Room	1	2ft Strip (2) F20T12 Lamps	1	Reballast (2) 2ft T8 Lamps
34	Bsmt - Boiler Room	15	Industrial (1) 100w Lamp	15	Replace with (1) 26w Spring Lamp
35	Bsmt - Boiler Room	1	8ft Wrap Around (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
36	Bsmt - Maint. Office	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
37	Bsmt - Maint. Office	1	8ft Wrap Around (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
38	2nd - Mayors Office Sect'Y	4	8ft Wrap Around (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
39	2nd - Mayors Office Sect'Y	6	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	6	Reballast (2) U6 T8 Lamps
40	2nd - Mayors Office Sect'Y	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
41	2nd - Conference Room	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
42	2nd - Mayor Asst. Office	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps

	2nd - Mayor Office		No Change		
	2nd - Human Resource		2x2 Rec'd Troffer (2) F40T12/U6 Lamps		Reballast (2) U6 T8 Lamps
	2nd - Human Resource		2x4 Rec'd Troffer (4) F40T12 Lamps		Reballast (4) 4ft T8 Lamps
1	2nd - Human Res. Back Office		2x4 Rec'd Troffer (4) F40T12 Lamps		Reballast (4) 4ft T8 Lamps
	2nd - Finance Dept. A		2x4 Rec'd Troffer (4) F40T12 Lamps		Reballast (4) 4ft T8 Lamps
48	2nd - Finance Dept. B	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
49	2nd - Finance Dept. C	2	4ft Wrap Around (4) F40T12 Lamps		Reballast (4) 4ft T8 Lamps
50	2nd - Director Of Finance A	2	1x4 Rec'd Troffer (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
51	2nd - Director Of Finance A	1	1x4 Rec'd Troffer (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
52	2nd - Director Of Finance A	3	4ft Wrap Around (2) F40T12 Lamps	3	Reballast (2) 4ft T8 Lamps
53	2nd - Director Of Finance B	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
54	2nd - Director Of Finance C		No Change		
55	2nd - Law Department A	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
56	2nd - Law Department A	4	1x4 Rec'd Troffer (1) F40T12 Lamp	4	Reballast (1) 4ft T8 Lamp
57	2nd - Law Department A	1	1x4 Rec'd Troffer (1) F40T12 Lamp	1	Reballast (1) 4ft T8 Lamp
58	2nd - Law Department B	1	2x4 Rec'd Troffer (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
59	2nd - Law Department B	2	1x4 Rec'd Troffer (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lam ps
60	2nd - Law Department C	1	2x4 Rec'd Troffer (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
61	2nd - Law Department D	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
62	2nd - Law Department E	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
63	2nd - Law Department F	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
64	2nd - Law Department G	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
	2nd - Law Department H	5	2x4 Rec'd Troffer (4) F40T12 Lamps	5	Reballast (4) 4ft T8 Lamps
	2nd - Law Department H	1	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	1	Reballast (2) U6 T8 Lamps
	2nd - Law Department H	2	1x4 Rec'd Troffer (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
	2nd - Law Library	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
	2nd - Copy Room	3	2x4 Rec'd Troffer (4) F40T12 Lamps	3	Reballast (4) 4ft T8 Lamps
	2nd - Data Process. A	11	2x4 Rec'd Troffer (4) F40T12 Lamps	11	Reballast (4) 4ft T8 Lamps
	2nd - Data Process. B	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
	2nd - Data Process. C	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
	2nd - Data Process. D	5	2x4 Rec'd Troffer (4) F40T12 Lamps	5	Reballast (4) 4ft T8 Lamps
	2nd - Data Process. E	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
	2nd - Law Dept. A		2x4 Rec'd Troffer (4) F40T12 Lamps	3	Reballast (4) 4ft T8 Lamps
	2nd - Law Dept. B	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
	2nd - Law Dept. C	3	2x4 Rec'd Troffer (4) F40T12 Lamps	3	Reballast (4) 4ft T8 Lamps
	2nd - Engineering A	8	2x4 Rec'd Troffer (4) F40T12 Lamps	8	Reballast (4) 4ft T8 Lamps
	2nd - Engineering A	3	4ft Wrap Around (4) F40T12 Lamps	3	Reballast (4) 4ft T8 Lamps
	2nd - Engineering B	4	2x4 Rec'd Troffer (4) F40T12 Lamps		Reballast (4) 4ft T8 Lamps
	2nd - Engineering C		2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
	2nd - Engineering D				
		15	2x4 Rec'd Troffer (4) F40T12 Lamps	15	Reballast (4) 4ft T8 Lamps
	2nd - Engineering D		1x4 Rec'd Troffer (2) F40T12 Lamps	3	Reballast (2) 4ft T8 Lamps
	2nd - Engineering E	3	2x4 Rec'd Troffer (4) F40T12 Lamps	3	Reballast (4) 4ft T8 Lamps
	2nd - Engineering F	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
	2nd - Engineering G	8	1x4 Rec'd Troffer (2) F40T12 Lamps	8	Reballast (2) 4ft T8 Lamps
	2nd - Engineering H	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
88	2nd - Public Works A	9	2x4 Rec'd Troffer (4) F40T12 Lamps	9	Reballast (4) 4ft T8 Lamps
	2nd - Public Works A		2x2 Rec'd Troffer (2) F40T12/U6 Lamps		Reballast (2) U6 T8 Lamps
90	2nd - Public Works B	2	2x2 Rec'd Troffer (2) F40T12/U6 Lamps		Reballast (2) U6 T8 Lamps
91	2nd - Public Works C	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
92	2nd - Public Works D	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
93	2nd - Public Works E	1	2x4 Rec'd Troffer (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps

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	2nd - Public Works E		2x2 Rec'd Troffer (2) F40T12/U6 Lamps		Reballast (2) U6 T8 Lamps
	2nd - 2Nd Floor Hall	7	2x4 Rec'd Troffer (4) F40T12 Lamps		Reballast (4) 4ft T8 Lamps
96	2nd - Auditorium Hall	3	Exit Sign (2) 20w Lamps		New LED Exit Sign w/BBU
97	2nd - Auditorium	34	2x4 Rec'd Troffer (4) F40T12 Lamps		Reballast (4) 4ft T8 Lamps
98	2nd - Auditorium	3	Exit Sign (2) 20w Lamps	3	New LED Exit Sign w/BBU
99	2nd - Community Development		2x4 Rec'd Troffer (4) F40T12 Lamps	15	Reballast (4) 4ft T8 Lamps
100	2nd - Recycling/Litter	11	1x4 Rec'd Troffer (2) F40T12 Lamps	11	Reballast (2) 4ft T8 Lamps
101	2nd - Closet	2	4ft Wrap Around (1) F32T8 Lamp	2	Reballast (1) 4ft T8 Lamp
102	2nd - Elevator Lobby	2	Exit Sign (2) 20w Lamps	2	New LED Exit Sign w/BBU
103	2nd - Elevator Lobby	2	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	2	Reballast (2) U6 T8 Lamps
104	2nd - Stairs And Other Lobbies	12	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	12	Reballast (2) U6 T8 Lamps
105	2nd - Stairwell Exits	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
106	1st - S.W. Entry Lobby	22	2x4 Rec'd Troffer (4) F40T12 Lamps	22	Reballast (4) 4ft T8 Lamps
107	1st - Desk	12	2x4 Rec'd Troffer (4) F40T12 Lamps	12	Reballast (4) 4ft T8 Lamps
108	1st - Juv. Court Office	6	2x4 Rec'd Troffer (4) F40T12 Lamps	6	Reballast (4) 4ft T8 Lamps
109	1st - Courtroom	30	2x4 Rec'd Troffer (4) F40T12 Lamps	30	Reballast (4) 4ft T8 Lamps
110	1st - Judges Office	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
111	1st - Library	5	2x4 Rec'd Troffer (4) F40T12 Lamps	5	Reballast (4) 4ft T8 Lamps
112	1st - Clerk Of Courts	3	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	3	Reballast (2) U6 T8 Lamps
113	1st - Clerk Of Courts	12	4ft Wrap Around (4) F40T12 Lamps	12	Reballast (4) 4ft T8 Lamps
114	1st - Clerk Of Courts	33	2x4 Rec'd Troffer (4) F40T12 Lamps	33	Reballast (4) 4ft T8 Lamps
115	1st - Judge Carrol Hearing Rm	1	8ft Wrap Around (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
116	1st - Judge Carrol Hearing Rm	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
117	1st - Wom. R.R.		No Change		
118	1st - Clerk/Council Reception	9	2x4 Rec'd Troffer (4) F40T12 Lamps	9	Reballast (4) 4ft T8 Lamps
119	1st - Clerk/Council Reception	1	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	1	Reballast (2) U6 T8 Lamps
120	1st - Probation	14	2x4 Rec'd Troffer (4) F40T12 Lamps	14	Reballast (4) 4ft T8 Lamps
121	1st - Probation	1	2x2 Rec'd Troffer (2) F40T12/U6 Lamps		Reballast (2) U6 T8 Lamps
122	1st - Parking Tickets	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
123	1st - Court Office	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
124	1st - Magistrate Office	4	1x4 Rec'd Troffer (2) F40T12 Lamps	4	Reballast (2) 4ft T8 Lamps
125	1st - Magistrate Office	6	2x4 Rec'd Troffer (4) F40T12 Lamps	6	Reballast (4) 4ft T8 Lamps
126	1st - Human Services	1	2x2 Rec'd Troffer (2) F40T12/U6	1	Reballast (2) U6 T8 Lamps
127	1st - Human Services	3	1x4 Rec'd Troffer (2) F40T12 Lamps	3	Reballast (2) 4ft T8 Lamps
128	1st - Human Services	1	4ft Wrap Around (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
120	1st - Human Services	6	2x4 Rec'd Troffer (4) F40T12 Lamps	6	Reballast (4) 4ft T8 Lamps
129	1st - Jury Room	4	8ft Industrial (2) F96T12 Lamps	4	8ft Reflector (2) 4ft T8 Lamps
130	1st - Jury Room	4	Rec'd Can (1) 75w Lamp	4	Replace with (1) 13w Spring Lamp
131	1st - Mens R.R.	2	4ft Wrap Around (1) F32T8 Lamp	2	Reballast (1) 4ft T8 Lamp
132	1st - Closet	L	Porcelain Socket (1) 100w Lamp		
	1st - Other Exits		., .	1	Replace with (1) 26w Spring Lamp
134		10	Exit Sign (2) 20w Lamps	10	New LED Exit Sign w/BBU
135	Annex - Div. Of Health - Entry	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
136	Annex - Lobby/Area	14	2x4 Rec'd Troffer (4) F40T12 Lamps	14	Reballast (4) 4ft T8 Lamps
137	Annex - Records Room	2	8ft Wrap Around (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
138	Annex - Environmental Office	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
139	Annex - Nurses Office	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
140	Annex - Exam Room	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
141	Annex - Enviro. Supt. Office	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
142	Annex - Asst. Director Off.	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
143	Annex - Hall To R.R'S	1	2x4 Rec'd Troffer (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
144	Annex - Hall To R.R'S	7	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	7	Reballast (2) U6 T8 Lamps

145	Annex - Hall To R.R'S	4	Exit Sign (2) 20w Lamps	4	New LED Exit Sign w/BBU
146	Annex - Mens R.R.	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
147	Annex - Mop Closet	1	2x4 Rec'd Troffer (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
148	Annex - Women's R.R.	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
149	Annex - Tax/Water Dept. Entry	1	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	1	Reballast (2) U6 T8 Lamps
150	Annex - Tax/Water Lobby	1	2x4 Rec'd Troffer (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
151	Annex - Tax/Water Lobby	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
152	Annex - Behind Counter	18	2x4 Rec'd Troffer (4) F40T12 Lamps	18	Reballast (4) 4ft T8 Lamps
153	Annex - Behind Counter	4	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	4	Reballast (2) U6 T8 Lamps
154	Annex - Behind Counter	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
155	Annex - Water Office	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
156	Annex - Exit Door	1	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	1	Reballast (2) U6 T8 Lamps
157	Annex - Office	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
158	Annex - Office	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
159	Annex - Storage Room	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
160	Annex - Div. Of Health Canopy	2	8ft Strip (2) F96T12HO Lamps	2	8ft Reflector (2) 4ft T8 Lamps
161	Annex - Div. Of Health Canopy	1	4ft Strip (2) F48T12HO Lamps	1	4ft Reflector (1) 4ft T8 Lamp
162	Annex - Income Tax Canopy	1	4ft Strip (2) F48T12HO Lamps	1	4ft Reflector (1) 4ft T8 Lamp
163	Annex - Div. Of Water Canopy	1	4ft Strip (2) F48T12HO Lamps	1	4ft Reflector (1) 4ft T8 Lamp

# Fire Station # 1

ltem	Room	Old	Existing Fixture	New	New Fixture
No.	Description	Qty	Description	Qty	Description
1	Front Desk	4	4ft Strip (2) F40T12 Lamps	4	Reballast (2) 4ft T8 Lamps
2	Main Office	19	2x4 Parabolic Troffer (3) F40T12 Lamps	19	Reballast I/O (3) 4ft T8 Lamps
3	Main Office R.R.	1	4ft Wall Bracket (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
4	Main Office	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
5	Hall	8	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	8	Reballast (2) U6 T8 Lamps
6	Hall	2	2x4 Rec'd Troffer (3) F40T12 Lamps	2	Reballast (3) 4ft T8 Lamps
7	Hall	3	Exit Sign (2) 20w Lamps	3	New LED Exit Sign w/BBU
8	Training Room	1	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	1	Reballast (2) U6 T8 Lamps
9	Training Room	12	2x4 Rec'd Troffer (3) F40T12 Lamps	12	Reballast (3) 4ft T8 Lamps
10	Training Room Storage	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
11	Fitness Rm.	4	4ft Wrap Around (2) F40T12 Lamps	4	Reballast (2) 4ft T8 Lamps
12	Fitness Rm.	2	4ft Wrap Around (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
13	Fitness 2Nd Level	4	4ft Wrap Around (2) F40T12 Lamps	4	Reballast (2) 4ft T8 Lamps
14	Mens R.R.	1	4ft Wall Bracket (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
15	Women's R.R.	1	4ft Wall Bracket (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
16	Kitchen	4	2x4 Rec'd Troffer (3) F40T12 Lamps	4	Reballast (3) 4ft T8 Lamps
17	Kitchen Storage	1	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	1	Reballast (2) U6 T8 Lamps
18	Dining Rm.	6	2x4 Parabolic Troffer (3) F40T12 Lamps	6	Reballast (3) 4ft T8 Lamps
19	Hc Restroom	1	4ft Wall Bracket (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
20	Tv Room	4	2x4 Rec'd Troffer (3) F40T12 Lamps	4	Reballast (3) 4ft T8 Lamps
21	Stairs A	5	4ft Wall Bracket (2) F40T12 Lamps	5	Reballast (2) 4ft T8 Lamps
22	Stairs A	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
23	Basement Ping Pong Rm.	8	4ft Wrap Around (2) F40T12 Lamps	8	Reballast (2) 4ft T8 Lamps
24	Ping Pong Rm.	2	Exit Sign (2) 20w Lamps	2	New LED Exit Sign w/BBU
25	Storage Rm/Air Handler	5	4ft Strip (2) F40T12 Lamps	5	Rebaliast (2) 4ft T8 Lamps
26	Panel Rm.	2	4ft Strip (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps

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27	Eoc	4	4ft Strip (2) F40T12 Lamps	4	Reballast (2) 4ft T8 Lamps
28	Stairs B	5	4ft Wall Bracket (2) F40T12 Lamps	5	Reballast (2) 4ft T8 Lamps
29	Stairs B	2	Exit Sign (2) 20w Lamps	2	New LED Exit Sign w/BBU
30	2Nd Flr. Hall	3	2x4 Rec'd Troffer (3) F40T12 Lamps	3	Reballast (3) 4ft T8 Lamps
31	2Nd Fir. Hall	2	Exit Sign (2) 20w Lamps	2	New LED Exit Sign w/BBU
32	2Nd Fir. Hall	4	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	4	Reballast (2) U6 T8 Lamps
33	Library	2	8ft Strip (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
34	Asst. Chief Office	2	2x4 Rec'd Troffer (3) F40T12 Lamps	2	Reballast (3) 4ft T8 Lamps
35	Asst. Chief Qrtrs.	2	2x4 Rec'd Troffer (3) F40T12 Lamps	2	Reballast (3) 4ft T8 Lamps
36	Storage Room	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
37	Dorm	8	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	8	Reballast (2) U6 T8 Lamps
38	Shower/Locker Rm.	7	4ft Vaportite (2) F40T12 Lamps	7	Reballast (2) 4ft T8 Lamps
39	Över Sink	4	4ft Wall Bracket (2) F40T12 Lamps	4	Reballast (2) 4ft T8 Lamps
40	Over Toilets	3	4ft Strip (2) F40T12 Lamps	3	Reballast (2) 4ft T8 Lamps
41	Hook & Ladder Captain	1	2x4 Rec'd Troffer (3) F40T12 Lamps	1	Reballast (3) 4ft T8 Lamps
42	Engine Captain	1	2x4 Rec'd Troffer (3) F40T12 Lamps	1	Reballast (3) 4ft T8 Lamps
43	Laundry Rm.	1	8ft Wrap Around (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
44	Mop Rm.	1	4ft Vaportite (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
45	Women's R.R.	3	4ft Vaportite (2) F40T12 Lamps	3	Reballast (2) 4ft T8 Lamps
46	Ems Office	3	2x4 Parabolic Troffer (3) F40T12 Lamps	3	Reballast (3) 4ft T8 Lamps
47	Ladder Truck Garage	18	8ft Industrial (4) F32T8 Lamps	18	Reballast (4) 4ft T8 Lamps
48	Ladder Garage Office	2	4ft Wrap Around (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
49	Main Garage	20	8ft Industrial (4) F32T8 Lamps	20	Reballast (4) 4ft T8 Lamps
50	Main Garage	12	4ft Industrial (2) F40T12 Lamps	12	Reballast (2) 4ft T8 Lamps
51	Main Garage	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
52	Main Garage	8	8ft Industrial (4) F32T8 Lamps	8	Reballast (4) 4ft T8 Lamps
53	Main Garage	3	Exit Sign (2) 20w Lamps	3	New LED Exit Sign w/BBU
54	Scba Maint.	1	8ft Wrap Around (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
55	Paint Cabinet	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
56	Equip. Room	6	4ft Wrap Around (2) F40T12 Lamps	6	Reballast (2) 4ft T8 Lamps
57	Equip. Room	1	4ft Vaportite (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
58	Equip. Room	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
59	Shovel Room	1	4ft Vaportite (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
60	Training Tower	6	4ft Vaportite (2) F40T12 Lamps	6	Reballast (2) 4ft T8 Lamps
61	Outbuilding Garage	5	8ft Strip (2) F96T12HO Lamps	5	8ft Reflector (2) 4ft T8 Lamps

# Fire Station # 2

ltem	Room	Old	Existing Fixture	New	New Fixture
No.	Description	Qty	Description	Qty	Description
1	Breakroom	6	2x4 Rec'd Troffer (3) F40T12 Lamps	6	Reballast (3) 4ft T8 Lamps
2	Breakroom	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
3	Back Entry	1	Drum Fixture (2) 60w Lamps	1	Replace with (2) 13w Spring Lamps
4	Back Entry	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
5	Soffit	9	4ft Wall Bracket (1) F40T12 Lamp	9	Reballast (1) 4ft T8 Lamp
6 .	R.R.	1	3ft Wall Bracket (2) F30T12 Lamps	1	Reballast (1) 3ft T8 Lamp
7	Living Room	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
8	Front Entry	1	4ft Wall Bracket (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
9	Front Entry	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
10	Stairs A	6	4ft Wall Bracket (2) F40T12 Lamps	6	Reballast (2) 4ft T8 Lamps

11	Basement Weight Rm.	4	4ft Strip (2) F40T12 Lamps	4	Reballast (2) 4ft T8 Lamps
12	Basement Weight Rm.	2	4ft Wrap Around (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
13	Basement Weight Rm.	2	Porcelain Socket (1) 100w Lamp	2	Replace with (1) 26w Spring Lamp
14	Shower Rm.	1	4ft Strip (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
15	Laundry Rm.	2	4ft Strip (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
16	Stairs B	2	Drum Fixture (2) 60w Lamps	2	Replace with (2) 13w Spring Lamps
17	2Nd Fir. Dorm	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
18	2Nd Fir. Dorm	2	2x4 Rec'd Troffer (3) F40T12 Lamps	2	Reballast (3) 4ft T8 Lamps
19	Hall	1	2x4 Rec'd Troffer (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
20	Office	1	2x4 Rec'd Troffer (3) F40T12 Lamps	1	Reballast (3) 4ft T8 Lamps
21	Closet	1	Porcelain Socket (1) 100w Lamp	1	Replace with (1) 26w Spring Lamp
22	R.R.	2	4ft Wall Bracket (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
23	R.R.	1	Drum Fixture (2) 60w Lamps	1	Replace with (2) 13w Spring Lamps
24	Captain Qrtrs.	1	2x4 Rec'd Troffer (3) F40T12 Lamps	1	Reballast (3) 4ft T8 Lamps
25	Stairs	2	Drum Fixture (2) 60w Lamps	2	Replace with (2) 13w Spring Lamps
26	Garage	10	8ft Vaportite (4) F40T12 Lamps	10	Reballast (4) 4ft T8 Lamps
27	Garage	7	4ft Vaportite (2) F40T12 Lamps	7	Reballast (2) 4ft T8 Lamps
28	Garage	2	Exit Sign (2) 20w Lamps	2	New LED Exit Sign w/BBU
29	Mop Closet	1	4ft Vaportite (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
30	Lawnmower Storage	1	4ft Vaportite (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps

# Fire Station # 3

ltem	Room	Old	Existing Fixture	New	New Fixture
No.	Description	Qty	Description	Qty	Description
1	Front Desk	2	1x4 Rec'd Troffer (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
2	Front Desk	2	Porcelain Socket (1) 60w Lamp	2	Replace with (1) 13w Spring Lamp
3	Hall	7	Drum Fixture (1) 60w Lamp	7	Replace with (1) 13w Spring Lamp
4	Outer Office	3	2x4 Rec'd Troffer (2) F40T12 Lamps	3	Reballast (2) 4ft T8 Lamps
5	Front Entry	1	2x4 Rec'd Troffer (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
6	Captain Room	1	2x4 Rec'd Troffer (4) F32T8 Lamps	1	Reballast (4) 4ft T8 Lamps
7	Cot Room	1	2x4 Rec'd Troffer (4) F32T8 Lamps	1	Reballast (4) 4ft T8 Lamps
8	Dorm	3	2x4 Rec'd Troffer (4) F32T8 Lamps	3	Reballast (4) 4ft T8 Lamps
9	Restroom	1	8ft Wrap Around (4) F32T8 Lamps	1	Reballast (4) 4ft T8 Lamps
10	Restroom	1	4ft Wrap Around (2) F32T8 Lamps	1	Reballast (2) 4ft T8 Lamps
11	Restroom	2	4ft Wall Bracket (1) F32T8 Lamp	2	Reballast (1) 4ft T8 Lamp
12	Shower	3	Rec'd Can (1) 60w Lamp	3	Replace with (1) 13w Spring Lamp
13	Hall	3	Drum Fixture (1) 60w Lamp	3	Replace with (1) 13w Spring Lamp
14	Weight Room	1	2x4 Rec'd Troffer (4) F32T8 Lamps	1	Reballast (4) 4ft T8 Lamps
15	Locker Rms	4	2x4 Rec'd Troffer (4) F32T8 Lamps	4	Reballast (4) 4ft T8 Lamps
16	Storage Closet	1	8ft Wrap Around (4) F40T12 Lamps	1	Replace with (1) 26w Spring Lamp
17	Back Hall	4	Drum Fixture (1) 60w Lamp	4	Replace with (1) 13w Spring Lamp
18	Kitchen	2	2x4 Rec'd Troffer (4) F32T8 Lamps	2	Reballast (4) 4ft T8 Lamps
19	Dining	2	2x4 Rec'd Troffer (4) F32T8 Lamps	2	Reballast (4) 4ft T8 Lamps
20	Kit/Din. Soffit	10	4ft Strip (2) F40T12 Lamps	10	Reballast (2) 4ft T8 Lamps
21	Pop Machine	1	4ft Wrap Around (2) F32T8 Lamps	1	Reballast (2) 4ft T8 Lamps
22	Mop Closet	1	Industrial (1) 100w Lamp	1	Replace with (1) 26w Spring Lamp
23	Restroom	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps

24	Restroom	1	2ft Wall Bracket (2) F20T12 Lamps	1	Reballast (2) 2ft T8 Lamps
25	Garage	21	8ft Strip (2) F96T12HO Lamps	21	8ft Reflector (4) 4ft T8 Lamps
26	Balcony	2	8ft Wrap Around (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
27	Garage Tool Rm.	2	8ft Wrap Around (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
28	Uniform Rm	2	8ft Vaportite (2) F96T12 Lamps	2	New 8ft Vapor tight (2) 4ft T8 Lamps
29	Laundry	2	8ft Wrap Around (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
30	Equip. Storage	2	Industrial (1) 100w Lamp	2	Replace with (1) 26w Spring Lamp
31	Hose Tower	2	8ft Vaportite (2) F96T12 Lamps	2	New 8ft Vapor tight (2) 4ft T8 Lamps

# Animal Shelter

ltem	Room	Old	Existing Fixture	New	New Fixture
No.	Description	Qty	Description	Qty	Description
1	Main Entry	2	2x4 Rec'd Troffer (3) F40T12 Lamps	2	Reballast (3) 4ft T8 Lamps
2	Main Entry	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
3	Hall	2	2x4 Rec'd Troffer (3) F40T12 Lamps	2	Reballast (3) 4ft T8 Lamps
4	Office	1	2x4 Rec'd Troffer (3) F40T12 Lamps	1	3Reballast (3) 4ft T8 Lamps
5	R.R.	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
6	Cat Room	2	4ft Wrap Around (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
7	Furnace Closet	1	4ft Strip (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
8	Washroom	1	8ft Wrap Around (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
9	Doge Cages	2	8ft Wrap Around (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
10	Back Dog Room	4	4ft Wrap Around (2) F40T12 Lamps	4	Reballast (2) 4ft T8 Lamps
11	Kitchen	2	4ft Wrap Around (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
12	Laundry/Shower	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
13	Water Heater Closet	1	Porcelain Socket (1) 100w Lamp	1	Replace with (1) 13w Spring Lamp

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# **Office on Aging**

Item	Room	Old	Existing Fixture	New	New Fixture
No.	Description	Qty	Description	Qty	Description
1	Side Entrance	1	2x2 Rec'd Troffer (2) F32T8/U6 Lamps	1	Reballast (2) U6 T8 Lamps
2	Tv Room	10	2x4 Rec'd Troffer (4) F40T12 Lamps	10	Reballast (4) 4ft T8 Lamps
3	Tv Room	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
4	Closet		No Change		
5	Mens R.R.		No Change		
6	Women's R.R.		No Change		
7	Women's R.R.		No Change		
8	Hall		No Change		
9	Café/Dining	24	2x4 Rec'd Troffer (4) F40T12 Lamps	24	Reballast (4) 4ft T8 Lamps
10	Café/Dining	2	Exit Sign (2) 20w Lamps	2	New LED Exit Sign w/BBU
11	Kitchen	7	8ft Wrap Around (4) F40T12 Lamps	7	Reballast (4) 4ft T8 Lamps
12	Kitchen	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
13	Kitchen	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
14	Kitchen Storage	1	4ft Wrap Around (2) F40T12 Lamps	1	Rebaliast (2) 4ft T8 Lamps
15	Supplies Closet	1	Porcelain Socket (1) 60w Lamp	1	Replace with (1) 13w Spring Lamp
16	Nutrition Office	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
17	Coat Storage	1	Rec'd Can (1) 60w Lamp	1	Replace with (1) 13w Spring Lamp
18	Front Lobby	1	Rec'd Can (1) 60w Lamp	1	Replace with (1) 13w Spring Lamp

19	Front Office 1	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
20	Front Office 2	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
21	Front Office 3	5	2x4 Rec'd Troffer (4) F40T12 Lamps	5	Reballast (4) 4ft T8 Lamps
22	Front Center Entry	1	Drum Fixture (2) 60w Lamps	1	Replace with (2) 13w Spring Lamps
23	Stair Up And 2Nd Hall	5	Drum Fixture (2) 60w Lamps	5	Replace with (2) 13w Spring Lamps
24	Stair Up And 2Nd Hall	1	Rec'd Can (1) 60w Lamp	1	Replace with (1) 13w Spring Lamp
25	Stair Up And 2Nd Hall	2	Exit Sign (2) 20w Lamps	2	New LED Exit Sign w/BBU
26	2Nd Flr Room 1		No Change		
27	Room 2	2	Drum Fixture (2) 60w Lamps	2	Replace with (2) 13w Spring Lamps
28	Room 2	2	4ft Wrap Around (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
29	Room 2	1	4ft Wrap Around (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
30	Room 2	1	Drum Fixture (2) 60w Lamps	1	Replace with (2) 13w Spring Lamps
31	Room 3	1	4ft Wrap Around (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
32	Room 3	1	Porcelain Socket (1) 60w Lamp	1	Replace with (1) 13w Spring Lamp
33	Room 3	1	Drum Fixture (2) 60w Lamps	1	Replace with (2) 13w Spring Lamps
34	Room 4	1	No Change		
35	Back Stairs	2	Drum Fixture (2) 60w Lamps	2	Replace with (2) 13w Spring Lamps
36	Back Stairs	2	Exit Sign (2) 20w Lamps	2	New LED Exit Sign w/BBU
37	Basement Hall	1	Drum Fixture (2) 60w Lamps	1	Replace with (2) 13w Spring Lamps
38	Maint Office	2	4ft Industrial (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
39	Maint Office	1	4ft Wrap Around (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
40	Maint Office	1	4ft Industrial (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
41	Lobby / Hall	1	4ft Wrap Around (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
42	Lobby / Hall	1	Drum Fixture (2) 60w Lamps	1	Replace with (2) 13w Spring Lamps
43	Storage Closet		No Change		
44	Mens R.R.	1	Rec'd Can (1) 60w Lamp	1	Replace with (1) 13w Spring Lamp
45	Hall	4	Rec'd Can (1) 60w Lamp	4	Replace with (1) 13w Spring Lamp
46	Women's R.R.	2	Rec'd Can (1) 60w Lamp	2	Replace with (1) 13w Spring Lamp
47	Meeting Room	8	1x4 Rec'd Troffer (2) F40T12 Lamps	8	Reballast (2) 4ft T8 Lamps
48	Front Lobby	16	1x4 Rec'd Troffer (2) F40T12 Lamps	16	Reballast (2) 4ft T8 Lamps
49	Front Lobby	5	1x4 Rec'd Troffer (2) F40T12 Lamps	5	Reballast (2) 4ft T8 Lamps
50	Front Lobby	2	Exit Sign (2) 20w Lamps	2	New LED Exit Sign w/BBU
51	Transportation Office	16	1x4 Rec'd Troffer (2) F40T12 Lamps	16	Reballast (2) 4ft T8 Lamps
52	Cleaning Supplies		No Change		
53	Crafts Room	28	1x4 Rec'd Troffer (2) F40T12 Lamps	28	Reballast (2) 4ft T8 Lamps
54	Storage Room	1	No Change		·
55	Kitchen Stairs	1	Drum Fixture (2) 60w Lamps	1	Replace with (2) 13w Spring Lamps
56	Elevator	2	2ft Strip (2) F20T12 Lamps	2	Reballast (2) 2ft T8 Lamps

# Park (Lakewood)

ltem	Room	Old	Existing Fixture	New	New Fixture
No.	Description	Qty	Description	Qty	Description
1	Band - Stage	9	4ft Vaportite (2) F40T12 Lamps	9	Reballast (2) 4ft T8 Lamps
2	Band - Rest Of Building		No Change		
3	Garage #1 - Garage	2	4ft Industrial (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
4	Garage #1 - Garage	13	8ft Industrial (2) F96T12HO Lamps	13	8ft Reflector (2) 4ft T8 Lamps
5	Garage #2 - Garage	4	8ft Industrial (2) F96T12HO Lamps	4	8ft Reflector (2) 4ft T8 Lamps
6	Pavilion - Mens R.R.	8	4ft Strip (1) F40T12 Lamp	8	Reballast (1) 4ft T8 Lamp
7	Pavilion - Women's R.R.	8	4ft Strip (1) F40T12 Lamp	8	Reballast (1) 4ft T8 Lamp

8	Pavilion - Mechanical Rm	6	4ft Strip (1) F40T12 Lamp	6	Reballast (1) 4ft T8 Lamp
9	Pavilion - Kitchen	6	2x4 Rec'd Troffer (4) F40T12 Lamps	6	Reballast (4) 4ft T8 Lamps
10	Pavilion - Dining Area	4	Exit Sign (2) 20w Lamps	4	New LED Exit Sign w/BBU
11	Pavilion - Dining Area	8	Rec'd Can (1) 175w MH Lamp	8	No Change to Fixture
12	Pool House - Entry/Lobby	8	4ft Strip (1) F40T12 Lamp	8	Reballast (1) 4ft T8 Lamp
13	Pool House - Entry/Lobby	4	3ft Strip (1) F30T12 Lamp	4	Reballast (1) 3ft T8 Lamp
14	Pool House - Entry/Lobby	13	Rec'd Can (1) 35w HPS	13	No Change to Fixture
15	Pool House - Locker Area	49	4ft Strip (1) F40T12 Lamp	49	Reballast (1) 4ft T8 Lamp
16	Pool House - Locker Area	4	3ft Strip (1) F30T12 Lamp	4	Reballast (1) 3ft T8 Lamp
17	Pool House - Women's R.R.	13	4ft Strip (1) F40T12 Lamp	13	Reballast (1) 4ft T8 Lamp
18	Pool House - Women's R.R.	15	3ft Strip (1) F30T12 Lamp	15	Reballast (1) 3ft T8 Lamp
19	Pool House - Women's R.R.	9	1x4 Rec'd Troffer (1) F40T12 Lamp	9	Reballast (1) 4ft T8 Lamp
20	Pool House - Women's R.R.	4	3ft Strip (1) F30T12 Lamp	4	Reballast (1) 3ft T8 Lamp
21	Pool House - Mens R.R.	22	4ft Strip (1) F40T12 Lamp	22	Reballast (1) 4ft T8 Lamp
22	Pool House - Mens R.R.	5	3ft Strip (1) F30T12 Lamp	5	Reballast (1) 3ft T8 Lamp
23	Pool House - Mens R.R.	11	1x4 Rec'd Troffer (1) F40T12 Lamp	11	Reballast (1) 4ft T8 Lamp
24	Pool House - Mens R.R.	1	3ft Strip (1) F30T12 Lamp	1	Reballast (1) 3ft T8 Lamp
25	Pool House - Mop Closet	1	4ft Vaportite (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
26	Pool House - Lifeguard Office	3	2x4 Modular Troffer (4) F40T12 Lamps	3	Reballast (4) 4ft T8 Lamps
27	Pool House - Kitchen	5	2x2 Rec'd Troffer (2) F32T8/U1-5/8 Lamps	5	No Change to Fixture
28	Pool House - Lg Mens R.R.	3	1x4 Rec'd Troffer (1) F40T12 Lamp	3	Reballast (1) 4ft T8 Lamp
29	Pool House - Lg Mens R.R.	1	4ft Strip (1) F40T12 Lamp	1	Reballast (1) 4ft T8 Lamp
30	Pool House - Lg Women's R.R.	2	4ft Strip (1) F40T12 Lamp	2	Reballast (1) 4ft T8 Lamp
31	Pool House - Lg Women's R.R.	2	1x4 Rec'd Troffer (1) F40T12 Lamp	2	Reballast (1) 4ft T8 Lamp
32	Pool House - Lg Women's R.R.	1	3ft Strip (1) F30T12 Lamp	1	Reballast (1) 3ft T8 Lamp
33	Pool House - Pump Room	10	8ft Vaportite (4) F40T12 Lamps	10	Reballast (4) 4ft T8 Lamps
34	Pool House - Pump Room	3	Exit Sign (2) 20w Lamps	3	New LED Exit Sign w/BBU
35	Refreshments - Mens R.R.	4	4ft Vaporti te (2) F40T12 Lamps	4	Reballast (2) 4ft T8 Lamps
36	Refreshments - Mens R.R.	2	8ft Vaportite (2) F96T12 Lamps	2	New 8ft Vapor tight (2) 4ft T8 Lamps
37	Refreshments - Women's R.R.	4	4ft Vaportite (2) F40T12 Lamps	4	Reballast (2) 4ft T8 Lamps
38	Refreshments - Women's R.R.	2	8ft Vaportite (2) F96T12 Lamps	2	New 8ft Vapor tight (2) 4ft T8 Lamps
39	Refreshments - Storage 1	3	Vapor Tight (1) 60w Lamp	3	Replace with (1) 13w Spring Lamp
40	Refreshments - Refreshment Counter	4	8ft Industrial (2) F96T12HO Lamps	4	8ft Reflector (2) 4ft T8 Lamps
41	Refreshments - Storage 2	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
42	Refreshments - R.R. Entry From Pool	1	4ft Vaportite (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps

# Park (Madison)

Item	Room	Old	Existing Fixture	New	New Fixture
No.	Description	Qty	Description	Qty	Description
1	Front Bldg Lobby	6	4ft Wrap Around (2) F32T8 Lamps	6	Reballast (2) 4ft T8 Lamps
2	Women's R.R.	12	4ft Vaportite (2) F32T8 Lamps	12	Reballast (2) 4ft T8 Lamps
3	Women's R.R Mop Closet	1	4ft Strip (2) F32T8 Lamps	1	Reballast (2) 4ft T8 Lamps
4	Mens R.R.	1	4ft Wrap Around (2) F32T8 Lamps	1	Rebaliast (2) 4ft T8 Lamps
5	Mens R.R.	10	4ft Vaportite (2) F32T8 Lamps	10	Reballast (2) 4ft T8 Lamps
6	Storage Closet	1	4ft Strip (2) F32T8 Lamps	1	Reballast (2) 4ft T8 Lamps
7	Kitchen	8	4ft Vaportite (2) F32T8 Lamps	8	Reballast (2) 4ft T8 Lamps
8	Mens R.R.	3	4ft Vaportite (2) F32T8 Lamps	3	Reballast (2) 4ft T8 Lamps
9	Women's R.R.	3	4ft Vaportite (2) F32T8 Lamps	3	Reballast (2) 4ft T8 Lamps
10	Observation Office	4	2x4 Rec'd Troffer (3) F40T12 Lamps	4	Reballast (3) 4ft T8 Lamps

11	Observation Kitchen	2	2x4 Rec'd Troffer (3) F40T12 Lamps	2	Reballast (3) 4ft T8 Lamps
12	Concession Stand	5	2x4 Rec'd Troffer (3) F40T12 Lamps	5	Reballast (3) 4ft T8 Lamps
13	Basement	6	4ft Vaportite (2) F40T12 Lamps	6	Reballast (2) 4ft T8 Lamps

# Police Department

ltem	Room	Old	Existing Fixture	New	New Fixture
No.	Description	Qty	Description	Qty	Description
1	1St Floor Polygraph Rm	4	4ft Wrap Around (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
2	Detective Bureau	2	1x4 Rec'd Troffer (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
3	Detective Bureau	11	2x4 Rec'd Troffer (4) F40T12 Lamps	11	Reballast (4) 4ft T8 Lamps
4	Detective Bureau	4	4ft Wrap Around (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
5	Locker Rm.	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
6	Locker Rm.	2	4ft Wrap Around (1) F32T8 Lamp	2	Reballast (1) 4ft T8 Lamp
7	Locker Rm.	1	4ft Wall Bracket (1) F40T12 Lamp	1	Reballast (1) 4ft T8 Lamp
8	Locker Rm.	1	Rec'd Can (1) 60w Lamp	1	Replace with (1) 13w Spring Lamp
9	Detective Capt.	5	2x4 Rec'd Troffer (4) F40T12 Lamps	5	Reballast (4) 4ft T8 Lamps
10	Juvenile Office	5	2x4 Rec'd Troffer (4) F40T12 Lamps	5	Reballast (4) 4ft T8 Lamps
11	Closet		No Change		
12	Visiting Rm.	1	4ft Wrap Around (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
13	Fingerprint Rm.	4	Rec'd Can (1) 60w Lamp	4	Replace with (1) 13w Spring Lamp
14	Swat Rm.	4	Rec'd Can (1) 60w Lamp	4	Replace with (1) 13w Spring Lamp
15	Swat Kit.	2	Rec'd Can (1) 60w Lamp	2	Replace with (1) 13w Spring Lamp
16	Secured Storage #6	4	Rec'd Can (1) 60w Lamp	4	Replace with (1) 13w Spring Lamp
17	Records Rm.	16	4ft Wrap Around (2) F40T12 Lamps	16	Reballast (2) 4ft T8 Lamps
18	Records Rm.	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
19	Booking Window	5	4ft Wrap Around (2) F40T12 Lamps	5	Reballast (2) 4ft T8 Lamps
20	Jail Hall	3	4ft Vaportite (2) F40T12 Lamps	3	Reballast (2) 4ft T8 Lamps
21	Jail Hall	6	Rec'd Can (1) 60w Lamp	6	Replace with (1) 13w Spring Lamp
22	Main Jail	5	4ft Wrap Around (4) F40T12 Lamps	5	Reballast (4) 4ft T8 Lamps
23	Main Jail	1	4ft Vaportite (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
24	Main Jail	4	Rec'd Can (1) 60w Lamp	4	Replace with (1) 13w Spring Lamp
25	Women's Jail	4	4ft Wrap Around (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
26	Women's Jail	5	Rec'd Can (1) 60w Lamp	5	Replace with (1) 13w Spring Lamp
27	Sally Port	6	8ft Egg Crate (2) F96T12 Lamps	6	New 8ft Wrap (2) 4ft T8 Lamps
28	Oic Office	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
29	Admin Hall	1	2x4 Rec'd Troffer (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
30	Admin Hall	2	Exit Sign (2) 20w Lamps	2	New LED Exit Sign w/BBU
31	Women's Locker	5	4ft Wrap Around (2) F40T12 Lamps	5	Reballast (2) 4ft T8 Lamps
32	Women's Locker	1	4ft Wrap Around (1) F32T8 Lamp	1	Reballast (1) 4ft T8 Lamp
33	Women's Locker	1	4ft Wall Bracket (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
34	Dispatch		No Change		
35	Commander Office	3	4ft Wrap Around (4) F40T12 Lamps	3	Reballast (4) 4ft T8 Lamps
36	Chief Office	4	2x4 Modular Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
37	Chief Office	2	4ft Wall Bracket (1) F40T12 Lamp	2	Reballast (1) 4ft T8 Lamp
38	Chief Closet	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
39	Police Is Office	2	4ft Wrap Around (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
40	Mens Locker Hall	2	4ft Wrap Around (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
41	Mens Locker	4	4ft Wrap Around (1) F32T8 Lamp	4	Reballast (1) 4ft T8 Lamp
42	Mens Locker	3	2ft Wall Br acket (2) F20T12 Lamps	3	Reballast (2) 2ft T8 Lamps

43	Mens Locker	16	4ft Wrap Around (1) F32T8 Lamp	16	Reballast (1) 4ft T8 Lamp
44	Roll Call Room	8	4ft Wrap Around (2) F40T12 Lamps	8	Reballast (2) 4ft T8 Lamps
45	Hall	8	Rec'd Can (1) 60w Lamp	8	Replace with (1) 13w Spring Lamp
46	Report Room	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
47	Police Main Lobby	7	4x4 Rec'd Troffer (6) F40T12 Lamps	7	Reballast (6) 4ft T8 Lamps
48	Police Main Lobby	3	2x4 Rec'd Troffer (4) F40T12 Lamps	. 3	Reballast (4) 4ft T8 Lamps
49	Police Main Lobby	2	Rec'd Can (1) 60w Lamp	2	Replace with (1) 13w Spring Lamp
50	Basement Police Ramp	3	4ft Wrap Around (2) F40T12 Lamps	3	Reballast (2) 4ft T8 Lamps
51	Ramp Hall	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
52	Prelim Property Rm.	6	4ft Industrial (2) F40T12 Lamps	6	Reballast (2) 4ft T8 Lamps
53	Property Rm.	22	4ft Industrial (2) F40T12 Lamps	22	Reballast (2) 4ft T8 Lamps
54	Property Rm. R.R.	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
55	Training Rm.	8	2x4 Rec'd Troffer (4) F40T12 Lamps	8	Reballast (4) 4ft T8 Lamps
56	Weight Rm. 1	8	4ft Industrial (2) F40T12 Lamps	8	Reballast (2) 4ft T8 Lamps
57	Weight Rm. 2	8	4ft Industrial (2) F40T12 Lamps	8	Reballast (2) 4ft T8 Lamps
58	Weight Rm. R.R.	2	8ft Industrial (4) F32T8 Lamps	2	Reballast (4) 4ft T8 Lamps
59	Weight Room	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
60	Arms Room	4	4ft Industrial (2) F40T12 Lamps	4	Reballast (2) 4ft T8 Lamps
61	Storage Hall	2	4ft Industrial (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
62	Hall	10	Rec'd Can (1) 60w Lamp	10	Replace with (1) 13w Spring Lamp
63	Hall	2	Exit Sign (2) 20w Lamps	2	New LED Exit Sign w/BBU
64	Pistol Range	3	2x4 Rec'd Troffer (4) F40T12 Lamps	3	Reballast (4) 4ft T8 Lamps
65	Pistol Range	2	Exit Sign (2) 20w Lamps	2	New LED Exit Sign w/BBU
66	Secured Storage #5	10	4ft Egg Crate (2) F40T12 Lamps	10	Reballast (2) 4ft T8 Lamps
67	Secured Storage 5 R.R	1	Drum Fixture (2) 60w Lamps	1	Replace with (2) 13w Spring Lamps
68	Records Storage	1	4ft Industrial (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
69	Records Storage	3	8ft Wrap Around (4) F40T12 Lamps	3	Replace with (1) 26w Spring Lamp
70	Narc Office	8	4ft Egg Crate (2) F40T12 Lamps	8	Reballast (2) 4ft T8 Lamps
71	Other Inc Exits	8	Exit Sign (2) 20w Lamps	8	New LED Exit Sign w/BBU

# **<u>Refuse Facility</u>**

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ltem	Room	Old	Existing Fixture	New	New Fixture
No.	Description	Qty	Description	Qty	Description
1	Guard Station - Desk	2	4ft Wrap Around (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
2	Guard Station - Desk	1	8ft Wrap Around (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
3	Guard Station - R.R.	1	Drum Fixture (2) 60w Lamps	1	Replace with (2) 13w Spring Lamps
4	Guard Station - Office 1	2	4ft Wrap Around (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
5	Guard Station - Office 2	2	4ft Wrap Around (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
6	Garage - Main	2	Low Bay (1) 250w HPS	2	New 2x4 High bay (6) 4ft T8 Lamps
7	Garage - Main	9	Low Bay (1) 175w MH	4	New 2x4 High bay (6) 4ft T8 Lamps
8	Garage - Main	12	Low Bay (1) 400w MH	12	New 2x4 High bay (6) 4ft T8 Lamps
9	Garage - Main	1	8ft Industrial (2) F96T12HO Lamps	1	8ft Reflector (2) 4ft T8 Lamps
10	Garage - Time clock	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
11	Garage - Lift	2	8ft Industrial (4) F32T8 Lamps	2	Reballast (4) 4ft T8 Lamps
12	Garage - Workbench	1	4ft Vaportite (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
13	Garage - Mechanics Room	6	8ft Strip (2) F40T12 Lamps	6	Reballast (2) 4ft T8 Lamps
14	Garage - Mechanics Room	1	4ft Egg Crate (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
15	Garage - Back Entry	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
16	Garage - Hall To Breakroom	1	Porcelain Socket (1) 100w Lamp	1	Replace with (1) 26w Spring Lamp

17	Garage - Breakroom	10	4ft Wrap Around (2) F32T8 Lamps	10	Reballast (2) 4ft T8 Lamps
18	Garage - Mens R.R.	11	4ft Wrap Around (2) F32T8 Lamps	11	Reballast (2) 4ft T8 Lamps
19	Garage - Mens Shower	1	4ft Vaportite (2) F32T8 Lamps	1	Reballast (2) 4ft T8 Lamps
20	Garage - Women's R.R.	8	4ft Wrap Around (2) F32T8 Lamps	8	Reballast (2) 4ft T8 Lamps
21	Garage - Women's Shower	1	4ft Vaportite (2) F32T8 Lamps	1	Reballast (2) 4ft T8 Lamps
22	Garage - Stairs To Basement	1	4ft Wrap Around (2) F32T8 Lamps	1	Reballast (2) 4ft T8 Lamps
23	Garage - Basement Hall	5	4ft Wrap Around (2) F32T8 Lamps	5	Reballast (2) 4ft T8 Lamps
24	Garage - Weight Room	6	4ft Wrap Around (2) F32T8 Lamps	6	Reballast (2) 4ft T8 Lamps
25	Garage - Storage Rm 1 (L)	4	4ft Wrap Around (2) F32T8 Lamps	4	Reballast (2) 4ft T8 Lamps
26	Garage - Storage Rm 2 (L)	4	4ft Wrap Around (2) F32T8 Lamps	4	Reballast (2) 4ft T8 Lamps
27	Incinerator - Main	4	Flood (1) 1000w Quartz	4	New Wall pack (1) 150w HPS Lamp
28	Incinerator - Main Desk	1	8ft Industrial (4) F32T8 Lamps	1	Reballast (4) 4ft T8 Lamps
29	Incinerator - Office	3	4ft Wrap Around (4) F40T12 Lamps	3	New 4ft Wrap (1) 4ft T8 Lamp
30	Incinerator - Office	1	8ft Egg Crate (2) F96T12 Lamps	1	New 8ft Wrap (2) 4ft T8 Lamps
31	Incinerator - Refrigerant Cage	1	8ft Strip (2) F96T12 Lamps	1	8ft Reflector (2) 4ft T8 Lamps
32	Incinerator - Paint Room	1	8ft Egg Crate (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
33	Incinerator - Paint Room	1	4ft Egg Crate (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps

# Service Garage

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ltem	Room	Old	Existing Fixture	New	New Fixture
No.	Description	Qty	Description	Qty	Description
1	East Bay	41	Low Bay (1) 400w MH	41	New 2x4 High bay (6) 4ft T8 Lamps
2	Toolbox Room/Bay	6	Low Bay (1) 400w MH	6	New 2x4 High bay (6) 4ft T8 Lamps
3	Radio Shop/Bay	4	Low Bay (1) 400w MH	4	New 2x4 High bay (6) 4ft T8 Lamps
4	Radio Shop/Bay	12	4ft Industrial (2) F48T12HO Lamps	12	8ft Reflector (2) 4ft T8 Lamps
5	Fluid Tanks	1	8ft Industrial (4) F32T8 Lamps	1	New 8ft Strip (2) 4ft T8 Lamps
6	Fluid Tanks	1	8ft Industrial (2) F96T12HO Lamps	1	8ft Reflector (2) 4ft T8 Lamps
7	Office (With Couch)	3	4ft Industrial (2) F40T12 Lamps	3	Reballast (2) 4ft T8 Lamps
8	Office		No Change		
9	Bay With Lift	15	Low Bay (1) 400w MH	15	New 2x4 High bay (6) 4ft T8 Lamps
10	Bay With Lift	7	4ft Vaportite (2) F40T12 Lamps	7	Reballast (2) 4ft T8 Lamps
11	Bay With Lift	3	8ft Industrial (2) F96T12 Lamps	3	8ft Reflector (2) 4ft T8 Lamps
12	Bay With Lift	2	4ft Wrap Around (4) F40T12 Lamps	2	New 8ft Strip (2) 4ft T8 Lamps
13	Lunchroom	13	8ft Wrap Around (4) F40T12 Lamps	13	Reballast (4) 4ft T8 Lamps
14	Women's R.R Lounge	9	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	9	Reballast (2) U6 T8 Lamps
15	Women's Shower	4	4ft Vaportite (2) F40T12 Lamps	4	Reballast (2) 4ft T8 Lamps
16	Hall Off Lunchroom	2	4ft Industrial (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
17	Community Serv. Off.	1	8ft Industrial (4) F32T8 Lamps	1	Reballast (4) 4ft T8 Lamps
18	Community Serv. Off.	1	4ft Industrial (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
19	Electrician Office		No Change		
20	Parking Meter Room	4	8ft Industrial (2) F96T12HO Lamps	4	8ft Reflector (2) 4ft T8 Lamps
21	Office Hall	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
22	Office Hall	1	8ft Wrap Around (4) F40T12 Lamps	1	Rebaliast (4) 4ft T8 Lamps
23	Streets Unit Mngr.	3	4ft Wrap Around (2) F40T12 Lamps	3	Reballast (2) 4ft T8 Lamps
24	Group Leader Off.	4	4ft Wrap Around (2) F40T12 Lamps	4	Reballast (2) 4ft T8 Lamps
25	Parking Enforcement	4	4ft Wrap Around (2) F40T12 Lamps	4	Reballast (2) 4ft T8 Lamps
26	Forestry Mngr.	3	4ft Wrap Around (2) F40T12 Lamps	3	Reballast (2) 4ft T8 Lamps
27	Hall #2	4	2x4 Rec'd Troffer (2) F40T12 Lamps	4	Reballast (2) 4ft T8 Lamps
28	Hall #2	1	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	1	Reballast (2) U6 T8 Lamps

29	Hall #2	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
30	Sidewalk Office	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
31	Bernie Madison Off.	3	2x4 Rec'd Troffer (4) F40T12 Lamps	3	Reballast (4) 4ft T8 Lamps
32	Copy Room	2	4ft Wrap Around (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
33	Streets Sect'Y	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
34	Recept. Desk Off.	1	2x4 Rec'd Troffer (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
35	Parks Operations Hall	4	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	4	Reballast (2) U6 T8 Lamps
36	Office 1	3	2x4 Rec'd Troffer (4) F40T12 Lamps	3	Reballast (4) 4ft T8 Lamps
37	Office 2	3	2x4 Rec'd Troffer (4) F40T12 Lamps	3	Reballast (4) 4ft T8 Lamps
38	Parks Unit Mngr.	3	2x4 Rec'd Troffer (4) F40T12 Lamps	3	Reballast (4) 4ft T8 Lamps
39	Parks Unit Mngr.	1	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	1	Reballast (2) U6 T8 Lamps
40	Time clock Lobby	30	4ft Industrial (2) F40T12 Lamps	30	Reballast (2) 4ft T8 Lamps
41	Mezzanine	11	High Bay (1) 400w HPS	11	Replace with (1) 26w Spring Lamp
42	2Nd Flr Storage	15	High Bay (1) 400w HPS	15	Replace with (1) 26w Spring Lamp
43	Mens R.R. 2Nd Floor	1	High Bay (1) 400w HPS	1	Replace with (1) 26w Spring Lamp
44	Mens R.R. 2Nd Floor	6	4ft Industrial (2) F40T12 Lamps	6	Reballast (2) 4ft T8 Lamps
45	Mens R.R. 2Nd Floor	2	4ft Wall Bracket (1) F40T12 Lamp	2	Reballast (1) 4ft T8 Lamp
46	Mens Shower/Locker	6	4ft Wrap Around (2) F40T12 Lamps	6	Reballast (2) 4ft T8 Lamps
47	Mens Shower	1	Vapor Tight (1) 60w Lamp	1	Replace with (1) 13w Spring Lamp
48	Center Bay	18	Low Bay (1) 400w MH	18	New 2x4 High bay (6) 4ft T8 Lamps
49	Center Bay	2	8ft Industrial (2) F96T12 Lamps	2	8ft Reflector (2) 4ft T8 Lamps
50	Center Bay	2	8ft Industrial (2) F96T12HO Lamps	2	8ft Reflector (2) 4ft T8 Lamps
51	Center Bay	2	4ft Vaportite (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
52	Center Bay	2	8ft Strip (2) F96T12 Lamps	2	8ft Reflector (2) 4ft T8 Lamps
53	Compressor Rm	2	8ft Wrap Around (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
54	Refrigerator Rm	2	4ft Wrap Around (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
55	Dispatch Desk	.3	4ft Wrap Around (4) F40T12 Lamps	3	Reballast (4) 4ft T8 Lamps
56	Hall	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
57	Lunchroom	3	8ft Industrial (2) F96T12HO Lamps	3	8ft Reflector (2) 4ft T8 Lamps
58	Parts Room	4	Low Bay (1) 400w MH	4	New 2x4 High bay (6) 4ft T8 Lamps
59	Parts Room	8	8ft Industrial (2) F96T12HO Lamps	8	8ft Reflector (2) 4ft T8 Lamps
60	Parts Room	3	4ft Vaportite (2) F40T12 Lamps	3	Reballast (2) 4ft T8 Lamps
61	Parts Room	2	8ft Strip (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
62	Hall	2	8ft Strip (1) F96T12 Lamp	2	8ft Reflector (2) 4ft T8 Lamps
63	Fleet Mngr Office	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
64	Fleet Mngr Office	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
65	Fleet Mngr Office	3	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	3	Reballast (2) U6 T8 Lamps
66	Stairs To 2Nd Flr	1	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	1	Reballast (2) U6 T8 Lamps
67	2Nd Floor Office	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
68	West Bay	36	Low Bay (1) 400w MH	36	New 2x4 High bay (6) 4ft T8 Lamps
69	West Bay	2	8ft Industrial (2) F96T12HO Lamps	2	8ft Reflector (2) 4ft T8 Lamps
70	West Bay	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps

# Shops & Aging Garage

Item	Room	Old	Existing Fixture	New	New Fixture
No.	Description	Qty	Description	Qty	Description
1	Carpenter Shop	19	8ft Industrial (2) F96T12 Lamps	19	8ft Reflector (2) 4ft T8 Lamps
2	Carpenter Kitchen	2	8ft Industrial (2) F96T12 Lamps	2	8ft Reflector (2) 4ft T8 Lamps

3	Garage Bay 1 & 2	2	8ft Industrial (2) F96T12HO Lamps	2	8ft Reflector (2) 4ft T8 Lamps
4	Office	2	8ft Industrial (2) F96T12 Lamps	2	8ft Reflector (2) 4ft T8 Lamps
5	Garage Bay 3	1	8ft Industrial (2) F96T12HO Lamps	1	8ft Reflector (2) 4ft T8 Lamps
6	Restroom	2	Rec'd Can (1) 60w Lamp	2	Replace with (1) 13w Spring Lamp
7	Locker Room	1	8ft Industrial (2) F96T12HO Lamps	1	8ft Reflector (2) 4ft T8 Lamps
8	Table Saw Room	2	8ft Industrial (2) F96T12HO Lamps	2	8ft Reflector (2) 4ft T8 Lamps
9	Bay 4, 5 & 6	9	8ft Industrial (2) F96T12HO Lamps	9	8ft Reflector (2) 4ft T8 Lamps
10	Bay 4, 5 & 6	2	8ft Wrap Around (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
11	Office On Aging Bus Garage	1	4ft Industrial (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
12	Office On Aging Bus Garage	8	Flood (1) 500w Quartz	8	New Wall pack (1) 150w HPS Lamp
13	Sign Shop Garage	11	8ft Industrial (2) F96T12 Lamps	11	8ft Reflector (2) 4ft T8 Lamps
14	Garage Workbench	1	8ft Industrial (2) F96T12HO Lamps	1	8ft Reflector (2) 4ft T8 Lamps
15	Parts Rm (W/Sink)	3	1x4 Rec'd Troffer (2) F40T12 Lamps	3	Reballast (2) 4ft T8 Lamps
16	General Repair Office	4	4ft Wrap Around (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
17	Controller Repair Office	4	4ft Wrap Around (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
18	Office	2	4ft Industrial (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
19	Kitchen	2	4ft Wrap Around (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
20	Mens R.R	2	4ft Industrial (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
21	Women's R.R	1	Rec'd Can (1) 60w Lamp	1	Replace with (1) 13w Spring Lamp
22	Women's R.R	1	Rec'd Can (1) 60w Lamp	1	Replace with (1) 13w Spring Lamp
23	Paint Room	3	4ft Vaportite (2) F40T12 Lamps	3	Reballast (2) 4ft T8 Lamps
24	Soffit & Sign Storage	6	1x4 Rec'd Troffer (2) F40T12 Lamps	6	Reballast (2) 4ft T8 Lamps
25	Traffic Operations Office	6	4ft Wrap Around (4) F40T12 Lamps	6	New 8ft Wrap (2) 4ft T8 Lamps
26	2Nd Fir. Art Room	6	4ft Wrap Around (4) F40T12 Lamps	6	New 8ft Wrap (2) 4ft T8 Lamps
27	Dark Room	4	4ft Wrap Around (2) F40T12 Lamps	4	New 4ft Wrap (1) 4ft T8 Lamp
28	2Nd Fir Above R.R.'S	3	2x4 Rec'd Troffer (4) F40T12 Lamps	3	Reballast (4) 4ft T8 Lamps
29	2Nd Fir Above R.R.'S	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
30	Cage	2	4ft Strip (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
31	Storage Room	4	1x4 Rec'd Troffer (2) F40T12 Lamps	4	Reballast (2) 4ft T8 Lamps

# <u>Utilities Garage</u>

ltem	Room	Old	Existing Fixture	New	New Fixture
No.	Description	Qty	Description	Qty	Description
1	Visitors Lobby	1	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	1	Reballast (2) U6 T8 Lamps
2	Visitors Lobby	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
3	Sect'Y Desk	3	2x4 Rec'd Troffer (2) F40T12 Lamps	3	Reballast (2) 4ft T8 Lamps
4	Conference Room	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
5	Metering Office	12	2x4 Rec'd Troffer (4) F40T12 Lamps	12	Reballast (4) 4 ft T8 Lamps
6	Metering Office Storage	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
7	Metering Room	10	8ft Wrap Around (4) F40T12 Lamps	10	Reballast (4) 4ft T8 Lamps
8	Metering Room	2	4ft Wrap Around (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
9	Metering Room	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
10	Hall	2	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	2	Reballast (2) U6 T8 Lamps
11	Office 1	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
12	Office 2	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
13	Main Entry/Lobby	6	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	6	Reballast (2) U6 T8 Lamps
14	Main Entry/Lobby	2	Exit Sign (2) 20w Lamps	2	New LED Exit Sign w/BBU
15	Office	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
16	Mop Closet	1	4ft Industrial (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps

17	Mens Locker Entry	1	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	1	Reballast (2) U6 T8 Lamps
18	Mens Locker Room	3	3ft Wall Bracket (1) F30T12 Lamp	3	Reballast (1) 3ft T8 Lamp
19	Mens Locker Room	3	3ft Wall Bracket (1) F30T12 Lamp	3	Reballast (1) 3ft T8 Lamp
20	Mens Locker Room	1	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	1	Reballast (2) U6 T8 Lamps
21	Mens Locker Room	6	2x4 Rec'd Troffer (4) F40T12 Lamps	6	Reballast (4) 4ft T8 Lamps
22	Women's Locker Room	2	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	2	Reballast (2) U6 T8 Lamps
23	Women's Locker Room	3	3ft Wall Bracket (1) F30T12 Lamp	3	Reballast (1) 3ft T8 Lamp
24	Women's Locker Room	2	2x4 Rec'd Troffer (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
25	Breakroom	8	2x4 Rec'd Troffer (4) F40T12 Lamps	8	Reballast (4) 4ft T8 Lamps
26	Breakroom	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
27	Computer Storage	1	4ft Industrial (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
28	Glove Room	1	4ft Industrial (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
29	Garage Cages	22	4ft Industrial (2) F40T12 Lamps	22	Reballast (2) 4ft T8 Lamps
30	Garage	32	Low Bay (1) 400w MH	32	New 2x4 High bay (6) 4ft T8 Lamps
31	Garage	3	Exit Sign (2) 20w Lamps	3	New LED Exit Sign w/BBU
32	Weight Room	8	8ft Wrap Around (4) F40T12 Lamps	8	Reballast (4) 4ft T8 Lamps
33	Outside Lights	8	Wall Pack (1) 150w HPS	8	No Change to Fixture
34	Garage (By Salt Storage)	2	8ft Industrial (2) F96T12HO Lamps	2	8ft Reflector (2) 4ft T8 Lamps

# <u>Water Treatment</u>

item	Room	Old	Existing Fixture	New	New Fixture
No.	Description	Qty	Description	Qty	Description
<u>1</u>	Main Floor Time Clock	1	8ft Strip (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
2	Bulletin Board	1	4ft Strip (1) F40T12 Lamp	1	Reballast (1) 4ft T8 Lamp
3	Garage	4	Low Bay (1) 100w HPS	4	No Change to Fixture
4	Bullpen Low	8	Low Bay (1) 100w HPS	8	No Change to Fixture
5	Bullpen High	10	Low Bay (1) 250w HPS	10	No Change to Fixture
6	Mens Locker Rm.	2	8ft Wrap Around (2) F32T8 Lamps	2	Reballast (2) 4ft T8 Lamps
7	Mens Locker Rm.	2	2x4 Rec'd Troffer (3) F40T12 Lamps	2	Reballast (3) 4ft T8 Lamps
8	Filter Press Control	2	2x4 Rec'd Troffer (3) F40T12 Lamps	2	Reballast (3) 4ft T8 Lamps
9	Maint. Shop	22	8ft Industrial (4) F32T8 Lamps	22	8ft Reflector (2) 4ft T8 Lamps
10	Maint. Shop	2	4ft Industrial (2) F40T12 Lamps	2	4ft Reflector (1) 4ft T8 Lamp
11	Maint. Shop	1	8ft Strip (2) F96T12 Lamps	1	8ft Reflector (2) 4ft T8 Lamps
12	Chief Mech Office	4	4ft Industrial (2) F40T12 Lamps	4	Reballast (2) 4ft T8 Lamps
13	Lower Machine Shop	4	8ft Industrial (2) F96T12HO Lamps	4	8ft Reflector (2) 4ft T8 Lamps
14	Electric Repair	4	2x4 Parabolic Troffer (3) F40T12 Lamps	4	Reballast (3) 4ft T8 Lamps
15	Switchgear	13	4ft Wrap Around (1) F32T8 Lamp	13	Reballast (1) 4ft T8 Lamp
16	Stairs (Base-3Rd Flr.)	2	4ft Wrap Around (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
17	Stairs (Base-3Rd Flr.)	11	4ft Strip (1) F40T12 Lamp	11	Reballast (1) 4ft T8 Lamp
18	Stairs (Base-3Rd Flr.)	1	4ft Industrial (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
19	2Nd Flr. Sect'Y Desk	3	4x4 Modular Troffer (6) F40 T12 Lamps	3	Reballast (6) 4ft T8 Lamps
20	2Nd Flr. Sect'Y Desk	2	2x4 Modular Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
21	Control Center	4	2x4 Rec'd Troffer (3) F40T12 Lamps	4	Reballast (3) 4ft T8 Lamps
22	Unit Mngr. Office	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
23	Hall	6	4ft Wrap Around (1) F32T8 Lamp	6	Reballast (1) 4ft T8 Lamp
24	Hali	1	2x4 Rec'd Troffer (3) F40T12 Lamps	1	Reballast (3) 4ft T8 Lamps
25	Ops. Mngr. Office	2	8ft Wrap Around (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
26	Ops. Mngr. Office	2	4ft Wrap Around (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
27	Ladies R.R		No Change		

28	Mop Closet	1	8ft Wrap Around (4) F40T12 Lamps	1	Replace with (1) 26w Spring Lamp
29	Conference Rm.	4	8ft Wrap Around (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
30	Conference Rm.	2	4ft Wrap Around (2) F40T12 Lamps	2	Reballast (2) 4ft T8 Lamps
31	Mens R.R.	3	4ft Wall Bracket (1) F40T12 Lamp	3	Reballast (1) 4ft T8 Lamp
32	Switchgear	1	8ft Wrap Around (2) F32T8 Lamps	1	Reballast (2) 4ft T8 Lamps
33	Lab	12	2x4 Rec'd Troffer (4) F40T12 Lamps	12	Reballast (4) 4ft T8 Lamps
34	Lab	2	2x2 Rec'd Troffer (2) F40T12/U6 Lamps	2	Reballast (2) U6 T8 Lamps
35	Lab Storage	4	8ft Wrap Around (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
36	Lunchroom	10	4ft Strip (1) F40T12 Lamp	10	Reballast (1) 4ft T8 Lamp
37	Storage Room	4	Low Bay (1) 100w HPS	4	No Change to Fixture
38	Mezzanine	5	Low Bay (1) 100w HPS	5	No Change to Fixture
39	3Rd Flr. Operations	14	Low Bay (1) 100w HPS	14	No Change to Fixture
40	3Rd Fir. Back Room	5	Low Bay (1) 100w HPS	5	No Change to Fixture
41	Basement (Main Bldg)	23	Low Bay (1) 100w HPS	23	No Change to Fixture
42	Tunnel #1		Low Bay (1) 70w HPS		No Change to Fixture
43	End Of Tunnel #1		Low Bay (1) 100w HPS		No Change to Fixture
44	Tunnel #2		Low Bay (1) 70w HPS		No Change to Fixture
45	End Of Tunnel #2		Low Bay (1) 100w HPS		No Change to Fixture
46	Tunnel #3	1	Low Bay (1) 70w HPS		No Change to Fixture
47	End Of Tunnel #3		Low Bay (1) 100w HPS		No Change to Fixture
48	Pole Lights	1	No Change		
49	Waste Water Bldg		Low Bay (1) 100w HPS		No Change to Fixture
50	Waste Water Stairs	5	4ft Wrap Around (1) F32T8 Lamp	5	Reballast (1) 4ft T8 Lamp

# Winterhurst Ice Rink (actual scope contingent upon renovation project by rink operator)

Item	Room	Old	Existing Fixture	New	New Fixture
No.	Description	Qty	Description	Qty	Description
1	Main Entrance	6	2x4 Rec'd Troffer (4) F32T8 Lamps	6	Reballast (4) 4ft T8 Lamps
2	Main Entrance	17	Rec'd Can (1) 65w R-Lamp	17	Replace with (1) 26w R40 Lamp
3	Ticket Booth	1	2x4 Rec'd Troffer (4) F32T8 Lamps	1	Reballast (4) 4ft T8 Lamps
4	Ticket Booth	1	2x2 Rec'd Troffer (2) F32T8/U1-5/8 Lamps	1	No Change to Fixture
5	Ticket Booth Soffit	10	4ft Strip (1) F32T8 Lamp	10	Reballast (1) 4ft T8 Lamp
6	Locker Area Low	12	2x2 Rec'd Troffer (2) F32T8/U1-5/8 Lamps	12	No Change to Fixture
7	Locker Area High	12	2x4 Rec'd Troffer (4) F32T8 Lamps	12	Reballast (4) 4ft T8 Lamps
8	Concession Stand	2	Rec'd Can (1) 65w R-Lamp	2	Replace with (1) 26w R40 Lamp
9	Concession Stand	9	2x2 Rec'd Troffer (2) F32T8/U1-5/8 Lamps	9	No Change to Fixture
10	Concession Stand Wall	6	4ft Wall Bracket (1) F32T8 Lamp	6	Reballast (1) 4ft T8 Lamp
11	Concession Back Room	5	8ft Wrap Around (4) F32T8 Lamps	5	Reballast (4) 4ft T8 Lamps
12	Concession Back Room	2	4ft Wrap Around (2) F32T8 Lamps	2	Reballast (2) 4ft T8 Lamps
13	Concession Back R.R		No Change		
14	Skate Room	10	4ft Strip (1) F32T8 Lamp	10	Reballast (1) 4ft T8 Lamp
15	Skate Repair Rm	6	4ft Strip (1) F32T8 Lamp	6	Reballast (1) 4ft T8 Lamp
16	Skate Repair Rm	1	4ft Industrial (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
17	Drinking Fountain	3	Rec'd Can (1) 65w R-Lamp	3	Replace with (1) 26w R40 Lamp
18	Mens R.R.	5	4ft Wall Bracket (1) F32T8 Lamp	5	Reballast (1) 4ft T8 Lamp
19	Women's R.R.	5	4ft Wall Bracket (1) F32T8 Lamp	5	Reballast (1) 4ft T8 Lamp
20	Display Case	1	4ft Strip (1) F40T12 Lamp	1	Reballast (1) 4ft T8 Lamp
21	Display Case	1	3ft Strip (1) F30T12 Lamp	1	Reballast (1) 3ft T8 Lamp
22	Rink #1	3	Exit Sign (2) 20w Lamps	3	New LED Exit Sign w/BBU
23	Over Bleachers	21	Rec'd Can (1) 65w R-Lamp	21	Replace with (1) 26w R40 Lamp
24	Bleacher Upper Storage	5	4ft Wrap Around (2) F40T12 Lamps	5	Reballast (2) 4ft T8 Lamps
25	First Aid Room/Lockers	3	8ft Wrap Around (4) F40T12 Lamps	3	Reballast (4) 4ft T8 Lamps
26	First Aid Room/Lockers	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
27	First Aid R.R.	1	Drum Fixture (2) 60w Lamps	1	Replace with (2) 13w Spring Lamps

28 N	Mens Locker Room Hall	5	1x4 Modular Troffer (2) F32T8 Lamps	5	Reballast (2) 4ft T8 Lamps
					New LED Exit Sign w/BBU
	Mens Locker Room Hall		Exit Sign (2) 20w Lamps		
	Locker Rm #1		8ft Strip (4) F32T8 Lamps		Reballast (4) 4ft T8 Lamps
	Locker Rm #1		1x4 Modular Troffer (2) F32T8 Lamps		Reballast (2) 4ft T8 Lamps
	Locker Rm #2		8ft Strip (4) F32T8 Lamps		Reballast (4) 4ft T8 Lamps
	Locker Rm #3		8ft Strip (4) F32T8 Lamps		Reballast (4) 4ft T8 Lamps
	Locker Rm #4	2	8ft Strip (4) F32T8 Lamps	2	Reballast (4) 4ft T8 Lamps
	Locker Rm #4 R.R.	1	4ft Wall Bracket (2) F32T8 Lamps	1	Reballast (2) 4ft T8 Lamps
	Locker Rm #4 Shower	2	Rec'd Can (1) 65w R-Lamp	2	Replace with (1) 26w R40 Lamp
	Locker Rm #5	2	8ft Strip (4) F32T8 Lamps	2	Reballast (4) 4ft T8 Lamps
	Locker Rm #6	2	8ft Strip (4) F32T8 Lamps	2	Reballast (4) 4ft T8 Lamps
	Locker Rm #7		8ft Strip (4) F32T8 Lamps	2	Reballast (4) 4ft T8 Lamps
	Locker Rm #8	1	8ft Strip (4) F32T8 Lamps	1	Reballast (4) 4ft T8 Lamps
	Locker Rm #8	1	1x4 Modular Troffer (2) F32T8 Lamps	1	Reballast (2) 4ft T8 Lamps
	Locker Rm #9	10	4ft Vaportite (2) F32T8 Lamps		Reballast (2) 4ft T8 Lamps
	Zamboni Room	7	8ft Strip (4) F32T8 Lamps	7	Reballast (4) 4ft T8 Lamps
	Zamboni Room	2	8ft Industrial (4) F32T8 Lamps		Reballast (4) 4ft T8 Lamps
45	Zamboni Room	2	4ft Industrial (2) F32T8 Lamps	2	Reballast (2) 4ft T8 Lamps
	Pump Room	5	4ft Industrial (2) F32T8 Lamps	5	Reballast (2) 4ft T8 Lamps
	Rink #2	3	Exit Sign (2) 20w Lamps	3	New LED Exit Sign w/BBU
48 2	2Nd Floor Hall	10	2x2 Rec'd Troffer (2) F32T8/U1-5/8	10	No Change to Fixture
			Lamps		
	2Nd Hall Wall	7	4ft Wall Bracket (1) F32T8 Lamp	7	Reballast (1) 4ft T8 Lamp
50	Sect'y Office	4	2x4 Rec'd Troffer (3) F32T8 Lamps	4	Reballast (3) 4ft T8 Lamps
51	Sect'Y Wall	3	4ft Wall Bracket (1) F32T8 Lamp	3	Reballast (1) 4ft T8 Lamp
52	Mngr. Office	4	2x2 Rec'd Troffer (2) F32T8/U1-5/8	4	No Change to Fixture
			Lamps		
53	Mngr. Wall	3	4ft Wall Bracket (1) F32T8 Lamp	3	Reballast (1) 4ft T8 Lamp
54	Mngr. Closet	1	2x4 Rec'd Troffer (2) F32T8 Lamps	1	Reballast (2) 4ft T8 Lamps
55	Spiral Stairs	1	Rec'd Can (1) 65w R-Lamp	1	Replace with (1) 26w R40 Lamp
56	Meeting Rm. 1	6	2x2 Rec'd Troffer (2) F32T8/U1-5/8	6	No Change to Fixture
1 1	-		Lamps	1	
57	Meeting Rm. 1 Wall	6	4ft Wall Bracket (1) F32T8 Lamp	6	Reballast (1) 4ft T8 Lamp
	Meeting Rm. 1 Wall	2	2ft Strip (3) F20T12 Lamps	2	Reballast (1) 3ft T8 Lamp
59	Meeting Rm. 1 Storage	4	4ft Strip (1) F32T8 Lamp	4	Reballast (1) 4ft T8 Lamp
60	Lounge	12	2x2 Rec'd Troffer (2) F32T8/U1-5/8	12	No Change to Fixture
			Lamps		
	Mens R.R.	3	2ft Strip (3) F20T12 Lamps	3	Reballast (1) 3ft T8 Lamp
	Women's R.R.	3	2ft Strip (3) F20T12 Lamps	3	Reballast (1) 3ft T8 Lamp
63	Meeting Rm. 2	8	2x2 Rec'd Troffer (2) F32T8/U1-5/8	8	No Change to Fixture
			Lamps		
	Meeting Rm. 2 Wall	9	4ft Wall Bracket (1) F32T8 Lamp	9	Reballast (1) 4ft T8 Lamp
	Meeting Rm. 2 Storage	1	4ft Wall Bracket (1) F40T12 Lamp	, 1	Reballast (1) 4ft T8 Lamp
66	Switchgear Rm.	4	2x4 Rec'd Troffer (4) F40T12 Lamps	4	Reballast (4) 4ft T8 Lamps
	Back Stairs (To Rink #1)		Rec'd Can (1) 65w R-Lamp	· · · · ·	Replace with (1) 26w R40 Lamp

# Youth Services

Item	Room	Old	Existing Fixture	New	New Fixture
No.	Description	Qty	Description	Qty	Description
1	Entry	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
2	Waiting Rm.	1	2x4 Modular Troffer (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
3	Bullpen	10	2x4 Rec'd Troffer (4) F40T12 Lamps	10	Reballast (4) 4ft T8 Lamps
4	Bullpen	2	Exit Sign (2) 20w Lamps	2	New LED Exit Sign w/BBU
5	Conf. Room	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
6	Office 1	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
7	Office 2	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
8	Office 3	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
9	Restroom	1	4ft Wrap Around (2) F40T12 Lamps	1	Reballast (2) 4ft T8 Lamps
10	Back Hall	1	4ft Wrap Around (2) F32T8 Lamps	1	Reballast (2) 4ft T8 Lamps
11	Back Hall	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU
		مسامع	· · · · · · · · · · · · · · · · · · ·		

12	Back Office	2	2x4 Rec'd Troffer (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
13	Back Entry	1	4ft Wrap Around (2) F32T8 Lamps	1	Reballast (2) 4ft T8 Lamps
14	Garage	2	Porcelain Socket (1) 100w Lamp	2	Replace with (1) 26w Spring Lamp
15	Stairs Up	1	Drum Fixture (2) 60w Lamps	1	Replace with (2) 13w Spring Lamps
16	2Nd FIr Hall		No Change		
17	Office 1	2	8ft Wrap Around (4) F32T8 Lamps	2	Reballast (4) 4ft T8 Lamps
18	Office 2	1	8ft Wrap Around (4) F32T8 Lamps	1	Reballast (4) 4ft T8 Lamps
19	Office 3	1	8ft Wrap Around (4) F32T8 Lamps	1	Reballast (4) 4ft T8 Lamps
20	Waiting Rm.	1	2x4 Rec'd Troffer (4) F40T12 Lamps	1	Reballast (4) 4ft T8 Lamps
21	Kitchen	1	Drum Fixture (2) 60w Lamps	1	Replace with (2) 13w Spring Lamps
22	Office 4	2	8ft Wrap Around (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
23	Office 5	2	8ft Wrap Around (4) F40T12 Lamps	2	Reballast (4) 4ft T8 Lamps
24	Restroom	4	Porcelain Socket (1) 60w Lamp	4	Replace with (1) 13w Spring Lamp
25	Stairs To Basement	1	Drum Fixture (2) 60w Lamps	1	Replace with (2) 13w Spring Lamps
26	Basement	1	Porcelain Socket (1) 100w Lamp	1	Replace with (1) 26w Spring Lamp
27	Basement	1	Exit Sign (2) 20w Lamps	1	New LED Exit Sign w/BBU

#### Infrastructure Improvement Measure # 2

#### **Building Envelope Improvements**

Scope: The following scope items include weather-stripping and sealants installed to prevent outside air infiltration and exfiltration around doors, windows, walls, and roofs. This measure will cover the following areas:

#### City Hall

Doors

3-Double commercial---DX, DS and Center Bands

7-Single commercial---DX and DS

3-Single commercial—DX and DS (Sally port)

1-Single commercial---DX and DS (Building Dept. to Garage)

#### Garage Level

4-small connection holes at common wall

1-large connection hole at common wall (Fire stop and Single component)

Windows (Auditorium)

65 LF caulking at bottom and top connections-mullions leak at various locations

#### **Public Works**

Doors

2-Double commercial-DX and DS-Separation doors

3-Single commercial-DX and DS-Separation doors

11-Single commercial-DX and DS-Entry

2-Double commercial-DX, DS and Center bands-Entry

7-12 by 12 Garage doors with 2 by 8 repairs to hold weather-strip and track

Roof Wall Seam

840 LF Exposed wall seam in older section of shop

#### Lakewood Park (Women's Club Pavilion)

Doors

3-Double commercial-DX, DS and Center bands

1-Single commercial-DX and DS

#### **Division of Youth**

Doors

1 set-Double commercial-DX, DS and Center bands (Front Door)

1-Single wood –DX and DS

1 set- Double wood-DX, DS and Center bands -Tight existing storm

3-Single doors-DX and DS (Rear door, Basement and Roof door)

## Senior Center

Doors

4-Single commercial-DX and DS- DK BR

1-Single commercial OS-DX and DS

(Interior glaze as needed)(Lubricate hinges and closures)

1 set-Double commercial-DX, DS and Center bands-Lower level

Attic Hatches

2-16 LF of caulking to seal completely-partially sealed at present

# <u>Ice Rink</u>

(Scope to be determined and coordinated as a result of renovation project by rink operator.)

#### Roof wall seam

Ice rink area 900 LF exposed material. Upper edge at wall connection is open. The insulation barrier has failed for a host of reasons. Remove lower piece and seal wall connection with 2 part foam; install rolled R-6 vinyl back insulation into opening. Average height of opening is 10 to 12 inches.

## Municipal Garage

Doors

1-Single commercial door to shop area-DX and DS

1 set-Double commercial door—Water Department—DX, DS and Center bands

1-Single commercial—Water Department—DX and DS

3-Single commercial—Shop Area—DX and DS

3-Garage door Roll-ups-2 sides only slip over 14 feet

Roof wall seam (Office area) 306 LF

Open seam at building edge with open soffitts especially at the Employee entrance.

#### Sign Department

Doors

5-Single commercial doors-DX and DS additional sealing at rear door

2-12 by 14 garage doors (3 sides only)

1-12 by 14 garage door Seal shut area is blocked Light Brown color

Vents---3 by 3 at upper edge Seal shut- connected to conditioned space

### Fire Station #1

#### Doors

1 set---Double commercial-Missing threshold 6 foot length

9 –Single commercial doors to decouple- DX and DS

### Fire Station #2

7----Single commercial doors----DX and DS

# Fire Station #3

\_1—Single commercial door DK BR-DS only 2 sets—Double commercial—DX, DS and Center bands

# Customer (The City of Lakewood) Responsibilities:

In Winterhurst Ice Rink, City will need to enable JCI to coordinate work with rink operator.

### Infrastructure Improvement Measure # 3

# **Building Automation System Installation**

The existing pneumatic control system will be upgraded to the latest version of Metasys complete with Direct Digital Control (DDC) capabilities up to and including each air handler controller as seen below.

Existing wiring and pneumatic tubing may be reused provided it is in good condition and that it is compatible. JCI will remove existing controls not required in the new control applications.

£2

The new controls will match the existing sequence of operation. The City will coordinate with JCI to allow proper access to mechanical rooms and spaces. The following equipment will be included with the new building automation system:

## City Hall

Water-cooled chiller and cooling tower Primary chilled water and condenser water pumps VFD drives Steam boilers (monitor only) Hot water pump Steam-to-hot water heat exchanger Four (4) multi-zone air handling units and associated controls

#### Winterhurst Ice Rink

Six (6) rooftop air handling units Two (2) desiccant dehumidification units One (1) packaged outdoor heating and air conditioning unit Three (3) ammonia ice making machines Ice Rink Temperature/humidity sensors Carbon Dioxide sensors

System software features including:

Adjustment and Override of system parameters Scheduling and Reporting functions Historical Trending and Data Collection Alarm Annunciation including Paging and E-mail Notification

#### Infrastructure Improvement Measure #4

Winterhurst Ice Rink Rooftop Unit Replacement

The six (6) existing Carrier Rooftop Units (RTUs) at Winterhurst shall be removed and replaced with York (or equivalent) RTUs. The two (2) existing Engelhard desiccant dehumidification units shall be replaced with new Munters (or equivalent) desiccant dehumidification units. JCI will include all items for a complete turn-key proposal, including the following:

JCI shall provide, coordinate, & install the following RTU installation items, to include the replacement of the RTU units, ductwork modifications, duct insulation, curb adapters, proper weather sealing of the unit and the provision of adequate condensate drainage. JCI shall be responsible for demolition, removal, & proper disposal of the existing Roof Top Units and provide dumpsters as necessary.

JCI shall reconnect all electrical power and gas as required per each unit.

JCI shall provide air balancing/measuring services at the new air handling units. This does not include providing air balancing of the diffusers served by the new air handling units.

Johnson Controls shall be advised if asbestos is encountered. The City will be responsible for removal.

The installation shall be warranted as to equipment and labor for one year after acceptance in writing for beneficial use.

## Infrastructure Improvement Measure # 5

#### **City Hall Chiller Replacement and HVAC Upgrades**

The existing Trane water-cooled chiller shall be dismantled, removed, and replaced with a new chiller, York or equivalent.

JCI shall provide materials & labor required to install a complete new turn-key chiller system installation. Dispose of hazardous materials (i.e. refrigerant) in accordance with current federal, state, and local requirements.

Implement/provide all equipment, systems, devices, & inspections and permits/drawings necessary to satisfy mechanical equipment room mechanical, electrical and fire codes. Provide and install a new refrigerant monitoring system in the mechanical room in accordance with controlling building code.

JCI shall provide all electrical service for new chiller as required.

JCI shall supply all piping, hydronic specialties (as required), piping insulation and labeling, support structure, and housekeeping pads, and all other material as necessary. The existing concrete pad will be re-used with the new chiller.

Johnson Controls shall be advised if asbestos is encountered. The City will be responsible for removal.

The installation shall be warranted as to equipment and labor for one year after acceptance in writing for beneficial use.

The primary chilled water pump motor shall be replaced with a new inverter-duty rated motor and Variable Frequency Drive (VFD). The 3-way control valves on the four (4) air handlers shall be replaced with new 2-way modulating control valves.

JCI shall provide materials & labor required to install a complete new turn-key installation including all equipment and work. JCI shall implement/provide all equipment, systems, devices, & inspections and permits/drawings necessary to satisfy mechanical equipment room mechanical, electrical and fire codes. Install new chilled water 2-way control valves on the penthouse air handlers. Provide electrical service and mounting location for new VFD and motor as required.

JCI is responsible for all pump startup, checkout, & balance and final testing of system and any associated equipment. JCI will provide a final hydronic balance of the system upon completion of work.

The following modifications shall be done to each of the four (4) air handlers serving the City Hall and Police Headquarters building.

JCI shall provide materials & labor necessary to replace the condensate drain pans and drain piping for each air handler. Work shall be in accordance with appropriate industry codes and standards.

JCI shall provide a complete air balance of the system. This includes all necessary work at the system and at the diffuser level.

#### Infrastructure Improvement Measure # 6

**Office on Aging – West HVAC Replacements** 

The existing residential-type furnace and air conditioners shall be replaced with new York (or equivalent) high-efficiency units. The scope of work includes all items for a complete turn-key proposal, including the following:

Unit Tag	Existing	Proposed	New Outdoor Condenser (Y/N)	New NG Piping
Front Office	Electric Heat	Condensing NG Furnace	Y, 3-ton	Y
Transportation	Electric Heat	Condensing NG Furnace	Y, 2-ton	Y
Lake Erie Room	100K Btu NG	Non-Condensing NG Furnace	Y, 3-ton	N
Apt 1	45K Btu NG	Condensing NG Furnace	Y, 2-ton	N
Apt 2	45K Btu NG	Condensing NG Furnace	Y, 2-ton	N
Apt 3	45K Btu NG	Condensing NG Furnace	Y, 2-ton	N
Apt 4	45K Btu NG	Condensing NG Furnace	Y, 2-ton	N

Additionally, the packaged rooftop air handler serving the kitchen area shall be replaced with a unit to match existing roof curb.

JCI is responsible to provide, coordinate, & install the following unit installation items, to include, the replacement of the units, ductwork modifications, duct insulation, proper weather sealing of the unit and the provision of adequate condensate drainage. JCI shall be responsible for demolition, removal, & proper disposal of the existing units.

JCI shall reconnect all electrical power and gas as required per each unit. Provide new natural gas piping, for units as required, from the nearest available source.

JCI shall provide all flue piping and penetrations as required for new units.

Johnson Controls shall be advised if asbestos is encountered. The City will be responsible for removal.

The installation shall be warranted as to equipment and labor for one year after acceptance in writing for beneficial use.

#### Infrastructure Improvement Measure # 7

#### **Traffic Signs Shop HVAC Replacements**

The existing residential-type furnace and air conditioners shall be replaced with new York (or equivalent) high-efficiency units. The scope of work includes all items for a complete turn-key proposal, including the following:

Unit Tag	Existing	Proposed	New Outdoor Condenser (Y/N)	New NG Piping
Office NE	80K Btu NG	Condensing NG Furnace	Y, 3-ton	N
Office SE	Electric Heat	Condensing NG Furnace	Y, 3-ton	Y
Office W	100K Btu NG	Condensing NG Furnace	N	N

JCI is responsible to provide, coordinate, & install the following unit installation items, to include, the replacement of the units, ductwork modifications, duct insulation, proper weather sealing of the unit and the provision of adequate condensate drainage. JCI shall be responsible for demolition, removal, & proper disposal of the existing units.

JCI shall reconnect all electrical power and gas as required per each unit. Provide new natural gas piping, for units as required, from the nearest available source.

JCI shall provide all flue piping and penetrations as required for new units.

Johnson Controls shall be advised if asbestos is encountered. The City will be responsible for removal. The installation shall be warranted as to equipment and labor for one year after acceptance in writing for beneficial use.

Dated , 200 200 08

**CUSTOMER:** 

Signature: Differentle Printed Name: Ed F. tz Gerald of Lakeusod Title:

IOHNSON CONTROLS Signature: Printed Name:

Schedule 2

#### ASSURED PERFORMANCE GUARANTEE SCHEDULE

1. **DEFINITIONS.** The following terms are defined for purposes of this Schedule as follows:

**Project Benefits** are the Measured savings, cost avoidance &/or Billable Usage increases that occur in the Guarantee Term plus the Non-Measured savings, cost avoidance &/or Billable Usage increases achieved for that year as set forth in paragraph 3, Reconciliation, of this Schedule.

Annual Guaranteed Project Benefits are the portion of the Total Guaranteed Project Benefits to be achieved in any one year of the Guarantee Term, calculated and adjusted as set forth in this Schedule.

Annual Project Benefits are the Project Benefits achieved for any one year of this Agreement.

**Project Benefits Surplus** is the amount by which the Annual Project Benefits that exceed the Annual Guaranteed Project Benefits in any one-year of the Guarantee Term.

**Project Benefits Shortfall** is the amount by which the Annual Guaranteed Project Benefits exceeds the Annual Project Benefits in any one-year of the Guarantee Term.

Guarantee Term is the term of this Assured Performance Guarantee. As outlined in paragraph 2 of this Agreement, the Guarantee Term shall coincide with the term of Services and shall be 120 months from the Substantial Completion Date, unless terminated earlier.

**Installation Period** means the period between the Commencement Date and the first day of the month following the Substantial Completion Date. For purposes of the annual reconciliation, Project Benefits achieved during the Installation Period shall be considered Project Benefits achieved during the first year of the Guarantee Term.

Measured Project Benefits are achieved and calculated as set forth in paragraph 3, Reconciliation, of this Schedule. Non-Measured Project Benefits are the Project Benefits that have been agreed by the parties will be deemed achieved on the Substantial Completion Date and are set forth in Exhibit 2 of this Schedule. JCI and the Customer agree that Non-Measured Project Benefits may include, but are not limited to, future capital or operational costs avoided as a result of this Agreement. Customer agrees and acknowledges that JCI shall not be responsible for the achievement of such Project Benefits, as the actual realization of those Project Benefits is not within JCI's control. Customer acknowledges that it has evaluated sufficient information to believe that the Non-Measured Project Benefits will occur. As a result, Non-Measured Project Benefits shall not be measured or monitored at any time during the Guarantee Term, but rather shall be deemed achieved on the Substantial Completion Date.

Billable Usage Increases are the incremental increases in billable usage that occur as a result of guaranteed meter efficiency improvements as calculated in (Schedule 2, Exhibit 6) pursuant to billing information as provided by the Customer. Total Guaranteed Project Benefits are the Total Guaranteed Project Benefits to be achieved during the entire Guarantee Term, calculated and adjusted as set forth in this Schedule.

Total Project Benefits are the Project Benefits achieved during the entire term of this Agreement.

**Equipment** is the product(s) installed by JCI, its subcontractors and/or its agents as outlined in Schedule 1 (Scope of Work). Service is the scope of work provided by JCI, its subcontractors and/or its agents as outlined in Schedule 3 (Service)

## Schedule).

**Baseline** is the mutually agreed upon calculated figures and/or usage amounts that reflect existing conditions and assumptions as set forth in Schedule 2, Exhibit 6.

**GUARANTEE.** Subject to the terms and conditions of this Agreement, JCI guarantees that the Customer will achieve \$5,120,730 of Total Guarantee Project Benefits during the Term of the Agreement.

**RECONCILIATION.** Within 60 days after the Substantial Completion Date, or earlier if otherwise specified in this Performance Contract, JCI will calculate the Project Benefit achieved during the Installation Period and advise the Customer of the amount of such Project Benefits. The frequency and the methods of reconciliation to be used during the Guarantee Term have been approved by the Customer at the time that this Agreement was executed and are defined in the Exhibits attached to this Schedule. Except by mutual

agreement of the parties, no changes to the frequency or methods of reconciliation may be made during the Guarantee Term; but, if a utility providing energy to the Customer modifies its method of billing during the Guarantee Term, or if the Customer changes its utility suppliers or method of purchasing, JCI may, at its option, adjust the reconciliation methods to methods appropriate to the utility's revised method of billing.

Customer agrees and acknowledges that JCI shall not be responsible for the achievement of such Project Benefits, as the actual realization of those Project Benefits is not within JCI's control. Customer acknowledges that it has evaluated sufficient information to believe that the Non-Measured Project Benefits will occur. As a result, Non-Measured Project Benefits shall not be measured or monitored at any time during the Guarantee Term, but rather shall be deemed achieved on the Substantial Completion Date.

4. CHANGES IN USE. The Customer agrees to notify JCI, within five (5) business days, of any actual or intended change, whether before or during the Guarantee Term, in the use of any facility or equipment to which this Schedule applies, or of any other condition arising before or during the Guarantee Term, that reasonably could be expected to change the amount of Project Benefits to which this Schedule applies. Such a change or condition would include, but is not limited to: changes in the primary use of any facility; changes to the hours of operation of any facility; changes or modifications to the Equipment or Services provided under this Agreement; failure of the premises to meet local building codes; changes in utility suppliers, method of utility billing, or method of utility purchasing; improper maintenance of the Equipment or of any related equipment other than by JCI; changes to the equipment or to any facility required by changes to local building codes; or additions or deletions of equipment at any facility. Such a change or condition need not be identified in the Base Line in order to permit JCI to make an adjustment.

Upon receipt of such notice, or if JCI independently learns of any such change or condition, JCI shall calculate and send to the Customer a notice of adjustment to the Base Line to reflect the impact of such change or condition, and the adjustment shall become effective as of the date that the change or condition first arose. Should the Customer fail to provide JCI with notice of any such change or condition, JCI may make reasonable estimates as to the impact of such change or condition and as to the date on which such change or condition first arose in calculating the impact of such change or condition, and such estimates shall be conclusive. **PROJECT BENEFIT SURPLUSES OR SHORTFALLS**. If the Annual Project Benefits during a specific year of the 5. Guarantee Term, plus amounts credited from surpluses in the Installation Period and earlier years of the Guarantee Term, are less than the Annual Guaranteed Project Benefits for that year, JCI may apply the difference against any unpaid balances from the Customer then existing under the Agreement. If there are any remaining amounts, JCI may, where permitted by law, (a) carry over the difference to the next year of the Performance Contract so as to increase the Annual Guaranteed Project Benefits in that year or (b) at the Customer's written election, pay the Customer any remaining Project Benefit shortfalls, however JCI reserves the right to bill Customer for these Project Benefit shortfall payments should subsequent years of the Agreement yield Project Benefit surpluses. Upon the mutual agreement of the parties, JCI may also provide additional products or services, in the value of the shortfall, at no additional cost to the Customer. Where Project Benefit shortfalls have occurred, JCI reserves the right, subject to the approval of the Customer, which shall not be unreasonably withheld, to implement additional operational improvements or conservation measures, at no cost to the Customer, that will generate additional Project Benefits in future years of the Guarantee Term. Such payment or credit shall be the sole and exclusive remedy of the Customer for any failure by JCI to achieve guaranteed Project Benefits under this Agreement, including any alleged breach of any other express or implied warranty of Project Benefits. JCI may credit any Project

Benefit Surplus, in whole or in part, toward the Annual Guaranteed Project Benefits in any future year of the Guarantee Term.

The following Exhibits are attached and made part of this Schedule:

- Exhibit 1 Annual Reconciliation & Guaranteed Project Benefit Allocation
- Exhibit 2 Non-Measured Project Benefits
- Exhibit 3 Responsibilities of JCI and Customer
- Exhibit 4 Unit Utility Rates and Costs
- Exhibit 5 Primary Operations Schedules Pre & Post Retrofit
- Exhibit 6 Calculation of Base Line and Project Benefits
- Exhibit 7 Energy Base Lines

FEMP or IPMVP Option A

		Operations &		Total Guaranteed
		Maintenance Cost	1	Project Benefits
Year	Utility Cost	Avoidance	Cost Avoidance	
	Avoidance			
1	\$202,920	\$63,037	\$180,727	\$446,684
2	\$209,007	\$64,928	\$186,149	\$460,084
3	\$215,277	\$66,876	\$191,733	\$473,887
4	\$221,736	\$68,882	\$197,485	\$488,104
5	\$228,388	\$70,949	\$203,410	\$502,747
6	\$235,240	\$73,077	\$209,512	\$517,829
7	\$242,297	\$75,269	\$215,798	\$533,364
8	\$249,566	\$77,528	\$222,272	\$549,365
9	\$257,053	\$79,853	\$228,940	\$565,846
10	\$264,764	\$82,249	\$235,808	\$582,821
Totals	\$2,326,247	\$722,649	\$2,071,835	\$5,120,730

#### **ANNUAL RECONCILIATION & GUARANTEED PROJECT BENEFIT ALLOCATION**

\* The term of the Assured Performance Guarantee (as seen above) shall coincide with the term of the Services Schedule (see Schedule 3). If for any reason, the Customer cancels or breaches this Agreement, including but not limited to the Service Schedule, the Assured Performance Guarantee shall automatically terminate.

**CUSTOMER:** 

Initials:

#### **Non-Measured Project Benefits**

The Project Benefits identified below shall be Non-Mea sured Project Benefits (as defined above) under this Schedule. The amount of the Non-Measured Project Benefits shall be deemed to increase during each year of the Guarantee Term by the escalation percentages set forth below.

Source of Non-Measured Project Benefits	First Year Project Benefits	Escalation
<b>Operations &amp; Maintenance Cost Avoidance</b>	\$63,037	3%
Future Capital Cost Avoidance	\$180,727	3%
Non-Measured Energy Avoidance	\$45,385	3%
TOTAL NON-MEASURED PROJECT BENEFITS	\$289,149	

Dated , 200.

**CUSTOMER:** 

Signature: Ed Fitzbevald

JOHNSON CONTROLS, INC Signature: Printed Name:

JOHNSON CONTROLS, INC. Initials:

Schedule 2 Exhibit 2

## Exhibit 3 ·

## **Responsibilities of JCI and Customer**

This Exhibit details the individual responsibilities of JCI and of the Customer, not otherwise set forth in this Performance Contract, in connection with the management and administration of the Assured Performance Guarantee.

JCI Responsibilities	Customer Responsibilities
JCI will provide the Customer with performance assurance services to support the calculated savings and guarantee.	Provide access to areas required to perform service, including escorting JCI personnel if needed.
	City will maintain the above lighting retrofit using the same lamps and ballast's that were installed or equivalent lamps and ballast's approved by JCI
JCI will provide training for operation of the installed systems to the Customer.	

**CUSTOMER:** 

Initials:

Schedule 2 Exhibit 4

## **Unit Utility Rates and Costs**

The unit energy costs by month for Base year of the Guarantee are set forth below and shall be used for all calculations made under this Schedule.

Facility		Facility	Blended \$/kWh
City Hall	\$14.79	City Hall	\$0.10
Youth Services	\$15.04	Youth Services	\$0.13
Service Garage	\$14.79	Service Garage	\$0.14
Fire Station #3	\$14.63	Fire Station #3	\$0.12
Fire Station #1	\$15.00	Fire Station #1	\$0.10
Fire Station #2	\$16.12	Fire Station #2	\$0.13
Madison Park	\$14.85	Madison Park	\$0.29
Madison Park Pool	\$12.62	Madison Park Pool	\$0.17
Office on Aging - West	\$14.91	Office on Aging - West	\$0.11
Traffic Signals Shop	\$13.27	Traffic Signals Shop	\$0.13
MUG	\$15.03	MUG	\$0.12
Lakewood Park	\$13.83	Lakewood Park	\$0.11
City Hall Annex	\$15.52	City Hall Annex	\$0.13

JOHNSON\_CONTROLS, INC. Initials:

Animal Shelter*	\$15.04	Animal Shelter*	\$0.13
Refuse Facilities*	\$14.79	Refuse Facilities*	\$0.14
Waste Water Treatment Plant*	\$14.79	Waste Water Treatment Plant*	\$0.14
Winterhurst Ice Rink	\$9.91	Winterhurst Ice Rink	\$0.10

#### % Annual Energy Costs Increase

The following table identifies the percentage increases that will be made to the amounts in the table for each succeeding year of the Guarantee.

Year	Electric	Natural Gas
1	3%	3%
2	3%	3%
3	3%	3%
4	3%	3%
5	3%	3%
6	3%	3%
7	3%	3%
8	3%	3%
9	3%	3%
10	3%	3%

CUSTOMER:

Initials:

Schedule 2

## JOHNSON CONTROLS, INC.

Initials:

# Exhibit 5

## **Primary Operations Schedules Pre & Post Retrofit**

Animal Shelter, Office on Aging West, Refuse Facility, Traffic Signals Shop, Youth Services, Public Works Service Garage, Municipal Utilities Garage

	Lighting			HVAC
	Time On	Time Off	Time On	Time Off
Monday	8:00 AM	5:00 PM	24 Hrs.	
Tuesday	8:00 AM	5:00 PM	24 Hrs.	
Wednesday	8:00 AM	5:00 PM	24 Hrs.	
Thursday	8:00 AM	5:00 PM	24 Hrs.	

Friday	8:00 AM	5:00 PM	24 Hrs.	
Saturday	Off		24 Hrs.	
Sunday	Off		24 Hrs.	
Holidays	Off		24 Hrs.	

Minimum room temperature during heating season: \_\_\_68\_\_\_ to \_\_\_\_72\_\_\_ degrees F

Heating season is October to <u>April</u> Maximum room temperature during cooling season: 72 \_\_\_ to \_\_\_\_76\_\_\_\_ degrees F

Cooling season is <u>April</u> to Post-Retrofit Facility/area October

	Lighting			HVAC
	Time On	Time Off	Time On	Time Off
Monday	8:00 AM	5:00 PM	24 Hrs.	
Tuesday	8:00 AM	5:00 PM	24 Hrs.	
Wednesday	8:00 AM	5:00 PM	24 Hrs.	
Thursday	8:00 AM	5:00 PM	24 Hrs.	<u> </u>
Friday	8:00 AM	5:00 PM	24 Hrs.	
Saturday	Off		24 Hrs.	
Sunday	Off		24 Hrs.	
Holidays	Off		24 Hrs.	

Minimum room temperature during heating season: \_\_68\_\_ to \_\_\_72\_\_ degrees F Heating season is <u>October</u> to <u>April</u> Maximum room temperature during cooling season: <u>April</u> \_ to \_\_\_\_76\_\_\_\_ degrees F Cooling season is <u>April</u> to October

Fire Station #1, #2, #3 Lighting HVAC Time On Time Off Time On Time Off Monday 24 Hrs. 24 Hrs. Tuesday 24 Hrs. 24 Hrs. Wednesday 24 Hrs. 24 Hrs. 24 Hrs. Thursday 24 Hrs. Friday 24 Hrs. 24 Hrs. Saturday 24 Hrs. 24 Hrs. Sunday 24 Hrs. 24 Hrs.

Holidays	24 Hrs.	24 Hrs.	

Minimum room temperature during heating season: \_\_68\_\_ to \_\_\_\_72\_\_\_ degrees F

Heating season is <u>October</u> to <u>April</u> Maximum room temperature during cooling season: to \_\_\_\_76\_\_\_\_ degrees F 72 Cooling season is <u>April</u> October

\_\_\_ to Post-Retrofit Facility/area

	Lighting			HVAC
	Time On	Time Off	Time On	Time Off
Monday	24 Hrs.		24 Hrs.	
Tuesday	24 Hrs.		24 Hrs.	
Wednesday	24 Hrs.		24 Hrs.	
Thursday	24 Hrs.		24 Hrs.	
Friday	24 Hrs.		24 Hrs.	
Saturday	24 Hrs.		24 Hrs.	
Sunday	24 Hrs.		24 Hrs.	
Holidays	24 Hrs.	<u></u>	24 Hrs.	

Minimum room temperature during heating season: \_\_68\_\_ to \_\_\_\_72\_\_ degrees F Heating season is October to <u>April</u> Maximum room temperature during cooling season: 72 \_\_\_76\_\_\_\_ degrees F to \_ Cooling season is April to October\_

#### City Hall, Madison Park, Lakewood Park

	Lighting			HVAC
	Time On	Time Off	Time On	Time Off
Monday	7:00 AM	8:00 PM	24 Hrs.	
Tuesday	7:00 AM	8:00 PM	24 Hrs.	
Wednesday	7:00 AM	8:00 PM	24 Hrs.	
Thursday	7:00 AM	8:00 PM	24 Hrs.	
Friday	7:00 AM	8:00 PM	24 Hrs.	
Saturday	7:00 AM	12:00 PM	24 Hrs.	
Sunday	Off		24 Hrs.	
Holidays	Off		24 Hrs.	

Minimum room temperature during heating season: \_\_\_68\_\_ to \_\_\_\_72\_\_ degrees F Heating season is October \_\_\_\_\_ to <u>April</u> 72 \_\_ to \_\_\_\_76\_\_\_\_ degrees F Maximum room temperature during cooling season: Cooling season is <u>April</u> to <u>Post-Retrofit Facility/area</u> October

		Lighting		HVAC
	Time On	Time Off	Time On	Time Off
Monday	7:00 AM	8:00 PM	7:00 AM	8:00 PM
Tuesday	7:00 AM	8:00 PM	7:00 AM	8:00 PM
Wednesday	7:00 AM	8:00 PM	7:00 AM	8:00 PM
Thursday	7:00 AM	8:00 PM	7:00 AM	8:00 PM
Friday	7:00 AM	8:00 PM	7:00 AM	8:00 PM
Saturday	7:00 AM	12:00 PM	7:00 AM	12:00 PM
Sunday	Off		24 Hrs.	
Holidays	Off		24 Hrs.	

\_\_\_68\_\_ to \_\_\_\_72\_\_ degrees F Minimum room temperature during heating season: Heating season is October <u>April</u>

Heating season is <u>October</u> to <u>April</u> Maximum room temperature during cooling season: 72 \_ to \_\_\_\_76\_\_\_\_ degrees F <u>October</u> Cooling season is April to

Winterhurst Ice Rink

	Lighting			HVAC
	Time On	Time Off	Time On	Time Off
Monday	7:00 AM	9:00 PM	24 Hrs.	
Tuesday	7:00 AM	9:00 PM	24 Hrs.	
Wednesday	7:00 AM	9:00 PM	24 Hrs.	
Thursday	7:00 AM	9:00 PM	24 Hrs.	
Friday	7:00 AM	9:00 PM	24 Hrs.	
Saturday	7:00 AM	9:00 PM	24 Hrs.	
Sunday	7:00 AM	9:00 PM	24 Hrs.	
Holidays	Off		24 Hrs.	

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Minimum room temperature during heating season: \_\_68\_\_ to \_\_\_72\_\_ degrees F Heating season is October to April Maximum room temperature during cooling season: \_\_\_ to \_\_\_\_76\_\_\_\_ degrees F 72 Cooling season is April to October

Post-Retrofit Facility/area

	Lighting		HVAC		
	Time On	Time Off	Time On	Time Off	
Monday	7:00 AM	9:00 PM	7:00 AM	9:00 PM	
Tuesday	7:00 AM	9:00 PM	7:00 AM	9:00 PM	
Wednesday	7:00 AM	9:00 PM	7:00 AM	9:00 PM	
Thursday	7:00 AM	9:00 PM	7:00 AM	9:00 PM	
Friday	7:00 AM	9:00 PM	7:00 AM	9:00 PM	
Saturday	7:00 AM	9:00 PM	7:00 AM	9:00 PM	
Sunday	7:00 AM	9:00 PM	7:00 AM	9:00 PM	
Holidays	Off		24 Hrs.		

Minimum room temperature during heating season: \_68\_\_\_ to \_\_\_\_72 \_\_\_ degrees F Heating season is October to April Maximum room temperature during cooling season: to 76 degrees F Cooling season is April to October

**CUSTOMER:** 

Initials:

JOHNSON CONTROLS, INC.

Initials: FEMP or IPMVP

**Option** A

**Partially Measured Retrofit Isolation** 

Project Benefits are determined by partial field measurement of the energy use of the system(s) to which an improvement measure was applied, separate from the energy use of the rest of the facility. Measurements will be short-term with only one-time measurements in the pre & post-retrofit installation period.

Partial measurement means that some but not all parameter(s) will be Non-Measured. Careful review of improvement measure design and installation will ensure that Non-Measured values fairly represent the probable actual value. Stipulations will be shown in the M&V Plan along with analysis of the significance of the error they may introduce.

Engineering calculations using short-term pre & post-retrofit measurements and stipulations. The finding of these pre & post-retrofit measurements calculations of Project Benefits will then be Non-Measured for the life of the contract.

Performance and Operation Factors: Savings are based on a combination of measured and mutually agreed upon factors. Measurements are spot or short-term taken at the component or system level. The mutually agreed upon factors are supported by historical or manufacturer's data.

Savings Calculation: Savings are derived using engineering calculations, component, or system models.

Calculation of Benchmark and Performance Savings

**Determination of Average Utility Rates:** 

Johnson Controls will determine the Blended Electrical Energy Rate (BER) according to the following formula:

FORMULA 1

BER = TKC<sub>1-12</sub> ÷ kWh<sub>1-12</sub>

Where:

BER : Blended Electrical Energy Rate (Dollars per kWh) TKC<sub>1,12</sub>: Sum Total of Monthly kWh and kW Costs (Dollars) including Fuel Adjustment Cost and other related Energy Charges for Months 1 Through 12 kWh<sub>1,12</sub>: Sum Total of Monthly Electricity Use (kWh) for Months 1 Through 12

Johnson Controls will determine the Average Electrical Energy Rate (AER) according to the following formula:

FORMULA 2

 $\overrightarrow{AER} = TKC_{1-12} \div kWh_{1-12}$ Where: AER : Average Electrical Energy Rate (Dollars per kWh) TKC<sub>1-12</sub>: Sum Total of Monthly kWh Costs (Dollars) including Fuel Adjustment Cost and other related Energy Charges for Months 1 Through 12 kWh, ,;: Sum Total of Monthly Electricity Use (kWh) for Months 1 Through 12

Johnson Controls will determine the Natural Gas Fuel Rate (NGR) for the duration of the contract based on the following formula:

	<i>FORMULA 3</i>	
$NGR^* = TGC$	$C_{1-12} \div TGU_{1-12}$	
Where:		
NGR:	Natural Gas fuel rate (\$/Mcf)	
TGC <sub>1-12</sub> :	Sum total of monthly natural gas costs (\$)	
TGU <sub>1-12</sub> :	Sum total of monthly natural gas usage for months 1-12 (Mcf)	

\*The annual calculated NGR shall never drop below the floor rate as defined in Schedule 2, Exhibit 4 of this document. In the event that they do, the floor rates will be substituted for the annual calculated rate.

Performance Measurement for all Lighting Measures **Buildings Impacted:** 

## City-Wide **Pre-Installation Verification**

The baseline data is determined using:

Occupancy hours of each building as defined in Schedule 2, Exhibit 5.

Surveys of actual lighting usage (line-by-line audit).

Data-loggers applied in most locations to determine lighting hours vs. occupied hours

Johnson Controls determined the power (kilo-watts) of the various existing fixtures from lamp and ballast manufacturer's published data.

Johnson Controls will then determine Existing Annual Electrical Cost (EAEC) for the existing lighting system according to the following formula:

## FORMULA 4

EAEC =	{EFWi * ABH * BER}
Where:	
EAEC:	Existing annual electrical cost for the existing lighting system (\$/yr)
EFWi:	The sum of the existing fixture kW for all existing fixture types (kW)
ABH:	Annual burn hours as defined in Schedule 2, Exhibit 5
BER:	Blended Electrical energy rate (\$/kWh)

The savings for these measures are summarized in the following table:

Facility	Electrical Savings kWh/Year	Fuel Savings Mcf/Year
City-Wide	865,246	0

#### **Post-Installation Verification**

At the completion of each building under the project scope, Johnson Controls will calculate post retrofit power (kilo-watt) consumption and demand from actual as-built fixture quantities, and, catalog data on the retrofit system as installed. This information will be used to determine post installation energy consumption.

Johnson Controls will then determine New Annual Electrical Cost (NAEC) for the new lighting system according to the following formula:

#### FORMULA 5

NAEC =	{NFWi * ABH * BER}
Where:	
NAEC:	New annual electrical cost for the new lighting system (\$)
NFWi:	The sum of the new fixture kW for all new fixture types (kW)
ABH:	Annual burn hours as defined in Schedule 2, Exhibit 5
BER:	Blended Electrical energy rate (\$/kWh)

#### **Calculation of Savings**

Johnson Controls will determine net annual savings result ing from the Lighting Energy Conservation Measures according to the following formula:

## FORMULA 6

NAS =	EAEC – NAEC	
Where:		
NAS:	Net annual savings (\$/yr)	
	Existing annual electrical cost (\$/yr)	
NAEC:	New annual electrical cost (\$/yr)	

# Performance Measurement for Building Automation Retrofit:

Buildings Impacted: City Hall, Winterhurst Ice Rink

## **Pre-Installation Verification**

The energy consumption of each of the buildings utilizing their current control system was accurately determined during the Johnson Controls' site assessment. Using industry standard calculation methodology and building modeling, the potential savings of the building automation system (BAS) were accurately calculated.

The BAS control strategies to be implemented include: Provision for Night Setback

The savings for these measures are summarized in the following table:

Facility	Electrical Savings kWh/Year	Fuel Savings Mcf/Year
City Hall, Winterhurst Ice rink	330,570	1,531

### Post Installation Verification

The BAS installations will be verified to be complete through Johnson Controls' commissioning process. Newly installed equipment will be tested for proper operation and performance to specifications.

If the as-built performance of the BAS system meets design criteria, the savings as indicated in the table above will be used for savings calculations. If differences occur between the as-built conditions and the design, the as-built conditions will be input into the spreadsheets and savings will be re-calculated.

### **Calculation of Savings**

The net annual savings will be calculated as follows:

FORMULA 7

NAS =	AES * BER + AFFS * NGR	
Where:		
NAS:	Net annual savings (\$/yr)	
AES:	Annual Electrical Savings (kWh/yr)	
BER :	Blended Electric Rate	
AFFS:	Annual fossil fuel savings (Mcf/yr)	
NGR:	Natural Gas fuel rate (\$/Mcf)	

Performance Measurement for Building Envelope Improvements Buildings Impacted: City-Wide

### **Pre-Installation Verification**

The magnitude of the air infiltration in each of the buildings was accurately determined during Johnson Controls' site assessment. Using industry standard calculation methodology, the potential savings of the applicable building envelope improvements were accurately calculated.

The savings for these measures are summarized in the following table:

Building	Electrical Savings kWh/Year	Fuel Savings Mcf/Year
City-Wide	· 0	1,758

# **Post Installation Verification**

The efficacy and proper installation of the air barriers will be verified through Johnson Controls' commissioning process. If differences occur between the as-built conditions and the design, the as-built conditions will be input into the calculations and savings will be re-calculated.

## **Calculation of Savings**

The net annual savings will be calculated as follows:

#### FORMULA 8

NAS =	AFFS * NGR + BER * AECS
Where:	
NAS:	Net annual savings (\$/yr)
AFFS:	Annual fossil fuel savings (Mcf/yr)
NGR:	Natural Gas rate (\$/Mcf)
BER =	Blended Electrical energy rate (\$/kWh)
AECS =	Annual Electrical Consumption Savings(kWh/Yr)

# **Performance Measurement for Misc. Measures:**

Projects: Winterhurst Rooftop Unit Replacement City Hall Chiller Replacement and HVAC Upgrades Office of Aging – West HVAC Replacements Traffic / Signs HVAC Replacements **Pre-Installation Verification** 

The energy consumption of all systems was determined during Johnson Controls' site assessment. Using industry standard calculation methodology, the potential savings of the following measures were calculated with the intention that these energy conservation measures are primarily directed toward maintenance replacement upgrades.

The annual savings for these measures are summarized in the following table:

Building/Area	Measure	Electrical Consumption Savings (kWh)	Fuel Consumption (MCF)
Winterhurst Rooftop Unit Replacement	Replacement/Retrofit	201,193	354
City Hall Chiller Replacement and HVAC Upgrades	Replacement/Retrofit	129,225	0
Office of Aging – West HVAC Replacements	Replacement/Retrofit	10,439	84
Traffic / Signs HVAC Replacements	Replacement/Retrofit	3,914	65
Totals:		344,771	503

#### **Post Installation Verification**

If the as-built performances of these measures match those in the spreadsheet analysis, savings generated by the spreadsheet analysis will be used for calculations. If differences occur between the as-built conditions and the design, the as-built conditions will be input into the spreadsheet analysis and savings will be re-calculated.

#### **Calculation of Savings**

The net annual savings will be calculated as follows: *FORMULA 9* 

NAS =	AECS * EER + NGS*AFFR
Where:	
NAS:	Net annual savings (\$/yr)
AECS:	Annual Electrical Consumption Savings (kWh/yr)
EER::	Electrical Energy Rate (\$/kWh)
NGS:	Natural Gas Savings
AFFR	Average Fossil Fuel Rate (\$/MCF))

Schedule 2 Exhibit 7

Facility	Annual Consumption (MCF)	Annual Consumption (kWh)
City Hall	4,915	1,146,188
Youth Services	238	25,491
Service Garage	2,193	89,258
Fire Station #3	888	128,380
Fire Station #1	1,858	249,440
Fire Station #2	483	60,448
Madison Park	525	25,654
Madison Park Pool	1,472	55,995
Office on Aging - West	407	266,720
Traffic Signals Shop	1,026	51,920
MUG	1,162	181,040
Lakewood Park	2,422	308,130
City Hall Annex	117	90,309
Animal Shelter*	125	27,371
Refuse Facilities*	1,339	54,496
Waste Water Treatment Plant*	2,065	84,047
Winterhurst Ice Rink	9,761	1,873,320

## **Baseline**(s)

\* Utility bills were not available for the Animal Shelter, Refuse Facilities, and Waste Water Treatment Plant. Utilities for these facilities were estimated, based on square-footage and use.

**CUSTOMER:** 

Initials:

Dated , 200.

**CUSTOMER:** 

Signature:

10 This Journe

CONTROLS, INC. JOHNSON Initials:

JOHNSON CONTROLS, IN Signature:

Printed Name: Ed Fitzberald Title: Mayor of Lakercod

Printed Name: RICADED W With Title: FUELIC SECTOR MAR

#### SERVICES SCHEDULE

1. **SCOPE OF SERVICE.** JCI and the Customer agree that the services checked below will be provided by JCI at the Customer's facility.

Primary Air Conditioning Equipment (PRIME) Primary Air Conditioning Equipment (Basic) Fire Detection and Management Systems (Premium) Fire Detection and Management Systems (Basic) Facility Operations Reciprocating Air Conditioning Equipment (Premium) Reciprocating Air Conditioning Equipment (Basic) Associated Air Conditioning and Heating Covered Equipment (Premium) Associated Air Conditioning and Heating Covered Equipment (Basic) Maintenance Management Services Primary Heating Covered Equipment (Premium) Primary Heating Covered Equipment (Basic) Automatic Temperature Controls (Premium) Automatic Temperature Controls (Basic) Training Facility Management Systems (Premium) Facility Management Systems (Basic) Security Management Systems (Premium) Security Management Systems (Basic) Performance Contract Reporting Services Performance Consulting Service **Energy System Management Services** 

2. EXTENDED SERVICE OPTIONS FOR PREMIUM AND PRIME COVERAGES. On-site repair services will be provided during JCI's normal business hours, unless one of the following options is checked:

24-5 Extended Service--JCI will provide on-site response 24 hours a day, 5 days a week (Monday thru Friday, except JCI holidays)

24-7 Extended Service--JCI will provide on-site response 24 hours a day, 7 days a week (including holidays)

3. **DEFINITIONS**. The terms used in this Services Schedule shall be defined as follows:

(a) **COVERED EQUIPMENT** means the equipment for which services are to be provided under this Services Schedule and installed under Schedule 1 and any other Covered Equipment Lists attached to this Services Schedule.

(b) **EQUIPMENT FAILURE** means the sudden and accidental failure of moving parts or electric or electronic components that are part of the Covered Equipment and that are necessary for its operation.

(c) **SCHEDULED SERVICE VISITS** include labor required to perform inspections and preventive maintenance on Covered Equipment.

(d) **SCHEDULED SERVICE MATERIALS** include materials required to perform Scheduled Service Visits on Covered Equipment.

(e) **REPAIR LABOR** includes labor necessary to restore Covered Equipment to working condition following an equipment failure and excludes total equipment replacement due to obsolescence or unavailability of parts.

(f) **REPAIR MATERIALS** include materials necessary to restore Covered Equipment to working condition following an equipment failure and excludes total equipment replacement due to obsolescence or unavailability of parts. At JCI's option, Repair Materials may be new, used, or reconditioned. All Repair Materials are covered by the warranty as described below.

(g) **BASIC COVERAGE** includes Scheduled Service Visits, plus Scheduled Service Materials if otherwise noted in this Services Schedule, for Covered Equipment.

(h) **PREMIUM LEVEL COVERAGE** includes BASIC COVERAGE as well as Repair Labor, plus Repair Material if otherwise noted in this Services Schedule, for Covered Equipment.

(i) **EXTENDED SERVICE** includes extended service for repairs and is available only if Customer has PREMIUM or PRIME coverage. The price for Extended Service, if chosen by Customer, is part of the total price Customer will pay. Should a defect be found during an Extended Service visit that JCI is not responsible for under this Services Schedule; Customer agrees to pay JCI's standard fee for any services rendered. Should Repair Labor or Repair Materials be performed in periods beyond the Extended Service period, Customer agrees to pay JCI's standard fee for any services rendered beyond the Extended Service period. PRIME LEVEL COVERAGE includes BASIC COVERAGE as well as Repair Labor, plus Repair Materials if otherwise set forth in this Services Schedule, for Covered Equipment consisting of centrifugal, absorption, or screw chillers. PRIME LEVEL COVERAGE also includes Repair Labor, and Repair Materials if otherwise set forth in this Services Schedule, for diagnosed imminent equipment failure as well as actual equipment Failure, and the following:

(i) JCI will analyze diagnostic tests including Pre-Vue Vibration Analysis and spectrochemical oil analysis megohm readings. All diagnostic tests must be performed at JCI-prescribed frequencies and to JCI-specified test standards. Coverage will include Repair Labor and Repair Material for heat exchanger tubes if an Eddy Current Analysis, acceptable to JCI, has been performed in the three years prior to this Services Agreement Schedule and is provided to JCI, or such a test will be performed as part of this Services Agreement Schedule.

(ii) Should JCI's analysis suggest the existence or the possibility of equipment deterioration outside anticipated or acceptable conditions, JCI may at its option take corrective steps necessary to prevent further deterioration or breakdown of the Covered Equipment. JCI retains sole judgment over whether equipment conditions are considered acceptable, whether corrective steps should be taken, or what steps, if any, need to be taken. Performance of any corrective steps under this PRIME coverage is not a guarantee that equipment failure or downtime will not occur.

(j) **EXTENDED SERVICE** includes extended service for repairs and is available only if Customer has PREMIUM or PRIME coverage. The price for Extended Service, if chosen by Customer, is part of the total price Customer will pay. Should a defect be found during an Extended Service visit that JCI is not responsible for under this Services Schedule; Customer agrees to pay JCI's standard fee for any services rendered. Should Repair Labor or Repair Materials be provided in periods beyond the Extended Service period, Customer agrees to pay JCI's standard fee for any services rendered beyond the Extended Service period.

4. INITIAL EQUIPMENT INSPECTION FOR PREMIUM OR PRIME

**COVERAGES.** JCI will inspect the Covered Equipment within 45 days of the date of this Services Schedule or as seasonal or operational conditions permit. JCI will advise Customer if JCI finds any

Covered Equipment not in working order or in need of repair. With the Customer's approval, JCI will perform the work necessary to put the Covered Equipment in proper working condition. To the extent that Covered Equipment is not subject to warranty or other obligation of JCI for its repair, this work will be done at JCI's standard fee for parts and labor in effect at that time. If the Customer does not want JCI to do the work identified by JCI, or if Customer does not have the work done, the Covered Equipment will be removed from the list of Covered Equipment and the price of this Services Schedule will then be adjusted.

**CUSTOMER OBLIGATIONS AND COMMITMENTS TO JCI.** The Customer warrants that, to the best of Customer's knowledge, all Covered Equipment is in good working condition and the Customer has given JCI all information of which Customer is aware concerning the condition of the Covered Equipment. The Customer agrees that, during the term of this Services Schedule, the Customer will:

(a) operate the Covered Equipment according to the manufacturer's recommendations;

(b) keep accurate and current work logs and information on the Covered Equipment as recommended by the manufacturer;

(c) provide an adequate environment for Covered Equipment as recommended by the manufacturer or as recommended by JCI, including adequate space, electrical power, air conditioning, and humidity control;
 (d) notify JCI immediately of any Covered Equipment malfunction, breakdown, or other condition affecting the operation of the Covered Equipment;

(e) allow JCI to start and stop, periodically turn off, or otherwise change or temporarily suspend equipment operations so that JCI can perform the services required under this Services Schedule; and
 (f) provide proper condenser and boiler water treatment, as necessary, for the proper functioning of Covered Equipment, if such services are not JCI's responsibility under this Services Agreement Schedule.

The Customer acknowledges that its failure to meet these obligations will relieve JCI of any responsibility for any breakdown, or any necessary repair or replacement, of any Covered Equipment and may require adjustments under Schedule 2, Assured Performance Guarantee Schedule.

6. CHANGES TO COVERED EQUIPMENT. To the extent permitted under the Performance Contract, the Customer retains the right to make changes or alterations to the Covered Equipment. If, in JCI's opinion, such changes or alterations substantially affect JCI's services or obligations, JCI shall have the right to make appropriate changes to the scope or to the price of this Services Schedule or to both.

7. ACCESS. The Customer will give JCI full access to all equipment that is either Covered Equipment or associated with it when JCI requests such access. If access cannot be provided, JCI's obligations under this Services Schedule will be suspended until such access to the equipment is provided. Matters affecting JCI's access to the equipment may include, but are not limited to, the removal, replacement, repair, refinishing, restoration, reconstruction, or other remedial actions taken by the Customer with respect to Covered Equipment or to the Customer's facility. Suspension of JCI's duties for this reason will not cancel or suspend any of the Customer's obligations under this Services Schedule.

**EXCLUSIONS**. JCI's services under this Services Agreement Schedule do not include:

(a) supplies, accessories, or any items normally consumed during the use of Covered Equipment, such as ribbons, bulbs, and paper;

(b) calls resulting from lack of operator-level preventive maintenance, site-related problems, or operator error;

(c) service calls due to failures resulting from acts of God, abuse or misuse of Covered Equipment, or alterations, modifications, or repairs to Covered Equipment not performed or provided by JCI;

(d) the furnishing of materials and supplies for painting or refinishing Covered Equipment;

(e) electrical work to the Customer's facility necessary because of Covered Equipment;

(f) service calls resulting from attachments made to Covered Equipment or other equipment not covered by this Services Schedule;

(g) the repair or replacement of ductwork, casings, cabinets, structural supports, tower fill/slats/basin, hydronic and pneumatic piping, and vessels, gaskets, and piping not normally replaced or maintained on a scheduled basis, and removal of oil from pneumatic piping;

(h) service calls resulting from the effects of erosion, corrosion, acid cleaning, or damage from unexpected or especially severe freezing weather that is beyond what is prevented by JCI's normal maintenance;

(i) work caused by any operation of, adjustments to, or repair to, Covered Equipment by others not authorized in advance by JCI;

(j) work caused by the negligence of others, including but not limited t o equipment operators and water treatment companies;

(k) service calls due to failures caused by improper environmental conditions affecting Covered Equipment or electrical power fluctuations, if due to conditions beyond JCI's control, and service calls required because JCI had previously been denied access to the Covered Equipment; and

disposal of hazardous wastes. Hazardous wastes remain the property and the responsibility of the Customer even when removed from equipment or replaced by JCI as provided by the terms of this Services Schedule. The Customer shall be responsible for the proper storage and disposal of hazardous wastes. This includes, but is not limited to, used oil, contaminated or uncontaminated refrigerant, and PCBs.

Price. The total price for JCI's Services during the Term of this Service Schedule is \$0.00.

This amount will be paid to JCI in monthly/quarterly/annual installments as shown below or on the attached chart.

These payments will be due and payable when the Customer received JCI's invoice and in advance of the services

JCI is to provide.

Dated, 200. 5 3 12

**CUSTOMER:** 

Signature: Church Stiplenall Printed Name: Edward FitzGevald

Mayor of Lakewood Title:

JOHNSON CONTROLS, INC.
Signature:
Richors W. Witte
Printed Name:
Title: RDUC SECTOR MR

Schedule 4A

#### PRICE AND PAYMENT TERMS SCHEDULE

The Customer shall make payments to JCI for Work performed, as well as payments for Services rendered pursuant to the Services Schedule.

4 (a) The price to be paid by the Customer for the Work shall be: Three Million Three Hundred Thousand <u>\$3,300,000</u>. Progress payments (including payment for materials delivered to JCI and work performed on and off-site) shall be made to JCI as follows:

First payment due: 25% Invoiced at Commencement Progress payments due monthly thereafter

Final payment, constituting the entire unpaid balance for the Work, shall be made to JCI within 30 days after the Substantial Completion Date. Payments may be withheld on account of any breach of this Agreement by JCI and claims by third parties (including JCI subcontractors and material suppliers), but only to the extent that written notice has been provided to JCI and JCI has failed, within ten days of the date of receipt of such notice, to provide adequate security to protect Customer from any loss, cost, or expense related to such claims.

4 (b) The total price for JCI's Services during the Term of this Agreement is \$0.00. This amount will be paid to JCI in monthly/quarterly/annual installments of \$0.00 as shown below or on the attached chart. These payments will be due and payable when the Customer receives JCI's invoice and in advance of the services JCI is to provide and shall be made throughout the Service Term.

Monthly amount due: \$ n/a Due Date: n/a First payment due: n/a

Lakewood

2. CUSTOMER PURCHASE ORDERS. The Customer acknowledges and agrees that any purchase order issued by Customer, in accordance with this Agreement, is intended only to establish payment authority for the Customer's internal accounting purposes. No purchase order shall be considered to be a counteroffer, amendment, modification, or other revision to the terms of this Agreement. No term or condition included in the Customer's purchase order will have any force or effect.

Dated . 2008.

**CUSTOMER:** 

Swand Fitzgerald Signature:

Printed Name: Edward FitzGerald

Title: Mayor of

JOHNSON CONTROLS, INC. Signature: Printed Name: FICINES W WER Title: PDay Stocker MER

200 Addenda dated \_

#### ADDENDUM TO THE JCI AND LAKEWOOD CONTRACT

This addendum is to be made part of the original agreement between Johnson Controls, Inc. and the City of Lakewood. This addendum will be entered into at the same time as the Performance Contract.

JCI and the City of Lakewood acknowledge that the City properties that JCI are to work on under the contract will continue being operated for public use, and as such there is no expectation that any of the buildings' tax exempt status will change. However, if any of the City properties under the terms of this agreement lose their tax-exempt status, JCI's obligations and responsibility as referenced in Schedule 2 shall remain in full force and effect.

City of Lakewood:
Signature: in the Denald
Printed Name: Ed Fitz Gerald
Title: May of

Date: 5/28/08

Johnson Controls, Inc.
$\langle \rangle > \langle \rangle$
Signature.
Printed Name KICIMPA L. MAN
Title: 1 Derc Ene Moc
Date: 5 22/83

Page 1

#### Lighting Inventory Form

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otal retrofit CFL Incentive @ 1/screw-in CFL lamp; \$15/hard- vired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00	
otal retrofit LED Exit Incentive @	\$80.00	
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equivalent full-load hours (EFLH) for facility type "Other" indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)	15.33	

#### Lighting Inventory Form

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Project Estimate Savings Sum		
Estimated Annual kWh Savings	10,023	
otal Change in Connected Load	2.49	
Annual Estimated Cost Savings	\$1,002.30	
Annual Operating Hours	4,500	
		1
nterior Lighting Incentive @ 0.05/kWh (excluding retrofit CFLs, ensors, or LED exit signs)	\$464.35	
Exterior Lighting Incentive @ 0.05/kWh (excluding retrofit CFLs, ensors, or LED exit signs)	\$0.00	
otal retrofit CFL Incentive @ 1/screw-in CFL lamp; \$15/hard- vired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00	
otal retrofit LED Exit Incentive @ 10/exit sign	\$50.00	
otal Lighting Controls Incentive @ 25/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00	
		J -
otal Calculated Incentive	\$514.35	
otal Fixture Quantity excluding retrofit	05	
FLs and LED Exit Sign otal Lamp Quantity for retrofit Screw-In	35	
FLs	0	
otal Lamp Quantity for retrofit Hard-Wired FLs	0	
otal Fixture Quantity for retrofit LED Exit	5	
otal Quantity for Occupancy Sensors	0	
otal Quantity for Daylight Sensors	0	

equivalent full-load hours (EFLH) for facility type "Other" indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)	2.82	

# <u>Mercantile Customer Project Commitment Agreement</u> <u>Cash Rebate Option</u>

THIS MERCANTILE CUSTOMER PROJECT COMMITMENT AGREEMENT ("Agreement") is made and entered into by and between The Cleveland Electric Illuminating Company, its successors and assigns (hereinafter called the "Company") and City of Lakewood, Taxpayer ID No. 34-6001633 its permitted successors and assigns (hereinafter called the "Customer") (collectively the "Parties" or individually the "Party") and is effective on the date last executed by the Parties as indicated below.

## WITNESSETH

WHEREAS, the Company is an electric distribution utility and electric light company, as both of these terms are defined in R.C. § 4928.01(A); and

WHEREAS, Customer is a mercantile customer, as that term is defined in R.C. § 4928.01(A)(19), doing business within the Company's certified service territory; and

WHEREAS, R.C. § 4928.66 (the "Statute") requires the Company to meet certain energy efficiency and peak demand reduction ("EE&PDR") benchmarks; and

WHEREAS, when complying with certain EE&PDR benchmarks the Company may include the effects of mercantile customer-sited EE&PDR projects; and

WHEREAS, Customer has certain customer-sited demand reduction, demand response, or energy efficiency project(s) as set forth in attached Exhibit 1 (the "Customer Energy Project(s)") that it desires to commit to the Company for integration into the Company's Energy Efficiency & Peak Demand Reduction Program Portfolio Plan ("Company Plan") that the Company will implement in order to comply with the Statute; and

WHEREAS, the Customer, pursuant to the Public Utilities Commission of Ohio's ("Commission") September 15, 2010 Order in Case No. 10-834-EL-EEC, desires to pursue a cash rebate of some of the costs pertaining to its Customer Energy Project(s) ("Cash Rebate") and is committing the Customer Energy Project(s) as a result of such incentive.

WHEREAS, Customer's decision to commit its Customer Energy Project(s) to the Company for inclusion in the Company Plan has been reasonably encouraged by the possibility of a Cash Rebate.

WHEREAS, in consideration of, and upon receipt of, said cash rebate, Customer will commit the Customer Energy Project(s) to the Company and will comply with all other terms and conditions set forth herein.

**NOW THEREFORE**, in consideration of the mutual promises set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties, intending to be legally bound, do hereby agree as follows:

 Customer Energy Projects. Customer hereby commits to the Company and Company accepts for integration into the Company Plan the Customer Energy Project(s) set forth on attached Exhibit 1. Said commitment shall be for the life of the Customer Energy Project(s). Company will incorporate said project(s) into the Company Plan to the extent that such projects qualify. In so committing, and as evidenced by the affidavit attached hereto as Exhibit A, Customer acknowledges that the information provided to the Company about the Customer Energy Project(s) is true and accurate to the best of its knowledge.

- a. By committing the Customer Energy Project(s) to the Company, Customer acknowledges and agrees that the Company shall control the use of the kWh and/or kW reductions resulting from said projects for purposes of complying with the Statute. By committing the Customer Energy Project(s), Customer further acknowledges and agrees that the Company shall take ownership of the energy efficiency capacity rights associated with said Project(s) and shall, at its sole discretion, aggregate said capacity into the PJM market through an auction. Any proceeds from any such bids accepted by PJM will be used to offset the costs charged to the Customer and other of the Company's customers for compliance with state mandated energy efficiency and/or peak demand requirements
- b. The Company acknowledges that some of Customer's Energy Projects contemplated in this paragraph may have been performed under certain other federal and/or state programs in which certain parameters are required to be maintained in order to retain preferential financing or other government benefits (individually and collectively, as appropriate, "Benefits"). In the event that the use of any such project by the Company in any way affects such Benefits, and upon written request from the Customer, Company will release said Customer's Energy Project(s) to the extent necessary for Customer to meet the prerequisites for such Benefits. Customer acknowledges that such release (i) may affect Customer's cash rebate discussed in Article 3 below; and (ii) will not affect any of Customer's other requirements or obligations.
- c. Any future Customer Energy Project(s) committed by Customer shall be subject to a separate application and, upon approval by the Commission, said projects shall become part of this Agreement.
- d. Customer will provide Company or Company's agent(s) with reasonable assistance in the preparation of the Commission's standard joint application for approval of this Agreement ("Joint Application") that will be filed with the Commission, with such Joint Application being consistent with then current Commission requirements.
- e. Upon written request and reasonable advance notice, Customer will grant employees or authorized agents of either the Company or the Commission reasonable, pre-arranged access to the Customer Energy Project(s) for purposes of measuring and verifying energy savings and/or peak demand reductions resulting from the Customer Energy Project(s). It is expressly agreed that consultants of either the Company or the Commission are their respective authorized agents.
- Joint Application to the Commission. The Parties will submit the Joint Application using the Commission's standard "Application to Commit Energy Efficiency/Peak Demand Reduction Programs" ("Joint Application") in which they will seek the Commission's approval of (i) this Agreement: (ii) the commitment of the Customer Energy Project(s) for inclusion in the Company Plan; and (iii) the Customer's Cash Rebate.

The Joint Application shall include all information as set forth in the Commission's standard form which, includes without limitation:

- i. A narrative description of the Customer Energy Project(s), including but not limited to, make, model and year of any installed and/or replaced equipment;
- ii. A copy of this Agreement; and
- ili. A description of all methodologies, protocols, and practices used or proposed to be used in measuring and verifying program results.

- 3. Customer Cash Rebate. Upon Commission approval of the Joint Application, Customer shall provide Company with a W-9 tax form, which shall at a minimum include Customer's tax identification number. Within the greater of 90 days of the Commission's approval of the Joint Application or the completion of the Customer Energy Project, the Company will issue to the Customer the Cash Rebate in the amount set forth in the Commission's Finding and Order approving the Joint Application.
  - a. Customer acknowledges: i) that the Company will cap the Cash Rebate at the lesser of 50% of Customer Energy Project(s) costs or \$250,000; ii) the maximum rebate that the Customer may receive per year is \$500,000 per Taxpayer Identification Number per utility service territory; and iii) if the Customer Energy Project qualifies for a rebate program approved by the Commission and offered by the Company, Customer may still elect to file such project under the Company's mercantile customer self direct program, however the Cash Rebate that will be paid shall be discounted by 25%; and
  - b. Customer acknowledges that breaches of this Agreement, include, but are not limited to:
    - i. Customer's failure to comply with the terms and conditions set forth in the Agreement, or its equivalent, within a reasonable period of time after receipt of written notice of such non-compliance;
    - ii. Customer knowingly falsifying any documents provided to the Company or the Commission in connection with this Agreement or the Joint Application.
  - c. In the event of a breach of this Agreement by the Customer, Customer agrees and acknowledges that it will repay to the Company, within 90 days of receipt of written notice of said breach, the full amount of the Cash Rebate paid under this Agreement. This remedy is in addition to any and all other remedies available to the Company by law or equity.
- 4. Termination of Agreement. This Agreement shall automatically terminate:
  - a. If the Commission fails to approve the Joint Agreement;
  - b. Upon order of the Commission; or
  - c. At the end of the life of the last Customer Energy Project subject to this Agreement.

Customer shall also have an option to terminate this Agreement should the Commission not approve the Customer's Cash Rebate, provided that Customer provides the Company with written notice of such termination within ten days of either the Commission issuing a final appealable order or the Ohio Supreme Court issuing its opinion should the matter be appealed.

- 5. Confidentiality. Each Party shall hold in confidence and not release or disclose to any person any document or information furnished by the other Party in connection with this Agreement that is designated as confidential and proprietary ("Confidential Information"), unless: (i) compelled to disclose such document or information by judicial, regulatory or administrative process or other provisions of law; (ii) such document or information is generally available to the public; or (iii) such document or information was available to the receiving Party on a non-confidential basis at the time of disclosure.
  - a. Notwithstanding the above, a Party may disclose to its employees, directors, attorneys, consultants and agents all documents and information furnished by the other Party in connection with this Agreement, provided that such employees, directors, attorneys,

consultants and agents have been advised of the confidential nature of this information and through such disclosure are deemed to be bound by the terms set forth herein.

- b. A Party receiving such Confidential Information shall protect it with the same standard of care as its own confidential or proprietary information.
- c. A Party receiving notice or otherwise concluding that Confidential Information furnished by the other Party in connection with this Agreement is being sought under any provision of law, to the extent it is permitted to do so under any applicable law, shall endeavor to: (i) promptly notify the other Party; and (ii) use reasonable efforts in cooperation with the other Party to seek confidential treatment of such Confidential Information, including without limitation, the filing of such information under a valid protective order.
- d. By executing this Agreement, Customer hereby acknowledges and agrees that Company may disclose to the Commission or its Staff any and all Customer information, including Confidential Information, related to a Customer Energy Project, provided that Company uses reasonable efforts to seek confidential treatment of the same.
- 6. Taxes. Customer shall be responsible for all tax consequences (if any) arising from the payment of the Cash Rebate.
- Notices. Unless otherwise stated herein, all notices, demands or requests required or permitted under this Agreement must be in writing and must be delivered or sent by overnight express mail, courier service, electronic mail or facsimile transmission addressed as follows:

## If to the Company:

FirstEnergy Service Company 76 South Main Street Akron, OH 44308 Attn: Victoria Nofziger Telephone: 330-384-4684 Fax: 330-761-4281 Email: ymmofziger@firstenergycorp.com

#### If to the Customer;

City of Lakewood 12650 Detroit Road Lakewood, OH 44107 Attn:Joe Beno Telephone:216-529-6804 Fax: Email:joe.beno@lakewoodoh.net or to such other person at such other address as a Party may designate by like notice to the other Party. Notice received after the close of the business day will be deemed received on the next business day; provided that notice by facsimile transmission will be deemed to have been received by the recipient if the recipient confirms receipt telephonically or in writing.

- 8. Authority to Act. The Parties represent and warrant that they are represented by counsel in connection with this Agreement, have been fully advised in connection with the execution thereof, have taken all legal and corporate steps necessary to enter into this Agreement, and that the undersigned has the authority to enter into this Agreement, to bind the Parties to all provisions herein and to take the actions required to be performed in fulfillment of the undertakings contained herein.
- 9. Non-Waiver. The delay or failure of either party to assert or enforce in any instance strict performance of any of the terms of this Agreement or to exercise any rights hereunder conferred, shall not be construed as a waiver or relinquishment to any extent of its rights to assert or rely upon such terms or rights at any later time or on any future occasion.
- 10. Entire Agreement. This Agreement, along with related exhibits, and the Company's Rider DSE, or its equivalent, as amended from time to time by the Commission, contains the Parties' entire understanding with respect to the matters addressed herein and there are no verbal or collateral representations, undertakings, or agreements not expressly set forth herein. No change in, addition to, or waiver of the terms of this Agreement shall be binding upon any of the Parties unless the same is set forth in writing and signed by an authorized representative of each of the Parties. In the event of any conflict between Rider DSE or its equivalent and this document, the latter shall prevail.
- 11. Assignment. Customer may not assign any of its rights or obligations under this Agreement without obtaining the prior written consent of the Company, which consent will not be unreasonably withheld. No assignment of this Agreement will relieve the assigning Party of any of its obligations under this Agreement until such obligations have been assumed by the assignce and all necessary consents have been obtained.
- 12. Severability. If any portion of this Agreement is held invalid, the Parties agree that such invalidity shall not affect the validity of the remaining portions of this Agreement, and the Parties further agree to substitute for the invalid portion a valid provision that most closely approximates the economic effect and intent of the invalid provision.
- 13. Governing Law. This Agreement shall be governed by the laws and regulations of the State of Ohio, without regard to its conflict of law provisions.
- 14. Execution and Counterparts. This Agreement may be executed in multiple counterparts, which taken together shall constitute an original without the necessity of all parties signing the same page or the same documents, and may be executed by signatures to electronically or telephonically transmitted counterparts in lieu of original printed or photocopied documents. Signatures transmitted by facsimile shall be considered original signatures.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed by their duly authorized officers or representatives as of the day and year set forth below.

The Cleveland Electric Illuminating Company\_

(Company) By:  $\zeta$ 1/h

Title: V.P. Of Energy Efficiency

Date: 3-18-13

City of Lakewood (Customet) By: of Rublic Works Rectol Title: 12 Date:

Approved As To Legal Form: mile ch Unlad Director of Law, City of Lakewood

# Affidavit of City of Lakewood - Exhibit \_A \_

STATE OF OHIO

COUNTY OF Cuyahoga )

SS:

) )

I, Enter Name ,being first duly sworn in accordance with law, deposes and states as follows:

- 1. I am the Title of City of Lakewood ("Customer") As part of my duties, I oversee energy related matters for the Customer.
- 2. The Customer has agreed to commit certain energy efficiency projects to The Cleveland Electric Illuminating Company("Company"), which are the subject of the

agreement to which this affidavit is attached ("Project(s)").

- 3. In exchange for making such a commitment, the Company has agreed to provide Customer with Cash ("Incentive"). This Incentive was a critical factor in the Customer's decision to go forward with the Project(s) and to commit the Project(s) to the Company.
- 4. All information related to said Project(s) that has been submitted to the Company is true and accurate to the best of my knowledge.

FURTHER AFFIANT SAYETH NAUGHT.

Sworn to before me and subscribed in my presence this <u>24</u> day of <u>NW</u>, 2012 COLLEEN A. GILLESPIE Notary My Commission Expires June 9, 2014 (Recorded in Cuyahoga County)

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Version 9.11.12

# This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

3/27/2013 1:27:38 PM

in

Case No(s). 13-0183-EL-EEC

Summary: Application to Commit Energy Efficiency/Peak Demand Reduction Programs of The Cleveland Electric Illuminating Company and City of Lakewood electronically filed by Ms. Jennifer M. Sybyl on behalf of The Cleveland Electric Illuminating Company and City of Lakewood