

APPENDIX B – ENERGY AUDIT REPORTS



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energy conservation services*

***PROPOSAL FOR
ENERGY SAVING LIGHTING MEASURES
NATIONAL GRID
ACCELERATED LIGHTING PROGRAM
WILL PAY \$91,210.50 IN REBATES!***

Submitted August 13th, 2009 to:

MILLBURY HIGH SCHOOL

**MILLBURY
PUBLIC SCHOOLS**

12 Martin Street | Millbury, MA 01527
District Office: 508.865.9501
www.millbury.k12.ma.us



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energy conservation services

440B East Squantum Street • Quincy, MA 02171
T 617 328-9896 • F 617 328-0496
www.prismconsultinginc.com

August 13, 2009

Mr. Richard Bedard
Millbury High School
12 Martin St.
Millbury, MA 01527

RE: Lighting Analysis and Energy Cost Savings Proposal

Dear Richard,

Thank you for your interest in energy conservation. As requested our auditor and Vice-President of Field Operations, Paul Hurley, prepared the enclosed lighting savings analyses and proposals. The proposals are based on audits conducted on August 13, 2009. The proposals consist primarily of lamp and ballast retrofits and controls. This recommendation offers the most cost-effective option resulting in the most savings for the least cost. The results of our analysis show...

- ✓ You can **save approximately \$31,339.99 per year** on your electric bill by installing new, state-of-the-art lighting equipment. You will also experience a single avoided maintenance cost of **\$9,031.08**.
- ✓ National Grid will pay **63% of the cost** (parts and labor) of the installed energy efficient lighting (rebates are prescriptive and subject to National Grid approval).
- ✓ While this lighting upgrade is valued at \$145,570.54, your contribution is **\$54,360.04**.
- ✓ The rapid payback of your lighting investment **is 1.4 years**.

Please refer to the audit/savings analysis for a detailed breakdown of the proposal or call Paul Hurley at (508) 987-1262 with specific questions. Rebates are estimated and subject to utility approval. Based on our experience, we are confident that our proposal will meet the eligibility criteria pending the availability of funds within each program. If you are interested in proceeding, we will contact the utility for each project of interest to submit a rebate application on your behalf.

In reviewing these results please consider the following benefits of the rebate application programs...

- ✓ ***Realize significant cost savings on your electric bill each year***
- ✓ ***Receive new, state-of-the art lighting components (a capital improvement) at a significant discount***

- ✓ *Enhance the facility environment, improving visibility, safety and aesthetics while saving money at the same time.*
- ✓ *Installation provided by Prism Consulting, Inc.'s licensed and qualified subcontractors. The project will be professionally designed and managed by Prism's own project management team. Prism's team has been selected by National Grid and other utilities as exclusive Vendors for the Small and Large Business Energy Efficiency Programs due to our comprehensive capabilities in the areas of energy efficient lighting and project management.*
- ✓ *Installation scheduled at your convenience with little or no disruption to the facility*

TO BEGIN SAVING MONEY ON YOUR LIGHTING BILL, SIMPLY...

1. ***REVIEW*** the enclosed Agreement and Proposal
2. ***SIGN*** at the bottom
3. ***INCLUDE CHECK FOR 30% RETAINER*** in the amount of: \$43,671.16.
4. ***MAIL AGREEMENT AND CHECK TO: PRISM CONSULTING, INC., 440B E. SQUANTUM STREET QUINCY, MA 02171***

The full details of our Lighting Analysis are enclosed. We look forward to discussing our Energy Cost Savings Proposal with you - please call us at **617 328-9896**. We'd be pleased to further discuss the specific cost savings and energy benefits for your facility. *We hope you will take advantage of these valuable energy and money-saving measures.*

As soon as the signed agreement is received, your materials will be ordered and the installation at each facility will be scheduled at your convenience. The lead-time on the materials is approximately three weeks. Upon delivery of the materials, our subcontractor will call you directly to schedule a date and time.

We at Prism Consulting, Inc. sincerely appreciate your time and interest in conserving energy.

Sincerely,

Wendy Simmons
President



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energy conservation services*

4408 East Squantum Street • Quincy, MA 02171
T 617 328-9896 • F 617 328-0496
www.prismconsultinginc.com

***Executive Overview of Lighting Upgrade Proposal
Presented to:***

MILLBURY HIGH SCHOOL

Total Project Cost
\$145,570.54

Utility Incentive
\$91,210.50

Total out of Pocket
\$54,360.04

Avoided Maintenance Savings
\$9,031.08

Effective Cost
\$45,328.96

Annual Energy Savings
\$31,339.99

Effective Payback
1.4 years

Cashflow gains after 5 years
\$111,370.98

Annual Return on Investment
69%

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AUDIT AND SAVINGS ANALYSIS NATIONAL GRID ACCELERATED LIGHTING PROGRAM

CUSTOMER NAME: MILLER/ST. JESU SCHOOL
ADDRESS: 12 MARTIN ST.
MILLBURY, MA 01527
CONTACT: RICHARD BEDARD
PHONE: 508-855-5951
FAX: 508-855-0995
ACCOUNT #: 72962-72098

Auditor: PAUL KURLEY
Prism Consulting, Inc.
Audit Date: 10/20/03

4408 East Squamport Street
Quincy, MA 02171
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LINE	ROOM	HT	DESCRIPTION LAMP/RECEIVER	EXISTING				PROPOSED				CONTROLS	
				FUTURE QTY	WATTS FUTURE	KW	HRS/YR	WATTS FUTURE	KW	HRS/YR	WATTS FUTURE	TYPE	QUANTITY
1	WING FIRST FLOOR	8'	11.4 TBL DRL SWITCHED	25	30	0.750	4,420	3,315	0.850	4,420	2,431		
2	HALLWAY	8'	21.4 TBL DRL SWITCHED	25	60	1.500	4,420	6,630	1.650	4,420	4,641		
3	HALLWAY	8'	31.4 TBL DRL SWITCHED	10	88	1.584	4,420	7,001	1.800	4,420	4,217		
4	MAIN OFFICE OPEN AREA	8'	31.4 TBL BIA LAMPS	1	88	0.088	1,000	88	0.088	1,000	88		
5	OFFICE MEN'S ROOM	8'	31.4 TBL BIA LAMPS	1	88	0.088	1,000	88	0.088	1,000	88		
6	OFFICE MEN'S ROOM	8'	31.4 TBL BIA LAMPS	1	88	0.088	1,000	88	0.088	1,000	88		
7	VICE PRINCIPLES OFFICE	8'	11.4 TBL DRL SWITCHED	3	30	0.090	4,420	398	0.100	4,420	292		
8	VICE PRINCIPLES OFFICE	8'	21.4 TBL DRL SWITCHED	3	60	0.180	4,420	796	0.450	4,420	597		
9	STORAGE ROOM	8'	21.4 TBL	3	60	0.120	1,000	120	0.120	1,000	84		
10	CONFERENCE ROOM	8'	41.4 TBL	1	112	0.112	2,000	224	0.084	1,000	198		
11	CONFERENCE ROOM	8'	31.4 TBL BIA LAMPS	1	88	0.088	4,420	3,890	0.080	4,420	2,343		
12	GUIDANCE OFFICES	8'	21.4 TBL DRL SWITCHED	8	30	0.180	4,420	768	0.132	4,420	583		
13	GUIDANCE OFFICES	8'	11.4 TBL DRL SWITCHED	8	60	0.360	4,420	1,591	0.252	4,420	1,114		
14	SPECIAL ED OPEN AREA	8'	31.4 TBL BIA LAMPS	9	88	0.792	4,420	3,501	0.477	4,420	2,108		
15	SPECIAL ED KITCHENETTE	8'	31.4 TBL	1	88	0.088	4,420	389	0.093	750	47	WALL-W	1
16	SPEO OFFICES	8'	11.4 TBL DRL SWITCHED	5	30	0.150	4,420	796	0.132	4,420	583		
17	SPEO OFFICES	8'	21.4 TBL DRL SWITCHED	5	60	0.300	4,420	1,591	0.252	4,420	1,114		
18	HIGH SCHOOL CAFE	8'	31.4 TBL BIA LAMPS	30	88	2.640	4,420	11,669	0.159	4,420	7,028		
19	STARWAY BY CASE	8'	31.4 TBL BIA LAMPS	3	88	0.264	4,420	1,167	0.126	4,420	703		
20	STARWAY BY CASE	8'	31.4 TBL	3	88	0.264	4,420	778	0.126	4,420	587		
21	STARWAY #1	8'	31.4 TBL BIA LAMPS	1	88	0.088	4,420	389	0.109	4,420	703		
22	STARWAY #1	8'	31.4 TBL	1	88	0.088	4,420	389	0.083	2,600	164		
23	JR HIGH SCHOOL CAFE	8'	31.4 TBL BIA LAMPS	28	88	2.464	4,420	10,891	0.321	4,420	1,840		
24	GHETS OFFICE	8'	31.4 TBL BIA LAMPS	4	88	0.352	2,000	704	0.093	2,600	164		
25	KITCHEN	8'	31.4 TBL	2	88	0.176	2,800	458	0.083	2,600	164		
26	KITCHEN PANTRY	8'	31.4 TBL	2	88	0.176	2,800	458	0.083	2,600	164		
27	KITCHEN STORAGE	8'	31.4 TBL	2	88	0.176	2,800	458	0.083	2,600	164		
28	KITCHEN STORAGE	8'	31.4 TBL	2	88	0.176	2,800	458	0.083	2,600	164		
29	KITCHEN SLOP DOOR	8'	31.4 TBL	2	88	0.176	2,800	458	0.083	2,600	164		
30	KITCHEN SLOP SINK	8'	31.4 TBL	2	88	0.176	2,800	458	0.083	2,600	164		
31	KITCHEN BATH	8'	31.4 TBL	2	88	0.176	2,800	458	0.083	2,600	164		
32	STAFF LARIES	8'	31.4 TBL	1	88	0.088	2,600	229	0.083	2,600	164		
33	STAFF LARIES	8'	31.4 TBL	1	88	0.088	2,600	229	0.083	2,600	164		
34	STAFF LARIES	8'	31.4 TBL	1	88	0.088	2,600	229	0.083	2,600	164		
35	STARWAY #2	8'	31.4 TBL BIA LAMPS	7	88	0.616	4,420	2,723	0.321	4,420	1,840		
36	STARWAY #2	8'	31.4 TBL	2	88	0.176	4,420	778	0.083	2,600	164		
37	PRINCIPLES SECRETARY	8'	31.4 TBL BIA LAMPS	4	88	0.352	4,420	1,556	0.126	4,420	587		
38	PRINCIPLES	8'	31.4 TBL BIA LAMPS	4	88	0.352	4,420	1,556	0.126	4,420	587		
39	CONFERENCE ROOM	8'	31.4 TBL BIA LAMPS	4	88	0.352	4,420	1,556	0.126	4,420	587		
40	BOYS BATH	8'	31.4 TBL BIA LAMPS	4	88	0.352	4,420	1,556	0.126	4,420	587		
41	GIRLS BATH	8'	31.4 TBL BIA LAMPS	4	88	0.352	4,420	1,556	0.126	4,420	587		
42	STORAGE CLASS ROOM	8'	31.4 TBL DRL SWITCHED	15	30	0.450	2,800	1,170	0.080	4,420	420		
43	STORAGE CLASS ROOM	8'	31.4 TBL	15	60	0.900	2,800	2,340	0.080	4,420	420		
44	COOKING CLASSROOM	8'	31.4 TBL	15	60	0.900	2,800	2,340	0.080	4,420	420		
45	COOKING CLASSROOM	8'	11.4 TBL DRL SWITCHED	18	30	0.540	2,800	915	0.080	4,420	420		
46	131	8'	21.4 TBL DRL SWITCHED	12	30	0.360	2,800	2,638	0.080	4,420	420		
47	131	8'	11.4 TBL DRL SWITCHED	12	60	0.720	2,800	1,672	0.080	4,420	420		
48	133	8'	11.4 TBL DRL SWITCHED	12	30	0.360	2,800	915	0.080	4,420	420		
49	133	8'	21.4 TBL DRL SWITCHED	12	60	0.720	2,800	1,672	0.080	4,420	420		
50	137	8'	31.4 TBL	12	88	1.056	2,800	2,729	0.088	2,600	164		
51	WING FIRST FLOOR	8'	11.4 TBL BIA LAMPS DRL SWITCHED	30	30	0.060	4,420	265	0.060	4,420	420		
52	FACULTY ROOM	8'	21.4 TBL BIA LAMPS DRL SWITCHED	2	55	0.112	4,420	495	0.074	4,420	327		
53	FACULTY ROOM	8'	11.4 TBL DRL SWITCHED	2	30	0.180	4,420	796	0.132	4,420	583		
54	FACULTY ROOM	8'	21.4 TBL DRL SWITCHED	6	60	0.360	4,420	1,591	0.252	4,420	1,114		
55	FACULTY ROOM BATH	8'	31.4 TBL BIA LAMPS	1	88	0.088	1,000	88	0.083	2,600	164		
57	HALLWAY	8'	11.4 TBL DRL SWITCHED	10	30	0.300	2,800	780	0.220	2,800	572		

58	HALLWAY	21.4" TBL DRL SWITCHED	5'	10'	60	0.602	2.600	1.880	21.4" TBL DRL SWITCHED	10'	42	0.420	2.600	1.032
59	WEIGHT ROOM	3/4" TBL	14'	30'	88	2.640	4.420	11.089	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	1.890	4.420	8.354
60	EXERCISE ROOM	3/4" TBL	5'	4	88	0.255	4.420	1.258	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	4	63	0.252	4.420	1.114
61	MRS. FRIEDMAN'S CLASS	11.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	2.34	11.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.72
62	MRS. FRIEDMAN'S CLASS	21.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	2.34	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.72
63	TOM BRYEN'S CLASS	11.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	2.34	11.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.72
64	TOM BRYEN'S CLASS	21.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	2.34	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.72
65	GYM	320 W/FRSH	25'	24'	455	10.920	4.420	48.286	41.4" TBL NO FUTURE W/INS & VRSUARD	24'	42	0.264	2.600	1.310
66	NURSE	3/4" TBL	5'	30'	88	0.284	2.600	0.88	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	0.189	1.500	5.352
67	NURSE BATH	3/4" TBL	5'	30'	88	0.284	2.600	0.88	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	0.189	1.500	5.352
68	NURSE OFFICE	3/4" TBL	5'	30'	88	0.284	2.600	0.88	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	0.189	1.500	5.352
69	GIRLS LOCKER ROOM	3/4" TBL	5'	30'	88	0.284	2.600	0.88	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	0.189	1.500	5.352
70	GIRLS LOCKER ROOM OFFICE	3/4" TBL	5'	30'	88	0.284	2.600	0.88	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	0.189	1.500	5.352
71	BOYS LOCKER ROOM	3/4" TBL	5'	30'	88	0.284	2.600	0.88	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	0.189	1.500	5.352
72	BOYS LOCKER ROOM OFFICE	3/4" TBL	5'	30'	88	0.284	2.600	0.88	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	0.189	1.500	5.352
73	GIRLS LOCKER ROOM	3/4" TBL	5'	30'	88	0.284	2.600	0.88	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	0.189	1.500	5.352
74	GIRLS LOCKER ROOM OFFICE	3/4" TBL	5'	30'	88	0.284	2.600	0.88	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	0.189	1.500	5.352
75	BOYS LOCKER ROOM HALLWAY	21.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	2.34	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.72
76	BOYS FIRST FLOOR	21.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	2.34	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.72
77	HALLWAY	11.4" TBL DRL SWITCHED	5'	30'	88	0.450	4.420	1.989	11.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.450	4.420	1.989
78	HALLWAY	21.4" TBL DRL SWITCHED	5'	30'	88	0.450	4.420	1.989	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.450	4.420	1.989
79	HALLWAY	3/4" TBL BIA LAMPS	5'	30'	88	2.112	4.420	9.335	3/4" TBL LFB LAB REFLECTOR KIT	30'	42	0.210	2.600	5.622
80	TECH ED	21.4" TBL	5'	30'	88	0.300	2.600	0.780	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.300	2.600	0.945
81	TECH ED	21.4" TBL	5'	30'	88	0.300	2.600	0.780	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.300	2.600	0.945
82	CANTEN	3/4" TBL	5'	30'	88	0.264	2.600	0.88	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	0.189	1.500	5.352
83	WOMAN'S STAFF BATH	3/4" TBL	5'	30'	88	0.264	2.600	0.88	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	0.189	1.500	5.352
84	WOMAN'S STAFF BATH	3/4" TBL	5'	30'	88	0.264	2.600	0.88	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	0.189	1.500	5.352
85	C-132	11.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	11.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
86	C-132	21.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
87	124	11.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	11.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
88	124	21.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
89	TECH ED STORAGE	3/4" TBL	5'	30'	88	0.260	2.600	0.88	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	0.189	1.500	5.352
90	TECH ED STORAGE	3/4" TBL	5'	30'	88	0.260	2.600	0.88	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	0.189	1.500	5.352
91	TECH ED CLASS ROOM	21.4" TBL	5'	30'	88	0.160	2.600	2.012	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.160	2.600	2.012
92	TECH ED CLASS ROOM	21.4" TBL	5'	30'	88	0.160	2.600	2.012	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.160	2.600	2.012
93	TECH ED OFFICE	3/4" TBL	5'	30'	88	0.260	2.600	0.88	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	0.189	1.500	5.352
94	120	11.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	11.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
95	120	21.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
96	120 BATH	3/4" TBL	5'	30'	88	0.260	2.600	0.88	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	0.189	1.500	5.352
97	STORAGE	3/4" TBL	5'	30'	88	0.260	2.600	0.88	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	0.189	1.500	5.352
98	135	11.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	11.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
99	135	21.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
100	HALLWAY STORAGE	3/4" TBL	5'	30'	88	0.176	2.600	1.872	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	0.176	2.600	1.872
101	BAND ROOM	11.4" TBL BIA LAMPS DRL SWITCHED	17'	16'	30	0.460	2.600	1.248	11.4" TBL LFB LAB REFLECTOR KIT DRL SWITCHED	16'	15	0.240	2.600	624
102	BAND ROOM	21.4" TBL BIA LAMPS DRL SWITCHED	17'	16'	30	0.460	2.600	1.248	21.4" TBL LFB LAB REFLECTOR KIT DRL SWITCHED	16'	15	0.240	2.600	624
103	BAND ROOM PRACTICE ROOMS	3/4" TBL BIA LAMPS	5'	30'	88	0.350	2.600	0.935	3/4" TBL LFB LAB REFLECTOR KIT	30'	42	0.350	2.600	1.032
104	BAND STORAGE ROOM	44.4" TBL	5'	30'	88	0.350	2.600	0.935	44.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
105	BAND STORAGE ROOM	21.4" TBL	5'	30'	88	0.350	2.600	0.935	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
106	BAND OFFICE	3/4" TBL	5'	30'	88	0.176	2.600	1.872	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	63	0.176	2.600	1.872
107	STAGE	3/4" TBL	17'	10'	112	1.120	2.600	2.812	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	10'	16	0.840	2.600	2.184
108	STAGE OFFICE	44.4" TBL	5'	30'	88	0.350	2.600	0.935	44.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
109	A WING FIRST FLOOR	11.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	11.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
110	HALLWAY	21.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
111	HALLWAY	3/4" TBL BIA LAMPS	5'	30'	88	0.350	2.600	0.935	3/4" TBL LFB LAB REFLECTOR KIT	30'	42	0.350	2.600	1.032
112	HALLWAY	3/4" TBL BIA LAMPS	5'	30'	88	0.350	2.600	0.935	3/4" TBL LFB LAB REFLECTOR KIT	30'	42	0.350	2.600	1.032
113	145	11.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	11.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
114	145	21.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
115	144	3/4" TBL BIA LAMPS	5'	30'	88	0.350	2.600	0.935	3/4" TBL LFB LAB REFLECTOR KIT	30'	42	0.350	2.600	1.032
116	BSMT	44.4" TBL	5'	30'	88	0.350	2.600	0.935	44.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
117	BSMT	21.4" TBL	5'	30'	88	0.350	2.600	0.935	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
118	STUDIO ENTRANCE	3/4" TBL BIA LAMPS	5'	30'	88	0.350	2.600	0.935	3/4" TBL LFB LAB REFLECTOR KIT	30'	42	0.350	2.600	1.032
119	STUDIO ROOMS	3/4" TBL BIA LAMPS	5'	30'	88	0.350	2.600	0.935	3/4" TBL LFB LAB REFLECTOR KIT	30'	42	0.350	2.600	1.032
120	MAIN STUDIO	21.4" TBL	5'	30'	88	0.350	2.600	0.935	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
121	MAIN STUDIO STORAGE	21.4" TBL	5'	30'	88	0.350	2.600	0.935	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
122	PAPER STORAGE ROOM	3/4" TBL	5'	30'	88	0.350	2.600	0.935	3/4" TBL LFB LAB REFLECTOR KIT	30'	42	0.350	2.600	1.032
123	BOYS BATH	3/4" TBL	5'	30'	88	0.350	2.600	0.935	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
124	GIRLS BATH	3/4" TBL	5'	30'	88	0.350	2.600	0.935	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
125	103	11.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	11.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
126	103	21.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
127	103	3/4" TBL BIA LAMPS DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	3/4" TBL LFB LAB REFLECTOR KIT DRL SWITCHED	30'	42	0.350	2.600	1.032
128	106	21.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
129	106	3/4" TBL	5'	30'	88	0.350	2.600	0.935	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
130	110	11.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	11.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
131	110	21.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
132	110 STORAGE	3/4" TBL	5'	30'	88	0.350	2.600	0.935	3/4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
133	113	11.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	11.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
134	113	21.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	21.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032
135	113	3/4" TBL BIA LAMPS DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	3/4" TBL LFB LAB REFLECTOR KIT DRL SWITCHED	30'	42	0.350	2.600	1.032
136	113	21.4" TBL BIA LAMPS DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	21.4" TBL LFB LAB REFLECTOR KIT DRL SWITCHED	30'	42	0.350	2.600	1.032
137	114	11.4" TBL DRL SWITCHED	5'	30'	88	0.350	2.600	0.935	11.4" 28W SUPER TBL LFB LAB DRL SWITCHED	30'	42	0.350	2.600	1.032

138	114	21.4 TBEI DBL SWITCHED	6	60	0.480	2,600	1,248	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	6	42	0.335	2,600	874
139	114	11.4 TBEI BAX LAMPS DBL SWITCHED	1	50	0.020	2,600	76	11.4 TBEI LBF LAB REFLECTOR KIT DBL SWITCHED	1	15	0.015	2,600	30
140	114	21.4 TBEI BAX LAMPS DBL SWITCHED	1	50	0.020	2,600	146	21.4 TBEI LBF LAB REFLECTOR KIT DBL SWITCHED	1	37	0.037	2,600	86
141	115	21.4 TBEI DBL SWITCHED	6	60	0.270	2,600	702	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	6	42	0.198	2,600	915
142	115	21.4 TBEI DBL SWITCHED	6	60	0.270	2,600	1,404	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	6	42	0.378	2,600	983
143	STARWAY #4	31.4 TBEI BAX LAMPS	1	88	0.440	4,420	1,845	31.4 TBEI LBF LAB REFLECTOR KIT	1	53	0.265	4,420	1,171
144	STARWAY #4	31.4 TBEI	1	88	0.385	4,420	1,558	31.4 28W SUPER TBEI LBF LAB	1	63	0.252	4,420	1,114
145	STARWAY #4	41.4 TBEI	1	112	0.112	4,420	495	41.4 28W SUPER TBEI LBF LAB	1	84	0.084	4,420	371
146	GUSTODIANS ROOM	41.4 TBEI	1	112	0.335	4,420	1,485	41.4 28W SUPER TBEI LBF LAB	1	84	0.262	4,420	1,114
147	GUSTODIANS ROOM	41.4 TBEI	1	60	0.090	4,420	795	21.4 28W SUPER TBEI LBF LAB	1	42	0.042	4,420	188
148	LIBRARY	21.4 TBEI BAX LAMPS	0	50	0.020	2,600	0	NO CHANGE	0	60	0.000	2,600	0
149	LIBRARY	11.4 TBEI DBL SWITCHED	6	30	0.190	2,600	468	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	6	42	0.132	2,600	343
150	LIBRARY	21.4 TBEI DBL SWITCHED	6	60	0.380	2,600	936	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	6	42	0.252	2,600	655
151	LIBRARY REFERENCE	31.4 TBEI	2	88	0.176	2,600	458	31.4 28W SUPER TBEI LBF LAB	2	63	0.128	2,600	328
152	LIBRARY OFFICE	31.4 TBEI	4	88	0.352	2,600	915	31.4 28W SUPER TBEI LBF LAB	4	63	0.252	2,600	302
153	LIBRARY WORK ROOM	31.4 TBEI	4	88	0.352	2,600	915	31.4 28W SUPER TBEI LBF LAB	4	63	0.252	2,600	302
154	SERVER ROOM	41.4 TBEI	2	112	0.224	1,000	224	41.4 28W SUPER TBEI LBF LAB	2	84	0.168	1,000	168
155	BOILER ROOM	41.4 TBEI	2	112	1.008	1,000	1,008	41.4 28W SUPER TBEI LBF LAB	2	84	0.168	1,000	168
156	BOILER ROOM	41.4 TBEI	2	112	0.088	1,000	88	21.4 28W SUPER TBEI LBF LAB	2	42	0.042	1,000	756
157	21.4 TBEI	21.4 TBEI	1	60	0.080	1,000	60	21.4 28W SUPER TBEI LBF LAB	1	42	0.042	1,000	42
158	21.4 TBEI	21.4 TBEI	1	60	0.080	1,000	60	21.4 28W SUPER TBEI LBF LAB	1	42	0.042	1,000	42
159	HALLWAY	11.4 TBEI DBL SWITCHED	16	30	0.480	4,420	2,122	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	16	22	0.352	4,420	1,558
160	HALLWAY	21.4 TBEI DBL SWITCHED	16	60	0.960	4,420	4,243	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	16	42	0.672	4,420	2,020
161	201	11.4 TBEI DBL SWITCHED	12	30	0.360	2,600	936	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.264	2,600	686
162	202	11.4 TBEI DBL SWITCHED	12	60	0.720	2,600	1,872	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.528	2,600	1,310
163	202	11.4 TBEI DBL SWITCHED	12	30	0.360	2,600	936	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.264	2,600	686
164	205	11.4 TBEI DBL SWITCHED	12	60	0.720	2,600	1,872	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.528	2,600	1,310
165	205	11.4 TBEI DBL SWITCHED	12	30	0.360	2,600	936	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.264	2,600	686
166	205	11.4 TBEI DBL SWITCHED	12	60	0.720	2,600	1,872	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.528	2,600	1,310
167	205	11.4 TBEI DBL SWITCHED	12	30	0.360	2,600	936	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.264	2,600	686
168	207	11.4 TBEI DBL SWITCHED	12	60	0.720	2,600	1,872	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.528	2,600	1,310
169	207	11.4 TBEI DBL SWITCHED	12	30	0.360	2,600	936	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.264	2,600	686
170	209	11.4 TBEI DBL SWITCHED	12	60	0.720	2,600	1,872	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.528	2,600	1,310
171	209	11.4 TBEI DBL SWITCHED	12	30	0.360	2,600	936	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.264	2,600	686
172	OFFICE MARKED STORAGE	11.4 TBEI DBL SWITCHED	12	60	0.720	2,600	1,872	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.528	2,600	1,310
173	OFFICE MARKED STORAGE	11.4 TBEI DBL SWITCHED	12	30	0.360	2,600	936	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.264	2,600	686
174	OFFICE MARKED STORAGE	11.4 TBEI DBL SWITCHED	12	60	0.720	2,600	1,872	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.528	2,600	1,310
175	OFFICE MARKED STORAGE	11.4 TBEI DBL SWITCHED	12	30	0.360	2,600	936	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.264	2,600	686
176	BOXES BATH	21.4 TBEI DBL SWITCHED	12	60	0.120	2,600	312	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.084	2,600	218
177	BOXES BATH	31.4 TBEI	3	88	0.264	4,420	1,167	31.4 28W SUPER TBEI LBF LAB	3	63	0.189	4,420	855
178	220	11.4 TBEI DBL SWITCHED	12	60	0.264	4,420	1,167	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.189	4,420	855
179	220	21.4 TBEI DBL SWITCHED	12	30	0.270	2,600	702	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.198	2,600	515
180	222	11.4 TBEI DBL SWITCHED	12	60	0.540	2,600	1,404	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.378	2,600	983
181	222	21.4 TBEI DBL SWITCHED	12	30	0.360	2,600	936	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.264	2,600	686
182	224	11.4 TBEI DBL SWITCHED	12	60	0.720	2,600	1,872	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.528	2,600	1,310
183	224	11.4 TBEI DBL SWITCHED	12	30	0.360	2,600	936	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.264	2,600	686
184	ART	11.4 TBEI DBL SWITCHED	12	60	0.720	2,600	1,872	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.528	2,600	1,310
185	ART	11.4 TBEI DBL SWITCHED	12	30	0.360	2,600	936	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.264	2,600	686
186	ART STORAGE	21.4 TBEI DBL SWITCHED	12	60	0.080	2,600	240	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.030	2,600	858
187	KILN ROOM	21.4 TBEI	12	60	0.080	2,600	240	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.030	2,600	858
188	MATH OFFICE	11.4 TBEI DBL SWITCHED	12	112	0.224	2,600	592	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.042	1,000	42
189	MATH OFFICE	21.4 TBEI DBL SWITCHED	12	30	0.120	2,600	312	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.084	2,600	218
190	MATH OFFICE STORAGE	21.4 TBEI DBL SWITCHED	12	60	0.240	2,600	624	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.168	2,600	437
191	GAT WALK HALLWAY	21.4 TBEI	12	60	0.060	2,600	156	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.042	1,000	42
192	GAT WALK HALLWAY	11.4 TBEI DBL SWITCHED	12	30	0.510	4,420	2,254	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.374	4,420	1,653
193	GAT WALK HALLWAY	21.4 TBEI DBL SWITCHED	12	60	1.020	4,420	4,508	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.714	4,420	3,158
194	A WING SECOND FLOOR	31.4 TBEI	1	88	0.088	4,420	388	31.4 28W SUPER TBEI LBF LAB	1	63	0.036	4,420	276
195	HALLWAY	11.4 TBEI DBL SWITCHED	15	30	0.450	4,420	1,989	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	15	22	0.330	4,420	1,459
196	HALLWAY	21.4 TBEI DBL SWITCHED	15	60	0.900	4,420	3,978	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	15	42	0.660	4,420	2,785
197	215	41.4 TBEI	10	112	1.120	2,600	2,612	41.4 28W SUPER TBEI LBF LAB	10	84	0.640	2,600	2,184
198	215 STORAGE	41.4 TBEI	10	112	0.112	2,600	261	41.4 28W SUPER TBEI LBF LAB	10	84	0.084	2,600	218
199	BOYS BATH	31.4 TBEI	3	88	0.384	4,420	1,167	31.4 28W SUPER TBEI LBF LAB	3	63	0.189	4,420	855
200	GIRLS BATH	31.4 TBEI	3	88	0.384	4,420	1,167	31.4 28W SUPER TBEI LBF LAB	3	63	0.189	4,420	855
201	301	11.4 TBEI DBL SWITCHED	12	60	0.270	2,600	702	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.198	2,600	515
202	201	21.4 TBEI DBL SWITCHED	12	30	0.270	2,600	702	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.198	2,600	515
203	201 LAB	31.4 TBEI	12	60	0.540	2,600	1,404	31.4 28W SUPER TBEI LBF LAB	12	42	0.378	2,600	983
204	203	11.4 TBEI DBL SWITCHED	12	60	0.176	2,600	458	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.126	2,600	328
205	203	21.4 TBEI DBL SWITCHED	12	30	0.380	2,600	1,014	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.286	2,600	744
206	205	11.4 TBEI DBL SWITCHED	12	60	0.780	2,600	2,028	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.546	2,600	1,420
207	205	21.4 TBEI DBL SWITCHED	12	30	0.380	2,600	1,014	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.286	2,600	744
208	205 LAB	11.4 TBEI DBL SWITCHED	12	60	0.780	2,600	2,028	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.546	2,600	1,420
209	207	31.4 TBEI	15	88	0.440	2,600	1,144	31.4 28W SUPER TBEI LBF LAB	15	63	0.315	2,600	819
210	207	11.4 TBEI DBL SWITCHED	12	30	0.350	2,600	1,014	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.266	2,600	744
211	208	21.4 TBEI DBL SWITCHED	12	60	0.780	2,600	2,028	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.546	2,600	1,420
212	208	11.4 TBEI DBL SWITCHED	12	30	0.270	2,600	702	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.198	2,600	515
213	209	21.4 TBEI DBL SWITCHED	12	60	0.540	2,600	1,404	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.378	2,600	983
214	209	11.4 TBEI DBL SWITCHED	12	30	0.270	2,600	702	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.198	2,600	515
215	211	21.4 TBEI DBL SWITCHED	12	60	0.540	2,600	1,404	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.378	2,600	983
216	211	11.4 TBEI DBL SWITCHED	12	30	0.360	2,600	936	11.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	22	0.264	2,600	686
217	JUNIOR HS SECOND FLOOR	21.4 TBEI DBL SWITCHED	12	60	0.720	2,600	1,872	21.4 28W SUPER TBEI LBF LAB DBL SWITCHED	12	42	0.504	2,600	1,310

218	HALLWAY	5	21	11.4 TBEI DBL SWITCHED	30	0.630	4.430	2.785	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	21	0.452	4.420	2.042
219	HALLWAY	5	21	21.4 TBEI DBL SWITCHED	60	1.260	4.430	5.599	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	21	0.882	4.420	3.688
220	HALLWAY	5	21	31.4 TBEI DBL SWITCHED	88	0.630	4.430	1.558	31.4 TBEI LBF LAB REFLECTOR KIT	21	0.212	4.420	937
221	233	5	22	11.4 TBEI DBL SWITCHED	30	0.630	2.600	936	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	22	0.264	2.600	686
222	233	5	22	21.4 TBEI DBL SWITCHED	60	0.630	2.600	1.872	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	22	0.504	2.600	1.310
223	233 WORK ROOM	5	23	31.4 TBEI	88	0.630	2.600	686	31.4 280V SUPER TBEI LBF LAB	23	0.189	2.600	431
224	229	5	24	11.4 TBEI DBL SWITCHED	30	0.630	2.600	1.092	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	24	0.308	2.600	891
225	229	5	24	21.4 TBEI DBL SWITCHED	60	0.630	2.600	2.184	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	24	0.588	2.600	1.269
226	228	5	25	11.4 TBEI DBL SWITCHED	30	0.630	2.600	1.216	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	25	0.374	2.600	972
227	228	5	25	21.4 TBEI DBL SWITCHED	60	0.630	2.600	2.652	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	25	0.714	2.600	1.866
228	227	5	26	11.4 TBEI DBL SWITCHED	30	0.630	2.600	780	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	26	0.220	2.600	572
229	227	5	26	21.4 TBEI DBL SWITCHED	60	0.630	2.600	1.940	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	26	0.440	2.600	1.692
230	227 WORK ROOM	5	27	41.4 TBEI	112	0.612	2.600	291	41.4 280V SUPER TBEI LBF LAB	27	0.084	2.600	216
231	STAIRWAY #1	5	28	31.4 TBEI	88	0.630	4.420	1.167	31.4 280V SUPER TBEI LBF LAB	28	0.189	4.420	695
232	STAIRWAY #1	5	28	21.4 TBEI	60	0.630	4.420	2.65	21.4 280V SUPER TBEI LBF LAB	28	0.404	4.420	166
233	224	5	29	11.4 TBEI DBL SWITCHED	30	0.630	2.600	936	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	29	0.264	2.600	686
234	224	5	29	21.4 TBEI DBL SWITCHED	60	0.630	2.600	1.872	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	29	0.504	2.600	1.310
235	223	5	30	11.4 TBEI DBL SWITCHED	30	0.630	2.600	936	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	30	0.264	2.600	686
236	223	5	30	21.4 TBEI DBL SWITCHED	60	0.630	2.600	1.872	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	30	0.504	2.600	1.310
237	BOYS BATH	5	31	31.4 TBEI	88	0.630	4.420	1.167	31.4 280V SUPER TBEI LBF LAB	31	0.189	4.420	695
238	GIRLS BATH	5	31	11.4 TBEI DBL SWITCHED	30	0.630	4.420	1.167	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	31	0.308	4.420	891
239	215	5	32	21.4 TBEI DBL SWITCHED	60	0.630	2.600	380	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	32	0.210	2.600	266
240	215	5	32	31.4 TBEI	88	0.630	2.600	780	31.4 280V SUPER TBEI LBF LAB	32	0.440	2.600	546
241	215 BATH	5	33	11.4 TBEI DBL SWITCHED	30	0.630	2.600	1.092	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	33	0.308	2.600	891
242	213	5	34	21.4 TBEI DBL SWITCHED	60	0.630	2.600	1.872	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	34	0.588	2.600	1.269
243	213	5	34	31.4 TBEI	88	0.630	2.600	936	31.4 280V SUPER TBEI LBF LAB	34	0.189	2.600	431
244	212	5	35	11.4 TBEI DBL SWITCHED	30	0.630	2.600	936	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	35	0.308	2.600	891
245	212	5	35	21.4 TBEI DBL SWITCHED	60	0.630	2.600	1.872	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	35	0.588	2.600	1.269
246	211	5	36	11.4 TBEI DBL SWITCHED	30	0.630	2.600	936	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	36	0.308	2.600	891
247	211	5	36	21.4 TBEI DBL SWITCHED	60	0.630	2.600	1.872	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	36	0.588	2.600	1.269
248	210	5	37	11.4 TBEI DBL SWITCHED	30	0.630	2.600	1.170	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	37	0.330	2.600	858
249	210	5	37	21.4 TBEI DBL SWITCHED	60	0.630	2.600	2.440	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	37	0.630	2.600	1.638
250	CLOSET STORAGE	5	38	41.4 TBEI	112	0.612	1.000	112	41.4 280V SUPER TBEI LBF LAB	38	0.084	1.000	64
251	TECH ED	5	39	11.4 TBEI DBL SWITCHED	30	0.630	1.000	60	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	39	0.042	1.000	42
252	STAIRWAY #3	5	40	21.4 TBEI	60	0.630	4.420	265	21.4 280V SUPER TBEI LBF LAB	40	0.063	4.420	278
253	STAIRWAY #3	5	40	31.4 TBEI	88	0.630	4.420	265	31.4 280V SUPER TBEI LBF LAB	40	0.042	4.420	186
254	STAIRWAY #3	5	41	11.4 TBEI DBL SWITCHED	30	0.630	4.420	265	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	41	0.063	4.420	278
255	205	5	42	21.4 TBEI DBL SWITCHED	60	0.630	2.600	936	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	42	0.264	2.600	686
256	205	5	42	31.4 TBEI	88	0.630	2.600	936	31.4 280V SUPER TBEI LBF LAB	42	0.264	2.600	686
257	205	5	43	11.4 TBEI DBL SWITCHED	30	0.630	2.600	1.872	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	43	0.504	2.600	1.310
258	205	5	43	21.4 TBEI DBL SWITCHED	60	0.630	2.600	936	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	43	0.264	2.600	686
259	204	5	44	11.4 TBEI DBL SWITCHED	30	0.630	2.600	1.872	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	44	0.504	2.600	1.310
260	204	5	44	21.4 TBEI DBL SWITCHED	60	0.630	2.600	936	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	44	0.264	2.600	686
261	GUIDANCE	5	45	31.4 TBEI	88	0.630	2.600	1.872	31.4 280V SUPER TBEI LBF LAB	45	0.042	2.600	1.310
262	STAIRWAY #2	5	46	11.4 TBEI DBL SWITCHED	30	0.630	4.420	778	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	46	0.126	4.420	557
263	STAIRWAY #2	5	46	21.4 TBEI	60	0.630	4.420	778	21.4 280V SUPER TBEI LBF LAB	46	0.126	4.420	557
264	JUNIOR HS FIRST FLOOR	5	47	31.4 TBEI	88	0.630	4.420	265	31.4 280V SUPER TBEI LBF LAB	47	0.042	4.420	186
265	HALLWAY	5	48	11.4 TBEI DBL SWITCHED	30	0.630	4.420	2.652	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	48	0.264	4.420	1.545
266	HALLWAY	5	48	21.4 TBEI DBL SWITCHED	60	0.630	4.420	5.599	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	48	0.882	4.420	3.688
267	HALLWAY	5	49	31.4 TBEI DBL SWITCHED	88	0.630	4.420	3.501	31.4 TBEI LBF LAB REFLECTOR KIT	49	0.212	4.420	2.108
268	130	5	50	11.4 TBEI DBL SWITCHED	30	0.630	2.600	936	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	50	0.264	2.600	686
269	130	5	50	21.4 TBEI DBL SWITCHED	60	0.630	2.600	1.872	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	50	0.504	2.600	1.310
270	130 WORKROOM	5	51	31.4 TBEI	88	0.630	2.600	686	31.4 280V SUPER TBEI LBF LAB	51	0.189	2.600	431
271	136	5	52	11.4 TBEI DBL SWITCHED	30	0.630	2.600	1.170	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	52	0.330	2.600	858
272	136	5	52	21.4 TBEI DBL SWITCHED	60	0.630	2.600	2.440	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	52	0.630	2.600	1.638
273	135	5	53	11.4 TBEI DBL SWITCHED	30	0.630	2.600	1.448	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	53	0.332	2.600	915
274	135	5	53	21.4 TBEI DBL SWITCHED	60	0.630	2.600	2.480	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	53	0.672	2.600	1.747
275	ATHLETIC	5	54	41.4 TBEI	112	0.630	0	0	41.4 280V SUPER TBEI LBF LAB	54	0.252	0	0
276	133	5	55	11.4 TBEI DBL SWITCHED	30	0.630	2.600	898	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	55	0.262	2.600	689
277	133	5	55	21.4 TBEI DBL SWITCHED	60	0.630	2.600	1.716	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	55	0.462	2.600	1.201
278	133 BATH	5	56	31.4 TBEI DBL SWITCHED	88	0.630	1.000	88	31.4 TBEI LBF LAB REFLECTOR KIT	56	0.053	1.000	53
279	130	5	57	11.4 TBEI DBL SWITCHED	30	0.630	2.600	936	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	57	0.264	2.600	686
280	130	5	57	21.4 TBEI DBL SWITCHED	60	0.630	2.600	1.872	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	57	0.504	2.600	1.310
281	JANITORS CLOSET	5	58	31.4 TBEI DBL SWITCHED	88	0.630	1.000	112	31.4 TBEI LBF LAB REFLECTOR KIT	58	0.053	1.000	53
282	GENERAL OFFICE	5	59	11.4 TBEI DBL SWITCHED	30	0.630	4.420	3.501	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	59	0.212	4.420	2.108
283	GENERAL OFFICE	5	59	21.4 TBEI DBL SWITCHED	60	0.630	4.420	3.501	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	59	0.477	4.420	2.707
284	GENERAL OFFICE BATH	5	60	31.4 TBEI	88	0.630	1.000	88	31.4 280V SUPER TBEI LBF LAB	60	0.053	1.000	53
285	ASST PRINCIPLE	5	61	11.4 TBEI DBL SWITCHED	30	0.630	1.000	112	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	61	0.084	1.000	64
286	ASST PRINCIPLE	5	61	21.4 TBEI DBL SWITCHED	60	0.630	1.000	312	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	61	0.084	1.000	64
287	GOY ROOM	5	62	31.4 TBEI DBL SWITCHED	88	0.630	2.600	624	31.4 TBEI LBF LAB REFLECTOR KIT	62	0.168	2.600	437
288	BOYS BATH	5	63	11.4 TBEI DBL SWITCHED	30	0.630	2.600	228	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	63	0.053	1.000	53
289	GIRLS BATH	5	63	21.4 TBEI	60	0.630	4.420	1.167	21.4 280V SUPER TBEI LBF LAB	63	0.189	4.420	695
290	MEETING ROOM	5	64	11.4 TBEI DBL SWITCHED	30	0.630	2.600	224	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	64	0.189	2.600	895
291	MEETING ROOM	5	64	21.4 TBEI DBL SWITCHED	60	0.630	2.600	468	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	64	0.374	2.600	1.72
292	MAINTENANCE GARAGE	5	65	31.4 TBEI	88	0.630	2.600	624	31.4 280V SUPER TBEI LBF LAB	65	0.084	2.600	228
293	MAINTENANCE GARAGE	5	65	41.4 TBEI	112	0.630	2.600	524	41.4 280V SUPER TBEI LBF LAB	65	0.126	2.600	928
294	110	5	66	11.4 TBEI DBL SWITCHED	30	0.630	2.600	1.170	11.4 280V SUPER TBEI LBF LAB DBL SWITCHED	66	0.330	2.600	858
295	110	5	66	21.4 TBEI DBL SWITCHED	60	0.630	2.600	2.440	21.4 280V SUPER TBEI LBF LAB DBL SWITCHED	66	0.630	2.600	1.638
296	CLOSET	5	67	31.4 TBEI	88	0.630	1.000	60	31.4 TBEI LBF LAB	67	0.042	1.000	42
297	LIBRARY STORAGE ROOM	5	68	41.4 TBEI	112	0.630	1.000	112	41.4 280V SUPER TBEI LBF LAB	68	0.084	550	42

296	105	5'	1.4' T8EL DBL SWITCHED	30	0.980	2,650	936	1.4' 28W SUPER T8EL L8B DBL SWITCHED	22	0.264	2,600	686	
299	105	5'	2.4' T8EL DBL SWITCHED	60	0.720	2,650	1,872	2.4' 28W SUPER T8EL L8B DBL SWITCHED	42	0.504	2,600	1,310	
300	104	5'	1.4' T8EL DBL SWITCHED	30	0.980	2,650	936	1.4' 28W SUPER T8EL L8B DBL SWITCHED	22	0.264	2,600	686	
301	104	5'	2.4' T8EL DBL SWITCHED	60	0.720	2,650	1,872	2.4' 28W SUPER T8EL L8B DBL SWITCHED	42	0.504	2,600	1,310	
302	103	5'	1.4' T8EL DBL SWITCHED	30	0.980	2,650	936	1.4' 28W SUPER T8EL L8B DBL SWITCHED	22	0.264	2,600	686	
303	103	5'	2.4' T8EL DBL SWITCHED	60	0.720	2,650	1,872	2.4' 28W SUPER T8EL L8B DBL SWITCHED	42	0.504	2,600	1,310	
304	ADMINISTRATION BUILDING												
305	GARAGES	5'	2.4' T8EL HO LP L8B	86	0.000	1,000	0	NO CHANGE	53	0.053	1,000	0	
306	OPEN OFFICE AREA	5'	3.4' T8EL BIAI LAMPS	88	0.018	2,600	1,802	3.4' T8EL L8B REFLECTOR KIT	63	0.371	2,600	965	
307	OPEN OFFICE AREA	5'	3.4' T8EL	88	0.018	2,600	458	3.4' 28W SUPER T8EL L8B	63	0.371	2,600	276	
308	OFFICES	5'	3.4' T8EL	88	0.018	2,600	1,373	3.4' 28W SUPER T8EL L8B	63	0.378	1,500	597	3
309	OFFICES	5'	2.4' T8EL UL-LAMP	60	0.060	2,600	156	3.2' T8EL L8B REFLECTOR KIT	53	0.053	1,500	90	
310	CONFERENCE ROOM	5'	3.4' T8EL	88	0.018	1,200	211	3.4' 28W SUPER T8EL L8B	63	0.126	750	95	1
311	BACK ENTRY	5'	2.4' T8EL UL-LAMP	60	0.060	2,600	156	3.2' T8EL L8B REFLECTOR KIT	53	0.053	2,600	138	
312	KITCHENETTE	5'	3.4' T8EL	88	0.068	1,200	106	3.4' 28W SUPER T8EL L8B	63	0.063	750	47	1
313	BATH	5'	2.4' T8EL UL-LAMP	60	0.060	1,000	60	3.2' T8EL L8B REFLECTOR KIT	53	0.053	1,000	53	
314	ENTRANCE	5'	3.4' T8EL BIAI LAMPS	88	0.088	2,600	229	3.2' T8EL L8B REFLECTOR KIT	53	0.053	2,600	138	
				2535	148,702		487,687.72		2535		102,347	291,030.80	54

TOTAL SAVINGS		Energy	\$
kWh	171,632	\$31,339.99	@ \$0.1826 / kWh*
kW	47.355		
Total Project Cost			
National Grid Incentive		\$145,570.54	
Out-of-Pocket Cost		\$81,210.50	
Non-Electrical Savings		\$54,360.04	
Effective Cost		\$9,031.03	
Effective Payback:		1.4	Yrs.

* Massachusetts Dept of Public Utilities default rate plus estimated delivery charges
 TR / 10, longer term & 20,000 hour rated life
 Ballasts have an average useful life of 10 years.



*providing a full spectrum of
energy conservation services*

440B East Squantum Street Quincy, MA 02171
T 617 328-9896 F 617 328-0496
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**Overview of Emissions Reductions
Presented to:**

MILLBURY HIGH SCHOOL

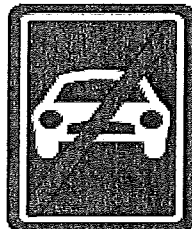
Existing kWh/yr
462,663

Proposed kWh/yr
291,031

Energy Saved
171,632

Prevented CO2 Emissions
266,029 lbs/yr

*Equivalent to removing CO2 emissions from
23 Cars!*





ENERGY SERVICES

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ENERGY EFFICIENT LIGHTING SYSTEM UPGRADE PROPOSAL
NATIONAL GRID ACCELERATED LIGHTING PROGRAM

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T 617-328-9896 ▲ F 617-328-0496

www.prismconsultinginc.com

CUSTOMER NAME: MILLBURY HIGH SCHOOL
ADDRESS: 12 MARTIN ST
MILLBURY, MA 01527
CONTACT: RICHARD BEDARD
PHONE: 508-865-9501
ACCOUNT #: 78362-70008

Auditor: PAUL HURLEY
Prism Consulting, Inc.
Date: 8/13/2009

PROJECT SUMMARY

AREA	REPLACEMENT DESCRIPTION	QTY	TOTAL COST	UNIT COST	NATIONAL GRID INCENTIVE	OUT-OF-POCKET EXPENSE
FACULTY, BAND, 113 & 114	11/2" T8/EL LBF L&B REFLECTOR KIT DBL SWITCHED	20	\$934.18	\$46.71	\$0.00	\$934.18
THROUGHOUT CLASSROOMS	11/4" 28W SUPER T8/EL LBF L&B DBL SWITCHED	907	\$40,620.00	\$44.79	\$29,931.00	\$10,689.00
FACULTY, BAND, 113 & 114	21/2" T8/EL LBF L&B REFLECTOR KIT DBL SWITCHED	20	\$873.86	\$43.69	\$2,280.00	(\$1,406.14)
MISC AREAS	21/4" 28W SUPER T8/EL LBF L&B	154	\$7,425.42	\$48.22	\$5,082.00	\$2,343.42
THROUGHOUT CLASSROOMS	21/4" 28W SUPER T8/EL LBF L&B DBL SWITCHED	908	\$43,781.04	\$48.22	\$29,964.00	\$13,817.04
THROUGHOUT	31/2" T8/EL LBF L&B REFLECTOR KIT	223	\$12,100.43	\$54.26	\$0.00	\$12,100.43
KITCHEN, NURSE, BATHS, STAIRS, AND MISC AREAS	31/4" 28W/SUPER T8/EL LBF L&B	194	\$10,196.45	\$52.56	\$6,402.00	\$3,794.45
GYM	41/4FT T5 HO FIXTURE W/ELNS & WRGUARD	24	\$10,491.62	\$437.15	\$5,040.00	\$5,451.62
TECH, STAGE, AND MISC AREAS	41/4" 28W SUPER T8/EL LBF L&B	85	\$4,908.41	\$57.75	\$2,805.00	\$2,103.41
THROUGHOUT	IVORY WALL SENSOR	5	\$386.50	\$79.30	\$220.00	\$176.50
THROUGHOUT	WHITE WALL SENSOR	25	\$1,952.50	\$79.30	\$1,012.00	\$970.50
GYM	T5 UNIT SENSOR	24	\$2,028.00	\$84.50	\$2,112.00	(\$84.00)
ESTIMATED LIFT RENTAL COST			\$895.83		\$0.00	\$895.83
ESTIMATED FLUORESCENT BALLAST RECYCLING COST			\$5,362.50		\$5,362.50	\$0.00
ESTIMATED FLUORESCENT LAMP RECYCLING COST			\$1,837.82		\$0.00	\$1,837.82
ESTIMATED H.I.D. BALLAST RECYCLING COST			\$156.00		\$0.00	\$156.00
ESTIMATED H.I.D. LAMP RECYCLING COST			\$160.00		\$0.00	\$160.00
ESTIMATED PERMIT FEE			\$420.00		\$0.00	\$420.00
TOTALS, INCLUDING SENSORS		2569	\$145,570.54	N/A	\$91,210.60	\$54,360.04

Incentive as percent of total cost: 63%

Please refer to facility audit for a location by location proposal.

INCENTIVES ARE ESTIMATED AND SUBJECT TO NATIONAL GRID APPROVAL BEFORE INSTALLATION CAN BEGIN
PROPOSAL ASSUMES FLUORESCENT BALLAST DISPOSAL BY NATIONAL GRID UNDER ACCELERATED LIGHTING PROGRAM
DISPOSAL OF ALL LAMPS AND METAL HALIDE BALLASTS REMOVED ARE INCLUDED
PROPOSAL ASSUMES DISPOSAL OF OTHER PROJECT DEBRIS IN OWNER'S DUMPSTER OR A DUMPSTER CAN BE PROVIDED AT COST
PERMIT FEE IS ESTIMATED AND WILL BE BILLED AT FACE VALUE
ADDITIONAL ITEMS WILL BE INVOICED AT THE APPROVED UNIT COSTS AT THE END OF THE PROJECT
CUSTOMER IS RESPONSIBLE TO PROVIDE ACCESS TO ALL AREAS FOR INSTALLATION
NO EMERGENCY BACKUP BALLASTS INCLUDED IN PROPOSAL

Proposal firm through 11/11/2009

30% retainer is due upon execution of contract

\$43,671.16

Please authorize work for: MILLBURY HIGH SCHOOL

by signing below

Susan P. Hitebeort
Authorized Signature

Superintendent
Title
Date: 8/13/09

SIGN HERE

Energy Initiative

Signatures

nationalgrid

Customer Report: TOWN OF MILLBURY

Application No:

Report Date: 08-13-2009

Customer's Acknowledgement

I certify that all statements made in this Customer Report, are correct to the best of my knowledge and that I have reviewed the Customer Report and the measures proposed and acknowledge they are appropriate for the type and purpose of the facility in which they will be installed. I also certify that I have read the Terms & Conditions on the back of the Customer Report and agree to them, including those provisions regarding warranties, and I further understand and acknowledge that the offer to pay incentives is also subject to those Terms & Conditions.

Customer Signature:

Date:

Name: (print)

Phone:

Vendor/Contractor's Acknowledgement

I represent to the Company that I have reviewed the Customer Report, attachments, and the measures proposed. They are, in my professional opinion, appropriate for the type and purpose of the facility in which they will be installed. The information contained in this Customer Report is true and accurate to the best of my knowledge.

Vendor Signature:

Date:

Name: (print)

Company Name:

Certification of Installation

I certify that I have seen the conservation measure that have been installed, and I am satisfied with their installation.

Customer Signature:

Date:

Name: (print)

Customer/Engineer/Vendor Certification

TO BE COMPLETED BY PERSON MOST RESPONSIBLE FOR DESIGN AND SAVINGS CALCULATION.

I certify to the Company that I have reviewed the measures and calculations proposed in this Customer Report. They are, in my professional opinion, appropriate for the type and purpose of the facility in which they will be installed. The information contained in this Customer Report is true, accurate, and complete to the best of my knowledge.

Signature:

Name: (print)

Company Name:

Street Address:

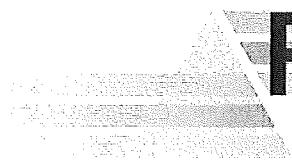
City/State/Zip:

Registration No:

Phone:

Date:

Professional Engineer Stamp



PRISM

CONSULTING, INC.

*providing a full spectrum of
energy conservation services*

**PROPOSAL FOR
ENERGY SAVING LIGHTING MEASURES**

**NATIONAL GRID
MUNICIPAL FINANCING PROGRAM**

\$55,122.50

IN REBATES!

Submitted August 28th, 2009 to:

ELMWOOD STREET ELEMENTARY SCHOOL

**MILLBURY
PUBLIC SCHOOLS**

12 Martin Street | Millbury, MA 01527
District Office: 508.865.9501
www.millbury.k12.ma.us



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COMMONWEALTH
INSTITUTE

Prism Consulting, Inc.

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"The Next Ten"

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August 28, 2009

Mr. Richard Bedard
Elmwood Elementary School
40 Elmwood St.
Millbury, MA 01527

RE: Lighting Analysis and Energy Cost Savings Proposal

Dear Richard,

Thank you for your interest in energy conservation. As requested our auditor and Vice-President of Field Operations, Paul Hurley, prepared the enclosed lighting savings analyses and proposals. The proposals are based on audits conducted on August 18, 2009. The proposals consist primarily of lamp and ballast retrofits. This recommendation offers the most cost-effective option resulting in the most savings for the least cost. The results of our analysis show...

- ✓ You can save approximately \$30,654.21 per year on your electric bill by installing new, state-of-the-art lighting equipment. You will also experience a single avoided maintenance cost of \$5,436.86.
- ✓ National Grid will pay 61% of the cost (parts and labor) of the installed energy efficient lighting (rebates are prescriptive and subject to National Grid approval).
- ✓ While this lighting upgrade is valued at \$90,167.74, your contribution is \$35,045.24.
- ✓ The rapid payback of your lighting investment is 1.0 year.

Please refer to the audit/savings analysis for a detailed breakdown of the proposal or call Paul Hurley at 508-987-1262 with specific questions. Rebates are estimated and subject to utility approval. Based on our experience, we are confident that our proposal will meet the eligibility criteria pending the availability of funds within each program. If you are interested in proceeding, we will contact the utility for each project of interest to submit a rebate application on your behalf.

In reviewing these results please consider the following benefits of the rebate application programs...

- ✓ *Realize significant cost savings on your electric bill each year*
- ✓ *Receive new, state-of-the art lighting components (a capital improvement) at a significant discount*

- ✓ *Enhance the facility environment, improving visibility, safety and aesthetics while saving money at the same time.*
- ✓ *Installation provided by Prism Consulting, Inc.'s licensed and qualified subcontractors. The project will be professionally designed and managed by Prism's own project management team. Prism's team has been selected by National Grid and other utilities as exclusive Vendors for the Small and Large Business Energy Efficiency Programs due to our comprehensive capabilities in the areas of energy efficient lighting and project management.*
- ✓ *Installation scheduled at your convenience with little or no disruption to the facility*

TO BEGIN SAVING MONEY ON YOUR LIGHTING BILL, SIMPLY...

1. **REVIEW** the enclosed Agreement and Proposal
2. **SIGN** at the bottom
3. **INCLUDE CHECK FOR 30% RETAINER** in the amount of: \$27,050.32.
4. **MAIL AGREEMENT AND CHECK TO: PRISM CONSULTING, INC., 440B E. SQUANTUM STREET QUINCY, MA 02171**

The full details of our Lighting Analysis are enclosed. We look forward to discussing our Energy Cost Savings Proposal with you - please call us at **617-328-9896**. We'd be pleased to further discuss the specific cost savings and energy benefits for your facility. *We hope you will take advantage of these valuable energy and money-saving measures.*

As soon as the signed agreement is received, your materials will be ordered and the installation at each facility will be scheduled at your convenience. The lead-time on the materials is approximately three weeks. Upon delivery of the materials, our subcontractor will call you directly to schedule a date and time.

We at Prism Consulting, Inc. sincerely appreciate your time and interest in conserving energy.

Sincerely,

Wendy Simmons
President

Executive Overview of Lighting Upgrade Proposal
Presented to:

ELMWOOD ELEMENTARY SCHOOL

Total Project Cost
\$90,167.74

Utility Incentive
\$55,122.50

Total out of Pocket
\$35,045.24

Avoided Maintenance Savings
\$5,436.86

Effective Cost
\$29,608.38

Annual Energy Savings
\$30,654.21

Estimated Monthly Payments
\$1,460.22

Estimated Monthly Savings
\$2,554.52

Effective Payback
1.0 years

Cashflow gains after 5 years
\$123,662.65

Annual Return on Investment
104%

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4408 East Squantum Street Quincy, MA 02171
Tel: 617 238-6896 Fax: 617 238-0486
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**AUDIT AND SAVINGS ANALYSIS
NATIONAL GRID MUNICIPAL FINANCING PROGRAM**

CUSTOMER NAME: ELWOOD ELEMENTARY SCHOOL
ADDRESS: 40 ELWOOD ST
MILBURY, MA 01527
CONTACT: RICHARD BEARD
PHONE: 508-855-8601
FAX: 508-855-0888
ACCOUNT #: 0063211008

Auditor: PAUL HURLEY
Prism Consulting, Inc.
Audit Date: 8/18/2009

LINE	ROOM	HT	DESCRIPTION LAMP/BALLAST	EXISTING			HRS/YR	DECOMPOSITION LAMP/BALLAST	PROPOSED			CONTROLS		
				FIXTURE QTY	WATTS/ FIXTURE	NW			FIXTURE QTY	WATTS/ FIXTURE	NW	HRS/YR	TYPE	QUANTITY
1	MAIN OFFICE	9'	3.4" T8EL	9	88	0.792	3,640	2,483	9	55	0.495	3,640	1,802	
2	PRINCIPLES OFFICE	9'	3.2" BIAI FIXTURE	4	88	0.352	2,860	1,007	4	53	0.212	1,500	318	WALL-I
3	ASST PRINCIPLES OFFICE	9'	3.2" BIAI FIXTURE	4	88	0.352	2,860	1,007	4	53	0.212	1,500	318	WALL-I
4	COPY ROOM	9'	3.2" BIAI FIXTURE	4	88	0.352	2,860	1,007	4	53	0.212	1,500	318	WALL-I
5	STORAGE CLOSET	9'	2.4" T8EL	3	60	0.180	2,000	360	3	37	0.111	750	83	WALL-I
6	CONFERENCE ROOM	9'	3.4" T8EL	3	88	0.284	2,000	528	3	55	0.155	1,000	165	WALL-I
7	GUIDANCE OFFICE	9'	3.4" T8EL	2	88	0.176	2,000	328	2	55	0.110	1,000	110	WALL-I
8	NURSE	9'	3.4" T8EL	0	88	0.792	2,860	2,265	2	55	0.495	2,860	1,416	
9	KITCHEN HALLWAY	9'	3.4" T8EL	3	88	0.284	6,188	1,634	3	55	0.165	6,188	1,021	
10	LIBRARY HALLWAY	9'	3.4" T8EL	3	88	0.284	6,188	1,634	3	55	0.165	6,188	1,021	
11	LIBRARY	9'	2.4" T8EL	54	60	3,240	2,860	9,266	54	37	1,988	2,860	5,714	
12	LIBRARY COMMUNITY ROOM	9'	3.4" T8EL	12	88	1,056	6,188	6,535	12	55	0.660	6,188	4,084	
13	LIBRARY OFFICE	9'	3.4" T8EL	2	88	0.176	2,000	352	2	55	0.110	1,000	110	WALL-I
14	LIBRARY STORAGE	9'	2.4" T8EL	2	112	0.224	2,000	448	2	74	0.148	750	111	WALL-I
15	LIBRARY STORAGE	9'	2.4" T8EL	1	60	0.060	2,000	120	1	37	0.037	750	28	WALL-I
16	STARWELL #1	9'	3.2" BIAI FIXTURE	7	88	0.616	6,760	5,386	7	53	0.371	8,760	3,250	
17	STARWELL #1	9'	4.4" T8EL	1	112	0.112	8,760	881	1	74	0.074	8,760	648	
18	LADIES ROOM	9'	2.4" T8EL	3	60	0.180	2,000	360	3	37	0.111	2,000	222	
19	MENS ROOM	9'	2.4" T8EL	3	60	0.180	2,000	360	3	37	0.111	2,000	222	
20	STORAGE IN KITCHEN	9'	3.4" T8EL	3	112	0.336	2,000	672	3	74	0.222	2,000	444	
21	KITCHEN	9'	3.4" T8EL	23	60	2,024	2,860	9,768	23	55	1,265	2,860	3,618	
22	KITCHEN STORAGE #1	9'	2.4" T8EL	1	60	0.060	2,000	120	1	37	0.037	750	28	WALL-I
23	KITCHEN STORAGE #2	9'	2.4" T8EL	3	60	0.180	2,000	360	3	37	0.111	750	83	WALL-I
24	KITCHEN STORAGE #2	9'	3.4" T8EL	2	88	0.176	2,000	352	2	55	0.110	750	83	WALL-I
25	KITCHEN OFFICE	9'	3.4" T8EL	1	88	0.088	2,000	176	1	55	0.055	750	41	WALL-I
26	KITCHEN BACK HALLWAY	9'	3.4" T8EL	1	88	0.088	2,860	252	1	55	0.055	2,860	157	
27	KITCHEN BACK HALLWAY	9'	2.4" T8EL	2	60	0.120	2,860	343	2	37	0.074	2,860	212	
28	KITCHEN BATH	9'	3.4" T8EL	1	88	0.088	1,000	88	1	55	0.055	1,000	55	
29	CHILLER ROOM	9'	4.4" T8EL	4	112	0.448	2,000	866	4	74	0.296	2,000	592	
30	AFTER CARE OFFICE	9'	3.4" T8EL	1	88	0.088	2,000	176	1	55	0.055	750	41	WALL-I
31	CUSTODIAL OFFICE	9'	2.4" T8EL	4	60	0.240	2,000	480	4	37	0.148	2,000	206	
32	GARAGE	9'	4.4" T8EL	3	112	0.336	2,000	672	3	74	0.222	2,000	444	
33	BOLER ROOM	9'	4.4" T8EL	5	112	0.672	2,000	1,344	5	74	0.444	2,000	888	
34	CAFE	16'	2.4" T8EL	132	60	7,920	2,860	22,864	132	37	4,864	2,860	13,988	
35	STAGE	16'	2.4" T8EL	7	60	0.420	2,860	1,201	7	37	0,259	2,860	741	
36	STARWELL #3	9'	3.2" BIAI FIXTURE	4	88	0.352	8,760	3,084	4	53	0.212	8,760	1,857	
37	STARWELL #3	9'	4.4" T8EL	1	112	0.112	8,760	881	1	74	0.074	8,760	648	
38	KINDERGARTEN HALLWAY	9'	3.4" T8EL	18	88	1,584	6,188	9,802	18	55	0,380	6,188	6,128	
39	KINDERGARTEN HALLWAY	9'	3.2" BIAI FIXTURE	1	88	0.088	6,188	545	1	53	0.053	6,188	328	
40	B102	9'	2.4" T8EL	17	60	1,020	2,860	2,917	17	37	0,629	2,860	1,799	
41	B102	9'	1.4" T8EL	2	30	0.060	2,860	132	2	20	0.040	2,860	114	
42	B102 BATH	9'	3.4" T8EL	1	88	0.088	1,450	132	1	55	0.055	1,500	83	
43	B102 BATH	9'	2.4" T8EL	3	60	0.180	1,450	270	3	37	0.111	1,500	167	
44	B104	9'	2.4" T8EL	17	60	1,020	2,860	2,917	17	37	0,629	2,860	1,799	
45	B104	9'	1.4" T8EL	2	30	0.060	2,860	132	2	20	0.040	2,860	114	
46	B105	9'	2.4" T8EL	17	60	1,020	2,860	2,917	17	37	0,629	2,860	1,799	
47	B105	9'	1.4" T8EL	2	30	0.060	2,860	132	2	20	0.040	2,860	114	
48	B105 BATH	9'	3.4" T8EL	1	88	0.088	1,500	132	1	55	0.055	1,500	83	
49	B105 BATH	9'	2.4" T8EL	3	60	0.180	1,500	270	3	37	0.111	1,500	167	
50	B107	9'	2.4" T8EL	17	60	1,020	2,860	2,917	17	37	0,629	2,860	1,799	
51	B107	9'	1.4" T8EL	2	30	0.060	2,860	132	2	20	0.040	2,860	114	
52	B108	9'	2.4" T8EL	17	60	1,020	2,860	2,917	17	37	0,629	2,860	1,799	
53	B108	9'	1.4" T8EL	2	30	0.060	2,860	132	2	20	0.040	2,860	114	

54	B108 BATH	3'	3.4' TBE	1	88	0.088	1,500	132	3.4' 25W/SUPER TBE LBF LAB	1	55	0.055	1,500	83
55	B108 BATH	3'	2.4' TBE	3	60	0.180	1,500	270	2.4' 25W SUPER TBE LBF LAB	3	37	0.111	1,500	167
56	B110	3'	2.4' TBE	17	60	1.020	2,860	2,917	2.4' 25W SUPER TBE LBF LAB	17	37	0.959	2,860	1,199
57	B110	3'	1.4' TBE	3	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.540	2,860	114
58	STARWELL #4	3'	3.2' BIA FXTURE	4	88	0.352	8,760	3,084	3.2' TBE LBF RE TO KIT	4	53	0.212	8,760	1,657
59	GYM	24'	4.4' TBE	1	112	0.112	8,760	981	4.4' 25W SUPER TBE LBF LAB	1	74	0.074	8,760	648
60	GYM STORAGE	3'	360 W MH	34	400	9,600	59,405		4.4' FT TO HO FUTURE WALNS	24	232	5,658	1,500	8,352
61	GYM STORAGE	3'	4.4' TBE	3	112	0.336	2,000	120	3.4' 25W SUPER TBE LBF LAB	3	74	0.222	2,000	444
62	GYM STORAGE	3'	2.4' TBE	1	60	0.060	2,000	362	3.4' 25W SUPER TBE LBF LAB	1	37	0.037	2,000	74
63	GYM OFFICE	3'	3.4' TBE	2	88	0.176	2,000	362	3.4' 25W SUPER TBE LBF LAB	2	55	0.110	750	83
64	GYM OFFICE	3'	3.2' BIA FXTURE	3	88	0.088	2,000	176	3.2' TBE LBF RETRO KIT	1	53	0.063	750	40
65	OT	3'	3.4' TBE	3	88	0.264	1,500	366	3.4' 25W/SUPER TBE LBF LAB	3	55	0.165	1,500	248
66	PROGRAM STORAGE	3'	4.4' TBE	2	112	0.224	2,000	872	4.4' 25W SUPER TBE LBF LAB	2	74	0.222	2,000	444
67	CUSTODIAL OFFICE	3'	4.4' TBE	3	112	0.336	2,000	448	4.4' 25W SUPER TBE LBF LAB	3	74	0.222	2,000	444
68	MEN'S LOCKER ROOM	3'	3.4' TBE	1	88	0.188	6,188	545	3.4' 25W SUPER TBE LBF LAB	1	55	0.055	6,188	340
69	MEN'S LOCKER ROOM	3'	3.4' TBE	2	112	0.224	6,188	1,366	4.4' 25W SUPER TBE LBF LAB	2	74	0.148	6,188	916
70	LADIES LOCKER ROOM	3'	3.4' TBE	1	88	0.088	6,188	1,366	3.4' 25W SUPER TBE LBF LAB	1	55	0.055	6,188	340
71	LADIES LOCKER ROOM	3'	4.4' TBE	1	88	0.088	6,188	1,366	4.4' 25W SUPER TBE LBF LAB	1	55	0.055	6,188	340
72	STARWELL #5	3'	3.2' BIA FXTURE	2	112	0.224	8,760	1,542	3.2' TBE LBF RE TO KIT	2	53	0.106	8,760	929
73	POWER ROOM	3'	4.4' TBE	1	112	0.112	2,000	981	4.4' 25W SUPER TBE LBF LAB	1	74	0.074	2,000	148
74	POWER ROOM	3'	2.4' TBE	2	60	0.120	2,000	362	2.4' 25W SUPER TBE LBF LAB	2	37	0.074	2,000	148
75	STAIRWAY LOBBY	3'	3.4' TBE	1	112	0.112	2,000	362	3.4' 25W SUPER TBE LBF LAB	1	55	0.075	2,000	148
76	B108 HALLWAY	3'	3.4' TBE	5	88	0.440	6,188	9,257	3.4' 25W SUPER TBE LBF LAB	5	55	0.935	6,188	5,768
77	B108 HALLWAY	3'	3.4' TBE	17	88	1.496	6,188	9,257	2.4' 25W SUPER TBE LBF LAB	17	55	0.935	6,188	5,768
78	B108 HALLWAY	3'	1.4' TBE	20	60	1.200	2,860	3,432	1.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
79	B125	3'	2.4' TBE	2	30	0.060	2,860	172	2.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
80	B125	3'	2.4' TBE	20	60	1.200	2,860	3,432	1.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
81	B124	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
82	B124	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
83	B123	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
84	B123	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
85	B122	3'	2.4' TBE	20	60	1.200	2,860	3,432	1.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
86	B122	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
87	B121	3'	1.4' TBE	2	30	0.060	2,860	172	2.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
88	B121	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
89	B121	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
90	MUSIC ROOM	3'	2.4' TBE	24	60	1.440	2,860	4,118	2.4' 25W SUPER TBE LBF LAB	24	37	0.888	2,860	2,540
91	ART ROOM	3'	2.4' TBE	20	60	1.200	2,860	4,118	2.4' 25W SUPER TBE LBF LAB	20	37	0.888	2,860	2,540
92	B115	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
93	B117	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
94	B117	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
95	B118	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
96	B118	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
97	B119	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
98	B119	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
99	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
100	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
101	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
102	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
103	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
104	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
105	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
106	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
107	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
108	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
109	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
110	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
111	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
112	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
113	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
114	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
115	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
116	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
117	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
118	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
119	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
120	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
121	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
122	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
123	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
124	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
125	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
126	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
127	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
128	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
129	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
130	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
131	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
132	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
133	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
134	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
135	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
136	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
137	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
138	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172	1.4' 25W SUPER TBE LBF LAB	2	20	0.040	2,860	114
139	STAIRWAY LOBBY	3'	2.4' TBE	20	60	1.200	2,860	3,432	2.4' 25W SUPER TBE LBF LAB	20	37	0.740	2,860	2,116
140	STAIRWAY LOBBY	3'	1.4' TBE	2	30	0.060	2,860	172</						

130	MENS BATH	9'	4.4' TBEI	1	112	0.112	2,850	320	1	74	0.074	2,850	272	
131	MENS BATH	9'	2.4' TBEI	1	60	0.060	1,500	30	1	37	0.037	1,500	56	
132	LADIES BATH	9'	4.4' TBEI	1	112	0.112	2,850	320	1	74	0.074	2,850	272	
133	LADIES BATH	9'	2.4' TBEI	1	60	0.060	1,500	30	1	37	0.037	1,500	56	
134	CUSTODIANS ROOM	9'	4.4' TBEI	1	112	0.112	1,500	168	1	74	0.148	500	37	WALL-1
135	PROGRAM STORAGE	9'	4.4' TBEI	2	112	0.224	1,500	336	2	74	0.148	500	37	WALL-1
137	B215	9'	2.4' TBEI	2	60	0.120	2,850	180	2	37	0.074	500	37	WALL-1
138	B216	9'	1.4' TBEI	20	30	0.060	2,850	3,432	20	37	0.074	2,850	216	
140	B216	9'	1.4' TBEI	20	30	0.060	2,850	3,432	20	37	0.074	2,850	216	
141	B217	9'	2.4' TBEI	20	30	0.060	2,850	172	20	37	0.074	2,850	216	
142	B217	9'	1.4' TBEI	20	30	0.060	2,850	172	20	37	0.074	2,850	216	
143	B218	9'	2.4' TBEI	15	60	0.060	2,850	172	15	37	0.068	2,850	114	
144	B215	9'	2.4' TBEI	15	60	0.060	2,850	3,088	15	37	0.068	2,850	1,305	
145	B220	9'	2.4' TBEI	20	60	0.120	2,850	3,432	20	37	0.068	2,850	1,305	
146	B220	9'	1.4' TBEI	20	60	0.120	2,850	172	20	37	0.068	2,850	1,305	
147	BOYS BATH	9'	4.4' TBEI	3	112	0.336	2,850	961	3	74	0.222	2,850	114	
148	READING ROOM	9'	2.4' TBEI	12	60	0.120	2,850	1,888	12	74	0.074	2,850	212	
151	MENS ROOM	9'	3.2' BIA EXTURE	4	88	0.352	2,850	2,069	4	74	0.222	2,850	635	
152	CUSTODIANS ROOM	9'	4.4' TBEI	1	112	0.112	2,850	320	1	74	0.074	2,850	212	
153	LADIES ROOM	9'	4.4' TBEI	1	112	0.112	2,850	320	1	74	0.074	2,850	212	
154	ROOF ACCESS HALLWAY	9'	4.4' TBEI	3	112	0.336	2,850	961	3	74	0.222	2,850	635	
155	TEACHERS DINING ROOM	9'	2.4' TBEI	12	60	0.120	2,850	2,069	12	74	0.074	2,850	212	
156	WORK ROOM	9'	1.4' TBEI	2	30	0.060	2,850	172	2	37	0.044	2,850	120	
157	WORK ROOM	9'	2.4' TBEI	2	30	0.060	2,850	172	2	37	0.044	2,850	120	
158	PUPIL SERVICES	9'	1.4' TBEI	2	30	0.060	2,850	172	2	37	0.044	2,850	120	
159	PUPIL SERVICES	9'	3.4' TBEI	2	68	0.176	2,850	501	2	55	0.110	1,200	132	WALL-1
160	PUPIL SERVICES OFFICE	9'	3.4' TBEI	2	68	0.176	2,850	501	2	55	0.110	1,200	132	WALL-1
161	FOOD ALLERGY CLASSROOM	9'	2.4' TBEI	20	60	0.120	2,850	3,432	20	37	0.074	2,850	216	
162	FOOD ALLERGY CLASSROOM	9'	1.4' TBEI	20	60	0.120	2,850	3,432	20	37	0.074	2,850	216	
163	FOOD ALLERGY CLASSROOM	9'	2.4' TBEI	2	112	0.224	2,850	641	2	74	0.148	1,000	148	WALL-1
164	IF ROOM	9'	2.4' TBEI	15	60	0.060	2,850	3,088	15	37	0.068	2,850	1,305	
165	B221	9'	2.4' TBEI	15	60	0.060	2,850	3,088	15	37	0.068	2,850	1,305	
166	B222	9'	2.4' TBEI	20	60	0.120	2,850	3,432	20	37	0.074	2,850	216	
167	B223	9'	2.4' TBEI	20	60	0.120	2,850	3,432	20	37	0.074	2,850	216	
168	B224	9'	2.4' TBEI	20	60	0.120	2,850	3,432	20	37	0.074	2,850	216	
169	B225	9'	2.4' TBEI	20	60	0.120	2,850	3,432	20	37	0.074	2,850	216	
170	B225	9'	2.4' TBEI	20	60	0.120	2,850	3,432	20	37	0.074	2,850	216	
171	B225	9'	2.4' TBEI	20	60	0.120	2,850	3,432	20	37	0.074	2,850	216	
172	B226	9'	2.4' TBEI	20	60	0.120	2,850	3,432	20	37	0.074	2,850	216	
173	B226	9'	1.4' TBEI	2	30	0.060	2,850	172	2	37	0.044	2,850	114	
										1361	61.639	190,516.92	49	

TOTAL SAVINGS		Energy	\$
kWh	167,876	\$30,654.21	@ 50.1625 / kWh
kW	37.565		
Total Project Cost		\$90,167.74	
National Grid Incentive		\$55,122.50	
Out-of-Pocket Cost		\$35,045.24	
Non-Electrical Savings		\$5,436.86	
Effective Cost		\$29,608.38	
Effective Payback:		1.0 yrs.	

* Massachusetts Dept. of Public Utilities default rate plus estimated delivery charges
 TB / TS units have a 20,000 hour rated life.
 Ballasts have an average useful life of 10 years.



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***Overview of Emissions Reductions
Presented to:***

ELMWOOD ELEMENTARY SCHOOL

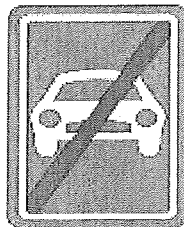
*Existing kWh/yr
358,393*

*Proposed kWh/yr
190,517*

*Energy Saved
167,876*

***Prevented CO2 Emissions
260,208 lbs/yr***

***Equivalent to removing CO2 emissions from
23 Cars!***



**ENERGY EFFICIENT LIGHTING SYSTEM UPGRADE PROPOSAL
NATIONAL GRID MUNICIPAL FINANCING PROGRAM**

CUSTOMER NAME: ELMWOOD ELEMENTARY SCHOOL
ADDRESS: 40 ELMWOOD ST.
MILLBURY, MA. 01527
CONTACT: RICHARD BEDARD
PHONE: 508-865-9501
ACCOUNT #: 9083211008

Auditor: PAUL HURLEY
Prism Consulting, Inc.
Date: 8/28/2009

PROJECT SUMMARY

AREA	REPLACEMENT DESCRIPTION	QTY	TOTAL COST	UNIT COST	NATIONAL GRID INCENTIVE	OUT-OF-POCKET EXPENSE
B 126 HALL, WORK RM, PUPIL SVCS, & CLASSROOMS	1L4' 25W SUPER T8/EL LBF L&B	64	\$2,912.83	\$45.51	\$2,112.00	\$800.83
BATHROOMS, CLASSROOMS, AND MISC AREAS	2L4' 25W SUPER T8/EL LBF L&B	983	\$49,084.14	\$49.93	\$32,439.00	\$16,645.14
PRINCIPALS OFFICE, STAIRWELLS AND MISC AREAS	3L2' T8/EL LBF RETRO KIT	37	\$2,277.54	\$61.56	\$0.00	\$2,277.54
LIBRARY, KITCHEN, AND MISC AREAS	3L4' 25W/SUPER T8/EL LBF L&B	197	\$10,861.20	\$55.13	\$6,501.00	\$4,360.20
GYM	4L 4FT T5 HO FIXTURE W/LENS	24	\$10,020.19	\$417.51	\$5,040.00	\$4,980.19
MISC THROUGHOUT	4L4' 25W SUPER T8/EL LBF L&B	76	\$5,459.69	\$71.84	\$2,508.00	\$2,951.69
GYM	T5 UNIT SENSOR	24	\$2,028.00	\$84.50	\$2,112.00	(\$84.00)
MISC AREAS	IVORY WALL SENSOR	24	\$1,903.20	\$79.30	\$968.00	\$935.20
ESTIMATED LIFT RENTAL COST			\$431.08		\$0.00	\$431.08
ESTIMATED FLUORESCENT BALLAST RECYCLING COST			\$3,442.50		\$3,442.50	\$0.00
ESTIMATED FLUORESCENT LAMP RECYCLING COST			\$1,206.37		\$0.00	\$1,206.37
ESTIMATED H.I.D. BALLAST RECYCLING COST			\$156.00		\$0.00	\$156.00
ESTIMATED H.I.D. LAMP RECYCLING COST			\$160.00		\$0.00	\$160.00
ESTIMATED PERMIT FEE			\$225.00		\$0.00	\$225.00
TOTALS, INCLUDING SENSORS		1429	\$90,167.74	N/A	\$55,122.50	\$35,045.24

Incentive as percent of total cost: 61%

Please refer to facility audit for a location by location proposal.

INCENTIVES ARE ESTIMATED AND SUBJECT TO NATIONAL GRID APPROVAL BEFORE INSTALLATION CAN BEGIN
CUSTOMER'S OUT-OF-POCKET EXPENSE WILL BE BILLED AT 0% INTEREST UP TO 24 MONTHS ON ELECTRIC BILL
PROPOSAL ASSUMES FLUORESCENT BALLAST DISPOSAL BY NATIONAL GRID UNDER MUNICIPAL FINANCING PROGRAM
DISPOSAL OF ALL LAMPS AND METAL HALIDE BALLASTS REMOVED ARE INCLUDED
PROPOSAL ASSUMES DISPOSAL OF OTHER PROJECT DEBRIS IN OWNER'S DUMPSTER OR A DUMPSTER CAN BE PROVIDED AT COST
PERMIT FEE IS ESTIMATED AND WILL BE BILLED AT FACE VALUE
ADDITIONAL ITEMS WILL BE INVOICED AT THE APPROVED UNIT COSTS AT THE END OF THE PROJECT
CUSTOMER IS RESPONSIBLE TO PROVIDE ACCESS TO ALL AREAS FOR INSTALLATION
NO EMERGENCY BACKUP BALLASTS INCLUDED IN PROPOSAL.

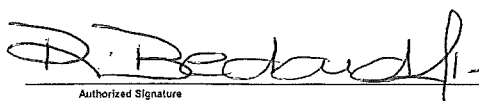
Proposal firm through 11/26/2009

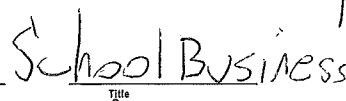
30% retainer is due upon execution of contract

\$27,050.32

Please authorize work for: **ELMWOOD ELEMENTARY SCHOOL**

by signing below


Authorized Signature


Title
Manager

Date

Richard G. Bedard, Jr.

10/21/09

SIGN HERE

Energy Initiative

nationalgrid

Signatures

Customer Report: TOWN OF MILLBURY

Application No:

Report Date: 08-28-2009

Customer's Acknowledgement

I certify that all statements made in this Customer Report, are correct to the best of my knowledge and that I have reviewed the Customer Report and the measures proposed and acknowledge they are appropriate for the type and purpose of the facility in which they will be installed. I also certify that I have read the Terms & Conditions on the back of the Customer Report and agree to them, including those provisions regarding warranties, and I further understand and acknowledge that the offer to pay incentives is also subject to those Terms & Conditions.

Customer Signature: Susan T. Hitchcock

Date: 10/31/09

Name: (print) Susan T. Hitchcock

Phone: 508-865-9501

Vendor/Contractor's Acknowledgement

I represent to the Company that I have reviewed the Customer Report, attachments, and the measures proposed. They are, in my professional opinion, appropriate for the type and purpose of the facility in which they will be installed. The information contained in this Customer Report is true and accurate to the best of my knowledge.

Vendor Signature: _____

Date: _____

Name: (print) _____

PATRICK MCCARTHY

Company Name: _____

PRISM CONSULTING INC.

Certification of Installation

I certify that I have seen the conservation measure that have been installed, and I am satisfied with their installation.

Customer Signature: _____

Date: _____

Name: (print) _____

Customer/Engineer/Vendor Certification

TO BE COMPLETED BY PERSON MOST RESPONSIBLE FOR DESIGN AND SAVINGS CALCULATION.

I certify to the Company that I have reviewed the measures and calculations proposed in this Customer Report. They are, in my professional opinion, appropriate for the type and purpose of the facility in which they will be installed. The information contained in this Customer Report is true, accurate, and complete to the best of my knowledge.

Signature: _____

Name: (print) _____

PATRICK MCCARTHY

Company Name: _____

PRISM CONSULTING INC.

Street Address: _____

440B EAST SQUANTUM ST.

City/State/Zip: _____

QUINCY, MA 02171

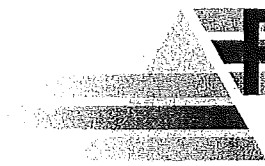
Registration No: _____

Phone: _____

617-328-9896 X16

Date: _____

Professional Engineer Stamp



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PROPOSAL FOR

ENERGY SAVING LIGHTING MEASURES

NATIONAL GRID

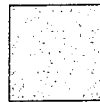
MUNICIPAL FINANCING PROGRAM

Submitted February 24th, 2009 to:

**SHAW ELEMENTARY
LAMP & BALLAST RETROFIT PROPOSAL**

**MILLBURY
PUBLIC SCHOOLS**

12 Martin Street | Millbury, MA 01527
District Office: 508.865.9501
www.millbury.k12.ma.us



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www.prismconsultinginc.com

February 24, 2009

Mr. Richard Bedard
Shaw Elementary School
12 Martin St.
Millbury, MA 01527

RE: Lighting Analysis and Energy Cost Savings Proposal

Dear Frederick,

Thank you for your interest in energy conservation. As requested our auditor and Vice-President of Field Operations, Paul Hurley, prepared the enclosed lighting savings analyses and proposals. The proposals are based on audits conducted on December 19, 2008. The proposals consist primarily of lamp and ballast retrofits. This recommendation offers the most cost-effective option resulting in the most savings for the least cost. The results of our analysis show...

- ✓ You can **save approximately \$18,410.46 per year** on your electric bill by installing new, state-of-the-art lighting equipment. You will also experience a single avoided maintenance cost of **\$4,249.07**.
- ✓ National Grid will pay **63% of the cost** (parts and labor) of the installed energy efficient lighting (rebates are prescriptive and subject to National Grid approval).
- ✓ While this lighting upgrade is valued at \$81,696.95, your contribution is **\$30,010.95**.
- ✓ The rapid payback of your lighting investment **is 1.3 years**.

Please refer to the audit/savings analysis for a detailed breakdown of the proposal or call Paul Hurley at (508) 987-1262 with specific questions. Rebates are estimated and subject to utility approval. Based on our experience, we are confident that our proposal will meet the eligibility criteria pending the availability of funds within each program. If you are interested in proceeding, we will contact the utility for each project of interest to submit a rebate application on your behalf.

In reviewing these results please consider the following benefits of the rebate application programs...

- ✓ ***Realize significant cost savings on your electric bill each year***
- ✓ ***Receive new, state-of-the art lighting components (a capital improvement) at a significant discount***

- ✓ *Enhance the facility environment, improving visibility, safety and aesthetics while saving money at the same time.*
- ✓ *Installation provided by Prism Consulting, Inc.'s licensed and qualified subcontractors. The project will be professionally designed and managed by Prism's own project management team. Prism's team has been selected by National Grid and other utilities as exclusive Vendors for the Small and Large Business Energy Efficiency Programs due to our comprehensive capabilities in the areas of energy efficient lighting and project management.*
- ✓ *Installation scheduled at your convenience with little or no disruption to the facility*

The full details of our Lighting Analysis are enclosed. We look forward to discussing our Energy Cost Savings Proposal with you - please call us at **617 328-9896**. We'd be pleased to further discuss the specific cost savings and energy benefits for your facility. *We hope you will take advantage of these valuable energy and money-saving measures.*

As soon as the signed agreement is received, your materials will be ordered and the installation at each facility will be scheduled at your convenience. The lead-time on the materials is approximately three weeks. Upon delivery of the materials, our subcontractor will call you directly to schedule a date and time.

We at Prism Consulting, Inc. sincerely appreciate your time and interest in conserving energy.

Sincerely,

Wendy Simmons
President

*Executive Overview of Lighting Upgrade Proposal
Presented to:*

SHAW ELEMENTARY SCHOOL

Total Project Cost
\$81,696.95

Utility Incentive
\$51,686.00

Total out of Pocket
\$30,010.95

Avoided Maintenance Savings
\$4,249.07

Effective Cost
\$25,761.88

Annual Energy Savings
\$20,323.23

Estimated Monthly Savings
\$1,693.60

Estimated Monthly Payments
\$1,250.46

Effective Payback
1.3 years

Cashflow gains after 5 years
\$75,854.29

Annual Return on Investment
79%

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www.prismconsultinginc.com

AUDIT AND SAVINGS ANALYSIS NATIONAL GRID MUNICIPAL FINANCING PROGRAM

CUSTOMER NAME: SHAW ELEMENTARY SCHOOL
ADDRESS: 58 ELMWOOD ST.
MILLBURY, MA 01527
CONTACT: RICHARD BEDARD
PHONE: 508-865-9501
FAX: 508-865-0888
ACCOUNT #: 1597023007

Auditor: PAUL HURLEY
Prism Consulting, Inc.
Audit Date: 12/19/2008

ROOM	HT	DESCRIPTION LAMPS/BALLAST	PROPOSED			KW	HRS/YR	WHYR	DESCRIPTION LAMPS/BALLAST	FIXTURE QTY	WATTS/ FIXTURE	EXISTING			HRS/YR	WHYR	TYPE	QUANTITY
			FIXTURE QTY	WATTS/ FIXTURE	KW							FIXTURE QTY	DESCRIPTION LAMPS/BALLAST	WATTS/ FIXTURE				
OLD EXIT SIGNS	9'	3W LED MINI-CAD BATTERY B/U	21	3	0.063	8,760	552		9W CF	21	9				8,760	1,556		
OLD EXIT SIGNS	9'	3W LED EXIT KIT	12	3	0.036	8,760	315		9W CF	12	9				8,760	948		
FRONT ENTRANCE	9'	21.4" 25W SUPER T8/EL LBF L&B	2	37	0.074	8,760	648		21.4" T8/EL	2	60				8,760	1,051		
BACK ENTRANCE	9'	21.4" 25W SUPER T8/EL LBF L&B	4	37	0.148	8,760	1,296		21.4" T8/EL	4	60				8,760	2,102		
HALLWAYS	9'	21.4" 25W SUPER T8/EL LBF L&B	2	37	0.074	8,760	648		21.4" T8/EL	2	60				8,760	1,051		
OFFICE HALLWAYS	9'	41.4" 25W SUPER T8/EL LBF L&B	9	74	0.666	8,760	5,834		41.4" T8/EL	9	112				8,760	8,830		
CLASSROOM HALLWAYS	9'	21.4" 25W SUPER T8/EL LBF L&B	55	37	2.035	8,760	17,827		21.4" T8/EL	55	60				8,760	28,908		
DISPLAY CABINET BY ROOM 8	9'	21.4" 25W SUPER T8/EL LBF L&B	1	37	0.037	8,760	324		21.4" EE/EMAG	1	70				8,760	613		
MAINTENANCE ROOM	9'	21.4" 25W SUPER T8/EL LBF L&B	13	37	0.481	2,600	1,251		21.4" T8/EL	13	60				2,600	2,028		
MAINTENANCE GARAGE	9'	21.4" 25W SUPER T8/EL LBF L&B	6	37	0.222	2,600	577		21.4" T8/EL	6	60				2,600	936		
MAINTENANCE STORAGE	9'	21.4" 25W SUPER T8/EL LBF L&B	10	37	0.370	2,600	962		21.4" T8/EL	10	60				2,600	1,560		
MAINTENANCE HALLWAY	9'	21.4" 25W SUPER T8/EL LBF L&B	3	37	0.111	8,760	972		21.4" T8/EL	3	60				8,760	1,577		
BOILER ROOM	11'	21.4" 25W SUPER T8/EL LBF L&B	5	37	0.185	1,000	185		21.4" T8/EL	5	60				1,000	300		
FOOD SERVICE OFFICE	9'	21.4" 25W SUPER T8/EL LBF L&B	6	37	0.222	2,600	577		21.4" T8/EL	6	60				2,600	936		
KITCHEN	9'	21.4" 25W SUPER T8/EL LBF L&B	26	37	0.962	2,000	1,924		21.4" T8/EL	26	60				2,000	3,120		
PANTRY	9'	21.4" 25W SUPER T8/EL LBF L&B	4	37	0.148	2,000	286		21.4" T8/EL	4	60				2,000	480		
KITCHEN STOCK ROOM	9'	21.4" 25W SUPER T8/EL LBF L&B	2	37	0.074	2,000	148		21.4" T8/EL	2	60				2,000	240		
KITCHEN BATH ROOM	9'	21.4" 25W SUPER T8/EL LBF L&B	1	37	0.037	1,000	37		21.4" T8/EL	1	60				1,000	60		
KITCHEN OFFICE	9'	21.4" 25W SUPER T8/EL LBF L&B	2	37	0.074	1,200	89		21.4" T8/EL	2	60				1,200	240	WALL-W	1
CAFÉ	16'	21.4" 25W SUPER T8/EL LBF L&B	90	37	3.330	2,600	3,658		21.4" T8/EL	90	60				2,600	14,040	WALL-W	1
GUIDANCE DEPT	9'	21.4" 25W SUPER T8/EL LBF L&B	2	37	0.074	1,200	89		21.4" T8/EL	2	60				1,200	240	WALL-W	1
GUIDANCE DEPT	9'	21.4" 25W SUPER T8/EL LBF L&B	4	37	0.148	1,200	178		21.4" T8/EL	4	60				1,200	480	WALL-W	1
GUIDANCE OFFICE	9'	21.4" 25W SUPER T8/EL LBF L&B	2	37	0.074	1,200	89		21.4" T8/EL	2	60				1,200	240	WALL-W	1
NURSE OFFICE	9'	21.4" 25W SUPER T8/EL LBF L&B	2	37	0.074	1,200	89		21.4" T8/EL	2	60				1,200	240	WALL-W	1
CLINIC	9'	21.4" 25W SUPER T8/EL LBF L&B	7	37	0.259	2,000	518		21.4" T8/EL	7	60				2,000	840		
CLINIC	9'	21.4" 25W SUPER T8/EL LBF L&B	4	37	0.148	1,200	178		21.4" T8/EL	4	60				1,200	480		
CLINIC	9'	15 W CF MINI SPIRAL	3	13	0.039	500	20		60W INC	3	60				500	90		
MAIN OFFICE	9'	21.4" 25W SUPER T8/EL LBF L&B	8	37	0.286	2,600	770		21.4" T8/EL	8	60				2,600	1,248	WALL-W	1
MAIN OFFICE COPY ROOM	9'	21.4" 25W SUPER T8/EL LBF L&B	4	37	0.148	1,200	178		21.4" T8/EL	4	60				1,200	480	WALL-W	1
MAIN OFFICE KITCHENETTE	9'	21.4" 25W SUPER T8/EL LBF L&B	4	37	0.148	1,200	178		21.4" T8/EL	4	60				1,200	480	WALL-W	1
MAIN OFFICE SAFE	9'	21.4" 25W SUPER T8/EL LBF L&B	2	37	0.074	1,200	89		21.4" T8/EL	2	60				1,200	144	WALL-W	1
PRINCIPLES OFFICE	9'	21.4" 25W SUPER T8/EL LBF L&B	4	37	0.148	1,200	178		21.4" T8/EL	4	60				1,200	480	WALL-W	1
VICE PRINCIPLES OFFICE	9'	21.4" 25W SUPER T8/EL LBF L&B	4	37	0.148	1,200	178		21.4" T8/EL	4	60				1,200	480	WALL-W	1
JANITORS CLOSET	9'	22 W CF	2	22	0.044	500	22		90W INC	2	90				1,000	180	WALL-W	1
MAIN HALLWAY SCONES	9'	22 W CF	7	22	0.154	500	77		90W INC	7	90				1,000	630	WALL-W	1
MAIN HALLWAY MEN'S ROOM	9'	21.4" 25W SUPER T8/EL LBF L&B	1	37	0.037	2,600	96		21.4" T8/EL	1	60				2,600	156		
MAIN HALLWAY MEN'S ROOM	9'	21.4" 25W SUPER T8/EL LBF L&B	2	37	0.074	2,600	192		21.4" T8/EL	2	112				2,600	582		
MAIN HALLWAY LADIES ROOM	9'	21.4" 25W SUPER T8/EL LBF L&B	1	37	0.037	2,600	96		21.4" T8/EL	1	60				2,600	156		
MAIN HALLWAY LADIES ROOM	9'	21.4" 25W SUPER T8/EL LBF L&B	2	37	0.074	2,600	192		21.4" T8/EL	2	112				2,600	582		
GYM	28'	41.4 FT T5 HO FIXTURE W/ CLEAR LENS & W/IR GUARD	24	232	5.588	1,560	8,666		21.8" HO EE/EMAG	32	227				2,600	18,886	UNIT	24

GYM OFFICE	9'	21.4' 25W SUPER T8EL LBF L&B	3	37	0.111	1,000	111	21.4' T8EL	3	60	0.180	2,600	468	WALL-W	1
GYM STORAGE	9'	21.4' 25W SUPER T8EL LBF L&B	2	37	0.074	500	37	21.4' T8EL	2	60	0.120	1,000	120	WALL-W	1
BOYS LOCKER ROOM	9'	21.4' 25W SUPER T8EL LBF L&B	24	37	0.888	1,000	888	21.4' T8EL	24	60	1.440	1,000	1,440		
GIRLS LOCKER ROOM	9'	21.4' 25W SUPER T8EL LBF L&B	25	37	0.925	1,000	925	21.4' T8EL	25	60	1.500	1,000	1,500		
EXTERIOR CANOPIES	9'	15 W OF MINI SPIRAL	8	13	0.104	4,300	447	60W INC	8	60	0.480	4,300	2,064		
GIRLS ROOM	9'	21.4' 25W SUPER T8EL LBF L&B	1	37	0.111	2,600	289	21.4' T8EL	3	60	0.180	2,600	468		
BOYS ROOM	9'	21.4' 25W SUPER T8EL LBF L&B	1	37	0.037	2,600	96	21.4' T8EL	3	60	0.060	2,600	156		
27B	9'	21.4' 25W SUPER T8EL LBF L&B	14	37	0.518	2,600	1,347	21.4' T8EL	14	60	0.840	2,600	2,184		
27B BATH	9'	21.4' 25W SUPER T8EL LBF L&B	2	37	0.074	500	37	21.4' T8EL	2	60	0.120	1,000	120	WALL-W	1
27A	9'	21.4' 25W SUPER T8EL LBF L&B	20	37	0.740	2,600	1,924	21.4' T8EL	20	60	1.200	2,600	3,120		
27A	9'	21.4' 25W SUPER T8EL LBF L&B	3	37	0.111	2,600	289	21.4' T8EL	3	60	0.180	2,600	468		
25	9'	21.4' 25W SUPER T8EL LBF L&B	24	37	0.888	2,600	2,309	21.4' T8EL	24	60	1.440	2,600	3,744		
24	9'	21.4' 25W SUPER T8EL LBF L&B	16	37	0.592	2,600	1,539	21.4' T8EL	16	60	0.960	2,600	2,496		
23	9'	21.4' 25W SUPER T8EL LBF L&B	4	37	0.148	2,600	385	21.4' T8EL	4	60	0.240	2,600	624		
23	9'	21.4' 25W SUPER T8EL LBF L&B	16	37	0.592	2,600	1,539	21.4' T8EL	16	60	0.960	2,600	2,496		
21	9'	21.4' 25W SUPER T8EL LBF L&B	4	37	0.148	2,600	385	21.4' T8EL	4	60	0.240	2,600	624		
21	9'	21.4' 25W SUPER T8EL LBF L&B	16	37	0.592	2,600	1,539	21.4' T8EL	16	60	0.960	2,600	2,496		
20	9'	21.4' 25W SUPER T8EL LBF L&B	4	37	0.148	2,600	385	21.4' T8EL	4	60	0.240	2,600	624		
20	9'	21.4' 25W SUPER T8EL LBF L&B	16	37	0.592	2,600	1,539	21.4' T8EL	16	60	0.960	2,600	2,496		
19	9'	21.4' 25W SUPER T8EL LBF L&B	4	37	0.148	2,600	385	21.4' T8EL	4	60	0.240	2,600	624		
19	9'	21.4' 25W SUPER T8EL LBF L&B	16	37	0.592	2,600	1,539	21.4' T8EL	16	60	0.960	2,600	2,496		
18	9'	21.4' 25W SUPER T8EL LBF L&B	4	37	0.148	2,600	385	21.4' T8EL	4	60	0.240	2,600	624		
18	9'	21.4' 25W SUPER T8EL LBF L&B	16	37	0.592	2,600	1,539	21.4' T8EL	16	60	0.960	2,600	2,496		
17	9'	21.4' 25W SUPER T8EL LBF L&B	4	37	0.148	2,600	385	21.4' T8EL	4	60	0.240	2,600	624		
17	9'	21.4' 25W SUPER T8EL LBF L&B	16	37	0.592	2,600	1,539	21.4' T8EL	16	60	0.960	2,600	2,496		
14	9'	21.4' 25W SUPER T8EL LBF L&B	4	37	0.148	2,600	385	21.4' T8EL	4	60	0.240	2,600	624		
14	9'	21.4' 25W SUPER T8EL LBF L&B	16	37	0.592	2,600	1,539	21.4' T8EL	16	60	0.960	2,600	2,496		
13	9'	21.4' 25W SUPER T8EL LBF L&B	4	37	0.148	2,600	385	21.4' T8EL	4	60	0.240	2,600	624		
13	9'	21.4' 25W SUPER T8EL LBF L&B	16	37	0.592	2,600	1,539	21.4' T8EL	16	60	0.960	2,600	2,496		
12	9'	21.4' 25W SUPER T8EL LBF L&B	4	37	0.148	2,600	385	21.4' T8EL	4	60	0.240	2,600	624		
12	9'	21.4' 25W SUPER T8EL LBF L&B	16	37	0.592	2,600	1,539	21.4' T8EL	16	60	0.960	2,600	2,496		
11	9'	21.4' 25W SUPER T8EL LBF L&B	4	37	0.148	2,600	385	21.4' T8EL	4	60	0.240	2,600	624		
11	9'	21.4' 25W SUPER T8EL LBF L&B	16	37	0.592	2,600	1,539	21.4' T8EL	16	60	0.960	2,600	2,496		
10	9'	21.4' 25W SUPER T8EL LBF L&B	4	37	0.148	2,600	385	21.4' T8EL	4	60	0.240	2,600	624		
10	9'	21.4' 25W SUPER T8EL LBF L&B	16	37	0.592	2,600	1,539	21.4' T8EL	16	60	0.960	2,600	2,496		
9	9'	21.4' 25W SUPER T8EL LBF L&B	4	37	0.148	2,600	385	21.4' T8EL	4	60	0.240	2,600	624		
9	9'	21.4' 25W SUPER T8EL LBF L&B	16	37	0.592	2,600	1,539	21.4' T8EL	16	60	0.960	2,600	2,496		
7	9'	21.4' 25W SUPER T8EL LBF L&B	4	37	0.148	2,600	385	21.4' T8EL	4	60	0.240	2,600	624		
7	9'	21.4' 25W SUPER T8EL LBF L&B	16	37	0.592	2,600	1,539	21.4' T8EL	16	60	0.960	2,600	2,496		
6	9'	21.4' 25W SUPER T8EL LBF L&B	4	37	0.148	2,600	385	21.4' T8EL	4	60	0.240	2,600	624		
6	9'	21.4' 25W SUPER T8EL LBF L&B	16	37	0.592	2,600	1,539	21.4' T8EL	16	60	0.960	2,600	2,496		
5	9'	21.4' 25W SUPER T8EL LBF L&B	18	37	0.666	2,600	1,732	21.4' T8EL	18	60	1.080	2,600	2,808		
5	9'	21.4' 25W SUPER T8EL LBF L&B	7	37	0.259	2,600	673	21.4' T8EL	7	60	0.420	2,600	1,092		
3	9'	21.4' 25W SUPER T8EL LBF L&B	28	37	0.962	2,600	2,501	21.4' T8EL	28	60	1.560	2,600	4,056		
3	9'	21.4' 25W SUPER T8EL LBF L&B	4	37	0.148	2,600	385	21.4' T8EL	4	60	0.240	2,600	624		
STORAGE	9'	21.4' 25W SUPER T8EL LBF L&B	6	37	0.222	2,600	577	21.4' T8EL	6	60	0.360	2,600	936		
1	9'	21.4' 25W SUPER T8EL LBF L&B	24	37	0.888	2,600	2,309	21.4' T8EL	24	60	1.440	2,600	3,744		
1	9'	21.4' 25W SUPER T8EL LBF L&B	4	37	0.148	2,600	385	21.4' T8EL	4	60	0.240	2,600	624		
DISPLAY CABINET BY OFFICE	9'	21.4' 25W SUPER T8EL LBF L&B	2	37	0.074	8,760	648	21.4' T8EL	2	60	0.120	8,760	1,051		
28	9'	21.4' 25W SUPER T8EL LBF L&B	32	37	1.184	2,600	3,078	21.4' T8EL	32	60	1.920	2,600	4,992		
28	9'	21.4' 25W SUPER T8EL LBF L&B	4	37	0.148	2,600	385	21.4' T8EL	4	60	0.240	2,600	624		
26	9'	21.4' 25W SUPER T8EL LBF L&B	24	37	0.888	1,000	888	21.4' T8EL	24	60	1.440	2,600	3,744	CEILING	1
LIBRARY	9'	21.4' 25W SUPER T8EL LBF L&B	76	37	2.812	2,600	7,311	21.4' T8EL	76	60	4.560	2,600	11,856		
LIBRARY OFFICE	9'	21.4' 25W SUPER T8EL LBF L&B	6	37	0.222	2,600	577	21.4' T8EL	6	60	0.360	2,600	936		
LIBRARY BOOK STORAGE ROOM	9'	21.4' 25W SUPER T8EL LBF L&B	1	37	0.037	2,600	96	21.4' T8EL	1	60	0.060	2,600	156		
OLD AV ROOM	9'	21.4' 25W SUPER T8EL LBF L&B	4	37	0.148	1,000	148	21.4' T8EL	4	60	0.240	2,600	624	WALL-W	1
OLD AV ROOM	9'	21.4' 25W SUPER T8EL LBF L&B	12	37	0.444	2,600	1,154	21.4' T8EL	12	60	0.720	2,600	1,872		
GUIDANCE BY LIBRARY	9'	21.4' 25W SUPER T8EL LBF L&B	12	37	0.074	2,600	192	21.4' T8EL	2	60	0.120	2,600	312		
ROOM OFF LIBRARY	9'	21.4' 25W SUPER T8EL LBF L&B	13	37	0.481	2,600	1,251	21.4' T8EL	13	60	0.780	2,600	2,028		
ROOM OFF LIBRARY	9'	21.4' 25W SUPER T8EL LBF L&B	8	37	0.296	2,600	770	21.4' T8EL	8	60	0.480	2,600	1,248		
ROOM OFF LIBRARY	9'	21.4' 25W SUPER T8EL LBF L&B	3	37	0.111	2,600	289	21.4' T8EL	3	60	0.180	2,600	468		

CONFERENCE ROOM C	9'	2L4' 25W SUPER T8/EL LBF L&B	4	37	0.148	1,000	148	2L4' T8/EL	4	60	0.240	2,500	624	WALL-JW	1
CONFERENCE ROOM B	9'	2L4' 25W SUPER T8/EL LBF L&B	4	37	0.148	1,000	148	2L4' T8/EL	4	60	0.240	2,500	624	WALL-JW	1
DISPLAY CABINET IN LIBRARY	9'	2L4' 25W SUPER T8/EL LBF L&B	2	37	0.074	8760	648	2L4' T8/EL	2	70	0.140	8,760	1,226		
LIBRARY ENTRANCES	9'	15 W CF BR 30	8	15	0.120	2,600	312	2L4' T8/EL	8	75	0.600	2,600	1,560		
22	9'	2L4' 25W SUPER T8/EL LBF L&B	24	37	0.888	2,600	2,309	2L4' T8/EL	24	60	1.440	2,500	3,744		
PROF CENTER	9'	2L4' 25W SUPER T8/EL LBF L&B	8	37	0.296	2,600	770	2L4' T8/EL	8	60	0.480	2,600	1,248		
STORAGE BY 22	9'	2L4' 25W SUPER T8/EL LBF L&B	3	37	0.111	1,000	111	2L4' T8/EL	3	60	0.180	1,000	180		
BOYS ROOM BY 22	9'	2L4' 25W SUPER T8/EL LBF L&B	2	37	0.074	2,600	192	2L4' T8/EL	2	60	0.120	2,500	312		
BOYS ROOM BY 22	9'	2L4' 25W SUPER T8/EL LBF L&B	2	37	0.074	2,600	192	2L4' T8/EL	2	60	0.120	2,500	312		
GIRLS ROOM BY 22	9'	2L4' 25W SUPER T8/EL LBF L&B	2	37	0.074	2,600	192	2L4' T8/EL	2	60	0.120	2,500	312		
GIRLS ROOM BY 22	9'	2L4' 25W SUPER T8/EL LBF L&B	2	37	0.074	2,600	192	2L4' T8/EL	2	60	0.120	2,500	312		
16	9'	2L4' 25W SUPER T8/EL LBF L&B	1	37	0.037	2,600	96	2L4' T8/EL	1	60	0.060	2,500	156		
16	9'	2L4' 25W SUPER T8/EL LBF L&B	16	37	0.592	2,600	1,539	2L4' T8/EL	16	60	0.960	2,500	2,496		
15	9'	2L4' 25W SUPER T8/EL LBF L&B	4	37	0.148	2,600	385	2L4' T8/EL	4	60	0.240	2,500	624		
15	9'	2L4' 25W SUPER T8/EL LBF L&B	16	37	0.592	2,600	1,539	2L4' T8/EL	16	60	0.960	2,500	2,496		
GIRLS ROOM BY FACULTY BATH	9'	2L4' 25W SUPER T8/EL LBF L&B	4	37	0.148	2,600	385	2L4' T8/EL	4	60	0.240	2,500	624		
GIRLS ROOM BY FACULTY BATH	9'	2L4' 25W SUPER T8/EL LBF L&B	32	37	1.184	2,600	3,078	2L4' T8/EL	32	60	1.920	2,500	4,992		
FACULTY	9'	2L4' 25W SUPER T8/EL LBF L&B	4	37	0.148	2,600	385	2L4' T8/EL	4	60	0.240	2,500	624		
FACULTY	9'	2L4' 25W SUPER T8/EL LBF L&B	4	37	0.148	2,600	385	2L4' T8/EL	4	60	0.240	2,500	624		
STAFF BATHS	9'	2L4' 25W SUPER T8/EL LBF L&B	4	37	0.148	2,600	385	2L4' T8/EL	4	60	0.240	2,500	624		
STORAGE ROOMS BY STAFF BATH	9'	15 W CF MINI SPIRAL	2	13	0.026	500	13	60W INC	2	60	0.120	500	60		
4	9'	2L4' 25W SUPER T8/EL LBF L&B	7	37	0.259	500	130	2L4' T8/EL	7	60	0.420	1,000	420	WALL-JW	1
2	9'	2L4' 25W SUPER T8/EL LBF L&B	24	37	0.888	2,600	2,309	2L4' T8/EL	24	60	1.440	2,500	3,744		
BOYS ROOM BY 4	9'	2L4' 25W SUPER T8/EL LBF L&B	24	37	0.888	2,600	2,309	2L4' T8/EL	24	60	1.440	2,500	3,744		
BOYS ROOM BY 4	9'	2L4' 25W SUPER T8/EL LBF L&B	2	37	0.074	2,600	192	2L4' T8/EL	2	60	0.120	2,500	312		
BOYS ROOM BY 4	9'	2L4' 25W SUPER T8/EL LBF L&B	2	37	0.074	2,600	192	2L4' T8/EL	2	60	0.120	2,500	312		
GIRLS ROOM BY 4	9'	2L4' 25W SUPER T8/EL LBF L&B	2	37	0.074	2,600	192	2L4' T8/EL	2	60	0.120	2,500	312		
GIRLS ROOM BY 4	9'	2L4' 25W SUPER T8/EL LBF L&B	1	37	0.037	2,600	96	2L4' T8/EL	1	60	0.060	2,500	156		
			1291		\$1,035		138195.4		1299		82.697		239019.4		42

TOTAL SAVINGS

Energy	\$
KWH	\$18,410.46
HVAC	\$1,912.77
TOTAL	\$20,323.23

@ \$0.1826 / kWh*

KW

31.662

Total Project Cost	\$81,696.95
National Grid Incentive	\$51,696.00
Out-of-Pocket Cost	\$30,010.95
Non-Electrical Savings	\$4,249.07
Effective Cost	\$25,761.88

Effective Payback: 1.3 yrs.

* weighted average for demand and kWh charges used by National Grid

T8 / T5 lamps have a 20,000 hour rated life.

CF lamp have a 6,000 - 8,000 hour rated life.

Ballasts have an average useful life of 10 years.

*Overview of Emissions Reductions
Presented to:*

SHAW ELEMENTARY SCHOOL

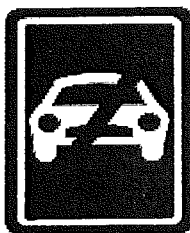
*Existing kWh/yr
239,019*

*Proposed kWh/yr
138,195*

*Energy Saved
100,824*

*Prevented CO2 Emissions
156,277 lbs/yr*

*Equivalent to removing CO2 emissions from
14 Cars!*





"HELPING YOUR BUSINESS GO GREEN"

Commercial Energy Efficiency ▲ Solar & Wind

440B East Squantum Street ▲ Quincy, MA 02171
T 617-328-9896 ▲ F 617-328-0496
www.prismconsultinginc.com

ENERGY EFFICIENT LIGHTING SYSTEM UPGRADE PROPOSAL
NATIONAL GRID MUNICIPAL FINANCING PROGRAM

CUSTOMER NAME: SHAW ELEMENTARY SCHOOL
ADDRESS: 58 ELMWOOD ST.
MILLBURY, MA. 01527
CONTACT: RICHARD BEDARD
PHONE: 508-865-9501
ACCOUNT #: 1557023007

Auditor: PAUL HURLEY
Prism Consulting, Inc.
Date: 2/24/2009

PROJECT SUMMARY

AREA	REPLACEMENT DESCRIPTION	QTY	TOTAL COST	UNIT COST	NATIONAL GRID INCENTIVE	OUT-OF-POCKET EXPENSE
LIBRARY ENTRANCES	15 W CF BR 30	8	\$146.85	\$18.36	\$0.00	\$146.85
CLINIC, EXTERIOR CANOPIES, & STAFF BATHS	15 W CF MINI SPIRAL	13	\$144.66	\$11.13	\$0.00	\$144.66
JANITORS CLOSET & MAIN HALLWAY SCONCES	22 W CF	9	\$100.15	\$11.13	\$0.00	\$100.15
THROUGHOUT	2L4' 25W SUPER T8/EL L&B	1195	\$59,669.94	\$49.93	\$39,435.00	\$20,234.94
OLD EXIT SIGNS	3W LED EXIT KIT	12	\$602.16	\$50.18	\$0.00	\$602.16
OLD EXIT SIGNS	3W LED W/NI-CAD BATTERY B/U	21	\$1,286.75	\$61.75	\$755.00	\$540.75
GYM	4L 4FT T5 HO FIXTURE W/CLEAR LENS & WR GUARD	24	\$10,491.62	\$437.15	\$5,040.00	\$5,451.62
OFFICE HALLWAYS	4L4' 25W SUPER T8/EL L&B	9	\$550.60	\$61.18	\$297.00	\$253.60
GYM	T5 UNIT SENSOR	24	\$2,028.00	\$84.50	\$2,112.00	(\$84.00)
MSC AREAS	WHITE WALL SENSOR	17	\$1,301.69	\$76.57	\$748.00	\$553.69
26	CEILING SENSOR	1	\$154.73	\$154.73	\$131.00	\$23.73
27	POWERPACK	1	\$82.91	\$82.91	\$0.00	\$82.91
ESTIMATED LIFT RENTAL COST			\$645.75		\$0.00	\$645.75
ESTIMATED FLUORESCENT BALLAST RECYCLING COST			\$3,167.00		\$3,167.00	\$0.00
ESTIMATED FLUORESCENT LAMP RECYCLING COST			\$1,032.70		\$0.00	\$1,032.70
ESTIMATED PERMIT FEE			\$281.43		\$0.00	\$281.43
TOTALS, INCLUDING SENSORS		1334	\$81,696.95	N/A	\$51,686.00	\$30,010.95

Incentive as percent of total cost: 63%

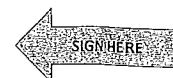
Please refer to facility audit for a location by location proposal.

INCENTIVES ARE ESTIMATED AND SUBJECT TO NATIONAL GRID APPROVAL BEFORE INSTALLATION CAN BEGIN
CUSTOMER OUT-OF-POCKET EXPENSE WILL BE BILLED AT 0% INTEREST UP TO 24 MONTHS ON THEIR ELECTRIC BILL
PROPOSAL ASSUMES FLUORESCENT BALLAST DISPOSAL BY NATIONAL GRID UNDER MUNICIPAL FINANCING PROGRAM
DISPOSAL OF ALL LAMPS AND METAL HALIDE BALLASTS REMOVED ARE INCLUDED
PROPOSAL ASSUMES DISPOSAL OF OTHER PROJECT DEBRIS IN OWNER'S DUMPSTER OR A DUMPSTER CAN BE PROVIDED AT COST
PERMIT FEE IS ESTIMATED AND WILL BE BILLED AT FACE VALUE
ADDITIONAL ITEMS WILL BE INVOICED AT THE APPROVED UNIT COSTS AT THE END OF THE PROJECT
NO EMERGENCY BACKUP BALLASTS INCLUDED IN PROPOSAL.

Proposal firm through 5/25/2009

Please authorize work for: SHAW ELEMENTARY SCHOOL

by signing below



Authorized Signature

Title

Date

VendingMISER®

"Save Energy, Save Money!"

Bayview's Miser family is a line of occupancy-based energy control products. VendingMiser® (U.S. Patent No. 6,243,626) represents a breakthrough in the power control of cold beverage vending machines. It reduces energy consumption by an average of 46%, while maintaining the temperature of the vended product. VendingMiser typically has a short average payback of between one and two years.*

Utilizing a **Passive Infrared (PIR) Sensor**, VendingMiser powers down a vending machine when the area surrounding it is vacant. For a series of up to 4 machines, VendingMiser can utilize its unique embedded Sensor Repeater, which allows it to be controlled from the PIR sensor of any other Miser in the bank. VendingMiser monitors the room's temperature, and automatically re-powers the vending machine at one to three hour intervals, independent of occupancy, to ensure that the vended product stays cold.

VendingMiser's electrical current sensor will never power down a vending machine while the compressor is running, avoiding high head-pressure starts. In addition, when the vending machine is powered up, the cooling cycle is allowed to run to completion before again powering down. VendingMiser's smart technology generates maintenance savings for the machine operator through reduced run time, estimated at \$40 - \$80 per year. Indicator lights on the unit will alert service personnel if the machine's cooling system is failing.

For outdoor locations and any other location where the VendingMiser may be exposed to water, a waterproof PIR sensor and controller housing are available. An Easy-Install VendingMiser is also available and allows for installation with no tools.

A cold beverage vending machine consumes on average 400 Watts, costing approximately \$300 per year to operate at 8¢ per kWh. Powering down such a vending machine when not in use provides savings of \$150 or more per year per machine. Additionally, other cooled product vending machines, such as refrigerated candy machines, can also be controlled by VendingMiser. Non-cooled product machines can be controlled by our companion product, SnackMiser™. VendingMiser is made in the USA.

VendingMisers Benefit the Environment

One VendingMiser reduces greenhouse gas emissions by 2200 lbs. of CO₂ and 3600 grams of NO_x each year.*

*Based on occupancy and the Energy Information Administration's national average of greenhouse gas emissions and electricity generation.



Technical Specifications

ELECTRICAL SPECIFICATIONS

Input Voltage:	115 Volts (230 Volts available)
Input Frequency:	50/60 Hz
Maximum Load:	12 Amps (Steady-State)
Power Consumption:	Less than 1 Watt (Standby)

ENVIRONMENTAL SPECIFICATIONS

Operating Temp:	-15°C to 75°C
Storage Temp:	-40°C to 85°C
Relative Humidity:	95% Maximum (Non-Condensing)

COMPATIBILITY

Vending Machines:	Any machine, except those containing perishable goods such as dairy products.
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INACTIVITY TIMEOUTS

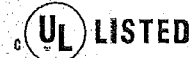
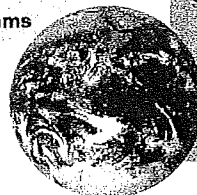
Occupancy Timeout:	15 minutes
Auto Repower:	One to three hours, dynamically adjusted, based on ambient temperature

DIMENSIONS

Size:	4.5"W x 1.75"H x 3.25"D
Weight:	2.2 lb. (including power cable)

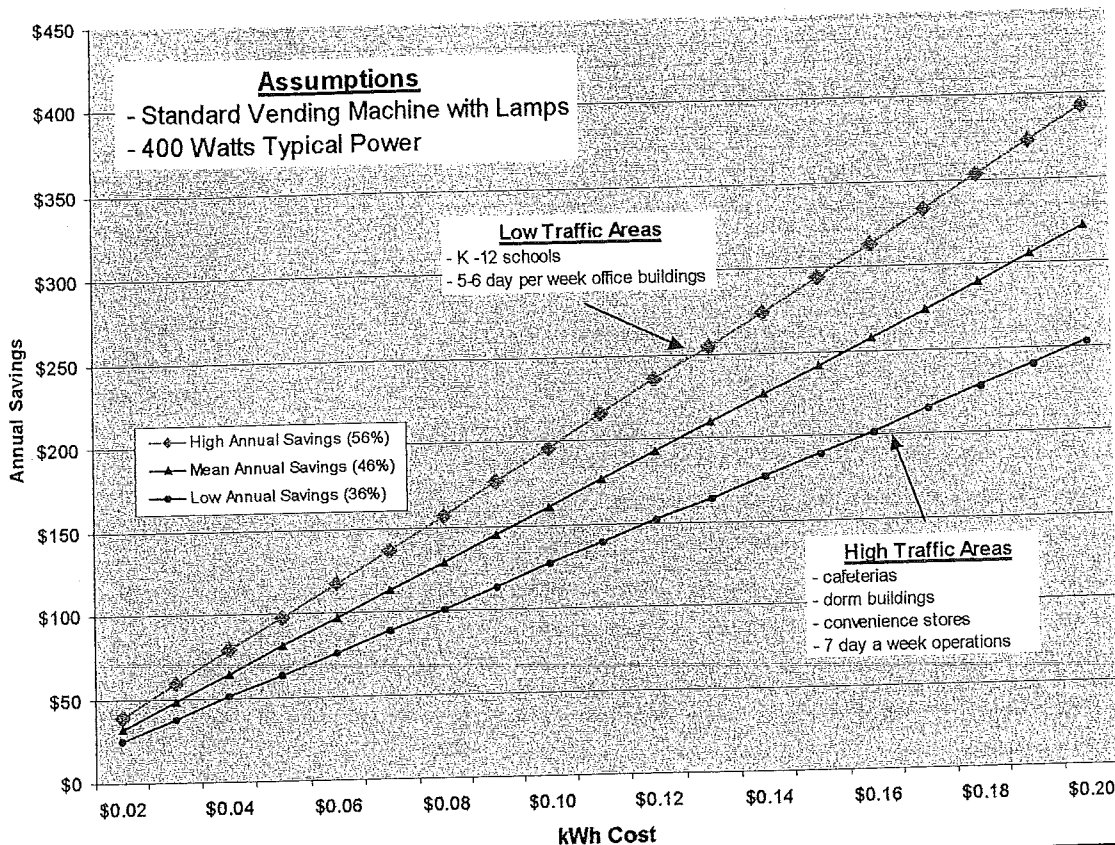
REGULATORY APPROVALS

Safety:	UL/C-UL Listed
	Information Technology Equipment (ITE) 9T79



* Based on electric rate and occupancy.

TYPICAL SAVINGS GENERATED WITH VendingMISER®



COMMON QUESTIONS ABOUT VendingMISER®

Will VendingMiser keep my drinks cold?

Absolutely - VendingMiser has been tested and approved for use by both major bottlers. Visit the web site at www.bayviewtech.com or contact us for more details.

Is the VendingMiser easy to install?

Yes! VendingMiser is a simple external plug-and-play product. The VendingMiser can be installed on the wall with simple hand tools or it can be attached to the vending machine without tools using the new **Easy-Install** system. The Easy-Install System allows quick installation in 5 minutes.

Is VendingMiser safe for all machines?

Yes! VendingMiser is compatible with all types of cold drink vending machines. In fact, by reducing run time of the machines, VendingMiser reduces maintenance costs.

Has VendingMiser been field tested?

Tens of thousands of VendingMisers are operational in the field. Average energy savings have been independently

documented to be 46%. Measurement and verification test results as well as testimonials are available on the website.

Are any locations not appropriate for VendingMiser?

Just one - VendingMiser's savings are generated as a result of location vacancy. Therefore, a machine in a location that is occupied 24-hours, 7 days a week will likely generate little savings.

ORDERING INFORMATION

VM150	VendingMiser with PIR Sensor
VM151	VendingMiser only
VM160	Weatherproof VendingMiser with PIR Sensor
VM161	Weatherproof VendingMiser only
VM170	Easy-Install VendingMiser with PIR Sensor
VM171	Easy-Install VendingMiser only

H9
2009

PRISM
ENERGY SERVICES

1775 Appleton Street, Suite 100, Boston, MA 02126

Phone: 617.452.0100 Fax: 617.452.0101
E-mail: info@prismenergy.com
www.prismenergy.com

*Executive Overview of Lighting Upgrade
Presented to:*

MILLBURY FIRE DEPARTMENT

<i>Total Project Cost</i>
\$3,854.51
<i>Utility Incentive</i>
\$2,965.20
<i>Total out of Pocket</i>
\$889.31



1000 Massachusetts Avenue, Suite 400, Boston, MA 02115
Tel: 617-224-0000 Fax: 617-224-0400
www.prismenergy.com

1000 Massachusetts Avenue, Suite 400, Boston, MA 02115
Tel: 617-224-0000 Fax: 617-224-0400
www.prismenergy.com

MILLBURY FIRE DEPARTMENT

126 ELM STREET
MILLBURY, MA 01527

Tax Deduction Eligibility Analysis

Installation Date: 10/23/09

Space Type: FIRE DEPARTMENT

Total Watts Allowed: 3,400

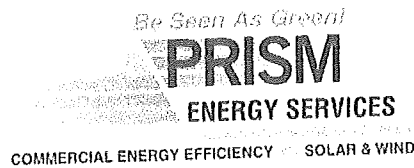
Total Watts Proposed: 2,457

Potential EPACT Tax Deduction (@ \$0.60/SF):

3,400 square feet x \$.60 = \$2,040.00

*Your space is 25% better than the Massachusetts Commercial Code
(verified using the ComCheck 3.5.0 software)*

PRISM ENERGY SERVICES, INC. 1000 MASSACHUSETTS AVENUE, SUITE 400, BOSTON, MA 02115



179D Deduction for Government-Owned Buildings

Government-Owned Building (Authorized Representative):

Name: Jeffrey Dore

Address: Millbury Fire Department 126 Elm St. Millbury, MA 01527

Phone: 508-865-5328

Designer receiving allocation of the 179D Deduction (Authorized Representative):

Name: Prism Energy Services

Address: 1150 Hancock Street, Suite 400, Quincy, MA 02139

Phone Number: (617) 328-9896

The Address of the Government-Owned building on or in which the property is installed:

Millbury Fire Department

126 Elm Street

Millbury, MA 01527

The Cost of the property:

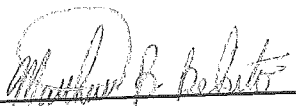
(\$ 889.31

The date the property is placed in service:

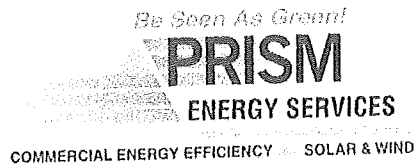
10/23/2009

The amount of the 179D deduction allocated to the designer:

(\$ 889.31

 FIRE CHIEF 1/15/10
Authorized Representative of Government-Owned Building Signature Date

Authorized Representative of Designer Signature Date



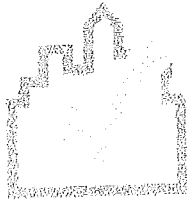
179D Deduction for Government-Owned Buildings

Declaration:

"Under penalties of perjury, I declare that I have examined this allocation, including Accompanying documents, and to the best of my knowledge and belief. The facts presented in support of this allocation are true, correct, and complete."

Michael R. Belito 1/15/10 FIRE CHIEF

Authorized Representative of Government-Owned Building Signature Date



COMcheck Software Version 3.7.0

Interior Lighting and Power Compliance Certificate

90.1 (2007) Standard

Section 1: Project Information

Project Type: **New Construction**

Project Title : **MILLBURY FIRE DEPARTMENT**

Construction Site:
126 ELM STREET
MILLBURY, MA 01527

Owner/Agent:
MA

Designer/Contractor:
PRISM ENERGY SERVICES
1150 HANCOCK STREET, SUITE 400
QUINCY, MA 02169

Section 2: General Information

Building Use Description by:

Building Type
Police/Fire Station

Floor Area
3400

Section 3: Requirements Checklist

Interior Lighting:

- ☐ 1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
3400	2457	YES

- ☐ 2. Exit signs 5 Watts or less per sign.

Controls, Switching, and Wiring:

- ☐ 3. Independent manual or occupancy sensing controls for each space (remote switch with indicator allowed for safety or security).
- ☐ 4. Occupant sensing control in class rooms, conference/meeting rooms, and employee lunch and break rooms.

Exceptions:

Spaces with multi-scene control; shop classrooms, laboratory classrooms, and preschool through 12th grade classrooms.

- ☐ 5. Automatic shutoff control for lighting in >5000 sq.ft buildings by time-of-day device, occupant sensor, or other automatic control.

Exceptions:

24 hour operation lighting; patient care areas; where auto shutoff would endanger safety or security.

- ☐ 6. Master switch at entry to hotel/motel guest room.
- ☐ 7. Separate control device for display/accent lighting, case lighting, task lighting, nonvisual lighting, lighting for sale, and demonstration lighting.
- ☐ 8. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

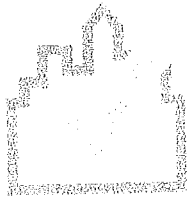
Exceptions:

Electronic high-frequency ballasts;
Luminaires not on same switch;
Recessed luminaires 10 ft. apart or surface/pendant not continuous;
Luminaires on emergency circuits.

Voltage Drop:

- ☐ 9. Feeder conductors have been designed for a maximum voltage drop of 2 percent.
- ☐ 10. Branch circuit conductors have been designed for a maximum voltage drop of 3 percent.

Section 4: Compliance Statement



COMcheck Software Version 3.7.0

Interior Lighting Application Worksheet

90.1 (2007) Standard

Section 1: Allowed Lighting Power Calculation

A	B Floor Area	C Allowed Watts / ft2	D Allowed Watts
Police/Fire Station	3400	1	3400
Total Allowed Watts =			3400

Section 2: Proposed Lighting Power Calculation

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Police/Fire Station (3400 sq.ft.)				
Linear Fluorescent 4: SUPER T8: 2L 4' SUPER T8/EL LP / 48" T8 28W (Super T8) / Premium efficiency	2	2	42	84
Compact Fluorescent 1: CF TWIST: CF 13W TWIST / Spiral 13W / Electronic	1	1	13	13
Compact Fluorescent 2: CF TWIST: CF 23 TWIST / Spiral 23W / Electronic	1	4	23	92
Linear Fluorescent 5: SUPER T8: 3L 4' SUPER T8/EL LP / 48" T8 28W (Super T8) / Premium efficiency	3	13	63	819
Linear Fluorescent 6: SUPER T8 FIXTURE: 3L 4' SUPER T8/EL LP TROFFER / 48" T8 28W (Super T8) / Premium efficiency	3	23	63	1449
Total Proposed Watts =				2457

Section 3: Compliance Calculation

If the Total Allowed Watts minus the Total Proposed Watts is greater than or equal to zero, the building complies.

Total Allowed Watts = 3400
Total Proposed Watts = 2457
Project Compliance = 943

Energy Savings Plan

DETAIL

nationalgrid

Date: 9/22/2009

Application Number: 556889

Customer Name:	TOWN OF MILLBURY FIRE	Application Number :	556889
DBA Name:	MILLBURY FIRE DEPARTMENT	Account Number:	65380-52001
Address :	126 ELM ST	Telephone :	508-865-5328
City :	MILLBURY	Contact Name :	JEFFEREY DORE
State and Zip :	MA 01527	Auditor Name :	MARC LEPAGE
Facility Square Footage :	3400	Audit Date :	09/16/2009

ECM Id	Site Location	ECM Code	ECM Description	Kit Type	Quantity	KW Savings	KWH Savings
347964	Truck Bay	498	Fluor - 3L4 T8/LP 28W	Fluorescent Relamp/Reballast Kit (1-2-3 lamps)	13	0.26	1,081.60
347966	Laundry Room	171	CFL - 22W - Screw In	Compact Fluorescent Screw In Relamp/Reballast Kit	2	0.11	106.00
347969	Side Entrance	497	Fluor - 2L4 T8/LP 28W	Fluorescent Relamp/Reballast Kit (1-2-3 lamps)	1	0.01	27.04
347973	2nd Floor Meeting Rm	498	Fluor - 3L4 T8/LP 28W	Fluorescent Fixture Installation Kit	23	1.01	2,104.96
347982	2nd Floor Bathroom	141	CFL - 13 W - Screw In Fixture	Compact Fluorescent Screw In Relamp/Reballast Kit	1	0.05	50.00
347994	B/u Dispatch	497	Fluor - 2L4 T8/LP 28W	Fluorescent Relamp/Reballast Kit (1-2-3 lamps)	1	0.01	13.00
347998	Side Entrances	171	CFL - 22W - Screw In	Compact Fluorescent Screw In Relamp/Reballast Kit	2	0.11	636.00
Total						1.56	4,018.60

Energy Savings Plan **nationalgrid**

SUMMARY

Application Number: 556889

Date: 9/22/2009

Customer Name:	TOWN OF MILLBURY FIRE	Application Number :	556889
DBA Name:	MILLBURY FIRE DEPARTMENT	Account Number:	65380-52001
	126 ELM ST	Telephone :	508-865-5328
City :	MILLBURY	Contact Name :	JEFFEREY DORE
State and Zip :	MA 01527	Auditor Name :	MARC LEPAGE
Facility Square Footage :	3400	Audit Date :	09/16/2009

Save money on your electric bill by using energy more efficiently. And, through the power of action, you reduce greenhouse gases (CO₂) annually by 4,420 pounds.

Estimated Annual Savings (KWH)
4,018.60

Estimated Annual Savings in Dollars
\$446.87

You pay only 30% of the installation cost - National Grid pays the rest.

Estimated Job Cost	Prevailing Wage	Estimated Customer Contribution @ 30%	Estimated National Grid Contribution @ 70%
\$3,487.49	--	\$1,046.25	\$2,441.24

Payback Period in Months
28

No upfront cost to you - finance your contribution on your monthly electric bill.

Choose from 3 convenient payment options.

Lump Sum Payment (Additional 15% Discount)
\$889.31

12 Monthly Payments (Interest Free)
\$87.19

24 Monthly Payments (Interest Free)
\$43.59

Proposal

TEL. (508) 865-0256

D. LIGHT & SONS SIDING CO., INC.
ROOFS • VINYL SIDING • REPLACEMENT WINDOWS
4 MAIN STREET
MILLBURY, MA 01527
LIC. # 112540



PROPOSAL SUBMITTED TO	PHONE	DATE
PHIL DAY - MILLBURY FIRE STATION	865-5328	4-13-99
STREET	JOB NAME / PHONE	
CITY, STATE & ZIP CODE	JOB LOCATION	

We hereby submit specifications and estimates for:

To install 8 replacement windows in fire station. All windows to have 7/8 insulated glass, double locks, night locks, lock-in screens and low E-Glass. Custom outside casing with Alcoa white aluminum into brick. Insulate all weight cavities with fiberglass insulation. Install grids top and bottom (Regency Windows)

Complete labor and material

Remove all trash to keep job clean

WE PROPOSE hereby to furnish material and labor - complete in accordance with these specifications, for the sum of:

Two Thousand Five Hundred Sixty Dollars and no/100 dollars (\$ 2560.00).
Payable as follows: 1/3 at start, 1/3 halfway & balance upon completion

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Worker's Compensation Insurance.

Authorized
Signature

NOTE: This proposal may be withdrawn
by us if not accepted within _____ days.

Daniel J. Light

ACCEPTANCE OF PROPOSAL - The prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above. You may cancel this transaction, without any penalty or obligation, within three business days from the above date.

Signature [Signature] Date 4.13.99 Signature _____ Date _____



Small Business Energy Efficiency Program

c/o Prism Energy Services, Authorized Vendor
1150 Hancock Street, Suite 400 • Quincy, MA 02169
Phone: (617) 328-9896 • Fax: (617) 328-0496
www.prismenergyservices.com

March 25, 2011

Brad Man Turner
Town of Millbury Public Library
128 Elm. St
Millbury, MA 01527

Re: Energy Savings Plan Application # 826024

Dear Mr. Turner:

Thank you for your participation in the Small Business Energy Efficiency Program. The results of our analysis are enclosed.

In reviewing these results please consider the following benefits of the Small Business Energy Efficiency Program...

- ✓ *Save money on your electric bill for years to come.*
- ✓ *Receive new, state-of-the art lighting at a significant discount - you pay only 30% of the total cost.*
- ✓ *There is no upfront cost to you – finance your contribution through your monthly electric bill. Choose from 3 convenient payment options.*
- ✓ *Enhance your business' curb appeal, productivity and safety while saving money at the same time.*
- ✓ *Installation provided by National Grid authorized Small Business Energy Efficiency Program vendors to ensure quality and maximize energy and cost savings.*
- ✓ *Installation scheduled at your convenience with no disruption to your business.*

We look forward to discussing our Energy Cost Savings Proposal with you. Please call us at 1-800-332-3333 (from within Eastern and Central Massachusetts) or 1-617-328-9896 (outside of Eastern and Central Massachusetts). We'd be pleased to outline the specific cost savings and energy benefits for your facility.

TO BEGIN SAVING MONEY ON YOUR LIGHTING BILL, SIMPLY...

1. ***REVIEW*** the enclosed Terms and Conditions Agreement
2. ***PLEASE INITIAL AT THE BOTTOM OF PAGE 1 AND CHECK OFF*** your payment choice (lump sum, 12 month financing, 24 month financing) ***ON PAGE 2.***
3. ***SIGN*** at the bottom of page 2.
4. ***REVIEW AND SIGN*** the enclosed New Fixture Installation Statement.
5. ***RETURN THE FORMS THAT NEED YOUR SIGNATURE*** in the enclosed self-addressed envelope or ***FAX*** to 1-617-328-0496

Thank you for your interest in Saving Energy.

Sincerely,



Pam McClendon
Director of Small Business Programs
Prism Consulting Inc.

NEW FIXTURE INSTALLATION INFORMATION

The enclosed proposal includes work that **may require additional** costs outside the program. Please be advised that some or all of the following may apply to some installations:

- A contractor may be sent to review your facility prior to the installation. If additional costs are warranted, they will be presented in writing for your approval prior to commencing with the installation. You will have the opportunity to refuse these additional costs, cancel your installation or modify the scope of work that is performed.
- The quantity or layout of new fixtures installed may be different (less) than the quantity of your original lighting. Installing fewer fixtures does not necessarily mean your light levels will be reduced, as the new fixtures have greater light output. That is why they are considered more energy efficient.
- If your project includes a redesign, we may measure your existing light level and record them on the Redesign Form. Please note that this is an Energy Conservation Program. The number of fixtures proposed is based on what you already have. We must save energy in order for you to qualify for new lighting. Our design is intended to match or exceed your existing light levels. A dramatic increase in light levels should not be expected. A modest increase is possible in some instances.

I understand and agree to the above terms and conditions.

Customer Name

Title

Date

Energy Savings Plan **nationalgrid**

SUMMARY

Application Number: 826024

Date: 3/24/2011

Customer Name:	TOWN OF MILLBURY LIBRARY	Application Number :	826024
DBA Name:	TOWN OF MILLBURY PUBLIC LIBRARY	Account Number:	03804-02004
	128 ELM ST	Telephone :	508-865-1181
City :	MILLBURY	Contact Name :	ELIZABETH VALERO
State and Zip :	MA 01527	Auditor Name :	ROSS NOTAROBERTO
Facility Square Footage :	2000	Audit Date :	03/02/2011

Save money on your electric bill by using energy more efficiently. And, through the power of action, you reduce greenhouse gases (CO2) annually by 40,561 pounds.

Estimated Annual Savings (KWH)
36873.96

Estimated Annual Savings in Dollars
\$4,100.38

You pay only 30% of the installation cost - National Grid pays the rest.

Estimated Job Cost
\$21,719.69

Prevailing Wage
--

Estimated Customer Contribution @ 30%
\$6,515.91

Estimated National Grid Contribution @ 70%
\$15,203.78

Payback Period in Months
19

No upfront cost to you - finance your contribution on your monthly electric bill.

Choose from 3 convenient payment options.

Lump Sum Payment (Additional 15% Discount)
\$5,538.52

12 Monthly Payments (Interest Free)
\$542.99

24 Monthly Payments (Interest Free)
\$271.50

Energy Savings Plan

nationalgrid

DETAIL:

Date: 3/24/2011

Application Number: 826024

Customer Name:	TOWN OF MILLBURY LIBRARY	Application Number:	826024
DBA Name:	TOWN OF MILLBURY PUBLIC LIBRARY	Account Number:	03804-02004
Address:	128 ELM ST	Telephone:	508-865-1181
City:	MILLBURY	Contact Name:	ELIZABETH VALERO
State and Zip:	MA 01527	Auditor Name:	ROSS NOTAROBERTO
Facility Square Footage:	2000	Audit Date:	03/02/2011

ECM Id	Site Location	ECM Code	ECM Description	Kit Type	Quantity	KW Savings	KWH Savings
731907	Meeting Room	029	Incand - 75 W	Audit Only	28	0.00	0.00
731908	Meeting Room Closet	497	Fluor - 2L4 T8/LP 28W	Fluorescent Relamp/Reballast Kit (1-2-3 lamps)	1	0.01	13.00
731911	Meeting Room Closet	497	Fluor - 2L4 T8/LP 28W	Fluorescent Relamp/Reballast Kit (1-2-3 lamps)	1	0.01	13.00
731913	Boiler Room	497	Fluor - 2L4 T8/LP 28W	Fluorescent Relamp/Reballast Kit (1-2-3 lamps)	2	0.03	26.00
731914	Panel Room	497	Fluor - 2L4 T8/LP 28W	Fluorescent Relamp/Reballast Kit (1-2-3 lamps)	1	0.01	13.00
731918	Book Storage	247	Fluor - 2L2 T8/LP	Audit Only	6	0.00	0.00
731920	Staff Lounge	247	Fluor - 2L2 T8/LP	Audit Only	9	0.00	0.00
731921	Staff Bathroom	247	Fluor - 2L2 T8/LP	Audit Only	1	0.00	0.00
731932	Childrens Program	110	LED - 14W - HW	Compact Fluorescent New Fixture Hardwired Interior Kit	16	0.70	1,408.00
731937	Childrens Program Closet	497	Fluor - 2L4 T8/LP 28W	Fluorescent Relamp/Reballast Kit (1-2-3 lamps)	1	0.01	13.00
731938	Childrens Bathroom	247	Fluor - 2L2 T8/LP	Audit Only	1	0.00	0.00
731941	Liz's Office	247	Fluor - 2L2 T8/LP	Audit Only	4	0.00	0.00
731943	Back Book Checkout Counte	110	LED - 14W - HW	Compact Fluorescent New Fixture Hardwired Interior Kit	28	1.23	4,932.93

Energy Savings Plan

nationalgrid

DETAIL

Application Number: 826024

Date: 3/24/2011

ECM Id	Site Location	ECM Code	ECM Description	Kit Type	Quantity	KW Savings	KWH Savings
731945	Back Library	171	CFL - 22W - Screw In	Compact Fluorescent Screw In Relamp/Reballast Kit	8	0.54	2,178.18
731975	Back Library	247	Fluor - 2L2 T8/LP	Audit Only	31	0.00	0.00
731978	Main Library	110	LED - 14W - HW	Compact Fluorescent New Fixture Hardwired Interior Kit	40	1.76	7,047.04
731983	Main Library	141	CFL - 13 W - Screw In Fixture	Compact Fluorescent Screw In Relamp/Reballast Kit	2	0.10	400.40
731987	Front Entrance	171	CFL - 22W - Screw In	Compact Fluorescent Screw In Relamp/Reballast Kit	4	0.27	1,089.09
731991	Elevator Machine Room	497	Fluor - 2L4 T8/LP 28W	Fluorescent Relamp/Reballast Kit (1-2-3 lamps)	1	0.01	13.00
731998	Elevator	497	Fluor - 2L4 T8/LP 28W	Fluorescent Relamp/Reballast Kit (1-2-3 lamps)	2	0.06	489.22
732001	Outside Canopy Front Ent	110	LED - 14W - HW	Compact Fluorescent New Fixture Hardwired Interior Kit	2	0.09	352.35
732004	Back Entrance	110	LED - 14W - HW	Compact Fluorescent New Fixture Hardwired Interior Kit	3	0.13	528.53
732011	Back Canopy	110	LED - 14W - HW	Compact Fluorescent New Fixture Hardwired Interior Kit	2	0.09	352.35
732149	Main Library	247	Fluor - 2L2 T8/LP	Audit Only	6	0.00	0.00
732150	Main Library	436	Fluor - 2L4 T8/LP 30W	Fluorescent Relamp/Reballast Kit (1-2-3 lamps)	5	0.05	200.20
732154	Mens Room	247	Fluor - 2L2 T8/LP	Audit Only	1	0.00	0.00
732156	Womens Room	247	Fluor - 2L2 T8/LP	Audit Only	1	0.00	0.00
732159	Server Room	497	Fluor - 2L4 T8/LP 28W	Fluorescent Relamp/Reballast Kit (1-2-3 lamps)	1	0.01	18.20
732162	Meeting Room 2	110	LED - 14W - HW	Compact Fluorescent New Fixture Hardwired Interior Kit	7	0.31	616.00
732165	Local History	499	Fluor - 4L4 T8/LP 28W	Fluorescent Relamp/Reballast Kit (4 lamps)	4	0.09	267.90
732169	Brady Room	110	LED - 14W - HW	Compact Fluorescent New Fixture Hardwired Interior Kit	32	1.41	2,816.00

Energy Savings Plan

nationalgrid

DETAIL

Date: 3/24/2011

Application Number: 826024

ECM Id	Site Location	ECM Code	ECM Description	Kit Type	Quantity	KW Savings	KWH Savings
732175	Directors Office	499	Fluor - 4L4 T8/LP 28W	Fluorescent Relamp/Reballast Kit (4 lamps)	1	0.02	23.00
732179	Hall To Bathroom	436	Fluor - 2L4 T8/LP 30W	Fluorescent Relamp/Reballast Kit (1-2-3 lamps)	1	0.01	10.00
732185	Bathroom	436	Fluor - 2L4 T8/LP 30W	Fluorescent Relamp/Reballast Kit (1-2-3 lamps)	1	0.01	10.00
732189	Admin Office	499	Fluor - 4L4 T8/LP 28W	Fluorescent Relamp/Reballast Kit (4 lamps)	4	0.09	133.95
732192	Janitors Office	497	Fluor - 2L4 T8/LP 28W	Fluorescent Relamp/Reballast Kit (1-2-3 lamps)	1	0.01	13.00
732197	2nd Floor Electrical	497	Fluor - 2L4 T8/LP 28W	Fluorescent Relamp/Reballast Kit (1-2-3 lamps)	1	0.01	13.00
732202	Upstairs	110	LED - 14W - HW	Compact Fluorescent New Fixture Hardwired Interior Kit	47	2.07	8,280.27
732209	Upstairs	499	Fluor - 4L4 T8/LP 28W	Fluorescent Relamp/Reballast Kit (4 lamps)	52	1.20	4,788.78
732213	Upstairs	497	Fluor - 2L4 T8/LP 28W	Fluorescent Relamp/Reballast Kit (1-2-3 lamps)	1	0.01	52.05
732215	Back Stairwell	497	Fluor - 2L4 T8/LP 28W	Fluorescent Relamp/Reballast Kit (1-2-3 lamps)	4	0.05	208.21
732233	Staff Lounge	OccWall1	Occupancy Sensor - Wall	Occupancy Sensor Wall Switch Unit Kit	1	0.23	130.10
732239	Children Program	OccCeil1	Occupancy Sensor - Ceiling	Occupancy Sensor Ceiling Unit Kit	1	0.22	134.40
732240	Server Room	OccWall1	Occupancy Sensor - Wall	Occupancy Sensor Wall Switch Unit Kit	1	0.04	21.00
732241	Brady Room	OccWall1	Occupancy Sensor - Wall	Occupancy Sensor Wall Switch Unit Kit	1	0.45	268.80
Total						11.38	36,873.96

Terms & Conditions

nationalgrid

Date: 3/24/2011

Customer Name:	TOWN OF MILLBURY LIBRARY	Vendor:	PRISM ENERGY SERVICES
Address:	128 ELM ST	Audit Date:	03/02/2011
Town, State, and Zip Code:	MILLBURY, MA 01527	Auditor:	ROSS NOTAROBERTO
Account Number:	03804-02004	Application No:	826024

National Grid ("Company") is offering an energy efficiency program ("Program") to certain commercial and industrial customers ("Customer") that have an average monthly demand less than or equal to 300 kW. Under the Program, the Company is arranging the installation of certain energy efficiency electric and natural gas measures ("Measures") at the facilities of eligible customers. Customer agrees to have a contractor hired by the Company for the Program install the Measures and pay a portion of the installation cost as described in Section Six listed below. The following are terms and conditions that govern the Program and the installation of the Measures.

1. Measures to be Installed

An independent contractor ("Installation Contractor") hired by the Company will install at Customer's property the conservation Measures described in Section Six below. The Installation Contractor shall permanently disable all lamps replaced pursuant to this Agreement (make them unfit for reuse). The disposal of any lighting equipment which is removed (with exception of fluorescent ballasts and lamps) will be the responsibility of the participating Customer. The disposal of any fluorescent ballasts and lamps will be the responsibility of an outside contractor hired by the Company.

2. Installation Date

The Installation Contractor will attempt to install the Measures within thirty (30) days of Customer signing this Agreement.

3. Warranty and Disclaimers

(a) The Company will provide a one-time equipment replacement free of charge for any equipment that fails to operate according to manufacturer's specifications for a period of two years after the date of the original installation. Lamps will be warranted for one year.

(b) Customer may have other warranty rights that may have been provided by the manufacturer of the devices installed under this Agreement. Customer, however, may exercise such rights only against the manufacturer, and not against the Company or its affiliates.

(c) OTHER THAN THE REPLACEMENT WARRANTY STATED IN SUBPARAGRAPH 3(a) ABOVE, NEITHER THE COMPANY NOR ITS AFFILIATES MAKE ANY WARRANTIES OF ANY KIND, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

(d) The Company does not guarantee that the Measures will, in fact, save any level of energy or result in lowering of the customer's utility bill.

(e) Neither the Company nor its affiliates shall be liable to Customer for consequential or incidental damages arising out of the Program, whether in contract, tort (including negligence) or any other theory of recovery.

4. Access to Property

(a) Customer will provide reasonable access to Customer's property during normal business hours for Installation Contractor to perform the installation work.

(b) In addition, the Customer will allow the Company to make a reasonable number of follow-up visits during the twenty-four months following installation, with advance notice and at a time convenient to the customer. The purpose of the follow-up visits is to provide the Company with an opportunity to review the operation of the Measures. During the follow-up visits, the Company may make suggestions to the Customer regarding operation of the Measures, but the Customer is under no obligation to follow any such suggestions. If the Customer does follow any instructions, the Company will not be liable to the Customer in tort (including negligence) for the Customer's reliance on the suggestions.

5. Discretion of Installation Contractor

When undertaking the installation, the Installation Contractor or the Company (at their sole discretion) may choose not to make the installations specified below for reasons related to safety or discovery of unforeseen conditions.

Initial Here: _____

Terms & Conditions

nationalgrid

Date: 3/24/2011

Customer Name: TOWN OF MILLBURY
LIBRARY
Address: 128 ELM ST
Town, State, and Zip Code: MILLBURY, MA 01527

Application No: 826024

6. Equipment and Customer Contribution

(a) The Installation Contractor will install the equipment listed on the attached Small Business Energy Savings Plan, incorporated herein by reference. The estimated cost of the installation including the estimated cost of the Customer's contribution is also itemized on this report. The Customer may choose to pay its cost contribution over twelve or twenty-four months or may choose to pay it in one lump sum. If the Customer chooses to pay it in one lump sum, the Company shall discount the Customer's contribution by 15%.

The Customer opts to pay its cost contribution by (check one):

☐ Lump sum payment of \$5,538.52 includes Customer discount of 15%
☐ Twelve (12) monthly payments of \$542.99 per month
☐ Twenty-four (24) monthly payments of \$271.50 per month

(b) The Customer shall pay no more than the estimated cost shown on the report. If the actual cost of the installation is less than the estimated cost or if the Installation Contractor chooses not to make an installation in accordance with Section 5, the Installation Contractor shall adjust the customer's contribution and advise the Customer.

7. Authorized Signature of Customer

By signing below, the Customer agrees to the applicability of the terms and conditions described above.

CUSTOMER ADDRESS WHERE MEASURES WILL BE INSTALLED:

TOWN OF MILLBURY LIBRARY
128 ELM ST
MILLBURY, MA 01527

Signature: _____

Name (Print): _____

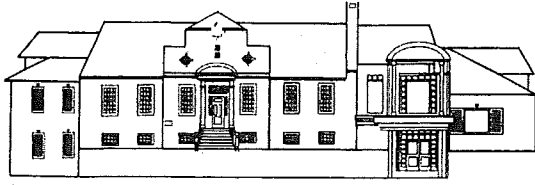
Title: _____

Date: _____

Incorporated ☐Not Incorporated ☐

If Not Incorporated, Federal ID #: _____

MILLBURY PUBLIC LIBRARY



128 ELM STREET MILLBURY, MASSACHUSETTS 01527
(508) 865-1181 FAX: (508) 865-0795

Elizabeth A. Valero
Director

Laurie Connors
Millbury Town Hall
127 Elm Street
Millbury, MA 01527

August 10, 2009

Dear Laurie,

The Millbury Public Library uses energy efficient light bulbs and occupied sensor switches in the main bathrooms. The bathroom faucets also are automatically timed so they can not be left on and lead to water waste.

Sincerely,

A handwritten signature in cursive script that reads "Elizabeth A. Valero".

Elizabeth A. Valero
Director
Millbury Public Library



May 20, 2011

Richard Bedard
School Business Administrator
Millbury Public Schools
12 Martin Street
Millbury, MA 01527

Subject: ICF's Energy Efficiency Walk-through Visits for the Town of Millbury

Dear Mr. Bedard:

ICF Resources, L.L.C. (hereinafter referred to as ICF International or ICF) is pleased to present the results of the energy efficiency walk-through visits conducted for the Town of Millbury on May 18, 2011 for three facilities: Millbury Memorial Junior/Senior High School, the Elmwood Street School, and the Municipal Office Building. The goal of the visits was to identify energy efficiency opportunities to help the Town of Millbury meet the 20% reduction goal required for the Green Communities Energy Reduction Plan.

As requested by the community, the walk-through visits were conducted at a high level without detailed equipment inventories and analysis, but were comprehensive in the scope of energy efficiency measures reviewed. ICF took into consideration all opportunities to reduce energy consumption, including measures affecting all fuel types, and low-cost/no-cost measures as well as capital improvements.

A brief summary of the existing conditions and recommendations for each facility is included below. Estimates for energy savings and implementation costs for recommended energy efficiency measures are presented in a table format on the following pages, similar to the format required for the Green Communities Energy Reduction Plan. The energy savings tables are also provided in Microsoft Excel format, to assist the Town of Millbury in the compilation of its Energy Reduction Plan. The energy savings estimates are based on a visual inspection of the facility, and should be sufficient for planning purposes. In some cases, more detailed study and analysis may be required prior to moving forward with implementation. Cost saving estimates are based on average energy prices in effect at the time this report was prepared.

Millbury Senior/Junior High School

This facility is a 163,793 square foot complex comprised of three buildings, the Senior High School, Junior High School and School Administrative Offices. The schools have approximately 900 students combined. The facility was originally built in 1954 and renovated in 2003. The school has a gymnasium, auditorium library/media room, and two cafeterias served by one gas-fired kitchen with a walk-in refrigerator and walk-in freezer.

The performance of the buildings was assessed using the energy intensity level. For the twelve months ending June 2009, the facility had an energy intensity of 85 kBtu/square

foot. The intensity level represents the combined amount of energy all three buildings use for all fuel types relative to the size of the buildings.

Opportunities to improve the energy efficiency of the facility are summarized below:

- Lighting Retrofit/occupancy sensors – In the Fall of 2009 PRISM Consulting performed a lighting upgrade that included the installation of high performance T8 fixtures throughout the building and occupancy sensors in the majority of the building including classrooms, teacher lounges and the gymnasium. Since this work occurred after the baseline of FY2009, it is included in the list of measures to reach Millbury's 20% reduction goal.
- Retrofit Incandescent Lighting – The auditorium is lit by incandescent recessed fixtures that should be upgraded.
- Additional Occupancy Sensors – Occupancy sensors could be added to the bathrooms.
- Vending Miser – The building has 4 beverage and 4 snack machines that can be equipped with a Vending Miser to reduce energy consumption.
- ECM Motors in Unit Ventilators – Each classroom has a unit ventilator with a motor that can be replaced with an ECM motor to save energy. Savings assume the replacement of all motors.
- Allow Unrestricted Air Flow from Unit Ventilators - Teachers in several classrooms were using the unit ventilators as storage space, with piles of books and papers covering the supply air flow. The unit ventilators will run more efficiently and more effectively if the air flow is unrestricted.
- Control Restroom Exhaust Fans with Occupancy Sensors or Timers
- Recommissioning – Given that the building has relatively high energy consumption and has advanced controls (occupancy sensors controlling heating and lighting, demand control ventilation, and an advanced building management system), it may be a good candidate for recommissioning. It may be possible to optimize the existing building systems and controls to achieve great energy savings.
- Kitchen Exhaust – Kitchen exhaust hoods typically exhaust a constant volume of air. There are control systems available that will sense the steam, smoke and exhaust air temperature, and use a variable speed drive to reduce the exhaust fan speeds by as much as 70% during periods of low activity.
- ECM Motors and Evaporator Fan Controls in Walk-in Coolers – There is 1 walk-in refrigerator and 1 walk-in freezer. The evaporator fans inside walk-in coolers typically run 24 hours per day. Controllers are available that will either cycle off the evaporator fan or reduce the voltage to the evaporator fan to reduce the fan speed when full airflow is not required.

Elmwood Street School

This facility is a 87,343 square foot elementary school serving 639 students. The facility was originally built in 1968 and renovated in 2000. The school has a gymnasium, auditorium, library/media room, and a cafeteria served by a gas fired kitchen with a walk-in refrigerator and walk-in freezer.

For the twelve months ending June 2009, the facility had an energy intensity of 103 kBtu/square foot.

Opportunities to improve the energy efficiency of the facility are summarized below:

- Lighting Retrofit/occupancy sensors – In the Fall of 2009 PRISM Consulting performed a lighting upgrade that included the installation of high performance T8 fixtures throughout the building and occupancy sensors in the majority of the building including classrooms, teacher lounges and the gymnasium. Since this work occurred after the baseline of FY2009, it is included in the list of measures to reach Millbury's 20% reduction goal.
- Additional Occupancy Sensors – Occupancy sensors could be added to the bathrooms and hallways.
- Vending Miser – The building has 1 beverage and 1 snack machines that can be equipped with a Vending Miser to reduce energy consumption.
- ECM Motors in Unit Ventilators – Each classroom has a unit ventilator with a motor that can be replaced with an ECM motor to save energy. Savings assume the replacement of all motors.
- Allow Unrestricted Air Flow from Unit Ventilators - Teachers in several classrooms were using the unit ventilators as storage space, with piles of books and papers covering the supply air flow. The unit ventilators will run more efficiently and more effectively if the air flow is unrestricted.
- Recommissioning – Given that the building has relatively high energy consumption and has advanced controls (occupancy sensors controlling heating and lighting, demand control ventilation, and an advanced building management system), it may be a good candidate for recommissioning. It may be possible to optimize the existing building systems and controls to achieve great energy savings.
- Kitchen Exhaust – Kitchen exhaust hoods typically exhaust a constant volume of air. There are control systems available that will sense the steam, smoke and exhaust air temperature, and use a variable speed drive to reduce the exhaust fan speeds by as much as 70% during periods of low activity.
- ECM Motors and Evaporator Fan Controls in Walk-in Coolers – There is 1 walk-in refrigerator and 1 walk-in freezer. The evaporator fans inside walk-in coolers typically run 24 hours per day. Controllers are available that will either cycle off the evaporator fan or reduce the voltage to the evaporator fan to reduce the fan speed when full airflow is not required.

Municipal Office Building

This facility is a 22,136 square foot two-story office building and police station. The first floor houses the police station with offices, dispatch area, meeting room and approximately four holding cells. On the second floor are the municipal offices with private and open area offices, conference rooms and a lunch room. The facility opens every weekday morning at 8:30 am and is occupied until around 10:00 pm most weeknights.

For the twelve months ending June 2009, the facility had an energy intensity of 79 kBtu/square foot.

Opportunities to improve the energy efficiency of the facility are summarized below:

- Retrofit Fluorescent Lighting to High Performance T8 or T5 lamps
- Vending Miser – The building has 2 beverage and 1 snack machines that can be equipped with a Vending Miser to reduce energy consumption.
- Allow Unrestricted Air Flow from Baseboard Radiators - Employees in several private offices have furniture and other items blocking the baseboard radiators. The radiators will run more efficiently and more effectively if the air flow is

unrestricted.

- Recommissioning – There are significant problems with occupant comfort in the facility and the HVAC system is no longer functioning as designed. Due to floor plan changes thermostat zones are no longer logical. Heat pumps in adjacent open office space are running heating and cooling functions simultaneously. The heat pumps could be controlled so that equipment serving the same rooms will not be able to operate in different modes and fight each other. Baseboard radiators have been retrofitted with controls to allow users to turn them down or off. Boiler reset controls mentioned in the next bullet will optimize the circulating water temperature and allow the baseboard radiators to modulate. Recommissioning the facility will help optimize the existing controls and evaluate if new zoning, equipment or additional controls are needed.
- Replace Boiler Reset Controls – The building currently has a boiler reset control system that is not functioning. A new system should be installed.

Should you have any questions about this information, or require further assistance, please contact me at (978) 358-7680. We wish you the best in your effort to achieve Green Communities designation.

Sincerely,

A handwritten signature in cursive script that reads "Sara Lisauskas".

Sara Lisauskas
Senior Manager
978-358-7680
slisauskas@icfi.com

Energy Use Baseline - by Fuel Type (Similar to Energy Reduction Plan Table 3) FY09							
	Electricity		Natural Gas		Fuel Oil		Total
	kWh	MMBtu	Therms	MMBtu	Gallons	MMBtu	MMBtu
Millbury Memorial Jr/Sr High School	1,636,600	5,584	81,682	8,168	669	93	13,845
Elmwood Street School	980,400	3,345	56,785	5,679	0	0	9,024
Municipal Office Building	248,212	847	0	0	6,551	911	1,757
TOTAL for 3 BUILDINGS	2,865,212	9,776	138,467	13,847	7,220	1,004	24,626
Total for all Buildings in Millbury							33,880
Total Energy Use Baseline for Millbury							48,363

Energy Cost - by Fuel Type FY09							
	Electricity		Natural Gas		Fuel Oil		Total
	Cost	\$/kWh	Cost	\$/Therm	Cost	\$/gallon	Cost
Millbury Memorial Jr/Sr High School	\$263,959	\$0.161	\$110,271	\$1.350	\$1,258	\$1.879	\$375,488
Elmwood Street School	\$162,216	\$0.165	\$76,660	\$1.350	\$0	-	\$238,876
Municipal Office Building	\$40,596	\$0.164	\$0	-	\$11,190	\$1.708	\$51,786
TOTAL for 3 BUILDINGS							\$666,149

Energy Intensity FY09					
	Square Feet	Electricity kBtu/sq ft	Natural Gas kBtu/sq ft	Fuel Oil kBtu/sq ft	Total kBtu/sq ft
Millbury Memorial Jr/Sr High School	163,793	34.1	49.9	0.6	84.5
Elmwood Street School	87,343	38.3	65.0	0.0	103.3
Municipal Office Building	22,136	38.3	0.0	41.1	79.4
TOTAL for 3 BUILDINGS	273,272	35.8	50.7	3.7	90.1

Savings Summary			
	Baseline (MMBtus)	Projected Annual Savings (MMBtus)	% Savings
Millbury Memorial Jr/Sr High School	13,845	2,377	17%
Elmwood Street School	9,024	1,757	19%
Municipal Office Building	1,757	369	21%
	24,626	4,504	18%

- Note: Electricity and Oil costs are from MEI. Natural Gas costs are based on spreadsheet files, because supplier costs have not been entered in MEI.

Energy Conservation Measures (Similar to Energy Reduction Plan Tables 4 and 5)											
Building	Energy Conservation Measure	Projected Annual Savings (kWh)	Projected Annual Savings (therms)	Projected Annual Savings (gallons oil)	Projected Annual Savings (MMBtus)	Projected Cost (\$)	Potential Utility Incentives (\$)	Net Cost	Annual \$ Saved	Years to Payback	Source for Projected Savings
Millbury Memorial Jr/Sr High School	Lighting Retrofit/occupancy sensors	171,632	0	0	585.6			\$0	\$27,461	0.0	PRISM consulting
Millbury Memorial Jr/Sr High School	Retrofit Incandescent Lighting	4,300	0	0	14.7	\$200	\$0	\$200	\$688	0.3	ICF assessment
Millbury Memorial Jr/Sr High School	Additional Occupancy Sensors	3,600	0	0	12.3	\$750	\$250	\$500	\$576	1.3	ICF assessment
Millbury Memorial Jr/Sr High School	Vending Misers	12,000	0	0	40.9	\$1,000	\$420	\$580	\$1,920	0.5	ICF assessment
Millbury Memorial Jr/Sr High School	ECM Motors in Unit Ventilators	35,000	0	0	119.4	\$17,500		\$17,500	\$5,600	3.1	ICF assessment
Millbury Memorial Jr/Sr High School	Allow Unrestricted Air Flow from Unit Ventilators	0	800	0	80.0	\$0	\$0	\$0	\$1,080	0.0	ICF assessment
Millbury Memorial Jr/Sr High School	Control Restroom Exhaust Fans with Occupancy Sensors or Timers	15,000	0	0	51.2	\$2,000		\$2,000	\$2,400	0.8	ICF assessment
Millbury Memorial Jr/Sr High School	Recommissioning	163,700	8,200	70	1388.3	\$50,000		\$50,000	\$37,381	1.3	ICF assessment
Millbury Memorial Jr/Sr High School	Kitchen Exhaust Controls	3,500	700	0	81.9	\$5,000	\$2,000	\$3,000	\$1,505	3.3	ICF assessment
Millbury Memorial Jr/Sr High School	ECM Motors and Evaporator Fan Controls in Walk-in Coolers	2,800	0	0	9.6	\$2,000	\$1,000	\$1,000	\$448	4.5	ICF assessment
	SUBTOTAL	411,532	9,700	70	2383.9	\$78,450	\$3,670	\$74,780	\$79,059	1.0	
Elmwood Street School	Lighting Retrofit/occupancy sensors	167,876	0	0	572.8			\$0	\$26,860	0.0	PRISM consulting
Elmwood Street School	Additional Occupancy Sensors	12,800	0	0	43.7	\$16,500	\$5,500	\$11,000	\$2,048	8.1	ICF assessment
Elmwood Street School	Vending Misers	3,000	0	0	10.2	\$500	\$210	\$290	\$480	1.0	ICF assessment
Elmwood Street School	ECM Motors in Unit Ventilators	25,000	0	0	85.3	\$12,500		\$12,500	\$4,000	3.1	ICF assessment
Elmwood Street School	Allow Unrestricted Air Flow from Unit Ventilators	0	570	0	57.0	\$0	\$0	\$0	\$770	0.0	ICF assessment
Elmwood Street School	Recommissioning	98,000	5,700	0	904.4	\$30,000	\$4,000	\$26,000	\$23,375	1.3	ICF assessment
Elmwood Street School	Kitchen Exhaust Controls	3,500	650	0	76.9	\$5,000	\$2,000	\$3,000	\$1,438	3.5	ICF assessment
Elmwood Street School	ECM Motors and Evaporator Fan Controls in Walk-in Coolers	2,800	0	0	9.6	\$2,000	\$1,000	\$1,000	\$448	4.5	ICF assessment
	SUBTOTAL	312,976	6,920	0	1759.9	\$66,500	\$12,710	\$53,790	\$59,418	1.1	
Municipal Office Building	Retrofit Fluorescent Lighting to High Performance T8 or T5 lamps	10,000	0	0	34.1	\$10,000	\$2,500	\$7,500	\$1,600	6.3	ICF assessment
Municipal Office Building	Vending Misers	4,900	0	0	16.7	\$450	\$180	\$270	\$784	0.6	ICF assessment
Municipal Office Building	Allow Unrestricted Air Flow from Baseboard Radiators	0	0	70	9.7	\$0	\$0	\$0	\$119	0.0	ICF assessment
Municipal Office Building	Recommissioning	37,200	0	990	264.5	\$30,000	\$15,000		\$7,635	3.9	ICF assessment
Municipal Office Building	Replace Boiler Reset Controls	0	0	300	41.7	\$3,500	\$200	\$3,300	\$510	6.9	ICF assessment
	SUBTOTAL	52,100	0	1,360	366.8	\$43,950	\$17,880	\$11,070	\$10,648	4.1	
TOTAL FOR 3 BUILDINGS		776,608	16,620	1,430	4510.6	\$188,900	\$34,260	\$139,640	\$149,125	1.3	

Rates used for cost savings:
 \$0.160 /kWh
 \$1.350 /therm
 \$1.700 /gallon for fuel oil