

WESTON BOARD OF EDUCATION

Monday, August 18, 2014

Weston Middle School Library Resource Center

Regular Session 7:30 p.m.

- | | | |
|--------------|---|-------------|
| I. | CALL TO ORDER, VERIFICATION OF QUORUM
Philip Schaefer, Chairperson | |
| II. | PLEDGE OF ALLEGIANCE | |
| III. | RECOGNITION | None |
| IV. | APPROVAL OF MINUTES, <i>pages 1-6</i>
The Board will vote to approve the minutes from July 16 and July 21. | Motion |
| V. | PUBLIC COMMENT | Information |
| VI. | NEW BUSINESS | |
| | 1. Resignations, <i>pages 7-8</i> | Motion |
| | 2. Approval of NEEM Contract, <i>pages 9-45</i>
Dr. Keating, Director of Finance and Operations, will discuss the NEEM energy conservation project. | Motion |
| | 3. Update on School Facilities, <i>pages 46-49</i>
Dr. Palmer, Superintendent of Schools; Dr. Keating, Director of Finance and Operations; and Mr. Olenik, Director of School Facilities, will provide an update on summer facilities projects. | Information |
| | 4. Financial Update
Dr. Keating, Director of Finance and Operations, will provide a financial update. | Information |
| VII. | SUPERINTENDENT'S REPORT | Information |
| | 1. Next Regular Board Meeting Monday, September 15, 2014, at 7:30 p.m. | |
| | 2. Update on the Opening of the 2014-15 School Year | |
| VIII. | COMMITTEE REPORTS | |
| | 1. Communications Committee - Nina Daniel | Information |
| | 2. Curriculum Committee - Ellen Uzenoff | Information |
| | 3. Finance Committee - Denise Harvey | Information |
| | 4. Facilities Committee - Ellen Uzenoff | Information |
| | 5. Policy Committee - Dana Levin | Information |
| | 6. Negotiations Committee - Denise Harvey | Information |
| | 7. CES - Nina Daniel | Information |
| | 8. CAFE - Elise Major | Information |
| | 9. Weston Education Foundation - Denise Harvey | Information |
| IX. | ADJOURNMENT | Motion |

Weston Public Schools
Board of Education Retreat
Weston High School Conference Room
July 16, 2014

Attendance:

Philip Schaefer, Chairperson	Sara Spaulding
Ellen Uzenoff, Vice Chairperson	Dr. Colleen Palmer, Superintendent
Dana Levin, Secretary/Treasurer	
Nina Daniel	
Elise Major	Absent: Denise Harvey

I. NEW BUSINESS

1. Discussion of District Goals for 2014-15

The Board discussed district areas for district focus for the 2014-2015 school year, including K-12 writing, K-12 math, pathways to success, technology integration, healthy learning environments, and STEM. Dr. Palmer, Superintendent of Schools, also debriefed the Board on topics discussed at the July 7-9 administrative retreat.

2. Annual Review of Board Work

The Board reviewed the work of the past year, as well as looking to the 2014-15 school year for areas of district focus. The Board began a discussion of the Strategic Plan in order to begin its work of the annual update, and it will continue this at future Board Committee meetings throughout the next few months so that a completed plan for this year would be fully articulated by early this fall.

Within the Strategic Plan for 2013-14 the Board had set a goal to consider the addition of student representatives to the Board of Education. The Board adopted a framework for student representatives to begin in fall 2014, with the co-presidents of the student body of Weston High School serving in that capacity. Dr. Palmer had already confirmed interest on the part of these students, anticipating the discussion at this meeting.

Additionally, as part of its yearly review, the Board discussed the flow of its work in terms of what issues should be handled in Committee before coming to the full Board for discussion. It also discussed the most effective strategies for communication in terms of keeping all of the community informed about ongoing matters of the district.

The Board also reviewed strategies to work collaboratively with the Town for efficiencies and effectiveness.

II. ADJOURNMENT

There being no further business to discuss, the meeting adjourned at 2:30 p.m.

Minutes prepared by Jennifer Markov, Board of Education Clerk.

Minutes reviewed/approved by Dr. Colleen Palmer, Superintendent.

Weston Public Schools
Board of Education Meeting
Weston Middle School Library Resource Center
July 21, 2014

Attendance:

Philip Schaefer, Chairperson	Dr. Kenneth Craw, Assistant Superintendent
Ellen Uzenoff, Vice Chairperson	
Dana Levin, Secretary/Treasurer	Absent: Denise Harvey
Nina Daniel	Sara Spaulding
Elise Major	Dr. Jo-Ann Keating, Director of Finance & Ops.
Dr. Colleen Palmer, Superintendent	Lewis Brey, Director of Human Resources

III. RESUME PUBLIC SESSION, PLEDGE OF ALLEGIANCE

IV. RECOGNITION – no report

V. APPROVAL OF MINUTES

The Board voted to approve the minutes from June 16.

Motion: Moved that the Weston Board of Education approves the minutes of the June 16, 2014 Regular and Executive Sessions. Motion by Mrs. Uzenoff, second by Mrs. Levin, all in favor. (5-0)

VI. PUBLIC COMMENT – no report

VII. NEW BUSINESS

1. Resignation

Motion: Moved that the Weston Board of Education notes the resignation of Janice Utsogn, 0.8 FTE Weston High School Latin Teacher, effective July 7, 2014. Motion by Mrs. Levin, second by Ms. Major, all in favor. (5-0)

2. Building Project Close-Outs

Dr. Palmer, Superintendent of Schools, discussed the close-out of Weston Middle School building project, State project number 157-0053 EC. This project occurred two years ago, and involved the replacement of middle school windows and doors.

Motion: Moved that the Weston Board of Education approves filing the form ED049F and the final grant application for a school building project with the Bureau of School Facilities for the Weston Middle School and adopting the following resolution, accepting the project as complete. Be it resolved that the Board of Education accepts the Weston Middle School project, State project

number 157-0053 EC as complete. Motion by Ms. Major, second by Ms. Daniel, all in favor. (5-0)

3. Discussion and Vote on New Introduction to Coding Course

Dr. Craw, Assistant Superintendent, discussed a one-semester coding course that has been reviewed by the Curriculum Committee. Per Dr. Craw, more than 80 students will be taking this course. Discussion by the Board followed.

Motion: Moved that the Weston Board of Education approves the Introduction to Coding course as presented for Weston High School. Motion by Mrs. Levin, second by Ms. Major, all in favor. (5-0)

4. Adoption of Resources

Dr. Craw, Assistant Superintendent, discussed four resources that have been reviewed by the Curriculum Committee and are recommended for approval by the Board of Education, including a classroom resource for the coding course approved in the preceding agenda item.

Motion: Moved that the Weston Board of Education adopts the following resources:

- *Weston High School grades 9-12: “The Practice of Computing Using Python” by William Punch and Richard Enbody;*
- *Weston High School grades 9-10: “Geometry” by Burger, Chard, Kennedy, Leinwand, et al.;*
- *Weston High School grades 10-11: “Pearson Chemistry” by Wilbraham, Staley, Matta and Waterman; and*
- *Weston Middle School grade 6: “World Cultures and Geography” by Peggy Altoff, Mark H. Bockenhauer, and Andrew J. Milson. Motion by Ms. Daniel, second by Ms. Major, all in favor. (5-0)*

5. Discussion and Vote on Superintendent of Schools’ Contract

Members of the Board of Education spoke about the strengths and successes of Dr. Palmer, Superintendent, and thanked her for her continued leadership.

Motion: Moved that the Weston Board of Education extends the contract of Dr. Colleen Palmer (the Superintendent of Schools) for a new term of three years, July 1, 2014 through June 30, 2017. Moved that the Board of Education establishes the salary of \$246,311 or a 2.25% salary adjustment. Moved that the Board of Education authorizes its Chairperson to negotiate and execute a revised contract with the Superintendent of Schools. Motion by Mrs. Uzenoff, second by Mrs. Levin, all in favor. (5-0)

VIII. OLD BUSINESS

1. Proposed 2015-2016 Calendar

Dr. Palmer, Superintendent of Schools, presented the 2015-2016 Weston Public Schools Calendar for approval by the Board of Education. This is the last calendar to be set by districts before the Unified Regional Calendar goes into effect. Discussion by the Board followed.

Motion: Moved that the Weston Board of Education approves the proposed 2015-2016 calendar. Motion by Mrs. Uzenoff, second by Ms. Major, all in favor. (5-0)

2. Weston Board of Education Policies, Regulations, and Bylaws

Dr. Palmer, Superintendent of Schools, and Mrs. Levin, Board of Education Secretary/Treasurer and Chairperson of the Policy Committee, reviewed the following Weston Board of Education policies, regulations, and bylaws:

- A. Policy 1331, Use of Video Monitoring Devices and Video Recordings;
- B. Administrative Regulation R 1331, Use of Use of Video Monitoring Devices and Video Recordings; and
- C. Administrative Regulation R 5133, School Swimming Pool Safety Plan.

Motion: Moved that the Weston Board of Education approves Policy 1331, Use of Video Monitoring Devices and Video Recordings; Administrative Regulation R 1331, Use of Video Monitoring Devices and Video Recordings; and Administrative Regulation R 5133, School Swimming Pool Safety Plan. Motion by Mrs. Levin, second by Ms. Major, all in favor. (5-0)

IX. SUPERINTENDENT'S REPORT

1. Next Regular Board Meeting Monday, August 18, 2014 at 7:30 p.m.

2. District Update

Dr. Palmer, Superintendent of Schools, announced a visit by Governor Malloy to Weston High School earlier in the day to sign a bill concerning the storage and administration of epinephrine at public schools, and the addition of two Board of Education student representatives beginning in September. She also provided an update on the following summer facilities projects: high school E wing renovations; soccer field turf replacement; high school stadium lights installation and sound upgrade; elementary school North House roof replacement; swing sets installation for elementary school; and construction of the wall between the elementary school and senior center.

X. COMMITTEE REPORTS

1. Communications Committee

The next Committee meeting is scheduled for August 14.

2. Curriculum Committee

There is nothing to report beyond what was discussed previously on the agenda. The next Committee meeting is scheduled for September 10.

3. Finance Committee

Nothing to report.

4. Facilities Committee

Mrs. Uzenoff discussed the sound system bid review which occurred at the July 11 meeting. The next Committee meeting is scheduled for August 12.

5. Policy Committee

There is nothing to report beyond what was discussed previously on the agenda.

6. Negotiations Committee

Nothing to report.

7. CES

Nothing to report.

8. CAFE

Ms. Major announced the dates for the annual CAFE Convention.

9. Weston Education Foundation

Nothing to report.

XI. ADJOURNMENT

*Motion: Motion to adjourn by Mrs. Uzenoff, second by Mrs. Levin, all in favor.
(5-0) Meeting adjourned at 8:24 p.m.*

Minutes prepared by Jennifer Markov, Board of Education Clerk.

Minutes reviewed/approved by Dr. Colleen Palmer, Superintendent.

RECEIVED

JUL 18 2014

OFFICE OF THE
SUPERINTENDENT

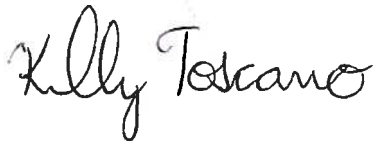
Kelly Toscano
123 Harbor Drive
Unit 207
Stamford, CT 06902

July 16, 2014

Dear Dr. Palmer,

After much deliberation and consideration, it is with a heavy heart that I will be tendering my resignation as a teacher for Weston Public Schools. Given the timing of the situation and the inability to take a second year away from my primary duties as a teacher, my husband and I discussed the many options and have determined that leaving to raise our family is the best course of action for me to take. I truly cherish the years I have spent here in Weston. The bonds that I have formed and the friendships made will never be forgotten.

Sincerely,

A handwritten signature in black ink that reads "Kelly Toscano". The signature is written in a cursive, flowing style.

Kelly Toscano

RECEIVED
JUL 28 2014

OFFICE OF THE
SUPERINTENDENT

Lindsay (Fuchs) Mazza
50 Forest Street, Apt. 1717
Stamford, CT 06901
(203) 470-6404
lcfuchs@gmail.com

July 28, 2014

Attn: Dr. Colleen Palmer
Superintendent
Weston Public Schools
24 School Road
Weston, CT 06883

CC: Lewis Brey- Director of Human Resources
Dr. Kenneth Craw- Assistant Superintendent
Amy L. Watkins- Principal; Weston Middle School
Christina Donigian- CIL World Languages

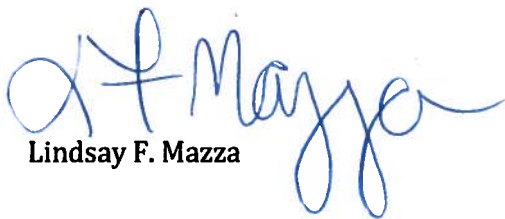
Dear Dr. Palmer,

This letter is to inform you that I will be resigning my position as French teacher at Weston Middle School, effective August 1, 2014.

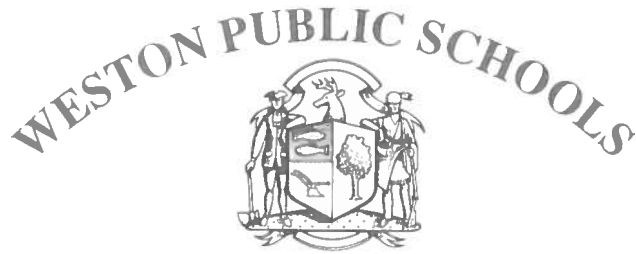
I would like to thank you for the opportunities for professional and personal development that have been provided to me during my last two years here at Weston Middle School. I have valued my time in the Weston Public Schools and appreciate the support and feedback provided to me.

If I can be of any help during this transition, please let me know.

Sincerely,



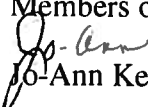
Lindsay F. Mazza



JO-ANN KEATING, Ed.D., SFO
Director of Finance and Operations



Business Office
24 School Road
Weston, Connecticut 06883-1699
Telephone: (203) 291-1407
FAX: (203) 291-1420

To: Colleen Palmer
CC: Members of the Board of Education, Joseph Olenik
From:  Jo-Ann Keating
Subject: CL&P Comprehensive Energy Conservation Incentive Program
Date: August 14, 2014

In the spring of 2013, the school district solicited proposals from companies with successful experience with CL&P's Comprehensive Energy Conservation Incentive Program. Under this program CL&P provides rebates that range from 30% to 50% of the cost of the project, which is based on the scope of work. Furthermore, CL&P provides 0% financing for the portion of the project they do not fund through rebates. The amount financed is paid to CL&P through the monthly billing from the energy savings attributed to the project over the payback period. This enables the district to upgrade equipment and avoid annual maintenance cost with no incremental impact to the budget.

A committee comprised of district staff and a member of the Board of Education's Facility Committee interviewed five companies for this work. Based on a review of the proposals, interviews and experience, the committee selected New England Energy Management, Inc. (NEEM) to perform the work. NEEM conducted a comprehensive study of all buildings in the school district to identify opportunities to retrofit existing equipment, such as light fixtures, motors, monitoring equipment, etc., that are eligible for rebate through CL&P's program. This study was completed in the spring of 2014, and in late June NEEM provided the district with a list of recommendations by building.

After reviewing these reports, the administration is recommending that the district implement the work in phases. Phase I will include Hurlbutt Elementary School and Weston High School. Phase 2 will include Weston Intermediate School, Weston Middle School and the administration buildings. There are two proposals for Hurlbutt Elementary School. The first is referred to as

the “base scope of work”, in which existing exterior fixtures are replaced with energy efficient equipment. The second proposal is referred to as the “alternate scope of work”, in which existing exterior fixtures are replaced with higher output equipment. Attached to this report are copies the two proposals for Hurlbutt Elementary School and the one proposal for Weston High School. The following is a recap of the proposals:

	HES Proposal #1	HES Proposal #2	WHS Proposal #2
Turn Key Cost	98,948.41	100,875.88	179,257.69
Estimated Utility Rebate	39,579.37	40,350.35	71,703.07
Final Cost to WPS	59,369.05	60,525.53	107,554.61
Projected Annual Savings	17,382.14	17,282.18	19,315.38
Return on Investment in Years	3.4 years	3.5 years	5.6 years

Please note that CL&P establishes the cost values of the scope of work and the rebate percent. After the district signs a letter of intent with NEEM for the scope of work, an application for the rebate will be submitted to CL&P for review and approval. Once received, the district will sign a contract with CL&P for the work.

I look forward to discussing this very exciting opportunity with you and the Board of Education on Monday evening at our monthly meeting. In the meantime, please let me know if you have any questions.

JoAnn Keating

From: Pat Lacey <placey@neemgogreen.com>
Sent: Thursday, August 14, 2014 9:54 AM
To: JoAnn Keating
Cc: Joseph Olenik
Subject: Neem Hurlbutt
Attachments: Hurlbutt Interior-Exterior v6md.pdf; RAB_ALED4T78_Specsheet.pdf; RAB_ALED5T52_Specsheet.pdf

JoAnn

I have attached the proposal for Hurlbutt. We have used the manufacturers recommended replacements for the exterior fixtures based on the existing fixtures. Some of the fixtures like the 100w Round fixtures are being replaced by fixtures that will give off additional light. The remaining fixtures are proposed to be equal to or slightly more light. In general in going from HID to LED the lighting due to its improved quality has the appearance of more, even if it is technically the same. It was mentioned yesterday there might be some areas that you would like more light. This can be accomplished by going to a higher output model or using 2 fixtures per pole. In order to determine this and meet your expectations I would need to do a site visit to confirm the areas. Give me a call if you would like to do this.

I have also attached some of the cut sheets for the pole lights and the round fixtures as we talked about.

Regards

Pat Lacey
Senior Efficiency Consultant
New England Energy Management, Inc.
1084 Federal Road
Brookfield, CT 06804
c 203 770-1968
f 203 792-1900
o 203 456-2014
placey@neemgogreen.com

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neem

ENERGY CONSERVATION PROJECT

Prepared for...

**Weston Schools
Hurlbutt
School Rd
Weston, CT**



New England Energy Management, Inc.
August 14, 2014



14-Aug-2014
Weston Schools
Weston, CT

Company Overview

New England Energy Management, Inc. ("NEEM") has been a pioneer in the energy efficiency market since 1988. We are a nationwide organization comprised of technical experts providing turn-key energy solutions. Our services focus on lighting, building automation controls, HVAC, refrigeration, motors, drives, compressed air, solar, geothermal and more.

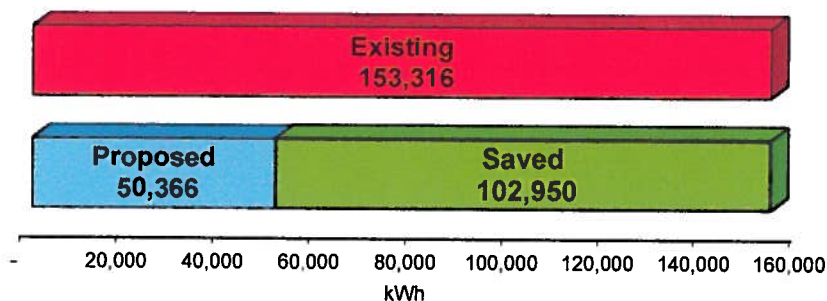
Our core values are built around customer service and satisfaction. Your Project Manager and the entire NEEM personnel will be here to guide you and answer any questions you may have. Our team is focused on serving your needs and doing what it takes to get the job done right, on time and with the least possible impact on your operations.

We have completed thousands of successful projects throughout the country and have an impeccable reputation with some of the country's most recognized businesses including; Ford Motor Company, Pratt & Whitney, Coca Cola, Reebok, Pitney Bowes, Burlington Coat Factory, FedEx, UPS and many more. Please contact for any referral information. We look forward to servicing you with the same level of professionalism and expertise.

Energy Reduction

The project configuration shows a significant reduction in the kilowatt hours for your facility. The reduction in kW demand is a significant factor as utility rates rise in the future, ultimately reducing the project payback.

Lighting Consumption kWh

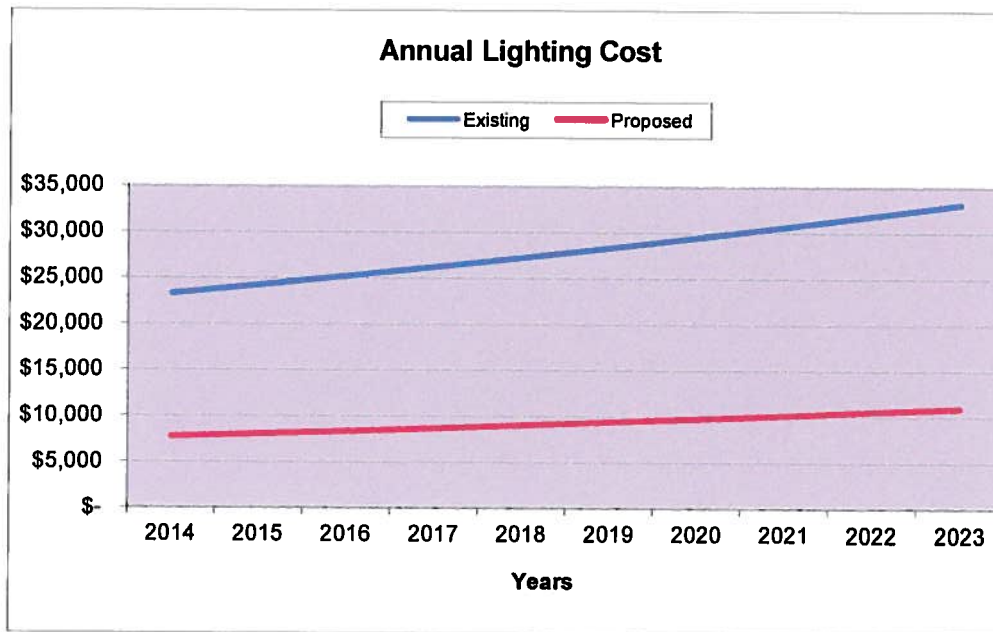


The data used to generate this proposal was derived from a door to door facility assessment performed by NEEM representatives. Although the audit is as accurate as possible, it is sometimes difficult to access every room or every light fixture. This could lead to minor variances from this proposal. Cost related variances will be adjusted at the same unit price quoted in this proposal. Energy savings will also be adjusted accordingly and our Staff will notify the appropriate party of any changes prior to implementation.

The estimated hours of operation used to calculate energy savings were provided to NEEM by your representatives. All existing fixtures are assumed to be functioning and have an operating voltage between 110 and 277 volts. Changes in process, operations, equipment or hours of operation may impact the savings estimates, which NEEM cannot be held responsible.

Long Term Utility Rates and Annual Energy Cost

The annual savings are based on a projected rate increase of 4% per year.



The red line represents current and projected lighting cost. The blue line represents potential savings incurred by implementing suggested measures.

Financing Alternatives

Utility Financing – (If available) Financing can be as low as 0% over term, project payback period. We will pre-qualify with reasonable certainty as part of the proposal preparation process. Cash flow would generally be neutral, dependant upon energy reduction.

Third Party Financing – NEEM regularly works with several third party financial institutions. Rates will vary, based on the aggregate value of the project and customer credit worthiness. In most cases a **positive or neutral cash flow is achieved**.

Federal Incentives

Under the Energy Policy Act (EPAct) of 2005, businesses may deduct up to \$1.80 per square foot for energy efficiency upgrades to their systems or building envelope. Energy lighting projects are eligible for a \$.60 per square foot tax credit. The value is calculated by comparing the energy reduction as a percentage to the Lighting Power Density (“LPD”) per square foot using the ASHRAE/IESNA standards. The LPD varies based on the type of space (e.g. Warehouse, Office, etc.).

NEEM is the only ESCO in the USA to become an independent member of the **BDO Seidman Alliance**. This affiliation gives us access to some of the nation's best tax advisors who can help you get full benefit from your conservation efforts. Please ask for more information on **accelerated depreciation, cost segregation and asset retirement**. Many of our clients take advantage of this valuable BDO partnership to help offset project cost and increase their Return on Investment.



Energy Conservation Project

14-Aug-2014
Weston Schools
Weston, CT

Financial Summary

The Turn Key Cost includes new fixtures or retrofits, bulbs, electronic ballasts, tombstones, internal wiring, reflectors, sensors, etc. (as outlined in Detailed Fixture Summary), labor, delivery, installation, any applicable sales tax, disposal of old materials, 4 year warranty on lamps, 5 year warranty on ballasts, 1 year warranty on labor and service.

Turn Key Cost.....	\$	98,948.41
Estimated Utility Rebate.....	\$	39,579.37
Final Cost to Weston Schools.....	\$	59,369.05
Annual Lighting Energy Savings*.....	\$	15,576.32
Annual HVAC Energy Savings (Estimated).....	\$	54.12
Annual Maintenance Savings.....	\$	<u>1,751.69</u>
TOTAL PROJECT SAVINGS.....	\$	17,382.14
ROI - Lighting Savings Only**.....	3.8 years	
ROI - Lighting, Maintenance and HVAC Savings	3.4 years	
Monthly Savings of Lighting, Maintenance & HVAC..	\$	1,448.51

* Energy savings based upon customer supplied operating hours and an average kWh rate of \$0.151.

**We conservatively calculate a 30% reduction in hours when Sensors are utilized. However, we often see savings greater than 50%. If figured at 50%, the ROI becomes 45.6 months, and when combined with maintenance savings, the ROI falls to 41.0 months.

Hurlbutt Interior-Exterior v6md.xlsx

Energy Recap

	Existing System	Proposed System	Results
Demand	32.0 kW	12.4 kW	19.6 kW SAVED!
Annual Usage	153,316 kW-hours	50,366 kWh	102,950 kWhHours
Annual Cost of Energy	\$23,196.75	\$7,620.42	\$15,576.32 SAVED!

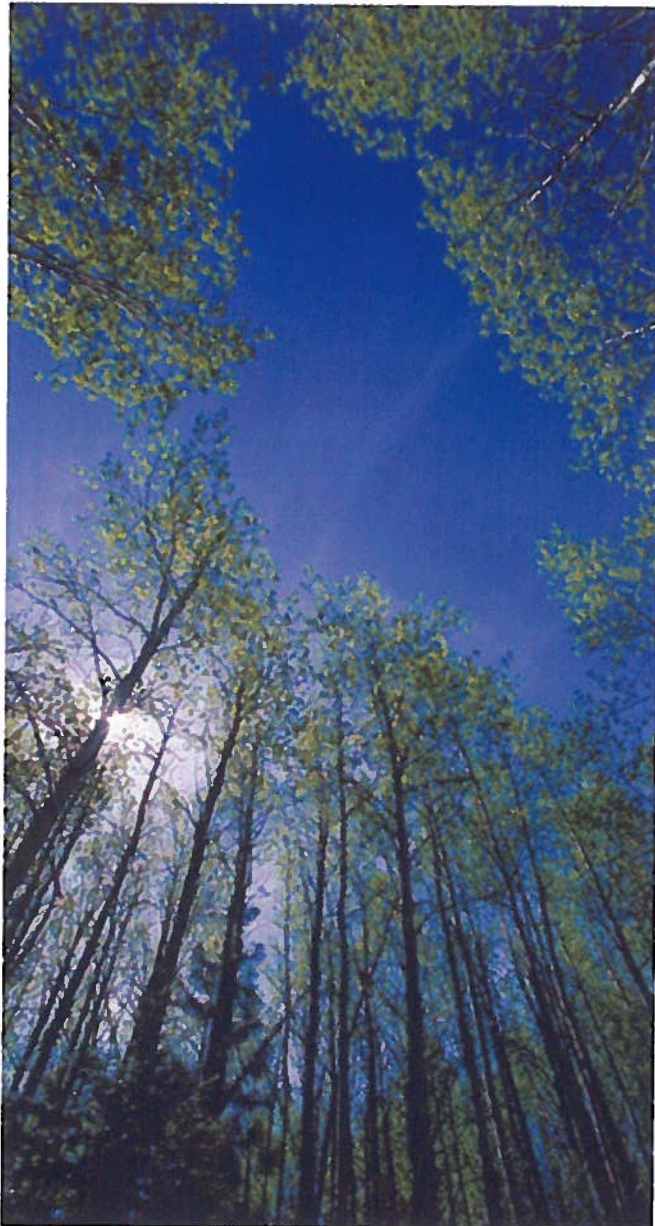
New England Energy Management, Inc. believes that this is one of the most important charts contained within this presentation. Energy is one of the highest expenses associated with operating your facility. As such, this lighting upgrade project will greatly reduce your operating expenses.

With energy costs on the rise, this chart takes a "Static View" of your savings potential: Per Day, Per Week, Per Month, and finally Per Year.

...for every day that you delay, at your current kWh and operating expenditures, you spend this much more than you have to!

<u>Losses Avoided per Day -</u>	\$42.82
<u>Losses Avoided per Week -</u>	\$300.59
<u>Losses Avoided per Month -</u>	\$1,302.54
<u>Losses Avoided per Year -</u>	\$15,630.45

Positive Environmental Impact of Weston Schools's Installation of Proposed Lighting Fixtures



Energy Savings

- 102,950 Kilowatt Hours
- 20 Kilowatts of Demand

Greenhouse and Noxious Gas Emissions Avoided Yearly

- 71,124 lbs Carbon Dioxide
- 241 lbs Sulfur Dioxide
- 85 lbs Nitrogen Oxides
- 10 lbs Carbon Monoxide
- 2 lbs Particulate Matter
- 494 lbs Mercury Compounds
- 4,159 lbs Lead Compounds

These Avoided Emissions are Equivalent To:

- Planting 15 trees every day
- Planting 10 acres of forest per year
- Saving 3,954 gallons of gas each year
- Annually removing 7 cars from the road
- Driving 89,875 fewer miles each year

WESTON SCHOOLS - ENERGY CONSERVATION LIGHTING UPGRADE



Existing Hours of Operation	Existing Quantity	A/C y/n	Building	Depth/Area	Ex Fix Type	Existing Fixture	Existing Watts	Sensor Qty	Sensor Type	New or Retro	Fixture or Type	Proposed Fixture	Notes	New Quantity	Occu-pancy	New Hours of Operation	Existing Watts	New Watts	Total Watts	Existing KWH	New KWH	KWH Saved	\$ Saved Per Year	Maintenance Avoided	
4,004	1 n		Exterior	Wall Light	HPS	HPS 100W	130			New	LED	RAB LEDT8T			1	100%	4004	130	14	116	521	56	464	70.27	10.58
4,004	2 n		Exterior	Side Of Building	HPS	HPS 250W Tube Mount Flood	295			New	LED	RAB LEDT8T			2	100%	4004	295	91	408	2,362	729	1,634	247.17	25.16
4,004	2 n		Exterior	Entire Building	HPS	HPS 50W Canopy Fixture	70			New	LED	BROWNLEE 7702			2	100%	4004	70	12	116	561	96	464	70.27	21.16
4,004	7 n		Exterior	Side Of Building	HPS	HPS 50W Canopy Fixture	70			New	LED	BROWNLEE 7702			7	100%	4004	70	12	406	1,982	336	1,626	245.96	74.04
4,004	6 n		Exterior	Court Yard	HPS	HPS 70W Recessed Can	100			New	LED	MaxLite R Retro			6	100%	4004	100	26	444	2,402	625	1,778	268.98	71.47
4,004	16 n		Exterior	Entire Building	HPS	HPS 70W Trail Pack	100			New	LED	RAB LEDT8T			16	100%	4004	100	14	1376	6,406	897	5,510	833.59	169.24
4,004	7 n		Exterior	Entire Building	HPS	HPS 70W Trail Pack On Stem (see Incandescent 60W)	100			New	LED	RAB LEDT8T			7	100%	4004	100	14	602	2,803	392	2,410	364.69	74.04
4,004	1 n		Exterior	Side Of Building	Incand	Incandescent 60W	60			New	LED	RAB LEDT8T			1	100%	4004	60	14	46	240	56	184	27.87	12.81
4,004	5 n		Exterior	Rear Of Building	M/H	M/H 100W Round Wall Lights	130			New	LED	RAB LEDT8T			5	100%	4004	130	60	350	2,603	1,201	1,401	212.03	90.09
4,004	4 n		Exterior	Front Of Building	M/H	M/H 100W Round Wall Lights	130			New	LED	RAB LEDT8T			4	100%	4004	130	60	280	2,082	961	1,121	169.63	72.07
4,004	16 n		Exterior	Court Yard	M/H	M/H 100W Round Wall Lights	130			New	LED	RAB LEDT8T			16	100%	4004	130	60	280	2,082	961	1,121	169.63	72.07
4,004	7 n		Exterior	Rear Parking	M/H	M/H 175W Post Top Fixtures	205			New	LED	RAB LEDT8T			7	100%	4004	205	60	2370	13,133	3,844	9,289	1,405.47	288.29
4,004	4 n		Exterior	Front Of Building	M/H	M/H 175W Post Top Fixtures	205			New	LED	RAB LEDT8T			4	100%	4004	205	60	1015	5,746	1,682	4,064	614.89	126.13
4,004	11 n		Exterior	Front Parking Lot	M/H	M/H 1250W Pole Light 20'	300			New	LED	RAB LEDT8T			11	100%	4004	300	91	2299	13,213	4,008	9,205	1,392.75	198.20
4,004	9 n		Exterior	Rear Parking	M/H	M/H 1250W Square Pole Light 20'	300			New	LED	RAB LEDT8T			9	100%	4004	300	91	1881	10,811	3,279	7,532	1,139.52	162.16
4,004	6 n		Exterior	Entire Building	M/H	M/H 50W Wall Pack	65			New	LED	RAB LEDT8T			6	100%	4004	65	14	306	1,562	336	1,225	185.38	108.11
4,004	2 n		Exterior	Side Of Building	M/H	M/H 50W Wall Pack	65			New	LED	RAB LEDT8T			2	100%	4004	65	14	102	521	112	408	61.79	36.04
1,826	4		Main	Stage	T8 4Lamp	4F32T8 4' Wrap	110			Retro	T8 R	4F32 T8 LP Lamp/Ballast			4	100%	1826	110	85	100	803	631	183	27.63	7.15
1,844	2		Main	E-28	T8 4Lamp	4F32T8 4' Wrap	110			Retro	T8 R	4F32 T8 LP Lamp/Ballast			2	100%	1844	110	85	50	406	313	92	13.95	3.61
3,129	12		Main	North Hall	T8 4Lamp	4F32T8 4' Wrap	110			Retro	T8 R	4F32 T8 LP Lamp/Ballast			12	100%	3129	110	85	300	4,130	3,192	939	142.03	36.25
1,844	9		Main	N-23	T8 4Lamp	4F32T8 4' Wrap	110			Retro	T8 R	4F32 T8 LP Lamp/Ballast			9	100%	1844	110	85	225	1,826	1,411	415	62.77	16.24
1,844	9		Main	N-22	T8 4Lamp	4F32T8 4' Wrap	110			Retro	T8 R	4F32 T8 LP Lamp/Ballast			9	100%	1844	110	85	225	1,826	1,411	415	62.77	16.24
3,129	9		Main	Hall-Ica C	T8 4Lamp	4F32T8 4' Wrap	110			Retro	T8 R	4F32 T8 LP Lamp/Ballast			9	100%	3129	110	85	225	3,098	2,394	704	106.52	27.56
1,844	9		Main	N-11	T8 4Lamp	4F32T8 4' Wrap	110			Retro	T8 R	4F32 T8 LP Lamp/Ballast			9	100%	1844	110	85	225	1,826	1,411	415	62.77	16.24
1,844	9		Main	N-10	T8 4Lamp	4F32T8 4' Wrap	110			Retro	T8 R	4F32 T8 LP Lamp/Ballast			9	100%	1844	110	85	225	1,826	1,411	415	62.77	16.24
8,760	3 n		Middle Subo 150 KVA			150 KVA	2609.13					150 N/A Premium			3	100%	8760	2609.13	709	5700.4	68,568	18,633	49,935	7,553.23	0.00
							0								0	100%	0	0	0	0	0	0	0	0.00	0
															0	100%	0	0	0	0	0	0	0	0.00	0
	172													172					153,316	50,366	102,950	\$15,576.32	\$1,751.69		

Grand Total = \$ 6,181.33

RECYCLING OF EXISTING LAMPS	\$516.00
SUBTOTAL	\$98,948.41
SALES TAX (exempt)	\$0.00
TOTAL INSTALLED COST	\$98,948.41
(Includes Fixtures, Lamps, Labor & Tools)	
ESTIMATED UTILITY REBATE	\$39,579.37
NEW REVISED COST AFTER REBATES	\$59,369.04
ESTIMATED ASSOCIATED HVAC SAVINGS	\$54.12
ROI - LIGHTING AND HVAC SAVINGS	45.6
(Energy Averted Only)	
MAINTENANCE AVOIDED PER YEAR -	\$1,751.69
Not included in project payback (above)	
PROJECT PAYBACK PERIOD - MONTHS	41.9
Including Maintenance Averted	

Harbuz Interior-Exterior v06d.xlsx

Energy Conservation Project

14-Aug-2014

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Customer Letter of Intent

This letter of intent indicates you wish to move forward with the quoted project. This will allow NEEM to present the project to CL&P and confirm/apply for incentives. NEEM will require a signed credit application, credit approval and/or Purchase Order (unless other financial arrangements are made) before any work begins. In most cases, CL&P will require a pre-inspection to verify measures. CL&P will issue a Letter of Authorization to be signed before any work begins. This LOA is the official contract between CL&P and Weston Schools and will show final costs and incentives.

- 1) Is your business tax exempt? (if so, copy of exempt certificate is required) ☐ YES ☐ NO
- 2) Will you be financing all or part of this project thru CL&P and Connecticut Energy Efficiency Fund Municipal interest free on bill SB/ML program? Approval and acceptance will be required before project begins. ☐ YES ☐ NO
- 3) Who is the contact person for credit Information / PO issuance? _____ ☐ YES ☐ NO
- 4) Will this project go to a board / other decision maker to be approved?
- 5) To whom should the utility's Letter of Authorization be addressed? _____
- 6) What is your desired time line for project completion? _____
- 7) What is the most convenient time for NEEM to work in your facility? _____
- 8) Who should we contact to coordinate the installation? _____

I understand the incentives quoted are subject to verification and may expire at any time without advance notice.

signature *date*

print name

NEEM signature *date*

NEEM Representative

JoAnn Keating

HES Alternate

From: Pat Lacey <placey@neemgogreen.com>
Sent: Thursday, August 14, 2014 1:53 PM
To: JoAnn Keating; Joseph Olenik
Subject: Fwd: Hurlbutt Alternate
Attachments: Hurlbutt Interior-Exterior v6md alt.pdf; RAB_ALED4T105_Specsheet.pdf

JoAnn

Attached is the alternate you requested. We converted the 11 fixtures in the front lot to a higher output fixture. This way you will get considerably more light than you currently do. After our conversation, I checked our information and it showed 5 existing poles with 2 fixtures each and one single pole. This is why we proposed a higher output fixture and not a double fixture (they are already doubles). As you can see this way works out well with the overall cost and payback, while increasing your light output. If you have any questions let me know.

*Patrick D Lacey
Senior Efficiency Consultant
New England Energy Management Inc.
Brookfield, CT 06804
C 203 770-1968
P 203 456-2001
F 203-792-1906
Sent from my Verizon Wireless 4G LTE DROID*

----- Original Message -----

Subject: Hurlbutt Alternate
From: Jeff Wirta <jwirta@neemgogreen.com>
To: Pat Lacey <placey@neemgogreen.com>
CC:

Pat,

Here is the Hurlbutt Alternate with the change for the 11 pole lights in the front of the building. If you need anything else, please let me know.

Jeffrey Wirta
New England Energy Management, Inc
1084 Federal Road
Brookfield, CT. 06804
d 203-648-4100
c 203-948-6094
f 203-792-1906

neem

ENERGY CONSERVATION PROJECT

Prepared for...

**Weston Schools
Hurlbutt ALT
School Rd
Weston, CT**



New England Energy Management, Inc.
August 14, 2014



14-Aug-2014
Weston Schools
Weston, CT

Company Overview

New England Energy Management, Inc. ("NEEM") has been a pioneer in the energy efficiency market since 1988. We are a nationwide organization comprised of technical experts providing turn-key energy solutions. Our services focus on lighting, building automation controls, HVAC, refrigeration, motors, drives, compressed air, solar, geothermal and more.

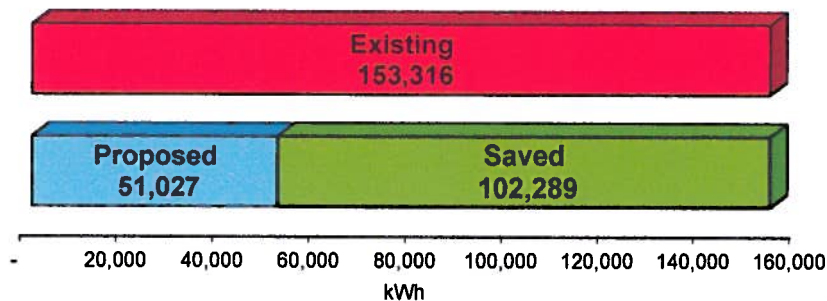
Our core values are built around customer service and satisfaction. Your Project Manager and the entire NEEM personnel will be here to guide you and answer any questions you may have. Our team is focused on serving your needs and doing what it takes to get the job done right, on time and with the least possible impact on your operations.

We have completed thousands of successful projects throughout the country and have an impeccable reputation with some of the country's most recognized businesses including; Ford Motor Company, Pratt & Whitney, Coca Cola, Reebok, Pitney Bowes, Burlington Coat Factory, FedEx, UPS and many more. Please contact for any referral information. We look forward to servicing you with the same level of professionalism and expertise.

Energy Reduction

The project configuration shows a significant reduction in the kilowatt hours for your facility. The reduction in kW demand is a significant factor as utility rates rise in the future, ultimately reducing the project payback.

Lighting Consumption kWh

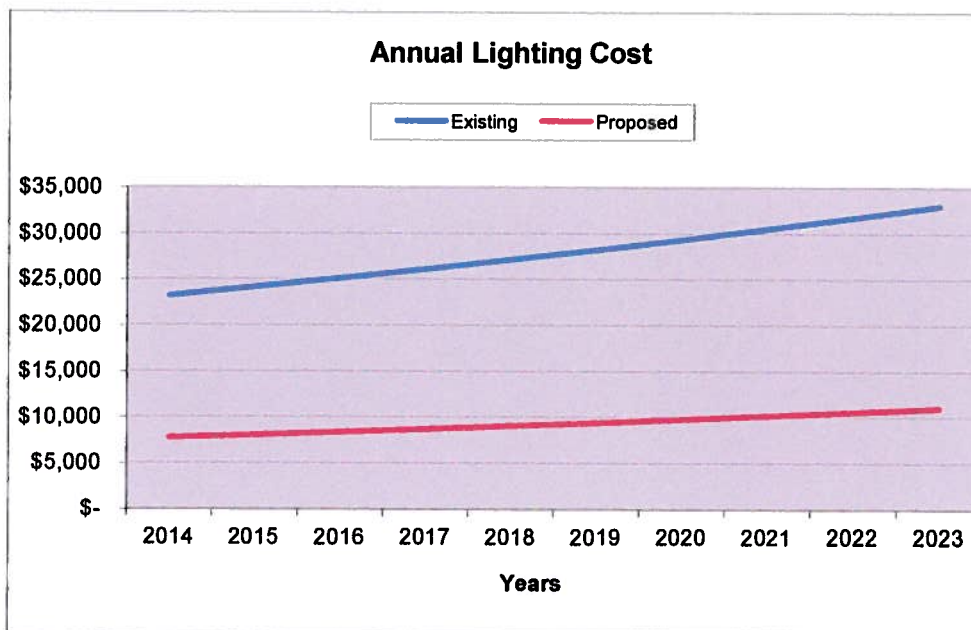


The data used to generate this proposal was derived from a door to door facility assessment performed by NEEM representatives. Although the audit is as accurate as possible, it is sometimes difficult to access every room or every light fixture. This could lead to minor variances from this proposal. Cost related variances will be adjusted at the same unit price quoted in this proposal. Energy savings will also be adjusted accordingly and our Staff will notify the appropriate party of any changes prior to implementation.

The estimated hours of operation used to calculate energy savings were provided to NEEM by your representatives. All existing fixtures are assumed to be functioning and have an operating voltage between 110 and 277 volts. Changes in process, operations, equipment or hours of operation may impact the savings estimates, which NEEM cannot be held responsible.

Long Term Utility Rates and Annual Energy Cost

The annual savings are based on a projected rate increase of 4% per year.



The red line represents current and projected lighting cost. The blue line represents potential savings incurred by implementing suggested measures.

Financing Alternatives

Utility Financing – (If available) Financing can be as low as 0% over term, project payback period. We will pre-qualify with reasonable certainty as part of the proposal preparation process. Cash flow would generally be neutral, dependant upon energy reduction.

Third Party Financing – NEEM regularly works with several third party financial institutions. Rates will vary, based on the aggregate value of the project and customer credit worthiness. In most cases a **positive or neutral cash flow is achieved**.

Federal Incentives

Under the Energy Policy Act (EPAAct) of 2005, businesses may deduct up to \$1.80 per square foot for energy efficiency upgrades to their systems or building envelope. Energy lighting projects are eligible for a \$.60 per square foot tax credit. The value is calculated by comparing the energy reduction as a percentage to the Lighting Power Density (“LPD”) per square foot using the ASHRAE/IESNA standards. The LPD varies based on the type of space (e.g. Warehouse, Office, etc.).

NEEM is the only ESCO in the USA to become an independent member of the **BDO Seidman Alliance**. This affiliation gives us access to some of the nation's best tax advisors who can help you get full benefit from you conservation efforts. Please ask for more information on **accelerated depreciation, cost segregation and asset retirement**. Many of our clients take advantage of this valuable BDO partnership to help offset project cost and increase their Return on Investment.



Energy Conservation Project

14-Aug-2014
Weston Schools
Weston, CT

Financial Summary

The Turn Key Cost includes new fixtures or retrofits, bulbs, electronic ballasts, tombstones, internal wiring, reflectors, sensors, etc. (as outlined in Detailed Fixture Summary), labor, delivery, installation, any applicable sales tax, disposal of old materials, 4 year warranty on lamps, 5 year warranty on ballasts, 1 year warranty on labor and service.

Turn Key Cost.....	\$	100,875.88
Estimated Utility Rebate.....	\$	40,350.35
Final Cost to Weston Schools.....	\$	60,525.53
Annual Lighting Energy Savings*.....	\$	15,476.37
Annual HVAC Energy Savings (Estimated).....	\$	54.12
Annual Maintenance Savings.....	\$	1,751.69
TOTAL PROJECT SAVINGS.....	\$	17,282.18
ROI - Lighting Savings Only**.....		3.9 years
ROI - Lighting, Maintenance and HVAC Savings		3.5 years
Monthly Savings of Lighting, Maintenance & HVAC..	\$	1,440.18

* Energy savings based upon customer supplied operating hours and an average kWh rate of \$0.151.

**We conservatively calculate a 30% reduction in hours when Sensors are utilized. However, we often see savings greater than 50%. If figured at 50%, the ROI becomes 46.8 months, and when combined with maintenance savings, the ROI falls to 42.0 months.

Hurlbutt Interior-Exterior v6md alt.xlsx

Energy Recap

	Existing System	Proposed System	Results
Demand	32.0 kW	12.5 kW	19.5 kW SAVED!
Annual Usage	153,316 kW-hours	51,027 kWh	102,289 kWhHours
Annual Cost of Energy	\$23,196.75	\$7,720.38	\$15,476.37 SAVED!

New England Energy Management, Inc. believes that this is one of the most important charts contained within this presentation. Energy is one of the highest expenses associated with operating your facility. As such, this lighting upgrade project will greatly reduce your operating expenses.

With energy costs on the rise, this chart takes a "Static View" of your savings potential: Per Day, Per Week, Per Month, and finally Per Year.

...for every day that you delay, at your current kWh and operating expenditures, you spend this much more than you have to!

<u>Losses Avoided per Day -</u>	\$42.55
<u>Losses Avoided per Week -</u>	\$298.66
<u>Losses Avoided per Month -</u>	\$1,294.21
<u>Losses Avoided per Year -</u>	\$15,530.49

Positive Environmental Impact of Weston Schools's Installation of Proposed Lighting Fixtures



Energy Savings

- 102,289 Kilowatt Hours
- 19 Kilowatts of Demand

Greenhouse and Noxious Gas Emissions Avoided Yearly

- 70,667 lbs Carbon Dioxide
- 239 lbs Sulfur Dioxide
- 84 lbs Nitrogen Oxides
- 10 lbs Carbon Monoxide
- 2 lbs Particulate Matter
- 491 lbs Mercury Compounds
- 4,132 lbs Lead Compounds

These Avoided Emissions are Equivalent To:

- Planting 15 trees every day
- Planting 10 acres of forest per year
- Saving 3,929 gallons of gas each year
- Annually removing 7 cars from the road
- Driving 89,298 fewer miles each year

172Hurlbutt Interior-Exterior v6md alt.docx

Energy Conservation Project

14-Aug-2014

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Customer Letter of Intent

This letter of intent indicates you wish to move forward with the quoted project. This will allow NEEM to present the project to CL&P and confirm/apply for incentives. NEEM will require a signed credit application, credit approval and/or Purchase Order (unless other financial arrangements are made) before any work begins. In most cases, CL&P will require a pre-inspection to verify measures. CL&P will issue a Letter of Authorization to be signed before any work begins. This LOA is the official contract between CL&P and Weston Schools and will show final costs and incentives.

- 1) Is your business tax exempt? (if so, copy of exempt certificate is required) ☐ YES ☐ NO
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- 6) What is your desired time line for project completion? _____
- 7) What is the most convenient time for NEEM to work in your facility? _____
- 8) Who should we contact to coordinate the installation? _____

I understand the incentives quoted are subject to verification and may expire at any time without advance notice

signature *date*

NEEM signature *date*

print name

NEEM Representative

ALED4T105

Specification grade area lights available in IES Type IV distributions. Suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. Replaces up to 400W metal halide. Patent pending management system. 5 Year Warranty.

Color: Bronze

Weight 32.0 lbs



LED Info

Watts: 105W
Color Temp: 5000K (Cool)
Color Accuracy: 65
L70 Lifespan: 100000
LM79 Lumens: 10,384
Efficacy: 98 LPW

Driver Info

Type: Constant Current
120V: 0.89A
208V: 0.58A
240V: 0.50A
277V: 0.44A
Input Watts: 106W
Efficiency: 99%

Technical Specifications

UL Listing:

Suitable for wet locations.

Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

IES Classification:

The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semiCircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

Effective Projected Area:

EPA = 0.75

LEDs:

Multi-chip, high-output, long-life LEDs

Drivers:

Two Drivers, Constant Current, Class 2, 1400mA, 100-277V, 50/60Hz, 0.8A, Power Factor 99%

THD:

7.6% at 120V, 16.5% at 277V

Ambient Temperature:

Suitable for use in 40°C (104°F) ambient temperatures.

Surge Protection:

4kV

Cold Weather Starting:

The minimum starting temperature is -40°F/-40°C.

Thermal Management:

Superior thermal management with external Air-Flow fins.

Housing:

Die-cast aluminum housing, lens frame and mounting arm.

Mounting:

Heavy-duty mounting arm with "O" ring seal & stainless steel screws

Color Stability:

LED color temperature is warranted to shift no more than 200K in CCT over a 5 year period.

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2011.

Reflector:

Specular vacuum-metallized polycarbonate

Gaskets:

High-temperature silicone gaskets

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

Green Technology:

Mercury and UV free, and RoHS compliant. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80, and have been received the Department of Energy "Lighting Facts" label.

RAB
LIGHTING

Tech Help Line: 888 RAB-1000

Email: sales@rabweb.com

On the web at: www.rabweb.com

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Note: Specifications are subject to change without notice

Page 1 of 2

August 18, 2014 - Page 33

ALED4T105 - continued

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.

California Title 24:

See ALED4T105/BL, ALED4T105/PCS, ALED4T105/PCS2, or ALED4T105/PCT for a 2013 California Title 24 compliant product. Any additional component requirements will be listed in the Title 24 section under technical specifications on the product page.

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

For use on LEED Buildings:

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction.

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

Country of Origin:

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

Buy American Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act.

Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials (October 2010).

Trade Agreements Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.

GSA Schedule:

Suitable in accordance with FAR Subpart 25.4.



Tech Help Line: 888 RAB-1000

Email: sales@rabweb.com

On the web at: www.rabweb.com

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Note: Specifications are subject to change without notice

Page 2 of 2

JoAnn Keating

From: Pat Lacey <placey@neemgogreen.com>
Sent: Friday, August 08, 2014 1:05 PM
To: JoAnn Keating; Joseph Olenik; Fred Nees
Subject: Weston Highschool
Attachments: Weston High School Interior Exterior Comprehensive.pdf

JoAnn

I have attached the revised proposal for the High School.

Keep in mind this is an estimate incentive amount. The incentive level for Comprehensive projects (those with a minimum of 2 different measures) can have an incentive of up to 50% (or based on kWh saved). We have conservatively used 40%. If the measures are maxed out, the final cost to Weston could be as low as \$89,628. Normally the incentive levels are lower than the max due to computation by utility (they do not give us access to this exact formula). The final numbers will be indicated in the pending Letter of Agreement (LOA) from CL&P. This will be the official contract. I have spoken to Rahul that the goal is to be no more than 100k in final cost to Weston. We will be able to adjust as necessary once the final incentive is determined by CL&P.

Our proposal includes a Letter of Intent which will be superseded by the previously mentioned LOA being acceptable. This LOI mentions the CL&P financing being acceptable. Our financial summary page shows the project cost estimates and in the first paragraph indicates that all recycling and disposal costs are included.

I believe this covers the questions you had. If you could sign and return the LOI at your earliest convenience.

As always if there are any additional questions, feel free to contact me.

Have a great weekend.

Pat Lacey
Senior Efficiency Consultant
New England Energy Management, Inc.
1084 Federal Road
Brookfield, CT 06804
c 203 770-1968
f 203 792-1900
o 203 456-2014
placey@neemgogreen.com

Please consider the environment before you print out this email

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neem

ENERGY CONSERVATION PROJECT

Prepared for...

**Weston Schools
Weston High School
115 School Rd
Weston, CT 06883**



New England Energy Management, Inc.
August 8, 2014



8-Aug-2014

Weston Schools

Weston, CT 06883

Company Overview

New England Energy Management, Inc. ("NEEM") has been a pioneer in the energy efficiency market since 1988. We are a nationwide organization comprised of technical experts providing turn-key energy solutions. Our services focus on lighting, building automation controls, HVAC, refrigeration, motors, drives, compressed air, solar, geothermal and more.

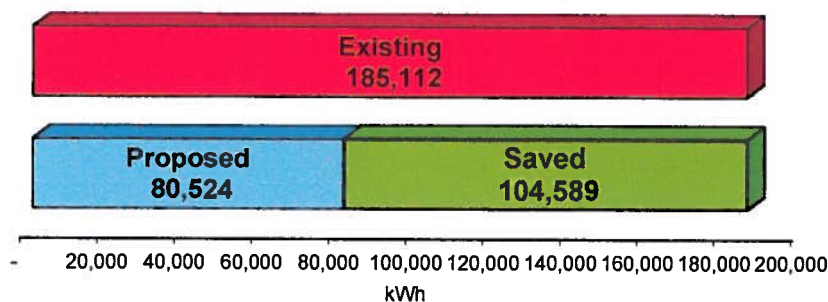
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We have completed thousands of successful projects throughout the country and have an impeccable reputation with some of the country's most recognized businesses including; Ford Motor Company, Pratt & Whitney, Coca Cola, Reebok, Pitney Bowes, Burlington Coat Factory, FedEx, UPS and many more. Please contact for any referral information. We look forward to servicing you with the same level of professionalism and expertise.

Energy Reduction

The project configuration shows a significant reduction in the kilowatt hours for your facility. The reduction in kW demand is a significant factor as utility rates rise in the future, ultimately reducing the project payback.

Lighting Consumption kWh

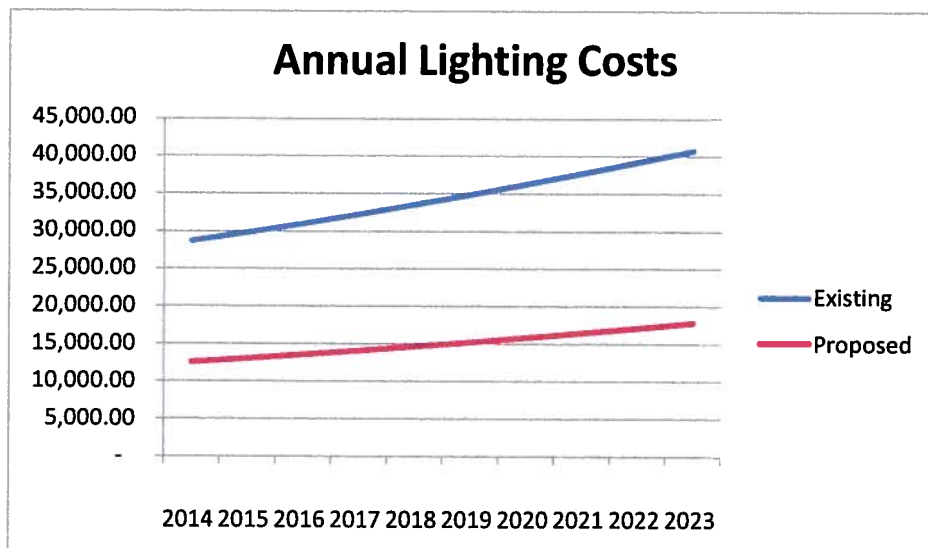


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The estimated hours of operation used to calculate energy savings were provided to NEEM by your representatives. All existing fixtures are assumed to be functioning and have an operating voltage between 110 and 277 volts. Changes in process, operations, equipment or hours of operation may impact the savings estimates, which NEEM cannot be held responsible.

Long Term Utility Rates and Annual Energy Cost

The annual savings are based on a projected rate increase of 4% per year.



The red line represents current and projected lighting cost. The blue line represents potential savings incurred by implementing suggested measures.

Financing Alternatives

Utility Financing – (If available) Financing can be as low as 0% over term, project payback period. We will pre-qualify with reasonable certainty as part of the proposal preparation process. Cash flow would generally be neutral, dependant upon energy reduction.

Third Party Financing – NEEM regularly works with several third party financial institutions. Rates will vary, based on the aggregate value of the project and customer credit worthiness. In most cases a **positive or neutral cash flow is achieved**.

Federal Incentives

Under the Energy Policy Act (EPA) of 2005, businesses may deduct up to \$1.80 per square foot for energy efficiency upgrades to their systems or building envelope. Energy lighting projects are eligible for a \$.60 per square foot tax credit. The value is calculated by comparing the energy reduction as a percentage to the Lighting Power Density (“LPD”) per square foot using the ASHRAE/IESNA standards. The LPD varies based on the type of space (e.g. Warehouse, Office, etc.).

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Energy Conservation Project

8-Aug-2014

Weston Schools

Weston, CT 06883

Financial Summary

The Turn Key Cost includes new fixtures or retrofits, bulbs, electronic ballasts, tombstones, internal wiring, reflectors, sensors, etc. (as outlined in Detailed Fixture Summary), labor, delivery, installation, any applicable sales tax, disposal of old materials, 4 year warranty on lamps, 5 year warranty on ballasts, 1 year warranty on labor and service.

Turn Key Cost.....	\$ 179,257.69
Estimated Utility Rebate.....	\$ 71,703.07
Final Cost to Weston Schools.....	\$ 107,554.61
Annual Lighting Energy Savings*.....	\$ 16,138.05
Annual HVAC Energy Savings (Estimated).....	\$ 484.14
Annual Maintenance Savings.....	\$ 2,693.19
TOTAL PROJECT SAVINGS.....	\$ 19,315.38
ROI - Lighting Savings Only**.....	6.7 years
ROI - Lighting, Maintenance and HVAC Savings	5.6 years
Monthly Savings of Lighting, HVAC, & Maintenance..	\$ 1,609.61

* Energy savings based upon customer supplied operating hours and an average kWh rate of \$0.154.

**We conservatively calculate a 30% reduction in hours when Sensors are utilized. However, we often see savings greater than 50%. If figured at 50%, the ROI becomes 74.7 months, and when combined with maintenance savings, the ROI falls to 64.6 months.

Weston High School Interior Exterior RefrigTrans v8md (no 4-2).xlsx

Energy Recap

	Existing System	Proposed System	Results
Demand	89.5 kW	60.6 kW	28.9 kW SAVED!
Annual Usage	185,112 kW-hours	80,524 kWh	104,589 kWhHours
Annual Cost of Energy	\$28,562.84	\$12,424.79	\$16,138.05 SAVED!

Cost of Delay

New England Energy Management, Inc. believes that this is one of the most important charts contained within this presentation. Energy is one of the highest expenses associated with operating your facility. As such, this lighting upgrade project will greatly reduce your operating expenses.

With energy costs on the rise, this chart takes a "Static View" of your savings potential: Per Day, Per Week, Per Month, and finally Per Year.

...for every day that you delay, at your current kWh and operating expenditures, you spend this much more than you have to!

<u>Losses Avoided per Day -</u>	\$45.54
<u>Losses Avoided per Week -</u>	\$319.66
<u>Losses Avoided per Month -</u>	\$1,385.18
<u>Losses Avoided per Year -</u>	\$16,622.19

Positive Environmental Impact of Weston Schools's Installation of Proposed Lighting Fixtures



Energy Savings

- 104,589 Kilowatt Hours
- 29 Kilowatts of Demand

Greenhouse and Noxious Gas Emissions Avoided Yearly

- 72,256 lbs Carbon Dioxide
- 245 lbs Sulfur Dioxide
- 86 lbs Nitrogen Oxides
- 10 lbs Carbon Monoxide
- 2 lbs Particulate Matter
- 502 lbs Mercury Compounds
- 4,225 lbs Lead Compounds

These Avoided Emissions are Equivalent To:

- Planting 15 trees every day
- Planting 10 acres of forest per year
- Saving 4,017 gallons of gas each year
- Annually removing 7 cars from the road
- Driving 91,305 fewer miles each year

RECYCLING OF EXISTING LAMPS	
REVENUE	\$966.00
SUBTOTAL	\$179,317.00
SALES TAX (exempt)	\$0.00
TOTAL INSTALLED COST	\$179,317.00
<i>(includes Fluores, Lamps, Labor & Tools)</i>	
ESTIMATED UTILITY REBATE	\$71,701.07
NEW REVISED COST AFTER REBATES	\$107,615.93
ESTIMATED ASSOCIATED HVAC SAVINGS	\$484.14
ROI - LIGHTING AND HVAC SAVINGS	77.6
<i>(Energy Avoided Only)</i>	
MAINTENANCE AVOIDED PER YEAR -	\$2,691.98
<i>Not included in project payback (above)</i>	
PROJECT PAYBACK PERIOD - MONTHS	66.8

Energy Conservation Project

8-Aug-2014

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Customer Letter of Intent

This letter of intent indicates you wish to move forward with the quoted project. This will allow NEEM to present the project to CL&P and confirm/apply for incentives. NEEM will require a signed credit application, credit approval and/or Purchase Order (unless other financial arrangements are made) before any work begins. In most cases, CL&P will require a pre-inspection to verify measures. CL&P will issue a Letter of Authorization to be signed before any work begins. This LOA is the official contract between CL&P and Weston Schools and will show final costs and incentives.

- 1) Is your business tax exempt? (if so, copy of exempt certificate is required) ☐ YES ☐ NO
- 2) Will you be financing all or part of this project thru CL&P and Connecticut Energy Efficiency Fund Municipal interest free on bill SB/ML program? Approval and acceptance will be required before project begins. ☐ YES ☐ NO
- 3) Who is the contact person for credit Information / PO issuance? _____
- 4) Will this project go to a board / other decision maker to be approved? ☐ YES ☐ NO
- 5) To whom should the utility's Letter of Authorization be addressed? _____
- 6) What is your desired time line for project completion? _____
- 7) What is the most convenient time for NEEM to work in your facility? _____
- 8) Who should we contact to coordinate the installation? _____

I understand the incentives quoted are subject to verification and may expire at any time without advance notice.

signature

date

NEEM signature

date

print name

NEEM Representative

**WESTON BOARD OF EDUCATION
FACILITIES COMMITTEE MEETING**

August 12, 2014

4:00 p.m.

Town Annex Conference Room

SUMMER PROJECTS UPDATE: INTERIM REPORT

a) Weston High School Window/Door/HVAC:

Project is running smoothly with an anticipated completion date of August 20, 2014. All windows have been installed; however 2 sections were damaged in one classroom and currently have plywood in place until the replacement units arrive. The anticipated arrival date is September 2, 2014. One glass door unit leading into the courtyard was inadvertently omitted from the order by the contractor, the opening is now covered with a temporary plywood door. The anticipated arrival date of the door unit is September 2, 2014.

In reviewing the ongoing installation of the heating system in the classrooms, the facilities department determined that the heating control valve that was being installed was undersized. It was determined that the system required a minimum of a 40lb valve, which means that the next available size, which is a 50 pound valve, should have been specified by the design engineer. New valves were purchased by the mechanical sub-contractor and are presently being installed.

Air conditioning lines were also installed in a new hidden pipe chase which runs throughout all the newly renovated rooms. This will reduce the cost of the installation of ceiling mounted A/C units for a future capital project.

During the next several days the contractor will be installing book cases which will hide the heating elements in each classroom, painting all renovated classrooms, finalizing electrical and control wiring and system testing.

b) Weston High School Turf Replacement:

During the past two weeks the existing turf was removed from the High School field and carted off campus for recycling by Sprinturf Inc. The field was then laser leveled with additional stone to bring up any low areas in the field. After the laser leveling was complete all stone was then compacted making the field ready to receive the new turf. On Monday August 11, 2014 truckloads of the new turf arrived and installation started that evening. The anticipated completion date is August 23, 2014 weather permitting.

c) Weston High School Stadium Lights:

On August 1, 2014 Gagnon Electrical Contractors began work trenching the area on the home side of the field in order to install underground conduit and wiring to control and power the 4 sets of field lighting units. On August 4, 2014 the equipment arrived on site and installation began for the 4 concrete bases which the light poles sit on. On August 11, 2014 Gagnon Electric continued their work by starting the installation of the light posts and fixtures onto the concrete bases. The installation of the equipment, with the exception of the transformer (installed by CL&P), will be complete by August 13, 2014. The District received an invoice for the transformer on August 11, 2014. Payment was overnighted to CL&P on August 12, 2014. The project coordinator informed the District that the transformer should be on site within the next 2 weeks, at which time it will be installed and the commissioning and testing of the system will be done.

d) Weston High School Stadium Sound System:

Auto Home and Commercial Electronic Systems was awarded the bid for the sound system. Installation began on August 12, 2014 at 9:00am. The project will start with the installation of the electronics in the press box followed by the field wiring and speaker installation on the Visitor side on August 19, 2014. The anticipated completion date is August 20, 2014,

e) Weston Middle School Door Replacement:

Empire Energy Specialists, Inc. completed Phase I (F and G Wing) on June 17, 2014 and field measurement for Phase II were taken the same date. A letter of commitment for Phase II (H and C Wings) was sent to the contractor and installation will commence as soon as the doors arrive on site. The work will be done after hours reflecting the Phase I work.

f) North House Roof Replacement and Related Work:

Silktown Roofing has advised us that their anticipated start date for the North House Roof will be Friday August 15, 2014 with an anticipated completion date of August 16, 2014. The flooring contractor will immediately follow by replacing the damaged classroom flooring as well as the stairwell rubberized treads and landing on Monday August 18, 2014. Once the flooring is completed my staff will replace all ceiling tiles. This area will be back in operation before school starts.

g) Senior Center Work:

Over the past two weeks our local contractor, Georgetown Masonry, began erecting a cement block wall separating the Hurlbutt Elementary School from the Senior Center. This

wall was complete on Thursday August 7, 2014, completely separating the senior center and Hurlbutt Elementary School. The Town has begun their renovation on their newly acquired areas with no impact on school operations. The facilities department is constructing a closet on the school side of the masonry wall. This area will be used for storage by the school.

h) Hurlbutt Elementary School Playground /Swings:

After final review and approval by the school principal an order was placed on July 23, 2014 with M.E. O'Brien and Sons Inc. to supply and install a swing set at the Hurlbutt Elementary School. The equipment is expected in 4 to 6 weeks, which will be approximately September 3, 2014. The facilities department will oversee the installation.

i) Weston Middle School Pool Dehumidification:

The reinforced concrete slab, which holds the dehumidification unit, was installed in early July. The slab sits directly outside the pool area in the corner of the lower courtyard. The dehumidification unit was delivered and installed onto the receiving pad by Edgerton on July 24, 2014. Due to a redesign of the supply and return ductwork locations on the building, the engineers are working on a new ductwork and wall installation specification, which we will need for bidding purposes. These specifications are expected to be sent to us within the next 2 weeks at which time we will bid the ductwork fabrication and installation. Further updates will be provided to the Committee.

j) Weston High School Courtyard:

The courtyard adjacent to the main office area was found to have several dead trees as well as overhanging branches onto the building. All trees in the courtyard have been pruned and dead limbs and trees have been removed. The facilities grounds department will be following up by weeding and cleaning all stonework seating areas and the trades' personnel will repair all wooden picnic tables. This work was started on Thursday August 7, 2014 and will be completed on August 16, 2014.

k) Hurlbutt Elementary School Parking:

The town completed the repaving of the East House parking area last week, which will allow the District to relocate 21 parking spaces for school staff. The lining of the area will be complete by August 18, 2014.

l) Weston Intermediate School Ensemble Room:

Acoustic lay-in ceiling tiles have been ordered for installation in the WIS Ensemble Room. The acoustics engineering firm, Controlled Acoustics Corp., visited the site in mid-April and proposed the installation to Dan Clarke. Final approval of the design was given on July 18, 2014 with a delivery date of August 12, 2014. Installation will begin on August 19, 2014 and be completed by August 21, 2014. The tiles will be dropped in the existing framework, but the suspended ceiling framework must have additional supports added to support the extra weight of the tiles. This work will be done in house by facilities staff.

m) Weston Middle School PA/Clock System:

The new system has been integrated with the existing system and is operational for the school year. The final hook up will be continued during the winter break to wire the receiver and install additional electrical outlets. As the new system is tested and fine-tuned, the old system will be taken off-line.

n) Zenon Plant Refurbishment:

The tank relining was completed on 06/26/14.

o) Telephone System/Generator Power Replacement:

Both Hurlbutt Elementary School and Weston Middle School have been completed. Weston Intermediate School will be completed by August 25, 2014. Completion of the High School will require an outside electrical contractor. The estimate to complete this work is approximately \$8,500.00.