

Humphrey Elementary

Replacement of 38 fixtures with LED and
LED Retrofit of 434 fixtures



Lighting Proposal prepared for

Joe McKee

On Behalf of

Chris Dexter

on

04/16/2024

NOBLE

LIGHTING
CONSTRUCTION
SERVICE

ELECTRIC

Humphrey Elementary

EXECUTIVE SUMMARY

COST SUMMARY

TOTAL PROJECT COST	\$35,331.81
LESS Xcel REBATE	-\$16,106.47

NET COST TO CUSTOMER **\$19,225**

SAVINGS SUMMARY

ANNUAL ENERGY SAVINGS	\$8,804
ANNUAL EQUIPMENT SAVINGS	\$3,793
AC SAVINGS	\$337

TOTAL ANNUAL SAVINGS **\$12,935**

SIMPLE PAYBACK **1.49 Years**
SAVINGS OVER 5 YEARS **\$45,448**

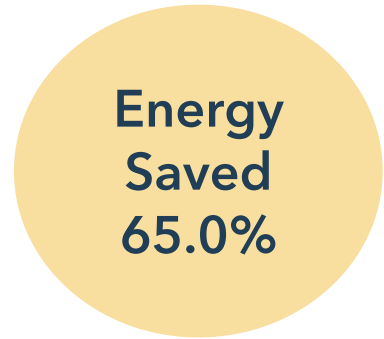
**Cash Flow
Positive in
18 Months!**

PROJECT SUMMARY:

Humphrey Elementary

Savings Summary

TOTAL ANNUAL SAVINGS	\$12,935
ANNUAL ENERGY SAVINGS	\$8,804
ANNUAL EQUIPMENT SAVINGS	\$3,793
AC SAVINGS	\$337
ANNUAL MAINTENANCE LABOR HOURS SAVED	64.8



Energy Use Detail

EXISTING LIGHTING KWH	85,179
PROJECTED LIGHTING KWH	29,806
ANNUAL KWH SAVINGS	55,373

kW (Capacity) - the measure of the WATTAGE divided by 1,000.
kWh (Usage) - kW multiplied by the HOURS provided.

ENERGY SAVINGS DETAIL

Annual kWh Saved		55,373
Kwh Rate	x	\$0.0777
Annual kWh Savings		\$4,302
kW Saved		24.60
kW Rate	x	\$15.25
Annual kW Savings		\$4,502

ENVIRONMENTAL IMPACT

9

CARS REMOVED FROM ROADS



22

TONS OF COAL NOT BURNED



1069

FOREST ACRES NOT CUT



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EQUIPMENT SAVINGS DETAIL

	TOTAL QUANTITY	EXPECTED LIFE (HOURS)	EXPECTED FAILURE PER YEAR
T8 Lamps	1363	14,400	203
Screw-In Lamps	8	12,000	2
HID Lamps	0	15,000	0
Ballasts	472	60,000	17

MATERIAL SUMMARY

	REPLACEMENT PRICE PER PIECE	EXPECTED FAILURE PER YEAR	REPLACEMENT COST PER YEAR
T8 Lamps	\$3.80	203	\$769.90
Screw-In Lamps	\$2.25	2	\$4.29
HID Lamps	\$31.00	0	\$0.00
Ballasts	\$27.00	17	\$454.14

LABOR SUMMARY

	LABOR PER PIECE (MINUTES)	LABOR PER PIECE (DOLLARS)	LABOR PER YEAR
T8 Lamps	9	\$9.03	\$1,829.12
Screw-In Lamps	6	\$4.50	\$8.58
HID Lamps	30	\$22.50	\$0.00
Ballasts	30	\$26.15	\$439.92

RECYCLING SUMMARY

	RECYCLING PER PIECE (DOLLARS)	RECYCLING PER YEAR
T8 Lamps	\$1.00	\$202.60
Screw-In Lamps	\$0.33	\$0.63
HID Lamps	\$0.99	\$0.00
Ballasts	\$5.00	\$84.10

ANNUAL MATERIAL SAVINGS	\$	1,228.33
ANNUAL LABOR SAVINGS	\$	2,277.62
ANNUAL RECYCLING SAVINGS	\$	287.33

ANNUAL SAVINGS	\$	3,793.28
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Humphrey Elementary

	Area	Existing Wattage	Qty	Hours	Work Type	New Lamp/Fixt Type	Qty	Proposed Wattage	Proposed Sensor Type
1	Door 1 Vest	58	2	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	2	19	None
2	Office	85	6	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	6	28.5	None
3	140A	85	2	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	2	28.5	None
4	140C/Rr	58	3	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	3	19	None
5	101	85	1	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	1	28.5	None
6	Main Entry Hall	58	13	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	13	19	None
7	Lunch Room	58	18	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	18	19	None
8	Lunch Room/Hall	32	8	2860	New Rec Can	6" Commercial Downlight 8/12/16W 3/35/4	8	12	None
9	Kitchen/Rr	110	14	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	14	38	None
10	Kitchen Hall	58	2	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	2	19	None
11	Dry Storage	58	2	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	2	19	None
12	Gym Storage	58	1	520	Retrofit\Relamp	T8 4' 9.5W Tube 4K	1	19	None
13	Gym	198	30	1780	New High Bay	160/130/110/90W High Bay, 4/5K	30	130	Network LLLC - Warehouse
14	Gym Office	58	2	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	2	19	None
15	Supply Rm By 103	58	2	520	Retrofit\Relamp	T8 4' 9.5W Tube 4K	2	19	None
16	103 Maint	58	7	520	Retrofit\Relamp	T8 4' 9.5W Tube 4K	7	19	None
17	103 Hall	58	8	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	8	19	None
18	Staff Room	110	6	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	6	38	None
19	Staff Room Closet	58	2	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	2	19	None
20	Rr By Staff Rm	58	1	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	1	19	None
21	105	85	16	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	16	28.5	None
22	105 Closet	58	2	520	Retrofit\Relamp	T8 4' 9.5W Tube 4K	2	19	None
23	107	58	4	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	4	19	None
24	Room In 107	85	3	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	3	28.5	None
25	110/Closet	58	8	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	8	19	None
26	112/Off/Rr	58	12	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	12	19	None
27	Gym Storage By Door F	58	2	520	Retrofit\Relamp	T8 4' 9.5W Tube 4K	2	19	None
28	101 Closet	58	1	520	Retrofit\Relamp	T8 4' 9.5W Tube 4K	1	19	None
29	141	58	2	520	Retrofit\Relamp	T8 4' 9.5W Tube 4K	2	19	None
30	Media/Side Rm	85	14	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	14	28.5	None
31	Media Rr	0	1	1780	DO NOT TOUCH	DO NOT TOUCH	1	0	None
32	Staff Rr	58	1	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	1	19	None
33	143 Conf Rm	85	3	2340	Retrofit\Relamp	T8 4' 9.5W Tube 4K	3	28.5	None
34	Boys Rr	58	2	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	2	19	None
35	145 Jan	58	1	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	1	19	None
36	151	85	10	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	10	28.5	None
37	Girls Rr	58	2	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	2	19	None
38	152	85	12	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	12	28.5	None
39	153	85	12	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	12	28.5	None
40	154	85	12	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	12	28.5	None
41	155	85	12	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	12	28.5	None

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	Area	Existing Wattage	Qty	Hours	Work Type	New Lamp/Fixt Type	Qty	Proposed Wattage	Proposed Sensor Type
42	160	85	6	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	6	28.5	None
43	Hall - 160 To 150	58	13	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	13	19	None
44	Hall - Door B To Door C/Vests	58	8	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	8	19	None
45	167	85	14	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	14	28.5	None
46	167 Rr	58	1	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	1	19	None
47	168	85	16	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	16	28.5	None
48	168 Rr	58	1	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	1	19	None
49	164 Rr	58	1	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	1	19	None
50	164	85	16	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	16	28.5	None
51	Rrs By 164	58	6	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	6	19	None
52	163	85	12	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	12	28.5	None
53	161	85	12	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	12	28.5	None
54	162	85	8	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	8	28.5	None
55	122	58	2	2340	Retrofit\Relamp	T8 4' 9.5W Tube 4K	2	19	None
56	Rrs By 127	58	6	2340	Retrofit\Relamp	T8 4' 9.5W Tube 4K	6	19	None
57	124	58	1	520	Retrofit\Relamp	T8 4' 9.5W Tube 4K	1	19	None
58	127	85	6	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	6	28.5	None
59	129	85	8	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	8	28.5	None
60	128	85	8	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	8	28.5	None
61	131	85	8	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	8	28.5	None
62	130	85	6	1780	Retrofit\Relamp	T8 4' 9.5W Tube 4K	6	28.5	None
63	Temp Classrooms Entry Ramp	0	1	#N/A	DO NOT TOUCH	DO NOT TOUCH	1	0	None
64	Temp Classrooms Hall	85	4	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	4	28.5	None
65	3170	85	12	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	12	28.5	None
66	3172	85	12	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	12	28.5	None
67	3171	85	12	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	12	28.5	None
68	3169	85	12	2860	Retrofit\Relamp	T8 4' 9.5W Tube 4K	12	28.5	None

Noble Conservation Solutions agrees to perform the work detailed above and any work outlined in the Scope of Work Summary. Any work not detailed in the Scope of Work Summary or the Scope of Work Detail are not included in the package price and may be added to the scope of work via a change order for additional cost.

I understand and agree to these terms

Initial

Date

2343 135th Ln NW
Andover, MN 55304

Phone: 763-746-0982
www.NobleCS.com

Date 04/16/2024
THIS PROPOSAL VALID FOR 30 DAYS

Bill To: HLWW Schools	Installation: Humphrey Elementary
8700 County Road 6 SW	803 Elm Ave
Address: Howard Lake	Address: Waverly
MN, 55349	MN, 55390
Contact: Joe McKee	Contact: Joe McKee
Phone: -	Phone: -
Email: jmckee@hlww.k12.mn.us	Email: jmckee@hlww.k12.mn.us

Presented By:
Chris Dexter

QTY	DESCRIPTION	UNIT PRICE	TOTAL
1	Total Project Price for work detailed in scope	\$35,331.81	\$35,331.81
	*Includes: Project Material, Labor, Shipping, Tax, Lamp & Ballast Recycling and Permit.		
	**Emergency/Battery-Backup ballasts are not included in this project.		
	Estimated Utility Rebate		\$16,106.47

Terms:
50% down payment on gross project price (\$17,665.90) before the project begins
45% on completion of job or 95% complete
5% on the completion of the punch list items
1.5% monthly finance charge net 15 days

Proposal Subtotal	\$19,225.34
Shipping & Handling	Included
Tax	Included
TOTAL LESS REBATE	\$19,225.34
TOTAL BEFORE REBATE	\$35,331.81

Repair of any existing electrical system issues that affect standard LED performance or electrical code non-compliance (i.e. Faulty wiring, dirty power, surges, code violations, etc.) are not included in the project price and will be subject to an additional charge.	Initial
Utility rebate above has been estimated based on industry standard calculations and information obtained by NCS or provided by Customer. The estimate has been calculated in good faith but may change based on scope changes or utility review.	Initial
I elect to have Noble CS accept the REBATE RISK, bill me the TOTAL LESS REBATE amount above (rebate paid to Noble CS, amount may differ from estimate)	Initial
I elect to accept the REBATE RISK, bill me the TOTAL BEFORE REBATE amount above (rebate paid to customer, amount may differ from estimate)	Initial

All Change Orders will be signed by both parties before additional work will be scheduled or completed. Additional work requirements by any authority having jurisdiction not specifically stated in this Proposal, shall cost extra. All quotes may need to be re-priced after 30 days from Proposal date above, due to commodity and labor price increases. Any changes in the above specifications shall be made in writing, and as evidence of agreement, shall be signed by both parties, The contractor shall not be held responsible or liable for any loss, damage or delay due to causes beyond its control. It is assumed that all existing customer equipment has sufficient supply voltage to be operational. Unless specifically identified by the customer and documented by separate agreement, Noble Conservation Solutions is not obligated to correct the existing condition and make it operable. In such a case, an estimate will be provided to the customer to fix the issue. If the purchaser disposes of the property by sale or otherwise before this contract has been fulfilled, the full unpaid amount of the contract shall become due and payable at once. □

PLEASE TAKE NOTICE: □

(a) ANY PERSON OR COMPANY SUPPLYING LABOR OR MATERIALS FOR THIS IMPROVEMENT TO YOUR PROPERTY MAY FILE A LIEN AGAINST YOUR PROPERTY IF THAT PERSON OR COMPANY IS NOT PAID FOR THE CONTRIBUTIONS.

(b) UNDER MINNESOTA LAW YOU HAVE THE RIGHT TO PAY PERSONS WHO SUPPLIED LABOR OR MATERIALS FOR THIS IMPROVEMENT DIRECTLY AND DEDUCT THIS AMOUNT FROM OUR CONTRACT PRICE, OR WITHHOLD THE AMOUNTS DUE THEM FROM US UNTIL 120 DAYS AFTER COMPLETION OF THE IMPROVEMENT UNLESS WE GIVE YOU A LIEN WAIVER SIGNED BY PERSONS WHO SUPPLIED ANY LABOR OR MATERIAL FOR THE IMPROVEMENT AND WHO GAVE YOU TIMELY NOTICE. □

Equipment Warranty - Customer understands and agrees that the manufacturers are warranting the actual Equipment pursuant to the terms and conditions of such manufacturer warranties. Such Equipment is warranted to work according to such manufacturers' warranties for the periods prescribed therein. The warranties and remedies of the manufacturers set forth in the respective manufacturers' documents provided are in lieu of all other warranties or conditions, either in fact or by operation of law, statutory or otherwise, including warranties or conditions of merchantability, and fitness for a particular purpose, all of which are expressly disclaimed. The warranty guidelines for the new Equipment are available upon request. Noble agrees to assist Customer with all Equipment Warranty claims; however, in the event that Noble is unable to assist, Customer has the right and responsibility to contact the respective manufacturers directly for warranty claims.

Signature _____
Title _____
Date _____

1.5% Finance Charge on
all Past Due Accounts