LED LIGHTING RETROFIT PROJECT

Facilities Support Services Energy Reduction Strategy Measure Q Board of Education – April 7, 2022

SCOPE OF WORK

LED Lighting Retrofit Facilities Support Services Energy Reduction Strategy Measure Q Board of Education – April 7, 2022

- Replace exterior light fixtures with energy efficient light fixtures. LDV and Leataata Floyd will receive interior LED retrofit also.
- Work in June September, 2022
- 25 sites will receive work
- Average of 90% energy savings per light fixture
- Will receive SMUD energy retrofit rebate
- Expected project payback period of 7.8 years
- District Negotiated 7 year material warranty (1 year typical)
- PLA will apply
 - Inside Wireman classification

PROCUREMENT METHOD

LED Lighting Retrofit Facilities Support Services Energy Reduction Strategy Measure Q Board of Education – April 7, 2022

- Government Code 4217 Energy Service Contract
- Post a notice of public hearing to determine an energy service contract 14 days prior to meeting
- Board hold a public hearing to:
 - Determine whether the anticipated energy cost savings of proposed project has been reasonably established
 - Adopt a resolution to implement the prosed project as an "energy conservation facility" and award an energy service contract to contractor

PROCUREMENT COST ANALYSIS

LED Lighting Retrofit Facilities Support Services Energy Reduction Strategy Measure Q

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• Value of 4217.10 vs Design, Bid, Build

Budgeted Project Cost "Hard"*

ITEM	Quantity	Unit Price	Total Price	
Construction Costs (average price of total units)	4,804	\$477.92	\$2,388,164	
	-\$92,213			
Insurance/Bonds	3% of co	\$57,399		
		\$2,353,350		

 $\ast ln formation$ gathered from local lighting rep firms, supply houses and electrical contractors

Budgeted, Typical Project Cost "Soft"

ITEM	Common %	Total Price	
Scope Development and design	12%	\$282,402	
Construction Management	10%	\$235,335	
Project Allowance/Contingency	5%	\$117,668	

Total Project Budget, Design-Bid-Build



Total Project Budget, 4217.10 et seq.



FINANCIAL ANALYSIS

LED Lighting Retrofit Facilities Support Services Energy Reduction Strategy Measure Q Board of Education – April 7, 2022

Project Investment: \$2,353,350 \$295,920 First year energy savings Maintenance Savings \$19,206 3% Inflation Rate Simple Payback 7.5 years Internal Rate of Return 12% **Energy Cost** Maintenance Cost Net Cost Avoidance Year Avoidance Avoidance One \$295,920 \$19,206 \$315,126 \$304,798 \$19,590 \$324,388 Two \$313,942 \$19,982 \$333,923 Three Four \$323,360 \$20,382 \$343,741 \$333,061 Five \$20,789 \$353,850 Six \$343,052 \$21,205 \$364,257 \$353,344 \$21,629 \$374,973 Seven \$363,944 \$22,062 \$386,006 Eight Nine \$374,863 \$22,503 \$397,365 Ten \$386,108 \$22,953 \$409,061 \$397,692 \$21,805 \$419,497 Eleven Twelve \$409,622 \$20,715 \$430,338 Thirteen \$421,911 \$19,679 \$441,590 \$434,568 \$18,695 \$453,264 Fourteen Fifteen \$447,606 \$17,761 \$465,366 Total \$5,503,791 \$308,956 \$5,812,746

ESTIMATED ENERGY COST SAVINGS

LED Lighting Retrofit

Facilities Support Services Energy Reduction Strategy

Measure Q

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	ENERGY CONSERVATION MEASURES									
MEASURE NUMBER	INCLUDED IN PROJECT	CAMPUS	PROJECT	ANNUAL SAVING S	REBATE	COSTMINUS REBATE	SIMPLE PAYBACK Energy Savings Only			
1	Y	ROSEMONT HS	\$315,050	\$31,693	\$12,225	\$302,825	9.6			
2	Y	EINSTEIN MS	\$173,710	\$18,125	\$6,140	\$167,570	9.2			
3	Y	GOLDEN EMPIRE ES	\$29,120	\$2,098	\$1,217	\$27,903	13.3			
4	Y	CAMELIA BASIC	\$37,825	\$10,343	\$1,640	\$36,185	3.5			
5	Y	SERNA CENTER / ENROLLMENT CENTER	\$89,024	\$23,281	\$8,080	\$80,944	3.5			
6	Y	JOHN STILL MS	\$170,502	\$14,510	\$5,720	\$164,782	11.4			
7	Y	JOHN STILL ES	\$67,040	\$9,923	\$4,100	\$62,940	6.3			
8		ROSA PARKS K-8	\$178,405	\$16,496	\$6,310	\$172,095	10.4			
9	Y	JOHN BIDWELL ES	\$40,185	\$5,000	\$1,508	\$38,677	7.7			
10	Y	PONY EXPRESS ES	\$50,350	\$6,376	\$1,874	\$48,476	7.6			
11	Y	WENZEL K-8	\$27,488	\$5,636	\$1,526	\$25,962	4.6			
12	Y	SCHOOL OF ENG AND SCIENCE	\$105,125	\$14,706	\$3,360	\$101,765	6.9			
13	Y	KENNEDY HS	\$256,345	\$26,839	\$10,147	\$246,198	9.2			
14	Y	SUTTERVILLE ES	\$33,724	\$2,043	\$1,360	\$32,364	15.8			
<u> </u>	Y	HOLLYWOOD PARK	\$37,334	\$4,606	\$1,500	\$35,834	7.8			
16	Y	LEONARDO DA VINCI	\$204,674	\$25,393	\$3,024	\$201,650	7.9			
17	Y	MC CLATCHY HS	\$126,000	\$19,396	\$5,678	\$120,322	6.2			
18	Y	LETAATA FLOYD	\$111,488	\$11,472	\$2,002	\$109,486	9.5			
19	Y	SUTTER MS	\$46,171	\$5,544	\$1,668	\$44,503	8.0			
20	Y	JUDAH ES	\$32,914	\$2,576	\$1,280	\$31,634	12.3			
21	Y	SACRAMENTOHS	\$122,558	\$18,035	\$5,188	\$117,370	6.5			
22	Y	MARKTWIAN	\$27,000	\$3,105	\$1,080	\$25,920	8.3			
23	Y	CHARLES A. JONES SKILL CTR	\$63,880	\$14,637	\$4,120	\$59,760	4.1			
24	Y	CBWIRE	\$42,252	\$4,087	\$1,566	\$40,686	10.0			
		TOTAL	\$2,388,164	\$295,920	\$92,213	\$2,295,951	7.8			
	Estimated ongoing general fund savings 🦯 SMUD Rebate									

NEXT STEPS FOR TONIGHT

LED Lighting Retrofit Facilities Support Services Energy Reduction Strategy Measure Q

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- Hold public hearing
- Board questions and comments
- Action for Resolution Authorizing Energy Service Contract under Government Code 4217.12