

APPENDIX A - ENERGY EFFICIENCY PROJECT COSTS

PROJECT	DESCRIPTION	ESTIMATED COSTS	PRIORITY ³
Recreation Center			
RC-1	Install Natural Gas service from Fairview Ave	\$ 25,000	1
RC-2	Replace HEP-1, 102MBH Heat Pump serving office with gas fired, dx ac package unit	\$ 20,000	1
RC-3	Replace HR-1, 120MBH electric heat with nat gas fired unit. Existing is > 30yrs	\$ 35,000	1
RC-4	Replace AC-2, 136MBH electric heat / AC with nat gas / ac package unit. Existing is > 30yrs	\$ 20,000	1
RC-5	Alternate to RC-1,2,3 above -- Install Geothermal Heat Pump replacing existing heat/ac and controls. \$45/sq ft x 20,000 sq ft. Includes Control upgrade	\$ 900,000	
RC-6	Upgrade building control system to manage hvac, lighting and ventilation	\$ 50,000	1
RC-7	Roofing - Install 2 part foam roofing material over existing roof. Provides insulation and waterproofing	\$ 60,000	2
RC-8	Lighting - Replace existing t-8 and incandescent with Super T-8, LED exit lights, and T-5 Gym lights. Also includes occupancy sensors.	\$ 30,000	1
RECREATION CENTER PRIORITY 1 SUBTOTAL		\$ 180,000	
+8% Design Fee		\$ 194,400	
Police Station			
PS-1	Lighting - Replace existing T-8 and Metal Halide Garage lighting with Super T-8 units.	\$ 40,000	1
PS-2	Replace AHU motors, 2 @ 50 hp, plus 10hp HW pump motor with hi-efficiency motors.	\$ 11,000	1
PS-3	Add VFD drive to 10hp HW pump motor for efficiency	\$ 6,500	1
PS-4	Controls - Install Occupancy Sensors to control lighting and hvac occupancy. \$650/sensor to control lights and hvac in one area.	\$ 50,000	3
POLICE STATION PRIORITY 1 SUBTOTAL		\$ 57,500	
+8% Design Fee		\$ 62,100	
City Hall			
CH-1	Replace pneumatic Building hvac Controls with electronic system.	\$ 200,000	2
CH-2	Replace old >30 yr Chiller, boiler, and pump	\$ 150,000	1
CH-3	Alternate to CH-1 -- Replace existing HVAC system with new, based on water source heat pump. Estimate includes new controls, and ventilation. 22,000 sq ft x \$40/sq ft	\$ 880,000	
CH-4	Lighting - Replace all existing lighting with Super T-8, occupancy sensors, led exit	\$ 40,000	1
CITY HALL PRIORITY 1 SUBTOTAL		\$ 190,000	
+8% Design Fee		\$ 205,200	
Fire Station #1			
FS1-1	Replace Exterior Windows. 22 widows at \$500/ea	\$ 11,000	3
FS1-2	Replace Exterior Garage and Passage Doors	\$ 16,000	2
FS1-3	Upgrade existing lighting to Super t-8	\$ 10,000	1
FS1-4	Replace 1 heat pump, 2 gas fired unit heaters, and 2 gas /AC package units	\$ 25,000	2
Fire Station #3			
FS3-1	Replace Exterior Windows. 22 windows at \$500/ea	\$ 11,000	3
FS3-2	Replace Exterior Garage and Passage Doors	\$ 16,000	2
FS3-3	Replace 2 heat pumps, and 2 gas / AC package units. One unit needs new roof curb and ductwork	\$ 63,000	2
FS3-4	Upgrade existing lighting from T-12 to Super T-8	\$ 10,000	1
FIRE STATION #1 AND #3 PRIORITY 1 SUBTOTAL		\$ 20,000	
Fire Station #6			
FS6-1	Replace Exterior Windows. 43 windows at \$500/ea	\$ 21,500	3
FS6-2	Replace Exterior Garage and Passage Doors	\$ 14,000	2
FS6-3	Replace existing original boiler and terminal units	\$ 50,000	2
Southern Market Center			
SM-1	Replace Cooling Tower 20 yr old	\$ 40,000	2
SM-2	Upgrade Building Controls to manage HVAC occupancy and lighting	\$ 220,000	2
SM-3	Lighting - Upgrade lighting to Super T-8 and LED	\$ 50,000	1
SOUTHERN MARKET CENTER PRIORITY 1 SUBTOTAL		\$ 50,000	

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PROJECT	DESCRIPTION	ESTIMATED COSTS	PRIORITY ³
Wastewater Treatment Plant			
SWTP-1	Lighting - Upgrade lighting to Super T-8 and LED	\$ 50,000	2
TOTALS		\$ 1,379,200 ¹	
		\$ 2,845,000 ²	
Total of all Priority 1 Projects		\$ 531,700	
Total of all Priority 1 Contingency		\$ 2,200	
		\$ 533,900	
EECBG Funding Available		\$ 533,900	

¹ Excludes Projects RC-5 ,CH-3,and Design fees

² Includes Projects RC-5 and CH-3; excludes RC-1,2,3, CH-1 and Design fees

³ Priority Categories:

- 1 - Immediate; EECBG funded
- 2 - Intermediate; 3-5 years funding horizon
- 3 - Medium priority; 5-7 years funding horizon