

**City of Blaine, Minnesota**  
**Energy Efficiency Community Block Grant Program**  
**Budget Justification for February 2012 Amendment**  
**Activity: City Hall and Police Department Retrofits**

**1. Chiller Pumps**

\$5,400 in costs to provide and install an ABB VFD with control wiring for two chiller pumps based on quote from Electric Resource Contractors. This is broken down with \$3,675 for material and \$1,725 for labor.

**2. Restroom Occupancy Sensors**

\$4,200 in costs based on a quote from Electric Resource Contractors for 9 sensors with materials estimated to be \$1,940 and labor at \$2,260.

**3. Police Station Locker Room Sensors**

\$4,300 in costs based on a quote from Electric Resource Contractors for 5 sensors with materials estimated to be \$1,900 and labor \$2,400.

**4. Unheated Garage Lighting**

\$4,875 in costs based on a quote from Electric Resource Contractors to replace 8 garage lights with fluorescent light with materials estimated at \$2,950 and labor \$1,925.

**5. Building Automation System/Outside Air Dampers**

\$6,675 in costs based on a quote from Egan Company includes \$1,725 to replace four CO2 sensors and \$4,950 in labor to include time to replace sensors and change the building automation programming so that outside air dampers on the four air handlers are controlled by CO2 levels in the building.

**6. Hot Water Heaters**

\$6,588 in costs based on a quote from Egan Company includes \$792 in materials and \$5,796 in labor. The labor will include programming the hot water heaters so they are only on during occupied times and build new graphics. It also will ensure that four of the existing hot water heaters are controlled by the pump status and the other five are controlled by a local Variable Air Volume (VAV) box.

**7. Boilers**

\$6,514 in costs based on a quote from Boiler Services, Inc. to convert the boiler burners from high low fire to full modulation burners. Materials are estimated at \$3,625 and labor estimated at \$2,889.

**8. Windows**

\$15,978 in costs based on a quote from Columbia Window Film and Graphics to install 3M Night Vision Series Window Film on 305 window panes. Materials are estimated at \$8,308 and labor at \$7,670.

**9. Energy Management System Upgrade**

\$15,400 in costs based on a quote from Harris Controls to install a new user interface for the City's Energy Management System. This includes \$9,600 in materials and \$5,800 in labor for the installation. This system will integrate the boiler system, chiller system, 115 Variable Air Volume (VAV) controllers, 4 air handling unit (AHU) systems and 6 miscellaneous systems.

**10. Computer Room Improvements**

\$7,845 in costs based on a quote from NAC Mechanical and Electrical Services to modify the supply and return air configuration to create hot/cold aisles and circulation of air, as well as add transfer fan to allow for proper heat rejection. This includes \$4,671 in material and \$3,174 in labor.

**11. Replace Water Heater**

\$10,542 in costs based on a quote from NAC Mechanical & Electrical Services to replace the existing gas water heater with a new high efficiency gas water heater. This includes \$2,133 in materials and \$8,409 in labor.

**12. Replace Electric Water Heater with Under Sink Water Heater**

\$37,456 in costs based on a quote from NAC Mechanical & Electrical Services to remove three water heaters and replace them with 10 new under the sink water heaters. Each water heater will provide hot water to two faucets. Proposal also includes 20 new touchless, low flow faucets, modifying plumbing, and changing the control panels. This includes \$21,331 in materials and \$16,125 in labor.

**13. Relamping City Hall**

\$18,816 in costs based on a quote from MSI Total Building Maintenance to replace 1,683, 32 watt T-8 lamps within City Hall with 28 watt T-8 lamps, as well as replace 514, 26 watt CFL with 21 watt CFL within City Hall. This includes \$11,157 in materials, \$5,994 in labor, and \$1,665 to rent a lift for the replacement.

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**Activity: Naples Street Trail**

Item No.	Description	Unit	Estimated Quantity	Unit Price	Amount
1	MOBILIZATION	LS	1.00	\$8,000.00	\$8,000.00
2	TRAFFIC CONTROL	LS	1.00	\$3,000.00	\$3,000.00
3	REMOVE CONCRETE CURB AND GUTTER	LF	16.00	\$10.00	\$160.00
4	SALVAGE AND REINSTALL SIGN TYPE C	EA	7.00	\$140.00	\$980.00
5	SALVAGE AND REINSTALL FES	EA	4.00	\$800.00	\$3,200.00
6	TRAIL PREPARATION	LF	1,313.00	\$10.00	\$13,130.00
7	COMMON BORROW	CY	1,380.00	\$15.00	\$20,700.00
8	AGGREGATE BASE CLASS 5	TN	425.00	\$25.00	\$10,625.00
9	TYPE SP12.5 WEARING COURSE MIXTURE (4.B)	TN	180.00	\$82.00	\$14,760.00
10	CONNECT TO EXISTING STORM SEWER PIPE	EA	4.00	\$775.00	\$3,100.00
11	12" RCP CL V.	LF	32.00	\$82.00	\$2,624.00
12	RIP RAP CL III	CY	16.00	\$95.00	\$1,520.00
13	SURMOUNTABLE CONCRETE CURB AND GUTTER	LF	16.00	\$15.00	\$240.00
14	6" CONCRETE PEDESTRIAN CURB RAMP	EA	2.00	\$425.00	\$850.00
15	TRUNCATED DOMES	SF	20.00	\$35.00	\$700.00
16	SILT FENCE	LF	1,400.00	\$5.00	\$7,000.00
17	HYDRO SEEDING	AC	0.04	\$2,800.00	\$112.00
18	STORM DRAIN INLET PROTECTION	EA	6.00	\$200.00	\$1,200.00
19	4" SOLID LINE WHITE - EPOXY	LF	1,318.00	\$1.00	\$1,318.00
20	COMMON EXCAVATION (MITIGATION)	CY	645.00	\$27.00	\$17,415.00
21	REVISE SIGNAL SYSTEM	SYS	1.00	\$2,500.00	\$2,500.00
<b>TOTAL</b>					<b>\$113,134.00</b>



**Legend**

	Drainage Easement
	Sanitary Sewer Easement
	Street Utility Easement
	Utility Easement
	Walkway, Sidewalk, Bike Easement
	Proposed Trail
	Sidewalk
	Trail

**Naples Street Trail to Park & Ride**

1 inch = 300 feet  
 Map Date: January 13, 2012