

**Green Bay Area Public School District
Qualified School Construction Bond Project List
June 10, 2009**

School	Project	Cost	Cost by School
East High	insulate Air Handling Unit cabinet and relocate control cabinet of auditorium Heating-Ventilating-Air Conditioning unit to prevent freeze stat tripping and premature failure of control module	16,000	
East High	expand Direct Digital Control system to control the gym Air Handling Unit	30,000	
East High	retro-commission building to identify and/or reduce energy consumption	75,000	
East High	replace gym lighting and expand Direct Digital Control system to control lighting	65,000	\$186,000
Preble High	modify building pressure control, damper repair, and rebalance outdoor air minimum settings	40,000	
Preble High	install Variable Frequency Drives on return air fans	45,000	
Preble High	install Variable Frequency Drives on heating pumps	28,500	
Preble High	expand Direct Digital Control system to control 35 unit ventilators	135,000	
Preble High	replace lighting in the gyms, commons and upgrade lighting throughout building and expand control to the Direct Digital Control system	130,000	\$378,500
Southwest High	replace the return, relief and outdoor air dampers on Heating-Ventilating-Air Conditioning units	65,000	
Southwest High	update Heating-Ventilating-Air Conditioning units' filter rack system from roll filters to pleated filters	12,500	
Southwest High	replace potable water heaters and control circulating pumps	32,000	\$109,500
West High	expand the Direct Digital Control system to control hallway lighting and circulating pumps	50,000	
West High	install Variable Frequency Drives on heating pumps	22,000	
West High	install potable hot water pump control	3,000	
West High	replace gym lighting and expand Direct Digital Control system to control lighting	66,000	\$141,000
Edison Middle	convert Air Control units to Variable Air Volume systems, add ductwork and registers in classrooms	250,000	
Edison Middle	replace return, relief and outdoor air dampers on Heating-Ventilating-Air Conditioning units	75,000	
Edison Middle	convert Heating-Ventilating-Air Conditioning units' filter rack system from roll filters to pleated filters	25,000	
Edison Middle	expand Direct Digital Control system to control 6 Air Handling Units	50,000	
Edison Middle	expand Direct Digital Control system to control 5 Air Handling Units, boilers and chiller	75,000	
Edison Middle	replace pool boiler, potable water heaters and control circulating pumps	80,000	
Edison Middle	install high efficiency heat exchangers to pool heating system	24,000	
Edison Middle	expand the Direct Digital Control system to control hallway lighting and circulating pumps	45,000	
Edison Middle	install linkage-less controls on 2 boilers	18,000	
Edison Middle	replace gym lighting and expand Direct Digital Control system to control lighting	23,000	\$665,000
Franklin Middle	install linkage-less controls on 3 boilers	27,000	
Franklin Middle	replace potable water heaters and pump control	20,000	
Franklin Middle	replace lighting in entire building and install Direct Digital Control system	384,000	\$431,000
Lombardi Middle	expand Direct Digital Control system to control Air Control #1's Variable Air Volume boxes	30,000	
Lombardi Middle	replace potable water heaters and pump control	32,000	
Lombardi Middle	install linkage-less controls on 2 boilers	18,000	

**Green Bay Area Public School District
Qualified School Construction Bond Project List
June 10, 2009**

School	Project	Cost	Cost by School
Lombardi Middle	replace gym lighting and expand Direct Digital Control system to control lighting	30,000	\$110,000
Washington Middle	install Direct Digital Control system to control hallway lighting and circulating pumps	45,000	
Washington Middle	install Direct Digital Control system to control 12 Air Handling Units, boilers and exhaust fans	125,000	
Washington Middle	install potable hot water pump control	4,000	
Washington Middle	replace classroom lighting and upgrade lighting throughout building	20,000	\$194,000
Aldo Leopold K-8	install potable hot water pump control	2,000	
Aldo Leopold K-8	replace gym lighting	12,000	\$14,000
Red Smith K-8	install Variable Frequency Drives on heating pumps	17,000	
Red Smith K-8	install linkage-less controls on 2 boilers	18,000	\$35,000
Baird Elem.	replace gym lighting	6,000	
Baird Elem.	install kilowatt meters and Direct Digital Control system to schedule equipment	12,500	\$18,500
Beaumont Elem.	replace gym lighting	7,000	\$7,000
Chappell Elem.	replace gym lighting and install Direct Digital Control system	13,000	
Chappell Elem.	install potable hot water pump control	6,000	
Chappell Elem.	install kilowatt meters and Direct Digital Control system to schedule equipment	12,500	\$31,500
Danz Elem.	replace gym lighting	5,000	\$5,000
Doty Elem.	install Direct Digital Control system to control 4 Air Handling Units	40,000	
Doty Elem.	install Direct Digital Control system to control 1 Air Handling Unit, boilers and chiller	30,000	
Doty Elem.	install Direct Digital Control system to control booster coils and/or Variable Air Volume boxes	60,000	
Doty Elem.	install electrical Demand Limiting control	10,625	\$140,625
Eisenhower Elem.	replace obsolete Direct Digital Control system to control Air Handling Unit and Variable Air Volume boxes	45,000	
Eisenhower Elem.	install potable hot water pump control	2,000	
Eisenhower Elem.	replace gym lighting	6,000	\$53,000
Elmore Elem.	replace gym lighting	6,000	\$6,000
Ft. Howard Elem.	install Direct Digital Control system to control booster coils and Variable Air Volume boxes	40,000	
Ft. Howard Elem.	replace obsolete Direct Digital Control system to control 5 Air Handling Units and boiler	55,000	
Ft. Howard Elem.	install Variable Frequency Drives on Air Handling Units and heating pumps	24,500	
Ft. Howard Elem.	replace gym lighting	6,000	
Ft. Howard Elem.	install potable hot water pump control	8,000	
Ft. Howard Elem.	install kilowatt meters and Direct Digital Control system to schedule equipment	12,500	\$146,000
Howe Elem.	install Direct Digital Control system to control 4 Air Handling Units, boilers and chiller	68,000	
Howe Elem.	install Variable Frequency Drives on heating pumps	14,000	
Howe Elem.	replace gym lighting	8,000	
Howe Elem.	install potable hot water pump control	2,000	
Howe Elem.	install electrical Demand Limiting control	10,625	\$102,625

**Green Bay Area Public School District
Qualified School Construction Bond Project List
June 10, 2009**

School	Project	Cost	Cost by School
Jackson Elem.	install Direct Digital Control system to control 4 Air Handling Units, boilers and chiller	50,000	
Jackson Elem.	install Variable Frequency Drives on the heating pumps	14,000	
Jackson Elem.	install electrical Demand Limiting control	10,625	\$74,625
Jefferson Elem.	replace obsolete Direct Digital Control system to control Air Handling Units and boilers	30,000	
Jefferson Elem.	install potable hot water pump control	2,000	
Jefferson Elem.	replace gym lighting	7,000	\$39,000
Kennedy Elem.	replace potable water heaters and pump control	12,000	
Kennedy Elem.	replace gym lighting	7,000	
Kennedy Elem.	install kilowatt meters and Direct Digital Control system to schedule equipment	12,500	\$31,500
King Elem.	install Direct Digital Control system to control Air Handling Units #1 & #2 booster coils and Variable Air Volume boxes	29,000	
King Elem.	replace obsolete Direct Digital Control system to control Air Handling Units and boilers	65,000	
King Elem.	install Variable Frequency Drives on heating pumps	12,500	
King Elem.	replace gym lighting	7,000	
King Elem.	install electrical Demand Limiting control	10,625	\$124,125
Lincoln Elem.	install Direct Digital Control system to control booster coils and Variable Air Volume boxes	68,500	
Lincoln Elem.	replace obsolete Direct Digital Control system to control Air Handling Units, boilers and chiller	45,000	
Lincoln Elem.	replace gym lighting	7,000	
Lincoln Elem.	install potable hot water pump control	9,000	
Lincoln Elem.	install kilowatt meters and Direct Digital Control system to schedule equipment	12,500	\$142,000
MacArthur Elem.	expand Direct Digital Control system to control 2 Air Handling Units and boilers	30,000	\$30,000
Martin Elem.	install Direct Digital Control system to control 4 Air Handling Units, boilers and chiller	65,000	
Martin Elem.	install electrical Demand Limiting control	10,625	
Martin Elem.	install Direct Digital Control system to control booster coils and Variable Air Volume boxes	62,000	\$137,625
McAuliffe Elem.	install Direct Digital Control system to control booster coils and Variable Air Volume boxes	64,500	
McAuliffe Elem.	replace obsolete Direct Digital Control system to control Air Handling Units, boilers and chiller	55,000	
McAuliffe Elem.	install Variable Frequency Drives on Air Handling Units and heating pumps	25,000	
McAuliffe Elem.	install potable hot water pump control	2,000	
McAuliffe Elem.	install electrical Demand Limiting control	10,625	
McAuliffe Elem.	replace gym lighting	7,000	\$164,125
Nicolet Elem.	expand Direct Digital Control system to control 2 Air Handling Units	17,000	
Nicolet Elem.	install Variable Frequency Drives on heating pumps	12,000	
Nicolet Elem.	replace potable water heater	3,000	
Nicolet Elem.	replace gym lighting	6,000	
Nicolet Elem.	install kilowatt meters and Direct Digital Control system to schedule equipment	12,500	\$50,500
Sullivan Elem.	install Direct Digital Control system to control 3 Air Handling Units, boilers and chiller	52,000	

**Green Bay Area Public School District
Qualified School Construction Bond Project List
June 10, 2009**

School	Project	Cost	Cost by School
Sullivan Elem.	install electrical Demand Limiting control	10,625	
Sullivan Elem.	replace gym lighting	15,000	\$77,625
Tank Elem.	replace gym lighting	5,000	
Tank Elem.	install potable hot water pump control	2,000	
Tank Elem.	install kilowatt meters and Direct Digital Control system to schedule equipment	12,500	\$19,500
Webster Elem.	install potable hot water pump control	2,000	\$2,000
Wequiock Elem.	install Direct Digital Control system to control 3 Air Handling Units, boilers and chiller	52,000	
Wequiock Elem.	install Direct Digital Control system to control Variable Air Volume boxes	45,000	
Wequiock Elem.	install kilowatt meters and Direct Digital Control system to schedule equipment	12,500	\$109,500
Wilder Elem.	install Direct Digital Control system to control 3 Air Handling Units, boilers and chiller	55,000	
Wilder Elem.	install electrical Demand Limiting control	10,625	
Wilder Elem.	replace gym lighting	8,000	\$73,625
District Office	install Direct Digital Control system to control 13 Air Handling Units	120,000	
District Office	install Variable Frequency Drives on the Air Handling Units	30,000	\$150,000
	TOTAL:		\$4,000,000