



# Sure Bet for Schools



## Gymnasium Lighting Retrofit Project

### Eureka School District, Crescent Valley Elementary School

#### Project Description:

Crescent Valley Elementary School has replaced existing High Intensity Discharge fixtures with T5 High Output 4-lamp fluorescent light fixtures in the school's two common areas. Two outside fixtures were also retrofitted with 70 Watt Metal Halide lamps and motion sensors. In addition, occupancy sensors were added in the hallways.

*Contractor: Quality Control Systems*

#### Results/Benefits:

This project involved converting 18 HID fixtures in common area one to 12 - T5 "Big Gym High Output" fixtures with 4 lamps and Electronic Ballasts. This conversion allowed six fixtures to be permanently removed. An additional four fixtures were replaced in common area two. Significant improvements in light levels were measured by the contractor and the previously noticeable "hum" from the old fixtures is no longer present. District personnel were so pleased with the improvements that they wanted to immediately install similar fixtures at another school to rid that facility of the annoying hum of its current fixtures.

#### Project Details:

	Total
On-Peak Demand Savings	0.95 kW
Annual Energy Savings	15,728 kWh
Total Project Cost	\$12,370
Annual Energy Cost Savings*	\$1,730

\*Assumes that the electricity rate is \$0.11/per kWh

**Notes:** assumes annual usage of 2480 hours

