

**GRAND VALLEY ENGINEERING SOLUTIONS LLC
ELECTRICAL ENGINEERING/SOFTWARE**

2961 CIRCLING HAWK COURT
GRAND JUNCTION, CO 81503

P: (970) 256-0353 F: (970) 245-6319 C: (970) 778-8558



Exterior Lighting:

Successful lighting of exterior spaces demands the same analytical approach used for interior lighting. Lighting levels must be carefully determined to meet the needs of the users of the exterior space, and at the same time provide safety and security. Evolving codes must be considered with regard to glare, light pollution and energy usage.

Over the past 30 years, our company has accumulated the necessary analytical tools and design experience required to successfully light external spaces. We have software which we use to calculate lighting levels at every point on a path or in an open area as well as maximum to minimum lighting level ratios. This software also generates a plot displaying these results, and a schedule of the lighting fixtures used.



Over the past ten years, we have developed an expertise in the specialized field of airport lighting systems design. We have been on engineering teams responsible for the design of nearly 100 airport projects. These projects include numerous runway and taxiway lighting and lighting controls systems, as well as beacons, wind cones, precision approach path indicators (PAPI's), and automated weather observation stations (AWOS').

In the 1980's, we designed the lighting and electrical systems for Western Slope Ford's facility on Highway 6 & 50 in Grand Junction. In the 1990's, we designed the lighting and electrical systems for most of the City Market stores and parking lots on the western slope of Colorado. We recently finished the lighting design of the pedestrian malls at Colorado State University, and are currently working on Ed Bozarth Chevrolet's service building remodel. A more complete list of exterior lighting projects follows.



Recent exterior lighting projects:

- 2011 Ed Bozarth Automobile Dealership Vehicle Service Building Remodel, Grand Junction, CO
- 2010 Monticello Utah airport relocation
- 2009 Sterling Colorado Airport apron lighting
- 2008 Grand Valley Rural Power Operations Center building and site lighting Grand Junction, CO
- 2008 Oral Health Partners Dental office building, façade and site lighting Grand

- Junction, CO
- 2008 Grand Canyon Airport serving the Hualapai Indian Tribe's glass deck tourist attraction
- 2008 Colorado City Arizona Airport AWOS installation
- 2007 Hyundai Automobile Dealership Grand Junction, CO
- 2007 Perry Stokes Colorado Airport PAPI installation
- 2006 Shell Oil Helipad Rio Blanco County, CO
- 2006 First Assembly of God Church building and site lighting Grand Junction, CO
- 2006 Wayne Aspenall Memorial lighting design, Palisade, CO
- 2005 St Mary's Hospital parking lot lighting design Grand Junction, CO
- 2004 Mesa County Fairgrounds, infield lighting, and pedestrian walkway lighting Grand Junction, CO
- 2003 Primary Care Partners Medical office building, building façade and site lighting Grand Junction, CO
- 2002 Helicopter floodlighting – Veterans Memorial Park, Fruita, CO



Exterior lighting projects completed in the 1990's:

- City Market stores and parking lots in Hotchkess CO, New Castle CO, Sterling, CO, Craig CO, Eagle CO, Montrose CO, Breckenridge CO, Gunnison CO, Ridgeway CO, Carbondale, CO, Woodland Park, CO, Orchard Mesa CO, Cortez CO, Fruita CO, Silverthorne CO, Battlement Mesa CO, Rock Springs WY
- Formby Ford Automobile Dealership Silverthorne, CO
- Walker Field runway lighting, Grand Junction, CO
- Canyonlands airport apron lighting Moab, UT
- Walker Field roadway lighting, Grand Junction, CO
- Grand Mesa Youth Services parking lot expansion, Grand Junction, CO
- Mesa State College tennis court lighting, Grand Junction, CO



Exterior lighting completed in the 1980's:

- Western Slope Ford – Grand Junction, CO 55,000 square foot automobile dealership with new car sales building, used car sales building, service and repair building, and parking lots
- City Market stores and parking lots in Durango, Montrose, Glenwood Springs, Steamboat Springs, Breckenridge, Avon, Canon City, Alamosa, El Jebel, Aspen, New Castle, and Moab Utah
- Public Service Operations Center building, parking, and storage yard lighting, Grand Junction, CO

