

# Site Design Projects

## Wildcat Glades Audubon Center

Joplin, MO

### CHALLENGE

The architectural firm, Gastinger Walker Harden, needed an engineer sub-consultant to provide sustainable design features for the Wildcat Glades Audubon Center. The goal was to build a L.E.E.D. certified building.



### SOLUTION

The permeable parking lot utilizes a plastic grid/sand/gravel system and filters latex tire rubber, oil, antifreeze, and other liquids leaked from cars. Water that normally is diverted to storm drains is allowed to seep back into the ground.

Many of the trails are surfaced with reused asphalt millings from area roads and include 6% pulverized, recycled glass.

Timers on parking lot lights save energy and also reduce light pollution, which harms some nocturnal creatures. It is estimated 4-5 million birds in the U.S. are killed annually by colliding with buildings and towers due to light pollution at night. The exterior light fixtures direct light downward.

**Reference:** **Gastinger Walker Harden**  
**Matt Gearheart**  
**(816) 421-8200**

**Wildcat Glades**  
**Tony Robyn**  
**(417) 626-8842**

### FEATURES

The Audubon Center is a U.S. Green Building Council Silver L.E.E.D. Certified facility.

