



Green Infrastructure & Stormwater Management CASE STUDY

Kane County Cougars Events Center

Location: Geneva, IL

Client: Kane County

Design Firm(s): Conservation Design Forum, V3

Landscape architect/Project contact: David Yocca, ASLA

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ASLA Chapter: Illinois

Project Specifications

Project Description: The project retrofit a 1,500-car parking lot for a minor league baseball stadium to a demonstration porous surface – part porous pavers, and overflow parking done in gravel-grass. The rainwater overflow is then directed to a large bioswale to slow, cool, cleanse, and infiltrate water as it heads downstream, ultimately to the Fox River.

Project Type:

Open space - park

A retrofit of an existing property

Design features: Bioretention facility, bioswale, and porous pavers.

This project was designed to meet the following specific requirements or mandates:

County ordinance, developer/client preference - the County wanted a green pavement demonstration application of their new stormwater ordinance.

Impervious area managed: greater than 5 acres

Amount of existing green space/open space conserved or preserved for managing stormwater on site: greater than 5 acres

The regulatory environment and regulator was supportive of the project.

Did the client request that other factors be considered, such as energy savings, usable green space, or property value enhancements? The parking facility serves a large-capacity public events center. Construction was completed in the early spring to accommodate the team schedule.

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: \$1,000,000-\$5,000,000 (Public funding: Regional)

Was a green vs. grey cost analysis performed? Yes, the client looked at both asphalt replacement and the porous alternatives and chose the latter due to lower life-cycle costs and water quality benefits.

Cost impact of conserving green/open space to the overall costs of the site design/development project: Did not affect the overall costs.

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)? Did not influence costs.

Number of jobs created: Data not available.

Job hours devoted to project:

Planning and Design: 400

Construction: Not available

Annual Maintenance: Not available

Performance Measures

Stormwater reduction performance analysis:

Not available

Community & economic benefits that have resulted from the project: This project is a highly visible demonstration of green parking lot strategies.