



Green Infrastructure & Stormwater Management CASE STUDY

Green Learning Station

Location: 527 Oak Street, Cincinnati, OH

Client: Civic Garden Center of Greater Cincinnati

Design Firm(s): Glaserworks Architects, Jacobs / Ryan Associates, Intrinsic, HAWA, THP Limited, NSI, Land Consultants

Landscape architect/Project contact: Meisner + Associates / Land Vision, Gary Meisner, FASLA

Email: meisnerandassociates@fuse.net

ASLA Chapter: Ohio

Project Specifications

Project Description: We converted a 1960's gas station into the Green Learning Center to serve as an educational facility to demonstrate porous pavements, green roofs, solar and wind, and other sustainable technologies to school children and the public. The project was partially funded by the local sewer district.

Project Type:

Institutional/education

A retrofit of an existing property

Design features: Bioretention facility, rain garden, bioswale, green roof, cistern, porous pavers, recycled stormwater runoff for irrigation and grey water use in building.

This project was designed to meet the following specific requirements or mandates: To meet funding criteria, developer/client preference

Impervious area managed: 5,000 sq/ft to 1 acre

Amount of existing green space/open space conserved or preserved for managing stormwater on site: 5,000 sq/ft to 1 acre

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? Energy savings

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: 500,000-\$1,000,000 (Public funding: Local - grant from the Cincinnati Metropolitan Sewer District)

Was a green vs. grey cost analysis performed? No

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

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

Number of jobs created: 0

Job hours devoted to project:

Planning and Design: 2,400

Construction: Not available

Annual Maintenance: Not available

Performance Measures

Stormwater reduction performance analysis:

Site area: 19,541 sq/ft, average annual rainfall: 40.9 inches per year, annual rainfall on site: 498,180 gallons, total annual rainfall retained on site: 498,180 gallons

Community & economic benefits that have resulted from the project: Educational facility for community and enhancement of existing properties.

Project Recognition

Ohio Chapter ASLA Special Recognition Award 2007; AIA COTE Cincinnati Sustainability Award 2007

Additional Information

Links to images:

Project construction is on hold.