



Green Infrastructure & Stormwater Management CASE STUDY

UNM College of Education

Location: University of New Mexico Campus, Albuquerque, NM

Client: University of New Mexico

Design Firm(s): Morrow Reardon Wilkinson Miller, Ltd. Landscape Architects / Gregory T. Hicks and Assoc. Architects / Isaacson Arfman Civil Engineers

Landscape architect/Project contact: Gregory Miller, ASLA

Email: gregmiller@mrwnm.com

ASLA Chapter: New Mexico

Project Specifications

Project Description: The College of Education is a new building on campus. The landscape incorporates a series of stormwater detention basins that capture runoff from the roof. These basins allow stormwater to infiltrate, as well as providing supplemental water for associated plantings. This project is LEED Platinum certified, and is a SITES Pilot Project.

Project Type:

Institutional/education

A retrofit of an existing property

Design features: Rain garden and bioswale.

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

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? Yes, the University mandated a goal of LEED Silver certification. When it was apparent that Platinum was obtainable, they were very supportive of obtaining the additional credits.

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: \$100,000-\$500,000 (Public funding: State)

Was a green vs. grey cost analysis performed? No

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: Not available

Job hours devoted to project:

Planning and Design: 200

Construction: 2,000

Annual Maintenance: 150

Performance Measures

Stormwater reduction performance analysis:

The basins are sized to reduce the developed site discharge to 50% of the historic discharge. The basins also allow solids to settle before discharge.

Community & economic benefits that have resulted from the project: The University has promoted the sustainable aspects of the project, posted informational materials, and using it as a teaching opportunity.

Project Recognition

AGC Best Building award for Best Building for \$5m to \$10m, and Green Technology

Additional Information

Links to images: <http://coe.unm.edu/administration/facilities/coe-building.html>

The Project was a featured article in the Journal of Green Building.