



Green Infrastructure & Stormwater Management CASE STUDY

Dillard University East Campus

Location: 2601 Gentilly Boulevard, New Orleans, LA

Client: Keith McKendall

Design Firm(s): BROWN+DANOS landdesign, inc.

Landscape architect/Project contact: Dana Nunez Brown, ASLA

Email: dbrown@browndanos.com

ASLA Chapter: Louisiana

Project Specifications

Project Description: Dillard University embarked upon an ambitious effort to expand and improve its campus following substantial damage from Hurricane Katrina. BROWN+DANOS landdesign, inc. developed a water management system for the new east campus developments: a new Student Union/Community Clinic building and a new Professional Schools Building. Both buildings have been submitted for LEED Gold Certification, expected to be achieved in no small part due to the sustainable site features and systems. Stormwater from rooftops is either harvested for irrigation and a water fountain feature, or filtered through a stormwater treatment train consisting of gabions, planters, pervious paving, runnels, French drains, bioswales, and a wetland forebay leading into an existing pond. The system is designed to interact and engage students, faculty, and visitors through a legible landscape that functions to improve water quality and reduce runoff and flooding.

Project Type:

Institutional/education

A retrofit of an existing property

Design features: Bioretention facility, rain garden, bioswale, cistern, downspout removal, porous pavers, and curb cuts.

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

Developer/client preference

Impervious area managed: 1 acre to 5 acres

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

The regulatory environment and regulator was indifferent to the project.

Did the client request that other factors be considered, such as energy savings, usable green space, or property value enhancements? LEED Gold

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: \$500,000-\$1,000,000 (Public funding: None)

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: Cost more.

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)? Slightly increased.

Number of jobs created: Not available

Job hours devoted to project:

Planning and Design: 360

Construction: 120

Annual Maintenance: Not available

Performance Measures

Stormwater reduction performance analysis:

The project retained all stormwater runoff in excess of existing runoff (pre construction).

Community & economic benefits that have resulted from the project: Not available

Project Recognition

Received state award