Green Infrastructure & Stormwater Management CASE STUDY

North Idaho College Library

Location: Coeur d'Alene, ID
Client: State of Idaho/North Idaho College
Design Firm(s): Architects West
Landscape architect/Project contact: Landmark Landscape Architects
Email: jonm@architectswest.com
ASLA Chapter: Idaho Montana

Project Specifications

Project Description: Planning and design of a 6-acre site for a new college library.

Project Type:
Institutional/education
Part of a new development

Design features: Bioswale and curb cuts.

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

Impervious area managed: 1 acre to 5 acres

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? Maintenance issues were a prime consideration related to long term soils performance.

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: $10,000-$50,000 (Public funding: State)

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: Not affected all that much as open space preservation was included in the inital cost modelling.

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)? Slightly reduced costs (1-9% savings). This is over what was deemed to be "tradional" costs of the time.

Number of jobs created: Not available

Job hours devoted to project: Not available

Planning and Design: Not available
Construction: Not available
Annual Maintenance: Not available

Performance Measures

Stormwater reduction performance analysis:
100 % retained on site.

Community & economic benefits that have resulted from the project: The site sits over a sole source aquifer. Stormwater for 450-car parking areas and acess drives is treated and released through percolation.