



Green Infrastructure & Stormwater Management CASE STUDY

Woodland Middle School

Location: Coeur d'Alene, ID

Client: Cd'A School District #271

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 site design of a 25-acre site for a middle school.

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: greater than 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 supportive of the project.

Did the client request that other factors be considered, such as energy savings, usable green space, or property value enhancements? Integration of storm facilities in as natural a fashion as possible and swale maintenance as it relates to soil performance and percolation.

Cost & Jobs Analysis

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

Was a green vs. grey cost analysis performed? No, there was no other option available to us.

Cost impact of conserving green/open space to the overall costs of the site design/development project: It had no impact as from the beginning it was an integral part of the planning and design process.

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 in addition to cost norms (at that time).

Number of jobs created: Not available

Job hours devoted to project:

Planning and Design: Not available

Construction: Not available

Annual Maintenance: Not available

Performance Measures

Stormwater reduction performance analysis:

100%

Community & economic benefits that have resulted from the project: Site sits over sole source aquifer. Stormwater for 290-car parking areas and school access drives is treated and returned to base flow.