



Green Infrastructure & Stormwater Management CASE STUDY

Fernan Elementary School

Location: Coeur d'Alene, ID

Client: Cd'A School District #271

Design Firm(s): Architects West

Landscape architect/Project contact: Landmark Landscape Architects

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ASLA Chapter: Idaho-Montana

Project Specifications

Project Description: Planning and design of a 12.5-acre site for an elementary 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: 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? Integration of stormwater facilities into overall site in as natural a fashion as possible.

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. Local ordinance required us to use the approach that was used.

Cost impact of conserving green/open space to the overall costs of the site design/development project: No real impact as it was part of the overall cost modelling from the beginning of the project.

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).

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: Site sits over a sole source aquifer. Stormwater for 150-car parking areas and access drives is treated and released via percolation to return to base flow.

Project Recognition

Council of Education Facility Planners International