



Green Infrastructure & Stormwater Management CASE STUDY

James Chase Middle School

Location: Spokane, WA

Client: Spokane School District #81

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 30-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:

State statute, 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: 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? Intergration of the storm facilities in the site development in as natural fashion as possible.

Cost & Jobs Analysis

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

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: Costs were not influenced all that much as the green space approach was part of the initial cost modelling for 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:

Planning and Design: Not available

Construction: Not available

Annual Maintenance: Not available

Performance Measures**Stormwater reduction performance analysis:**

100% retained on site and released after treatment.

Community & economic benefits that have resulted from the project: Site sits over recharge area for a sole source aquifer. Stormwater for 300-car parking areas and access drives is treated and released to base flow via percolation.