

Green Infrastructure & Stormwater Management CASE STUDY

Amity Elementary School

Location: Boise, ID

Client: Boise School District

Design Firm(s): The Land Group, Inc. Landscape architect/Project contact:

Greg Baer, ASLA, RLA

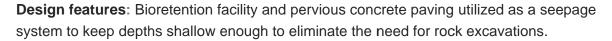
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ASLA Chapter: Idaho/Montana



Project Description: This project was a rehabilitation project to replace damaged concrete drives and sidewalk and expand the existing parking lot.

Project Type:

Institutional/education
Part of a redevelopment project



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: greater than 5 acres

The regulatory environment and regulator was apprehensive about the project.

Did the client request that other factors be considered, such as energy savings, usable green space, or property value enhancements? We brought this to the client as a cost savings measure.



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Cost & Jobs Analysis

Estimated Cost of Stormwater Project: \$100,000-\$500,000 (Public funding: State - school district funds)

Related Information: Cost breakdown is not available.

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: No affect, green spaces were existing to remain as is.

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). Parking lot costs were reduced by utilization of pervious concrete. Rock excavation would have been required in order to install seepage beds and piping system.

Number of jobs created: 15-20

Job hours devoted to project:

Planning and Design: 300

Construction: 520

Annual Maintenance: 0

Performance Measures

Stormwater reduction performance analysis:

The site is designed to retain a 500-year flood event on site.

Community & economic benefits that have resulted from the project: Minimal benefits as the change was small in nature.

Additional Information

Links to images:

https://picasaweb.google.com/thelandgroupinc/AmityElementarySchool?feat=directlink