Green Infrastructure & Stormwater Management
CASE STUDY

Poultney High School Raingarden

Location: Poultney, VT
Client: Village of Poultney
Design Firm(s): Lamoureux & Dickinson Consulting Engineers, Inc.
Landscape architect/Project contact: Gail Henderson-King, ASLA
Email: Gail@LDengineering.com
ASLA Chapter: None

Project Specifications
Project Description: The project will address issues of runoff and flooding around the Poultney High School parking area, and help stop polluted rain water from entering the Poultney River - part of which is designated as an Outstanding Resource Water by the State of Vermont.

Project Type:
High school parking area
A retrofit of an existing property

Design features: Rain garden

This project was designed to meet the following specific requirements or mandates: To meet funding criteria

Impervious area managed: less than 5,000 sq/ft

Amount of existing green space/open space conserved or preserved for managing stormwater on site: less than 5,000 sq/ft

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? No.
**Cost & Jobs Analysis**

**Estimated Cost of Stormwater Project:** $10,000-$50,000 (Public funding: State - funding by a grant from the Vermont Center for Clean & Clear)

**Related Information:** 52 cu. yd. Infiltration Trench = $420  2200 sq. ft. Rain Garden = $17,600  10% Contingency = $1,800  Est. Construction Costs = $5,000  TOTAL COST = $24,820

Was a green vs. grey cost analysis performed?  No

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)?  Significantly reduced costs (10% or greater 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:** Not available