Green Infrastructure & Stormwater Management CASE STUDY

Artist Studio & Residence

Location: Syracuse, NY
Client: Near Westside Initiative
Design Firm(s): Natural Systems Engineering, PLLC
Landscape architect/Project contact: Kyle E. Thomas
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Project Specifications
Project Description: As part of a rehabilitation project, a pervious (porous) concrete driveway and a rain garden were incorporated to manage runoff from the driveway and building, respectively.

Project Type:
Mixed use
A retrofit of an existing property

Design features: rain garden and pervious (porous) concrete.

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.

Cost & Jobs Analysis
Estimated Cost of Stormwater Project: $10,000-$50,000 (Public funding: Federal, local)

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)? Did not influence costs.

Number of jobs created: 2
Job hours devoted to project:
  Planning and Design: 20
  Construction: 10
  Annual Maintenance: 4

Performance Measures
Stormwater reduction performance analysis:
Designed to manage events up to the 1-year recurrence, 24-hour storm.

Additional Information
Links to images: www.NaturalSystemsEngineering.com or look up "Natural Systems Engineering" on Facebook.