Green Infrastructure & Stormwater Management CASE STUDY

Bridgeport Main Street Improvements

Location: Woodside Avenue to Jewett Street, Main Street, Bridgeport, CT
Client: City of Bridgeport
Design Firm(s): PRE/view Landscape Architects
Landscape architect/Project contact: Aris W. Stalis, ASLA
Email: ArisStalis@sbcglobal.net
ASLA Chapter: Connecticut

Project Specifications

Project Description: Streetscape enhancements includes roadway reconfiguration (roadway diet), reduction of driveway entrances, new sidewalks, street trees and ornamental plantings, ornamental street lights, and LID strategies with rain gardens and pervious pavers.

Project Type:
Transportation corridor/streetscape
A retrofit of an existing property

Design features: Rain garden and porous pavers.

This project was designed to meet the following specific requirements or mandates:
State statute, local ordinance

Impervious area managed: 5,000 sq/ft to 1 acre

Amount of existing green space/open space conserved or preserved for managing stormwater on site: less than 5,000 sq/ft - the conversion of hardscape creating green spaces.

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? Improvements helped with traffic safety, and created urban spaces more conducive to economic investment by private property owners.

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: $1,000,000-$5,000,000 (Public funding: State)

Related Information: $2.8 million

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: creating green spaces added cost to project. Separate figures not available.

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)? Slightly increased. Adding green infrastructure added slightly to cost of project, but could be considered negligible in reality.

Number of jobs created: for construction, created 12 jobs (estimated)

Job hours devoted to project:

Planning and Design: Not available
Construction: Not available
Annual Maintenance: Not available

Performance Measures

Stormwater reduction performance analysis:
Data not available.

Community & economic benefits that have resulted from the project: since project has been completed, we have anectdotally observed improved economic activity in corridor.