Green Infrastructure & Stormwater Management CASE STUDY

Phelps Lane Park Redevelopment Project

Location: Babylon, NY
Client: Town of Babylon Department of Public Works
Design Firm(s): B. Thayer Associates
Landscape architect/Project contact: Curtis F. Velsor, ASLA, RLA, CLA, LLA
Email: cvelsor@bthayerassociates.com
ASLA Chapter: New York

Project Specifications

Project Description: The Town of Babylon contracted B. Thayer to develop a sustainable landscape that would provide a proper walkway connecting the park's recreation facilities. Our landscape architects worked closely with the Town to develop a plan that would be functional for park users and also alleviate persistent flooding problems. The design plan includes several large bioswales, permeable pathways, a seating area with permeable pavers, and a planting plan using primarily native plants.

Project Type:
Open space - park
A retrofit of an existing property

Design features: Bioswale, porous pavers, curb cuts, and drywell.

This project was designed to meet the following specific requirements or mandates:
Developer/client preference

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: 5,000 sq/ft to 1 acre

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? The Town of Babylon requested that the primary focus of the design approach be the active use of the space by the community.

Paramount to making this goal a reality was implementing sustainable strategies to reduce the persistent flooding that impeded public access.

Cost & Jobs Analysis

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

Related Information: Construction Cost Estimate; $275,000

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: Not available

Job hours devoted to project:

Planning and Design: 158
Construction: Not available
Annual Maintenance: Not available

Performance Measures

Stormwater reduction performance analysis:
Site was designed to retain a two-inch storm event.

Community & economic benefits that have resulted from the project: Upon completion, this project will significantly enhance an existing community resource by addressing routine flooding and standing water between recreational facilities. By reducing flooding through the use of visibly sustainable techniques, the project provides a community demonstration of sustainability while enhancing public access to recreation.

Additional Information

Links to images:
https://picasaweb.google.com/lh/photo/yPrlkdX1jD1F1UZRYeYLYM5Iql5wNjPsTp4P-as4Log?feat=directlink
https://picasaweb.google.com/lh/photo/vYgMYZIuOlGZ_ZbSgInuIM5Iql5wNjPsTp4P-as4Log?feat=directlink