



Green Infrastructure & Stormwater Management CASE STUDY

Greenstreets - Seagirt Blvd between Beach 20th & Beach 19th, Queens

Location: Seagirt Blvd between Beach 20th & Beach 19th, Queens, New York City, NY

Client: NYC Parks & Recreation

Design Firm(s): NYC Parks & Recreation

Landscape architect/Project contact: Adriana Jacykewycz

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ASLA Chapter: New York



Project Specifications

Project Description: The Greenstreet at Seagirt Blvd between Beach 20th & Beach 19th, Queens, funded through the American Recovery and Reinvestment Act, was constructed in the spring of 2010 over existing striped asphalt. This project contains a series of planting beds with curb cuts and trench inlets. One of the planting beds is constructed as a bumpout, where stormwater cascades over a sequence of check dams. The profile consists of 2' of soil above native sand. Due to proximity to the ocean, the site is planted with vegetation especially tolerant of salt spray, in addition to drought and inundation tolerances. The site captures stormwater from 21,130 sq/ft of impervious catchment area with 4,225 sq/ft of new planting area, all of which previously drained directly into the harbor.

Project Type:

Transportation corridor/streetscape

A retrofit of an existing property

Design features: Bioretention facility, curb cuts, trench Inlets with Diamond Plate Cover, and check dams.

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

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: Not applicable

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: \$1,000,000 - \$5,000,000 (Public funding: Federal - ARRA Stimulus Funds)



Was a green vs. grey cost analysis performed?
Not available

Cost impact of conserving green/open space to the overall costs of the site design/development project: Site was located on existing impervious roadbed.

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)? Not applicable – there was no existing green space

Number of jobs created: 0.93

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:

Disconnected 25,355 sq/ft of impervious surface from sewers.

Community & economic benefits that have resulted from the project: Greenstreets not only beautify the urban landscape, but also calm busy traffic, clean the air, cool the city, sequester carbon, increase pedestrian safety, provide environment for wildlife, mitigate flooding, and capture stormwater for irrigation.

Additional Information

Links to images: http://www.nycgovparks.org/sub_your_park/trees_greenstreets.html

http://www.nycgovparks.org/sub_your_park/trees_greenstreets/images/NYC_Greenstreets-Green_Infrastructure_for_Stormwater_Management.pdf