



# Green Infrastructure & Stormwater Management CASE STUDY

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## Greenstreets - Pelham Pkwy & Stillwell Ave, Bronx

**Location:** Pelham Pkwy & Stillwell Ave,  
Bronx, New York City, NY

**Client:** NYC Parks & Recreation

**Design Firm(s):** NYC Parks & Recreation

**Landscape architect/Project contact:**

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**ASLA Chapter:** New York



### Project Specifications

**Project Description:** The Greenstreet at Pelham Pkwy & Stillwell Ave, Bronx, was constructed in the spring of 2008 to alleviate existing drainage problems and to accompany plantings in a nearby median. Stormwater is managed from 9,140 sq/ft of impervious surface, including a heavily trafficked intersection on Pelham Pkwy. Runoff sheets over a gravel diaphragm shoulder flush with the roadbed, and spreads into a bioswale depression, where it infiltrates into 2' of soil and 1' of ¾-inch crushed blue stone above native soil. The site is planted with Taxodium, Quercus, Prunus, Echinacea, Liatris, Iris, Hemerocallis, Rudbeckia, Panicum, and Liriope.

### Project Type:

Transportation corridor/streetscape

A retrofit of an existing property

**Design features:** Bioretention facility, bioswale, gravel reservoir, flush curb, and gravel diaphragm.

**This project was designed to meet the following specific requirements or mandates:** Not applicable

**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: Local - NYC Parks Dept - Capital Budget)

**Was a green vs. grey cost analysis performed?** No

**Number of jobs created:** 0.57

**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 9,140 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.html)

[http://www.nycgovparks.org/sub\\_your\\_park/trees\\_greenstreets/images/NYC\\_Greenstreets-Green\\_Infrastructure\\_for\\_Stormwater\\_Management.pdf](http://www.nycgovparks.org/sub_your_park/trees_greenstreets/images/NYC_Greenstreets-Green_Infrastructure_for_Stormwater_Management.pdf)