



Green Infrastructure & Stormwater Management CASE STUDY

Liberty Lands

Location: 3rd St. & Wildey St., Philadelphia, PA

Client: Northern Liberties Neighborhood Association

Design Firm(s): Pennsylvania Horticultural Society, Onion Flats

Landscape architect/Project contact: Glen Abrams

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Project Specifications

Project Description: The Greening Greenfield project consists of stormwater management and landscape improvements, including rain gardens, pervious pavers, orchards, and porous rubber safety play surface which divert rainwater from asphalt to recharge the rain garden instead of draining into the combined sewer system. The project partners included parents, teachers, students, alumni and school administrators, with the help of local design experts, the school district and the Philadelphia Water Department.

Project Type:

Recreation Center / Open Space

A retrofit of an existing property

Design features: Rain garden, cistern.

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

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: Not applicable.

The regulatory environment and regulator was supportive of the project.

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: \$100,000-\$500,000 (Public funding: Federal, State, and Local)

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: Did not influence costs.

Number of jobs created: Not available

Job hours devoted to project:

Planning and Design:

Construction:

Annual Maintenance: 14 hours

Performance Measures

Stormwater reduction performance analysis; Philadelphia designs their systems to manage the first inch of every storm from the drainage area. The metric used is acre-inches. This project manages .63 acre-inches.

Additional Information

Links to images:

http://www.phillywatersheds.org/img/ASLA/LibertyLands_creditPWD.jpg



Liberty Lands, Philadelphia, PA

Photo Credit: Philadelphia Water Department