



# Green Infrastructure & Stormwater Management CASE STUDY

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## Columbus Square

**Location:** 12 St. between Reed and Wharton, Philadelphia, PA

**Client:** Philadelphia Department of Water

**Design Firm(s):** CDM

**Landscape architect/Project contact:** Jessica Brooks

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Photo Credit: Philadelphia Water Department

## Project Specifications

**Project Description:** Columbus Square Park is undergoing numerous improvements led by the Philadelphia Capital Program Office. PWD designed and implemented a series of street side stormwater planters that capture runoff from the contributing street and sidewalk areas. A rain garden will also be constructed at the park entrance to manage runoff from the adjacent streets and sidewalk.

**Project Type:**

Park and Public Green Street

A retrofit of an existing property

**Design features:** Rain garden, Flow-through planters.

**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:** N/A It was a project in an existing park.

**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?** Yes, use of existing green space, in the form of parks and floodplain areas was considered.

## 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

**Number of jobs created:** Not available

**Job hours devoted to project:**

Planning and Design:

Construction:

Annual Maintenance: 55 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 .74 acre-inches.

## Additional Information

Links to images:

[http://www.phillywatersheds.org/img/ASLA/ColumbusSquare\\_Credit\\_PWD.JPG](http://www.phillywatersheds.org/img/ASLA/ColumbusSquare_Credit_PWD.JPG)