Green Infrastructure & Stormwater Management CASE STUDY

Pat Hurley Hillside Development

Location: Albuquerque, NM
Client: City of Albuquerque
Design Firm(s): Morrow Reardon Wilkinson Miller, Ltd. Landscape Architects / Bohannan Huston Civil Engineers
Landscape architect/Project contact: Gregory Miller, ASLA
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ASLA Chapter: New Mexico

Project Specifications

Project Description: Pat Hurley Park Hillside Development includes the construction of a pedestrian path to link existing upper and lower park spaces, the reconstruction of two entry plazas in the lower park, extensive soil stabilization and storm water management measures, slope revegetation, and integral art installations. This park serves as an example of comprehensive planning for sustainability, pioneering construction methods, monitoring of long term success, and integration of physical and social program elements.

Project Type:
Open space - park
Part of a redevelopment project

Design features: Rain garden, bioswale.

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: 1 acre to 5 acres

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: State, 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: Slope stabilization by redirection of stormwater into small detention / infiltration basins was approximately 30% of the overall construction costs, equaling approximately $750,000.00 of the $2.4m total budget.

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)? Slightly increased. Management of stormwater within the open space slightly increased the cost, largely due to the challenging construction conditions on the hillside. The system of swales and basins has become a focal visual feature of the development.

Number of jobs created: 10

Job hours devoted to project:

Planning and Design: 500
Construction: 3,000
Annual Maintenance: 100

Performance Measures

Stormwater reduction performance analysis:

The project is estimated to manage up to the 100-year storm volumes, on site.

Community & economic benefits that have resulted from the project: The entire project is connects the two communities at the bottom and top of the hillside. It's a striking visual presence and even serves as a destination for fitness enthusiasts.

Project Recognition

SITES Pilot Project

Additional Information

Links to images: http://www.360cities.net/image/pat-hurley-overlook#104.75,7.94,70.0