



Green Infrastructure & Stormwater Management CASE STUDY

Lemont Police Station

Location: Lemont, IL

Client: Village of Lemont

Design Firm(s): Wight & Company

Landscape architect/Project contact: Jay Womack, ASLA, LEED AP

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ASLA Chapter: Illinois

Project Specifications

Project Description: The Village of Lemont needed a new police department building so they purchased a peice of property to build it upon. Based on their needs, the entire property would be used to support the building and program items so a shared detention facility was built on an adjacent property to meet their requirments. In order to make the detention more enviromentally friendly, a series of BMPs were installed to help reduce runoff and improve the quality of runoff entering the detention facility.

Project Type:

Police department

Part of a new development

Design features: Bioretention facility, rain garden, bioswale, and porous pavers.

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: less than 5,000 sq/ft

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: \$100,000-\$500,000 (Public funding: 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: Open space conservation was not an issue for this project.

Instead, water quality and quantity was an issue for a shared detention facility that the police department was a part of.

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)?

Did not influence costs.

Number of jobs created: Not available

Job hours devoted to project: Not available

Planning and Design: Not available

Construction: Not available

Annual Maintenance: Not available

Performance Measures

Community & economic benefits that have resulted from the project: This project received its building permit in record time due to the green infrastructure items implemented.

Additional Information

Links to images: <http://www.wightco.com/about/news.aspx?contentid=132>

This project was a success due to the absolute collaboration between the landscape architect and the civil engineer.