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 piece 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 requirements. In order to make the detention more environmentally 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


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