Green Infrastructure & Stormwater Management
CASE STUDY

Sullivan Home

Location: Los Altos, CA
Client: Mr. and Mrs. Sullivan
Design Firm(s): Earthcraft landscape design, Inc, Kikuchi Associates
Landscape architect/Project contact: Bobby Markowitz
Email: info@earthcraftdesign.com
ASLA Chapter: Northern California

Project Specifications

Project Description: Client wants to go net zero water; we are using underground cisterns, capturing all the rainwater on site - approximately 100,000 gallons. Using the collected roof and surface water for irrigation (also using graywater with Epic System) and other purposes with the ultimate goal of domestic use.

Project Type:
Single family residential
A retrofit of an existing property

Design features: Green roof, cistern, and porous pavers.

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: 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? Energy savings.
Cost & Jobs Analysis
Estimated Cost of Stormwater Project: $100,000-$500,000 (Public funding: None)

Was a green vs. grey cost analysis performed? No

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

Number of jobs created: 1

Job hours devoted to project:
- Planning and Design: 150
- Construction: 1,500
- Annual Maintenance: 50

Performance Measures
Stormwater reduction performance analysis:
95% stormwater retained on site

Community & economic benefits that have resulted from the project: Saving potable water for city of Los Altos; stormwater retention (and use!), less pumping costs, less infrastructure for city,

Project Recognition
State of California

Additional Information
Links to images: http://www.homepreservation.com/LosAltosNetZero