Green Infrastructure & Stormwater Management
CASE STUDY

Fountaingrove Meadows

Location: 3589 Round Barn Blvd, Santa Rosa, CA
Client: Billa Enterprises
Design Firm(s): Carlile Macy
Landscape architect/Project contact: Bill Rinehart, ASLA
Email: BRinehart@CarlileMacy.com
ASLA Chapter: Northern California

Project Specifications
Project Description: Condominiums utilizing various landscape based BMP’s to treat stormwater prior to discharge off-site

Project Type:
Multifamily residential
Part of a new development

Design features: Biretention facility, rain garden, bioswale, curb cuts, structural soil based biofiltration, low-flow diversion structures, and biofiltration soil mix.

This project was designed to meet the following specific requirements or mandates:
State statute, local ordinance

Impervious area managed: 1 acre to 5 acres

Amount of existing green space/open space conserved or preserved for managing stormwater on site: 5,000 sq/ft to 1 acre

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? Aesthetics, maintenance, public awareness

Cost & Jobs Analysis
Estimated Cost of Stormwater Project: $50,000-$100,000 (Public funding: None)
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: No affect, preserved open space within setbacks, not buildable.

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: 2 (temporary construction contractors)

Job hours devoted to project:
- Planning and Design: 160
- Construction: 160
- Annual Maintenance: 40
- Other: permitting - 40

Performance Measures

Stormwater reduction performance analysis:
First 1" of rainfall detained, treatment capacity + 75% of 2-year rainfall event (estimated).

Community & economic benefits that have resulted from the project: First of its type in the community. Serves as pilot project, beta test and raises public awareness.