



Green Infrastructure & Stormwater Management CASE STUDY

Mickleson Residence

Location: Berkeley, CA

Client: D. Mickleson

Design Firm(s): k.b.kolman landscape design

Landscape architect/Project contact: Kathleen B. Kolman, ASLA

Email: kbkolman@comcast.net

ASLA Chapter: Northern California

Project Specifications

Project Description: Design and installation of brick patio, bioswale, infiltration basins, custom concrete stepping stones, and native fine fescue berm in backyard of three story multifamily residence. Objective: to unify the space aesthetically, provide drainage on site, and insure pedestrian access to former garage, which is currently used for storage and workshop. The residents rely heavily on their bicycles, stored in the garage, for local transportation. The workshop is an additional rental income for the home owners.

Project Type:

Multifamily residential

A retrofit of an existing property

Design features: Bioswale and native fine fescue berm and infiltration basins.

This project was designed to meet the following specific requirements or mandates:

Local ordinance, developer/client preference

Impervious area managed: less than 5,000 sq/ft

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

Did the client request that other factors be considered, such as energy savings, usable green space, or property value enhancements? Yes, clean fill removal and reuse; locally and native planting and organic soil amendment.

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: <\$10,000 (Public funding: None)

Was a green vs. grey cost analysis performed? Yes, the client was committed to green practices.

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: 3

Job hours devoted to project:

Planning and Design: 8

Construction: 45

Annual Maintenance: Not available

Performance Measures

Stormwater reduction performance analysis:

95-98% effective

Community & economic benefits that have resulted from the project: Access to the workshop/storage space for the tenants facilitates rental income. Access to play equipment in yard for neighborhood children enhances yard for all.