



Green Infrastructure & Stormwater Management CASE STUDY

Dixieanne Avenue Green Street

Location: Sacramento, CA

Client: City of Sacramento

Design Firm(s): MIG, Inc.

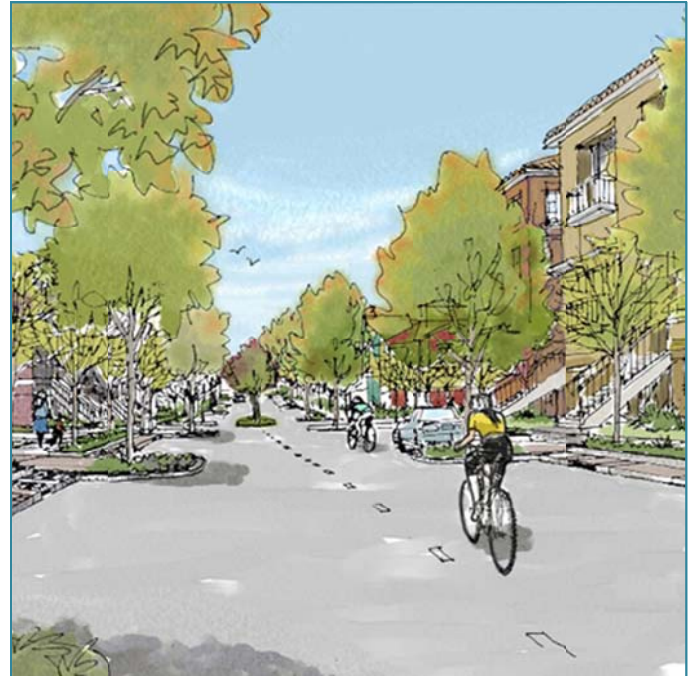
Landscape architect/Project contact: Larry
Wight, ASLA

Email: larryw@migcom.com

ASLA Chapter: Northern California

Project Specifications

Project Description: MIG led a team of landscape architects and civil engineers to design and create construction documents for the first green street in Sacramento for a five block stretch of Dixieanne Avenue. A key element of the design is a new storm drainage system beneath a strip of trees, shrubs and grasses, allowing for most stormwater to be captured, reducing peak flows and cleansing runoff. Items related to streetscape design include planting and irrigation, utilizing a mix of native and locally adapted drought tolerant plants and highly efficient smart irrigation. Construction documents include details for special areas including the Swanston Station Plaza, Winner Circle Park, bulb-outs, flow-through stormwater planters, and vegetated swales.



Project Type:

Transportation corridor/streetscape

Part of a redevelopment project

Design features: Bioretention facility, bioswale, and curb cuts.

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

County ordinance

Impervious area managed: 1 acre to 5 acres

Amount of existing green space/open space conserved or preserved for managing stormwater on site: Not applicable

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? Smart Et based irrigation was used to minimize water use.

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: \$500,000-\$1,000,000 (Public funding: State, regional, 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: Not applicable

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: Unknown

Job hours devoted to project:

Planning and Design: Not available

Construction: Not available

Annual Maintenance: Not available

Performance Measures

Stormwater reduction performance analysis:

Data is not available for peak flow reduction and cleansing of runoff.

Community & economic benefits that have resulted from the project: Greatly enhanced community: increased property values and residential development, increased safety and walkability, improved community life, ownership, facade improvement of adjacent properties, habitat and biodiversity increased.

Project Recognition

American Public Works Association (APWA)'s 2009 Transportation Project of the Year Award;
2010 Green GOOD DESIGN Award

Additional Information

Links to images: www.migcom.com , <http://www.migcom.com/projects/view/221>