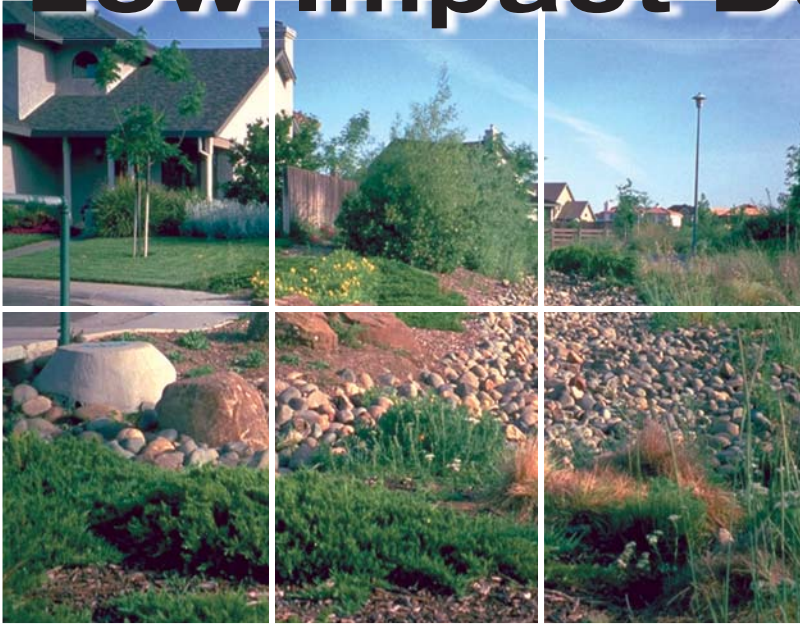


Low Impact Development



MEDICAL OFFICES
 LEAF TEXTURE, FLOWERS, GRASSES, BOULDERS
 - WIND IN TREES & GRASSES, GRAVEL, BIRDS
 - FLOWERS, LEAVES
 - 4 SEASONS OF COLOR & TEXTURE, BIRDS & INSECTS
 SOCIAL SPACES - TABLES, BENCHES, BOCCIE,
 CONNECTED TO LARGER GREENBELT SYS

A Win - Win For Everyone

- Lower Life-Cycle Cost
 - Higher Property Values
 - Community Buy-In
 - Meets Water Quality Standards
 - Fewer Infrastructure Demands
 - EPA Best Management Practices
 - LEED Credits
- BOCCIE COURT
 COOPERATIVE SENIOR HOUSING

What is Low Impact Development (LID)?

LID is a holistic strategy that can simultaneously lower site infrastructure costs, protect the environment and increase a project's marketability.

With expertise in LID techniques for both civil engineering and landscape architecture, Cunningham Engineering offers the unique advantage of in-house coordination, planning and design of LID systems that meet today's water quality standards, engineering requirements and landscape aesthetic expectations. At Cunningham we know it's not easy being **GREEN** but we can help...

Contact us today to schedule an "LID Info Session" for your team at info@cecwest.com!



Pervious Surfaces



Bio-Swales



Rain Gardens

Davis

2940 Spafford St., Suite 200
 Davis, CA 95618
 (530) 758-2026



cecwest.com

Sacramento

2120 20th St., Suite Three
 Sacramento, CA 95818
 (916) 455-2026

Low Impact Development



“Ecologically based functional design.”



Project Planning • Civil Engineering • Landscape Architecture

Introduction

Making a Difference with Low Impact Development (LID)

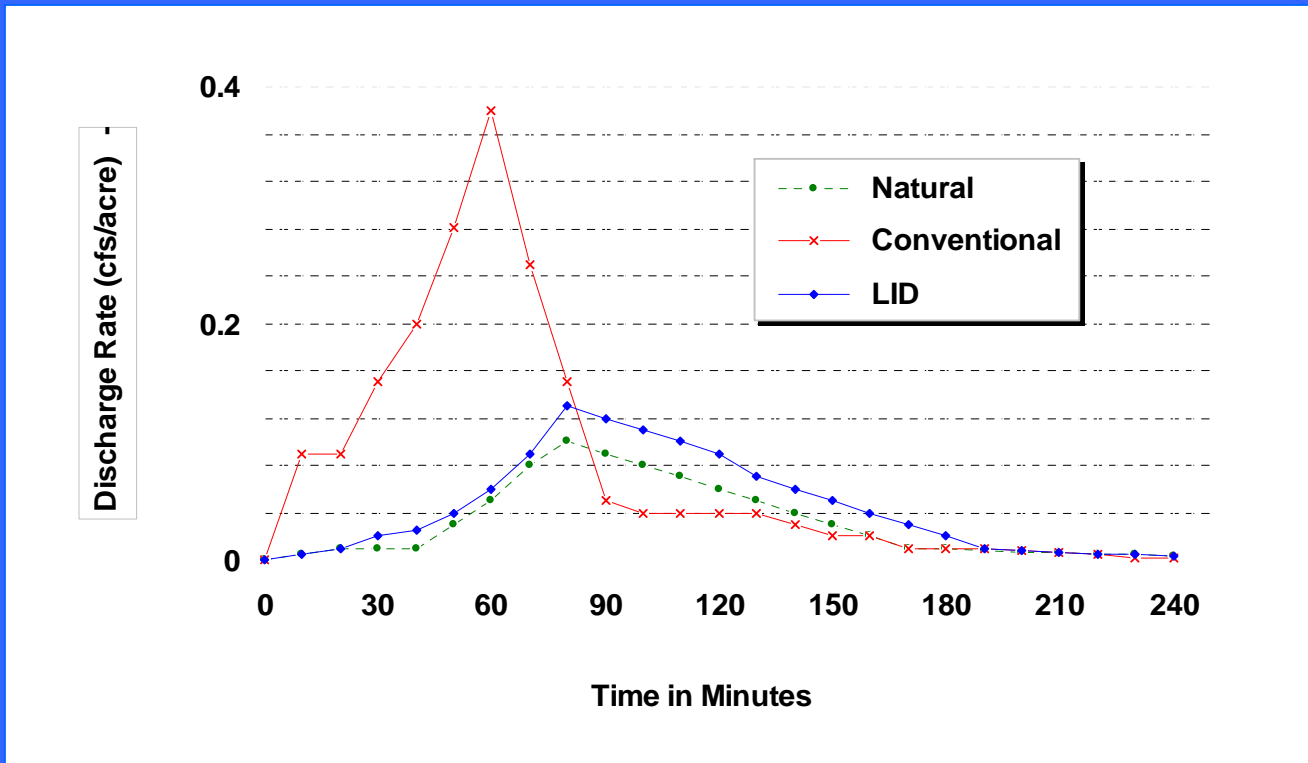
- Collaboration
- The philosophy
- Our experience



The Philosophy

Peak Run-off Flows

Post Development Discharge Comparison



Our Experience

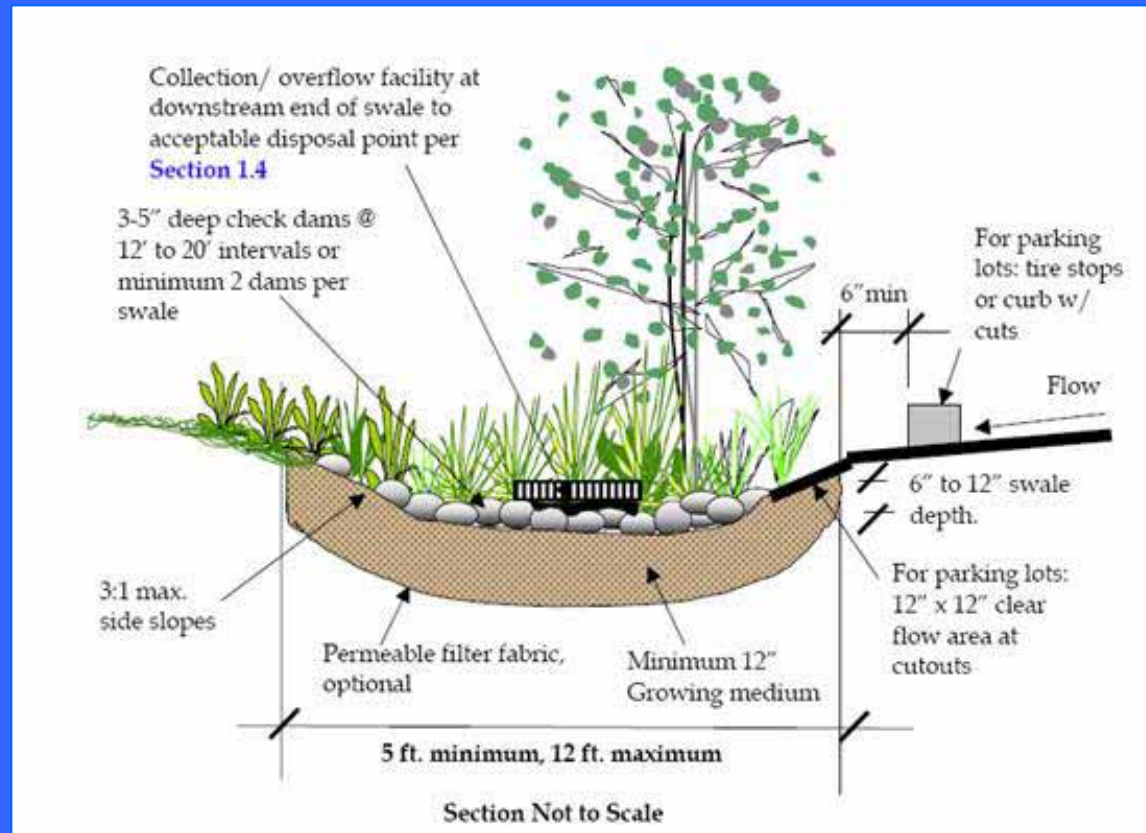
LID Techniques

- Bio-Retention
- Vegetated & Dry Swales
- Bio-Filtration Systems
- Pervious Surfaces



Vegetated & Dry Swales

Bio-Swale Cross Section



Vegetated & Dry Swales

Vegetated Swale Parking Lots



What is Pervious Concrete

A mixture of:

- Cement
- Water (0.27 w/c)
- Coarse Aggregates (Rock)
- Admixtures
- 15-25% Void Space
- Place over aggregate base

