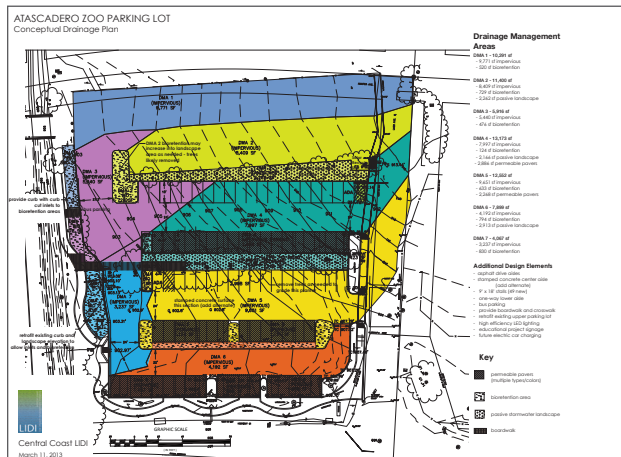


# What's going on at the LIDI

central coast low impact development initiative

## Project Support

LIDI continues to provide nuts-and-bolts LID resources to the Central Coast. Our recent work illustrates the technical aspects related to design, construction and maintenance of LID projects. We work with a broad range of LID stakeholders through outreach and partnership efforts to achieve progress toward water quality and community sustainability objectives.



Conceptual LID design showing drainage management areas for permeable paving and bioretention facilities.

## Atascadero Zoo Green Parking Lot

LIDI provides project-specific LID support such as the Atascadero Zoo LID Parking Lot Project. LIDI created the LID concept design and supported the project team through final design. The project, which will be completed in 2013, includes permeable pavement and bioretention facilities. LIDI will continue to work with the City to create education signage for the project as well as conduct student-led efforts to quantify the project's environmental benefits.

### Project Partners:

California Strategic Growth Council

City of Atascadero

North Coast Engineering

Casey Patterson Landscape Architect

## Design Support

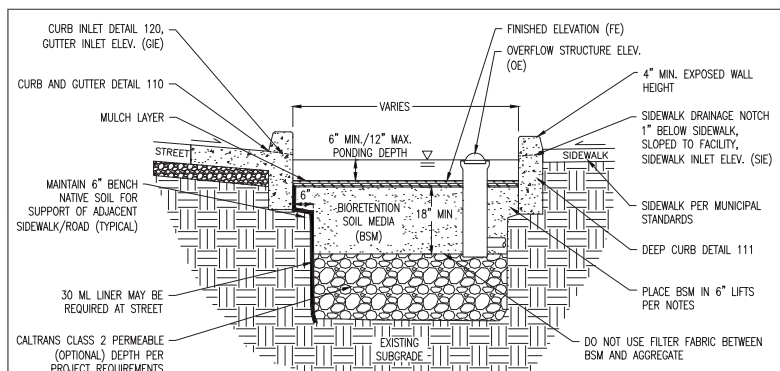
Technically detailed and up-to-date design guidance is needed to create successful LID projects. LIDI continues to work with regional and national experts to develop and update LID engineering specifications which are then incorporated into municipal codes and project designs. LIDI is also working to improve regionally appropriate plant and tree lists for LID design including options for low-maintenance and drought-friendly design.



Seattle Public Utilities

## Technical Support

LIDI is working with geotechnical experts and LID stakeholders to provide guidance on cost-effective soil tests to support LID design. Current testing methods, such as the PIT test pictured above, can be very expensive and may not be technically feasible on small, constrained sites.



LIDI standard detail for planter box style bioretention

# What's going on at the LIDI

central coast low impact development initiative

## LIDI Partnerships and Outreach

Creating strong partnerships and looking for opportunities to reach out to the LID community is a fundamental LIDI objective. By building regional LID knowledge and collaborating on projects, we collectively move forward to achieve our environmental and community goals. The next two pages provide a sample of LIDI partnerships and outreach efforts.



## Cal Poly Arboretum Bioretention Demonstration Project

In collaboration with the Department of Horticulture, a series of bioretention cells were constructed at the campus arboretum. The site will showcase different regionally-appropriate LID plant palettes and designs. Constructed by the students, the project truly demonstrates the Cal Poly "Learn by Doing" approach.



## Education

Educating the public about LID fosters the acceptance and even expectation of environmentally and community friendly design. Educational materials created by LIDI, such as the draft signage for the Paso Robles' 21st Complete/Green Street (above) is intended to improve public awareness and understanding.

## Grant Support

LIDI provides grant writing support for regional cities, counties, and other and other groups helping to implement LID in our region. LIDI works with partners to leverage the effort from a single project to the broader regional LID community.



LIDI Director, Darla Inglis, providing a LID design Lecture to Cal Poly City and Regional Planning students.



# What's going on at the LIDI

central coast low impact development initiative

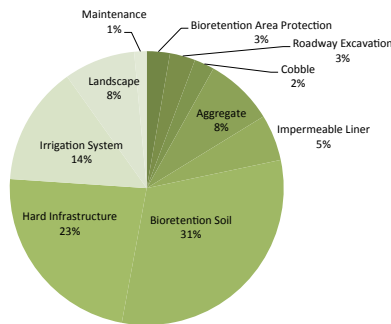
## LIDI Partnerships and Outreach (cont.)

**Growing the next generation** - LIDI is committed to working with regional colleges and universities to inspire and increase the awareness and technical skills related to sustainable stormwater management. Successful LID implementation includes individuals from a broad array of related disciplines. University lectures and student projects supported by LIDI reflect this diversity.



**Kevin Reel, Cal Poly Civil Engineering**

Cost Breakdown for Average 21st Street Bioretention Basin



How much does LID cost? This is a common question for those considering the different LID design options for a project. Kevin developed an initial cost-benefit analysis for the bioretention facilities that are part of the City of Paso Robles' 21st Complete/Green Street project. Kevin's work provides a starting point for the documentation of regional LID costs, which will support evaluation of design options.

**Violetta Pristel, CSU Monterey Bay Coastal and Watershed Science and Policy, Division of Science and Environmental Policy**



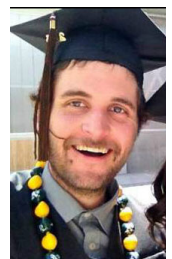
Project developers and municipalities faced with post-construction stormwater control requirements will need a mechanism for off-site compliance when on-site project compliance is not feasible. Violetta focused on the policy, legal, and technical feasibility issues of off-site compliance in her Master's thesis entitled "An Alternative Compliance Framework for Stormwater Management in the Central Coast Region."

Her report provides a starting point from which regional municipalities can develop their AC programs. The project was funded by LIDI and in partnership with the City of Watsonville. Fred Watson, CSUMB, served as Violetta's advisor.



**Matt Sayles, Cal Poly City and Regional Planning**

As part of preparation for a Proposition 84 Stormwater Grant proposal, Matt identified a LID retrofit project for a disadvantaged community in the Central Coast. By evaluating existing data, meeting with City and County staff, and obtaining data through field visits, Matt developed the concept design for a LID street retrofit project for the City of Gonzales.



**Randi Gunder, Cal Poly Agriculture and Environmental Plant Science**

With her background in graphic arts and focus on sustainable horticulture, LIDI intern, Randi Gunder assists with education and outreach by graphically communicating technical information to a broad stakeholder audience. Randi is also working on interpretive signage for the 21st Street Complete Street and Atascadero Zoo Green Parking Lot projects.

