

Date: September 21, 2011
To: LID Working Group
From: Evan Canfield
Subject: Meeting Summary - September 19, 2011 LID Working Group Meeting

Background:

We had an LID Working Group Meeting on September 19, 2011 at RFCD. The list of attendees is attached. The meeting summary follows the meeting agenda format.

Summary:

1.) Homework – Review of LID Case Study Sites

The following people presented the following projects:

Eric – Highland Vista: Worked with Laura, project costs about ~\$75K to create park that provides water harvesting and stormwater benefits.

Evan – Review of Field Trip Sites from 8-29-11

Camino Campestre – Irene Ogata will know about this project, try to get costs from her

Broadmoor and San Gabriel Median Parks – Gary Witwer says will be difficult estimating costs, because a lot of volunteer labor, grant funding from multiple sources and different levels of design.

Sonoran Co-housing – Grant knows this area, but may be unable to separate out water harvesting costs from overall project costs.

John – Roger Rd. This site will have significant passive water harvesting. John showed the site layout and believes he can follow up with projected level of effort and costs pending Pima County's approval.

Ann – QT at Valencia and Camino De La Tierra (in Pima County): Ann shows a number of shots from this site and notes that the actual detention basin may look better than landscaped areas. James notes that the QT at Rosemont and Speedway has been through the COT Water Harvesting Ordinance process, but doesn't look much better than these sites.

Marie – Willowridge Commons HOA: Marie notes that this is a detention basin that serves as a park and harvests considerable amounts of on-site and off-site runoff.

Ellen – Looked at LID along River Rd and Craycroft Rd: She notes that these roadways have depressed planting areas and native seed mixes with the following features:

- No curbing - roads drain to median and to roadsides - roadsides and medians are water harvesting areas
- Water harvesting basins built at large trees
- Less manicured, more natural appearance means less maintenance - energy savings as well as water savings
- Water directed from adjacent street to water harvesting/drainage area

Maintenance is an issue. Currently PCDOT has concerns about un-maintained ROW. Also when landscapers maintain, they sometimes remove native plants instead of non-natives.

Katie presents the following retrofit projects that are underway:

Northwest Neighborhood/Bronx Wash

Barrio San Antonio/Lost Barrio

Both of these projects funded by PC Neighborhood reinvestment grants and have been funded for about \$500K each.

Laura – has projects but will send digital versions for discussion next time.

2.) Selection of Focus Area Groups

- a. Manuals and Policy Guidelines
- b. Outreach (includes website)
- c. Applied Research and Case Studies (construction of demonstration sites and data collection from existing and new sites).

We discussed breaking out into these focus groups to divide and conquer the topic of LID, but the consensus was that a 'Catalog of Case Studies' would be a valuable contribution and we should continue to focus on this area.

We will want to determine 'success criteria.' Eric suggested success criteria by discipline (e.g. landscape architects should determine success criteria from a landscape architecture perspective, drainage engineers determine success criteria for flood control etc).

Marie presented a list of Vision/Mission (attached)

3.) Working Group Structure

- a. PAG Resolution – EPAC December

Evan said that Mead is in the process of getting the LID Working Group on the EPAC committee at PAG. We would get EPAC to support the concept of LID as important in our community.

- b. Google Docs Page

Evan said that he would set up a web page that would allow information to be accessed easier than it is now.

- c. Meeting Schedule

We'll meet on October 17 at 2:30 at RFCD.

4.) Permeable Paving Webcast (11:00 on 22nd) and other Webcasts

RFCD is hosting this webinar. The webinar from September 14 should be available for download soon.

5.) Review of Action Items

Everyone will continue to gather information on LID projects in Tucson in order to create a reference on the implementation of LID projects in Tucson. In particular we are interested in:

- a. Project purpose
- b. Who was involved?
- c. What was accomplished?
- d. Specifics of area modified, features installed etc.
- e. What design documents are available?
- f. What did it cost?
- g. From your discipline's perspective what success criteria would you use to evaluate the project, and how well does it work?

The following people will bring data on the following projects:

Katie – Lost Barrio and Northwest neighborhood
Grant – U of A stormwater projects
John – ROMP
Evan (from Irene) – Camino Campestre at Reid Park
Laura – Projects implemented by Wheat Schaarf.
Evan – QT water harvesting landscape implementation
Ellen – Implementation of Craycroft and River Rd Landscaping
Eric – Effectiveness and implementation of Highland Vista project.

Other Action Items:

James – Will pass along a GI/LID cost-effectiveness study.
Evan – will set up a web page for the LID Working Group to share information.
Evan and Mead – will prepare draft EPAC statement for next LID working group meeting.

**Draft Vision, Mission, and Goals
for
Arid LID Working Group**

Vision	Optimize the use of rainwater to build urban ecosystem resilience and create a sustainable water resource
Mission	Create a regional interdisciplinary framework [for the management of stormwater] [to build and maintain LID/GI to improve Quality of Life, reduce flooding, and maintain quality of stormwater as if it were rainwater]
Goals	Write an LID/GI policy recognizing the high value of rainwater
	Write an Arid Southwest LID Manual with principles of site design, design specs, regulatory & policy requirements for 4 scales (site, neighborhood, community, region-catchment)
	Assemble a catalogue of LID/GI projects in (Tucson, SW, other) with an evaluation of their effectiveness
	Develop criteria used to evaluate LID/GI effectiveness, including costs, flood control capacity, and water quality improvement
	List the gaps, hurdles, barriers, unknowns, and partially knowns to using LID/GI
	Develop a set of arid southwest BMPs for Construction Industry, Landscape Professionals, & Architectural.Engineering firms
	Develop an LID/GI educational program for [<i>specific audience</i>].
	Green public spaces.
	Integrate LID/GI into land use and watershed planning as well as transportation plans.

