

## Project 10-150 Greening of Antelope Valley Park System

### Project Legend:

Lincoln City Parks & Recreation's overall project objective is to feature a variety of green techniques in the Antelope Valley park system to reduce long-term operational costs, lower energy consumption, and improve storm water management while educating the public about these techniques and how they can use them in a residential setting.

**Proposal Context:** Single Community

**Duration:** April 1, 2010 – September 30, 2012

**Cost:** \$171,060 Awarded from NET. Matching funds from a list of public-private partners that total in excess of \$2.5 million

**NET Funding Objective:** Habitat

### Process:

- Addition of green elements in Union Plaza that a) feature sustainable green techniques to reduce long term operational costs, lower energy consumption, and improve storm water management while b) educating the public about these techniques and how they can be used in residential settings.
- The primary greening elements include
  - Use of Silva cells when planting street trees in an urban environment.
  - Pervious pavers used in conjunction with street trees and Silva cells.
  - Photovoltaic cells on the Jane Snyder Trails Center building.
  - Interpretive signage for public education regarding these green applications
- 26 trees have been planted into a total of 1,347 Silva Cells to extend encompassed bioretention and tree rooting volume under the hard surfaced pedestrian plaza space.
  - Each Silva Cell holds approximately 10 cubic feet of soil.
  - Using bioretention soil with 20% storm water holding capacity, this system will store an estimated 2,694 cubic feet of storm water runoff, enough to treat runoff from the first one inch of rain from 32,328 square feet of paved surfaces draining into the Silva Cells
- Sustainable elements found within the Plaza include water conserving nozzles, LED lights, permeable pavers, drought tolerant plants, bioretention areas, and photovoltaic cells

**Domains:** Union Plaza is a public space and everyone that has visited the area since the completion of this grant has experienced the benefits first hand. For this reason this project falls under the Socio-Cultural domain. The improvements that have been made are all energy efficient and will save the city a lot of money. This project also falls within the Economic domain.

**Transferability:** The sustainable elements that have been implemented throughout the plaza could be replicated at any scale to fit similar urban environments lacking in sustainable features.

