

LIZARD ROCK DESIGNS, LLC

Design and Permitting Services

Project Manager: Garth Bowers

Cornerstone has provided design and permitting services for development of a new entrance facilities campus at the Los Reales Landfill, in Tucson, Arizona. This campus includes scalehouse facilities, a public drop-off/transfer facility, recycling facilities, an administrative building, a Materials Recovery Facility (MRF), and associated roadways and infrastructure. The landfill entry reconfiguration project is designed to increase safety on the site and working face, separate commercial from self haulers, encourage recycling and reuse of materials, and encourage development of “cottage industries” to divert waste from the landfill. The project will be LEED Certified at a Silver level.

As a part of this effort, Lizard Rock Designs (LRD) led a series of design workshops with city staff, commercial haulers, and self haulers to study traffic flow at the entry and onto the working face of the landfill itself. More than 48 options were studied, and consensus was reached on one that allowed commercial haulers to proceed directly to the landfill, while keeping self haulers below at a convenience center and recycling facility.

All traffic flows through one set of scales, to minimize staff requirements and allow staff to manage traffic flow on the site. Cornerstone, along with its civil and traffic consultants, developed a traffic flow that encourages self haulers to recycle to reduce weight before proceeding over the scales. Flexibility has been built into the design, allowing the convenience center to be used for large recycling loads if necessary.

The project will also include educational exhibits designed to make the public aware of the impact that recycling, methane harvesting, and conservation can have on the environment. Studies have shown that the impact possible through such measures may exceed other efforts at conservation undertaken by the city.

Key Project Activities:

- *Traffic routing / flow planning*
- *Conceptual facility layout*
- *Roadway / parking design*
- *Hydrology report / surface water design*
- *Grading and drainage plans*
- *Water and sewer design*
- *Vehicle and pedestrian circulation design*
- *Project phasing plans*
- *Development Plan submittal*
- *LEED planning / documentation*



For more information call (877) 294-9070 or email info@cornerstoneeg.com.