



COCHISE COUNTY COMMUNITY DEVELOPMENT

"Public Programs...Personal Service"

The Cochise County Melody Lane Complex was constructed in 2004, with minimal landscape, very poor drainage and no plan for rainwater harvesting. This is causing repeated building flooding, erosion, sedimentation on the parking lot and sidewalks and wasting the opportunity to put the roof runoff to beneficial use.

We are now proposing to utilize the CD Department engineering and landscape architectural experience and knowledge to install both active and passive rainwater harvesting equipment and techniques to create an educational demonstration garden. Utilizing various sizes and shapes of rainwater tanks, artificial turf, native plants, and a series of berms, swales, and basins, the complex will be turned into a school room for children, county employees, and for the general public. It will also resolve flooding issues, reduce repair costs, cut irrigation costs, save water and reduce erosion.

We are requesting \$25,000 from the Cochise Water Project to help fund this effort. We propose to match tank numbers and sizes to the roof catchment area. Initial analysis indicates purchase and installation of 6 to 8 tanks with an estimated combined capacity of 12,000 gallons. The roof capacity confirms that the substantial runoff over storage capacity can be used to demonstrate passive collection and irrigation in conjunction with control of flooding. We will also demonstrate the use of the newest artificial turf, and purchase and install native plants per the landscape and drainage plan. Necessary concrete for tank pads, gutter, connections, overflow piping and some new irrigation drip line will be purchased also. The County is providing as match, all civil engineering, survey and drafting, landscape planning, construction oversight, inmate labor and supervision. We will also design and install a self-guided tour through signage that will explain the design process and goals of the project and how each element contributes to the whole. Estimated value of County match such as design, construction, labor and incidentals is \$15,000.

Survey and initial analysis is complete. Upon grant award, final design will be completed and purchase and construction can begin.

Respectfully submitted,

Karen C. Riggs, PE, LS
Director, Highway and Floodplain Division