

QUICK FACTS

UNDERWOOD FAMILY SONORAN LANDSCAPE LABORATORY

- Project Size—approximately 1.2 acres of reclaimed former parking lot
- Completed in 2007
- Design by Ten Eyck Landscape Architects, Phoenix/Austin.
- CALA addition by Jones Studio, Phoenix
- Entire project is donated through gifts-n-kind from donors. Site is named in honor of the Richard and Robert Underwood Family.
- Represents 5 habitats of the Sonoran Desert
 - Upper Sonoran
 - Desert Wetland
 - Desert Riparian
 - Mesquite Bosque
 - Desert Canyon
- Has 5 Guiding Principles
 - Water Sustainability
 - Reduction of the Urban Heat Island Effect
 - Reduction of Urban Flooding
 - Reconnection with Nature
 - Creation of an Interpretive Oasis
- Overall reduction of potable water use is 83% during the first 3-5 years striving for 100% thereafter.
- Annual water savings—280,000 gallons—approximately 12 average sized swimming pools
- Internal cistern holds 11,600 gallons of roof runoff, heating/air conditioning condensate (HVAC)
- HVAC condensate yields approximately 95,000 gallons of usable irrigation water supplement. In July/August it is up to 45 gallons/hour more.
- Annual rainwater harvesting is ~85,000 gallons—1.7" rain fills cistern
- 18,000 gallon Wetland/Pond holds several endangered desert fish and amphibian species
- Daily irrigation control is evapo-transpiration regulated from weather data sent from the UofA weather station.
- 4 'microbasins' (small drainage detention pools) capture approximately 10,000 gallons of water.
- Lower patio detains approximately 10,000 gallons of flood water for 12-18 hours.
- Desert Riparian channels are lined with reused brick and concrete from building demolition.
- 55' x 200' Trellis shades south wall of building



Arizona Chapter, ASLA
 Prios Sandblasting and Engraving
 landscapers
 Lori Jones Woods & Lillian K. Jones
 Ten Eyck Landscape Architects
 FX Luminaire

Mountain States Wholesale Nursery
 Rainbird Irrigation
 Ewing Irrigation
 Arid Zone Trees
 Western Tree Company
 Kalamazoo Materials

This extraordinary project is named in honor of the Richard and Robert Underwood Family. It could not have been realized without their generosity and vision and that of the following donors:



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