**Rainwater Collection Tank**
A 620 gal tank designed specifically for rainwater and made of food-grade, light-filtering polyethylene. Sited according to space and rainwater supply.

**Basins and Trenches**
Dirt was removed to lower the grade and capture water. Leftover soil was amended with composted mulch. Water from the central basin overflows into the west basin or perforated pipe and leach rock trench to provide moisture to the plum tree’s root zone.

**Irrigation Valves**
Fed by a pressure pump to deliver rainwater through a drip irrigation system to new plants. After plants have become established, no irrigation will be needed.

**Plant Selection**
Native and well-adapted plants with low water and maintenance requirements are used. In 2 to 3 years, plants will require no irrigation, except in case of drought.

**Irrigation Controller**
An existing irrigation controller is used to control irrigation of new tree and shrub plantings. It also controls watering to the existing turf. Each planting zone is separately metered so the Town may collect accurate water-use data.

**SPECIFICATIONS**

**AVG. ANNUAL PRECIPITATION: 11”**

**ACTIVE SYSTEM:** 2000 s.f. portion of Asphalt shingle roof; Rain harvesting rainhead, 620 gal. Bushman slimline poly tank; 3/4 hp. Booster pump, in ground-vault metered and connected to irrigation system.

**PASSIVE SYSTEM:** Adjacent parking lot and rain tank overflow and roof run-off flows into regraded rocked, planted sediment basins. Multiple infiltration systems were used to self irrigate the landscape: leach rock trenches, bio-swale, level graded landscape basin.

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**Contributors**

Owner: Town of Chino Valley
Designer and Project Manager: T. Barnabas Kane & Associates
Landscape Architect: Landscape and Irrigation Contractor: Nature West Landscaping Services
Installer: Skywater, Nature West

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**Mulch and Moisture**
Mulch improves the moisture-holding ability of soil, boosting plant health. We also added organic fertilizer, soil inoculants and 1,000 earthworms to ensure long-term fertility.

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**Designer:**
T. Barnabas Kane & Associates

**Installers:**
Skywater, Nature West