State Route 86

KITT PEAK PRE-CAST ARCH WILDLIFE UNDERPASS

• Underpass dimensions: 12’ height × 32’ width × 90’ length; with 15 separate arches, and head and wing walls. Replaces a concrete box culvert that was unsuitable for wildlife use.

• Seven arches were installed on November 25, 2013, as part of an ongoing widening project. The other 8 arches were installed on February 27, 2014 after backfilling and paving.

• Installation was done by Meadow Valley Construction with assistance from Contech Engineered Solutions and ADOT Tucson Construction.

• The underpass was funded by the Pima County Regional Transportation Authority as part of a grant submitted by the Tohono O’odham Nation.

• The underpass lies within the Kitt Peak Wildlife Linkage, one of the highest priority linkages identified in the 2006 statewide Arizona’s Wildlife Linkage Assessment.
Original location of underpass with traffic detour construction just underway at the left for first half of underpass
Completed traffic detour and excavation at right
Foundation footers poured
Foundations formed
Foundations poured
November 25, 2013 installation of the first 7 arches commences
Pad poured over underpass
Roadway paved over the overpass, excavation of detour commences to install second half.
Demolition of existing concrete box culvert
Openness Ratio comparison of new underpass to existing concrete box culvert if extended to 90’
Foundations prepared for second half of underpass installation
February 27, 2014 installation of 8 arches commences