Segment 1 Plan and Profile

PCDOT Sunset Road: Silverbell to River Road

Profile – Longitudinal Section

Interim Segment

Segment 1

Segment 2

Santa Cruz River

Silverbell Road

The Loop Future Multi-use Path

The Loop Future Connections to Sunset Road

The Loop Two Stage Crossing

The "Pit"

Interstate 10 Bridge

Interstate 10

Sunset Road

Interim Segment

Santa Cruz River Bridge

Sunset Road

Silverbell Road
Segment 2 Plan and Profile

PCDOT Sunset Road: Silverbell to River Road

Plan

Profile – Longitudinal Section

PCDOT Sunset Road: Silverbell to River Road
2018/2025 Traffic Data

PCDOT Sunset Road: Silverbell to River Road

Legend
- Traffic Signal
- Stop Sign

8,750/10,750 vpd (LOS C/LOSC)

8,750/10,750 2018/2025 Traffic Volumes
vpd Vehicles per day
LOS C/LOS C 2018/2025 Level of Service C
2040 Traffic Data

PCDOT Sunset Road: Silverbell to River Road
**Visual Assessment Process**

1. **Define the project setting and existing landscape features that contribute to the character of the site.**

   - zoning and land use
   - man-made structures
   - vegetation
   - landforms
   - hydrological features

2. **Identify user groups, determine key viewpoints, and assess project visibility.**

   - User Groups:
     - A: Residential, N.W. of Silverbell Rd
     - B: Silverbell Rd Makers
     - C: 7-11 Makers
     - D: Urban Loop/Cyclists & Pedestrians
     - E: Area Trail Pedestrians

   - Viewpoint Location & Direction:
     - includes views oriented and from the site.

3. **Assess potential visual impact of project and propose mitigation strategies.**

   - Conceptual Rendering of Proposed Bridge Over Santa Cruz River (looking toward I-10 from Silverbell Rd)

   - Proposed Sunset Road Cross Section

   - Typical Mitigation Considerations:
     - planting density and location
     - plant species selection
     - texture and color of materials
     - placement of screening elements
     - incorporation of public art

   - The ultimate goal is to retain or enhance the visual quality of the project area.

PCDOT Sunset Road: Silverbell to River Road
Environmental Assessment and Mitigation Report (EAMR)

1. EAMR Purpose
   To document results of the technical studies to identify unavoidable adverse impacts of the recommended alternative on the physical, social, and economic environment of the project vicinity. Also, to recommend measures to mitigate adverse effects.

2. Data Collection/Research Reports
   - Cultural Resources
   - Biological Resources
   - Water Resources
   - Visual Resources
   - Socio-Economic Resources
   - Air Quality
   - Hazardous Materials
   - Noise
   - Consistency with Planning

PCDOT Sunset Road: Silverbell to River Road
Cultural Resources

1 Cultural Survey Report

Multiple historic and prehistoric sites in vicinity of Sunset Road project dating back to Middle to Late Archaic Period (3000 BC - 1AD), the Hohokam Period (300 AD - 1450AD), and early settlement of Tucson Basin.

2 Site Testing
Exploratory test trenching occurred in early 2014 to determine potential for sites to occur within the project footprint.

3 Data Recovery
Based on project plans, Pima County office of Sustainability and Conservation, Cultural Resources, and Historic Preservation Division will contract to have data recovery collect and evaluate cultural resources impacted by the project (Late 2014/Early 2015).

PCDOT Sunset Road: Silverbell to River Road
Congress passed the Endangered Species Act (ESA) in 1973. The purpose of the Act was to protect and recover imperiled species and the ecosystems upon which they depend. The ESA is administered by U.S. Fish and Wildlife Service (USFWS).

As required by the ESA, proposed projects that may impact the natural environment must evaluate the potential presence of Federally listed Threatened and Endangered plant and animal species.

Endangered Species
Species is in danger of extinction throughout all or a significant portion of its range.

Threatened Species
Species is likely to become endangered within the foreseeable future.

Candidate Species
Threatened/Endangered status is under review.

Proposed Species
Threatened/Endangered status is determined but species is not yet listed.

The Sonoran Desert Conservation Plan provides a comprehensive approach to protecting 55 sensitive plant and animal species across Pima County.

The BE is a project-level document designed to evaluate the presence of, and potential impacts to, Federal and State listed plants and animals.

This document summarizes the findings from field surveys, and also provides mitigation measures to help reduce impacts to listed species.

As required by the ESA, proposed projects that may impact the natural environment must evaluate the potential presence of Federally listed Threatened and Endangered plant and animal species.

The Sonoran Desert Conservation Plan provides a comprehensive approach to protecting 55 sensitive plant and animal species across Pima County.

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Water Resources

Clean Water Act

The Clean Water Act (CWA) was passed by Congress in 1972. It establishes the framework for regulating discharges of pollutants into the Waters of the United States, as well as regulating quality standards for surface waters.

Key Sections of the CWA include:

- **Section 401** – Creates a water quality certification tool for states and tribes.
- **Section 402** – Authorizes Arizona Pollutant Discharge Elimination System (AZPDES) permit requirements for stormwater discharges.
- **Section 404** – Establishes a program to regulate the discharge of dredged and fill material into Waters of the United States, including wetlands.

Regulatory Agencies

Water resources within the project area are regulated by the U.S. Army Corps of Engineers (USACE), Arizona Dept. of Environmental Quality (ADEQ), and Pima County Regional Flood Control District (PCRFCD).

Protecting Waters of the United States

A PJD is a document that defines the aerial extent of USACE jurisdiction by identifying wetlands and Waters of the U.S. This document was approved for the project on May 6, 2014.

PCDOT Sunset Road: Silverbell to River Road

- The NWP 14 with a Pre-construction Notice (PCN) is required for projects impacting more than 0.1 but less than 0.5 acres of Waters of the U.S., or any impacts to wetlands.
- The PCN is submitted to the USACE District Engineer for review.
Preliminary Approach

Public Art

PRELIMINARY ARTISTIC APPROACH
CREATE MONUMENTAL LANDMARKS AND ICONIC ARTWORK WHICH SPEAKS ABOUT THE HISTORY OF THE SANTA CRUZ RIVER AND THAT MAY INTEGRATE WELL WITHIN THE STRUCTURE OF THE BRIDGE DESIGNED BY STRUCTURAL GRACE.

ARTWORK SHOULD
REPRESENT THE RICH HISTORY AND CULTURE OF THE SANTA CRUZ RIVER
REPRESENT THE UNIQUE HISTORY OF THE SURROUNDING COMMUNITIES
BE ATTRACTIVE TO RESIDENTS AND VISITORS
BE VISIBLE FROM A DISTANCE AND ON A PEDESTRIAN LEVEL.

HISTORY AND COMMUNITY PAST, PRESENT AND FUTURE

DEsert BLOOM REPRESENTS LUSH VEGETATION OF PAST AND FUTURE GROWTH

RAILING: WATER REPRESENTS ONCE FLOWING SANTA CRUZ RIVER

PEOPLE REPRESENT PAST, PRESENT AND FUTURE COMMUNITIES

GROVE REPRESENTS COTTONWOOD TREES THAT ONCE LINED RIVER

BIRD AND SNAKE REPRESENT WILDLIFE THAT ONCE WAS IN ABUNDANCE ALONG RIVER

LOW MAINTENANCE
USE LOW MAINTENANCE MATERIALS SUCH AS BRUSHED STEEL OR ALUMINUM AND FORCED COLORED CONCRETE

DESSERT BLOOM METAL SCULPTURE

UNIQUE HISTORY AND CULTURE
AT EACH END OF BRIDGE THERE MAY BE HISTORICAL AND CULTURAL INFORMATION
FRONT AND BACK BRONZE PLAQUE WITH HISTORY OF RIVER

BRIDGE OVER SANTA CRUZ RIVER

SUNSET ROAD PROPOSAL

DANIEL M. DIAZ / PAULA C. VALENCIA

PCDOT Sunset Road: Silverbell to River Road
Public Art

Contextual Response

**HISTORY AND COMMUNITY: PAST, PRESENT AND FUTURE**

1. Desert Bloom represents lush vegetation of past and future growth.
2. Railing: Water represents once flowing Santa Cruz River.
3. People represent past, present and future communities.
4. Grove represents cottonwood trees that once lined river.
5. Bird and snake represent wildlife that once was in abundance along river.

**UNIQUE HISTORY AND CULTURE**

At each end of bridge there may be historical and cultural information. Front and back bronze plaque with history of River.

PCDOT Sunset Road: Silverbell to River Road
Public Art

Elements and Materials

DEŠERT BLOOM METAL SCULPTURE

METAL BRIDGE RAILING
METAL RAILING POLE
EMBOSSÉD COLORED CONCRETE

BRUSHED METAL STEEL OR ALUMINUM

5' X 5' EMBOSSÉD COLORED CONCRETE

EMBOSSÉD COLORED CONCRETE

SANTA CRUZ RIVER BRIDGE

LOW MAINTENANCE MATERIALS

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