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## ENVIRONMENTAL SCREENING REPORT

### Kolb Road: Sabino Canyon Road to Sunrise Drive PCDOT Project Number 4KSCSD

#### Screening Process Description

- A Project Kickoff Meeting was held on September 8, 2016. Attendees included representatives from Pima County and project consultants. The project was described briefly (Figure 1–Project location and Figure 2–Project vicinity), the project-related roles and responsibilities were generally outlined, and known issues (i.e., slope design and intersection improvements) were discussed.
- Project Team Meetings have been held monthly since September 2016 and are scheduled to be ongoing through completion of the Environmental Assessment and Mitigation Report (EAMR) process.
- An Environmental Coordination Meeting was held on December 1, 2016. Attendees included representatives from the Arizona Department of Transportation (ADOT), Pima County, the U.S. Army Corps of Engineers (USACE), and consultants from Psomas and EcoPlan Associates, Inc. (EcoPlan). Meeting discussions focused on environmental topics and related technical issues, required environmental documents and submittal sequence, and the approval process. The discussion also described the National Environmental Policy Act (NEPA) environmental clearance process, which is required with the use of federal construction funding. The NEPA process will be administered through ADOT and the Federal Highway Administration. The meeting agenda and minutes are attached.

#### Identification of Technical Studies Completed During the Screening Process

- EcoPlan reviewed the U.S. Fish and Wildlife Service (USFWS) and Arizona Game and Fish Department (AGFD) databases to check for the presence of protected, listed, threatened, and endangered species in the project area, and site visits will be conducted.
- A Preliminary Initial Site Assessment (PISA) will be conducted in spring or summer 2017.
- A draft Preliminary Jurisdictional Delineation (PJD) of Waters of the United States (Waters) is currently being prepared and will be submitted to Pima County for review in January 2017. If impact analysis results indicate that permanent impacts to Waters will be less than 0.1 acre, the project will qualify for a nonnotifying Nationwide Permit 14 (Linear Transportation Projects).
- A 2001 cultural resources survey indicated that there are no archaeological sites within the project limits. During preparation of the EAMR, research will determine whether any adjacent single-family residences are historical (i.e., close to 50 years or older).
- A noise study will be conducted to document potential impacts related to shifting the roadway closer to some noise receptors (residences). Though the planned roadway improvements do not



add capacity or alter the speed limit, the issue of noise was raised as a concern by area residents during previous coordination efforts.

- The need for project-level air quality analysis is to be determined. The project is in regional conformity for air quality, as documented in the Pima Association of Governments 2017–2021 Transportation Improvement Plan. Projects that do not add capacity or substantively realign a roadway are typically exempt from the need to prepare a localized hot-spot analysis for carbon monoxide or particulate matter (PM<sub>10</sub>/PM<sub>2.5</sub>). Pima County will coordinate with ADOT to determine whether project-level air quality analysis is required.

## Environmental Issues Identified During the Screening Process

### *Biology*

- The AGFD Arizona Environmental Online Review Tool (Project ID: HGIS-04426) and the USFWS Information for Planning and Conservation (IPaC) database (Consultation Code: 02EAAZ00-2017-SLI-0054) were accessed for the project on November 2, 2016, to identify listed threatened or endangered species. With the project's proximity to Coronado National Forest, perennial water in Sabino Canyon, and the presence of diverse habitat north of the project area, eight federally listed threatened or endangered species were identified in proximity to the project: California least tern, Mexican spotted owl, yellow-billed cuckoo, Gila chub, jaguar, lesser long-nosed bat, Northern Mexican gartersnake, and Sonoyta mud turtle. There is no designated critical habitat for the California least tern, and because there are no seacoasts or beaches in the project area, the California least tern is not expected to be impacted. Critical habitat has been designated for Mexican spotted owl, yellow-billed cuckoo, Gila chub, jaguar, and Northern Mexican gartersnake; however, the project area is outside critical habitat for these species. Because there are no forested areas in the project area, Mexican spotted owls are not expected to be impacted. Because there are no woodland areas in the project area, yellow-billed cuckoos and jaguars are not expected to be impacted. Because there are no perennial wetlands, stock tanks, or other wet areas known to be in the project area, Gila chubs and Sonoyta mud turtles are not expected to be impacted. There is no designated critical habitat for the lesser long-nosed bat, and because there are no caves or mines in the project area, this species is not expected to be impacted. The lesser long-nosed bat is proposed for delisting and currently under a public comment period until the end of March 2017. The resolution of the delisting proposal is not known at this time. Because there are no riparian areas with perennial waters in the project area, Northern Mexican gartersnakes are not expected to be impacted.
- The USFWS and U.S. Forest Service sensitive species lists identified 11 species within 2 miles of the project: Pima Indian mallow (*Abutilon parishii*), Sabino Canyon dancer (*Argia sabino*), giant spotted whiptail (*Aspidoscelis stictogramma*), Mexican long-tongued bat (*Choeronycteris mexicana*), cactus ferruginous pygmy-owl (*Glaucidium brasilianum cactorum*), Sonoran Desert tortoise (*Gopherus morafkai*), Western red bat (*Lasiurus blossevillii*), Western yellow bat (*Lasiurus xanthinus*), Lemmon cloak fern (*Notholaena lemmonii*), big free-tailed bat



(*Nyctinomops macrotis*), and Tumamoc globeberry (*Tumamoca macdougallii*). The Pima Indian mallow is usually found on steep, rocky slopes and canyons and has been identified in Ventana Canyon approximately 1.5 miles from the project area; however, the project area does not include canyons, so this species is not likely to be affected. The Sabino Canyon dancer is found in pools or areas with streams in canyons; perennial streams are not found in the project area, so this species will not be impacted. The giant spotted whiptail inhabits riparian areas near streams dominated by sycamore and cottonwoods; however, the project area does not support this type of riparian habitat, so this species will likely not be affected. The Mexican long-tongued bat typically roosts in canyons, caves, or mines; however, these features are not found in the project area, so this species is not expected to be impacted. The cactus ferruginous pygmy-owl typically roosts in saguaros in Sonoran riparian deciduous woodland; however, this type of riparian habitat is not found in the project area, so this species is not likely to be impacted. The Sonoran Desert tortoise is often found in steep, rocky slopes and bajadas. Though Sonoran Desert tortoises are not likely to occur in the project area, a Biological Evaluation (BE) will determine whether this species will be impacted. If there is potential for the species to be present, the AGFD *Guidelines for Handling Sonoran Desert Tortoises Encountered on Development Projects* will be included as a mitigation measure. Western red bats are most often found in cottonwood- and sycamore-dominated riparian habitat; however, the project area does not include this type of riparian habitat, so this species is not likely to be affected. The Western yellow bat is often associated with riparian habitat or palm trees; however, the project area does not include this type of riparian habitat or palm trees, so this species is not likely to be affected. The Lemmon cloak fern is usually found in igneous rock or limestone cliff crevices; however, the project area does not include cliffs, so this species will not be affected. The big free-tailed bat roosts in cliffs or caves; however, the project area does not include these features, so this species will not be affected. The Tumamoc globeberry is usually found in Sonoran Desert plains; however, this project area does not include plains, so this species is not expected to be impacted. For details about USFWS and U.S. Forest Service special status species, see the AGFD Arizona Environmental Online Review Tool Report (attached). The BE will determine whether any species listed in the report are present in the project area. The BE will provide an evaluation for the potential presence of, or habitat for, federally listed species and other special status species in the project area. This project falls within the scope and permit area covered by the Pima County Section 10 Habitat Conservation Plan approved by the USFWS in 2016. The Habitat Conservation Plan covers nine species listed as threatened and endangered under the federal Endangered Species Act and the 44 species covered in the Pima County Multi-Species Conservation Plan.

- Vegetation removal may impact migratory bird species. To limit that potential, the project team will recommend vegetation removal outside the breeding season (March 1–August 31) to avoid impacts to migratory birds.
- Protected native plants, including cacti, desert trees, and shrubs, are present within the project limits. A native plant inventory will be completed in conjunction with the development of revegetation and landscaping plans. Subsequent landscaping and mitigation plans will be



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developed in accordance with Pima County Environmentally Sensitive Roadway (ESR) guidelines. Landscaping will use native species. Regulated Riparian Habitat (RRH). These habitat types are present in the project area in multiple locations and will be impacted by project construction. Mitigation measures will be developed and presented in the landscaping plans if impacts are equal to or greater than one-third of an acre.

- A Visual Assessment of the project impacts consistent with the ESR procedures will be prepared because the project segment of Kolb Road is designated as scenic in the Pima County Major Streets Plan.

#### *Hazardous Materials*

- A PISA will be completed in spring or summer 2017. Given the generally residential and retail commercial adjacent land uses, hazardous materials are not expected to be a concern for project development.

#### *Clean Water Act–Waters of the United States*

- Multiple dry, ephemeral washes, small drainages, and roadside drainage features cross the project area. A PJD is underway to evaluate potential impacts to Waters and the appropriate type of Section 401/404 permitting that will be required. Preliminary results indicate the presence of eight washes that could be considered Waters, and the project team expects the project to qualify for a nonnotifying Nationwide Permit 14. A determination of permit level, based on acreage of permanent impacts to Waters, is expected in summer 2017. Preliminary design indicates permanent impacts will be less than 0.1 acre for each drainage crossing.
- The project is expected to disturb one or more acres of surface area and, therefore, will require an Arizona Pollutant Discharge Elimination System Permit from the Arizona Department of Environmental Quality (ADEQ). The permit requires the preparation of a Storm Water Pollution Prevention Plan, a Notice of Intent, and a Notice of Termination. The project area is not in the vicinity of any designated Unique or Impaired Water, as defined by the ADEQ.

#### *Cultural*

- No archaeological sites were discovered during a cultural resources Class I inventory and Class III survey conducted for the project area in 2001 by Desert Archaeology, Inc. This report will be reviewed and the results updated to incorporate a discussion of historical buildings. A number of the single-family houses adjacent to Kolb Road may approach 50 years old.

#### *Suggestions on Addressing Issues Through Design Modifications and/or Alternative Investigation*

- Impacts to Sonoran Desert tortoises should be minimized through implementation of the AGFD *Guidelines for Handling Sonoran Desert Tortoises Encountered on Development Projects*.



- Impacts to migratory birds should be minimized by limiting vegetation removal to outside the breeding season (March 1–August 31).
- Impacts to native plants should be minimized through the development and implementation of landscaping and mitigation plans developed in accordance with Pima County ESR guidelines and through landscaping with native species only.
- Impacts to RRH should be mitigated through the development of a Riparian Habitat Mitigation Plan and an associated Floodplain Use Permit submitted to the Pima County Regional Flood Control District.
- Project drainage improvements should be designed to minimize construction within washes and therefore minimize impacts to potential Waters. Permanent impacts to any single Water in excess of 0.1 acre will require a Nationwide Permit 14 with a Preconstruction Notification to the USACE.
- If required by ADOT, a localized hot-spot air quality analysis will be prepared.
- The noise analysis will determine whether predicted roadway noise levels at the receptors meet or exceed the Federal Highway Administration Noise Abatement Criteria (67 A-weighted decibels). If the modeling predicts noise levels that meet or exceed the criteria, the design team will investigate applicable mitigation measures.
- The Visual Assessment will document the extent of visual impacts created by the project and recommend mitigation, including landscaping, structural treatments, and public art.

*Identification of Any Additional Technical Analyses Needed*

Technical analyses beyond the original scope of work for the EAMR are not necessary.

**Recommendations**

*Project limits suitable for environmental clearance:* Y  N

*Limitations:* Y  N  If yes, describe:

- Mitigation measures recommended by the USACE per the Nationwide Permit 14 regional and general conditions
- Mitigation measures for the Floodplain Use Permit to avoid impacts to RRH if impacts are equal to or greater than one-third of an acre.
- Mitigation measures to remove vegetation outside the breeding season to avoid impacts on migratory birds
- Mitigation measures (landscaping and mitigation plans) to compensate for the loss of vegetation from construction

*Follow-up actions:* Y  N  If yes, describe:



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- Section 402 Storm Water Pollution Prevention Plan
  - Section 401/404 Permitting
  - Floodplain Use Permit (if impacts are equal to or greater than one-third of an acre)
  - Landscaping and Mitigation Plan
  - Visual Assessment

**Approval**

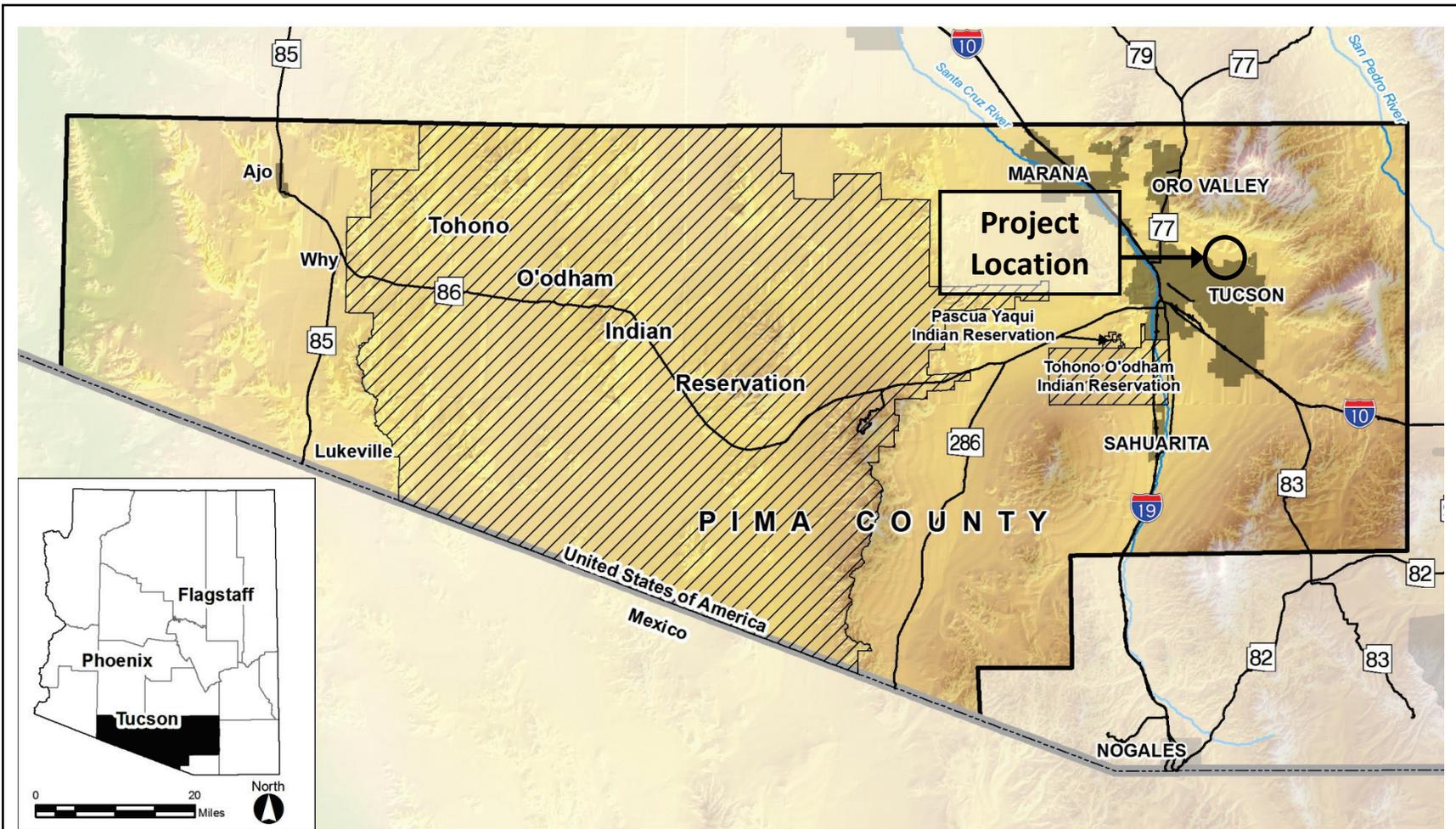
Engineering Division:

A handwritten signature in black ink, appearing to be "C. Kelly" followed by a flourish and the initials "P.C.".

Pima County Department of Environmental Quality: \_\_\_\_\_

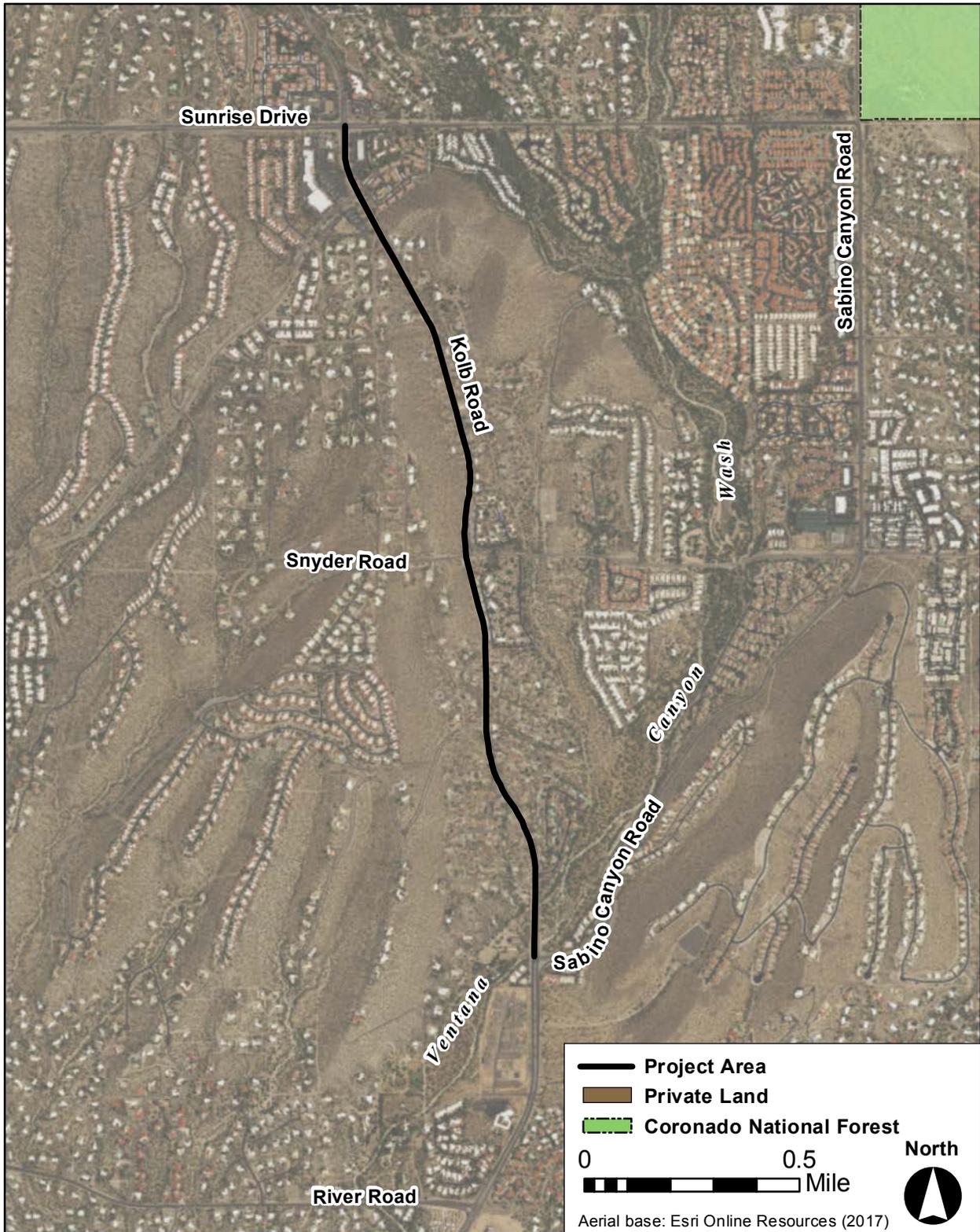
**Attachments**

1. Figure 1–Project location
2. Figure 2–Project vicinity
3. Completed Environmental Screening Questionnaire
4. Environmental Impact Screening Summary Matrix
5. Environmental coordination meeting agenda and meeting minutes
6. Kickoff meeting summary and sign-in sheet
7. AGFD Arizona Environmental Online Review Tool Report
8. USFWS IPaC Official Species List



**Environmental Screening Report**  
**Kolb Road: Sabino Canyon Road to Sunrise Drive**  
**PCDOT Number 4KSCSD**

Figure 1. Project location



**Environmental Screening Report**  
**Kolb Road: Sabino Canyon Road to Sunrise Drive**  
**PCDOT Number 4KSCSD**

Figure 2. Project vicinity



**ENVIRONMENTAL SCREENING QUESTIONNAIRE  
FOR ESTABLISHING POTENTIAL AREAS OF IMPACT**

**Kolb Road: Sabino Canyon Road to Sunrise Drive  
PCDOT Project Number 4KSCSD**

**INTRODUCTORY INFORMATION**

**Project Identification**

- *Project name:* Kolb Road: Sabino Canyon Road to Sunrise Drive
- *Pima County project manager:* Paul Bennett, PE

**Project Location and Limits**

- *Location of project in Pima County:* The project is in northeastern Pima County, approximately 1.2 miles north of Tucson. The Coronado National Forest is 1.2 miles to the east (refer to Figure 1–Project location and Figure 2–project vicinity).
- *Limits of project:* Along the existing Kolb Road alignment from Sabino Canyon Road to Sunrise Drive

*From end to end:* Approximately 1.9 miles

*From side to side:* The existing right-of-way (ROW) varies on each side of the roadway centerline, with total ROW widths ranging from 90 to 150 feet. Temporary construction easements (TCEs) and Drainage Easements (DEs) are expected to be required for driveway/side street connections and drainage improvements. The need for new ROW has not been determined at this stage of design.

**Funding Source**

- Funding source anticipated for use in construction project?

*County funding:* Y  N

Funding through: Pima County Department of Transportation (PCDOT) Project Number: 4KSCSD (Kolb Road: Sabino Canyon Road to Sunrise Drive)

*Federal funding:* Y  N

- *Other:* The project is listed in the Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 2017–2021 (approved October 31, 2016), as TIP #787.00. The total estimated cost is listed as \$15,527,000, including design. Federal funding is \$8.5 million, and Pima County bonds total \$7,027,000.

*Source:* PAG 5-Year Regional TIP 2017–2021.



### Primary Project Purpose

- *Primary purpose of project:* The 1997 bond program identified Kolb Road between Sabino Canyon Road and Sunrise Drive as a scenic major route needing improvements. The initial project identified the need to widen the existing two-lane roadway to a four-lane divided roadway. After further analysis of the traffic volumes on Kolb Road and in the surrounding area, it was determined that a three-lane roadway with a middle two-way left-turn lane would address the traffic needs of the area. The 1997 bond program narrative was updated accordingly.

*Modernize roadway:* Y  N

*Increase capacity:* Y  N

*Add bicycle lanes:* Y  N

*Improve safety:* Y  N

- *Other:* This effort is to improve safety and operations, with turning lanes to be provided, where warranted; increase mobility; and address accessibility/operational issues. The roadway will contain multi-use lanes, drainage, landscaping, pedestrian facilities, and, if warranted, noise mitigation in accordance with the results of a traffic study.

*Source:* Scope of Work—Kolb Road: Sabino Canyon Road to Sunrise Drive (Pima County Procurement Department)

### Existing Conditions Within Project Limits

- Roadway specifications?

Kolb Road from Sabino Canyon Road to Sunrise Drive is undivided, two lanes, and paved. There is one lane of travel in each direction, except approaching Sabino Canyon Road, Snyder Road, and Sunrise Drive. The roadway widens to four lanes with a median and a left-turn lane at the Kolb Road junction with Sabino Canyon Road. There are left-turn lanes in each direction at Snyder Road. There are left- and right-turn lanes at Sunrise Drive. The roadway from Sabino Canyon Road to Sunrise Drive is curvilinear and generally ascends.

Sabino Canyon Road, Snyder Road, and Sunrise Drive are signalized. Roads intersecting Kolb Road are generally stop-controlled. There are no stop signs on Kolb Road.

Twenty pipe or culvert crossings convey drainage under Kolb Road. One large box culvert is located where Sabino Canyon Road crosses over Ventana Canyon Wash.

*Right-of-way:* Varies from 90 to 150 feet.

*Pavement width:* Varies from approximately 24 feet to approximately 92 feet, depending on the number of through lanes, the width of the paved shoulder, and the presence or absence of turning lanes or a median.



*Number of through lanes in each direction:* There is one lane in each direction, except at Sabino Canyon Road, where the roadway widens to two lanes in each direction.

- Number of turning lanes?

*Right-turn lanes:* One right-turn lane at Sunrise Drive

*Left-turn lanes:* One left-turn lane at Sabino Canyon Road, Snyder Road, and Sunrise Drive.

*Middle-turn lanes:* None

- Existing intersections?

*Number of signalized intersections:* 3

*Number of unsignalized intersections:* 12 side streets

Existing parking (e.g. on-street)? Y  N

- Existing bike lanes. Y  N
- Existing sidewalk. Y  N  Except approaching Sabino Canyon Road; there are no sidewalks or paved pathways on Kolb Road.
- Existing transit stops. Y  N
- *Other:* There are multiple residential and commercial driveways directly onto Kolb Road, including a driveway for a Rural Metro Fire District facility.

*Sources:* Field Review and Aerial Photo Review (Pima County MapGuide).

### Project Components

- Anticipated specifications of the project? Kolb Road will be widened to approximately 46 feet in width to accommodate one 11-foot-wide travel lane in each direction, a 12-foot-wide center-turn lane, and a 6-foot-wide multi-use lane on each side of the roadway. A sidewalk and/or shared-use path will be added on at least one side of the roadway. Signalized intersections will remain, and no new signals will be added. Streetlights may be added near Sunrise Drive, Snyder Road, and Sabino Canyon Road. The 20 drainage pipes or culverts will be evaluated for modification or reconstruction.

*Amount of additional right-of-way to be acquired:* Additional ROW may be acquired for reconstruction of Kolb Road. It is expected that TCEs and DEs will be required for reconstruction of several culverts. Coordination with Pima County Regional Flood Control District (PCRFCDD) is anticipated for some culverts.

Under 1 acre:  1–5 acres:  5–10 acres:  Over 10 acres:

The project is expected to disturb more than 10 acres of surface area. Surface disturbance activities will include reconstruction of approximately 1.9 miles of Kolb Road and drainage improvements at 20 locations.

*Change in the vertical or horizontal alignment:* Y  N



Minor adjustments will be made to the vertical roadway profile of Kolb Road to accommodate drainage structures. The horizontal roadway alignment will be retained, except for minor centerline shifts within the existing ROW.

*New alignment:* Y  N

Shifts in roadway alignment will be minor and will not constitute a new alignment.

*Pavement width to be added:* Approximately 22 feet of new pavement width will be added to accommodate the center-turn lane and the multi-use lane.

*Number of through lanes to be added:* None.

Number of turn lanes to be added:

*Right-turn lanes:* None anticipated.

*Left-turn lanes:* None anticipated.

*Middle-turn lanes:* A center-turn lane throughout the project limits will be added.

*Any associated parking (e.g., on-street):* Y  N

*Bicycle lanes to be added:* Y  N

A multi-use lane in each direction will be added at the outside edges of the roadway.

*Sidewalk to be added:* Y  N

Sidewalk and/or a shared-use path will be constructed, where appropriate.

*Landscaping to be added:* Y  N

Landscaping will be added along the roadway shoulders.

- *Number of intersections to be signalized:* None.
- *Street lighting:* Streetlights may be added near Sunrise Drive, Snyder Road, and Sabino Canyon Road. Lighting will be shielded to reduce intrusion into neighborhoods, if warranted.

*Source:* Kickoff meeting minutes (Psomas)

**Phasing**

- Is the project:

*A portion of a unified development plan.* Y  N

The project was in the 1997 Transportation Bond Program (DOT-32) and in the PAG 2017–2021 Regional TIP (#787.00).

*One of a series of projects that may result in a cumulative set of environmental impacts on an identifiable area.* Y  N

Kolb Road was previously widened to four lanes (two lanes in each direction) from Sabino Canyon Road to Tanque Verde Road. The City of Tucson currently has an extension



of Kolb Road from Tanque Verde Road to Speedway Boulevard under construction. Kolb Road north of Sunrise Road is two lanes, with one lane in each direction. No further widening is planned or programmed for Kolb Road.

Source: PAG Regional TIP 2017–2021

**Traffic**

- Existing average daily traffic (ADT) in the project area?

Estimated ADT for the subject roadway is approximately 12,600 vehicles per day based on traffic counts completed by Pima County in October 2016. A traffic engineering study for the project limits is being conducted as part of the current design project.

- Projected ADT in the project area for the build year?

For the build year 2040, traffic volumes are expected to reach approximately 14,200 vehicles per day. A traffic engineering study for the project limits is being conducted as part of the current design project.

Source: Traffic counts completed by Pima County in October 2016.

**Land Uses**

- Existing adjacent land uses? Check all that apply and circle primary uses.

Commercial (e.g., retail businesses, service businesses): Y  N   
 Institutional (e.g., schools, hospitals, social services agencies): Y  N   
 Residential (e.g., single-family houses, apartments, townhouses): Y  N   
 Vacant lots: Y  N

Land in the project area is primarily residential development, with commercial development at the north end of the project limits and a Rural Metro Fire Station near the south end.

Industrial (e.g., light industry, heavy industry): Y  N

Recreational (e.g., parks, sports fields): Y  N

Sources: Field reconnaissance, Pima County assessor’s records, Pima County MapGuide

**Property Ownership**

- Existing land ownership

Majority public:   
 Majority private:   
 About evenly divided between public and private:

Source: Pima County MapGuide



## ENVIRONMENTAL CATEGORIES

### Drainage

- Will any stormwater drain from the project discharge into detention or retention basins on-site? Y  N

There are no existing detention or retention basins, and the need for basins has not been determined.

*Source:* Kickoff meeting minutes (Psomas)

### Section 401/404

- Are any culverts likely to be installed, replaced, or extended? Y  N

The project crosses Ventana Canyon Wash and multiple unnamed, ephemeral, dry washes that are currently conveyed under the roadway by pipes or culverts. Existing pipes or culverts will be reconstructed and extended to accommodate the widening of Kolb Road. The box culvert structure over Ventana Canyon Wash will not be impacted.

- Are any bridges being upgraded, extended, or replaced? Y  N
- Is any bank protection required in the construction of this project? Y  N

Drainage improvements at existing culverts will likely include constructing new drop-style inlets, replacing culvert pipe, and placing riprap at culvert outlets. The forthcoming drainage report will evaluate the need for, and extent of, downstream bank protection.

- Are there any wetlands in the project area? Y  N

Is it anticipated that there will be any discharge of dredged or fill material into “Waters of the United States”? Y  N

Minimizing impacts to Waters of the United States is a project goal. Constructing new, longer culverts is expected to impact Waters of the United States, and that will be addressed through the Section 404/401 permitting process. Impacts are expected to be less than 0.1 acre per wash crossing.

*Sources:* Field reconnaissance, review of aerial imagery, and review of preliminary design concepts with project team.

### Section 402

The project is expected to disturb more than 1 acre of surface area and, therefore, will require an Arizona Pollutant Discharge Elimination System Permit from the Arizona Department of Environmental Quality (ADEQ). The permit requires the preparation of a Storm Water Pollution Prevention Plan, a Notice of Intent, and a Notice of Termination. The project area is not in the vicinity of any designated Unique or Impaired Water as defined by the ADEQ. The nearest



Unique Water (Cienega Creek) and Impaired Water (Rose Canyon Lake) are more than 10 miles away.

### **Floodplain**

- Is the project area within a 100-year floodplain delineated on a Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map? Y  N

Yes, FEMA Flood Insurance Rate Map 04019C1715L (06/16/2011).

If “yes,” will the project substantially modify the topography of the floodplain either by placement or removal of materials within the floodplain? Y  N

The project will widen the existing Kolb Road alignment and extend existing culverts in their current locations. The 100-year floodplain in the project area is associated with Ventana Canyon Wash. No impacts to that wash are expected. No changes in the FEMA floodplain would occur.

*Source:* FEMA Flood Map Service Center

### **Biological Resources**

- Are there listed threatened, endangered, proposed, and/or candidate species likely to be found in the project vicinity? Y  N

A review of the U.S. Fish and Wildlife Service (USFWS) database was completed for the project. With the project proximity to the Coronado National Forest, perennial water in Sabino Canyon, and the diverse habitat north of the project, eight federally listed threatened or endangered species were identified in proximity of the project: California least tern, Mexican spotted owl, yellow-billed cuckoo, Gila chub, jaguar, lesser long-nosed bat, Northern Mexican gartersnake, and Sonoyta mud turtle. There is no designated critical habitat for the California least tern, and because there are no seacoasts or beaches in the project area, the California least tern is not expected to be impacted. Critical habitat has been designated for Mexican spotted owl, yellow-billed cuckoo, Gila chub, jaguar, and Northern Mexican gartersnake; however, the project area is outside critical habitat for these species. Because there are no forested areas in the project area, Mexican spotted owls are not expected to be impacted. Because there are no woodland areas in the project area, yellow-billed cuckoos and jaguars are not expected to be impacted. Because there are no perennial wetlands, stock tanks, or other wet areas known to be in the project area, Gila chubs and Sonoyta mud turtles are not expected to be impacted. There is no designated critical habitat for the lesser long-nosed bat, and because there are no caves or mines in the project area, this species is not expected to be impacted. The lesser long-nosed bat is proposed for delisting and currently under a public comment period until the end of March 2017. The resolution of the delisting proposal is not known at this time. Because there are no riparian areas with perennial waters in the project area, Northern Mexican gartersnakes are not expected to be impacted. A Biological Evaluation (BE) will be prepared for the project.



Sources: Arizona Game and Fish Department (AGFD) Arizona Environmental Online Review Tool (accessed November 2, 2016) and USFWS Information for Planning and Conservation Official Species List (accessed November 2, 2016).

- Are listed special status species likely to be found in the project vicinity? Y  N

The USFWS and the U.S. Forest Service sensitive species lists identified 11 species within 2 miles of the project: Pima Indian mallow (*Abutilon parishii*), Sabino Canyon dancer (*Argia sabino*), giant spotted whiptail (*Aspidoscelis stictogramma*), Mexican long-tongued bat (*Choeronycteris mexicana*), cactus ferruginous pygmy-owl (*Glaucidium brasilianum cactorum*), Sonoran Desert tortoise (*Gopherus morafkai*), Western red bat (*Lasiurus blossevillii*), Western yellow bat (*Lasiurus xanthinus*), Lemmon cloak fern (*Notholaena lemmonii*), big free-tailed bat (*Nyctinomops macrotis*), and Tumamoc globeberry (*Tumamoca macdougallii*). The Pima Indian mallow is usually found on steep, rocky slopes and canyons and has been identified in Ventana Canyon approximately 1.5 miles from the project area; however, the project area does not include canyons so this species is not likely to be affected. The Sabino Canyon dancer is found in pools or areas with streams in canyons; perennial streams are not found in the project area, so this species will not be impacted. The giant spotted whiptail inhabits riparian areas near streams dominated by sycamore and cottonwoods; however, the project area does not support this type of riparian habitat, so this species will likely not be affected. The Mexican long-tongued bat typically roosts in canyons, caves, or mines; however, these features are not found in the project area, so this species is not expected to be impacted. The cactus ferruginous pygmy-owl typically roosts in saguaros in Sonoran riparian deciduous woodland; however, this type of riparian habitat is not found within the project area, so this species is not likely to be impacted. The Sonoran Desert tortoise is often found in steep, rocky slopes and bajadas; while Sonoran Desert tortoises are not likely to occur in the project area, a BE will determine whether this species will be impacted. If there is potential for the species to be present, the AGFD *Guidelines for Handling Sonoran Desert Tortoises Encountered on Development Projects* will be included as a mitigation measure. Western red bats are most often found in cottonwood- and sycamore-dominated riparian habitat; however, the project area does not include this type of riparian habitat, so this species is not likely to be affected. The Western yellow bat is often associated with riparian habitat or palm trees; however, the project area does not include this type of riparian habitat or palm trees, so this species is not likely to be affected. The Lemmon cloak fern is usually found in igneous rock or limestone cliff crevices; however, the project area does not include cliffs, so this species will not be affected. The big free-tailed bat roosts in cliffs or caves; however, the project area does not include these features, so this species will not be affected. The Tumamoc globeberry is usually found in Sonoran Desert plains, and this project area does not include plains, so this species is not expected to be impacted. For details about USFWS and U.S. Forest Service special status species, see the AGFD Arizona Environmental Online Review Tool Report (attached). The BE will determine whether any species listed in the report are present in the project area. This project falls within the scope and permit area covered by the Pima County Section 10 Habitat Conservation Plan approved by the USFWS



in 2016. The Habitat Conservation Plan covers nine species listed as threatened and endangered under the federal Endangered Species Act and the 44 species covered in the Pima County Multi-Species Conservation Plan.

- Are protected native plants likely to be found in the project vicinity? Y  N

Three plants protected by Arizona’s Native Plant Law were identified within 2 miles of the project area in the AGFD Arizona Environmental Online Review Tool Report: Pima Indian mallow, staghorn cholla, and Tumamoc globeberry. Species found in the project vicinity include mesquite species (*Prosopis* spp.), paloverde species (*Cercidium* spp.), cholla and prickly pear cactus species (*Opuntia* spp.), barrel cactus species (*Ferocactus* spp.), ocotillo (*Fouquieria splendens*), pincushion cactus species (*Mammillaria* spp.), beehive cactus species (*Coryphantha* spp.), and saguaros (*Carnegiea gigantea*).

- Are construction activities anticipated to remove/disturb any vegetation? Y  N

Clearing and grubbing up to the ROW are expected on both sides of the roadway. In accordance with the Migratory Bird Treaty Act, this work will be completed during the nonbreeding season (estimated August 31–February 15) to avoid disturbance to migratory bird species.

- Is the project within the Conservation Land System? Y  N

Designated Important Riparian Areas (Conservation Land System) cross the project area at Kolb Road just north of Sabino Canyon Road. In addition, Pima County Regulated Riparian Habitat, as defined in Pima County Title 16, Floodplain Management Ordinance, crosses the project area in multiple locations along Kolb Road.

- Is the project along a designated Scenic Route? Y  N

This segment of Kolb Road is considered a major scenic route. Project development will follow the Environmentally Sensitive Roadway Design Guidelines, as described in the 2013 Pima County Roadway Design Manual. This includes preparation of a Visual Assessment.

Sources: Pima County MapGuide and [http://webcms.pima.gov/UserFiles/Servers/Server\\_6/File/Government/Transportation/Transportation%20Planning/Scenic%20final.pdf](http://webcms.pima.gov/UserFiles/Servers/Server_6/File/Government/Transportation/Transportation%20Planning/Scenic%20final.pdf)

**Air Quality**

- Is the project in an:

Attainment area? Y  N

Nonattainment area? Y  N  If “yes,” what are the pollutants of concern?

Maintenance area? Y  N  If “yes,” what are the pollutants of concern? Carbon monoxide.

Pima County will coordinate with the Arizona Department of Transportation to determine the need for a localized hot-spot air quality analysis. Construction activities are expected to result in



temporary impacts to particulate levels. The contractor shall obtain and comply with a Pima County Department of Environmental Quality Fugitive Dust Activity Permit.

*Source:* PAG December 2016 (<http://www.pagnet.org/Programs/SustainableEnvironment/Air/AirQualityOverview/CarbonMonoxide/tabid/260/Default.aspx>)

**Noise**

- Are there sensitive noise receptors in the area? Y  N   
If “yes,” identify type of noise receptors and briefly describe:

*Residences:* Single-family residences and apartment complexes are along Kolb Road and crossroads. Most residences have some type of privacy wall, but many have fronts on Kolb Road with no wall.

*Schools:* None.

*Churches:* None.

*Other:* None.

- When the project is complete and being used as anticipated, is it likely to contribute to an exceeded level of noise quality standards? Y  N

The project will not add capacity. A noise study will be conducted during the design phase. Temporary impacts during construction are anticipated and will be limited through compliance with the Pima County Noise Ordinance (Pima County Code, Chapter 9.30.070).

*Source:* Pima County MapGuide

**Utilities**

- Will the construction include any utility involvement? Y  N   
If “yes,” what kind of work is anticipated?

*Utility relocation:* Multiple types of utilities are present and in conflict with the project design, including overhead power, natural gas, communications, water, and wastewater.

*Temporary disconnection of service:* Temporary service disconnections may occur. PCDOT is coordinating with utilities to determine the extent and timing of utility relocations.

*Utility replacement:* Unknown.

- Are there any scheduled plans for utility upgrades in the vicinity that are not related to the project? Y  N  To be determined

Unknown at this time. Coordination with utility companies will occur throughout design.

*Source:* Kickoff meeting minutes (Psomas)



### Hazardous Materials

- Is it likely that any hazardous wastes or hazardous substances in the past have been generated, treated, stored, released, discarded, or disposed of on-site or are any such wastes now accumulated on-site? Y  N  Don't know

A Preliminary Initial Site Assessment (PISA) will be completed for the project. The project area land uses typically do not represent environmental concerns for hazardous or regulated materials.

- Have any test borings been performed? Y  N

Test borings have not been done for the discovery of hazardous materials and are not expected to be required at this time.

If “yes,” were any wastes discovered on the premises in the course of the test borings or excavation work for the project? Y  N

*Source:* Field reconnaissance and discussions with Pima County.

### Historic Preservation

- Are there any cultural resources (archaeological or historic) in the vicinity of the project area that are listed in or eligible for the National Register of Historic Places? Y  N

No archaeological sites were discovered during a cultural resources Class I inventory and Class III survey conducted for the project area in 2001 by Desert Archaeology, Inc. This report will be reviewed and results updated to incorporate a discussion of historical properties. A number of the single-family residences adjacent to Kolb Road may approach 50 years old.

- Are any of the sites considered “Priority Cultural Resources”? Y  N
- If the answer is “yes” to either or both of the preceding questions, please list the resource(s)/site(s):
- Of those properties listed or eligible, are any located near enough to the project to be affected by the project location, construction, or anticipated future traffic? Y  N
- Are there any structures likely to be 50 years old or older in, or adjacent to, the project area? Y  N  To be determined

If “yes,” please list addresses below:

*Source:* DAI 2001 (*A Cultural Resources Survey of Sabino Canyon Road and Sunrise Drive, Pima County, Arizona*)

### Visual Impact

- Is the project likely to noticeably affect the views from adjacent properties? Y  N

If “yes,” briefly describe:



The Kolb Road widening will moderately alter views from adjacent properties. The widened roadway will increase the paved area and require some cut and fill slopes. The general visual character of the area will not change, but the project area will be altered by the increased paving, mature vegetation removal, and enlargement of drainage features. A Visual Assessment will be prepared to document impacts and recommend mitigation, including landscaping, structural treatments, and public art.

Is the project likely to cause a noticeable change in the foreground, middle-ground, or background views from the road? Y  N

No building structures or major utilities will be removed or relocated. Motorist, bicyclist, and pedestrian views will be impacted in terms of mature vegetation loss at some locations and visual treatment of cut or fill slopes. The extent of cut or fill slopes and measures to mitigate exposed hillsides or soils have not yet been determined. With completion of landscaping measures, the on-road visual impacts will be reduced.

No intersection street lighting is currently present. The project will add lighting at several intersections. This will add the visual element of the new poles and nighttime lighting.

*Source:* Field reconnaissance

**Neighborhood/Social Impact**

- Is there likely to be any commercial or residential displacement due to the construction of this project? Y  N

- Are there likely to be any temporary changes in:

*Business access:* Y  N

Temporary driveway closures will be required during construction.

*Parking:* Y  N

- Are there likely to be any permanent changes in:

*Traffic service:* Y  N

The addition of a center-turn lane on Kolb Road will improve traffic operation and access to residential neighborhoods and improve through-traffic use. The addition of multi-use lanes and pedestrian pathway/sidewalks will add alternative transportation options for local residents.

*Traffic circulation:* Y  N

The new center-turn lane will improve vehicle turning movements and reduce or eliminate traffic delays due to turning vehicles.

*Parking:* Y  N

- Is the project likely to affect continuity in neighborhoods in the vicinity? Y  N



Sources: Pima County MapGuide, aerial photography review, design discussions with PCDOT and project team.

### LOCAL JURISDICTION/AGENCY COORDINATION

- Are there local jurisdictions and governmental agencies with which coordination is anticipated or has begun? Y  N

*Arizona Department of Agriculture*

*Arizona Department of Environmental Quality*

*Arizona Department of Transportation*

*Arizona Game and Fish Department*

*Arizona State Historic Preservation Office*

*Pima County Cultural Resources and Historic Preservation Office*

*Pima County Department of Environmental Quality*

*Pima County Department of Transportation*

*Pima County Real Property Services*

*Pima County Regional Flood Control District*

*Regional Transportation Authority*

*U.S. Army Corps of Engineers*

*U.S. Fish and Wildlife Service*

- Note any issues for coordination that have been identified to date:

The project will require a Clean Water Act Section 404 permit from the U.S. Army Corps of Engineers and Section 401 water quality certification from the ADEQ.

Pima County–designated riparian habitats are present along Kolb Road (PCRFCDD).

Biological resources and protected plant and animal species (USFWS, AGFD, Arizona Department of Agriculture).

- Briefly describe coordination efforts planned or underway:

The environmental coordination meeting with local, regional, state, and federal agencies and jurisdictions took place on December 1, 2016. During this meeting, the environmental consultants discussed the potential biological impacts, the impending Environmental Assessment and Mitigation Report, and the National Environmental Policy Act Categorical Exclusion environmental clearance through the Arizona Department of Transportation and the Federal Highway Administration. The Preliminary Jurisdictional Delineation for the Clean Water Act Section 404 permitting was planned. A native plant inventory will be conducted in



the spring, and the PCRFCFCD riparian mapping imagery is slated for review. Cultural analysis, noise analysis, and the PISA have not yet been completed.

*Source:* Environmental coordination meeting minutes

**PUBLIC INVOLVEMENT**

- Has a Public Involvement Plan been developed for the project? Y  N

A public involvement plan was developed by Pima County to include the formation of a Community Advisory Committee (CAC).

- Has a CAC been formed, or is one being formed? Y  N

The CAC is expected to have 13 members, including several from the original 2000–2001 CAC. The representatives are from the project area. The first meeting will be held in January 2017, date and location to be determined.

- Have any public meetings been scheduled? Y  N

If “yes,” have any meetings been held to date? Y  N

The first public open house is tentatively scheduled for spring 2017.

- Has any information useful to the project development been identified through public interaction to date? Y  N

If “yes,” briefly describe:

The previous CAC input on the original four-lane divided Kolb Road concept has guided the current design toward the three-lane roadway with center-turn lane.

- Is there any known controversy over this project to date? Y  N  To be determined

If “yes,” briefly describe:

The previous four-lane divided roadway concept was met with substantive opposition. The previous CAC recommended the reduced three-lane roadway. Therefore, PCDOT expects general support for this concept.

*Source:* PCDOT

**PERMITS**

- Anticipated permits and/or approvals?

*Section 404 Permit:* Yes, preliminary design indicates the project qualifies for a nonnotifying Nationwide Permit 14, Linear Transportation Projects.

*Section 401 Permit:* Conditionally certified through ADEQ

*Air Quality Fugitive Dust Activity Permit (Pima County Department of Environmental Quality):* Yes



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*Sole Source Aquifer:* Not applicable

*State Historic Preservation Office Clearance:* Section 106 consultation through the Pima County Memorandum of Agreement is expected.

*Arizona Pollutant Discharge Elimination System Permit and Construction General Permit AZG2013-001 (ADEQ):* Yes

*Pima County Floodplain Use Permit (PCRFCFCD):* To be determined

*National Emissions Standards for Hazardous Air Pollutants Permit (Pima County Department of Environmental Quality):* To be determined

*Arizona Department of Agriculture Notice of Intent to Clear Land (Arizona Native Plant Law):* Yes

*National Environmental Policy Act Categorical Exclusion (40 CFR 1508.4 and 23 CFR 771.117a):* Yes

*Other: Pima County Roadway Design Manual, Chapter 4—Environmentally Sensitive Roadway Design Guidelines:* Yes

*Sources:* Clean Water Act Sections 404 and 401, ADEQ, National Historic Preservation Act, Pima County ordinances

***Completed by:*** Michael R. Dawson, Senior Environmental Planner, EcoPlan Associates, Inc.

***Date:*** January 20, 2017

**Environmental Impact Screening Summary Matrix  
4KSCSD Kolb Road: Sabino Canyon Road to Sunrise Drive**

Potentially Affected Environmental Categories		Types of Impacts										
Applicable to Project	Project Construction and Operation Activities	Water Quality	100-Year Floodplain	Protected Watersheds	Visual Quality/Viewsheds	Protected Plants/Vegetation	Protected Animals/Wildlife	Cultural Resources	Air Quality	Noise	Hazardous Materials	Land Uses / Community Character
√	Change in the Vertical or Horizontal Alignment	X	X	NA	O	X	X	O	O	X	O	NA
	New Alignment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Added Capacity (i.e., through lanes)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
√	Milling/Grading	X	O	NA	O	X	X	O	X	X	O	NA
	Change in Access (e.g., driveways, intersections)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
√	Clearing and Grubbing	M	X	NA	M	M	M	O	X	X	O	X
	Excavation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
√	Cut Slope	X	O	NA	M	M	M	O	NA	NA	NA	NA
	Demolition	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Demolition Debris Disposal	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
√	Acquisition of Additional Right-of-Way	NA	NA	NA	NA	NA	NA	NA	NA	NA	O	X
√	Temporary Construction Easements	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	X
√	Discharge of Dredge or Fill Material	X	X	NA	X	M	X	O	X	O	O	NA
	Channeling or Dredging	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
√	Hauling	O	O	NA	O	NA	NA	NA	X	X	NA	NA
	New Signals	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
√	Storm Water Drainage	X	X	NA	X	X	X	O	NA	NA	O	NA
√	Construction Equipment	X	X	NA	X	X	X	O	X	X	O	NA
	Detour Route	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

M = Potential moderate impact  
 NA = Not applicable  
 O = No involvement  
 X = Potential involvement but no or minimal impact



Kolb Road: Sabino Canyon Road to Sunrise Drive  
PCDOT Project Number 4KSCSD

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Environmental Coordination Meeting

**MINUTES**

December 1, 2016, 2:00pm-3:00pm

Pima County Department of Transportation-4<sup>th</sup> Floor Conference Room, 201 N. Stone Ave.

1. Attendance

PCDOT-Paul Bennett, Ellen Alster  
PCDEQ-Karla Reeve-Wise, Kimberly Baeza  
PC Cultural-Roger Anyon  
PCRFCO-Ann Moynihan  
USACE-Jesse Rice  
Psomas-Kevin Thornton  
EcoPlan-Mike Dawson, Maria Altemus  
McGann Associates-Darlene Showalter  
ADOT-Sarah Karasz

2. Overview

This meeting marked the kickoff for environmental and cultural studies required for the project, and was designed to provide project background information to project team and consulting or interested agencies and jurisdictions. Paul Bennett and Kevin Thornton provided a Project Overview and discussion of the project stages. Mike Dawson briefly outlined the technical reports required for the project.

3. Discussion of Environmental Topics

- **Community Advisory Committee Status:** There are 13 members, with 2 from the original CAC.
- **Biological Evaluation:** A Biological Evaluation will be prepared to address potential Endangered Species Act protected plants. While this is primarily a residential area and there is not likely to be any issues regarding threatened or endangered species in the project area, because of the close proximity to the Sabino Canyon Recreation Area and Coronado National Forest, various species occur on the Arizona Game and Fish Department online environmental tool and U.S. Fish and Wildlife tool. The BE will address this issue.
- **Native plant inventory and landscaping:** Native plant inventory, and landscaping and mitigation plans will be developed by Ellen Alster and Darlene Showalter. The native plant inventory will occur in spring 2017 and the opportunity to use the adjacent Home Owners Association undeveloped property to conduct the Releve survey will be examined. The visual assessment will be completed possibly using the FHWA checklist.

In order to show cut/fill treatments, visual simulation may be considered. The goal is to keep use Craycroft Road and Sunrise Drive as examples for what Kolb Road will look like.

- **Preliminary Jurisdictional Determination/404 Permitting:** Preliminary field work for the preliminary jurisdictional determination (PJD) will occur in December 2016 by Maria Altemus and Ron Van Ommeren from EcoPlan. It is doubtful that more than .1 acres will be impacted by project design. Per Jesse Rice, for the PJD, the documentation of the high water marks is important.
- **Riparian Evaluation and Floodplain Use Permit:** Ann Moynihan clarified that if more than 1/3 acre of riparian areas will be disturbed, a Floodplain Use Permit is needed. It is necessary to review the PCRFCF riparian mapping because it may be outdated, as the shapefile shows riparian areas in developed lots or homes.
- **Cultural Resources:** in 2001, a cultural survey was completed and it did not show any archaeological or historic sites. Records will have to be checked to see if adjacent houses are 50 years old. If the survey and records review results in a finding of no historic properties affected ADOT may conduct consultation through a Consultation Initiation Form (CIF).
- **Noise Analysis:** Mike Dawson discussed the need for quantitative noise modeling to satisfy the public. This will be completed by Sound Solutions (not in attendance).
- **Air Quality Report:** Because the traffic volume will not be increased, there may not be a need for an air quality report, but Sarah Karasz will confirm.
- **Preliminary Initial Site Assessment/Phase I Environmental Site Assessment:** A PISA will be conducted by Ninyo and Moore (not in attendance). Mike Dawson noted that there are no gas stations or other land use concerns nearby.
- **Environmental Screening Summary Matrix and Results Memorandum:** The matrix and memorandum consists of existing documentation and will be completed in January by EcoPlan and submitted to Pima County.
- **Environmental Assessment and Mitigation Report (EAMR):** This document covers the full range of environmental issues and includes a public review and Board of Supervisors approval.
- **Categorical Exclusion:** This project will likely qualify for a Group 2A programmatic CE.
- **Arizona Pollutant Discharge Elimination System Construction General Permit and Stormwater Pollution Prevention Plan:** This is needed if the project will disturb more than 1 acre, which is likely.

#### 4. Action Items

- EcoPlan to complete Environmental Screening Summary Matrix and Results Memorandum (January 2017)

Minutes prepared by EcoPlan Associates, December 21, 2016.



## **Kolb Road: Sabino Canyon Road to Sunrise Drive**

### **Pima County DOT Project No. 4KSCSD**

#### **Project Overview**

##### **Environmental Coordination Meeting**

The purpose of this meeting is to coordinate environmental issues related to the proposed project. Pima County will prepare an Environmental Assessment and Mitigation Report (EAMR) consistent with the Pima County Roadway Design Manual—Environmentally Sensitive Roadway guidance. The first step is an Environmental Coordination Meeting to secure agreement on issues, level of effort/documentation, and processes needed for each environmental discipline or jurisdiction potentially affected by the project. In addition, due to federal construction funding from the Federal Highway Administration, the project environmental clearance process will be coordinated through the Arizona Department of Transportation.

##### **Project Background**

The 1997 Bond program identified Kolb Road between Sabino Canyon Road and Sunrise Drive as a scenic major route needing improvements. The initial project identified the need to widen the existing two-lane roadway to a four-lane divided roadway. Subsequent to that, traffic volumes associated with Kolb Road and the surrounding area were further analyzed, and it was determined that a three-lane roadway with a middle two-way left-turn lane would address the traffic needs of the area. This effort will develop a Design Concept Report and associated Initial Design Phase Plans, an EAMR and associated Final Design Phase Plans, and Initial and then Final Plans, Specifications, and Estimate for Kolb Road between Sabino Canyon Road and Sunrise Drive.

##### **Project Description**

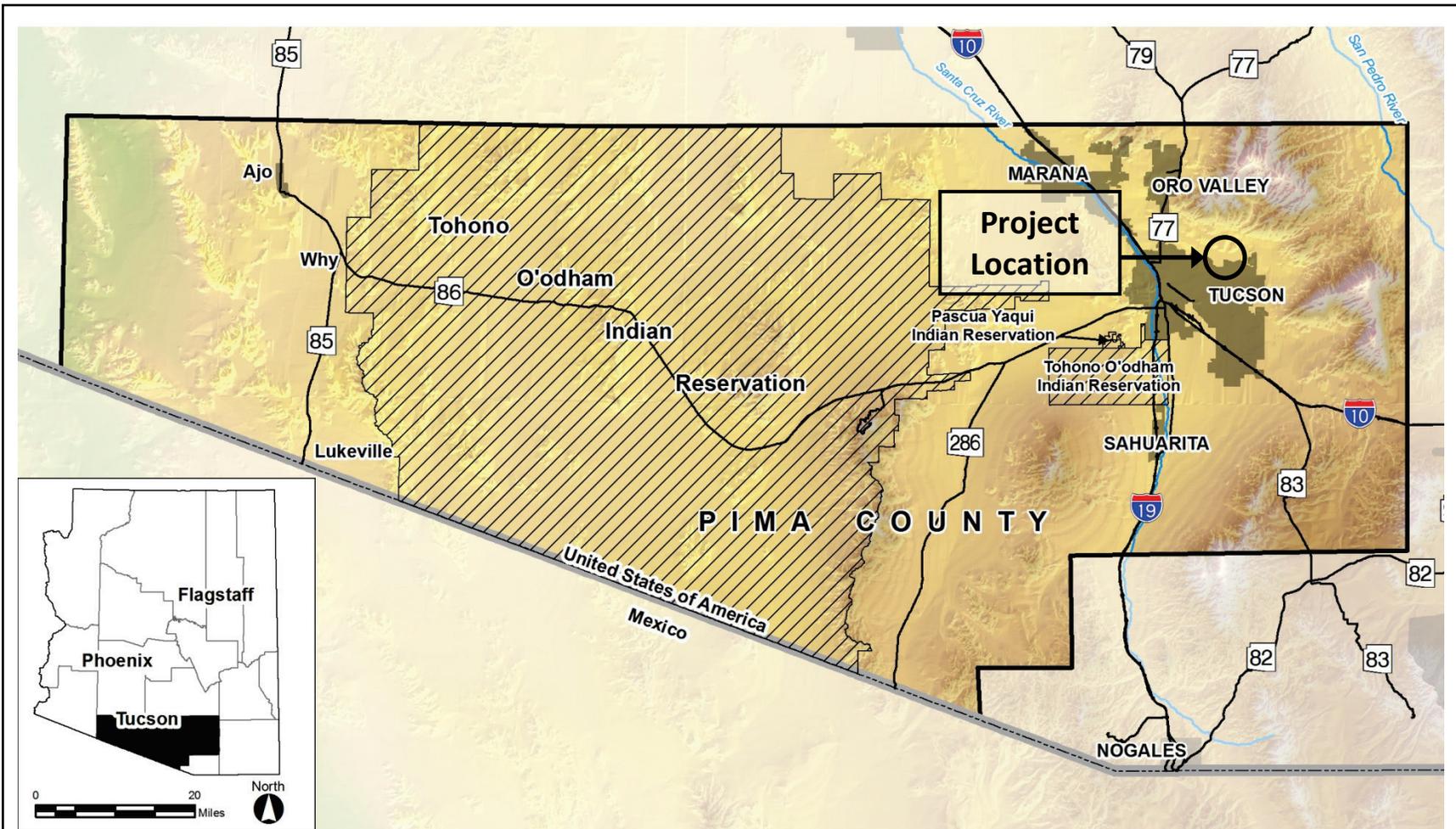
This project consists of widening approximately 1.9 miles of Kolb Road from an existing two-lane roadway to a three-lane roadway between Sabino Canyon Road and Sunrise Drive in compliance with the 1997 Bond program. This effort is being pursued to improve safety and operations (with turning lanes to be provided, where warranted), increase mobility, and address accessibility/operational issues. The roadway will contain multi-use lanes, drainage, landscaping, neighborhood screening, and noise mitigation in accordance with the results of a

noise study. The median will be a two-way left-turn lane. Other potential improvements to be considered and evaluated include provisions for pedestrians and other uses, along with landscaped shoulders. This effort will complete DOT-32.

Project construction is planned to begin in fall 2018, with an approximate duration of 15 months. Through traffic and local access will be maintained during construction. Temporary construction easements are expected for reconstructing driveways and turnouts within the existing right-of-way. Drainage easements may also be necessary for construction and maintenance of new drainage facilities.

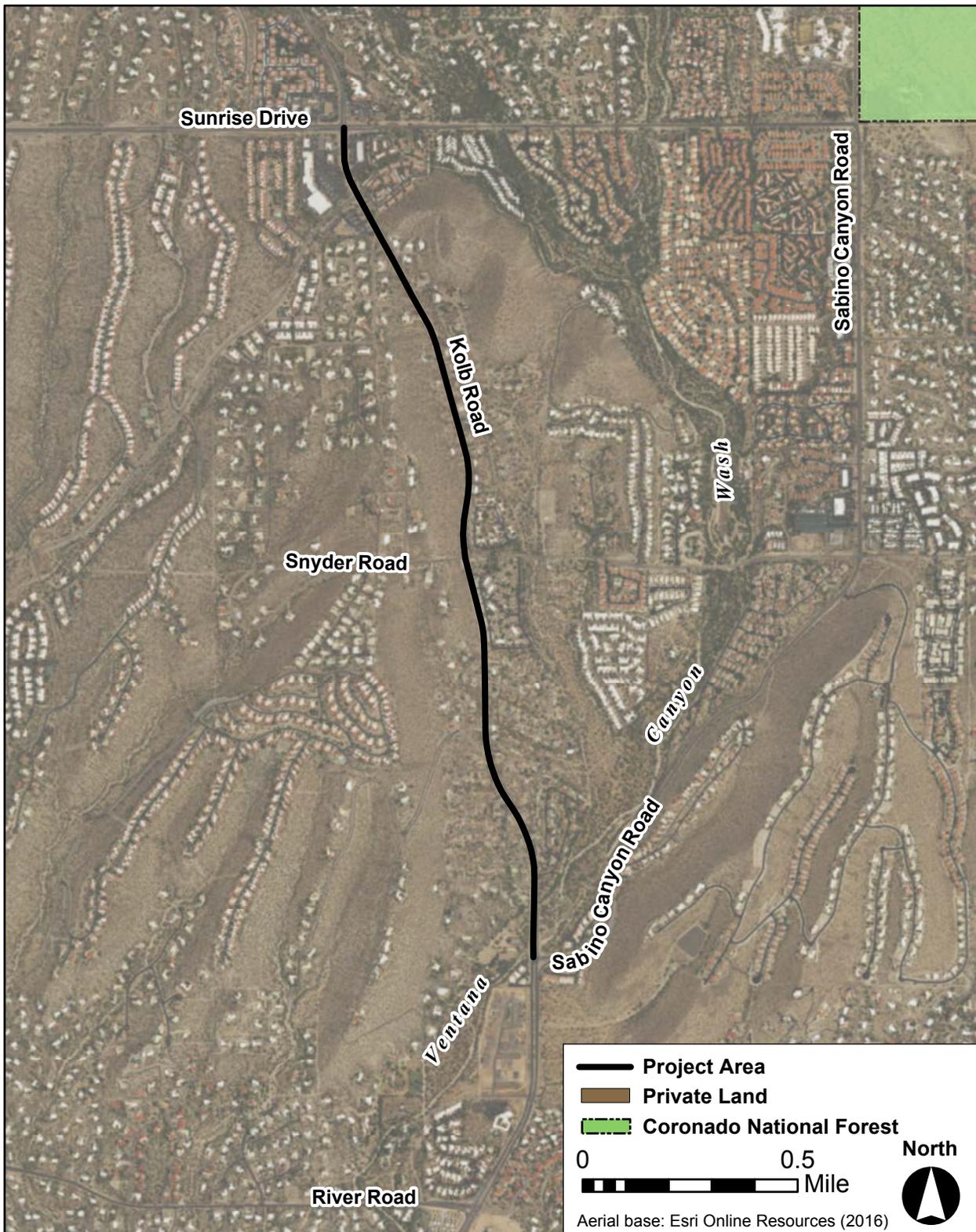
The scope of work for this project will include:

- Widening Kolb Road from Sabino Canyon Road to Sunrise Drive to include:
  - Two through lanes (one in each direction)
  - A continuous center left-turn lane
  - Two multi-use lanes (one in each direction) for bicycle use, disabled vehicles, and other users
- Potentially adding street lighting along Kolb Road from Sunrise Drive to Territory Drive and from Sabino Canyon Road to Cripple Creek Drive
- Reconstructing side streets and driveways, as necessary, to tie into the new roadway
- Reconstructing the Kolb Road/Snyder Road intersection, including traffic signals and street lighting
- Adding an Americans with Disabilities Act–compliant sidewalk and/or multi-use path on at least one side of the roadway
- Improving drainage, including potentially adding culverts, scuppers, swales, and channels
- Building retaining walls, as necessary
- Modifying utilities, as necessary, to accommodate the project improvements
- Installing new signs and pavement markings to accommodate the project improvements
- Adding public art
- Improving landscaping
- Building noise walls, if warranted



Environmental Coordination Planning Meeting  
 Kolb Road: Sabino Canyon Road to Sunrise Drive  
 PCDOT No. 4KSCSD

Figure 1. Project location



**Environmental Coordination Planning Meeting**  
**Kolb Road: Sabino Canyon Road to Sunrise Drive**  
**PCDOT No. 4KSCSD**

Figure 2. Project vicinity

**Kolb Road: Sabino Canyon Road to Sunrise Drive  
(PCDOT No. 4KSCSD)  
Environmental Coordination Planning Meeting  
December 1, 2016**

<b>Name</b>	<b>Organization</b>	<b>Address</b>	<b>Email</b>	<b>Attend Yes/No</b>
Paul Bennett	PCDOT	Pima County Department of Transportation 201 N. Stone Ave., Fourth Floor Tucson, AZ 85701	Paul.Bennett@pima.gov	
Ellen Alster	PCDOT	Pima County Department of Transportation 201 N. Stone Ave., Fourth Floor Tucson, AZ 85701	Ellen.Alster@pima.gov	
Carol Brichta	PCDOT	Pima County Department of Transportation 201 N. Stone Ave., Fourth Floor Tucson, AZ 85701	Carol.Brichta@pima.gov	
Karla Reeve-Wise	PCDEQ	Pima County Department of Environmental Quality 33 N. Stone Ave., Suite 700 Tucson, AZ 85701	Karla.Reeve-Wise@pima.gov	
Kimberly Baeza	PCDEQ	Pima County Department of Environmental Quality 33 N. Stone Ave., Suite 700 Tucson, AZ 85701	Kimberly.baeza@pima.gov	
Dana Hausman	PC Real Property	Pima County Real Property Services 201 N. Stone Ave., Sixth Floor Tucson, AZ 85701	Dana.Hausman@pima.gov	
Ian Milliken	PC Cultural Resources	Pima County Cultural Resources and Historic Preservation 201 N. Stone Ave., Sixth Floor Tucson, AZ 85701	Ian.Milliken@pima.gov	

**Kolb Road: Sabino Canyon Road to Sunrise Drive  
(PCDOT No. 4KSCSD)**

**Environmental Coordination Planning Meeting**

**December 1, 2016**

<b>Name</b>	<b>Organization</b>	<b>Address</b>	<b>Email</b>	<b>Attend Yes/No</b>
Roger Anyon	PC Cultural Resources	Pima County Cultural Resources and Historic Preservation 201 N. Stone Ave., Sixth Floor Tucson, AZ 85701	Roger.Anyon@pima.gov	
Ann Moynihan	PCRFCD	Pima County Regional Flood Control District 201 N. Stone Ave., Ninth Floor Tucson, AZ 85701	Ann.Moynihan@pima.gov	
Patricia Gilbert	PCRFCD	Pima County Regional Flood Control District 201 N. Stone Ave., Ninth Floor Tucson, AZ 85701	Patricia.Gilbert@rfcd.pima.gov	
Bill Zimmerman	PCRFCD	Pima County Regional Flood Control District 201 N. Stone Ave., Ninth Floor Tucson, AZ 85701	Bill.Zimmerman@pima.gov	
Jesse M. Rice	USACE	U.S. Army Corps of Engineers, Los Angeles District, Regulatory Division 3636 N. Central Ave., Suite 900 Phoenix, AZ 85012	Jesse.M.Rice@USACE.army.mil	
Scott Richardson	USFWS	U.S. Fish and Wildlife Service 201 N. Bonita Ave., Suite 141 Tucson, AZ 85745	Scott_Richardson@fws.gov	
Kristin Terpening	AGFD	Arizona Game and Fish Department Region V 555 N. Greasewood Road Tucson, AZ 85745	KTerpening@azgfd.gov	

**Kolb Road: Sabino Canyon Road to Sunrise Drive  
(PCDOT No. 4KSCSD)**

**Environmental Coordination Planning Meeting**

**December 1, 2016**

<b>Name</b>	<b>Organization</b>	<b>Address</b>	<b>Email</b>	<b>Attend Yes/No</b>
Kevin Thornton	Psomas	Psomas 333 E. Wetmore Road, Suite 450 Tucson, AZ 85705	kthornton@pasomas.com	
Mike Daly	Psomas	Psomas 333 E. Wetmore Road, Suite 450 Tucson, AZ 85705	mdaly@psomas.com	
Bill Holliday	Sound Solutions	Sound Solutions 3361 N. Forgeus Ave. Tucson, AZ 85716	bill@ssacoustical.com	
Heather Shoemaker	Ninyo & Moore	Ninyo & Moore 1991 E. Ajo Way, Suite 145 Tucson, AZ 85713	hshoemaker@ninyoandmoore.com	
Mike Dawson	EcoPlan	EcoPlan Associates, Inc. 78 W. Cushing St. Tucson, AZ 85701	mdawson@ecoplanaz.com	
Maria Altemus	EcoPlan	EcoPlan Associates, Inc. 78 W. Cushing St. Tucson, AZ 85701	maltemus@ecoplanaz.com	
Scott O'Mack	EcoPlan	EcoPlan Associates, Inc. 78 W. Cushing St. Tucson, AZ 85701	somack@ecoplanaz.com	
Darlene Showalter	McGann Associates	McGann Associates 6814 N. Oracle Road, Suite 510 Tucson, AZ 85704	dshowalter@mcgannland.com	

**Kolb Road: Sabino Canyon Road to Sunrise Drive  
(PCDOT No. 4KSCSD)**

**Environmental Coordination Planning Meeting  
December 1, 2016**

<b>Name</b>	<b>Organization</b>	<b>Address</b>	<b>Email</b>	<b>Attend Yes/No</b>
Matt Bondy	ADOT	Arizona Department of Transportation Environmental Planning 1221 S. Second Ave., MD T100 Tucson, AZ 85713	Mbondy.consultant@azdot.gov	
Sarah Karasz	ADOT	Arizona Department of Transportation Environmental Planning 1221 S. Second Ave., MD T100 Tucson, AZ 85713	skarasz@azdot.gov	



**Kolb Road: Sabino Canyon Road to Sunrise Drive  
PCDOT No. 4KSCSD**

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**Environmental Coordination Meeting  
December 1, 2016, 2:00 p.m.–3:00 p.m.  
Pima County Department of Transportation  
4th Floor Conference Room  
201 N. Stone Ave.  
Tucson, Arizona**

**AGENDA**

- Project Overview (Paul Bennett, Pima County Department of Transportation Project Manager)
- Environmental Assessment and Mitigation Report process (Karla Reeve-Wise, Pima County Department of Environmental Quality/Mike Dawson, EcoPlan Associates, Inc., and team)
- Arizona Department of Transportation environmental clearance process (Karla Reeve-Wise, Pima County Department of Environmental Quality/Sarah Karasz, Arizona Department of Transportation Environmental Planning)
- Review process and guidelines/formats for the following items/issues:
  - Citizens Advisory Committee status
  - Biological Evaluation
  - Native plant inventory, landscaping, and mitigation plans
  - Preliminary Jurisdictional Delineation/Clean Water Act Section 404 permitting
  - Riparian evaluation and Floodplain Use Permit
  - Cultural resources
  - Noise analysis
  - Preliminary Initial Site Assessment/Phase I Environmental Site Assessment
  - Environmental Screening Summary Matrix/Results Memorandum
  - Environmental Assessment and Mitigation Report
  - Categorical Exclusion
  - Arizona Pollutant Discharge Elimination System Construction General Permit and Stormwater Pollution Prevention Plan
  - Project schedule

# PSOMAS

September 8, 2016

**To:** Attendees/Project Contact List

**From:** Kevin Thornton

**Project:** Kolb Road: Sabino Canyon to Sunrise  
Psomas No. 7PIM160201

**Re:** **Summary of Kick-off Meeting on September 8, 2016**

The kick-off meeting for the Kolb Road: Sabino Canyon to Sunrise project was held at 1:00 p.m. on September 8, 2016 at the **Pima County Public Works Building**. The purpose of the meeting was to introduce the stakeholders to the project and introduce the design team.

**Attendees:** See attached Sign-in Sheet

**The following is a summary of the meeting:**

- Project Description – The project consists of widening Kolb Road from two to three lanes between the intersections of Sabino Canyon Road and Sunrise Drive. The project will include the addition of multi-use lanes and improvements to drainage and landscaping.
- Project Issues
  - Snyder Road west of the project should be avoided, since significant improvements would need to be made to bring the vertical grade to standard.
  - In order to lower travel speeds, several improvements are recommended at the Sabino Canyon Road intersection, including shortening the northbound taper after the intersection and narrowing the travel lanes. A separated bike lane was discussed, although there are concerns involving the maintenance of the bike lane and median, as well as drainage along the median.
  - Cross Section – The typical section will include 11-foot travel lanes in each direction, a 12-foot two-way left turn lane, and 6-foot multi-use shoulders.
  - Slope Design – The 2002 geotechnical report was discussed and SCE will provide slope recommendations ensuring that they meet current standards.
  - Alignment/Design Speed – Much of the existing alignment is adequate for the 40 mph design speed. Potential adjustments to the vertical alignment may be necessary at certain locations.
  - Street Lighting – Existing street lighting is found at the intersections of Kolb/Sabino Canyon, Kolb/Snyder, and Kolb/Sunrise. An advance warning signal may be provided

near Fire Station 73. New lighting will be evaluated between Territory Drive and Sunrise Drive. Lighting shields may be needed to minimize light pollution at nearby residences.

- Pavement Structure – Pavement structural sections will follow the newest Pima County standards. Pavement design should minimize water infiltration and erosion of the subgrade.
- Drainage – Main concerns are cross drainage and roadside drainage. A site visit will be conducted to inspect erosion and storm runoff into driveways. A few drainage easements are anticipated to be needed.
- Utilities – No major relocations are anticipated; however, potholing will be conducted to confirm conflicts. Potholing will be added to environmental clearance for the geotechnical work.
- Environmental – Cultural investigation will commence once the project limits are set. At that time, the design will be sent to the cultural survey team. Include empty county lot in cultural survey as a potential construction staging area.
- Land Use – The land uses within the project area are primarily residential, including single family homes and apartment complexes. Commercial land use occurs at the north end of the project.
- Public Participation – Will consist of two public open houses and one public hearing. Written records of these meetings will be kept for the environmental clearance.
- Landscaping – Landscaping will follow standard county procedures and will match the existing landscape. The project team will ensure that points of connection for irrigation are within the environmental footprint.
- Survey – Initial survey scans have been completed. Preliminary design and control information will be completed soon. Additional survey data will be gathered to locate existing utilities to supplement data. Further surveys will need to be completed to supplement locations missed by the laser scan.
- Monthly coordination meetings will be held on the 1<sup>st</sup> Thursday of every month, from 1:00 – 3:00 PM. The first meeting will be held on November 3<sup>rd</sup>.

#### Project Schedule:

- DCR and PA will be completed in 1 year.
- Final Design will be completed in following year.

#### Action Items:

- Psomas to provide a copy of 2002 geotechnical report to SCE.
- Psomas to forward ADA language concerning 5% slope of crosswalks.
- Psomas and County to conduct site visit to inspect erosion and storm runoff into driveways.

The meeting adjourned at approximately 2:20 PM.

**Sign-in Sheet**  
**Kolb Rd.: Sabino Canyon to Sunrise Rd.**  
**Kick Off Meeting, Thursday, September 8, 2016**

Last Name	First Name	Organization	Phone	E-Mail	9/8/16	11/3/16	12/1/16	1/5/17	2/2/17	3/2/17
Alster	Ellen	Pima County - Landscape	520-724-6655	<a href="mailto:ellen.alster@pima.gov">ellen.alster@pima.gov</a>	X					
Bennett	Paul	Pima County - Project Manager	520-724-6408	<a href="mailto:paul.bennett@pima.gov">paul.bennett@pima.gov</a>	X					
Brichta	Carol	Pima County - Public Relations	520-724-3410	<a href="mailto:carol.brichta@pima.gov">carol.brichta@pima.gov</a>	X					
Caccavale	Sal	Pima County - Transportation		<a href="mailto:sal.caccavale@pima.gov">sal.caccavale@pima.gov</a>	X					
Cunningham	Jim	Pima County - Construction	520-724-2814	<a href="mailto:jim.cunningham@pima.gov">jim.cunningham@pima.gov</a>	X					
Ellis	Rick	Pima County - Transportation	520-724-6385	<a href="mailto:rick.ellis@pima.gov">rick.ellis@pima.gov</a>						
Flores	Roy	Pima County - RWRD	520-724-6872	<a href="mailto:rogerio.flores@pima.gov">rogerio.flores@pima.gov</a>	X					
de la Garza	Xavier	Pima County - Transportation	520-724-6489	<a href="mailto:xavier.delagarza@pima.gov">xavier.delagarza@pima.gov</a>						
Johnson	Robert	Pima County - Utilities	520-724-6461	<a href="mailto:robert.johnson4@pima.gov">robert.johnson4@pima.gov</a>						
Milliken	Ian	Pima County - Cultural Resources	520-724-6684	<a href="mailto:ian.milliken@pima.gov">ian.milliken@pima.gov</a>	X					
Moore	Mike	Pima County - Traffic	520-724-2845	<a href="mailto:mike.moore@pima.gov">mike.moore@pima.gov</a>	X					
Moynihan	Ann	Pima County - Flood Control	520-243-1800	<a href="mailto:ann.moynihan@pima.gov">ann.moynihan@pima.gov</a>						
Roberts	Ted	Pima County - Utilities	520-724-6367	<a href="mailto:ted.roberts@pima.gov">ted.roberts@pima.gov</a>						
Reeve-Wise	Karla	Pima County - Environmental	520-724-6963	<a href="mailto:karla.reeve-wise@pima.gov">karla.reeve-wise@pima.gov</a>	X					
Rust	Mandley	Pima County - PMO	520-724-9982	<a href="mailto:mandley.rust@pima.gov">mandley.rust@pima.gov</a>	X					
Satterly	Bill	Pima County - Real Property	520-724-6318	<a href="mailto:bill.satterly@pima.gov">bill.satterly@pima.gov</a>	X					
Strickler	Bill	Pima County - Traffic		<a href="mailto:william.strickler@pima.gov">william.strickler@pima.gov</a>	X					
Tremblay	Dan	Pima County - Survey	520-724-2629	<a href="mailto:daniel.tremblay@pima.gov">daniel.tremblay@pima.gov</a>	X					
Underwood	Gary	Pima County - Utilities	520-724-6438	<a href="mailto:gary.underwood@pima.gov">gary.underwood@pima.gov</a>						
Bondy	Matt	ADOT - Project Manager	602-712-6961	<a href="mailto:mbondy.consultant@azdot.gov">mbondy.consultant@azdot.gov</a>	X					
Karasz	Sarah	ADOT - Environmental Planner	520-388-4250	<a href="mailto:skarasz@azdot.gov">skarasz@azdot.gov</a>						
Hunter	Tish	ADOT - Environmental Planner	520-388-4202	<a href="mailto:phunter@azdot.gov">phunter@azdot.gov</a>	X					
Malloque	Lou	ADOT - Right-of-Way	602-712-8755	<a href="mailto:malloque@azdot.gov">malloque@azdot.gov</a>						

Last Name	First Name	Organization	Phone	E-Mail	9/8/16	11/3/16	12/1/16	1/5/17	2/2/17	3/2/17
Angel	Alejandro	Psomas - Traffic	520-292-2300	<a href="mailto:aangel@psomas.com">aangel@psomas.com</a>						
Ashby	Matt	Psomas - Roadway	520-292-2300	<a href="mailto:matt.ashby@psomas.com">matt.ashby@psomas.com</a>	X					
Daly	Mike	Psomas - Drainage	520-292-2300	<a href="mailto:mdaly@psomas.com">mdaly@psomas.com</a>	X					
Denehy	Darlene	Psomas - Traffic	520-292-2300	<a href="mailto:ddenehy@psomas.com">ddenehy@psomas.com</a>						
Gomez	Ernie	Psomas - Survey	520-292-2300	<a href="mailto:egomez@psomas.com">egomez@psomas.com</a>						
Letendre	Kevin	Psomas - Utilities	520-292-2300	<a href="mailto:kletendre@psomas.com">kletendre@psomas.com</a>						
McGarrity	Pat	Psomas - Survey	520-292-2300	<a href="mailto:pmcgarrity@psomas.com">pmcgarrity@psomas.com</a>	X					
Remme	Chelsi	Psomas - Utilities	520-292-2300	<a href="mailto:chelsi.remme@psomas.com">chelsi.remme@psomas.com</a>						
Schoen	Michael	Psomas - Roadway	520-292-2300	<a href="mailto:michael.schoen@psomas.com">michael.schoen@psomas.com</a>	X					
Smith	Bob	Psomas - Traffic	520-292-2300	<a href="mailto:rsmith@psomas.com">rsmith@psomas.com</a>						
Thornton	Kevin	Psomas - Project Manager	520-292-2300	<a href="mailto:kthornton@psomas.com">kthornton@psomas.com</a>	X					
Blair	Patrick	EcoPlan	520-624-4326	<a href="mailto:pblair@ecoplanaz.com">pblair@ecoplanaz.com</a>	X					
Dawson	Mike	EcoPlan	520-624-4326	<a href="mailto:mdawson@ecoplanaz.com">mdawson@ecoplanaz.com</a>						
Showalter	Darlene	McGann	520-297-9540	<a href="mailto:dshowalter@mcgannland.com">dshowalter@mcgannland.com</a>						
Harris	JB	SCE Engineering	435-512-2046	<a href="mailto:joseph@sce.engineering">joseph@sce.engineering</a>	X					
Schlesinger	Bill	SCE Engineering	520-405-7353	<a href="mailto:bill@sce.engineering">bill@sce.engineering</a>	X					

# Arizona Environmental Online Review Tool Report



## *Arizona Game and Fish Department Mission*

*To conserve Arizona's diverse wildlife resources and manage for safe, compatible outdoor recreation opportunities for current and future generations.*

### **Project Name:**

Kolb Rd.: Sabino Canyon Road to Sunrise Drive

### **User Project Number:**

16-591

### **Project Description:**

This project consists of widening approximately 1.9 miles of Kolb Road from an existing two lane roadway to a three lane roadway between Sabino Canyon and Sunrise Drive. The roadway will contain multi-use lanes, drainage, landscaping, neighborhood screening and noise mitigation. The median will be a two-way left turn lane. Other potential improvements include provisions for bicyclists and pedestrians.

### **Project Type:**

Transportation & Infrastructure, Roadway Maintenance (including staging areas), Repaving, ditch cleaning, culvert maintenance, etc.

### **Contact Person:**

Thomas Ashbeck

### **Organization:**

EcoPlan Associates, Inc.

### **On Behalf Of:**

CONSULTING

### **Project ID:**

HGIS-04426

***Please review the entire report for project type and/or species recommendations for the location information entered. Please retain a copy for future reference.***

**Disclaimer:**

1. This Environmental Review is based on the project study area that was entered. The report must be updated if the project study area, location, or the type of project changes.
2. This is a preliminary environmental screening tool. It is not a substitute for the potential knowledge gained by having a biologist conduct a field survey of the project area. This review is also not intended to replace environmental consultation (including federal consultation under the Endangered Species Act), land use permitting, or the Departments review of site-specific projects.
3. The Departments Heritage Data Management System (HDMS) data is not intended to include potential distribution of special status species. Arizona is large and diverse with plants, animals, and environmental conditions that are ever changing. Consequently, many areas may contain species that biologists do not know about or species previously noted in a particular area may no longer occur there. HDMS data contains information about species occurrences that have actually been reported to the Department. Not all of Arizona has been surveyed for special status species, and surveys that have been conducted have varied greatly in scope and intensity. Such surveys may reveal previously undocumented population of species of special concern.
4. HabiMap Arizona data, specifically Species of Greatest Conservation Need (SGCN) under our State Wildlife Action Plan (SWAP) and Species of Economic and Recreational Importance (SERI), represent potential species distribution models for the State of Arizona which are subject to ongoing change, modification and refinement. The status of a wildlife resource can change quickly, and the availability of new data will necessitate a refined assessment.

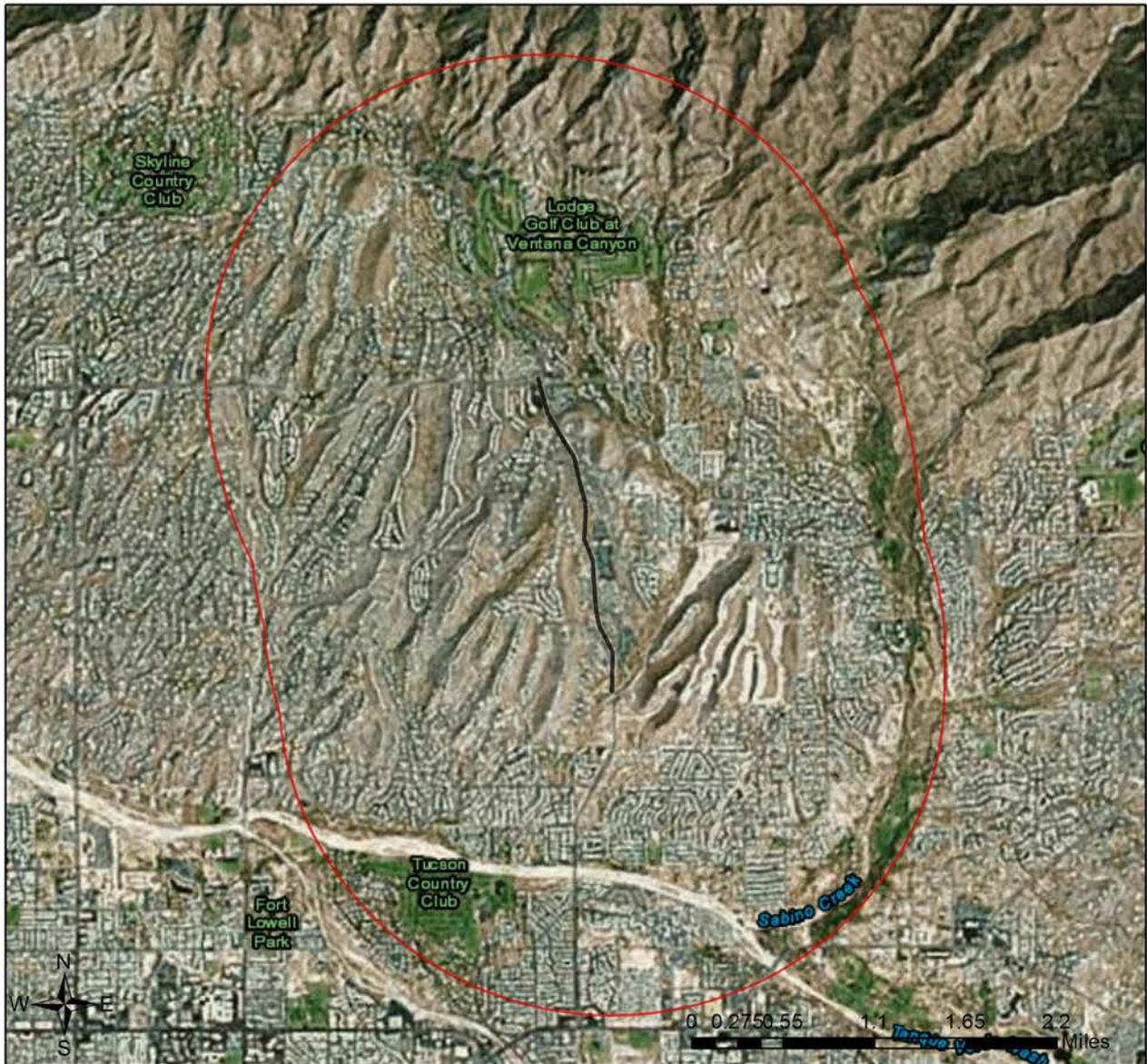
**Locations Accuracy Disclaimer:**

Project locations are assumed to be both precise and accurate for the purposes of environmental review. The creator/owner of the Project Review Report is solely responsible for the project location and thus the correctness of the Project Review Report content.

**Recommendations Disclaimer:**

1. The Department is interested in the conservation of all fish and wildlife resources, including those species listed in this report and those that may have not been documented within the project vicinity as well as other game and nongame wildlife.
2. Recommendations have been made by the Department, under authority of Arizona Revised Statutes Title 5 (Amusements and Sports), 17 (Game and Fish), and 28 (Transportation).
3. Potential impacts to fish and wildlife resources may be minimized or avoided by the recommendations generated from information submitted for your proposed project. These recommendations are preliminary in scope, designed to provide early considerations on all species of wildlife.
4. Making this information directly available does not substitute for the Department's review of project proposals, and should not decrease our opportunity to review and evaluate additional project information and/or new project proposals.
5. Further coordination with the Department requires the submittal of this Environmental Review Report with a cover letter and project plans or documentation that includes project narrative, acreage to be impacted, how construction or project activity(s) are to be accomplished, and project locality information (including site map). Once AGFD had received the information, please allow 30 days for completion of project reviews. Send requests to:  
**Project Evaluation Program, Habitat Branch**  
**Arizona Game and Fish Department**  
**5000 West Carefree Highway**  
**Phoenix, Arizona 85086-5000**  
**Phone Number: (623) 236-7600**  
**Fax Number: (623) 236-7366**  
**Or**  
[PEP@azgfd.gov](mailto:PEP@azgfd.gov)
6. Coordination may also be necessary under the National Environmental Policy Act (NEPA) and/or Endangered Species Act (ESA). Site specific recommendations may be proposed during further NEPA/ESA analysis or through coordination with affected agencies

## Kolb Rd.: Sabino Canyon Road to Sunrise Drive Aerial Image Basemap With Locator Map



- Project Boundary
- Buffered Project Boundary

Project Size (acres): 13.69

Lat/Long (DD): 32.2899 / -110.8386

County(s): Pima

AGFD Region(s): Tucson

Township/Range(s): T13S, R15E

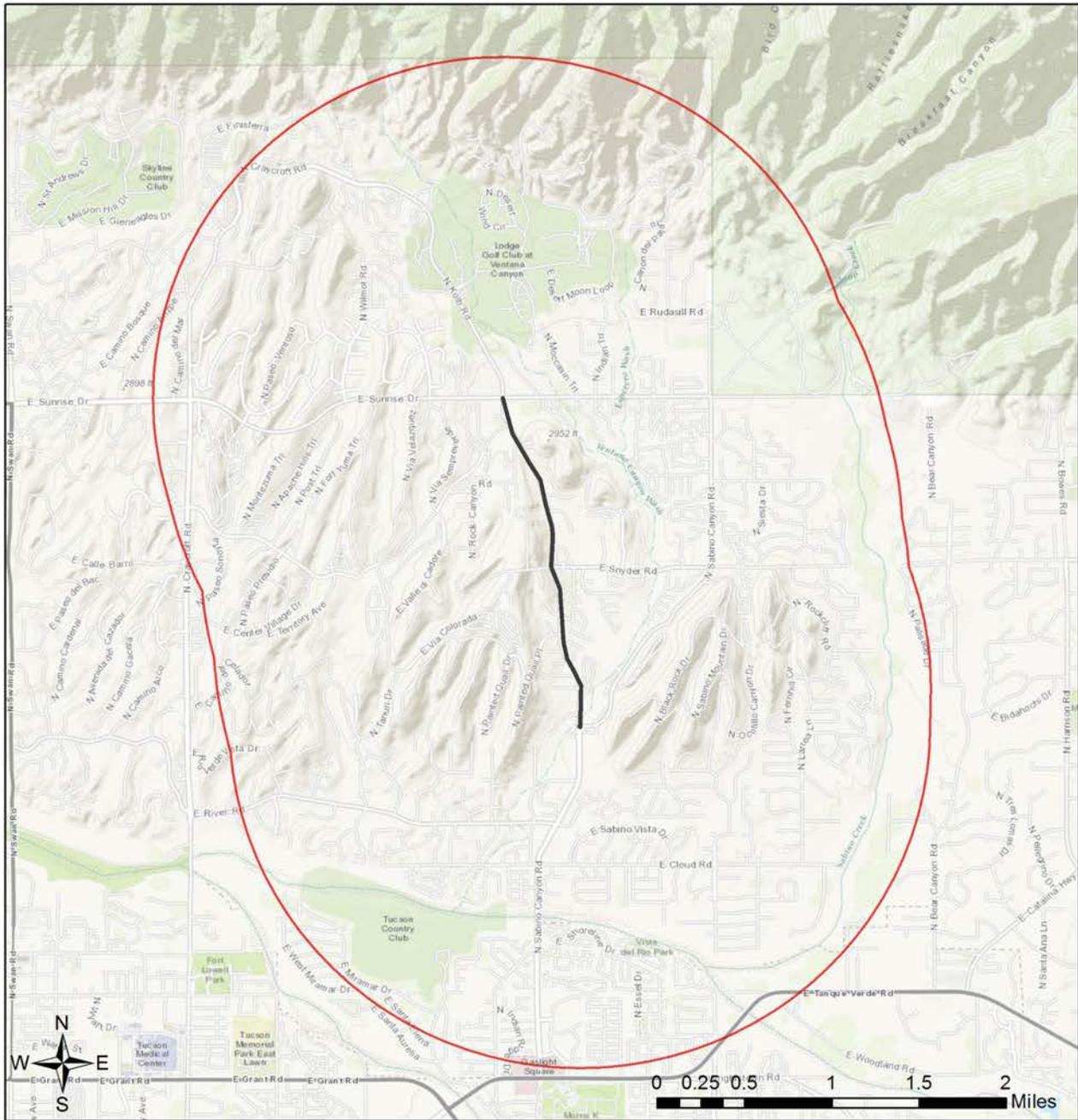
USGS Quad(s): SABINO CANYON

Service Layer Credits: Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong),



# Kolb Rd.: Sabino Canyon Road to Sunrise Drive

## Web Map As Submitted By User



-  Project Boundary
-  Buffered Project Boundary

Project Size (acres): 13.69

Lat/Long (DD): 32.2899 / -110.8386

County(s): Pima

AGFD Region(s): Tucson

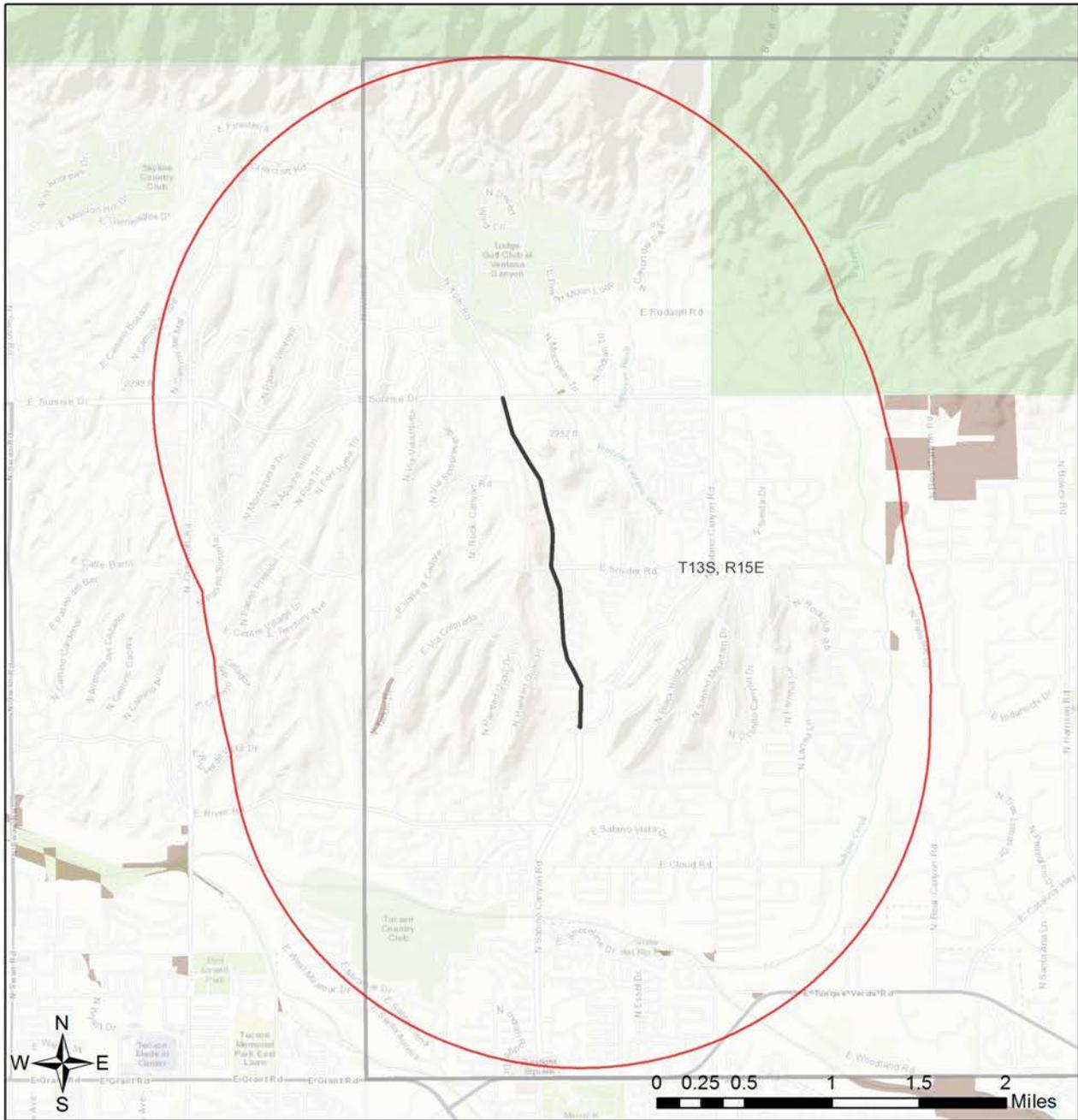
Township/Range(s): T13S, R15E

USGS Quad(s): SABINO CANYON

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

## Kolb Rd.: Sabino Canyon Road to Sunrise Drive

### Topo Basemap With Township/Ranges and Land Ownership



- |                           |                          |
|---------------------------|--------------------------|
| Project Boundary          | Mixed/Other              |
| Buffered Project Boundary | National Park/Mon.       |
| Township/Ranges           | Private                  |
| AZ Game and Fish Dept.    | State and Regional Parks |
| BLM                       | State Trust              |
| BOR                       | US Forest Service        |
| Indian Res.               | Wildlife Area/Refuge     |
| Military                  |                          |

Project Size (acres): 13.69  
 Lat/Long (DD): 32.2899 / -110.8386  
 County(s): Pima  
 AGFD Region(s): Tucson  
 Township/Range(s): T13S, R15E  
 USGS Quad(s): SABINO CANYON

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

**Special Status Species and Special Areas Documented within 2 Miles of Project Vicinity**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Abutilon parishii	Pima Indian Mallow	SC	S	S	SR	
Argia sabino	Sabino Canyon Dancer	SC	S			
Aspidoscelis stictogramma	Giant Spotted Whiptail	SC	S			1B
Bat Colony						
CH for Gila intermedia	Gila Chub Designated Critical Habitat					
CH for Strix occidentalis lucida	Mexican Spotted Owl Designated Critical Habitat					
Choeronycteris mexicana	Mexican Long-tongued Bat	SC	S	S		1C
Gila intermedia	Gila Chub	LE				1A
Glaucidium brasilianum cactorum	Cactus Ferruginous Pygmy-owl	SC	S	S		1B
Gopherus morafkai	Sonoran Desert Tortoise	CCA	S			1A
Heloderma suspectum suspectum	Reticulate Gila Monster					1A
Lasiurus blossevillii	Western Red Bat		S			1B
Lasiurus xanthinus	Western Yellow Bat		S			1B
Notholaena lemmonii	Lemmon Cloak Fern	SC				
Nyctinomops macrotis	Big Free-tailed Bat	SC				
Opuntia versicolor	Stag-horn Cholla					SR
Tanque Verde Wash/Sabino Canyon IBA						
Tumamoca macdougalii	Tumamoc Globeberry		S	S		SR

Note: Status code definitions can be found at <https://www.azgfd.com/wildlife/planning/wildlifeguidelines/statusdefinitions/>

**Species of Greatest Conservation Need  
 Predicted within Project Vicinity based on Predicted Range Models**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Aix sponsa	Wood Duck					1B
Amazilia violiceps	Violet-crowned Hummingbird		S			1B
Ammodramus savannarum perpallidus	Western Grasshopper Sparrow					1B
Ammospermophilus harrisi	Harris' Antelope Squirrel					1B
Anaxyrus retiformis	Sonoran Green Toad			S		1B
Anthus spragueii	Sprague's Pipit	C*				1A
Antrostomus ridgwayi	Buff-collared Nightjar		S			1B
Aquila chrysaetos	Golden Eagle	BGA		S		1B
Aspidoscelis flagellicauda	Gila Spotted Whiptail					1B
Aspidoscelis stictogramma	Giant Spotted Whiptail	SC	S			1B
Athene cucularia hypugaea	Western Burrowing Owl	SC	S	S		1B
Botaurus lentiginosus	American Bittern					1B
Buteo regalis	Ferruginous Hawk	SC		S		1B

**Species of Greatest Conservation Need  
 Predicted within Project Vicinity based on Predicted Range Models**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
<i>Chilomeniscus stramineus</i>	Variable Sandsnake					1B
<i>Coccyzus americanus</i>	Yellow-billed Cuckoo (Western DPS)	LT	S			1A
<i>Colaptes chrysoides</i>	Gilded Flicker			S		1B
<i>Coluber bilineatus</i>	Sonoran Whipsnake					1B
<i>Corynorhinus townsendii pallescens</i>	Pale Townsend's Big-eared Bat	SC	S	S		1B
<i>Crotalus cerberus</i>	Arizona Black Rattlesnake					1B
<i>Crotalus tigris</i>	Tiger Rattlesnake					1B
<i>Cynanthus latirostris</i>	Broad-billed Hummingbird		S			1B
<i>Cynomys ludovicianus</i>	Black-tailed Prairie Dog	SC		S		1A
<i>Cyprinodon eremus</i>	Quitobaquito Pupfish	LE				1A
<i>Cyprinodon macularius</i>	Desert Pupfish	LE				1A
<i>Dipodomys spectabilis</i>	Banner-tailed Kangaroo Rat			S		1B
<i>Euderma maculatum</i>	Spotted Bat	SC	S	S		1B
<i>Eumops perotis californicus</i>	Greater Western Bonneted Bat	SC		S		1B
<i>Falco peregrinus anatum</i>	American Peregrine Falcon	SC	S	S		1A
<i>Gila intermedia</i>	Gila Chub	LE				1A
<i>Glaucidium brasilianum cactorum</i>	Cactus Ferruginous Pygmy-owl	SC	S	S		1B
<i>Glaucidium gnoma gnoma</i>	Northern Pygmy-owl					1B
<i>Gopherus morafkai</i>	Sonoran Desert Tortoise	CCA	S			1A
<i>Haliaeetus leucocephalus</i>	Bald Eagle	SC, BGA	S	S		1A
<i>Heloderma suspectum</i>	Gila Monster					1A
<i>Hypsiglena sp. nov.</i>	Hooded Nightsnake					1B
<i>Incilius alvarius</i>	Sonoran Desert Toad					1B
<i>Kinosternon sonoriense sonoriense</i>	Desert Mud Turtle			S		1B
<i>Lampornis clemenciae</i>	Blue-throated Hummingbird					1B
<i>Lasiurus blossevillii</i>	Western Red Bat		S			1B
<i>Lasiurus xanthinus</i>	Western Yellow Bat		S			1B
<i>Leopardus pardalis</i>	Ocelot	LE				1A
<i>Leptonycteris curasoae yerbabuena</i>	Lesser Long-nosed Bat	LE				1A
<i>Lepus alleni</i>	Antelope Jackrabbit					1B
<i>Lithobates yavapaiensis</i>	Lowland Leopard Frog	SC	S	S		1A
<i>Macrotus californicus</i>	California Leaf-nosed Bat	SC		S		1B
<i>Megascops trichopsis</i>	Whiskered Screech-owl		S			1B
<i>Melanerpes uropygialis</i>	Gila Woodpecker					1B
<i>Meleagris gallopavo mexicana</i>	Gould's Turkey		S			1B
<i>Melospiza lincolni</i>	Lincoln's Sparrow					1B
<i>Melospiza aberti</i>	Abert's Towhee		S			1B

**Species of Greatest Conservation Need  
 Predicted within Project Vicinity based on Predicted Range Models**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Micruroides euryxanthus	Sonoran Coralsnake					1B
Myiarchus tuberculifer	Dusky-capped Flycatcher					1B
Myiodynastes luteiventris	Sulphur-bellied Flycatcher		S			1B
Myotis occultus	Arizona Myotis	SC		S		1B
Myotis velifer	Cave Myotis	SC		S		1B
Myotis yumanensis	Yuma Myotis	SC				1B
Nyctinomops femorosaccus	Pocketed Free-tailed Bat					1B
Odocoileus virginianus	White-tailed Deer					1B
Ovis canadensis nelsoni	Desert Bighorn Sheep					1B
Panthera onca	Jaguar	LE				1A
Passerculus sandwichensis	Savannah Sparrow					1B
Perognathus amplus	Arizona Pocket Mouse					1B
Peucaea botterii arizonae	Arizona Botteri's Sparrow			S		1B
Peucaea carpalis	Rufous-winged Sparrow					1B
Phrynosoma solare	Regal Horned Lizard					1B
Picoides arizonae	Arizona Woodpecker		S			1B
Poeciliopsis occidentalis occidentalis	Gila Topminnow	LE				1A
Progne subis hesperia	Desert Purple Martin			S		1B
Sciurus arizonensis	Arizona Gray Squirrel					1B
Setophaga petechia	Yellow Warbler					1B
Strix occidentalis lucida	Mexican Spotted Owl	LT				1A
Tadarida brasiliensis	Brazilian Free-tailed Bat					1B
Terrapene ornata	Ornate Box Turtle					1A
Thomomys umbrinus intermedius	Southern Pocket Gopher					1B
Troglodytes pacificus	Pacific Wren					1B
Vireo bellii arizonae	Arizona Bell's Vireo					1B
Vulpes macrotis	Kit Fox					1B

**Species of Economic and Recreation Importance Predicted within Project Vicinity**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Callipepla gambelii	Gambel's Quail					
Cyrtonyx montezumae	Montezuma Quail					1C
Odocoileus hemionus	Mule Deer					
Odocoileus virginianus	White-tailed Deer					1B
Ovis canadensis mexicana	Mexicana Desert Bighorn Sheep					1B
Pecari tajacu	Javelina					
Puma concolor	Mountain Lion					
Zenaida asiatica	White-winged Dove					

### Species of Economic and Recreation Importance Predicted within Project Vicinity

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Zenaida macroura	Mourning Dove					

**Project Type: Transportation & Infrastructure, Roadway Maintenance (including staging areas), Repaving, ditch cleaning, culvert maintenance, etc.**

#### Project Type Recommendations:

During the planning stages of your project, please consider the local or regional needs of wildlife in regards to movement, connectivity, and access to habitat needs. Loss of this permeability prevents wildlife from accessing resources, finding mates, reduces gene flow, prevents wildlife from re-colonizing areas where local extirpations may have occurred, and ultimately prevents wildlife from contributing to ecosystem functions, such as pollination, seed dispersal, control of prey numbers, and resistance to invasive species. In many cases, streams and washes provide natural movement corridors for wildlife and should be maintained in their natural state. Uplands also support a large diversity of species, and should be contained within important wildlife movement corridors. In addition, maintaining biodiversity and ecosystem functions can be facilitated through improving designs of structures, fences, roadways, and culverts to promote passage for a variety of wildlife. Guidelines for many of these can be found at: <https://www.azgfd.com/wildlife/planning/wildlifeguidelines/>.

Minimize potential introduction or spread of exotic invasive species. Invasive species can be plants, animals (exotic snails), and other organisms (e.g., microbes), which may cause alteration to ecological functions or compete with or prey upon native species and can cause social impacts (e.g., livestock forage reduction, increase wildfire risk). The terms noxious weed or invasive plants are often used interchangeably. Precautions should be taken to wash all equipment utilized in the project activities before leaving the site. Arizona has noxious weed regulations (Arizona Revised Statutes, Rules R3-4-244 and R3-4-245). See Arizona Department of Agriculture website for restricted plants, <https://agriculture.az.gov/>. Additionally, the U.S. Department of Agriculture has information regarding pest and invasive plant control methods including: pesticide, herbicide, biological control agents, and mechanical control, <http://www.usda.gov/wps/portal/usdahome>. The Department regulates the importation, purchasing, and transportation of wildlife and fish (Restricted Live Wildlife), please refer to the hunting regulations for further information <https://www.azgfd.com/hunting/regulations>.

Follow manufacturer's recommended application guidelines for all chemical treatments. The U.S. Fish and Wildlife Service, Region 2, Environmental Contaminants Program has a reference document that serves as their regional pesticide recommendations for protecting wildlife and fisheries resources, titled "Recommended Protection Measures for Pesticide Applications in Region 2 of the USFWS", [http://www.fws.gov/southwest/es/arizona/Documents/ECReports/RPMPA\\_2007.pdf](http://www.fws.gov/southwest/es/arizona/Documents/ECReports/RPMPA_2007.pdf). The Department recommends that direct or indirect impacts to sensitive species and their forage base from the application of chemical pesticides or herbicides be considered carefully.

The Department recommends that wildlife surveys are conducted to determine if noise-sensitive species occur within the project area. Avoidance or minimization measures could include conducting project activities outside of breeding seasons.

Design culverts to minimize impacts to channel geometry, or design channel geometry (low flow, overbank, floodplains) and substrates to carry expected discharge using local drainages of appropriate size as templates. Reduce/minimize barriers to allow movement of amphibians or fish (e.g., eliminate falls). Also for terrestrial wildlife, washes and stream corridors often provide important corridors for movement. Overall culvert width, height, and length should be optimized for movement of the greatest number and diversity of species expected to utilize the passage. Culvert designs should consider moisture, light, and noise, while providing clear views at both ends to maximize utilization. For many species, fencing is an important design feature that can be utilized with culverts to funnel wildlife into these areas and minimize the potential for roadway collisions. Guidelines for culvert designs to facilitate wildlife passage can be found on the home page of this application at <https://www.azgfd.com/wildlife/planning/wildlifeguidelines/>.

**Project Location and/or Species Recommendations:**

HDMS records indicate that one or more native plants listed on the Arizona Native Plant Law and Antiquities Act have been documented within the vicinity of your project area. Please contact:

Arizona Department of Agriculture  
1688 W Adams St.  
Phoenix, AZ 85007  
Phone: 602.542.4373

<https://agriculture.az.gov/environmental-services/np1>

HDMS records indicate that one or more listed, proposed, or candidate species or Critical Habitat (Designated or Proposed) have been documented in the vicinity of your project. The Endangered Species Act (ESA) gives the US Fish and Wildlife Service (USFWS) regulatory authority over all federally listed species. Please contact USFWS Ecological Services Offices at <http://www.fws.gov/southwest/es/arizona/> or:

**Phoenix Main Office**

2321 W. Royal Palm Rd, Suite 103  
Phoenix, AZ 85021  
Phone: 602-242-0210  
Fax: 602-242-2513

**Tucson Sub-Office**

201 N. Bonita Suite 141  
Tucson, AZ 85745  
Phone: 520-670-6144  
Fax: 520-670-6155

**Flagstaff Sub-Office**

SW Forest Science Complex  
2500 S. Pine Knoll Dr.  
Flagstaff, AZ 86001  
Phone: 928-556-2157  
Fax: 928-556-2121

HDMS records indicate that Sonoran Desert Tortoise have been documented within the vicinity of your project area. Please review the Tortoise Handling Guidelines found at: <https://www.azgfd.com/wildlife/nongamemanagement/tortoise/>

The analysis has detected one or more Important Bird Areas within your project vicinity. Please see [http://aziba.org/?page\\_id=38](http://aziba.org/?page_id=38) for details about the Important Bird Area(s) identified in the report.



## United States Department of the Interior



### FISH AND WILDLIFE SERVICE

Arizona Ecological Services Field Office

9828 NORTH 31ST AVE, #C3

PHOENIX, AZ 85051

PHONE: (602)242-0210 FAX: (602)242-2513

URL: [www.fws.gov/southwest/es/arizona/](http://www.fws.gov/southwest/es/arizona/);

[www.fws.gov/southwest/es/EndangeredSpecies\\_Main.html](http://www.fws.gov/southwest/es/EndangeredSpecies_Main.html)

Consultation Code: 02EAAZ00-2017-SLI-0054

November 02, 2016

Event Code: 02EAAZ00-2017-E-00078

Project Name: Kolb Road: Sabino Canyon Road to Sunrise Drive

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

#### To Whom It May Concern:

The Fish and Wildlife Service (Service) is providing this list under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). The list you have generated identifies threatened, endangered, proposed, and candidate species, and designated and proposed critical habitat, that *may* occur within one or more delineated United States Geological Survey 7.5 minute quadrangles with which your project polygon intersects. Each quadrangle covers, at minimum, 49 square miles. Please refer to the species information links found at [http://www.fws.gov/southwest/es/arizona/Docs\\_Species.htm](http://www.fws.gov/southwest/es/arizona/Docs_Species.htm) or <http://www.fws.gov/southwest/es/arizona/Documents/MiscDocs/AZSpeciesReference.pdf> for a quick reference, to determine if suitable habitat for the species on your list occurs in your project area.

The purpose of the Act is to provide a means whereby threatened and endangered species and the habitats upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of Federal trust resources and to determine whether projects may affect federally listed species and/or designated critical habitat. A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If the Federal action agency determines that listed species or critical habitat *may be affected* by a federally funded, permitted or authorized activity, the agency must consult with us pursuant to 50 CFR 402. Note that a "may affect" determination includes effects that may not be adverse and that may be beneficial, insignificant, or discountable. An effect exists even if only one individual or habitat segment may be affected. The effects analysis should include the entire action area, which often extends well outside the project boundary or "footprint" (e.g., downstream). If the Federal action agency determines that the action may jeopardize a *proposed* species or adversely modify *proposed* critical habitat, the agency must enter into a section 7 conference. The agency may choose to confer with us on an action that may affect proposed species or critical habitat.

Candidate species are those for which there is sufficient information to support a proposal for listing. Although candidate species have no legal protection under the Act, we recommend that they be considered in the planning process in the event they become proposed or listed prior to project completion. More information on the regulations (50 CFR 402) and procedures for section 7 consultation, including the role of permit or license applicants, can be found in our Endangered Species Consultation Handbook at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>.

In addition to species listed under the Act, we advise you to consider species protected under the Migratory Bird Treaty Act (MBTA) (16 U.S.C. 703-712) and the Bald and Golden Eagle Protection Act (BGEPA) (16 U.S.C. 668 *et seq.*). Both laws prohibit the take of covered species. The list of MBTA-protected birds is in 50 CFR 10.13 (for an alphabetical list see <http://www.fws.gov/migratorybirds/RegulationsPolicies/mbta/MBTANDX.HTML>). The Service's Division of Migratory Birds is the lead for consultations under these laws (Southwest Regional Office phone number: 505/248-7882). For more information regarding the MBTA, BGEPA, and permitting processes, please visit the following web site:

<http://www.fws.gov/migratorybirds/mbpermits.html>. Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g. cellular, digital television, radio, and emergency broadcast) can be found at:

<http://www.fws.gov/southwest/es/arizona/CellTower.htm>

Although bald eagles (*Haliaeetus leucocephalus*) are no longer listed under the Act, they are protected under both the BGEPA and the MBTA. If a bald eagle nest occurs in or near the proposed project area, our office should be contacted. An evaluation must be performed to determine whether the project is likely to disturb nesting bald eagles (see <http://www.fws.gov/southeast/es/baldeagle/>) and the Division of Migratory Birds consulted if necessary. The National Bald Eagle Management Guidelines provide recommendations to minimize potential project impacts to bald eagles (see <http://www.fws.gov/midwest/eagle/pdf/NationalBaldEagleManagementGuidelines.pdf>).

Activities that involve streams and/or wetlands are regulated by the U.S. Army Corps of Engineers (Corps). We recommend that you contact the Corps to determine their interest in proposed projects in these areas. For activities within a National Wildlife Refuge, we recommend that you contact refuge staff for specific information about refuge resources.

If your action is on Indian land or has implications for off-reservation tribal interests, we encourage you to contact the tribe(s) and the Bureau of Indian Affairs (BIA) to discuss potential

tribal concerns, and to invite any affected tribe and the BIA to participate in the section 7 consultation. In keeping with our tribal trust responsibility, we will notify tribes that may be affected by proposed actions when section 7 consultation is initiated. For more information, please contact our tribal coordinator, John Nystedt, at (928) 556-2160 or [John\\_Nystedt@fws.gov](mailto:John_Nystedt@fws.gov).

The State of Arizona protects some species not protected by Federal law. We recommend you contact the Arizona Game and Fish Department (AGFD) for animals and Arizona Department of Agriculture for plants to determine if species protected by or of concern to the State may occur in your action area. The AGFD has an Environmental Review On-Line Tool that can be accessed at <http://www.azgfd.gov/hgis/>. We also recommend that you coordinate with the AGFD regarding your project.

For additional communications regarding this project, please refer to the consultation Tracking Number in the header of this letter. We appreciate your concern for threatened and endangered species. If we may be of further assistance, please contact Brenda Smith at 928/556-2157 for projects in Northern Arizona, our general Phoenix number (602/242-0210) for central Arizona, or Jean Calhoun at 520/670-6150 (x223) for projects in southern Arizona.

Sincerely,

/s/

Steven L. Spangle

Field Supervisor

Attachment



United States Department of Interior  
Fish and Wildlife Service

Project name: Kolb Road: Sabino Canyon Road to Sunrise Drive

## Official Species List

### Provided by:

Arizona Ecological Services Field Office

9828 NORTH 31ST AVE

#C3

PHOENIX, AZ 85051

(602) 242-0210

<http://www.fws.gov/southwest/es/arizona/>

[http://www.fws.gov/southwest/es/EndangeredSpecies\\_Main.html](http://www.fws.gov/southwest/es/EndangeredSpecies_Main.html)

**Consultation Code:** 02EAAZ00-2017-SLI-0054

**Event Code:** 02EAAZ00-2017-E-00078

**Project Type:** TRANSPORTATION

**Project Name:** Kolb Road: Sabino Canyon Road to Sunrise Drive

**Project Description:** This project consists of widening approximately 1.9 miles of Kolb Road from an existing two lane roadway to a three lane roadway between Sabino Canyon and Sunrise Drive. The roadway will contain multi-use lanes, drainage, landscaping, neighborhood screening and noise mitigation. The median will be a two-way left turn lane. Other potential improvements include provisions for bicyclists and pedestrians.

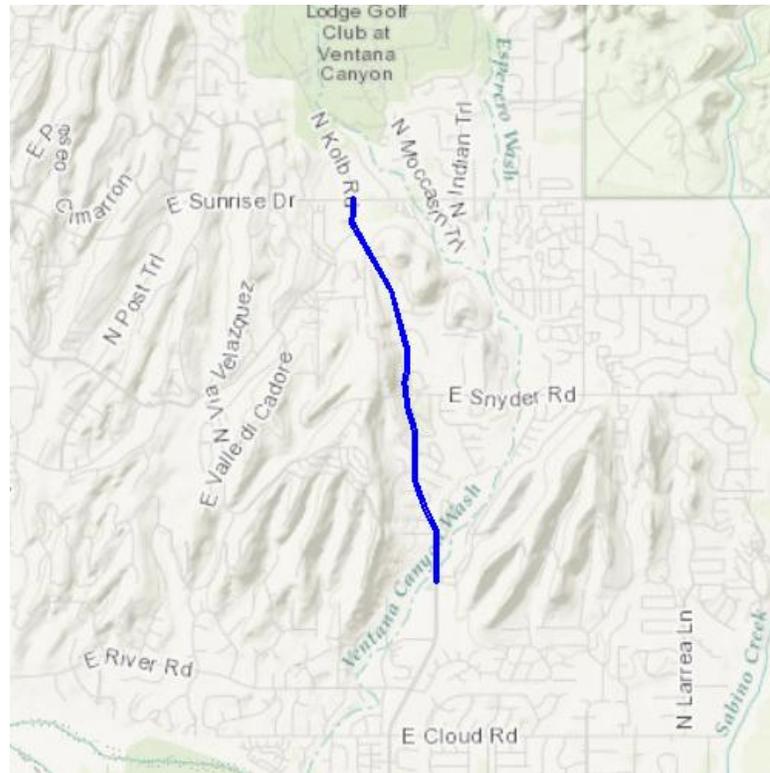
**Please Note:** The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.



United States Department of Interior  
Fish and Wildlife Service

Project name: Kolb Road: Sabino Canyon Road to Sunrise Drive

### Project Location Map:



**Project Coordinates:** The coordinates are too numerous to display here.

**Project Counties:** Pima, AZ



United States Department of Interior  
Fish and Wildlife Service

Project name: Kolb Road: Sabino Canyon Road to Sunrise Drive

## Endangered Species Act Species List

There are a total of 8 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Birds	Status	Has Critical Habitat	Condition(s)
California Least tern ( <i>Sterna antillarum browni</i> ) Population: Wherever found	Endangered		
Mexican Spotted owl ( <i>Strix occidentalis lucida</i> ) Population: Wherever found	Threatened	Final designated	
Yellow-Billed Cuckoo ( <i>Coccyzus americanus</i> ) Population: Western U.S. DPS	Threatened	Proposed	
<b>Fishes</b>			
Gila chub ( <i>Gila intermedia</i> ) Population: Wherever found	Endangered	Final designated	
<b>Mammals</b>			
jaguar ( <i>Panthera onca</i> ) Population: Wherever found	Endangered	Final designated	
Lesser Long-Nosed bat ( <i>Leptonycteris curasoae yerbabuena</i> ) Population: Wherever found	Endangered		



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Project name: Kolb Road: Sabino Canyon Road to Sunrise Drive

<b>Reptiles</b>			
Northern Mexican gartersnake <i>(Thamnophis eques megalops)</i> Population: Wherever found	Threatened	Proposed	
Sonoyta Mud turtle <i>(Kinosternon sonoriense longifemorale)</i> Population: Wherever found	Proposed Endangered		



United States Department of Interior  
Fish and Wildlife Service

Project name: Kolb Road: Sabino Canyon Road to Sunrise Drive

## **Critical habitats that lie within your project area**

There are no critical habitats within your project area.