



BOARD OF SUPERVISORS AGENDA ITEM REPORT
CONTRACTS / AWARDS / GRANTS

Requested Board Meeting Date: January 3, 2017

or Procurement Director Award ☐

Contractor/Vendor Name (DBA): Federal Highway Administration

Project Title/Description:

King Canyon Trailhead: Reimbursable Agreement

Purpose:

Provide funding match to the Federal Highway Administration Central Federal Lands Highway to perform scoping activities for the King Canyon Trailhead project.

Procurement Method:

N/A

Program Goals/Predicted Outcomes:

Sight distance improvements along Kinney Road at the King Canyon Trailhead parking area, including moving the entrance, slope improvements and other sight distance related items, and safety improvements.

Public Benefit:

Safety improvements to include sight distance improvements.

Metrics Available to Measure Performance:

N/A

Retroactive:

No

Original Information

Document Type: CT Department Code: TR Contract Number (i.e., 15-123): 17*231

Effective Date: 1/3/2017 Termination Date: 12/31/17 Prior Contract Number (Synergen/CMS): _____

☒ Expense Amount: \$ 5,000.00 ☐ Revenue Amount: \$ 0

Funding Source(s): HURF \$5,000.00

Cost to Pima County General Fund: 0

Contract is fully or partially funded with Federal Funds? ☐ Yes ☒ No ☐ Not Applicable to Grant Awards

Were insurance or indemnity clauses modified? ☐ Yes ☒ No ☐ Not Applicable to Grant Awards

Vendor is using a Social Security Number? ☐ Yes ☒ No ☐ Not Applicable to Grant Awards

If Yes, attach the required form per Administrative Procedure 22-73.

Amendment Information

Document Type: _____ Department Code: _____ Contract Number (i.e., 15-123): _____

Amendment No.: _____ AMS Version No.: _____

Effective Date: _____ New Termination Date: _____

☐ Expense ☐ Revenue ☐ Increase ☐ Decrease Amount This Amendment: \$ _____

Funding Source(s): _____

Cost to Pima County General Fund: _____

To: COB 12-19-16 (1)
Vers.: 3 PSS:

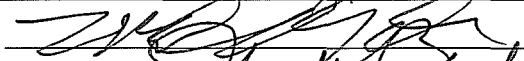
Procure Dept 12/19/16 HM09:29


DEC 19 16 HM09 45 PC CLK ET MD
123

Contact: Kathryn Skinner

Department: Transportation

Telephone: 724-6880

Department Director Signature/Date:  12/15/16

Deputy County Administrator Signature/Date:  12/16/16

County Administrator Signature/Date:  12/16/16

(Required for Board Agenda/Addendum Items)

**Federal Highway Administration
Federal Lands Highway
AGREEMENT**

DTFH68-17-E-00001

CONTRACT

NO. CT-TR-17-231

AMENDMENT NO. _____

This number must appear on all
invoices, correspondence and
documents pertaining to this
contract

PARTIES TO THE AGREEMENT

Reimbursing Organization	Organization to be Reimbursed
Pima County Department of Transportation, Traffic Engineering Division 1313 S. Mission Road, Bldg. #9 Tucson, AZ 85713	Federal Highway Administration Central Federal Lands Highway Division 12300 West Dakota Ave Lakewood, CO 80228
DUNS Number: 074477969 TIN: 86-6000543	DUNS Number: 126129936

POINTS OF CONTACT FOR THE AGREEMENT

Reimbursing Organization Finance Point of Contact	Organization to be Reimbursed Finance Point of Contact
Name: Michael Schaeffer Address: 130 W. Congress, 7 th Floor Tucson, AZ 85701 Phone: 520-724-7709 E-mail: Michael.Schaffer@pima.gov	Name: Suzanne Schmidt Address: 12300 West Dakota Ave Lakewood, CO 80228 Phone: 720-963-3356 E-mail: suzanne.schmidt@dot.gov
Reimbursing Organization Program Point of Contact	Organization to be Reimbursed Program Point of Contact
Name: Stephen Wilson Address: 1313 S. Mission Road, Bldg. #9 Tucson, AZ 85713 Phone: 520-724-5912 E-mail: Stephen.Wilson@pima.gov	Name: Ed Martinez Address: 12300 West Dakota Ave Lakewood, CO 80228 Phone: 720-963-3731 E-mail: edward.martinez@dot.gov

PERIOD OF PERFORMANCE

From: see date of signature below
To: December 31, 2017

LEGAL AUTHORITY

23 U.S.C. 201 and 204

TOTAL AGREEMENT AMOUNT

TOTAL AGREEMENT AMOUNT: **\$5,000**

PAYMENT TERMS AND SCHEDULE

EFT

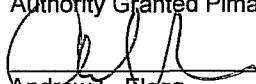
DESCRIPTION OF SUPPLIES, SERVICES, AND DELIVERABLES

See attached Reimbursable Agreement

AUTHORIZED APPROVALS

For Reimbursing Organization	For Organization to be Reimbursed
Signature _____ Date _____ Title Chair, Pima County Board of Supervisors Attest: _____ Clerk of the Board	Signature _____ Date _____ Title _____

Approved as to Form and within the Powers and
Authority Granted Pima County by Law:



Andrew L. Flagg
Deputy County Attorney

Statement of Work
Project: AZ FLAP 62(1) King Canyon Trailhead
Reimbursable Agreement No.: DTFH6817E00001
9/19/2016

- I. Introduction: Pima County will provide funding to the Federal Highway Administration, Central Federal Lands Highway Division (CFLHD) to perform scoping activities for the AZ FLAP 62(1) King Canyon Trailhead project. Pima County will be referred to as the Requesting Agency. CFLHD will be referred to as the Servicing Agency.
- II. Location: Pima County, AZ
- III. Work Required: The work required will include the development of a scoping summary, scoping report, and preliminary estimate for design, construction, and construction engineering to verify the scope and cost for the proposed project.

The scope of this project will include the sight distance improvements along Kinney Road at the King Canyon Trailhead parking area including moving the entrance, slope improvements, other sight distance related items, and safety improvements. Work will also include the expansion of the parking area by 25-30 spaces, concrete curbing, and minor drainage improvements.

This Agreement does not obligate (commit to the expenditure of) Federal funds for construction nor does it commit the parties to complete the project. This agreement documents the intent of the parties and commits the Requesting Agency to provide its share of eligible project costs. The Requesting Agency understands that any final decision as to design and construction will be made by the Programming Decisions Committee (PDC) after completion of the scoping effort and any environmental analysis required under the National Environmental Policy Act (NEPA). Any decision to proceed with the design and construction of the project will depend on the availability of appropriations and matching funds at the time of obligation and other factors, such as issues raised during the NEPA processes, a natural disaster that changes the need for the project, or a change in Congressional authorization.

- IV. Non-Federal Share of Costs: The estimated project costs for scoping are as follows:

PROJECT BUDGET			
Item	Estimated Cost	Comments	
Scoping	\$87,720	Total scoping costs are estimated to not exceed \$60k. The estimated cost is calculated based on \$5,000 limit for match.	
PROJECT FUNDING			
Funding Source	Estimated Funding	% of Total Project	Comments
Federal Lands Access Program	\$82,720	94.30%	
Pima County	\$5,000	5.70%	Cash Match

Statement of Work
Project: AZ FLAP 62(1) King Canyon Trailhead
Reimbursable Agreement No.: DTFH6817E00001
9/19/2016

Total	\$87,720		
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The Requesting Agency will provide non-federal local matching funds in the amount of 5.70% of the total Federal Lands Access Program eligible costs required to complete the work as shown above.

The Requesting Agency is not required to reimburse CFLHD for any costs incurred prior to the date of this Agreement.

- V. Period of Performance: All work associated with this agreement will be completed no later than December 31, 2017.
- VI. Technical Representative: Agreement Points of Contact for this Agreement are:

Ed Martinez
Project Manager
Central Federal Lands Highway Division
Federal Highway Administration, U.S. Department of Transportation
12300 West Dakota Avenue
Lakewood, CO 80228
(720) 963-3731
edward.martinez@dot.gov

Applicant Point of Contact

Stephen Wilson
Project Manager
Pima County, Department of Transportation
Traffic Engineering Division
1313 S. Mission Road, Bldg. #9
Tucson, AZ 85713
(520) 724-5912
Stephen.Wilson@pima.gov

- VII. Roles and Responsibilities

For scoping:

A. CFLHD will:

- 1) Conduct scoping field review;
- 2) Prepare a scoping documents necessary to verify scope and costs of project;
- 3) Provide the PDC scoping documents for consideration of placement in the final program of projects.; and
- 4) Manage the overall effort on this agreement regarding scope, schedule and budget in coordination with the Requesting Agency.

Statement of Work
Project: AZ FLAP 62(1) King Canyon Trailhead
Reimbursable Agreement No.: DTFH6817E00001
9/19/2016

B. Requesting Agency will:

- 1) Provide relevant documents regarding this project to CFLHD for use in project development;
- 2) Participate in the field scoping activities;
- 3) Review all scoping documents prepared by CFLHD; and
- 4) Provide funding as referenced in this document.

VIII. Financial Administration:

A. **Total Agreement Amount:**

Not to exceed \$5,000.

B. **Funding Citations:** 23 U.S.C. 201 and 204.

C. **Reimbursable Payment:**

CFLHD will invoice the Requesting Agency on a monthly basis in the amount of 5.70% of the total Federal Lands Access Program eligible costs expended for the project.

Regardless of the estimate, the Requesting Agency will provide the required match, as documented above in the Project Funding Table, of the total Federal Lands Access Program eligible costs expended on the project through construction contract completion, closeout, and resolution of any disputes, in an amount not to exceed that provide in this Agreement.

CFLHD is limited to recovery of the matching share of actual costs incurred, as reflected in the invoice provided by the CFLHD. CFLHD shall not incur costs which result in matching funds exceeding the maximum cost stated in this Agreement without authorization by the Requesting Agency in the form of written modification to this agreement.

Upon receipt of the invoice of costs incurred and authorized, the Requesting Agency will issue payment via one of the methods listed below.

D. **Method of Billing:**

CFLHD will bill the Requesting Agency, in accordance with the payment terms and schedule as agreed upon in the Agreement.

CFLHD requests that these payments be made through the US Treasury's website <https://pay.gov>. Pay.gov can be used to make secure electronic payments to any Federal Government Agencies via credit card or direct debit. Payment shall be submitted referencing the FHWA/CFLHD-ID Agreement Number: **DTFH6817E00001**

Statement of Work
Project: AZ FLAP 62(1) King Canyon Trailhead
Reimbursable Agreement No.: DTFH6817E00001
9/19/2016

Option 1 (Preferred Method)

- Plastic card or Automatic Clearing House Payment (ACH Direct Debit)
- Go to Treasury's website – <https://pay.gov>
- Search for Agency Name (Transportation Department)
- Select the appropriate Transportation Agency (Federal Highway Administration)
- Follow the form instructions to make your payment. Note, if making an ACH payment from your bank account, please select ACH Direct Debit as the payment type.

Option 2

- Mail check payment to the following address for Paper Check Conversion (PCC) processing:

Make Check Payable To:
DOT FHWA

Mailing Address:
Enterprise Service Center
Federal Aviation Administration
ATTN: AMZ-340, Mark Richardson
6500 S. MacArthur Blvd., HDQ Rm 285
Oklahoma City, OK 73169

- Notice to customers making payment by check:
 - Please notify Regina Monroe at 720-963-3460 or regina.monroe@dot.gov if mailing a check.
 - When you provide a check as payment you authorize us either to use information from your check to make a one-time electronic fund transfer from your account or to process the payment as a check transaction.
 - When we use information from your check to make an electronic fund transfer, funds may be withdrawn from your account as soon as the same day we receive your payment and you will not receive your check back from your financial institution.

Privacy Act- A Privacy Act Statement required by 5 U.S.C. § 552a(e)(3) stating our authority for soliciting and collecting the information from your check, and explaining the purposes and routine uses which will be made of your check information, is available on our internet site at (PCCOTC.GOV), or call toll free; at (1-800-624-137 to obtain a copy by mail. Furnishing the check information is voluntary, but a decision not to do so may require you to make payment by some other method.

- IX. Modifications: Any modifications to the Agreement must be made in writing and agreed to by both parties. Such modifications are not binding unless they are in writing and signed by

Statement of Work
Project: AZ FLAP 62(1) King Canyon Trailhead
Reimbursable Agreement No.: DTFH6817E00001
9/19/2016

personnel authorized to bind each of the agencies.

- X. Termination: This agreement will terminate upon the date specified in Section V or upon 30 calendar days after written notification to the other party. If this agreement is terminated by either party, the Requesting Agency's liability shall extend only to pay for its share of the actual and reasonable costs of the items/services rendered and the costs of any non-cancelable obligations incurred in accordance with the terms of this agreement prior to the effective date of termination. If this agreement is terminated by CFLHD its liability shall extend only to the release of its work products and related materials to the Requesting Agency by the effective date of termination.

Application Information

Project: AZ FLAP 62(1) King Canyon Trailhead

- Announcement
- Proposed Project Application
- Project Site Map
- Application Acceptance Letter

FEDERAL LANDS ACCESS PROGRAM

Arizona

The Federal Lands Access Program is a competitive, discretionary program for states, counties, tribes and local governments.

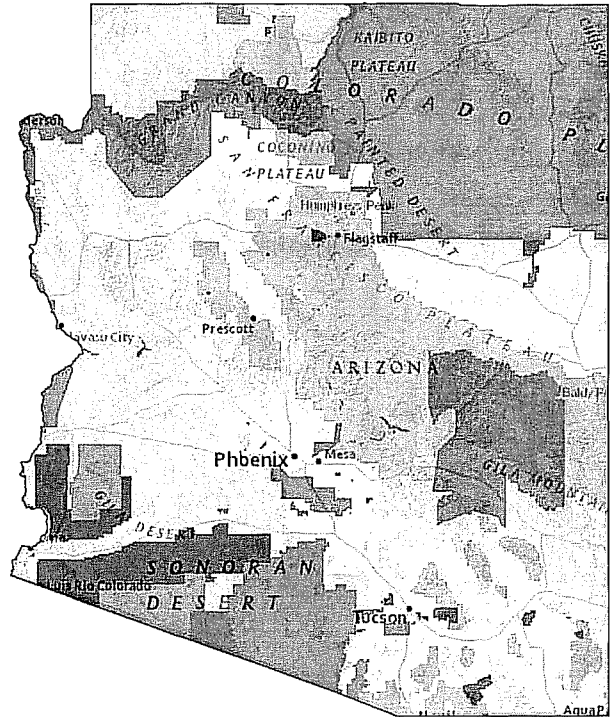
The program provides funds for transportation facilities that provide access to, or are located on or adjacent to Federal lands, with emphasis placed on facilities that improve access to *high use recreation sites* or *Federal economic generators*. The Federal lands access transportation facility must be owned or maintained by the state, tribe or local government.

Eligible projects include engineering, rehabilitation, restoration, construction, reconstruction, transportation planning, and research of Federal lands access transportation facilities.

AZ FLAP projects that have been selected and programmed for funding thus far included but are not limited to:

- Roadway reconstruction
- Pavement rehabilitation
- Bridge repair and reconstruction

- Forest Service
- Department of Defense
- Bureau of Land Management
- Fish and Wildlife Service
- National Park Service
- Bureau of Indian Affairs
- Bureau of Reclamation
- Other Agencies



PROGRAM FACTS

Annual Allocation ¹	\$13.5 Million
Advertised Program / Fiscal Years ²	\$45 - \$58 Million / FY19-FY22
Local Minimum Match Required ³	5.70%
Upcoming Call for Projects	April 18, 2016- July 15, 2016
AZ FLAP Website	www.flh.fhwa.dot.gov/programs/flap/az

2016 CALL FOR PROJECTS SCHEDULE

MONTH	April	May	June	July	August	September	October	November
PROGRAM DECISION COMMITTEE	Call for Project Applications			PDC scores and ranks applications	PDC selects short-list of applicants for development of project agreements, scoping, project delivery plan.		PDC final project selection meeting	Funded program announced
APPLICANT	Applications prepared and submitted				Short list of applications engaged in scoping			

1. Assumes 5-year Program.
2. Determined by Programming Decisions Committee (PDC) based on program needs and qualifying project applications submitted in Call for Projects.
3. Local match may include federal agency funds excluding *Title 23* or *Title 49* funds, with exception of the Federal Lands Transportation Program (FLTP) and Tribal that are Transportation Program (TTP) both eligible matching federal programs.



Arizona Federal Lands Access Program: Proposed Project Application

GENERAL INFORMATION

Project Points of Contact (POC):

	Applying Agency	Federal Land Management Agency(s)	
Agency Name:	Pima County	National Park Service	
POC Name:	Seth Chalmers	Jeremy Curtis	
POC Title:	Traffic Engineering Division Manager	Chief of Maintenance	
Address Line 1:	1313 S Mission Rd	3693 S. Old Spanish Trail	
Address Line 2:	Tucson, AZ 85713	Tucson, AZ 85730	
E-mail:	Seth.Chalmers@pima.gov	Jeremy_Curtis@nps.gov	
Phone #:	(520) 724-2371	(520) 733-5140	
Additional Key Project Stakeholders:		Natural Resources Parks and Recreation, Pima County	

Project Identification:

Project Title:	King Canyon Trailhead Parking Lot Access at Kinney Road
Facility Name:	King Canyon Trailhead Parking Lot
Local/FLMA Route, Name, or Designation:	Kinney Road
Other Facility Name / Designation (if any):	

Federal Land Management Agency (FLMA) Accessed:

Name(s) of FLMA	Site(s) or Major Destination(s) Accessed	Distance from Project (miles)	Current Annual Visitation (Estimate)
Saguaro National Park	King Canyon Trail (at trailhead)	0.1	54,750
Saguaro National Park	Mam-A-Gah Picnic Area	0.9	
Saguaro National Park	Hugh Norris Trail (Wassen Peak)	2.3	
Saguaro National Park	Gould Mine Trail (Gould Mine)	1.1	
Saguaro National Park	Sendero Esperanza Trail	0.9	

	Termini Start	Termini End
Landmark, Milepost, Cross Roads:	King Canyon Trailhead Parking Lot Access	
Latitude Coordinates: (Degrees Minutes Seconds format; to 6 decimals)	32.246558	
Longitude Coordinates: (Degrees Minutes Seconds format; to 6 decimals)	111.166903	

Arizona Federal Lands Access Program: Project Background

BACKGROUND DATA

1. Agency with Title to Facility:

Pima County

2a) Agency with Maintenance Responsibility

Pima County

2b) Describe how the maintenance responsibility is provisioned:

(e.g. ownership highway easement deed and/or maintenance agreement):

Pima County owns Kinney Road and is responsible for maintenance. The King Canyon Trailhead parking lot is located with Tucson Mountain Park which is also owned and maintained by Pima County.

3. Project Length:

Provide length in miles

0.1

4. Existing Width:

Provide average width in feet

22

5. Existing Posted Speed Limit:

3

5

6. Existing Bridge Information:

Provide known data for all bridge structures within the project limits.

Refer to the link below for guidance:
<http://azdot.gov/maps/functional-classification-maps>

National Bridge Inventory Structure #	Bridge Length (ft.)	Bridge Width (ft.)	Bridge Area (Sq. Ft)	Bridge Sufficiency Rating

7. Functional Classification:

Check those that apply.

☐ National Highway System

☐ Arterial

☐ Local Road

☒ Major Collector

☐ Minor Collector

Refer to the link for guidance: http://www.fhwa.dot.gov/planning/processes/statewide/related/highway_functional_classifications/

8. Traffic Volumes:

Provide any available traffic data from recent counts or other documented sources.

Note: If no data (i.e., counts) are available, please estimate range (< 200, 200 - 500, 500, 500 - 1000, > 1000 vehicles per day)

	Current	20-Year Projection	Data Source
Average Daily Traffic (ADT)	1457	4516	Pima Association of Governments
Seasonal Average Daily Traffic	2000-2500	5000-5500	Estimated
% ADT as FLMA visitors / users	6	6	Saguaro National Park

9. Safety History:

Describe site(s), number, and type of crashes that have occurred within the project limits and the source of this information (reports or anecdotal). If available provide site specific crash data for last three years.

In the last 3 years, there were no crashes at the King Canyon Trailhead parking lot access at Kinney Road. Access to the parking lot has a high skew (approximately 45 degrees) and intersection sight distances are limited by roadway cut slopes and overgrown vegetation. There were 4 crashes within the project limits related to the curves east and west of the parking lot entrance. Two of the crashes involved motorcycles (injury) and two were vehicles that lost control.

10. Projects in Proximity:

Describe other projects adjacent to or in proximity to this project that are being constructed to or within federal lands.

There is a pavement rehabilitation project on Kinney Road to improve wash crossings. The project will be constructed in the fall of 2016. The project was developed for SNP.

Arizona Federal Lands Access Program: Proposed Project

PROPOSED PROJECT

1. Purpose and Need:

Describe the need for the project including but not limited to who the project will serve, conditions requiring relief, and anticipated changes in use due to the proposed project.

Kinney Road serves as a recreational corridor for visitors to Saguaro National Park as well as a commuter roadway for residents of Picture Rocks and Avra Valley. The purpose of this project is to improve the King Canyon Trailhead parking lot and access to Kinney Road. The proposed improvements will make it safer to enter and exit the parking lot. The project will serve recreational users of the King Canyon Trail which provides access to hiking trails within Saguaro National Park for approximately 54,750 visitors each year. The demand for recreational hiking is anticipated to more than double over the next 20 years as the population increases. The size of the King Canyon Trailhead parking lot will need to be increased accordingly.

2. Proposed Design Standards:

Project will be designed to the following standards. Check those that apply.

☒ AASHTO

☐ State DOT

☒ Local Government

☐ FLMA

3. Proposed Width (feet):

Proposed width should be in accordance with the proposed design standards.

0

4. Proposed Speed Limit:

3

5

5. Description of Proposed Work:

Provide a detailed description of the proposed work. As appropriate include options to phase proposed work.

The proposed scope of work involves improving the intersection sight distances and cutting back the existing slope on the north side of Kinney Road west of the parking lot entrance. The entrance to the parking lot would be moved approximately 25' east to the crest of the existing profile grade in Kinney Road. The parking lot would be expanded to accommodate approximately 25-30 parking spaces and the parking lot would be paved with concrete curb along its' edges. Minor drainage improvements include a 24" pipe and a concrete spillway with rip -rap at the discharges. Traffic operations would benefit from removal of overgrown vegetation along Kinney Road to improve the line-of-sight in both directions. The project would also replace/upgrade the existing guard railing along Kinney Road for the wash crossing just west of the parking lot access.

6. Key Items of Work: Check all that apply. Refer to link for guidance: <http://contextsensitivesolutions.org/content/reading/types-of-highway/>

New Construction / Reconstruction (4R)

☒ Earthwork/Grading

☒ Road base

☐ Major Drainage (>48")

☒ Minor Drainage (<48")

☐ Retaining Walls

☐ ROW Acquisition

☐ Utility Relocations

Recycling (3R)

☐ Existing Asphalt / Base Recycling (Ex: Pulverization)

☐ Overlay

☐ Milling

☐ Minor Widening (< 5 ft.)

☐ Major Widening (> 5 ft.)

Bridge

☐ New

☐ Replacement

☐ Rehabilitation or Repair

Surfacing

☒ Asphalt

☐ Concrete

☐ Gravel

Safety

☒ Guardrail

☒ Sight Distance Improvements

☐ Roadside Hazards

☐ Other

* Alternative Modes

☐ Bicycle / Pedestrian facility

☐ Transit

☐ Other

Other

☐ Planning Study

☐ Environmental Linkage (PEL) Study

☐ Research

*Note: Applications that include alternative transportation elements (transit, bicycle, pedestrian, etc.), please fill out the supplemental worksheet for alternative transportation that can be found at: <http://flh.fhwa.dot.gov/programs/flap/az>

Arizona Federal Lands Access Program: Proposed Project

7. Right of Way Acquisition: All Right-of-way (ROW) property (acquisition costs) to be part of the project costs should be detailed in the project estimate page. All acquisition support costs are non-participating and will be borne by the applicant.

7a) Is ROW acquisition required? (yes /no)

No

7b) Describe the anticipated ROW acquisition needed to construct project. Include the formalization of all ROW on FLMA lands.

8. Utility Impacts: All utility relocation costs must be accounted for by the applicant whether borne by the applicant or included as project cost. Utility relocation costs should be detailed in the project cost estimate.

8a) Will relocation of utilities be required? (yes /no)

No

8b) Describe any anticipated utility impacts and proposed relocations.

There are underground power lines in the vicinity of the King Canyon Trailhead parking lot. The improvements can be designed to avoid conflicts with the underground power however, it will be necessary to positively locate the electrical lines.

9. Environmental Impacts / Resource Protection: Briefly describe known or anticipated impacts, positive or negative, to biological, cultural, wetlands or water resources, or any other environmental areas.

Parks & recreation area / wildlife refuge (Section 4(f)/e)

Positive

Describe: The project will improve access to the King Canyon Trailhead.

Dust or particulate matter

Positive

Describe: Paving the parking lot will reduce dust.

Describe:

Describe:

Describe:

Describe:

Describe:

Describe:

10. Lead Agency: CFLHD will be the lead agency. The applicant may request another agency take the lead for the project delivery. If recommending a different lead agency, identify alternative agency and rationale for this recommendation. The rationale should include why another agency should take the lead, previous experience in delivering Federal-Aid (Title 23) funded projects, certifications to deliver Federally funded projects, and ability to satisfy FHWA project delivery requirements. The final decision for project delivery resides with the PDC. If delivered by another Agency, CFLHD will have Stewardship and Oversight Responsibility.

No alternate lead agency will be requested.

Arizona Federal Lands Access Program: Proposed Project Cost Estimate

PROPOSED PROJECT COST ESTIMATE

Use this page to develop a cost estimate for the project. Attach a detailed estimate if available as backup to the below information. Must include all project costs including Preliminary Engineering and Construction Engineering costs, ROW, utility relocation, etc. Determine the cost per mile numbers based on understanding of local costs and the type of work proposed. Determine the % of engineering required based on the anticipated engineering and environmental compliance needed to meet Federal requirements and standards.

1. Major Work Items: costs below includes clearing and grubbing, earthwork drainage improvements, retaining walls, revegetation, permanent signing, and temporary traffic control.

a) New construction or Reconstruction (4R) (Excluding Surfacing)

Range: **\$1,000,000 - \$2,000,000 per mile** (Basis: 24 ft. width, 6 in. aggregate base)

\$ Per Unit (mile or sq. ft.)	Unit Length (mile or sq. ft.)	Total Cost (\$ per unit x unit length)
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\$3.97	30,000	\$119,100.00
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b) Pavement Recycling (3R) (Excluding Surfacing)

Range: **\$250,000 - \$500,000 per mile** (Basis: 24 ft. width, 6in of pulverization)

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c) Pavement Recycling (3R) with Minor Widening (< 5 ft.) (Excluding Surfacing)

Range **\$400,000 - \$700,000 per mile** (Basis: 24 ft. width, 6 in. pulverization)

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d) Pavement Recycling (3R) with Major Widening (> 5ft.) (Excluding Surfacing)

Range **\$600,000- \$1,000,000 per mile** (Basis: 24 ft. width, 6 in. pulverization)

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e) Other (please specify in box)

Include \$ per mile in "\$ per unit"

Mobilization and Construction Survey/Layout

\$1.48	30,000	\$44,400.00
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2. Surfacing (costs below are not included in costs above):

a) Asphalt Surfacing (includes pavement markings and associated items*

Range: **\$400,000 - \$600,000 per mile** (Basis: 24ft. width, 4 in. of asphalt)

\$6.25	30,000	\$187,500.00
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b) Gravel Surfacing

Range: **\$200,000 - \$300,000 per mile** (Basis: 24ft. width, 4 in. of gravel resurfacing)

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* Asphalt Surfacing items may include prime, tack, fog, etc

3. Additional Work Items:

a) Bridge (New or Replacement)

Range: **\$250,000 - \$500,000 per sq. ft.** (Basis: Concrete girders with spread footings)

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b) Bridge Rehabilitation / Repair

Cost (Lump Sum):

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c) ROW Acquisition

Cost (Lump Sum):

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d) Utility Relocation

Cost (Lump Sum):

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4. Other Work Items (provide backup data for these lump sum costs):

a) Item 1 Name:

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Description:

--

Cost (Lump Sum):

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b) Item 2 Name:

--

Description:

--

Cost (Lump Sum):

--

c) Item 3 Name:

--

Description:

--

Cost (Lump Sum):

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ESTIMATED COST SUBTOTAL OF PROPOSED PROJECT:

\$351,000.00

Arizona Federal Lands Access Program: Proposed Funding

ESTIMATED COST SUBTOTAL OF PROPOSED PROJECT (from previous page): \$351,000.00

5. Contingency (for unaccounted items - this is a fixed 10% of estimated subtotal of proposed project): \$35,100.00

6. Engineering (required for all projects):

a) Preliminary Engineering (% of Construction Cost, ROW & Utility Relocation)

Range: 7%-15% of Items 1-4 plus contingency (Enter as percentage without symbol - i.e. 5.5 for 5.5%)

15 % = \$57,915.00

b) Construction Engineering (% of Construction Cost, ROW & Utility Relocation)

Range: 10% - 12% of Items 1-4 plus contingency (Enter as percentage without symbol - i.e. 5.5 for 5.5%)

12 % = \$46,332.00

7. ESTIMATED TOTAL COST OF PROPOSED PROJECT: \$490,347.00

8. Enter the total funds requested from Federal Lands Access Program: \$462,397.22 = 94.3 % (cannot exceed 94.30%)

9. Project Funds Leveraged: Detail the non-FLAP match that will be furnished below.

Match Breakdown	Percent (%)	Amount (\$)	Agency Funding Source(s)	Timing of Availability (as MM/YYYY)
Required		\$10,000.00	* Local funds	8/2016
Minimum Match	5.70%	\$17,949.78	Local funds	8/2016
Over Match				
TOTAL FUNDS LEVERAGED	5.7	\$27,949.78	* Maximum funding amount per reimbursable agreement to fund scoping efforts.	

10. Describe all funding sources and partnerships for cash and in-kind contributions. (Overmatch funding sources do not have any restrictions).

The match will be provided through local funds.

11. Summarize cost for project including assumptions made. Describe costs that are outside of the general summary in the estimate.

The cost shown above includes clearing and grubbing, grading, installing culverts, concrete spillway and rip-rap, concrete curb around the perimeter of the parking lot, paving, signing, pavement marking, temporary traffic control, and plantings of drought tolerant vegetation and granite mulch. The estimate also includes ADA compliant access.

Criteria 1 - Access Mobility and Connectivity

1. Describe the high use Federal recreation site(s) and/or Federal economic generator(s) accessed by this project. How is the proposed facility connected to the site(s)? How will it improve access? Are there other access points to the site?

The Federal recreation site is Saguaro National Park (west). The King Canyon Trail is a very popular/heavily used hiking trail that provides access to SNP from the parks southern boundary. The King Canyon Trailhead parking lot is located within Tucson Mountain Park near the Arizona Desert Museum. The King Canyon trailhead is located approximately 700 feet north of the parking lot at the park boundary line.

The proposed facility will improve access by:

1. Improving intersection sight distances for vehicles exiting the King Canyon trailhead parking lot.
2. Increasing the capacity of the King Canyon trailhead parking lot to 25-30 parking spaces.
3. Paving the parking lot and connection to Kinney Road.

The trail system within the southern portion of SNP can also be accessed from one location on the west side via Hohokam Rd at the Hugh Norris trailhead and one location on the north side via Golden Gate Road at the Sendero Esperanza trailhead. The King Canyon Trail is more heavily used because it provides closer access to the Mam-a-Gah picnic area, the Gould Mine and to Wassen Peak.

2. Describe how the project will improve the visitor experience. How many visitors access the site(s) using the proposed roadway/trail/facility?

The proposed project will improve visitor experience by making it safer to enter and exit the King Canyon Trailhead parking lot. Visitors will be provided paved access to Kinney Road. Paving the parking lot will reduce dust and erosion. Improved traffic circulation will be provided via a loop in the parking lot. Approximately 54,750 people visit King Canyon Trail each year according to counts by SNP.

3. Describe how the proposed project and the facility are connected to the existing transportation network.

The King Canyon Trailhead is accessed from Kinney Road. Kinney Road provides access to Tucson Mountain Park and Saguaro National Park. Kinney Road connects State Route 86 with Sandario Road. Kinney Road is the southern most route through the Tucson Mountains. Other routes through the Tucson Mountains include Gates Pass Road and Picture Rocks Road.

4. Will this project improve mode choices or provide alternative modes of transportation? If yes, describe these improvements.

According to signs posted at the King Canyon Trailhead, pets, bicycles and vehicles are prohibited on the trail system within the southern portion of the trail system in SNP. The improvements will improve access for vehicles getting to the trailhead and for hiking.

5. Will this improve congestion and/or access management (e.g. reduction in traffic congestion, restrictions, bottlenecks, size/load limits, and/or improve emergency access)? If yes, describe these improvements.

The increase in parking spaces will allow more people to enjoy the outdoor recreational opportunities within SNP. The existing parking area is insufficient for current and future parking needs.

Criteria 2 - Economic Development

1. Identify the community(s) economically dependent on the access to the federal land(s) and the industry(s) that comprise the local economic base (e.g. resource extraction, tourism, etc.). Describe how this local economy is tied to the transportation network and proposed facility. How would the proposed project influence the community's economic goals/needs or development?

The primary use of the King Canyon Trail is for recreation.

Tucson Mountain Park and Saguaro National Park attract many visitors both locally and from all over the world. Other attractions on Kinney Road include Old Tucson Studios and the Arizona Desert Museum.

Improvements to the King Canyon Trailhead parking lot will promote increased use of the recreational opportunities in Saguaro National Park. The improvements will help facilitate access to SNP so visitors can enjoy their experience in the Sonoran Desert in Tucson, Arizona. SNP offers many other outdoor experiences including wildlife viewing, cultural history of the area, flora to name a few. The local economy benefits from tourism and recreational uses.

2. If the proposed project is located on a designated federal, or state scenic byway or backway, identify the scenic byway/backway and explain the anticipated benefit related to it. Would the project meet the needs identified in the Byway's management plan?

Kinney Road is designated by Pima County as a Major Scenic Route according to the Pima County Scenic Routes Plan.

The King Canyon Trailhead is located within Tucson Mountain Park and is managed by Pima County Natural Resources Parks and Recreation (NRPR). The proposed improvements are supported by NRPR management and complies with the Pima County Scenic Routes Plan.

Kinney Road is not designated as a scenic byway or backway.

Criteria 3 - Preservation

1. Provide detail of the existing surface or facility condition. How will the project improve the surface/facility condition?

The existing King Canyon Trailhead parking area and connection to Kinney Road is dirt. Paving the parking area will reduce dust and erosion and improve the surface condition.

2. How will the project impact maintenance and operating costs?

The addition of pavement will reduce yearly maintenance costs by eliminating the need for grading the existing dirt parking lot. The gravel and dirt that currently gets washed out onto Kinney Road from the King Canyon Trailhead parking lot will be eliminated.

3. Will this project improve a deficient rating or extend the service life of a structure?

There are no structures in the project area.

Criteria 4 - Safety

1. How would the proposed project improve unsafe conditions such as crash sites, inadequate sight distance, roadside hazards, poor vertical / horizontal alignment, hazardous intersections, inadequate lane and shoulder widths, etc?

A brief study of the sight distances showed that adequate sight distance could be provided if some minor improvements were made based on a 35 mph design speed. Intersection sight distance would be improved by cutting back the existing slope on the north side of Kinney Road west of the parking lot entrance. Sight distances would also be improved by moving the entrance to the parking lot approximately 25' east to the crest vertical curve in the profile grade of Kinney Road. Traffic operations would benefit from removal of overgrown vegetation along Kinney Road to improve the line-of-sight. Replacing/upgrading the existing guard railing along Kinney Road for the wash crossing just west of the parking lot access will also improve safety.

2. Describe how the project will improve safety for a wide range of users (destination motorists, bicyclists, pedestrians, public transportation, etc.).

Access to the existing parking lot has a high skew (approximately 45 degrees) and intersection sight distances are limited by roadway cut slopes and overgrown vegetation. The project will improve safety for all users. Increasing the sight distance will improve safety for motorists, bicyclists and pedestrians.

Criteria 5 - Sustainability and Environmental Quality Benefits

1. Describe how the proposed project contributes to the environmental goals and objectives of the Federal Land Management Agency.

The proposed project contributes to the National Park Service's objective by making hiking trails within Saguaro National Park more accessible.

2. Describe how would the project enhance wildlife connectivity, wildlife habitat, and / or aquatic organism passage. How would the project reduce pollution (noise, emissions, water, dust, etc.)?

The benefits of paving the existing dirt parking lot at the King Canyon Trailhead include reduced dust and improved air quality. The paved lot will improve the quality of storm water runoff by reducing erosion.

3. Describe if the project would contribute to the use of sustainable energy sources (e.g. alternative fuels, alternative transportation, etc.).

The project will encourage the use of hiking trails for recreational purposes. The project will not affect the use of alternative fuels or alternative transportation.

4. Describe any known environmental compliance or permitting work completed or anticipated on this project.

Two federally recognized threatened or endangered species, the lesser long-nosed bat and the Sonoran desert tortoise, have potential to be in the project area; two state recognized sensitive species, the reticulated gila monster and the desert box turtle, may also be in the area. The following environmental permits are anticipated for this project: Section 404 permit from USACE, a Preliminary Initial Site Assessment (PISA), and a 4(f) evaluation for Saguaro National Park and Tucson Mountain Park in accordance with current FHWA procedures and guidelines.

Criteria 6 - Funding and Coordination

1. Describe coordination and support from FLMA and other project stakeholders. Provide support letters.

Saguaro National Park has stated its support for this project. The location and scope of this project is the result of ongoing coordination between the Pima County DOT and Saguaro National Park. Other stakeholders include Tucson Mountain Park. Letters/form supporting the project are attached from Saguaro National Park, and the Pima County Natural Resources Parks and Recreation (NRPR) Department.

2. Is this project included in applicable state, regional, FLMA, and/or local plan(s)? If yes, describe how it is consistent with these plan(s).

The project to improve the King Canyon Trailhead parking lot is included on the lists of priority projects under consideration by Saguaro National Park. Improving the sight distances at the connection to Kinney Road is a goal by Pima County Natural Resources Parks and Recreation (NRPR) staff.

Submittal Instructions:

1. Save your form as PDF to your computer, with file name similar to:
ARIZONA FLAP APP 2016 <PROJECT NAME>
 - a. Check that all fields have been completed and that all your work has saved properly prior to e-mailing your application.
2. Attach all additional files:
 - a. Review the checklist you completed on page 1 and attach all photos, maps project estimates, and forms requiring signatures.
 - b. Maximum total for all files is 15MB. Using a zip application may help reduce file sizes but it is the responsibility of the sending party to ensure their file has successfully transmitted (not getting stuck in the e-mail "outbox").
 - c. **ATTENTION: DO NOT USE YOUR PDF SOFTWARE TO ATTACH DOCUMENTS INTO THE PDF DOCUMENT AS ALL YOUR FORM FIELDS WILL BE INVALID. ALL ATTACHED PHOTOS AND FILES SHOULD BE SEPARATE FILES.**
3. Save a copy for your records
4. E-mail your completed form to **cfl.planning@dot.gov**, using the subject: *ARIZONA FLAP APP 2016 <PROJECT NAME>*
5. Check your e-mail's "sent box" to ensure that your file was sent. Larger files may take longer to send.
 - a. You should receive confirmation of receipt of your submission within 3 working days.

Project endorsement can be signed electronically or be printed, signed and submitted electronically.

Morgan Malley, Transportation Planner
Central Federal Lands Highway Division
12300 West Dakota Ave, Ste 380B, Lakewood, CO 80228
Phone: 720-963-3605 | morgan.malley@dot.gov
Additional information on the Access Program is located at:
<http://flh.fhwa.dot.gov/programs/flap/az/>

Arizona Federal Lands Access Program: Proposed Project FLMA Support Form

This form can be signed and submitted electronically or be printed, signed, scanned and submitted electronically.

Letters of support are highly recommended in addition to this signature page.

Support Form - Acknowledgement of Coordination with Federal Land Management Agency (FLMA)

By signing this support form, the FLMA representative certifies that the projects provide access to, is adjacent to, or are located within a Federal recreation site or Federal economic generator.

Please Note: All fields are required.

1. Federal Land Management Agency (FLMA) supporting project: Saguaro National Park

2. Name of FLMA representative: Jeremy Curtis

3. Title: Chief of Maintenance

4. Signature: **JEREMY
CURTIS**

Digitally signed by JEREMY
CURTIS
Date: 2016.07.08 14:57:56
-07'00'

5. Date (MM/DD/YYYY):

0	7	/	0	8	/	2	0	1	6
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6. E-mail: jeremy_curtis@nps.gov

7. Telephone: 520-733-5140 ext. _____

8. Address 1: 3693 S. Old Spanish Trail Tucson, AZ 85730

9. Address 2: _____

10. Comments on the proposed project:

Saguaro National Park supports Trail-head Parking Upgrades to the King Canyon Trail-head. The improvements would enhance visitor safety and resource protection at an important access location to the park.

11. FLMA Point-of-Contact (POC) Name: Jeremy Curtis

12. POC Telephone: 520-733-5140 ext. _____ 12. POC e-mail: jeremy_curtis@nps.gov

Morgan Malley, Transportation Planner
Central Federal Lands Highway Division
12300 West Dakota Ave, Ste 380B, Lakewood, CO 80228
Phone: 720-963-3605 | morgan.malley@dot.gov
Additional information on the Access Program is located at:
<http://flh.fhwa.dot.gov/programs/flap/az/>

Project Site Map

Legend

☐ Parcels



Notes:



This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map are subject to Pima County's ITD GIS disclaimer and use restrictions.



U.S. Department
of Transportation

**Federal Highway
Administration**

Central Federal Lands Highway Division

September 1, 2016

12300 West Dakota Avenue
Suite 380A
Lakewood, CO 80228-2583
Office: 720-963-3733
christopher.longley@dot.gov

Pima County
Seth Chalmers
Traffic Engineering Division Manager
1313 S Mission Rd
Tucson, AZ 85713
Seth.Chalmers@pima.gov

Re: Project – AZ FLAP 62(1) King Canyon Trailhead
Arizona Federal Lands Access Program Project Application

Dear Mr. Chalmers:

Congratulations. The Arizona Program Decisions Committee (PDC) has accepted your application for the King Canyon Trailhead project into the short list of potential projects for the Arizona Federal Lands Access Program (AZ FLAP). Your application was accepted as follows:

Purpose: The purpose of this project is to increase safety for users of the King Canyon Trailhead and Kinney Road near the trailhead as well as to expand parking.

Scope: The scope of this project will include the sight distance improvements along Kinney Road at the King Canyon Trailhead parking area including moving the entrance, slope improvements, other sight distance related items, and safety improvements. Work will also include the expansion of the parking area by 25-30 spaces, concrete curbing, and minor drainage improvements.

PDC Considerations: The PDC noted the potential for shared parking use with the Arizona-Sonora Desert Museum to the south but did indicate there could be an issue with safety for pedestrians crossing Kinney Road. This option will be reviewed with the county as a potential alternative to the parking lot expansion.

Project Delivery: As noted in the application Central Federal Lands (CFL) will lead the project delivery, construction contracting, and contract administration of this project.

Funding: The application estimated a total project cost of \$491,000 with the amount requested from the Federal Lands Access Program at \$463,000 with a proposed cash match of 5.7% (\$28,000) from Pima County.

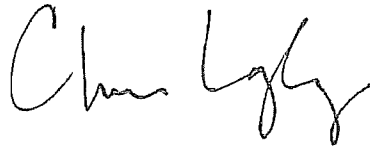
As specified under the conditions of the AZ FLAP Project Application, a scoping Reimbursable Agreement (RA) will be required between Central Federal Lands (CFL) and Pima County, to be executed as soon as possible, in the amount not to exceed \$10,000 as the 5.7% minimum local share of match funds for AZ FLAP funding. Execution of the RA and scoping efforts will be coordinated by the CFL Project Manager, Ed Martinez, who will be contacting you shortly to finalize an RA and to schedule the scoping trip.

This scoping effort will yield scoping documents detailing the proposed scope, schedule, and budget anticipated for the project to allow the PDC to finalize the program of projects.

If the PDC and Pima County agree with the project scope and cost estimate once scoping is complete, the PDC will place the project in the final program of projects, the RA will be modified to include all projected project costs, and a Memorandum of Agreement will be developed and signed by all of the project partners. The PDC determines the program year for funding based on total available funding and other needs in the program.

We appreciate your interest in the Federal Lands Access Program and look forward to working with Pima County and the Saguaro National Park on this project.

Sincerely,



Christopher Longley, P.E.
Federal Lands Access Program Manager

cc: Jeremy Curtis, Chief of Maintenance, Saguaro NP, Jeremy_Curtis@nps.gov
Chris Cawein, Natural Resources Parks and Recreation Director, Pima County, chris.cawein@pima.gov
Stephen Wilson, Pima County, stephen.wilson@pima.gov
Erica Cole, NPS, erica_cole@nps.gov
Philip Ronnerud, County Engineer, Greenlee County, AZ Local PDC Representative, pronnerud@co.greenlee.az.us
Todd Emery, Deputy State Engineer-Design, ADOT, AZ State PDC Representative, temery@azdot.gov
Ryan Tyler, Planning and Programs Branch Chief, CFLHD, AZ Federal PDC Representative, ryan.tyler@dot.gov
Ed Martinez, Project Manager, CFLHD, edward.martinez@dot.gov
Morgan Malley, Transportation Planner, CFLHD, morgan.malley@dot.gov