



# 107th Avenue: Indian School Road to Camelback Road Pedestrian and Bicycle Improvement Project

Alt. 1



107th AVENUE

Alt. 2



**Congestion Mitigation and Air Quality (CMAQ)  
Project Application  
FY 2015 Application**

**September 19, 2012**

## PEDESTRIAN, BICYCLE and SHARED-USE FACILITY PROJECT APPLICATION

### General Instructions:

This Excel form is to be used to request federal Congestion Mitigation and Air Quality (CMAQ) funding available through the Maricopa Association of Governments (MAG) for Bicycle Projects to be included in the FY2014-FY 2018 MAG Transportation Improvement Program. Funding is available for Federal Fiscal Year (FFY) 2015, 2016 and 2017.

This application form includes:

- Part A - Contact and Project Description,
- Part B - Segment Description and Proposed Improvements,
- Part C - Total Project Budget and Schedule,
- Part D - Checklist and Signature Page, and Transmittal Instructions and Schedule.

Each part is a separate tab of this excel file. Please complete Parts A - D. Alternative application forms are available upon request.

### Deadlines and Transmittal Instructions:

Two copies of a printed, complete and signed application must be received in the MAG offices by **10:00 a.m. Wednesday, September 19, 2012**. The application is to be submitted electronically and should include ArcGIS shape files depicting the project location if they are available.

**Detailed transmittal instructions are located in a separate tab** in this excel sheet. Late applications **will not be accepted**.

If member agencies need additional information or have questions, they should contact Teri Kennedy or Stephen Tate at (602)

<mailto:state@azmag.gov>  
<mailto:tkennedy@azmag.gov>  
<mailto:MDeCindis@azmag.gov>

**All information is required, unless noted by the word - Optional.**

### PART A - CONTACT AND PROJECT DESCRIPTION

Contact Information	
1. Sponsoring Agency	Phoenix
2. Contact Name	Ray Dovalina, Jr, PE
3. Phone	602-262-6781
4. E-Mail Address	<a href="mailto:ray.dovalina@phoenix.gov">ray.dovalina@phoenix.gov</a>
5. Mailing Address	City of Phoenix Street Transportation Department 200 West Washington Street, 5th Floor Phoenix, Arizona 85003

<b>Project Description</b> 6. Please provide the Project Title.	107th Avenue from Indian School Road to Camelback Road
7. Please provide a general description of the project (Please no more then 200 characters)	
Tiling the existing Roosevelt Irrigation Ditch facility, providing a predestrian/bicycle path with landscaping, improving air quality and traffic congestion.	
8. Please attach a map <b>with streets labeled</b> showing the location(s) <b>of the bicycle/shared-use facility.</b>	<b>Please attach map with transmittal</b>

## PART B-PEDESTRIAN, BICYCLE & SHARED-USE PROJECT DESCRIPTION AND PROPOSED IMPROVEMENTS

This part of the form identifies the current characteristics and proposed improvements for each project.

The purpose of Part B is to provide sufficient information to evaluate the cost estimate for the project and to provide assurance that the project will be capable of meeting the ADOT administered federal design review and clearance process. This process requires environmental, ROW and utilities clearances and a bid ready design prior to FHWA approval to encumber federal funding for construction.

### CMAQ Funding Eligibility

All Pedestrian, Bicycle and Shared-Use projects to be funded with federal CMAQ funds must be located in the 8-Hour Ozone Nonattainment Area. Please use the following link to verify that the project is in the nonattainment area.

[Links to 8-Hr Ozone Nonattainment Area Map](#)

### Section 1 - Project Description

1. What is the type of bicycle project? (Check all that apply)

<table border="0" style="width: 100%;"> <tr><td><input type="checkbox"/></td><td>Bicycle lane (4' min. w/o curb/gutter)</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Bicycle lane (5' min. with curb/gutter)</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Shared-use path (10' min.)</td></tr> <tr><td><input type="checkbox"/></td><td>Bridge (overpass)</td></tr> <tr><td><input type="checkbox"/></td><td>Tunnel (underpass)</td></tr> <tr><td><input type="checkbox"/></td><td>Paved shoulders (5' min.).</td></tr> </table>	<input type="checkbox"/>	Bicycle lane (4' min. w/o curb/gutter)	<input checked="" type="checkbox"/>	Bicycle lane (5' min. with curb/gutter)	<input checked="" type="checkbox"/>	Shared-use path (10' min.)	<input type="checkbox"/>	Bridge (overpass)	<input type="checkbox"/>	Tunnel (underpass)	<input type="checkbox"/>	Paved shoulders (5' min.).	<table border="0" style="width: 100%;"> <tr><td><input type="checkbox"/></td><td>Shoulder paving is within 4-miles of a PM-10 monitor</td></tr> <tr><td></td><td style="text-align: center;"><a href="#">Link MAG Webpage for Map of PM-10 Monitor Locations</a></td></tr> <tr><td><input type="checkbox"/></td><td>Signalized crossing</td></tr> <tr><td><input type="checkbox"/></td><td>Signalized midblock crossing/HAWK</td></tr> <tr><td><input type="checkbox"/></td><td>Mid-block crossing w/ pedestrian refuge</td></tr> <tr><td><input type="checkbox"/></td><td>Other <input style="width: 150px;" type="text"/></td></tr> </table>	<input type="checkbox"/>	Shoulder paving is within 4-miles of a PM-10 monitor		<a href="#">Link MAG Webpage for Map of PM-10 Monitor Locations</a>	<input type="checkbox"/>	Signalized crossing	<input type="checkbox"/>	Signalized midblock crossing/HAWK	<input type="checkbox"/>	Mid-block crossing w/ pedestrian refuge	<input type="checkbox"/>	Other <input style="width: 150px;" type="text"/>
<input type="checkbox"/>	Bicycle lane (4' min. w/o curb/gutter)																								
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<input type="checkbox"/>	Other <input style="width: 150px;" type="text"/>																								

1a. What is the type of pedestrian project? (Check all that apply)

<table border="0" style="width: 100%;"> <tr><td><input type="checkbox"/></td><td>Sidewalk (5' min.)</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Wide sidewalk (8' min.)</td></tr> <tr><td><input type="checkbox"/></td><td>Detached sidewalk (4' min. buffer)</td></tr> <tr><td><input type="checkbox"/></td><td>Bridge (overpass)</td></tr> <tr><td><input type="checkbox"/></td><td>Tunnel (underpass)</td></tr> </table>	<input type="checkbox"/>	Sidewalk (5' min.)	<input checked="" type="checkbox"/>	Wide sidewalk (8' min.)	<input type="checkbox"/>	Detached sidewalk (4' min. buffer)	<input type="checkbox"/>	Bridge (overpass)	<input type="checkbox"/>	Tunnel (underpass)	<table border="0" style="width: 100%;"> <tr><td><input type="checkbox"/></td><td>Signalized crossing</td></tr> <tr><td><input type="checkbox"/></td><td>Signalized midblock crossing/HAWK</td></tr> <tr><td><input type="checkbox"/></td><td>Mid-block crossing w/ pedestrian refuge</td></tr> <tr><td><input type="checkbox"/></td><td>Other <input style="width: 150px;" type="text"/></td></tr> </table>	<input type="checkbox"/>	Signalized crossing	<input type="checkbox"/>	Signalized midblock crossing/HAWK	<input type="checkbox"/>	Mid-block crossing w/ pedestrian refuge	<input type="checkbox"/>	Other <input style="width: 150px;" type="text"/>
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<input type="checkbox"/>	Other <input style="width: 150px;" type="text"/>																		

2. Please describe the facility on which the improvement will be located.

For a linear feature please enter the Facility Name, Starting Limit and Ending Limit. For a point feature (e.g. an intersection or crossing) please enter a Facility Name and a Crossing Feature.

Bicycle and Pedestrian improvements on 107th Avenue between Indian School Road and Camelback Road

Federal Functional Classification of the Facility

[Link to MAG webpage for Federal Functional Classification Map](#)

Type of Facility the Improvement will be located on

Length (in Miles)

Posted Speed Limit (MPH)

Through Lanes

The application submission will include ArcGIS shapefiles.

3. Please provide a map, aerial map, graphics and photos that clearly show the segment alignment and features that connect to other bicycle facilities and that cross into or about the alignment such as: washes, canals, railroad crossings, and other crossing features that may affect the project.

4. Please provide a simple diagram of the current typical cross section, including widths, of the segment that shows the right of way limits, sidewalks and shoulders (if any), and the lanes of travel.

<b>PART B-PEDESTRIAN, BICYCLE &amp; SHARED-USE PROJECT DESCRIPTION AND PROPOSED IMPROVEMENTS</b>
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**PART B-PEDESTRIAN, BICYCLE & SHARED-USE PROJECT DESCRIPTION AND PROPOSED IMPROVEMENTS**

5. Please provide an estimated traffic volume (ADT) below.

ADT Estimate

Date Counted

Name of road the traffic count was taken from

Description of Methodology used for the ADT Estimate

Average Daily Traffic (ADT) is calculated by first normalizing to account for daily and seasonal fluctuations in traffic. ADT may not represent the actual count taken on a particular day but instead has been adjusted to represent anticipated traffic flow on an average day throughout the year. The daily factors are calculated by first averaging the by-directional traffic volume totals for hte 12 full weeks of weekdays (1 week of weekdays in each month not containing a holiday). The factor is that average divided by the sum of each of the 12 instances of a weekday day.

6. Federal law requires that all federally funded projects comply with a federal environmental clearance. For projects that have a minimum ground disturbance, environmental surveys are required and an environmental document will need to be prepared, which typically requires 12 months to complete. Describe any known cultural, historical and biological resources, hazardous materials or other environmental issues that could affect work on the segment.

Describe any known cultural, historical and biological resources, hazardous materials or other environmental issues that could affect work on the segment.

7. Current ROW: (Check all that apply)

Agency owns all ROW Needed  
 ROW to be acquired  
 Owners will donate ROW

Agency owns easement  
 Agency has right-of-use (i.e. canal)  
 Condemnation may be required

8. Please describe any right of way issues associated with the project.

9. Current Utilities in or abutting the alignment: (Check all that apply)

No Utility in or abutting the alignment  
 Canals & Drainage  
 Power Lines & Cables

Pipelines, Sewer and Water  
 Private Structures  
Other

**PART B-PEDESTRIAN, BICYCLE & SHARED-USE PROJECT DESCRIPTION AND PROPOSED IMPROVEMENTS**

10. Please describe any utility conflicts that will need to be addressed.

Existing Salt River Project irrigation canal will need to be piped in order to construct improvements. Existing SRP headwalls will need to be removed. Existing Roosevelt Irrigation District well head will need to be improved. Roosevelt Irrigation District canal will need to be piped if a meandering 10 foot multi use path is to be designed. 600A and smaller power poles will need to be relocated.

**Section 2 - Proposed Improvements**

11. Please describe the work to be performed on the project:

Majority of the half street widening of approximately 32 feet of new AC pavement will occur on the eastern half of 107th Avenue between Camelback Road and Indian School Road. Options will look at constructing a 5 foot sidewalk, a detached 10 foot multi use path, or a detached meandering 10 foot multi use path. Enhancements will also include landscape and irrigation of the corridor. Portions of the western half of 107th Avenue will also be improved with new AC pavement, curb, gutter and 5 foot sidewalk as well as landscape and irrigation improvements. Roadway improvements will require catch basins and a storm drain system to drain the corridor. Connection to an existing storm drain network will require minor adjustments to the an existing channel due to vertical differences. Streetlighting improvements will be included along the corridor. Existing handicap ramps will be upgraded to current standards.

12. Guidelines used to develop project: (Check all that apply)

- AASHTO Guide for Bicycle Facilities
- MAG Pedestrian Policies and Design Guidelines
- MAG Complete Streets Guide

Other

ITE'S Designing, Walkable Urban Thoroughfares: A Context Sensitive Approach National Association of Transportation Officials (NACTO) 2nd Edition- Urban Bikeway Design Guide

13. Why is this project an enhancement to the local and/or regional transportation system? Is this a one-time opportunity?

This project provides a pedestrian and bicycle enhancement through the overall corridor which will improve air quality and traffic congestion. The corridor connects to several existing schools and the new City of Phoenix Dust Devil Park at the southeast corner of Camelback Rd and 99th Avenue. In addition, it has connectivity to the existing Camelback Ranch development that is located at the northwest corner of Camelback Rd and 99th Ave and possible connectivity to the Bethany Home Outfall Channel further north of Camelback Rd that ties into the Agua Fria Watercourse Trail system.

14. Please describe the current surface condition of the proposed project

Existing 107th Avenue between Campbell and Indian School road consists of a 3 lane roadway with a continuous center turn lane. Two lanes in the southern direction and one lane in the northern direction. Between Campbell to Camelback, 107th Avenue is one lane in each direction. Existing surface paving conditions are 5" Base Course over 6" of ABC over compacted native

15a. Safety improvements to be included for bike facilities: (Check all that apply)

- Wide bike lanes (6'-7')
- Grade-separated crossing (overpass or underpass)
- Signalized crossing
- Path lighting

Buffer Zone, Width

Other

15b. Safety improvements to be included for pedestrian facilities: (Check all that apply)

- Wide sidewalk (8' min.)
- Grade-separated crossing (overpass or underpass)

Buffer Zone, Width

**PART B-PEDESTRIAN, BICYCLE & SHARED-USE PROJECT DESCRIPTION AND PROPOSED IMPROVEMENTS**

Signalized crossing

Path lighting

Shade

Other

Improve the street lighting along the corridor

**PART B-PEDESTRIAN, BICYCLE & SHARED-USE PROJECT DESCRIPTION AND PROPOSED IMPROVEMENTS**

16a. Number of convenience improvements to be included for bike facilities:

- Number of Drinking Fountains
- Number of Way-finding Signs
- Number of Bike racks/lockers
- Number of Trash receptacles
- Number of Seating/Rest(s)

Number of Trees/shade structures

Other

[Redacted area]

16b. Number of convenience improvements to be included for pedestrian facilities:

- Number of Drinking Fountains
- Number of Way-finding Signs
- Number of Trash receptacles
- Number of Seating/Rest(s)

Number of Trees/shade structures

Other

[Redacted area]

17. How does this project improve upon an existing safety issue?

The project will provide a safe walking and bicycle pathway opportunity that is currently non-existing. This project will define a north- and southbound bike lane as well as a pedestrian/bicycle pathway along the west side of the corridor, enabling children that go to school next to Dust Devil Park to walk and bike along a designated pathway.

18. How does the project improve ADA facilities for persons with disabilities?

The proposed project would address any and all aspects related to ADA facilities and enhancements necessary to address ADA requirements.

19. Connectivity: (Check all that apply)

- Project fills a gap in the system
- Project connects to other local facilities

- Project is on a regional facility

Regional Facility Name

[Redacted area]

- Multi Jurisdictional Project

List of Participating Jurisdictions

[Redacted area]

- Number of transit routes and Park & rides served.

List: route number(s)/park & ride(s) served.

Local bus #41 and #50

[Redacted area]

20. Total length of facility connected by this project (in miles)

Miles of facilities connected

**PART B-PEDESTRIAN, BICYCLE & SHARED-USE PROJECT DESCRIPTION AND PROPOSED IMPROVEMENTS**

21. Number of activity centers (parks, libraries, senior centers, recreational centers, etc.) this project will benefit:

- Within 1/4 mile  
List:
- 1/4 mile to 1/2 mile  
List:
- 1/2 mile to 1 mile  
List:

22. Number of commercial destinations (malls, retail centers, business parks, etc.) and transit services (bus/rail routes, stops, and stations) this project will benefit:

- Within 1/4 mile  
List:
- 1/4 mile to 1/2 mile  
List:
- 1/2 mile to 1 mile  
List:

23. Number of schools (public elementary, middle, and high schools, colleges, and universities) this project will benefit:

- Within 1/4 mile  
List:
- 1/4 mile to 1/2 mile  
List:
- 1/2 mile to 1 mile  
List:

24. What are the demographics of the area served:

- Housing Density (Number of dwelling units per acre) within 1/2 mile
- The project is in a block group where the average household income is less than \$26,000/year (Use blockgroup data from the Census 2010)
- The project is in an area that serves adults over the age of 60 years (Use blockgroup data from the Census 2010)

**PART B-PEDESTRIAN, BICYCLE & SHARED-USE PROJECT DESCRIPTION AND PROPOSED IMPROVEMENTS**

25. Jurisdiction has the following policies for improved bicycle/shared use facilities:

With new development and capital improvement projects, bike lanes on arterial streets are:	Required
With new development and capital improvement projects, bike lanes on collector streets are:	Recommended
With pavement restoration or regular pavement maintenance on arterial streets, bike lanes are:	Recommended
With new development or during development retrofits, shared-use paths are:	Not Addressed
Bicycle program implemented, including bike education, safety events, and bike maps	Recommended
Complete Streets Policy	Recommended

26. The project is: (Check one)

- Identified in General Plan, council adopted policy, or Capital Improvements Program  
List:  
Consistent with City of Phoenix General plan policy of promoting pedestrian connections to improve air quality, reduce traffic congestion, conserve energy and provide an alternative mode of transportation.
- Consistent with general policy/practices, but not formally identified  
Explain
- Not addressed by jurisdiction's plans, policies, or practices

27. Describe how this project will be publicized to the general public.

Currently the project is under preliminary planning and through this preliminary phase, the City is engaging the community on what the overall concept should be considered. In addition, if the project is awarded funding, through the environmental and scoping document phase, there will be a public involvement phase to solidify the project concept.

28. How will you determine customer satisfaction/evaluation?

Customer satisfaction will come after the completion of the project and evaluation will be the usage of the project.

**PART C - TOTAL PROJECT SCHEDULE AND BUDGET INCLUDING ALL SEGMENTS**

Please provide a cost and programming estimate for the total project (e.g. the cost to complete all planned segment improvements). The design for the project should be programmed at least 1 year, preferably 2 years, prior to construction. Utilities and right of way should be programmed at least 1 year prior to construction, but may occur in the same year as construction depending on utility and right of way concerns that are identified in the segment description(s) in Part B(s).

Cost Estimate for the Project Including ALL Segments	Cost	Optional (Additional Notes)
1. ADOT Fee	70,624	None
2. Design	133,000	None
3. Right of way	10,000	None
4. Utilities	10,000	None
5. Construction	3,398,216	None
6. Contingency	50,000	None
7. Total Cost	3,671,840	None

8. Please attach a detailed cost estimate if available. [Link to MAG Webpage for Bike-Ped Cost Form](#)

9. Will the agency maintain the improvement after it is completed?

Yes
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10. Expected Annual Maintenance Cost

0	Note
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Requested MAG Programming	Year	Local Funding Source	Local Cost	Federal Cost	Total Cost
11. Design	2013	HURF	133,000	Not Available	133,000
12. Right of way and Utilities	2013	HURF	20,000	Not Available	20,000
13. Construction	2015	HURF	1,898,216	1,500,000	3,398,216
			2,051,216	1,500,000	3,551,216

Pedestrian, Bicycle and Shared-Use Facility Project Application from Phoenix for '107th Avenue from Indian School Road to Camelback Road'

**PART D - SIGNATURE AND CHECKLIST**

As the jurisdiction's manager/administrator or designated representative, I certify that this application is accurate and complete and that the project will be included in the sponsoring MAG member agency's local CIP/TIP if the project is selected for federal funding.

Signature: *R. Naimark*

Name: Rick Naimark

Title: Deputy City Manager

Date: September 18, 2012

**WILL FILL OUT AFTER QUESTIONS APPROVED.**

**Checklist - OPTIONAL**

This check list is optional, but is included to facilitate applicant review and verification that all required fields in the form have been completed.

<b>PART A - Contacts and Project Description Fields</b>	<b>Complete?</b>
Contact Information, fields 1 – 5 are complete	
Project Description, fields 6 - 7 are complete	
Project Description, field 8 – project map is provided in the printed application. Please attach a PDF file in the electronic submittal.	
<b>PART B - Segment Description and Proposed Improvements Fields</b>	<b>Complete?</b>
<b>Project Description, Section 1</b>	
Fields 1 - 2 are complete	
Field 3 – segment alignment map is provided in the printed application. Please attach PDF file in the electronic submittal.	
Field 4 - please check box if included and provided in the printed application. Please attach PDF file in the electronic submittal.	
Fields 5 – 10 are complete	
<b>Proposed Improvements, Section 2</b>	
Fields 11 – 28 are complete	
<b>PART C - Total Project Schedule and Budget Including All Segment Fields</b>	<b>Complete?</b>
Fields 1 – 7 are complete	
Field 8 - please check box if included and provided in the printed application. Please attach PDF file in the electronic submittal.	
Field 9 - 10 are complete	
Fields 11 – 13 Years are complete	
Fields 11 – 13 Local Funding Sources are complete	
Fields 11 – 13 Local Costs are complete	
Field 11 - 13 Federal Costs are complete	
<b>PART D - Signature Page Fields</b>	<b>Complete?</b>
Form is signed	
Name, title and date fields are completed.	

Pedestrian, Bicycle and Shared-Use Facility Project Application from Phoenix for '107th Avenue from Indian School Road to Camelback Road'

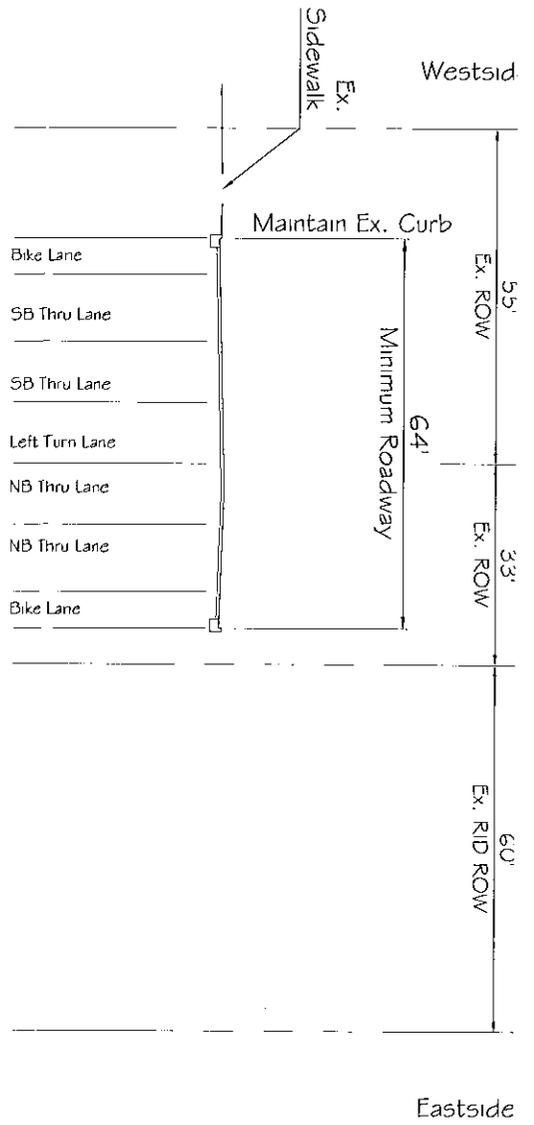
107th Ave Indian School Rd to Camelback



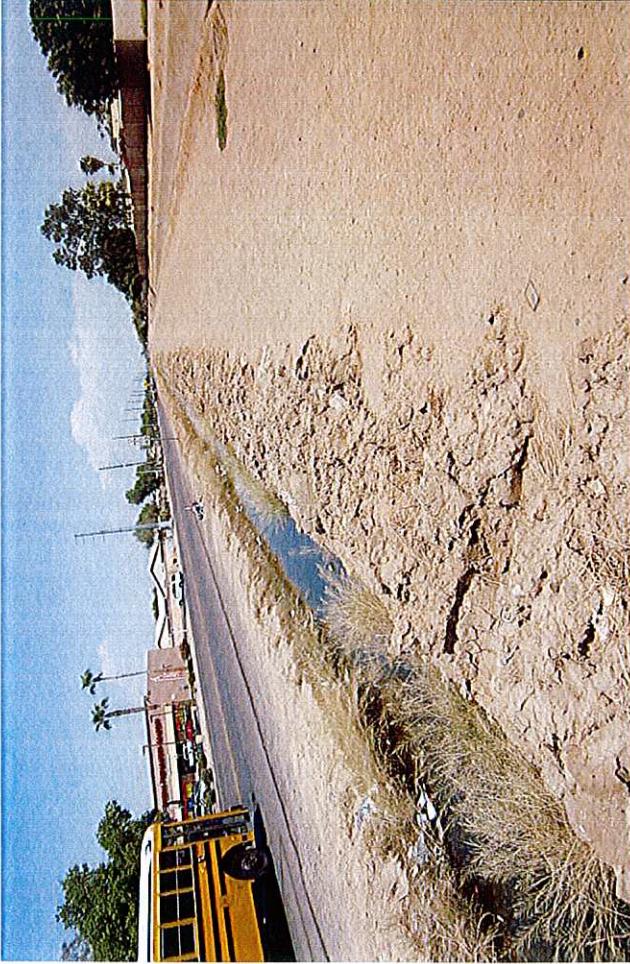
Project Location

Bus Stop

School



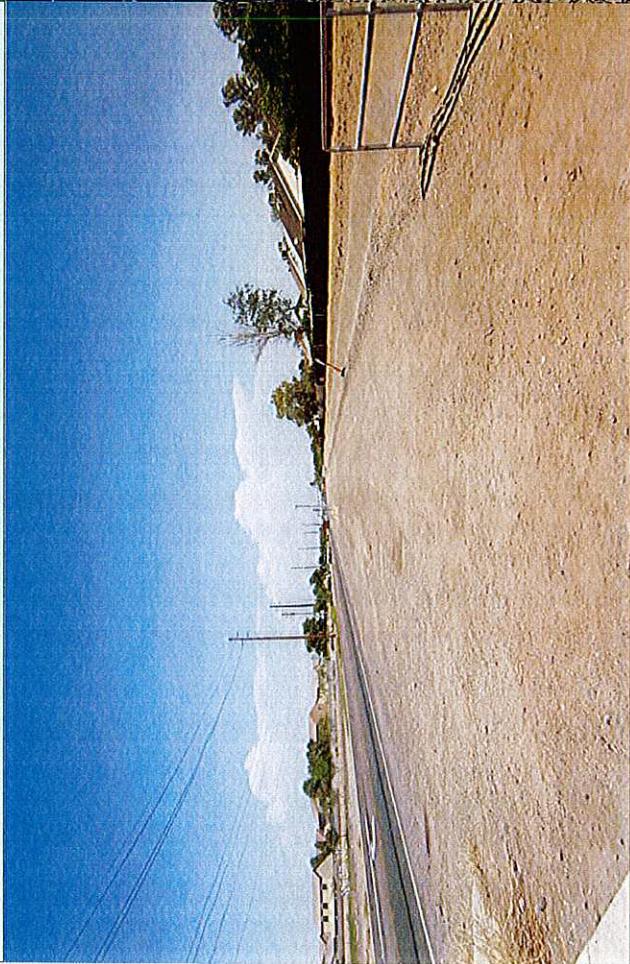
TYPICAL CROSS SECTION  
 107th AVENUE  
 INDIAN SCHOOL ROAD TO CAMELBACK ROAD



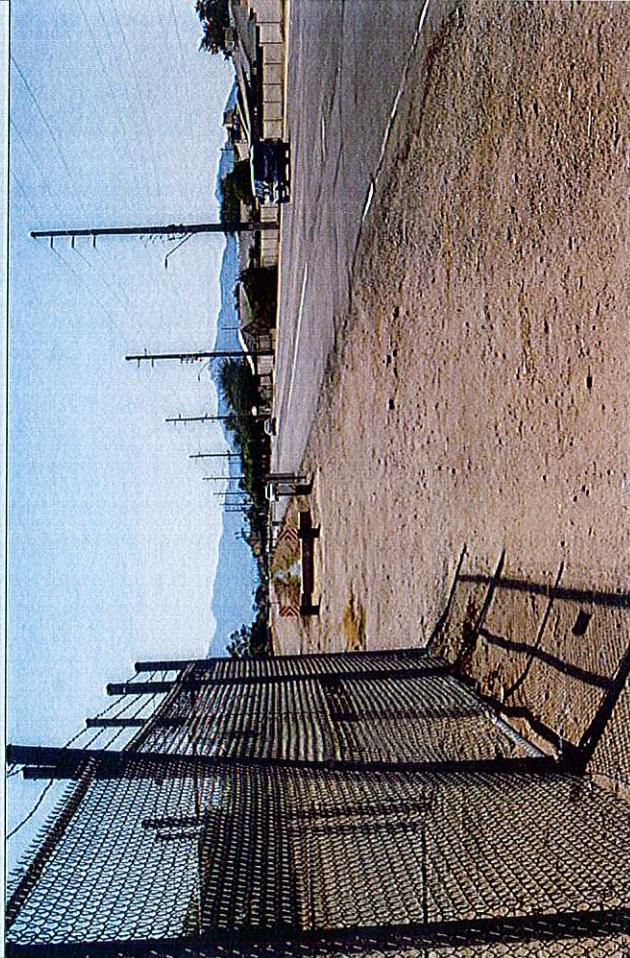
107<sup>th</sup> Ave Looking North



107<sup>th</sup> Ave Looking North at School



107<sup>th</sup> Ave looking at Campbell



107<sup>th</sup> Ave looking South at RID Well

# Pedestrian/Bicycle Cost Estimation Form

Design Funding

Locally Funded

Part	Item Description	Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)	
A. Scoping (15% Preliminary Engineering Design)	1. SITE TOPOGRAPHIC SURVEY	LS	1	\$5,000.00	\$5,000.00	FALSE	\$0.00	\$5,000.00	
	2. PROJECT ASSESSMENT REPORT or DETAILED WORKPLAN	LS	1	\$5,000.00	\$5,000.00	FALSE	\$0.00	\$5,000.00	
	3. ENVIRONMENTAL DETERMINATION (Infrastructure projects, including technical supporting)	LS	1	\$25,000.00	\$25,000.00	FALSE	\$0.00	\$25,000.00	
	4. HAZMAT ASSESSMENT	LS	1	\$5,000.00	\$5,000.00	FALSE	\$0.00	\$5,000.00	
	<b>Subtotal Scoping (Part A)</b>				<b>\$40,000.00</b>	<b>FALSE</b>	<b>\$0.00</b>	<b>\$40,000.00</b>	
	B. Final Preliminary Engineering Design - Stages II, III, IV and PS&E	1. Right-of-Way Acquisition	LS	1	\$10,000.00	\$10,000.00	FALSE	\$0.00	\$10,000.00
		2. Plans, Special Provisions or Bid Manual, Cost Estimate & Schedules.	LS	1	\$75,000.00	\$75,000.00	FALSE	\$0.00	\$75,000.00
		3. GEOTECHNICAL INVESTIGATION and Materials & Pavement Design Report	LS	1	\$5,000.00	\$5,000.00	FALSE	\$0.00	\$5,000.00
		4. DRAINAGE REPORT	LS	1	\$3,000.00	\$3,000.00	FALSE	\$0.00	\$3,000.00
		5. SWPPP	LS	1	\$0.00	\$0.00	FALSE	\$0.00	\$0.00
<b>Subtotal PE (Part B)</b>				<b>\$93,000.00</b>	<b>FALSE</b>	<b>\$0.00</b>	<b>\$93,000.00</b>		
C. Construction Or Implementation For Non-Infrastructure Projects (No Ground Disturbing Activities), Address Only Part 4	1. Hardscape Construction								
	Site Preparation								
		Sawcut	LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
		Remove Structures and Obstructions	LS	1	\$53,238.00	\$53,238.00	TRUE	\$50,203.43	\$3,034.57
		Remove Fencing	LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
		Remove Structural Concrete	CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
		Remove Asphaltic Concrete Pavement	SY	3,200	\$8.00	\$25,600.00	TRUE	\$24,140.80	\$1,459.20
		Remove Concrete sidewalks, Slabs	SY	2,256	\$8.00	\$18,048.00	TRUE	\$17,019.26	\$1,028.74
		Harmat Abatement	LS	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
		Utility Relocation	LS	1	\$120,000.00	\$120,000.00	TRUE	\$113,160.00	\$6,840.00
		Retaining Wall - Reinforced Concrete Cantilevered	SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
		General Excavation	CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
		Drainage Excavation	CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
		Structural Excavation	CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
		Structural Backfill	CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
		Borrow (In Place)	CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
		Curb & Gutter	LF	5,300	\$25.00	\$132,500.00	TRUE	\$124,947.50	\$7,552.50
		Aggregate Base	CY	2,041	\$13.00	\$26,538.74	TRUE	\$25,026.03	\$1,512.71
		Concrete	SF	45,560	\$4.00	\$182,240.00	TRUE	\$171,852.32	\$10,387.68
		Colored Concrete	SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
	Stamped Color Concrete	SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Precast Concrete Pavers	SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Asphaltic Concrete	Ton	107	\$75.00	\$8,045.24	TRUE	\$7,586.66	\$458.58	
	Polymer or Resin Stabilized Surface	SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Concrete Pavers	SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Stamped Asphalt	SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Stamped Concrete	SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Concrete	SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Integral Color Concrete	SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Crosswalk Enhancement	SF	7,132	\$12.00	\$85,584.00	TRUE	\$80,705.71	\$4,878.29	
	Pedestrian ADA Ramp	LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Culvert Extensions	Each	1	\$140,000.00	\$140,000.00	TRUE	\$132,020.00	\$7,980.00	
	Pedestrian lighting including Conduit and Trenching	LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Handrail	LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Decorative	LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	<b>Subtotal Hardscape Construction</b>				<b>\$791,793.98</b>	<b>TRUE</b>	<b>\$746,661.72</b>	<b>\$45,132.26</b>	
	Trees Above 15 Gallon in Size AS Required Per Local Code Or Special Design Requirements								
	Trees (15 Gallon Size)	Each	10	\$120.00	\$1,200.00	TRUE	\$1,131.60	\$68.40	
	Trees (5 Gallon Size)	Each	200	\$15.00	\$3,000.00	TRUE	\$2,829.00	\$171.00	
	Shrubs (5 Gallon Size)	Each	75	\$7.00	\$525.00	TRUE	\$495.08	\$29.92	
	Cactus (5 Gallon Size)	Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Mulch	CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Decomposed Granite	CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Organic	CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Topsoil	CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Seeding	Acre	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
2. Landscaping & Irrigation Items									

