



Transportation Alternatives Application for  
FY 2015, 2016, and 2017 Projects

**WINCHESTER ROAD BICYCLE AND PEDESTRIAN IMPROVEMENTS**

**CITY OF APACHE JUNCTION**

**APPLICATIONS ARE DUE AT MAG OFFICES BY  
Tuesday, October 22, 2013 at 10:00 a.m.**

**(LATE AND/OR INCOMPLETE APPLICATIONS WILL NOT BE ACCEPTED)**

Apache Junction: Winchester Rd Bicycle and Pedestrian Improvements

PART A - CONTACT AND PROJECT DESCRIPTION	
<b>Contact Information</b>	
1. Name of Sponsoring Agency	Apache Junction
2. Agency Contact Name	Raquel Schatz
3. Phone Number of Agency Contact	(480) 474-8549
4. E-Mail Address of Agency Contact	<a href="mailto:rschatz@ajcity.net">rschatz@ajcity.net</a>
5. Mailing Address of Agency Contact	575 E. Baseline Avenue, Apache Junction, AZ 85119
<b>Project Description</b>	
6. Please provide the Project Title.	Winchester Rd Bicycle and Pedestrian Improvements
7. Please provide a concise, specific description of the project (250 character limit):	
This is a sidewalk connect and bicycle lane installation project.	
8. Please provide the project limits:	
Bicycle lanes will be installed on Winchester Road bounded by 16th Avenue and Southern Avenue. And sidewalk connection is located on 16th Avenue bounded by Winchester Road and existing sidewalk approximately 600' west of Winchester Road.	
<b>Safe Routes to School (if project is NOT a Safe Routes to School project, proceed to Part B)</b>	
9. School Name	
10. School Address	
11. School City, State, ZIP Code	

**PART B-PROJECT DESCRIPTION**

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.

NOTE: For Part B, Questions 12-13 and 15-18, the specified distance will vary (and update automatically) depending on the project type identified in Part B, Question 1. Pedestrian-only projects will use a distance of 1/4 mile, while bicycle and Shared-Use projects will use a distance of 1/2 mile.

1. What type of project is this? (Check only one)

<input type="checkbox"/>	Bicycle lane (4' min. w/o curb/gutter)	<input type="checkbox"/>	Wide Sidewalk (8' min.)
<input checked="" type="checkbox"/>	Bicycle lane (5' min. with curb/gutter)		
<input type="checkbox"/>	Shared-use path (10' min.)		Other:
<input checked="" type="checkbox"/>	Detached Sidewalk with 4' min. buffer	<input type="text"/>	
<input checked="" type="checkbox"/>	Sidewalk (5' min.)		

2. What other major elements are included in this project? (Check all that apply)

<input type="checkbox"/>	Bridge (overpass)	<input type="checkbox"/>	Number of new openings in street walls
<input type="checkbox"/>	Tunnel (underpass)	<input type="checkbox"/>	Number of Trees
<input type="checkbox"/>	Safe Routes to School	<input type="checkbox"/>	Number of Shade Structures
<input type="checkbox"/>	Signalized Crossing	<input type="checkbox"/>	Number of Seating/Rest Area(s)
<input type="checkbox"/>	Signalized midblock crossing/HAWK	<input type="checkbox"/>	Number of bicycle/pedestrian counting devices
<input type="checkbox"/>	Countdown Pedestrian Signal		
<input type="checkbox"/>	Number of Bike racks/lockers		Other:
<input type="checkbox"/>	Number of Drinking Fountains	<input type="text"/>	
<input type="checkbox"/>	Number of Way-finding Signs		
<input type="checkbox"/>	Number of Trash receptacles		

3. Please describe the existing condition of the project site and any problem(s) being addressed.

There are no sidewalks located within the proposed project site, however sidewalks exist north on Winchester Road and west on 16th Avenue. The installation of sidewalks in the area will provide the connectivity needed for safe pedestrian travel. Existing conditions include dirt shoulders, overgrowth of native vegetation, and landscape gravel.

4. Please describe the work being done and improvements being made as part of this project.

Sidewalk connection on the south side of 16th Avenue west of Winchester Road. The bicycle lane installation, sidewalk, and curb & gutter on Winchester Road between 16th Avenue and Southern Avenue.

5. What do you hope to achieve with this project?

Pedestrian safety, multi-modal access, and restricted off-street parking.

6. Please provide a site safety / crash history, and provide a source for this information.

Please describe any car-bicycle and car-pedestrian crashes on streets within 2-mile radius of the project (within the last 5 years). You may attach crash reports or summarize their results below.

The City of Apache Junction has requested crash data for this project through MAG. As crash data will not be available prior to the TA application deadline, MAG will provide the crash data as an attachment prior to releasing the application to the evaluation panel for review.

7. Safety improvements to be included for this project: (Check all that apply)

<input type="checkbox"/>	Wide bike lanes (6'-7')	Buffer Zone, Width	<input type="text"/>
<input type="checkbox"/>	Wide sidewalk (8' min.)		4'
<input type="checkbox"/>	Grade-separated crossing (overpass or underpass)		
<input type="checkbox"/>	Signalized crossing/Ped countdown/HAWK		Other
<input type="checkbox"/>	Lighting	<input type="text"/>	
<input checked="" type="checkbox"/>	Striping/re-striping of roadway		
<input type="checkbox"/>	Countdown signals		

<b>PART B-PROJECT DESCRIPTION</b>	
8. How does this project improve upon an existing safety issue?	<p>Pedestrians have to walk next to the edge of pavement in the unimproved areas. This project will provide sidewalks for pedestrians as well as a dedicated lane for bicycles separating them from vehicular traffic.</p>
9. How does the project improve ADA facilities for persons with disabilities?	<p>The installation of ADA accessible sidewalks and vehicular barriers, such as curbs and gutter, will provide an accessible surface for persons with disabilities and families with children to freely travel where they had previously been no safe access.</p>
10. How does the project create a sense of place?	<p>The project will clearly define and delineate multi-modal locations in the road corridor.</p>
11. Connectivity: (Check all that apply)	<p><input checked="" type="checkbox"/> Project fills a gap in the system                      Explain:                      Missing sidewalk on both 16th Ave and Winchester Rd. Bicycle lane ends at 16th Ave on Winchester Rd.</p> <p><input checked="" type="checkbox"/> Project connects to other local bikeways                      List of connected bikeways:                      North of 16th Avenue on Winchester Road and West of Winchester Road on 16th Avenue.</p> <p><input type="checkbox"/> Multi Jurisdiccional Project                      List of Participating Jurisdictions:                      _____</p> <p><input type="text" value="10"/> Total length of facilities connected by this project (in miles)</p>
12. Number of transit stops this project will connect to. Do NOT count major transit facilities (park and rides, transit centers, etc.) in this question. List associated route(s) and their peak frequency, using Valley Metro as the source.	<p><input type="text" value="1"/> Within 1/2 mile                      List routes and frequency:                      School Bus Stop, twice a day, five days a week</p>
13. Number of major transit facilities (park and rides, transit centers, etc.) served by this project:	<p><input type="text" value="0"/> Within 1/2 mile                      List:                      _____</p>
14. Describe how this project will improve access from nearby neighborhoods and/or adjacent uses:	<p>Sidewalks installed in these locations will improve access for residents to school(s) and to the area park. Access will also be provided to area religious institution and social service agencies, and a nearby fire station which offer supportive services to low income residents.</p>

<b>PART B-PROJECT DESCRIPTION</b>	
15. Number of activity centers (parks, libraries, senior centers, recreational centers, etc.) this project will benefit:	
<input type="text" value="2"/> Within 1/2 mile List: <input type="text" value="Central Arizona College &amp; Superstition Shadows Park"/>	
16. Number of commercial and employment destinations (malls, retail centers, business parks, etc.) this project will benefit (for example, a mall is ONE destination; do NOT count every store in a mall as a separate destination):	
<input type="text" value="0"/> Within 1/2 mile List: <input type="text"/>	
17. Number of K-8 public schools this project will benefit:	
<input type="text" value="1"/> Within 1/2 mile List: <input type="text" value="Cactus Canyon Junior High School"/>	
18. Number of other schools (charter schools, high schools, colleges, and universities) this project will benefit:	
<input type="text" value="2"/> Within 1/2 mile List: <input type="text" value="Central Arizona College and Head Start"/>	
19. What are the demographics of the area served: <a href="#">MAG Demographic Mapping</a>	
<input type="text" value="2152"/> People Per Square Mile  <input type="text" value="33"/> % Families in Poverty	Use the MAG Demographic Mapping link above. Zoom in to your project area. On the right-hand side of the screen, under "Reporting," select "Custom." Next, select "Corridor of Interest." Left-click to begin drawing. Draw a line through all census blocks adjacent to your project, left-clicking where needed to change the direction of the line Double-click to finish drawing the line. The selected census blocks will become highlighted in blue. A pop-up box will appear with "Results for Selected Block Groups." Select the "Summary Report" tab, and use the data found there. You may export the results to Excel (click the printer icon at the top-right side of the pop-up window) for your records.

**PART B-PROJECT DESCRIPTION**

20. Please provide the following information on the facility on which the improvement will be located.

For a linear project, please enter the Facility Name, Starting Limit and Ending Limit:

Winchester Road: 1600S to 2400S, 16th Ave: 200E to 400E

For a point project (e.g. an intersection or crossing), please enter a Facility Name and a Crossing Feature:

Federal Functional Classification of the Facility:

Minor Arterial

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

Type of Facility the Improvement will be located on:

Residential Road

0.5 Length (in Miles)

35 Posted Speed Limit (MPH)

2 Number of Travel Lanes

21. Please provide an estimated traffic volume (ADT) below. If project is not on a road (ex. Canal path), use nearest parallel arterial.

6,376 ADT Estimate

1/1/10 Date Counted

Name of road the traffic count was taken from

Southern Avneue from Idaho Road heading east.

Description of Methodology and Source used for the ADT Estimate

Pneumatic road tubes

22. 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.

There are no known concerns. Work is to be completed in a previously disturbed right-of-way in a residential neighborhood.

23. 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

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

All work is to be completed within the city's right-of-way

25. 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:

<b>PART B-PROJECT DESCRIPTION</b>															
<b>26.</b>	Please describe any utility conflicts that will need to be addressed.  <div style="border: 1px solid black; padding: 5px; min-height: 60px;">                     SRP and Apache Junction Water District Facilities are present and adjacent to the proposed sidewalk and bicycle lane installations.                 </div>														
<b>27.</b>	Guidelines used to develop project: (Check all that apply)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"><input checked="" type="checkbox"/></td> <td style="width: 45%;">AASHTO Guide for Bicycle Facilities</td> <td style="width: 40%;">Other:</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>MAG Pedestrian Policies and Design Guidelines</td> <td rowspan="5" style="border: 1px solid black; padding: 5px; vertical-align: top;">                     MAG Standards and Specifications and the City of Apache Junction Engineering Design Guidelines and Policies Manual.                 </td> </tr> <tr> <td><input type="checkbox"/></td> <td>MAG Complete Streets Guide</td> </tr> <tr> <td><input type="checkbox"/></td> <td>MAG Designing Transit Accessible Communities</td> </tr> <tr> <td><input type="checkbox"/></td> <td>NACTO Urban Bikeway Design Guide</td> </tr> <tr> <td><input type="checkbox"/></td> <td>RPTA Bus Stop Program and Standards</td> </tr> </table>	<input checked="" type="checkbox"/>	AASHTO Guide for Bicycle Facilities	Other:	<input checked="" type="checkbox"/>	MAG Pedestrian Policies and Design Guidelines	MAG Standards and Specifications and the City of Apache Junction Engineering Design Guidelines and Policies Manual.	<input type="checkbox"/>	MAG Complete Streets Guide	<input type="checkbox"/>	MAG Designing Transit Accessible Communities	<input type="checkbox"/>	NACTO Urban Bikeway Design Guide	<input type="checkbox"/>	RPTA Bus Stop Program and Standards
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<input type="checkbox"/>	RPTA Bus Stop Program and Standards														
<b>28.</b>	Jurisdiction has the following policies for improved bicycle/shared use facilities:  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">With new development and capital improvement projects, bike lanes on arterial streets are:</td> <td style="width: 20%; text-align: center;"><input type="text" value="Recommend"/></td> </tr> <tr> <td>With new development and capital improvement projects, bike lanes on collector streets are:</td> <td style="text-align: center;"><input type="text" value="Recommend"/></td> </tr> <tr> <td>With pavement restoration or regular pavement maintenance on arterial streets, bike lanes are:</td> <td style="text-align: center;"><input type="text" value="Recommend"/></td> </tr> <tr> <td>With new development or during development retrofits, shared-use paths are:</td> <td style="text-align: center;"><input type="text" value="Not Addressed"/></td> </tr> <tr> <td>Bicycle program implemented, including bike education, safety events, and bike maps</td> <td style="text-align: center;"><input type="text" value="No"/></td> </tr> <tr> <td>Complete Streets Policy</td> <td style="text-align: center;"><input type="text" value="Yes"/></td> </tr> </table>	With new development and capital improvement projects, bike lanes on arterial streets are:	<input type="text" value="Recommend"/>	With new development and capital improvement projects, bike lanes on collector streets are:	<input type="text" value="Recommend"/>	With pavement restoration or regular pavement maintenance on arterial streets, bike lanes are:	<input type="text" value="Recommend"/>	With new development or during development retrofits, shared-use paths are:	<input type="text" value="Not Addressed"/>	Bicycle program implemented, including bike education, safety events, and bike maps	<input type="text" value="No"/>	Complete Streets Policy	<input type="text" value="Yes"/>		
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Complete Streets Policy	<input type="text" value="Yes"/>														
<b>29.</b>	The project is: (Check one)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"><input checked="" type="checkbox"/></td> <td style="width: 85%;">Identified in General Plan, council adopted policy, or Capital Improvements Program (provide source) List: <div style="border: 1px solid black; padding: 2px;">2012 Comprehensive Transportation Study</div></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Consistent with general policy/practices, but not formally identified (provide source) Explain: <div style="border: 1px solid black; height: 20px;"></div></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Not addressed by jurisdiction's plans, policies, or practices Explain: <div style="border: 1px solid black; height: 20px;"></div></td> </tr> </table>	<input checked="" type="checkbox"/>	Identified in General Plan, council adopted policy, or Capital Improvements Program (provide source) List: <div style="border: 1px solid black; padding: 2px;">2012 Comprehensive Transportation Study</div>	<input type="checkbox"/>	Consistent with general policy/practices, but not formally identified (provide source) Explain: <div style="border: 1px solid black; height: 20px;"></div>	<input type="checkbox"/>	Not addressed by jurisdiction's plans, policies, or practices Explain: <div style="border: 1px solid black; height: 20px;"></div>								
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<b>30.</b>	Identify the organization(s) responsible for on-going maintenance and repairs of the project:  <div style="border: 1px solid black; padding: 5px; min-height: 60px;">                     City of Apache Junction                 </div>														
<b>31.</b>	How will the applicant measure the success of this project?  <div style="border: 1px solid black; padding: 5px; min-height: 60px;">                     By the added use of pedestrian traffic.                 </div>														
<b>32.</b>	Will bicycle/pedestrian count technology be incorporated? Will the devices broadcast automatic updates or require manual data collection? If manual, how will the agency identify staff resources to dedicate to collecting the data?  <div style="border: 1px solid black; padding: 5px; min-height: 60px;">                     The City currently does not have bicycle/pedestrian count technology, and will not be incorporated with this project.                 </div>														
<b>33.</b>	Will the project include an education/marketing component upon completion of construction, to publicize the project and increase citizen awareness of the project impact and benefits? If yes, please describe below.  <div style="border: 1px solid black; padding: 5px; min-height: 60px;">                     Yes. This project will be publicized on the City's website in addition to flyer notification to the nearby schools, activity centers, and residents.                 </div>														

## **Part C - Required Attachments**

Listed below are the required attachments for this project application. These attachments are intended to demonstrate the need of the project. They should clearly show the segment alignment and features that connect to other bicycle, pedestrian, and/or shared-use facilities, as well as washes, canals, railroad crossings, and other crossing features that may affect the project.

### **PLEASE INCLUDE EACH ATTACHMENT AS A SEPARATE .JPEG OR .PDF FILE ON YOUR APPLICATION CD.**

Please insert ALL attachments between Part B and Part D on your printed application, in the order they are listed below. See below for alternate submission requirements for GIS coverage files.

#### **Required Attachments:**

1) Please attach a map with streets labeled showing the location(s) of the proposed project, including a north arrow.

2) Please attach up to four photos indicating existing conditions in the project area (two 4x6 photos per page).

3) Please attach 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.

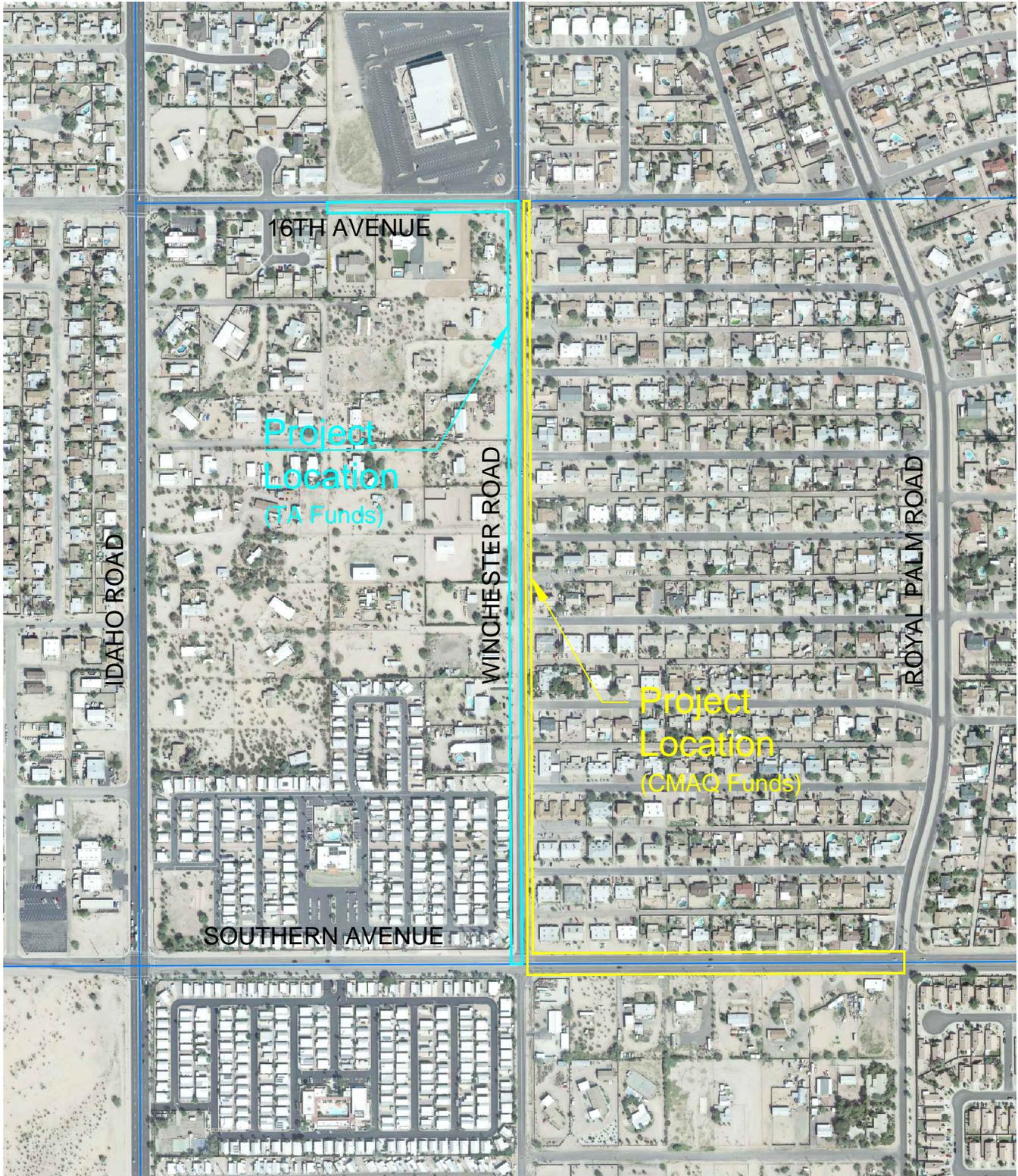
#### **OPTIONAL Attachments:**

(OPTIONAL) Attach up to two photos showing what the completed project will look like, if available (these can be photoshop, renderings, etc.).

(OPTIONAL) Attach any crash report(s) referenced in Part B, Section 2, #6.

(OPTIONAL) If the applicant will be providing a GIS coverage (shapefile or geodatabase), please see the tab labeled "GIS Transmittal Instructions"

# PROPOSED PROJECT AREA



TA Funds are requested to install 2 bike lanes, a center thru lane and sidewalks on the west side of Winchester Rd and sidewalks on 16th Ave for Fiscal Year 2017.

CMAQ Funds will be used to construct sidewalks and sidewalk ramps on the east side of Winchester Rd and both sides of Southern Ave in Fiscal Year 2017.

# WINCHESTER RD & 16<sup>TH</sup> AVE PEDESTRIAN IMPROVEMENTS

## Existing Conditions



*Picture 1, Existing Conditions: School Bus Stop in front of an apartment complex. Vehicles parked on the dirt shoulder. There's no designated place for bicycles. Bicyclist driving on dirt shoulder, maneuvering against traffic and parked vehicles.*



*Picture 2, Existing Conditions: No sidewalk ramps, dirt shoulder with over grown vegetation.*

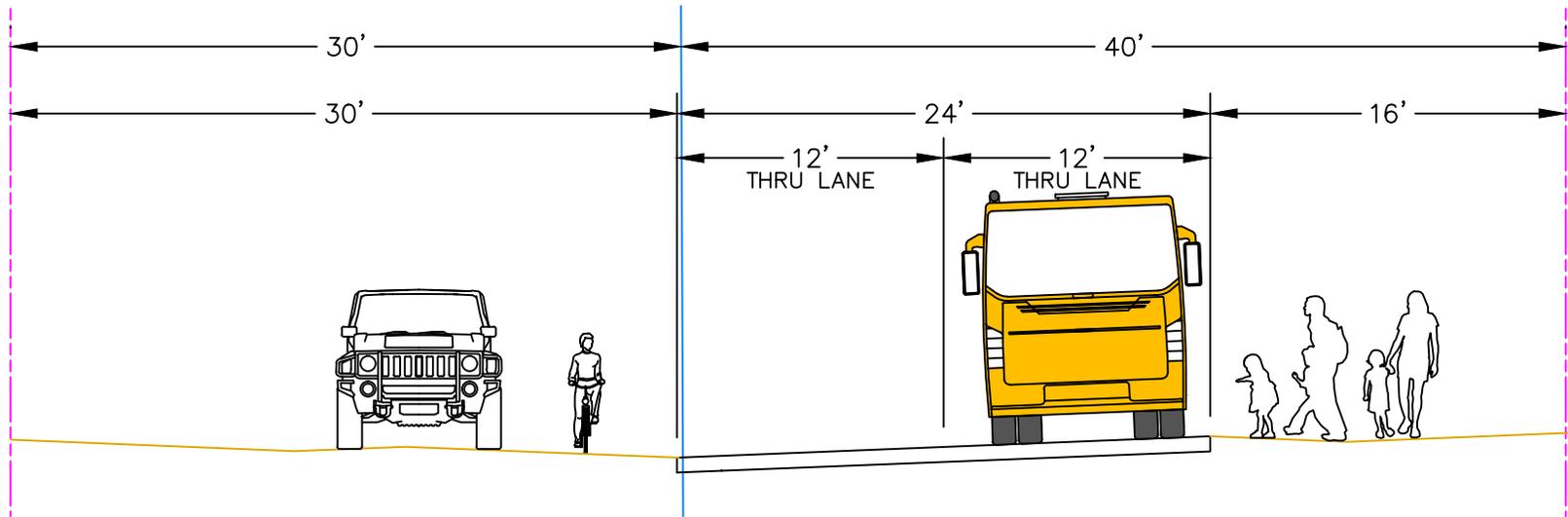
**WINCHESTER RD & 16<sup>TH</sup> AVE PEDESTRIAN IMPROVEMENTS**  
**Proposed Conditions**



*Picture 3, Proposed Conditions: Bicycle lanes, sidewalk, sidewalk ramps.*



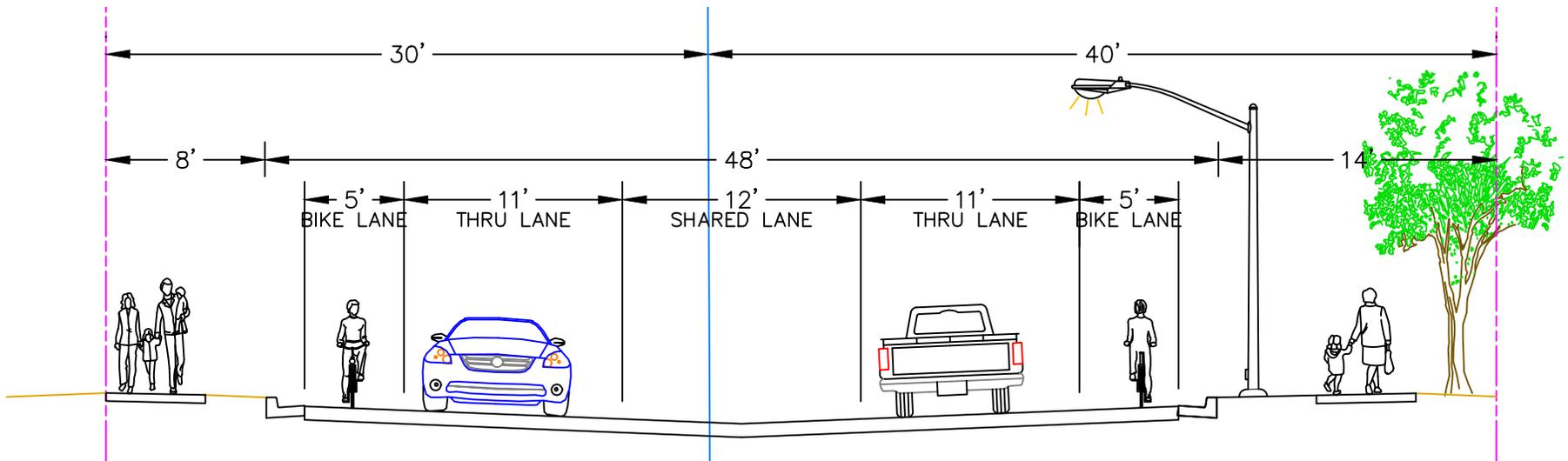
*Picture 4, Proposed Conditions: Detached Sidewalks, sidewalk ramps, curb & gutter, and bicycle lanes.*



## CURRENT TYPICAL CROSS SECTION

### CURRENT CONDITIONS

- 2 - 12' VEHICLE LANES
- NO BIKE LANES
- DIRT SHOULDER



## PROPOSED TYPICAL CROSS SECTION

### INFRASTRUCTURE ADDITIONS

- 2 - 5' BIKE LANE
- 5' CONCRETE SIDEWALK
- CONCRETE CURB & GUTTER
- SIDEWALK RAMPS

Apache Junction: Winchester Rd Bicycle and Pedestrian Improvements

PART D - TRANSPORTATION ALTERNATIVES COST ESTIMATE FORM														
Please provide a detailed cost estimate for this project. The data entered in this cost estimate sheet will automatically transfer into the correct fields in Part E. Rows 1-9 will remain visible at the top of this page at all times.														
<b>Sponsoring Agency:</b>		Apache Junction		<b>Project Title:</b>		Winchester Rd Bicycle and Pedestrian Improvements		<b>Application Date:</b>		10/22/2013				
Part	Item Description					Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)	Note(s)	
A. Scoping (15% Preliminary Engineering Design)	1. SITE TOPOGRAPHIC SURVEY					LS	1	\$0.00	\$0.00	No	\$0.00	\$0.00		
	2. PROJECT ASSESSMENT REPORT OR DETAILED WORKPLAN					LS	1	\$0.00	\$0.00	No	\$0.00	\$0.00		
	3. ENVIRONMENTAL DETERMINATION (Infrastructure projects, including technical supporting documents)					LS	1	\$0.00	\$0.00	No	\$0.00	\$0.00		
	4. HAZMAT ASSESSMENT					LS	1	\$0.00	\$0.00	No	\$0.00	\$0.00		
	<b>Subtotal Scoping (Part A)</b>								<b>\$45,000.00</b>		<b>\$0.00</b>	<b>\$0.00</b>	<b>MAG Design Assistance \$45,000</b>	
B. Final Preliminary Engineering Design - Stages II, III, IV And PS&E	1. Plans, Special Provisions or Bid Manual, Cost Estimate & Schedules.					LS	1	\$75,000.00	\$75,000.00	No	\$0.00	\$75,000.00		
	2. GEOTECHNICAL INVESTIGATION and Materials & Pavement Design Report					LS	1	\$7,500.00	\$7,500.00	No	\$0.00	\$7,500.00		
	3. DRAINAGE REPORT					LS	1	\$7,500.00	\$7,500.00	No	\$0.00	\$7,500.00		
	4. SWPPP					LS	1	\$8,000.00	\$8,000.00	No	\$0.00	\$8,000.00		
	<b>Subtotal PE (Part B)</b>								<b>\$98,000.00</b>		<b>\$0.00</b>	<b>\$98,000.00</b>		
<b>Subtotal Preliminary Engineering (Part A + Part B)</b>								<b>\$143,000.00</b>		<b>\$0.00</b>	<b>\$98,000.00</b>			
C. Right-of-Way Acquisition	1. Right-of-Way Acquisition					LS	0	\$0.00	\$0.00	No	\$0.00	\$0.00	None needed.	
<b>Subtotal Right-of-Way Acquisition (Part C)</b>								<b>\$0.00</b>		<b>\$0.00</b>	<b>\$0.00</b>			
D. Utility Relocation	1. Utility Relocation					LS	1	\$5,000.00	\$5,000.00	No	\$0.00	\$5,000.00		
<b>Subtotal Utility Relocation (Part D)</b>								<b>\$5,000.00</b>		<b>\$0.00</b>	<b>\$5,000.00</b>			
E. Construction Or Implementation [For Non-Infrastructure Projects (No Ground Disturbing Activities), Address Only Part 4]	1. Hardscape Construction	Installation Of SWPP Measures				LS	1	\$13,000.00	\$13,000.00	Yes	\$12,259.00	\$741.00		
		Site Preparation				LS	1	\$5,000.00	\$5,000.00	Yes	\$4,715.00	\$285.00		
		Demolition	Sawcut				LF	2,535	\$2.00	\$5,070.00	Yes	\$4,781.01	\$288.99	
			Remove Structures and Obstructions				LS	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
			Remove Fencing				LF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
			Remove Structural Concrete				CY	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
			Remove Asphaltic Concrete Pavement				CY	1	\$10,000.00	\$10,000.00	Yes	\$9,430.00	\$570.00	
			Remove Concrete Sidewalks, Slabs				CY	1	\$5,000.00	\$5,000.00	Yes	\$4,715.00	\$285.00	
		Hazmat Abatement				LS	1	\$5,000.00	\$5,000.00	Yes	\$4,715.00	\$285.00		
		Retaining Wall - Reinforced Concrete Cantilevered				SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00		
		Earthwork	General Excavation				LS	1	\$20,000.00	\$20,000.00	Yes	\$18,860.00	\$1,140.00	
			Drainage Excavation				LS	1	\$5,000.00	\$5,000.00	Yes	\$4,715.00	\$285.00	
			Structural Excavation				CY	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
			Structural Backfill				CY	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
			Borrow (In Place)				CY	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Curb & Gutter				LF	2,000	\$16.00	\$32,000.00	Yes	\$30,176.00	\$1,824.00		
		Aggregate Base				CY	1,000	\$50.00	\$50,000.00	Yes	\$47,150.00	\$2,850.00		
		Pathway Or Sidewalk Materials	Concrete				SF	13,000	\$5.00	\$65,000.00	Yes	\$61,295.00	\$3,705.00	
			Colored Concrete				SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
			Stamped Color Concrete				SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
			Precast Concrete Pavers				SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
			Asphaltic Concrete				Ton	1,300	\$82.00	\$106,600.00	Yes	\$100,523.80	\$6,076.20	
			Polymer or Resin Stabilized Surface				SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Crosswalk Enhancement	Concrete Pavers				SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
			Stamped Asphalt				SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
			Stamped Concrete				SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
			Concrete				SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
			Integral Color Concrete				SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Pedestrian ADA Ramp				Each	2	\$1,200.00	\$2,400.00	Yes	\$2,263.20	\$136.80		
		Culvert Extensions				LS	1	\$10,000.00	\$10,000.00	Yes	\$9,430.00	\$570.00		
		Pedestrian Lighting Including Conduit And Trenching				Each	15	\$2,500.00	\$37,500.00	Yes	\$35,362.50	\$2,137.50		
		Handrail	Standard				LF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
Decorative				LF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00				
<b>Subtotal Hardscape Construction</b>								<b>\$371,570.00</b>		<b>\$350,390.51</b>	<b>\$21,179.49</b>			

**PART D - TRANSPORTATION ALTERNATIVES COST ESTIMATE FORM**

Please provide a detailed cost estimate for this project. The data entered in this cost estimate sheet will automatically transfer into the correct fields in Part E. Rows 1-9 will remain visible at the top of this page at all times.

<b>Sponsoring Agency:</b>		Apache Junction		<b>Project Title:</b>		Winchester Rd Bicycle and Pedestrian Improvements		<b>Application Date:</b>		10/22/2013			
Part	Item Description			Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)	Note(s)		
E. Construction Or Implementation [For Non-Infrastructure Projects (No Ground Disturbing Activities), Address Only Part 4]	2. Landscaping & Irrigation Items	Requirements		Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00			
		Trees (15 Gallon Size)		Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00			
		Trees (5 Gallon Size)		Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00			
		Shrubs (5 Gallon Size)		Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00			
		Shrubs (1 Gallon Size)		Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00			
		Cactus (5 Gallon Size)		Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00			
		Mulch		Decomposed Granite		SY	3,380	\$6.00	\$20,280.00	Yes	\$19,124.04	\$1,155.96	
				Organic		CY	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				Topsoil		CY	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				Seeding		Acre	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				Turf Sod		SY	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				Boulders		Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Irrigation System		Drip		SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				Turf		SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				Directional Bore		LF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				Sleeving For Irrigation System		LF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				Landscape Header Curb		LF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				Landscape Establishment		LS	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
			Subtotal Landscaping & Irrigation Items					\$20,280.00		\$19,124.04	\$1,155.96		
	3. Site Furnishings			Benches		Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				Seatwalls		LF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				Bike Racks		Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				Trash Receptacles		Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				Drinking Fountains		Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				Signage (Standard Traffic Control)		Each	30	\$300.00	\$9,000.00	Yes	\$8,487.00	\$513.00	
				Signage (Wayfinding)		Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				Tree Grates		Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				Subtotal Site Furnishings					\$9,000.00		\$8,487.00	\$513.00	
		4. Other Construction Items. Also, Itemized Line Items For Non-Infrastructure Projects. (Insert Additional Rows If Necessary)			Bicycle and Pedestrian Counter		Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Pavement Marking		LS	1	\$20,000.00	\$20,000.00	Yes	\$18,860.00	\$1,140.00		
			Concrete Driveways		SF	2,500	\$6.00	\$15,000.00	Yes	\$14,145.00	\$855.00		
						0	\$0.00	\$0.00	Yes	\$0.00	\$0.00		
						0	\$0.00	\$0.00	Yes	\$0.00	\$0.00		
						0	\$0.00	\$0.00	Yes	\$0.00	\$0.00		
						0	\$0.00	\$0.00	Yes	\$0.00	\$0.00		
						0	\$0.00	\$0.00	Yes	\$0.00	\$0.00		
						0	\$0.00	\$0.00	Yes	\$0.00	\$0.00		
			Subtotal Other Construction					\$35,000.00		\$33,005.00	\$1,995.00		
	5. Mobilization And Administration Costs			Contractor Mobilization		LS	1	\$45,000.00	\$45,000.00	No	\$0.00	\$45,000.00	
				Traffic Control		LS	1	\$45,000.00	\$45,000.00	Yes	\$42,435.00	\$2,565.00	
				Construction Survey & Layout		LS	1	\$30,000.00	\$30,000.00	Yes	\$28,290.00	\$1,710.00	
				Construction Contingencies		LS	1	\$45,000.00	\$65,000.00	Yes	\$61,295.00	\$3,705.00	
				Construction Administration		LS	1	\$92,000.00	\$87,170.00	Yes	\$82,201.31	\$4,968.69	
				Subtotal Mobilization & Administration Costs					\$272,170.00		\$214,221.31	\$57,948.69	
	<b>Subtotal Construction Or Implementation Cost (Part E)</b>							<b>\$708,020.00</b>		<b>\$625,227.86</b>	<b>\$82,792.14</b>		
<b>F. Total Scoping, PE, Right-of-Way Acquisition, Utility Relocation, and Construction (Part A, B, C, D, and E)</b>							<b>\$856,020.00</b>		<b>\$625,227.86</b>	<b>\$185,792.14</b>			
<b>G. Adot Fee For Pe Reviews And Staff Charges (The higher of \$20,000 or 2% of Total Cost (Part F))</b>							<b>\$20,000.00</b>	No	\$0.00	\$20,000.00			
<b>H. Total Project Cost Including ADOT Fees (Part F + Part G)</b>							<b>\$876,020.00</b>		<b>\$625,227.86</b>	<b>\$205,792.14</b>			

Apache Junction: Winchester Rd Bicycle and Pedestrian Improvements

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

Please verify that the cost and programming estimates for the total project are correct below. The numeric values on this sheet (in GREY) are automatically populated from the cost estimate sheet (Part D) and cannot be modified. If there are any errors in the numeric values on this sheet, please verify and correct the numbers you have entered into the cost estimate sheet (Part D). You MUST fill in the GREEN portions of Part E manually.

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 questions 23-26 in Part B.

Cost Estimate for the Project Including ALL Segments	Cost	Additional Notes (if needed)			
1. ADOT Fee	\$20,000				
2. Design	\$143,000	Portions of the Design is funded by the MAG Design Assistance.			
3. Right of way	\$0				
4. Utilities	\$5,000				
5. Construction	\$708,020				
6. Total Cost	\$876,020				
7. Will the agency maintain the improvement after it is completed?		<input type="text" value="Yes"/>			
8. Expected Annual Maintenance Cost		<input type="text" value="900"/>			
9. Identify Source of Maintenance Funds		<input type="text" value="HURF"/>			
Requested MAG Programming	Year	Local Funding Source	Local Cost	Federal Cost	Total Cost
10. Design	2014	HURF	\$143,000	Not Available	\$143,000
11. ADOT Fee	2014	HURF	\$20,000	Not Available	\$20,000
12. Right of way and Utilities	2014	HURF	\$5,000	Not Available	\$5,000
13. Construction	2017	HURF	\$82,792	\$625,228	\$708,020
14. Total Costs			\$250,792	\$625,228	\$876,020

PART F - SIGNATURE AND CHECKLIST	
Checklist	
This checklist is included to facilitate applicant review and verification that all required fields in the form have been completed.	
<b>COVER SHEET</b>	<b>Complete?</b>
Cover Sheet is completely filled out	Yes
<b>PART A - Contacts and Project Description Fields</b>	<b>Complete?</b>
Contact Information, fields 1 – 5 are complete	Yes
Project Description, fields 6 - 8 are complete	Yes
Safe Routes to School, fields 9-12 are complete (if applicable)	Yes
<b>PART B - Project Description</b>	<b>Complete?</b>
Fields 1 - 11 (Project Description) are complete	Yes
Fields 12– 14 (Transit and Access) are complete	Yes
Fields 15 – 19 (Attractors and Demographics) are complete	Yes
Fields 20 – 26 (Traffic, Environmental, ROW, and Utilities) are complete	Yes
Fields 27 – 29 (Guidelines, Policies, and Plans) are complete	Yes
Fields 30 – 33 (Maintenance and Performance Measurement) are complete	Yes
<b>PART C - Required Attachments</b>	<b>Complete?</b>
Field 1 - Project map is provided in the printed application and the PDF application	Yes
Field 2 - Up to 4 photos of existing conditions are provided in the printed application and the PDF application (two 4x6 per page).	Yes
Field 3 - Cross-section(s) provided in the printed application and the PDF application.	Yes
(OPTIONAL)- Up to 2 photos/renderings of the completed project are provided in the printed application and the PDF application.	Yes
(OPTIONAL) - Crash report(s) are provided in the printed application and the PDF application	No
(OPTIONAL) - GIS coverage (shapefile or geodatabase) is provided on the CD with the application.	No
<b>PART D - Cost Estimate Worksheet</b>	<b>Complete?</b>
Sponsoring Agency, Project Title, and Application Date are complete	Yes
Part A - Scoping is complete	Yes
Part B - Final Preliminary Engineering Design is complete	Yes
Part C - Right-of-Way Acquisition is complete	Yes
Part D - Utility Relocation is complete	Yes
Part E - Construction or Implementation is complete	Yes
Parts F, G, and H - Costs are complete and accurate	Yes
<b>PART E - Total Project Schedule and Budget Including All Segment Fields</b>	<b>Complete?</b>
Fields 1 – 6 are complete and costs are accurate	Yes
Field 7 - 9 are complete	Yes
Fields 10 – 13 Years are complete	Yes
Fields 10 – 13 Local Funding Sources are complete	Yes
Fields 10 – 13 Local Costs are complete and accurate	Yes
Field 10 - 13 Federal Costs are complete and accurate	Yes
Field 14 Total Costs are complete and accurate	Yes
<b>PART F - Signature and Checklist</b>	<b>Complete?</b>
Entire checklist is completed.	Yes
Form is signed by MAG member agency's manager/administrator or designated representative.	Yes
Name, title and date fields under the signature are completed.	Yes
(SAFE ROUTES TO SCHOOL PROJECTS ONLY) - Additional signatures and related name, date, and title are completed.	No

## SIGNATURE(S):

As the MAG member agency'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:	
Name:	Emile Schmid, P.E.
Title:	City Engineer
Date:	10/21/2013

### Complete the following ONLY if this is a Safe Routes to School Project.

Note: All signatures indicate an agreement in principle and a partnership on this project between the applicant and the signing organization. Although not all signatures are required, applications that include more signatures will be ranked higher

**School/Site Official (required):**

(Principal, assistant principal, teacher-in-charge, PE Teacher, SRTS coordinator)

Signature:	
Name:	
Title:	
Date:	

**School District official (required):**

Signature:	
Name:	
Title:	
Date:	

**Law Enforcement Official (required):**

Signature:	
Name:	
Title:	
Date:	