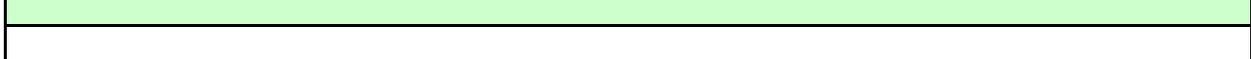




Transportation Alternatives Application for  
FY 2015, 2016, and 2017 Projects



**79th Avenue Transit Area HAWK**



**City of Phoenix**



**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)**

PART A - CONTACT AND PROJECT DESCRIPTION	
<b>Contact Information</b>	
1. Name of Sponsoring Agency	Phoenix
2. Agency Contact Name	Marshall Riegel MS P.E.
3. Phone Number of Agency Contact	602 534 5351
4. E-Mail Address of Agency Contact	<a href="mailto:marshall.riegel@phoenix.gov">marshall.riegel@phoenix.gov</a>
5. Mailing Address of Agency Contact	200 W. Washington St, Phoenix, AZ
<b>Project Description</b>	
6. Please provide the Project Title.	79th Avenue Area HAWK
7. Please provide a concise, specific description of the project (250 character limit):	
<p style="text-align: center;">This project will provide connectivity to schools and nearby neighborhoods as well as provide assistance to transit users and special needs pedestrian areas as well as a major employer.</p>	
8. Please provide the project limits:	
<p style="text-align: center;">The project consists of one site. The site is centred around a planned and funded future park and ridemajor employer on 19th Avenue near downtown.</p>	
<b>Safe Routes to School (if project is NOT a Safe Routes to School project, proceed to Part B)</b>	
9. School Name	Manuel Pena Elementary , Cartwright Middle School
10. School Address	7935 West Cartwright Avenue
11. School City, State, ZIP Code	<a href="#">Phoenix, AZ</a>

**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 type="checkbox"/> Bicycle lane (5' min. with curb/gutter)	
<input type="checkbox"/> Shared-use path (10' min.)	Other:
<input type="checkbox"/> Detached Sidewalk with 4' min. buffer	<input type="text" value="High Activity Pedestrian CrossWalk"/>
<input 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 checked="" type="checkbox"/> 1 Signalized midblock crossing/HAWK	<input checked="" type="checkbox"/> 1 Number of bicycle/pedestrian counting devices
<input type="checkbox"/> Countdown Pedestrian Signal	Other:
<input type="checkbox"/> Number of Bike racks/lockers	<input type="text"/>
<input type="checkbox"/> Number of Drinking Fountains	
<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.

This location is expected to produce high pedestrian crossing volumes with moderately high vehicle volumes that must be traversed over 4 lanes of traffic offering no pedestrian refuge points along the path upon completion of the Transit Center project.

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

This project will install HAWK beacons which when activated by pedestrians will signal vehicle traffic to stop allowing the pedestrians to traverse the roadway in a safe manner.

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

Improved neighborhood connectivity and improve safety for school routes. Reduce interruptions to traffic flow.

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.

79th Ave & Encanto 2-mile ped and Bike crash history  
 From 2008 - 2012 there were 200 pedestrian and bike crashes with two miles of this segment. Of those 178 resulted in an injury and 8 in a fatality. 88 pedestrians and bicyclist were children under the age of 18, 32 of those hit during school hours. 136 males and 62 females were struck (1 person's gender was unknown.) 122 of these collisions were reported during daylight leaving 78 occurring at night or twilight.

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="checkbox"/> Wide sidewalk (8' min.)	<input type="text"/>
<input type="checkbox"/> Grade-separated crossing (overpass or underpass)	
<input checked="" type="checkbox"/> X Signalized crossing/Ped countdown/HAWK	Other
<input type="checkbox"/> Lighting	<input type="text"/>
<input type="checkbox"/> Striping/re-striping of roadway	
<input type="checkbox"/> Countdown signals	

PART B-PROJECT DESCRIPTION	
8. How does this project improve upon an existing safety issue?	<div style="border: 1px solid black; background-color: #e0ffe0; padding: 5px;">                     This project provides a "signalized" crossing allowing for regulated crossings.                 </div>
9. How does the project improve ADA facilities for persons with disabilities?	<div style="border: 1px solid black; background-color: #e0ffe0; padding: 5px;">                     N/A                 </div>
10. How does the project create a sense of place?	<div style="border: 1px solid black; background-color: #e0ffe0; padding: 5px;">                     The enabled crossings provide for greater connectivity between schools, transit riders and special needs persons in going from one neighborhood area to another and assist a major employer employees in getting from the parking lot                 </div>
11. Connectivity: (Check all that apply)	<div style="border: 1px solid black; padding: 5px;"> <div style="margin-bottom: 10px;"> <input checked="" type="checkbox"/> Project fills a gap in the system                      Explain:  <div style="border: 1px solid black; background-color: #e0ffe0; padding: 2px;">                         This project will assist pedestriains access schools, transit faciclites and enable special needs person to safely                     </div> </div> <div style="margin-bottom: 10px;"> <input type="checkbox"/> Project connects to other local bikeways                      List of connected bikeways:  <div style="border: 1px solid black; background-color: #e0ffe0; height: 15px; width: 100%;"></div> </div> <div style="margin-bottom: 10px;"> <input type="checkbox"/> Multi Jurisdicional Project                      List of Participating Jurisdictions:  <div style="border: 1px solid black; background-color: #e0ffe0; height: 20px; width: 100%;"></div> </div> <div> <input type="checkbox"/> Total length of facilities connected by this project (in miles)                 </div> </div>
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.	<div style="border: 1px solid black; padding: 5px;"> <div style="margin-bottom: 5px;"> <input checked="" type="checkbox"/> 10 Within 1/4 mile                      List routes and frequency:  <div style="border: 1px solid black; background-color: #e0ffe0; padding: 2px;">                         Thomas Road                     </div> </div> </div>
13. Number of major transit facilities (park and rides, transit centers, etc.) served by this project:	<div style="border: 1px solid black; padding: 5px;"> <div style="margin-bottom: 5px;"> <input type="checkbox"/> 0 Within 1/4 mile                      List:  <div style="border: 1px solid black; background-color: #e0ffe0; height: 20px; width: 100%;"></div> </div> </div>
14. Describe how this project will improve access from nearby neighborhoods and/or adjacent uses:	<div style="border: 1px solid black; background-color: #e0ffe0; padding: 5px;">                     The HAWK beacons will create regulated opportunity to cross the street such that pedestrians will be assisted in traversing between neighboring areas.                 </div>

**PART B-PROJECT DESCRIPTION**

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

Within 1/4 mile  
List:

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):

Within 1/4 mile  
List:

Desert Sky Mall, Cricket Pavilion

17. Number of K-8 public schools this project will benefit:

Within 1/4 mile  
List:

Manuel Pena Elementary, Cartwright Middle School

18. Number of other schools (charter schools, high schools, colleges, and universities) this project will benefit:

Within 1/4 mile  
List:

19. What are the demographics of the area served:

[MAG Demographic Mapping](#)

People Per Square Mile

% 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:

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:

[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)

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.

ADT Estimate

Date Counted

Name of road the traffic count was taken from

Description of Methodology and Source used for the ADT Estimate

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.

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.

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:

PART B-PROJECT DESCRIPTION															
26. Please describe any utility conflicts that will need to be addressed.	<div style="border: 1px solid black; background-color: #e0ffe0; padding: 10px; min-height: 60px;">                     No known utility conflicts.                 </div>														
27. Guidelines used to develop project: (Check all that apply)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <table style="width: 100%; border-collapse: collapse;"> <tr><td><input type="checkbox"/></td><td>AASHTO Guide for Bicycle Facilities</td></tr> <tr><td><input type="checkbox"/></td><td>MAG Pedestrian Policies and Design Guidelines</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> </td> <td style="width: 50%; vertical-align: top; padding-left: 20px;">                     Other:  <div style="border: 1px solid black; background-color: #e0ffe0; padding: 5px; min-height: 30px;">                         M.U.T.C.D.                     </div> </td> </tr> </table>	<table style="width: 100%; border-collapse: collapse;"> <tr><td><input type="checkbox"/></td><td>AASHTO Guide for Bicycle Facilities</td></tr> <tr><td><input type="checkbox"/></td><td>MAG Pedestrian Policies and Design Guidelines</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 type="checkbox"/>	AASHTO Guide for Bicycle Facilities	<input type="checkbox"/>	MAG Pedestrian Policies and Design Guidelines	<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	Other: <div style="border: 1px solid black; background-color: #e0ffe0; padding: 5px; min-height: 30px;">                         M.U.T.C.D.                     </div>
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<input type="checkbox"/>	NACTO Urban Bikeway Design Guide														
<input type="checkbox"/>	RPTA Bus Stop Program and Standards														
28. Jurisdiction has the following policies for improved bicycle/shared use facilities:	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 85%;">With new development and capital improvement projects, bike lanes on arterial streets are:</td> <td style="width: 15%; text-align: center;"><input type="checkbox"/> 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="checkbox"/> 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="checkbox"/> Recommend</td> </tr> <tr> <td>With new development or during development retrofits, shared-use paths are:</td> <td style="text-align: center;"><input type="checkbox"/> 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="checkbox"/> Yes</td> </tr> <tr> <td>Complete Streets Policy</td> <td style="text-align: center;"><input type="checkbox"/> Yes</td> </tr> </table>	With new development and capital improvement projects, bike lanes on arterial streets are:	<input type="checkbox"/> Recommend	With new development and capital improvement projects, bike lanes on collector streets are:	<input type="checkbox"/> Recommend	With pavement restoration or regular pavement maintenance on arterial streets, bike lanes are:	<input type="checkbox"/> Recommend	With new development or during development retrofits, shared-use paths are:	<input type="checkbox"/> Not Addressed	Bicycle program implemented, including bike education, safety events, and bike maps	<input type="checkbox"/> Yes	Complete Streets Policy	<input type="checkbox"/> Yes		
With new development and capital improvement projects, bike lanes on arterial streets are:	<input type="checkbox"/> Recommend														
With new development and capital improvement projects, bike lanes on collector streets are:	<input type="checkbox"/> Recommend														
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Bicycle program implemented, including bike education, safety events, and bike maps	<input type="checkbox"/> Yes														
Complete Streets Policy	<input type="checkbox"/> Yes														
29. The project is: (Check one)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;"><input type="checkbox"/></td> <td style="width: 15%;">Identified in General Plan, council adopted policy, or Capital Improvements Program (provide source)</td> <td style="width: 80%;">                     List:  <div style="border: 1px solid black; background-color: #e0ffe0; padding: 5px; min-height: 20px;"></div> </td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Consistent with general policy/practices, but not formally identified (provide source)</td> <td>                     Explain:  <div style="border: 1px solid black; background-color: #e0ffe0; padding: 5px; min-height: 20px;">                         Site studied as part of formal department HAWK analysis process.                     </div> </td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Not addressed by jurisdiction's plans, policies, or practices</td> <td>                     Explain:  <div style="border: 1px solid black; background-color: #e0ffe0; padding: 5px; min-height: 20px;"></div> </td> </tr> </table>	<input type="checkbox"/>	Identified in General Plan, council adopted policy, or Capital Improvements Program (provide source)	List: <div style="border: 1px solid black; background-color: #e0ffe0; padding: 5px; min-height: 20px;"></div>	<input checked="" type="checkbox"/>	Consistent with general policy/practices, but not formally identified (provide source)	Explain: <div style="border: 1px solid black; background-color: #e0ffe0; padding: 5px; min-height: 20px;">                         Site studied as part of formal department HAWK analysis process.                     </div>	<input type="checkbox"/>	Not addressed by jurisdiction's plans, policies, or practices	Explain: <div style="border: 1px solid black; background-color: #e0ffe0; padding: 5px; min-height: 20px;"></div>					
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<input type="checkbox"/>	Not addressed by jurisdiction's plans, policies, or practices	Explain: <div style="border: 1px solid black; background-color: #e0ffe0; padding: 5px; min-height: 20px;"></div>													
30. Identify the organization(s) responsible for on-going maintenance and repairs of the project:	<div style="border: 1px solid black; background-color: #e0ffe0; padding: 10px; min-height: 60px;">                     City of Phoenix Street Transportation Department Traffic Services Division.                 </div>														
31. How will the applicant measure the success of this project?	<div style="border: 1px solid black; background-color: #e0ffe0; padding: 10px; min-height: 60px;">                     Number of ped activations.                 </div>														
32. 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; background-color: #e0ffe0; padding: 10px; min-height: 60px;">                     The controller will keep a record of the activations which can be accessed remotely from the TMC or by a field tech retrieving directly from the controller.                 </div>														
33. 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; background-color: #e0ffe0; padding: 10px; min-height: 60px;">                     Direct communication with the involved schools, neighborhood or council office will determine the need for such a component or ribbon cutting ceremony. The department PIO coordinates such efforts.                 </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"

# 79th Av & Encanto Blvd Pedestrian Improvement Project



Project Location



Bus Stops



School Locations



Fire Station

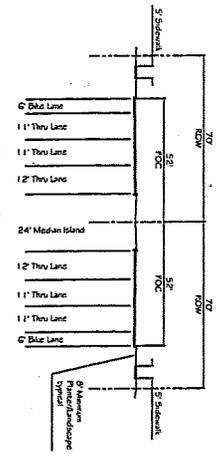


79<sup>th</sup> Av & Encanto Blvd looking Southbound

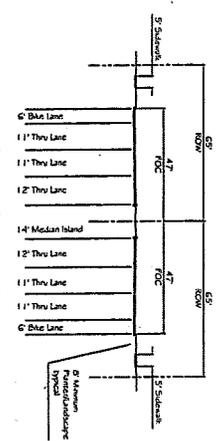


79<sup>th</sup> Av & Encanto Blvd looking Northbound

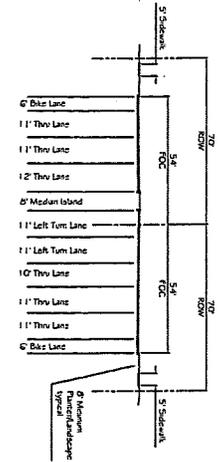




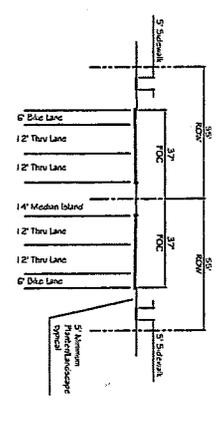
**Cross Section A**  
 (104' FOC/140' ROW)  
 BL-3-Median-3-BL



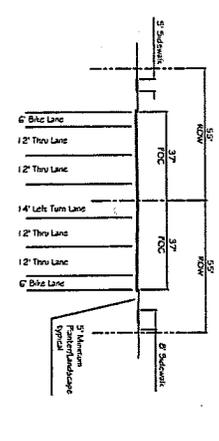
**Cross Section B**  
 (94' FOC/130' ROW)  
 BL-3-Median-3-BL



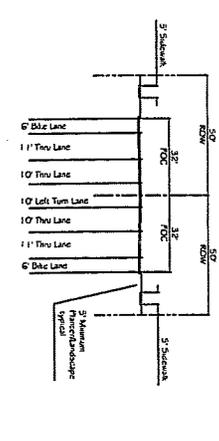
**Arterial Intersection Flare**  
 (108' FOC/140' ROW)  
 BL-3-Median-3-BL



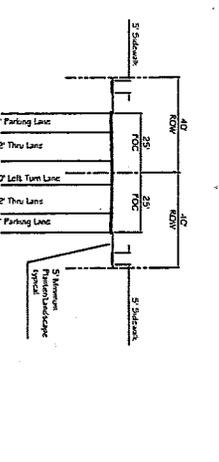
**Cross Section CM**  
 (74' FOC/110' ROW)  
 BL-3-Median-3-BL



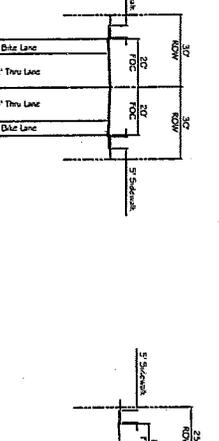
**Cross Section C**  
 (74' FOC/110' ROW)  
 BL-2-TWLTIC-2-BL  
 (Continuous Left Turn Lane)



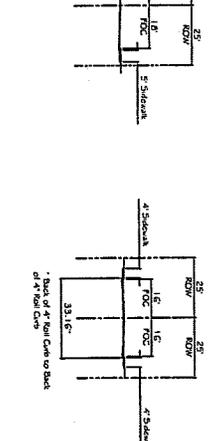
**Cross Section D**  
 (64' FOC/100' ROW)  
 BL-2-TWLTIC-2-BL  
 (Continuous Left Turn Lane)



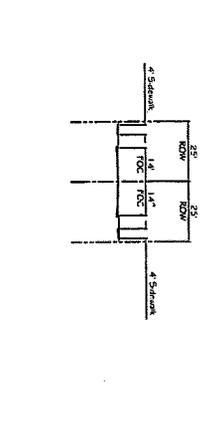
**Cross Section E**  
 (50' FOC/80' ROW)  
 BL-1-TWLTIC-1-BL or PL-1-TWLTIC-1-PL  
 (Continuous Left Turn Lane)



**Cross Section F**  
 (40' FOC/60' ROW)  
 BL-1-1-BL or PL-1-1-PL



**Cross Section G**  
 (36' FOC/50' ROW)



**Cross Section H**  
 (32' FOC/50' ROW)



**Cross Section I**  
 (28' FOC/50' ROW)

- NOTES:**
- 1 - All cross sections are typical and may differ from approved project cross section.
  - 2 - Lane widths and configuration are conceptual only. Final lane widths and configuration to be approved by Street Transportation Department.
  - 3 - Additional right of way or easements may be required for but not limited to drainage, utilities, streetlights, traffic signals, slope rights, irrigation facilities, and trails.

DRAFT  
 September 2008

**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>	City of Phoenix	<b>Project Title:</b>	Central Phoenix Area HAWKS	<b>Application Date:</b>	
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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	\$25,000.00	\$25,000.00	No	\$0.00	\$25,000.00		
	3. ENVIRONMENTAL DETERMINATION (Infrastructure projects, including technical supporting documents)	LS	1	\$30,000.00	\$30,000.00	No	\$0.00	\$30,000.00		
	4. HAZMAT ASSESSMENT	LS	1	\$15,000.00	\$15,000.00	No	\$0.00	\$15,000.00		
	<b>Subtotal Scoping (Part A)</b>				<b>\$70,000.00</b>		<b>\$0.00</b>	<b>\$70,000.00</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	\$55,000.00	\$55,000.00	No	\$0.00	\$55,000.00		
	2. GEOTECHNICAL INVESTIGATION and Materials & Pavement Design Report	LS	1	\$0.00	\$0.00	No	\$0.00	\$0.00		
	3. DRAINAGE REPORT	LS	1	\$0.00	\$0.00	No	\$0.00	\$0.00		
	4. SWPPP	LS	1	\$0.00	\$0.00	No	\$0.00	\$0.00		
	<b>Subtotal PE (Part B)</b>				<b>\$55,000.00</b>		<b>\$0.00</b>	<b>\$55,000.00</b>		
<b>Subtotal Preliminary Engineering (Part A + Part B)</b>					<b>\$125,000.00</b>		<b>\$0.00</b>	<b>\$125,000.00</b>		
C. Right-of-Way Acquisition	1. Right-of-Way Acquisition	LS	1	\$0.00	\$0.00	No	\$0.00	\$0.00		
<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	\$0.00	\$0.00	No	\$0.00	\$0.00		
<b>Subtotal Utility Relocation (Part D)</b>					<b>\$0.00</b>		<b>\$0.00</b>	<b>\$0.00</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	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Site Preparation		LS	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Demolition	Sawcut	LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Remove Structures and Obstructions	LS	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Remove Fencing	LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Remove Structural Concrete	CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Remove Asphaltic Concrete Pavement	CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Remove Concrete Sidewalks, Slabs	CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Hazmat Abatement		LS	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Retaining Wall - Reinforced Concrete Cantilevered		SF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Earthwork	General Excavation	CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Drainage Excavation	CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Structural Excavation	CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Structural Backfill	CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Borrow (In Place)	CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Curb & Gutter		LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Aggregate Base		CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Pathway Or Sidewalk Materials	Concrete	SF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Colored Concrete	SF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Stamped Color Concrete	SF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Precast Concrete Pavers	SF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Asphaltic Concrete	Ton	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Polymer or Resin Stabilized Surface	SF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Crosswalk Enhancement	Concrete Pavers	SF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Stamped Asphalt	SF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Stamped Concrete	SF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Concrete	SF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Integral Color Concrete	SF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Pedestrian ADA Ramp		SF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Culvert Extensions		LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
Pedestrian Lighting Including Conduit And Trenching		Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00		
Handrail	Standard	LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00		
	Decorative	LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00		
<b>Subtotal Hardscape Construction</b>					<b>\$0.00</b>		<b>\$0.00</b>	<b>\$0.00</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>	City of Phoenix	<b>Project Title:</b>	Central Phoenix Area HAWKS	<b>Application Date:</b>	
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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	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Trees (15 Gallon Size)	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Trees (5 Gallon Size)	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Shrubs (5 Gallon Size)	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Shrubs (1 Gallon Size)	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Cactus (5 Gallon Size)	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Mulch	Decomposed Granite	CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Organic	CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Topsoil	CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Seeding	Acre	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Turf Sod	SY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Boulders	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Irrigation System	Drip	SF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Turf	SF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Sleeving For Irrigation System	Directional Bore	LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Cut and Patch	LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Landscape Header Curb	LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Landscape Establishment	LS	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Subtotal Landscaping & Irrigation Items					\$0.00		\$0.00	\$0.00
	3. Site Furnishings	Benches	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Seatwalls	LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Bike Racks	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Trash Receptacles	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Drinking Fountains	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Signage (Standard Traffic Control)	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Signage (Wayfinding)	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Tree Grates	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Subtotal Site Furnishings					\$0.00		\$0.00	\$0.00
		4. Other Construction Items. Also, Itemized Line Items For Non-Infrastructure Projects. (Insert Additional Rows If Necessary)	Sign Structure	Each	1	\$50,000.00	\$50,000.00	Yes	\$47,150.00	\$2,850.00
	Foundation		Each	1	\$27,000.00	\$27,000.00	Yes	\$25,461.00	\$1,539.00	
	Conduits & Conductors		LS	1	\$17,000.00	\$17,000.00	Yes	\$16,031.00	\$969.00	
	Communication Devices		EACH	1	\$12,000.00	\$12,000.00	Yes	\$11,316.00	\$684.00	
	Power Pedestal		EACH	1	\$38,000.00	\$38,000.00	Yes	\$35,834.00	\$2,166.00	
	Controller		EACH	1	\$37,500.00	\$37,500.00	Yes	\$35,362.50	\$2,137.50	
					1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
					1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
					1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
					1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
	Subtotal Other Construction					\$181,500.00		\$171,154.50	\$10,345.50	
	5. Mobilization And Administration Costs	Contractor Mobilization	LS	1	\$22,687.50	\$22,687.50	No	\$0.00	\$22,687.50	
		Traffic Control	LS	1	\$18,150.00	\$18,150.00	Yes	\$17,115.45	\$1,034.55	
		Construction Survey & Layout	LS	1	\$1,815.00	\$1,815.00	Yes	\$1,711.55	\$103.46	
		Construction Contingencies	LS	1	\$36,300.00	\$36,300.00	Yes	\$34,230.90	\$2,069.10	
		Construction Administration	LS	1	\$27,225.00	\$27,225.00	Yes	\$25,673.18	\$1,551.83	
	Subtotal Mobilization & Administration Costs					\$106,177.50		\$78,731.07	\$27,446.43	
Subtotal Construction Or Implementation Cost (Part E)					\$287,677.50		\$249,885.57	\$37,791.93		
F. Total Scoping, PE, Right-of-Way Acquisition, Utility Relocation, and Construction (Part A, B, C, D, and E)					\$412,677.50		\$249,885.57	\$162,791.93		
G. Adot Fee For Pe Reviews And Staff Charges (The higher of \$20,000 or 2% of Total Cost (Part F))					\$20,000.00	No	\$0.00	\$20,000.00		
H. Total Project Cost Including ADOT Fees (Part F + Part G)					\$432,677.50		\$249,885.57	\$182,791.93		

**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	\$125,000	
3. Right of way	\$0	
4. Utilities	\$0	
5. Construction	\$287,678	
6. Total Cost	\$432,678	

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

8. Expected Annual Maintenance Cost

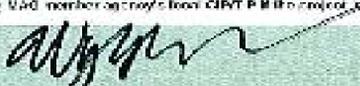
9. Identify Source of Maintenance Funds

Requested MAG Programming	Year	Local Funding Source	Local Cost	Federal Cost	Total Cost
10. Design	2014	Other	\$125,000	Not Available	\$125,000
11. ADOT Fee	2014	Other	\$20,000	Not Available	\$20,000
12. Right of way and Utilities			\$0	Not Available	\$0
13. Construction	2015	Other	\$37,792	\$249,886	\$287,678
14. Total Costs			\$182,792	\$249,886	\$432,678

PART F - SIGNATURE AND CHECKLIST	
<h2>Checklist</h2>	
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	<input type="checkbox"/>
<b>PART A - Contacts and Project Description Fields</b>	<b>Complete?</b>
Contact Information, fields 1 – 5 are complete	<input type="checkbox"/>
Project Description, fields 6 - 8 are complete	<input type="checkbox"/>
Safe Routes to School, fields 9-12 are complete (if applicable)	<input type="checkbox"/>
<b>PART B - Project Description</b>	<b>Complete?</b>
Fields 1 - 11 (Project Description) are complete	<input type="checkbox"/>
Fields 12– 14 (Transit and Access) are complete	<input type="checkbox"/>
Fields 15 – 19 (Attractors and Demographics) are complete	<input type="checkbox"/>
Fields 20 – 26 (Traffic, Environmental, ROW, and Utilities) are complete	<input type="checkbox"/>
Fields 27 – 29 (Guidelines, Policies, and Plans) are complete	<input type="checkbox"/>
Fields 30 – 33 (Maintenance and Performance Measurement) are complete	<input type="checkbox"/>
<b>PART C - Required Attachments</b>	<b>Complete?</b>
Field 1 - Project map is provided in the printed application and the PDF application	<input type="checkbox"/>
Field 2 - Up to 4 photos of existing conditions are provided in the printed application and the PDF application (two 4x6 per page).	<input type="checkbox"/>
Field 3 - Cross-section(s) provided in the printed application and the PDF application.	<input type="checkbox"/>
(OPTIONAL)- Up to 2 photos/renderings of the completed project are provided in the printed application and the PDF application.	<input type="checkbox"/>
(OPTIONAL) - Crash report(s) are provided in the printed application and the PDF application	<input type="checkbox"/>
(OPTIONAL) - GIS coverage (shapefile or geodatabase) is provided on the CD with the application.	<input type="checkbox"/>
<b>PART D - Cost Estimate Worksheet</b>	<b>Complete?</b>
Sponsoring Agency, Project Title, and Application Date are complete	<input type="checkbox"/>
Part A - Scoping is complete	<input type="checkbox"/>
Part B - Final Preliminary Engineering Design is complete	<input type="checkbox"/>
Part C - Right-of-Way Acquisition is complete	<input type="checkbox"/>
Part D - Utility Relocation is complete	<input type="checkbox"/>
Part E - Construction or Implementation is complete	<input type="checkbox"/>
Parts F, G, and H - Costs are complete and accurate	<input type="checkbox"/>
<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	<input type="checkbox"/>
Field 7 - 9 are complete	<input type="checkbox"/>
Fields 10 – 13 Years are complete	<input type="checkbox"/>
Fields 10 – 13 Local Funding Sources are complete	<input type="checkbox"/>
Fields 10 – 13 Local Costs are complete and accurate	<input type="checkbox"/>
Field 10 - 13 Federal Costs are complete and accurate	<input type="checkbox"/>
Field 14 Total Costs are complete and accurate	<input type="checkbox"/>
<b>PART F - Signature and Checklist</b>	<b>Complete?</b>
Entire checklist is completed.	<input type="checkbox"/>
Form is signed by MAG member agency's manager/administrator or designated representative.	<input type="checkbox"/>
Name, title and date fields under the signature are completed.	<input type="checkbox"/>
(SAFE ROUTES TO SCHOOL PROJECTS ONLY) - Additional signatures and related name, date, and title are completed.	<input type="checkbox"/>

## 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(S):	
As the stated member agency's manager/administrator/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:	Wylie Beal, Jr. PC PhD
Title:	City of Phoenix Street Transportation Director
Date:	10/22/2013

Complete the following ONLY if this is a Safe Routes to School Project.	
Please note: If this application indicates an agreement in principle and a partnership on this project between the applicant and the sponsoring agency, although not a legal agreement, applications that include such a statement will be ranked higher.	
Section 4810 (41) requires agencies to:	
(1) assign a dedicated staff person to coordinate with the PE Teacher, SRTS coordinator	
Signature:	
Name:	
Title:	
Date:	
School District Official (required):	
Signature:	
Name:	
Title:	
Date:	
Law Enforcement Official (required):	
Signature:	
Name:	
Title:	
Date:	