

Transportation Alternatives (TA) / CMAQ Application For FY 2021 and FY 2022 Projects



Due: September 25, 2017 at 10:00 a.m.

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

TA Amount Available: \$4,178,521, and \$ 4,248,246 (\$8,426,767 total)

CMAQ Amount Available: \$8,765,780, and \$8,905,080 (\$17,670,860 total)



INSTRUCTIONS AND SCHEDULE

The due date and time for project applications to be submitted to MAG is

Monday, September 25, 2017 at 10:00 a.m.

General Instructions

This Excel form is to be used to request federal Transportation Alternatives (TA) and CMAQ funding available through the Maricopa Association of Governments (MAG) for projects to be included in the FY2018-FY 2022 MAG Transportation Improvement Program. Funding is available for Federal Fiscal Year (FFY) 2021 and 2022.

This application form includes:

- Instructions and Schedule
- Cover Sheet
- Part A - Contact and Project Description
- Part B - Detailed Project Description
- Part C - Required and Optional Attachments
- Part D - Cost Estimate Spreadsheet
- Part E - Total Project Budget and Schedule
- Part F - Checklist and Signature Page
- GIS Submittal Instructions
- ADOT Fee Sheet
- Transportation Alternatives Program and Map
- Congestion Mitigation Air Quality Program and Map

Each part is a separate tab of this excel file. Please complete the Cover Sheet and Parts A - F. Alternative application forms are available upon request.

Transmittal Instructions

All applications are due on **Monday, September 25, 2017 by 10:00 a.m.** Both an electronic and printed copy of the application and all attachments are required.

The electronic copy of the application includes the following:

- a. A completed Excel spreadsheet application in MS Excel format (Please do not send a PDF or Fax instead of the spreadsheet)
- b. A PDF or FAXed copy of Part F of the Excel spreadsheet with the signature block signed and dated
- c. A PDF or FAXed copy of all required attachments

The printed copy of the application includes the following:

- a. A printout of the completed Excel spreadsheet application, with the signature block in Part F signed and dated
- b. Printed copies of all required attachments

MAG Mailing Address

Electronic applications should be sent to the following address:

[mailto: MAG Staff](mailto:MAG Staff)

Printed copies should be addressed as follows:

Maricopa Association of Governments
ATTN: Teri Kennedy,

302 N. 1st Avenue, Suite #300,
Phoenix, AZ 85003.

If a complete, signed electronic copy is received by the submittal deadline, applicants have five working days to submit a printed copy of the application.

Late and/or incomplete applications will not be accepted.

INSTRUCTIONS AND SCHEDULE

The due date and time for project applications to be submitted to MAG is
Monday, September 25, 2017 at 10:00 a.m.

Application Workshops and Open Working Group Meeting Schedule*

Date	Time	Room	Workshop/Open Working Group
Monday, August 21, 2017	10:00-Noon	Saguaro	Workshop on MAG Transportation Programming and Federal Fund Project Applications
Tuesday, September 12, 2017	10:00-11:00 AM	Chaparral	Open Working Group - Federal Fund Project Applications
Tuesday, September 19, 2017	11:00-Noon	Chaparral	Open Working Group - Federal Fund Project Applications

* All meetings will be held on the 2nd Floor of the MAG Offices at 302 North 1st Ave, Phoenix, Arizona 85003

MAG CONTACT INFORMATION

Contact Name	Phone	E-Mail Address
MAG Offices	602-254-6300	
Jason Stephens	602-254-6300	Jstephens@azmag.gov
Teri Kennedy	602-254-6300	TKennedy@azmag.gov
Stephen Tate	602-452-5010	STate@azmag.gov



Transportation Alternatives / CMAQ Application for
FY 2021 and FY 2022 Projects

Multi-Modal Connections to Thomas Rd Bus Rapid Transit (Phase 1)

City of Phoenix

**APPLICATIONS ARE DUE AT MAG OFFICES BY
Monday, September 25, 2017 at 10:00 a.m.**

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

Phoenix: Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)**PART A - CONTACT AND PROJECT DESCRIPTION****Contact Information**

1. Name of Sponsoring Agency	Phoenix
2. Agency Contact Name	Eileen Yazzie
3. Phone Number of Agency Contact	602.534.5692
4. E-Mail Address of Agency Contact	eileen.yazzie@phoenix.gov
5. Mailing Address of Agency Contact	200 W. Washington Street, 5th Floor, Phoenix, AZ 85003

Project Description

6. Please provide the Project Title.	Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)
7. Please provide a concise, specific description of the project (250 character limit):	
<p>The proposed project will provide multi-modal enhancements on north/south streets that connect to Thomas Road between 27th Avenue east of 43rd Avenue, and spot improvements on Thomas Road. Bus Rapid Transit (BRT) on Thomas Road is scheduled to open in 2023 (or beyond), and this project supports enhanced and safer, walking and bicycling connections to Thomas Road. This will provide easier access from neighborhoods, schools, and places of employment to the Thomas Road BRT. Today, the current Thomas Road bus route is the most heavily used bus route in the state; enhancements to north and south roads provides better transit accessibility today and in the future.</p>	
8. Please provide the project limits:	
<p>Thomas Road at 27th Avenue; 31st Avenue: Grand Canal to Encanto Boulevard; Thomas Road: 35th Avenue to 31st Avenue; 39th Avenue: Osborn to Encanto; Thomas Road: 39th Avenue to 43rd Avenue</p>	

Phoenix : Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)

PART B-DETAILED 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 14-20, 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. Please select which funding source(s) this project is applying for. Check all that apply.

- Congestion Mitigation and Air Quality (CMAQ)
- Transportation Alternatives (TA)

2. What type of project is this? (Check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Bicycle Lane (4' min. w/o curb/gutter) | <input type="checkbox"/> Shoulder paving is within 4-miles of a PM-10 Monitor |
| <input checked="" type="checkbox"/> Bicycle Lane (5' min. with curb/gutter) | <input checked="" type="checkbox"/> Wide Sidewalk (8' min.) |
| <input checked="" type="checkbox"/> Buffered Bike Lane | <input checked="" type="checkbox"/> Detached Sidewalk with 4' min. buffer |
| <input type="checkbox"/> Protected Bike Lane | <input type="checkbox"/> Signalized Crossing |
| <input type="checkbox"/> Shared-use path (10' min.) | Other: |
| <input checked="" type="checkbox"/> Sidewalk (5' min.) | <input type="text" value="Minor Landscaping, signage, green painted bicycle markings, new curb and gutter in some areas, ADA upgrades, and improved access points for multiple frontage roads."/> |
| <input type="checkbox"/> Planning Study | |

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

- | | |
|--|-----------------------------------|
| <input type="checkbox"/> Bridge (overpass) | Other: |
| <input type="checkbox"/> Tunnel (underpass) | <input type="text" value="None"/> |
| <input type="checkbox"/> Signalized midblock crossing/HAWK | |
| <input type="checkbox"/> Countdown Pedestrian Signal | |

4. What amenities are included in this project?

- | | |
|---|---|
| <input type="checkbox"/> Number of Bike racks/lockers | <input type="checkbox"/> Number of Seating/Rest Area(s) |
| <input type="checkbox"/> Number of Drinking Fountains | <input type="checkbox"/> Number of bicycle/pedestrian counting devices |
| <input type="text" value="30"/> Number of Way-finding Signs | <input type="checkbox"/> Number of bicycle/pedestrian counting devices |
| <input type="checkbox"/> Number of Trash receptacles | Other: |
| <input type="text" value="50"/> Number of Trees | <input type="text" value="Bicyclist and Pedestrian frontage road access improvements"/> |
| <input type="checkbox"/> Number of new openings in street walls | |
| <input type="checkbox"/> Number of Shade Structures | |

Phoenix : Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)

PART B-DETAILED PROJECT DESCRIPTION

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

Thomas Road at 27th Avenue: has existing sidewalks in disrepair and lacks shade.

31st Ave - Grand Canal to Encanto Boulevard: missing partial sidewalks and has no bike lanes.

Thomas Road - 35th Avenue to 31st Avenue: existing sidewalks.

39th Avenue: Osborn to Encanto: bicycle lanes, but intersection is missing north/south bike lanes, and vehicle lanes are oversized (14ft to 22ft).

Phoenix : Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)

PART B-DETAILED PROJECT DESCRIPTION

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

Thomas Road at 27th Avenue: replace and/or widen sidewalks. Widen sidewalks in front of QT, widen sidewalks on north side, add landscaping or shade structure on northwest corner.

31st Avenue - Grand Canal to Encanto: Add bike lanes/stripping to whole corridor, bike detection at intersection, add sidewalks on both sides from Grand Canal to Grand Avenue, add connecting sidewalk pieces on west side from Grand Avenue Frontage Road to Encanto Boulevard, add new sidewalk on east side from Grand Avenue Frontage Road to Encanto Boulevard.

Southside of Thomas: 35th Avenue to 31st Avenue, widen sidewalks to 8 feet (exclude frontage road portion), add in some landscaping, stripe and sign frontage road for bicycling, and modify access at 33rd Avenue.

39th Avenue: Osborn to Encango: Extend bike lanes to intersection, narrow vehicle lanes to included buffered bicycle lane and/or parking

Thomas: 39th to 43rd Avenue: modify frontage road accesses and add in bike facility paint and signage

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

Thomas Road has a very high number of people walking and bikeing to the street (from the north and the south) and on the street. This is directly linked to the high number of residents using public ttransit. Thomas Road carries the largest amount of people riding a bus in the state. The Thomase Road bus also has the highest frequency of any transit route in the City, running every 8 minutes in the morning and evening periods. Analyzing just the stops between 43rd Avenue and 27th Avenue, there are between 1,135 and 1,590 people riding this bus on any given day. While this corridor has a high number of people walking, biking, and using transit, it is also unsafe. Thomas Road in it's entire corridor in Phoenix, had 105 bicycle crashes on it, and 90 crashes approaching the corridor between 2011 and 2015. Most recently, a bicyclist was hit and died on Thomas Road near 46th Avenue on September 20, 2017.

The goal of this project is to fill in the missing gaps for pedestrians and bicyclists, enhance the pedestrian atmosphere by creating larger walkways, eliminating barriers at residential frontage roads, and create transit accessible communities adjacent to the existing Thomas Road bus route, and to the future Thomas Road Bus Rapid Transit route. Additionally, elements of the project will address utilizing the residential frontage roads as safe bicycle faciiliites for bicyclists. Places proposed to widen sidewalks to 8 feet are because the adjacent street has no bicycle lanes.

Phoenix : Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)

PART B-DETAILED PROJECT DESCRIPTION

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

- Medians with pedestrian crossing islands
- Roadway Reconfiguration (Road Diet)
- Striping/re-striping to narrow vehicle lanes
- Color pavement or similar treatment
- Lighting
- Landscape buffer between sidewalk and roadway
- Rectangular Rapid Flash Beacon (RRFB)
- Driver Feedback Sign

Other

Wider sidewalks, vehicle lane width reduction with buffered bicycle lanes and/or on-street parking with bike lanes, and use of residential frontage roads for bicycle facilities.

9. Does this project include a road safety education component?

- Yes
- No

Please Explain:

10. How does this project or planning study address safety?

The main goals of this proposed project is to enhance the existing pedestrian and bicycling environment to encourage access to Thomas Road transit by way of providing safer and accessible facilities. The project is doing this by installing sidewalks, wider sidewalks, using the frontage roads as safe routes for bicyclists, narrowing vehicle lanes, adding buffers to bicycle lanes and installing wayfinding and routing signs for bicyclists at some locations.

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

Like with all City of Phoenix projects, we will upgrade all ADA ramps on each street that is part of this project. Also, the application proposes upgrading existing sidewalks to larger 6 to 10 feet sidewalks, upgrades in access to frontage roads, and in many locations, separated sidewalks from the street. This will allow for a safer and more convenient sidewalk for all users, including those with disabilities.

Phoenix : Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)

PART B-DETAILED PROJECT DESCRIPTION

12. Describe how this project will improve access from nearby neighborhoods and/or adjacent uses:

This project will improve access by providing bicycle lanes, bicycle facilities, improved sidewalks, ADA upgrades, and area wayfinding for connections into Thomas Road Transit. It also provides additional connections to major east/west bikeways on Grand Canal and Encanto Boulevard.

13. How does the project create a sense of place?

This group of improvements adds to the total transportation network for this area emphasizing the pedestrian and bicycle network as it connects transit. People are walking and biking all day long on Thomas and connecting streets, this project will enhance current conditions for safety.

14. Connectivity: (Check all that apply)

Project fills a gap in the system

Explain:

The project provides new bicycle facilities and sidewalks at select locations.

Project connects to other local bikeways

List of connected bikeways:

Grand Canal, Encanto Boulevard, and Osborn Road.

Multi Jurisdictional Project (please include letter of support (See Part C)

List of Participating Jurisdictions:

21 Total length of bikeways directly connected by this project (in miles)

15. 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.

23 Within 1/2 mile

16. Number of transit routes serviced by the transit stops in question 15 that this project will connect to. List associated route(s) and their peak frequency, using Valley Metro as the source.

4 Within 1/2 mile

List routes and frequency:

Thomas Road - Route 29, peak frequency is 8 minutes; 27th Avenue - Route 27, peak frequency is 30 minutes; 35th Avenue - Route 35, peak frequency is 15 minutes; 43rd Avenue - Route 43, peak frequency is 30 minutes

17. Number of major transit facilities (park and rides, transit centers, etc.) served by this project:

0 Within 1/2 mile

List:

Phoenix : Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)

PART B-DETAILED PROJECT DESCRIPTION

18. Number of non-commercial activity centers (parks, libraries, senior centers, recreational centers, etc.) this project will benefit:

Within 1/2 mile

List:

Ladmo Park and Adam Diaz Senior Center

19. 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 1/2 mile

List:

West Thomas Business Center

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

Within 1/2 mile

List:

PT Coe Elementary, Pueblo Del Sol Middle School, Alhambra Traditional School

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

Within 1/2 mile

List:

AZ Collegiate High School, West Phoenix High School

22. Number of activity centers for air quality cost effectiveness (i.e. bank, church, hospital, health care facility, light rail station, park-and-ride lot, office park, post office, public library, shopping area, grocery store, university or junior college):

Within 1/4 miles

List:

Urgent Care/Health Care Facility, Shopping Area, West Thomas Business Center, St. Mary's Food Bank

1/4 miles to 1/2 miles

List:

Phoenix : Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)

PART B-DETAILED PROJECT DESCRIPTION

23. What are the demographics of the area served:

[MAG Demographic Mapping](#)

5,046 People Per Square Mile

42.90% % Families in Poverty

Use the MPO/COG Demographic Mapping link above. Zoom in to your project area. On the right-hand side of the screen, under "Reporting," select "Custom Summary." Next, select "Corridor of Interest." Left-click to begin drawing. Draw a line through all census block groups 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 block groups 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.

24. 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:

Thomas Road at 27th Avenue; 31st Avenue: Grand Canal to Encanto Boulevard; Thomas Road: 35th Avenue to 31st Avenue; 39th Avenue: Osborn to Encanto; Thomas Rd: 39th Avenue to

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:

0

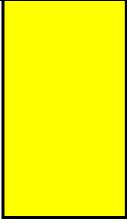
Length (in Miles)

Posted Speed Limit (MPH)

Number of Travel Lanes Before Project

Phoenix : Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)

PART B-DETAILED PROJECT DESCRIPTION



Number of Travel Lanes After Project

Phoenix : Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)

PART B-DETAILED PROJECT DESCRIPTION

25. Please provide an estimated traffic volume (ADT) on the 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

26. 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.

27. 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

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

29. Please indicate whether all parcels for this project have been inventoried.

Yes

No

Phoenix : Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)

PART B-DETAILED PROJECT DESCRIPTION

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

<input type="checkbox"/>	No Utility in or abutting the alignment	<input checked="" type="checkbox"/>	Private Structures
<input type="checkbox"/>	Canals & Drainage		
<input checked="" type="checkbox"/>	Power Lines & Cables	Other:	
<input checked="" type="checkbox"/>	Pipelines, Sewer and Water	<input style="width: 400px; height: 20px;" type="text"/>	

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

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

<input checked="" type="checkbox"/>	AASHTO Guide for Bicycle Facilities	Other: <input style="width: 300px; height: 40px;" type="text" value="Phoenix Bicycle Master Plan
Phoenix Complete Street Ordinance"/>
<input type="checkbox"/>	MAG Pedestrian Policies and Design Guidelines	
<input type="checkbox"/>	MAG Complete Streets Guide	
<input checked="" type="checkbox"/>	MAG Designing Transit Accessible Communities	
<input type="checkbox"/>	MAG Valley Path Brand & Wayfinding Signage Guidelines	
<input checked="" type="checkbox"/>	NACTO Urban Bikeway Design Guide	
<input checked="" type="checkbox"/>	RPTA Bus Stop Program and Standards	

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

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

34. The project is: (Check one)

Identified in General Plan, council adopted policy, or Capital Improvements Program (provide source)
List:

Phoenix : Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)

PART B-DETAILED PROJECT DESCRIPTION

Consistent with general policy/practices, but not formally identified (provide source)

Explain:

Bicycle Master Plan and Complete Street Ordinance. Public Transit Element of the General Plan which calls for an efficient multi-modal transportation system and the prioritization of new and expanded transit service in corridors with high percentages of transit-dependent populations.

Not addressed by jurisdiction's plans, policies, or practices

Explain:

Phoenix : Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)

PART B-DETAILED PROJECT DESCRIPTION

35. How will the applicant measure the success of this project?

By evaluation of increased walking/biking activity and reviewing collision records.

36. 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?

No

37. 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.

The project area will be included in the Phoenix Bicycle and Pedestrian Safety Program and School Safety Program both administered in the Traffic Services Division of the Street Transportation Department.

38. Will the project include wayfinding signage elements? If yes, please describe below.

Yes. Wayfinding signage will be implemented in certain areas along the corridor to show locations of major area activity centers and provide a unifying theme.

Part C - Required Attachments
<p>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.</p> <p><u>PLEASE INCLUDE EACH ATTACHMENT AS A SEPARATE .JPEG OR .PDF FILE ON YOUR APPLICATION CD.</u></p> <p>Please insert ALL attachments at the end of your printed application, in the order they are listed below. See below for alternate submission requirements for GIS coverage files.</p>
Required Attachments:
<p>1) Please attach a map showing the general location of the proposed project in relation to the region, including a north arrow.</p>
<p>2) Please attach a map with streets labeled showing the detailed location(s) of the proposed project, including a north arrow.</p>
<p>3) Please attach up to four photos indicating existing conditions in the project area (two 4x6 photos per page).</p>
<p>4) Please attach a simple diagram of the current typical cross section of the segment, that shows the right of way limits, widths, sidewalks and shoulders (if any), and the lanes of travel.</p>
OPTIONAL Attachments:
<p>(OPTIONAL) Attach up to two photos showing what the completed project will look like, if available (these can be photoshop, renderings, etc.).</p>
<p>(OPTIONAL) Attach up to three (3) letters of support for the project.</p>
<p>(OPTIONAL) If the applicant will be providing a GIS coverage (shapefile or geodatabase), please see the tab labeled "GIS Transmittal Instructions"</p>

Phoenix: Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)

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.

Sponsoring Agency: Phoenix **Project Title:** Thomas Rd. - Phase 1 **Application Date:** 9/22/2017

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	No	\$0.00	\$0.00	
	2. PROJECT ASSESSMENT REPORT or DETAILED WORKPLAN	LS	1		\$0.00	No	\$0.00	\$0.00	
	3. ENVIRONMENTAL DETERMINATION (Infrastructure projects, including technical supporting documents)	LS	1	\$6,000.00	\$6,000.00	No	\$0.00	\$6,000.00	
	4. HAZMAT ASSESSMENT	LS	1		\$0.00	No	\$0.00	\$0.00	
	Subtotal Scoping (Part A)				\$6,000.00		\$0.00	\$6,000.00	
B. Final Preliminary Engineering Design - Stages II, III, IV And PS&E	1. Plans, Special Provisions or Bid Manual, Cost Estimate & Schedules.	LS	1	\$625,000.00	\$265,000.00	No	\$0.00	\$265,000.00	
	2. GEOTECHNICAL INVESTIGATION and Materials & Pavement Design Report	LS	1		\$0.00	No	\$0.00	\$0.00	
	SRP/APS Design Fee	EA	2	\$10,000.00	\$20,000.00	No	\$0.00	\$20,000.00	
	Design Admin Costs	each	1	\$208,000.00	\$140.00	No			
	Environmental, Materials, Utility, and ROW clearances	each	1	\$116,520.00	\$116,520.00	No			
	Procurement	1	1	\$5,000.00	\$5,000.00	No			
	PIO	each	1	\$35,000.00	\$35,000.00	No			
4. SWPPP	LS	1	\$22,500.00	\$10,000.00	No	\$0.00	\$10,000.00		
Subtotal PE (Part B)				\$451,660.00		\$0.00	\$295,000.00		
Subtotal Preliminary Engineering (Part A + Part B)				\$457,660.00		\$0.00	\$301,000.00		
C. Right-of-Way Acquisition	1. Right-of-Way Acquisition	SF	7,550	\$10.00	\$175,000.00	No	\$0.00	\$175,000.00	
Subtotal Right-of-Way Acquisition (Part C)				\$175,000.00		\$0.00	\$175,000.00		
D. Utility Relocation	1. Utility Relocation	LS	1	\$249,000.00	\$249,000.00	No	\$0.00	\$249,000.00	
Subtotal Utility Relocation (Part D)				\$249,000.00		\$0.00	\$249,000.00		
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	Yes	\$0.00	\$0.00
		Site Preparation	LS	1		\$0.00	Yes	\$0.00	\$0.00
	Demolition	Sawcut	LF	1		\$0.00	Yes	\$0.00	\$0.00
		Remove Structures and Obstructions	LS	1		\$0.00	Yes	\$0.00	\$0.00
		Remove Fencing	LF	1		\$0.00	Yes	\$0.00	\$0.00
		Remove Structural Concrete	CY	1		\$0.00	Yes	\$0.00	\$0.00
		Remove Asphaltic Concrete Pavement	CY	1		\$0.00	Yes	\$0.00	\$0.00
		Remove Concrete Sidewalks, Slabs	CY	1		\$0.00	Yes	\$0.00	\$0.00
	Hazmat Abatement	LS	1		\$0.00	Yes	\$0.00	\$0.00	
	Retaining Wall - Reinforced Concrete Cantilevered	SF	1		\$0.00	Yes	\$0.00	\$0.00	
	General Excavation	CY	1		\$0.00	Yes	\$0.00	\$0.00	
Drainage Excavation	CY	1		\$0.00	Yes	\$0.00	\$0.00		

Phoenix: Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)

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.

Sponsoring Agency: Phoenix **Project Title:** Thomas Rd. - Phase 1 **Application Date:** 9/22/2017

Part	Item Description	Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)	Note(s)
	Earthwork	Structural Excavation	CY	1		\$0.00	Yes	\$0.00	\$0.00
		Structural Backfill	CY	1		\$0.00	Yes	\$0.00	\$0.00
		Borrow (In Place)	CY	1		\$0.00	Yes	\$0.00	\$0.00
	Curb & Gutter	LF	1		\$0.00	Yes	\$0.00	\$0.00	
	Aggregate Base	CY	1		\$0.00	Yes	\$0.00	\$0.00	
	Pathway Or Sidewalk Materials	Concrete	SF	1		\$0.00	Yes	\$0.00	\$0.00
		Colored Concrete	SF	1		\$0.00	Yes	\$0.00	\$0.00
		Stamped Color Concrete	SF	1		\$0.00	Yes	\$0.00	\$0.00
		Precast Concrete Pavers	SF	1		\$0.00	Yes	\$0.00	\$0.00
		Asphaltic Concrete	Ton	1		\$0.00	Yes	\$0.00	\$0.00
	Crosswalk Enhancement	Polymer or Resin Stabilized Su	SF	1		\$0.00	Yes	\$0.00	\$0.00
		Concrete Pavers	SF	1		\$0.00	Yes	\$0.00	\$0.00
		Stamped Asphalt	SF	1		\$0.00	Yes	\$0.00	\$0.00
		Stamped Concrete	SF	1		\$0.00	Yes	\$0.00	\$0.00
		Concrete	SF	1		\$0.00	Yes	\$0.00	\$0.00
	Integral Color Concrete		SF	1		\$0.00	Yes	\$0.00	\$0.00
			SF	1		\$0.00	Yes	\$0.00	\$0.00
	Pedestrian ADA Ramp	SF	1		\$0.00	Yes	\$0.00	\$0.00	
	Culvert Extensions	LF	1		\$0.00	Yes	\$0.00	\$0.00	
	Trenching	Each	1		\$0.00	Yes	\$0.00	\$0.00	
Handrail	Standard	LF	1		\$0.00	Yes	\$0.00	\$0.00	
	Decorative	LF	1		\$0.00	Yes	\$0.00	\$0.00	
Subtotal Hardscape Construction					\$0.00		\$0.00	\$0.00	

Phoenix: Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)

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.

Sponsoring Agency: Phoenix **Project Title:** Thomas Rd. - Phase 1 **Application Date:** 9/22/2017

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	Local Code Or Special Design Requirements	Each	1		\$0.00	Yes	\$0.00	\$0.00	
	Trees (15 Gallon Size)	Each	1		\$0.00	Yes	\$0.00	\$0.00		
	Trees (5 Gallon Size)	Each	1		\$0.00	Yes	\$0.00	\$0.00		
	Shrubs (5 Gallon Size)	Each	1		\$0.00	Yes	\$0.00	\$0.00		
	Shrubs (1 Gallon Size)	Each	1		\$0.00	Yes	\$0.00	\$0.00		
	Cactus (5 Gallon Size)	Each	1		\$0.00	Yes	\$0.00	\$0.00		
	Mulch	Decomposed Granite	CY	1		\$0	Yes	\$0	\$0	
		Organic	CY	1		\$0	Yes	\$0	\$0	
	Topsoil		CY	1		\$0	Yes	\$0	\$0	
	Seeding		Acre	1		\$0	Yes	\$0	\$0	
	Turf Sod		SY	1		\$0	Yes	\$0	\$0	
	Boulders		Each	1		\$0	Yes	\$0	\$0	
	Irrigation System	Drip	SF	1		\$0	Yes	\$0	\$0	
		Turf	SF	1		\$0	Yes	\$0	\$0	
	Sleeving For Irrigation System	Directional Bore	LF	1		\$0	Yes	\$0	\$0	
		Cut and Patch	LF	1		\$0	Yes	\$0	\$0	
	Landscape Header Curb		LF	1		\$0	Yes	\$0	\$0	
	Landscape Establishment		LS	1		\$0	Yes	\$0	\$0	
	Subtotal Landscaping & Irrigation Items					\$0		\$0	\$0	
	3. Site Furnishings	Benches	Each	1		\$0	Yes	\$0	\$0	
		Seatwalls	LF	1		\$0	Yes	\$0	\$0	
		Bike Racks	Each	1		\$0	Yes	\$0	\$0	
		Trash Receptacles	Each	1		\$0	Yes	\$0	\$0	
		Drinking Fountains	Each	1		\$0	Yes	\$0	\$0	
		Signage (Standard Traffic Control)	Each	1		\$0	Yes	\$0	\$0	
		Signage (Wayfinding)	Each	1		\$0	Yes	\$0	\$0	
		Tree Grates	Each	1		\$0	Yes	\$0	\$0	
		Subtotal Site Furnishings					\$0		\$0	\$0
REG CORNER ADA RAMP	EA	9.00	\$ 2,050.00	\$18,450	Yes	\$17,398	\$1,052			
LIMITED ADA RAMP	EA	3.00	\$ 1,250.00	\$3,750	Yes	\$3,536	\$214			
MIDBLOCK RAMP	EA	4.00	\$ 1,950.00	\$7,800	Yes	\$7,355	\$445			
TRUNCATED DOMES	SF	160	\$ 80.00	\$12,800	Yes	\$12,070	\$730			
5 GALLON SHRUBS	EA	400.00	\$ 20.00	\$8,000	Yes	\$7,544	\$456			
ADJUST ELECTRICAL BOX	EA	4.00	\$ 500.00	\$2,000	Yes	\$1,886	\$114			
ARCHEOLOGY TRENCHING	EA	10.00	\$ 3,100.00	\$31,000	Yes	\$29,233	\$1,767			
ASPHALT REMOVAL	SF	7,300.00	\$ 16.01	\$116,873	Yes	\$110,211	\$6,662			
BOX TREE 24"	EA	50.00	\$ 250.00	\$12,500	Yes	\$11,788	\$713			
CONCRETE DRIVEWAY ENTRANCE	SF	1,200.00	\$ 15.00	\$18,000	Yes	\$16,974	\$1,026			

Phoenix: Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)

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.

Sponsoring Agency: Phoenix **Project Title:** Thomas Rd. - Phase 1 **Application Date:** 9/22/2017

Part	Item Description	Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)	Note(s)
4. Other Construction Items. Also, Itemized Line Items For Non-Infrastructure Projects. (Insert Additional Rows If Necessary)	CONCRETE MEDIAN NOSE	SF	50.00	\$ 15.00	\$750	Yes	\$707	\$43	
	FILL	CY	90.00	\$ 7.67	\$690	Yes	\$651	\$39	
	FIRE HYDRANT REMOVE/REPLACE	EA	2.00	\$ 7,000.00	\$14,000	Yes	\$13,202	\$798	
	FOUNDATION FOR SIGN POST	EA	44.00	\$ 100.00	\$4,400	Yes	\$4,149	\$251	
	IRRIGATION MODIFY	EA	1.00	\$ 2,600.00	\$2,600	Yes	\$2,452	\$148	
	LANDSCAPING (INCL PLANTS, IRRIG, GRANITE,	SF	4,500.00	\$ 5.00	\$22,500	Yes	\$21,218	\$1,283	
	LANDSCAPE CONTROLLER AND REMOTE CONTR	EA	8.00	\$ 8,000.00	\$64,000	Yes	\$60,352	\$3,648	
	OBLITERATING EXISTING PAVEMENT MARKING	EA	100.00	\$ 1,225.00	\$122,500	Yes	\$115,518	\$6,983	
	PAVEMENT MARKING - SYMBOL	EA	13.00	\$ 70.00	\$910	Yes	\$858	\$52	
	PAVEMENT MARKING - WHITE	LF	9,600.00	\$ 2.00	\$19,200	Yes	\$18,106	\$1,094	
	PAVEMENT MARKING - YELLOW	LF	2,500.00	\$ 2.00	\$5,000	Yes	\$4,715	\$285	
	GREEN PAINT	EA	1.00	\$ 25,000.00	\$25,000	Yes	\$23,575	\$1,425	
	REMOVE CONCRETE D/W, S/W, VG, SLAB, ETC.	SF	7,200.00	\$ 6.50	\$46,800	Yes	\$44,132	\$2,668	
	RETAINING WALL	LF	445.00	\$ 175.00	\$77,875	Yes	\$73,436	\$4,439	
	SIDEWALK 4FT LOCAL STREET (<1000SF \$8)	SF	39,970.00	\$ 4.98	\$199,051	Yes	\$187,705	\$11,346	
	SIDEWALK 8-10FT MAJOR STREET (<1000SF \$12)	SF	12,020.00	\$ 12.00	\$144,240	Yes	\$136,018	\$8,222	
	SIGN POST (P-1)(PERFORATED)(SINGLE)	EA	44.00	\$ 200.00	\$8,800	Yes	\$8,298	\$502	
	SINGLE CURB	LF	315.00	\$ 22.00	\$6,930	Yes	\$6,535	\$395	
	STREETLIGHT - REMOVE/REPLACE WITH LED	EA	4.00	\$ 5,000.00	\$20,000	Yes	\$18,860	\$1,140	
	TRAFFIC SIGNAL INTERSECTION	EA	1.00	\$ 300,000.00	\$300,000	Yes	\$282,900	\$17,100	
	TREE REMOVAL	LS	8.00	\$ 1,500.00	\$12,000	Yes	\$11,316	\$684	
	VERTICLE CURB & GUTTER	LF	50.00	\$ 22.00	\$1,100	Yes	\$1,037	\$63	
	WATER METER RELOCATE	EA	1.00	\$ 800.00	\$800	Yes	\$754	\$46	
						Yes	\$0	\$0	
						Yes	\$0	\$0	
						Yes	\$0	\$0	
	Allowance for extra work	EA	1		\$0	Yes	\$0	\$0	
	Environmental Monitoring	EA	1	\$ 150,000.00	\$150,000	Yes	\$141,450	\$8,550	
Procurement	EA	1	\$ 8,000.00	\$8,000	Yes	\$7,544	\$456		
Testing and Materials	EA	1	\$ 41,675.00	\$41,675	Yes	\$39,300	\$2,375		
Sutotal Other Construction					\$1,529,994		\$1,442,784	\$87,210	
Contractor Mobilization	LS	1	\$64,265	\$64,265	No	\$0	\$64,265		
Traffic Control	LS	1	\$66,515	\$66,515	Yes	\$62,724	\$3,791		

Phoenix: Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)

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.										
Sponsoring Agency		Project Title		Application Date:						
Phoenix		Thomas Rd. - Phase 1		9/22/2017						
Part	Item Description		Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)	Note(s)
	5. Mobilization And Administration Costs	Construction Survey & Layout	LS	1		\$0	Yes	\$0	\$0	
		Construction Contingencies	LS	1	\$266,000	\$266,000	Yes	\$250,838	\$15,162	
		Construction Administration	LS	1	\$350,000	\$350,000	Yes	\$330,050	\$19,950	
		Subtotal Mobilization & Administration Costs				\$746,780		\$643,612	\$103,168	
Subtotal Construction Or Implementation Cost (Part E)						\$2,276,774		\$2,086,396	\$190,378	
F. Total Scoping, PE, Right-of-Way Acquisition, Utility Relocation, and Construction (Part A, B, C, D, and E)										
						\$3,158,434		\$2,086,396	\$915,378	
G. Adot Fee Review Fee - \$10,000 for Certified Accepted agencies, otherwise \$30,0000										
						\$10,000	No	\$0	\$10,000	
H. Total Project Cost Including ADOT Fees (Part F + Part G)										
						\$3,168,434		\$2,086,396	\$925,378	

Phoenix: Multi-Modal Connections to Thomas Road Bus Rapid Transit (Phase 1)

PART E - TOTAL PROJECT SCHEDULE AND BUDGET

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 24-27 in Part B.

Cost Estimate for the Project Including ALL Segments	Cost	Additional Notes (if needed)
1. ADOT Fee	\$10,000	
2. Design	\$457,660	
3. Right of way	\$175,000	
4. Utilities	\$249,000	
5. Construction	\$2,276,774	Contingency included in construction cost
6. Contingency		No more than 20% of Construction Cost
7. Total Cost	\$3,168,434	

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

9. Expected Annual Maintenance Cost

10. Identify Source of Maintenance Funds

Requested MAG Programming	Year	Short Work Description (E.g. Construct Multiuse Path)	Local Funding Source	Local Cost	Federal Cost	Total Cost	Local Share
11. Design (Optional)	2019		HURF	\$457,660	Not Available	\$457,660	100.0%
12. Right of way (Optional)	2020		HURF	\$175,000	Not Available	\$175,000	100.0%
13. Utilities (Optional)	2020			\$0	Not Available	\$0	
14. Other (Optional)				\$0	Not Available	\$0	
15. Construction	2022		HURF	\$143,969	\$2,381,805	\$2,525,774	5.7%
16. Total Costs				\$776,629	\$2,381,805	\$3,158,434	24.6%

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.

COVER SHEET	Complete?
Cover Sheet is completely filled out	Yes
PART A - Contacts and Project Description Fields	Complete?
Contact Information, fields 1 – 5 are complete	Yes
Project Description, fields 6 - 8 are complete	Yes
PART B - Project Description	Complete?
Fields 1 - 14 (Project Description) are complete	Yes
Fields 15 - 17 (Transit) are complete	Yes
Fields 18 – 22 (Attractors and Demographics) are complete	Yes
Fields 23 – 30 (Traffic, Environmental, ROW, and Utilities) are complete	Yes
Fields 31 – 33 (Guidelines, Policies, and Plans) are complete	Yes
Fields 34 – 37 (Maintenance, Performance Measurement, and Wayfinding) are complete	Yes
PART C - Required Attachments	Complete?
Field 1 - Map showing the general location of the proposed project in relation to the region, including a north arrow provided in the printed application and the PDF application.	Yes
Field 2 - Map with streets labeled showing the detailed location(s) of the proposed project, including a north arrow provided in the printed application and the PDF application.	Yes
Field 3 - Up to four (4) photos of existing conditions are provided in the printed application and the PDF application (two 4x6 per page).	Yes
right of way limits, widths, sidewalks and shoulders (if any), and the lanes of travel in the printed application and the PDF application.	Yes
(OPTIONAL)- Up to two (2) photos/renderings of the completed project are provided in the printed application and the PDF application.	Yes
(OPTIONAL)- Up to three (3) letters of support for the project are provided in the printed application and the PDF application.	Yes
(OPTIONAL)- GIS coverage (shapetile or geodatabase) is provided on the CD with the application.	Yes
PART D - Cost Estimate Worksheet	Complete?
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
PART E - Total Project Schedule and Budget Including All Segment Fields	Complete?
Fields 1 – 7 are complete and costs are accurate	Yes
Field 8 - 10 are complete	Yes
Fields 11 – 15 Years are complete	Yes
Fields 11 – 15 Local Funding Sources are complete	Yes
Fields 11 – 15 Local Costs are complete and accurate	Yes

Field 11 - 15 Federal Costs are complete and accurate	Yes
Field 16 Total Costs are complete and accurate	Yes
PART F - Signature and Checklist	Complete?
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

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:	Kini Knudson
Title:	Assistant Street Transportation Director/City Engineer
Date:	9/22/2017

Instructions for the Submittal of GIS Data for Funding Applications

It is preferred that, when possible, member agencies submit GIS data representing the locations of projects defined in their Applications. For member agencies unable to meet this requirement, MAG staff is available to assist in this area.

Submission Requirements

GIS Data – For each geometry type (point, line, polygon), please provide a single GIS shapefile or feature class for your jurisdiction. Example: if you are submitting Project Applications that are for both linear features (bike lanes) and point features (crossings), you would submit a total of two shapefiles or geodatabase feature classes along with your Project Application.

File Formats – Agencies that are able to submit GIS data along with Applications shall provide the data in one of three formats that are compatible with ESRI products: (1) shapefile, (2) Personal Geodatabase, or (3) File Geodatabase.

Spatial Reference – The preferred spatial reference system of submitted GIS data is State Plane Arizona Central NAD 83 HARN.

Attributes – All GIS data submitted shall, at a minimum, have the following attributes:

- PROJECT_TITLE – the name of the project; this should be the same as the Project Title in the Project Application
- LOCATION – (optional) a description of the location of the project. Linear features should be described by their start and end locations. Polygon features should be described using streets, water courses, canals, city boundaries, or other landmarks as a means of describing the location of the project.

ADOT Review Fees for Certification Accepted Agencies/1

ADOT SECTION	FUNCTION	RATE	HOURS	CHARGE/2
Environmental Planning	Environmental Planning	\$ 50	100	\$ 5,000
Urban Project Management	Project Manager	\$ 60	60	\$ 3,600
Urban Project Management	Project Coordinator	\$ 60	20	\$ 1,200
SUBTOTAL			180	\$ 9,800
STAFF GRAND TOTAL				\$ 10,000

ADOT Review Fees for Non Certification Accepted Agencies/1

ADOT SECTION	FUNCTION	RATE	HOURS	CHARGE/2
Contracts and Specs	Contracts and Specs	\$ 60	200	\$ 12,000
District	District	\$ 55	18	\$ 990
Engineering Consulting Section	Engineering Consulting Section	\$ 40	24	\$ 960
Environmental Planning	Environmental Planning	\$ 50	100	\$ 5,000
Materials	Geotech Design	\$ 50	15	\$ 750
Materials	Geotech Field Investigation	\$ 50	5	\$ 250
Right of Way	Plans	\$ 50	40	\$ 2,000
Roadway Group	Roadway Design	\$ 55	40	\$ 2,200
Roadway Group	Roadway Review	\$ 70	5	\$ 350
Traffic	Traffic Design	\$ 55	45	\$ 2,475
Urban Project Management	Project Manager	\$ 60	40	\$ 2,400
Urban Project Management	Project Coordinator	\$ 60	10	\$ 600
SUBTOTAL			542	\$ 29,975
STAFF GRAND TOTAL				\$ 30,000

Notes:

1. Based on material provided by ADOT in July, 2015. All functions, rates, hours and costs are as listed in the material provided by ADOT. Items listed in the ADOT information for which no rates, hours and costs were included were omitted from the table.

2. Charges to agencies will be based on work performed by ADOT. Costs accrued will vary depending on project characteristics and may be either higher or lower than those listed in the table.

TRANSPORTATION ALTERNATIVES PROGRAM

Eligible Activities

Through consultation with MAG member agencies and with the approval of the MAG Regional Council, MAG has determined that the MAG Transportation Alternatives program will prioritize the following eligible activities:

1) Transportation Alternatives as defined in 23 U.S.C. 101(a)(29) (MAP-21 §1103):

- A. Construction of on-road and off-road trail facilities for pedestrians, bicyclists, and other nonmotorized forms of transportation, including sidewalks, bicycle infrastructure, pedestrian and bicycle signals, traffic calming techniques, lighting and other safety-related infrastructure, and transportation projects to achieve compliance with the Americans with Disabilities Act of 1990 (42 USC 12101 et seq.).
- B. Construction of infrastructure-related projects and systems that will provide safe routes for non-drivers, including children, older adults, and individuals with disabilities to access daily needs.
- C. Conversion and use of abandoned railroad corridors for trails for pedestrians, bicyclists, or other nonmotorized transportation users.

2) The safe routes to school (SRTS) program eligible projects and activities listed at section 1404(f) of the SAFETEA-LU:

A. Infrastructure-related projects

http://www.fhwa.dot.gov/environment/safe_routes_to_school/guidance/#toc123542197

B. Noninfrastructure-related activities (There is a separate MAG application for non-infrastructure SRTS)

http://www.fhwa.dot.gov/environment/safe_routes_to_school/guidance/#toc123542199

Eligible Project Sponsors

MAG has determined that, in order to qualify for MAG TA funding, any project application MUST be submitted by a MAG Member agency. Eligible entities who are not MAG Member Agencies may partner with a MAG Member Agency to submit a project, but the MAG Member Agency must be the primary project applicant.

Under 23 U.S.C. 213(c)(4)(B), the **Eligible Entities** to receive TAP funds are:

Local governments, regional transportation authorities, transit agencies, natural resource or public land agencies, school districts, local education agencies, or schools, tribal governments, and any other local or regional governmental entity with responsibility for oversight of transportation or recreational trails (other than a metropolitan planning organization or a State agency) that the State determines to be eligible, consistent with the goals of subsection (c) of section 213 of title 23.

State DOTs and MPOs are not eligible entities as defined under 213(c)(4)(B) and therefore are not eligible project sponsors for TAP funds. However, State DOTs and MPOs may partner with an eligible entity project sponsor to carry out a project.

MAG TA PROGRAM GOALS

1. Improve pedestrian and bicyclist accessibility and connectivity on the transportation network.
2. Assist in providing a safe environment for the bicyclists and pedestrians on both the on-street and the off-street transportation networks.
3. Make bicycling and walking to public K-8 schools a safer and more desirable transportation alternative to motorized vehicles.

DEFINITIONS:

Accessibility: The ability of transportation infrastructure improvements to provide better access to transit stops, destinations, schools, homes/subdivisions, and employment for people that are walking or biking for all ages and abilities.

Connectivity: The ability of transportation infrastructure improvements to link the proposed project to other bike/pedestrian facilities, completing a gap in a bike/pedestrian facility, or a city/town.

Safety: Projects that make a street safer by addressing a perceived or observed safety problem, including (but not limited to): high vehicle speed, crashes, striping, intersection crossings, or mid-block crossings.

MAG TA PROGRAM OBJECTIVES

- Fund eligible Transportation Enhancement and Safe Routes to School (SRTS) projects through the federal MAP-21 Transportation Alternatives fund.
- Fund bike and pedestrian improvement projects that provide a safe transportation route or improve a transportation route for (K-8) students to schools.
- Fund bike and pedestrian improvement projects that address a perceived or observed problem/safety issue, including (but not limited to) unsafe street crossings; missing, narrow or poorly maintained sidewalks; adding/improving bike lanes (restriping, widening, colored pavement); or disconnected/inaccessible bike or pedestrian facilities, while connecting residents to transit stops/centers or other destinations.
- Fund Safe Routes to School (SRTS) non-infrastructure projects that educate and encourage K-8 students, parents, and school resources officers/staff on bicycle and walking options.
 - o GUIDELINE - Funding will be set aside at 9% of total Transportation Alternatives funding, with a maximum yearly total of \$400,000. If the total value of projects awarded for Safe Routes to School non-infrastructure projects is less than the total programmed set-aside, remaining funds will be applied toward eligible infrastructure projects.
 - o GUIDELINE – These projects will need to evaluate on a quarterly basis as required by the federal government, and address enforcement and encouragement. .
- Utilize evaluative tools based on quantitative and qualitative performance measures to inform project rankings in the application process.

Agencies	YesNo	FacilityTypes	SpeedLimits
Apache Junction	X	Arterial Road	n/a
Avondale		Collector Road	15
Buckeye		Residential Road	20
Carefree		Unpaved Road/Path	25
Cave Creek		Project is Off-Street	30
Chandler			35
El Mirage			40
Florence			45
Fort McDowell Yavapai Nation			50
Fountain Hills			55
Gila Bend			
Gila River Indian Community			
Gilbert			
Glendale			
Goodyear			
Guadalupe			
Litchfield Park			
Maricopa, City of			
Maricopa County			
Mesa			
Paradsie Valley			
Peoria			
Phoenix			
Pinal County			
Queen Creek			
Salt River Pima-Maricopa Indian Community			
Scottsdale			
Surprise			
Tempe			
Tolleson			
Valley Metro Rail			
Valley Metro/RPTA			
Wickenburg			
Youngtown			

TravelLanes	Density	Policies	Years	LocalFunds	FedYears	YN	FedClass	Eligible
n/a	+15 Units	Required	2016	HURF	2021	Yes	Principal Arterial	TRUE
	2 15-5 Units	Recommen	2017	Bond Proceeds	2022	No	Minor Arterial	FALSE
	3 < 5 Units	Not Addre:	2018	General Fund			Major Collector	
	4		2019	Impact Fees			Local Street	
	5		2020	Private			Not Classified	
	6			Property Tax				
	7			Sales Tax				
	8			Other				
	9							

FedShare Units
0.943 LF

Environmental Agencies

Locally Funded	APJ
Federally Funded	AVN
Advance Constructed	BKY
	CFE
	CVK
	CHN
	ELM
	FLO
	FTM
	FTH
	Gila Bend
	Gila River Indian Community
	GLB
	GLN
	GDY
	GDL
	LPK
	MAR
	MMA
	MES
	PVY
	PEO
	PHX
	PNL
	QNC
	SRP
	SCT
	SUR
	TMP
	TOL
	VMR
	VMA
	WKN
	YTN

CONGESTION MITIGATION AIR QUALITY (CMAQ) PROGRAM

Federal Eligibility Requirements

Title 23, Section 149 of the United States Code and as implemented in federal regulations provides for a number of eligibility requirements for CMAQ funding. These include the following:

- 1) The project must be located in a nonattainment area or maintenance area for at least one of the following: carbon monoxide, ozone particulate matter (PM-10 and PM-2.5)
- 2) The project may not add through lane capacity

MAG Requirements for the Current Call for Projects

MAG has the following requirements:

- 1) The call for projects in the application is limited to MAG member agencies. Member agencies may sponsor projects on behalf of third parties, but must comply with all applicable State and Federal regulations.

Multi-Modal Connections to Thomas Road Transit (Phase 1)



1) On 31st Avenue North of Thomas Road; no sidewalks on either side of street.



2) On 39th Avenue looking north; notice the wide vehicle lanes. Proposal to add buffering on bicycle lanes.

Multi-Modal Connections to Thomas Road Transit (Phase 1)



3) Looking at transit stop eastbound on Thomas Road at 39th Avenue; 9 people who walked to the bus stop.

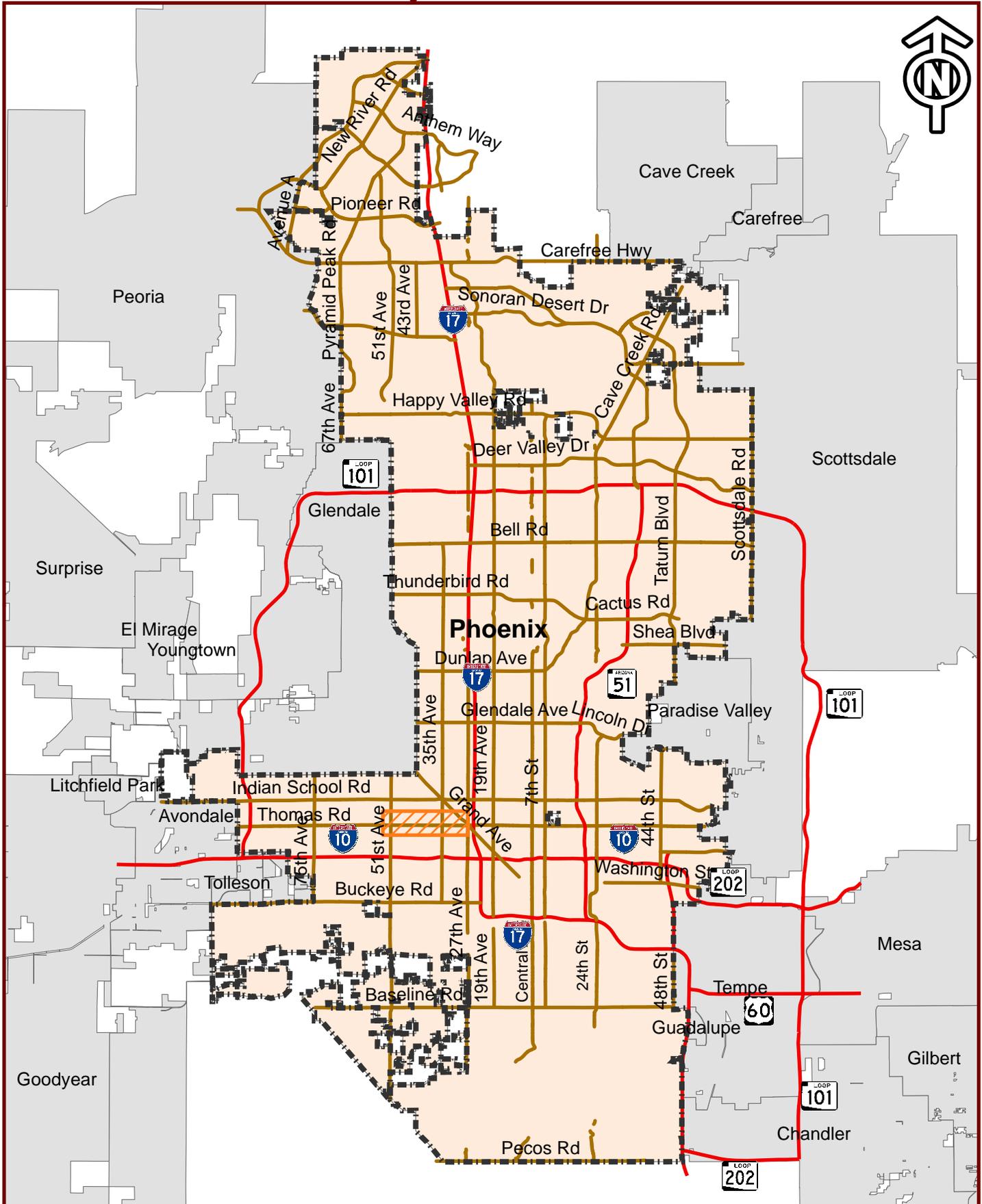


4) On Thomas at 39th Avenue; project will include better access for people walking and biking, and meet ADA compliance.

Vicinity Map

Multi-Modal Connections to Thomas Road Bus Rapid Transit (BRT), Thomas Road: 55th Avenue to 27th Avenue

City of Phoenix

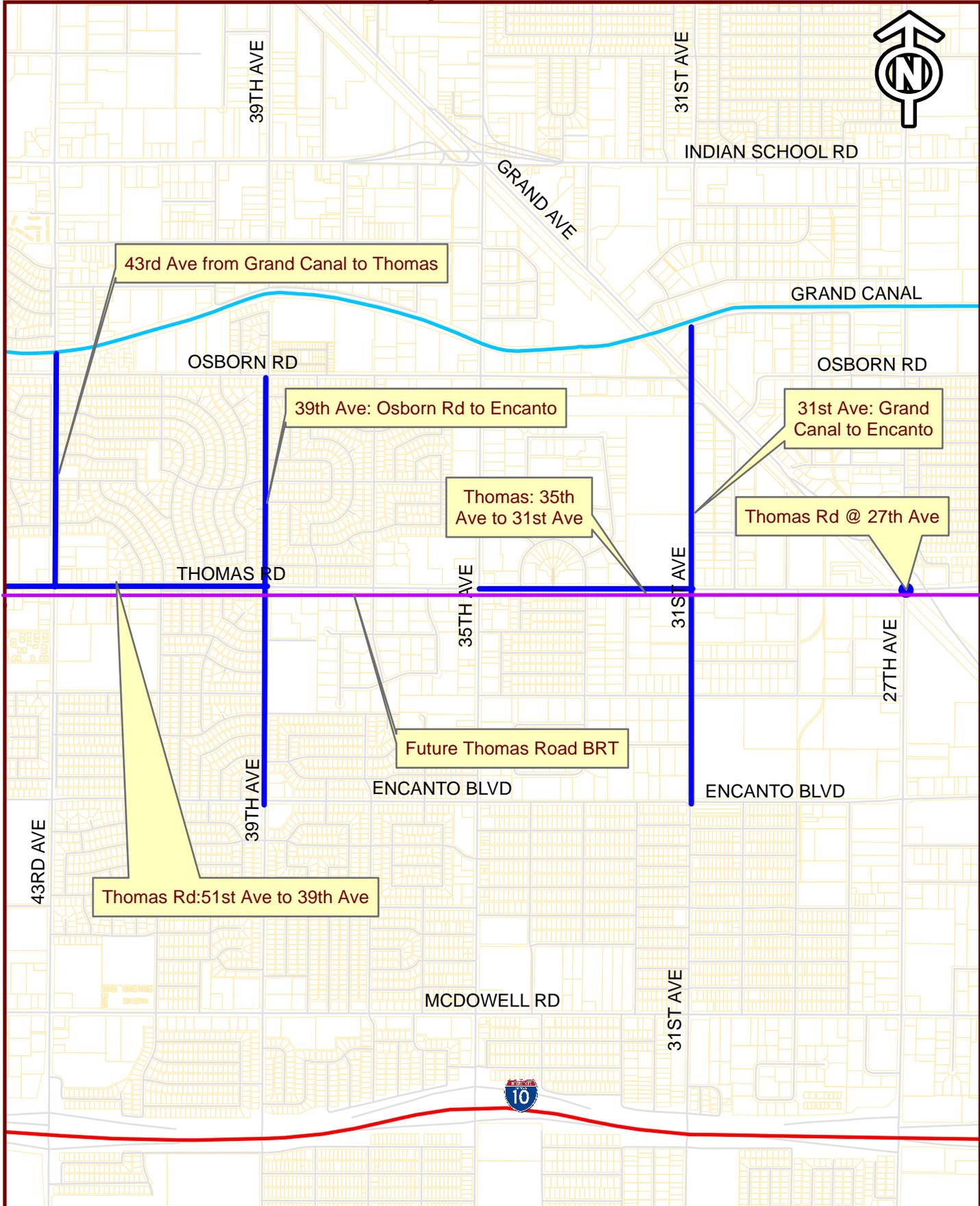


City Limits
 Project Locations
 Freeways
 Major Streets

Project Location Map

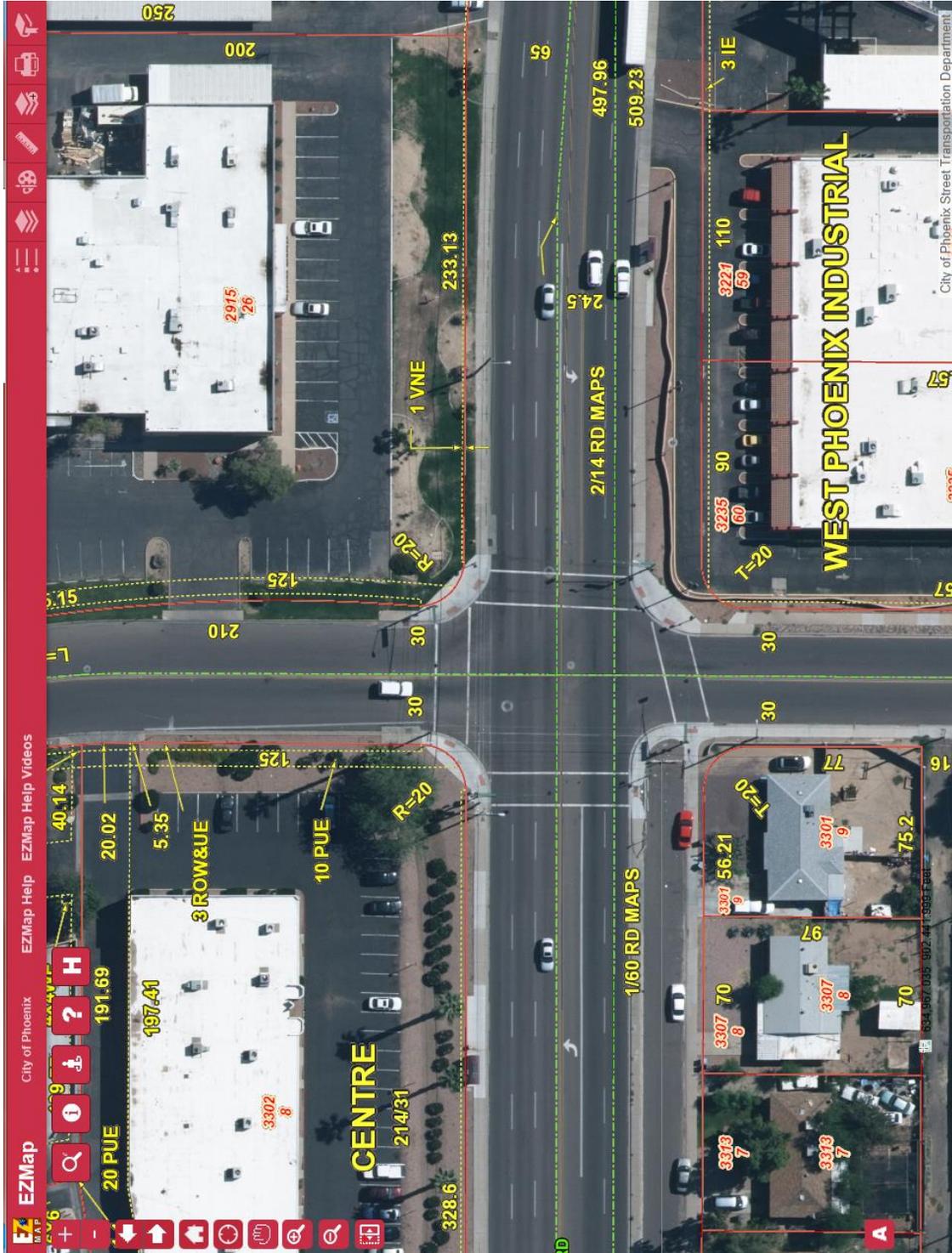
Multi-Modal Connections to Thomas Road Bus Rapid Transit (BRT), Thomas Road: 27th Avenue to East Side of 43rd Avenue

City of Phoenix



- Canals
- Freeways
- Future Bus Rapid Transit
- ● Project Locations

Thomas Road at 33rd Avenue Cross Section of Thomas Road – Phase 1



Sidewalk – 3 Travel Lanes – 1 Left Turn Lane – 2 Travel Lanes – Median – Frontage Rd. - Sidewalk

4 ft – 6 ft sidewalk – 11 ft – 11 ft – 11 ft – 10.5 ft – 10.5 ft – 11 Ft – 6.5 ft – 19 ft – 5 ft

105.5 ft

Field 11 - 15 Federal Costs are complete and accurate	Yes
Field 16 Total Costs are complete and accurate	Yes
PART F - Signature and Checklist	Complete?
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

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:	 9/22/17
Name:	Kini Knudson
Title:	Assistant Street Transportation Director/City Engineer
Date:	9/22/2017