



Tempe Bikeshare Expansion

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

Tempe Bikeshare Expansion

City of Tempe

**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)

Tempe: Tempe Bikeshare Expansion

PART A - CONTACT AND PROJECT DESCRIPTION

Contact Information

1. Name of Sponsoring Agency	Tempe
2. Agency Contact Name	Shelly Seyler
3. Phone Number of Agency Contact	480-350-8854
4. E-Mail Address of Agency Contact	shelly_seyler@tempe.gov
5. Mailing Address of Agency Contact	Tempe Transportation Center 200 E. 5th Street Tempe, Az 85281

Project Description

6. Please provide the Project Title. Tempe Bikeshare Expansion

7. Please provide a concise, specific description of the project (250 character limit):

Bikeshare facilities reiterate Tempe's regional commitment to providing clean, safe, healthy and affordable transportation options. Expansion of this infrastructure with 205 bikes, 275 racks and 15 stations provides new linkages to existing and planned destinations.

8. Please provide the project limits:

- Expanding to include city-wide coverage (15 new, 8 expanded stations), this project is:
- Northbound near the Scottsdale border at N. Scottsdale Rd. & McKellips Rd.
 - Southbound near the Chandler border at S. McClintock Dr. & E. Warner Rd.
 - Westbound at S. Priest Dr. & Fountainhead Pkwy.
 - Eastbound near the Mesa border at E. Rio Salado Pkwy. & S. Smith Rd.

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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 type="checkbox"/> Bicycle Lane (5' min. with curb/gutter) | <input type="checkbox"/> Wide Sidewalk (8' min.) |
| <input type="checkbox"/> Buffered Bike Lane | <input 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 type="checkbox"/> Sidewalk (5' min.) | <input type="text" value="Regional bikeshare network expansion in Tempe"/> |
| <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="New and expanded stations, kiosks, bikes and racks"/> |
| <input type="checkbox"/> Signalized midblock crossing/HAWK | |
| <input type="checkbox"/> Countdown Pedestrian Signal | |

4. What amenities are included in this project?

- | | |
|---|--|
| <input type="text" value="275"/> 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="checkbox"/> Number of Way-finding Signs | <input type="checkbox"/> Number of bicycle/pedestrian counting devices |
| <input type="checkbox"/> Number of Trash receptacles | Other: |
| <input type="checkbox"/> Number of Trees | <input type="text" value="205 bikes, 15 solar-powered kiosks"/> |
| <input type="checkbox"/> Number of new openings in street walls | |
| <input type="checkbox"/> Number of Shade Structures | |

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

Project site conditions vary per location. Utilization has identified existing stations for expansion and will facilitate the installation of new racks on/in the existing substrate. New stations are identified in the existing municipal right-of-way due to their proximity to established bike infrastructure, destinations, and transit; where conditions best allow for the installation of new, surface-mounted racks and solar-powered kiosks on adjacent pavement.

Tempe : Tempe Bikeshare Expansion

PART B-DETAILED PROJECT DESCRIPTION

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

Project includes a total of 23 site improvements through the installation of new, and expansion of, the existing bikeshare network through the construction of new stations (15)(installation of racks, solar-powered kiosks, potential concrete pads where surface conditions demand) and the addition of bikes and racks to existing stations (8).

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

The hope for this project is multi-faceted, including increased rideshare, traffic mitigation, improvement of air quality and user health, and enhanced access to city and regional transportation network systems. In addition, the expansion of the existing bikeshare network reiterates the success of this mode in our communities, providing a proliferate effect that encourages participation at a level difficult to attain through traditional campaign strategies.

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

Facilities will be installed adjacent to existing bike infrastructure access (lanes, routes and multi-use paths).

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

- Yes
- No

Please Explain:

N/A

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

Greater participation of cyclists on our roads enhances safety for all by an increase in visibility and awareness. All stations are comfortably positioned near nodes of interactivity for drivers, cyclists and pedestrians to heighten the presence of bicyclists.

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

Project improvements comply with ADA requirements and do not impede accessible routes.

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PART B-DETAILED PROJECT DESCRIPTION

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

Access is a key component to the success of any modal network enhancement. This project is a proposed expansion of Tempe's highly-successful bikeshare program, which has identified opportunities to improve access by adding to the regional bike fleet, as well as the expansion of existing bikeshare stations. In conjunction with current and projected land use, data collected from trip usage (via on-board gps equipment) identifies these stations as viable hubs to an array of uses (recreation, education, residential, employment, etc.), creating cross-city access for neighborhoods across the city.

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

A sense of place is most-enhanced by this project by increasing visibility of riders on our streets, routes and multi-use paths. In the observation of any place, one of the most notable elements are the manners in which people are (and have the capacity for) moving in and around it. The addition of equipment and infrastructure related to bikeshare communicates the integration of bikes in our communities as a safe and reliable mode of transportation.

14. Connectivity: (Check all that apply)

Project fills a gap in the system
Explain:

Addresses the first and last mile trip demand strategy with 15 new facilities providing improved access, particularly for central and southern communities in the city. 8 expansion sites respond to user demand with extended resources for dense population and destination centers.

Project connects to other local bikeways
List of connected bikeways:

City-wide bike boulevard system; Handlebars, Pedal, Sprocket, Wheel and Seat. In addition to multi-use paths

Multi Jurisdictional Project (please include letter of support (See Part C)
List of Participating Jurisdictions:

This infrastructure enhances the existing shared facilities in Phoenix and Mesa, and would provide connectivity to neighboring Scottsdale and Chandler.

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.

Within 1/4 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.

Within 1/4 mile

List routes and frequency:

Routes 45, 48, 56, 65, 65, 66, 72, 81, Tempe Express, Flash and Orbit Earth, Jupiter, Mars, Mercury, Venus Saturn; with peak frequency ranging between 6-20 minutes.

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

Within 1/4 mile

List:

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7 Park and Rides, Tempe Transportation Center

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PART B-DETAILED PROJECT DESCRIPTION

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

40 Within 1/4 mile

List:

Parks (26), Papago, Rio Salado, Hayden Butte, Indian Bend, Plazita de Descanco, 6th St, Tempe Beach, Jaycee, Mitchell, Birchett, Daley, Clark, Hudson, Creamery, Escalante, Selleh, Meyer, Joyce, Hollis, Arredondo, Rotary, Cole, Palmer, Kiwanis, Scudder, Estrada. Senior Centers (7), Recreation Centers (3), Libraries (4)

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):

10 Within 1/4 mile

List:

Tempe has 10 job centers comprising 2,558 businesses and 127,519 jobs. This represents 80.2% of the total jobs in Tempe.

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

12 Within 1/4 mile

List:

Laird, Holdeman, Broadmor, Thew, Imagine, Curry, Hudson, Fuller, Aguilar, Meyer Montessori, Gililand, Arredondo

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

8 Within 1/4 mile

List:

Arizona State University, Brookline, University of Phoenix, Tempe High, New School, Pinnacle, McClintock, James Madison

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):

66 Within 1/4 miles

List:

46% of existing acreage in Tempe is encumbered for other uses (residential, open space, surface transportation)

31 1/4 miles to 1/2 miles

List:

46% of existing acreage in Tempe is encumbered for other uses (residential, open space, transportation)

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PART B-DETAILED PROJECT DESCRIPTION

23. What are the demographics of the area served:

[MAG Demographic Mapping](#)

People Per Square Mile

% 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:

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

New Stations

1. Broadway and Rural
2. McClintock and Guadalupe
3. Southern and Mill

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 Before Project

Number of Travel Lanes After Project

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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

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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 type="checkbox"/>	Private Structures
<input type="checkbox"/>	Canals & Drainage		
<input type="checkbox"/>	Power Lines & Cables	Other:	
<input type="checkbox"/>	Pipelines, Sewer and Water	<input type="text" value="N/A"/>	

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 type="text"/>
<input checked="" type="checkbox"/>	MAG Pedestrian Policies and Design Guidelines	
<input checked="" type="checkbox"/>	MAG Complete Streets Guide	
<input 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 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="text" value="Required"/>
With new development and capital improvement projects, bike lanes on collector streets are:	<input type="text" value="Recommend"/>
With pavement restoration or regular pavement maintenance on arterial streets, bike lanes are:	<input type="text" value="Recommend"/>
With new development or during development retrofits, shared-use paths are:	<input type="text" value="Recommend"/>
Bicycle program implemented, including bike education, safety events, and bike maps	<input type="text" value="Yes"/>
Complete Streets Policy	<input type="text" value="No"/>

34. The project is: (Check one)

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

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

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

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PART B-DETAILED PROJECT DESCRIPTION

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

Bike usage is tracked in real-time by users, and available for reporting by Tempe staff, providing metrics for overall station performance. This provides an opportunity to capture miles traveled, emissions savings, calories burned, and cost savings to demonstrate project impact. Additionally, this data allows for nimble resource relocation to address needs and special circumstances (events, closures, etc.).

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?

All bikes are mounted with on-board GPS equipment to track utilization. This data is retrieved remotely and is accessible in real-time for reporting.

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.

Bikeshare facilities and updates are promoted online, at events, and public meetings. Additionally, project expansion will be accompanied by a press release, social media, paid advertising and updates to the online map to reflect new resources.

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

Project stations include vertical wayfinding kiosks with intersection identification and system maps. Additionally, this project will expand connections to city-wide bikeway network, which includes a growing inventory of wayfinding through the BIKEiT system.

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>

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:	City of Tempe	Project Title:	Application Date:
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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	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		\$0.00	No	\$0.00	\$0.00				
	4. HAZMAT ASSESSMENT	LS	1		\$0.00	No	\$0.00	\$0.00				
	Subtotal Scoping (Part A)					\$0.00		\$0.00	\$0.00			
B. Final Preliminary Engineering Design - Stages II, III, IV And PS&E	1. Plans, Special Provisions or Bid Manual, Cost Estimate & Schedules.	LS	1		\$0.00	No	\$0.00	\$0.00				
	2. GEOTECHNICAL INVESTIGATION and Materials & Pavement Design Report	LS	1		\$0.00	No	\$0.00	\$0.00				
	3. DRAINAGE REPORT	LS	1		\$0.00	No	\$0.00	\$0.00				
	4. SWPPP	LS	1		\$0.00	No	\$0.00	\$0.00				
	Subtotal PE (Part B)					\$0.00		\$0.00	\$0.00			
Subtotal Preliminary Engineering (Part A + Part B)					\$0.00		\$0.00	\$0.00				
C. Right-of-Way Acquisition	1. Right-of-Way Acquisition	LS	1		\$0.00	No	\$0.00	\$0.00				
Subtotal Right-of-Way Acquisition (Part C)					\$0.00		\$0.00	\$0.00				
D. Utility Relocation	1. Utility Relocation	LS	1		\$0.00	No	\$0.00	\$0.00				
Subtotal Utility Relocation (Part D)					\$0.00		\$0.00	\$0.00				
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		
		Earthwork	General Excavation		CY	1		\$0.00	Yes	\$0.00	\$0.00	
			Drainage Excavation		CY	1		\$0.00	Yes	\$0.00	\$0.00	
			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	
			Polymer or Resin Stabilized Surface		SF	1		\$0.00	Yes	\$0.00	\$0.00	
Crosswalk Enhancement	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			
Pedestrian ADA Ramp		SF	1		\$0.00	Yes	\$0.00	\$0.00				
Culvert Extensions		LF	1		\$0.00	Yes	\$0.00	\$0.00				

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Part	Item Description	Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)	Note(s)			
	Pedestrian Lighting Including Conduit And 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			

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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	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	
	4. Other Construction Items. Also, Itemized Line Items For Non-Infrastructure Projects. (Insert Additional Rows If Necessary)		Bicycle and Pedestrian Counter	Each	1		\$0	Yes	\$0	\$0
				1		\$0	Yes	\$0	\$0	
		Bicycles	Each	205	\$3,700	\$758,500	Yes	\$715,266	\$43,235	
		Racks	Each	275	\$800	\$220,000	Yes	\$207,460	\$12,540	
		Kiosks (paypoint, wayfinding)	Each	15	\$3,700	\$55,500	Yes	\$52,337	\$3,164	
				1		\$0	Yes	\$0	\$0	
				1		\$0	Yes	\$0	\$0	
				1		\$0	Yes	\$0	\$0	
				1		\$0	Yes	\$0	\$0	
		Subtotal Other Construction					\$1,034,000		\$975,062	\$58,938
	5. Mobilization And Administration Costs	Contractor Mobilization	LS	1		\$0	No	\$0	\$0	
		Traffic Control	LS	1		\$0	Yes	\$0	\$0	
		Construction Survey & Layout	LS	1		\$0	Yes	\$0	\$0	
		Construction Contingencies	LS	1		\$0	Yes	\$0	\$0	
		Construction Administration	LS	1		\$0	Yes	\$0	\$0	
		Subtotal Mobilization & Administration Costs					\$0		\$0	\$0

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:		City of Tempe	Project Title:				Application Date:										
Part	Item Description						Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)	Note(s)			
	Subtotal Construction Or Implementation Cost (Part E)									\$1,034,000		\$975,062	\$58,938				
F. Total Scoping, PE, Right-of-Way Acquisition, Utility Relocation, and Construction (Part A, B, C, D, and E)											\$1,034,000	\$975,062	\$58,938				
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)													\$1,044,000		\$975,062	\$68,938	

Tempe: Tempe Bikeshare Expansion

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	\$0	
3. Right of way	\$0	
4. Utilities	\$0	
5. Construction	\$1,034,000	
6. Contingency	\$0	No more than 20% of Construction Cost
7. Total Cost	\$1,044,000	

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

9. Expected Annual Maintenance Cost

10. Identify Source of Maintenance Funds

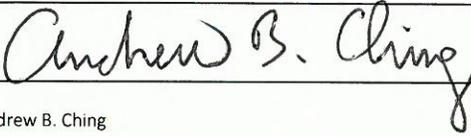
Requested MAG Programming	Year	Short Work Description (E.g. Construct Multiuse Path)	Local Funding Source	Local Cost	Federal Cost	Total Cost	Local Share
11. Design (Optional)	2019	Site scoping, refinement		\$0	Not Available	\$0	
12. Right of way (Optional)				\$0	Not Available	\$0	
13. Utilities (Optional)				\$0	Not Available	\$0	
14. Other (Optional)				\$0	Not Available	\$0	
15. Construction	2021	Acquisition of bikes, racks, kiosks		\$58,938	\$975,062	\$1,034,000	5.7%
16. Total Costs				\$58,938	\$975,062	\$1,034,000	5.7%

PART F - SIGNATURE AND CHECKLIST	
<h1>Checklist</h1>	
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
Field 4 -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 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 (shapefile or geodatabase) is provided on the CD with the application.	No
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:	Andrew B. Ching
Title:	City Manager
Date:	9/22/2017

Tempe Bikeshare Expansion

Typical Roadway Cross Section

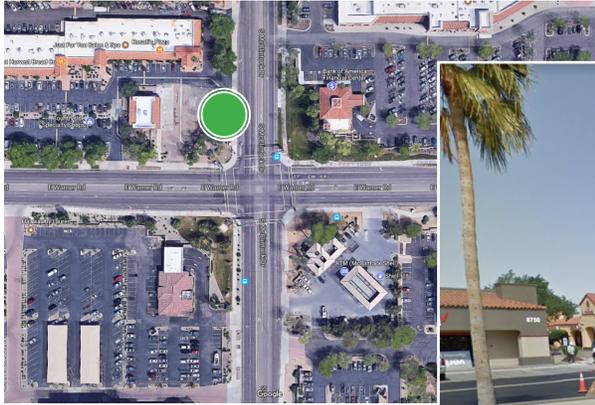


Project site conditions vary per location. Expansion of existing stations will add capacity while not impinging on continuous pedestrian access. New stations are scoped to provide ease of access and proximity to bike and transit facilities; scaled appropriately to insert into the existing civic space.

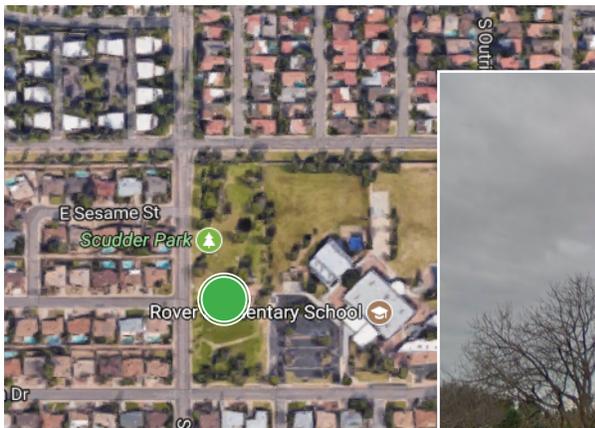
Tempe Bikeshare Expansion

Existing Site Conditions

New Stations

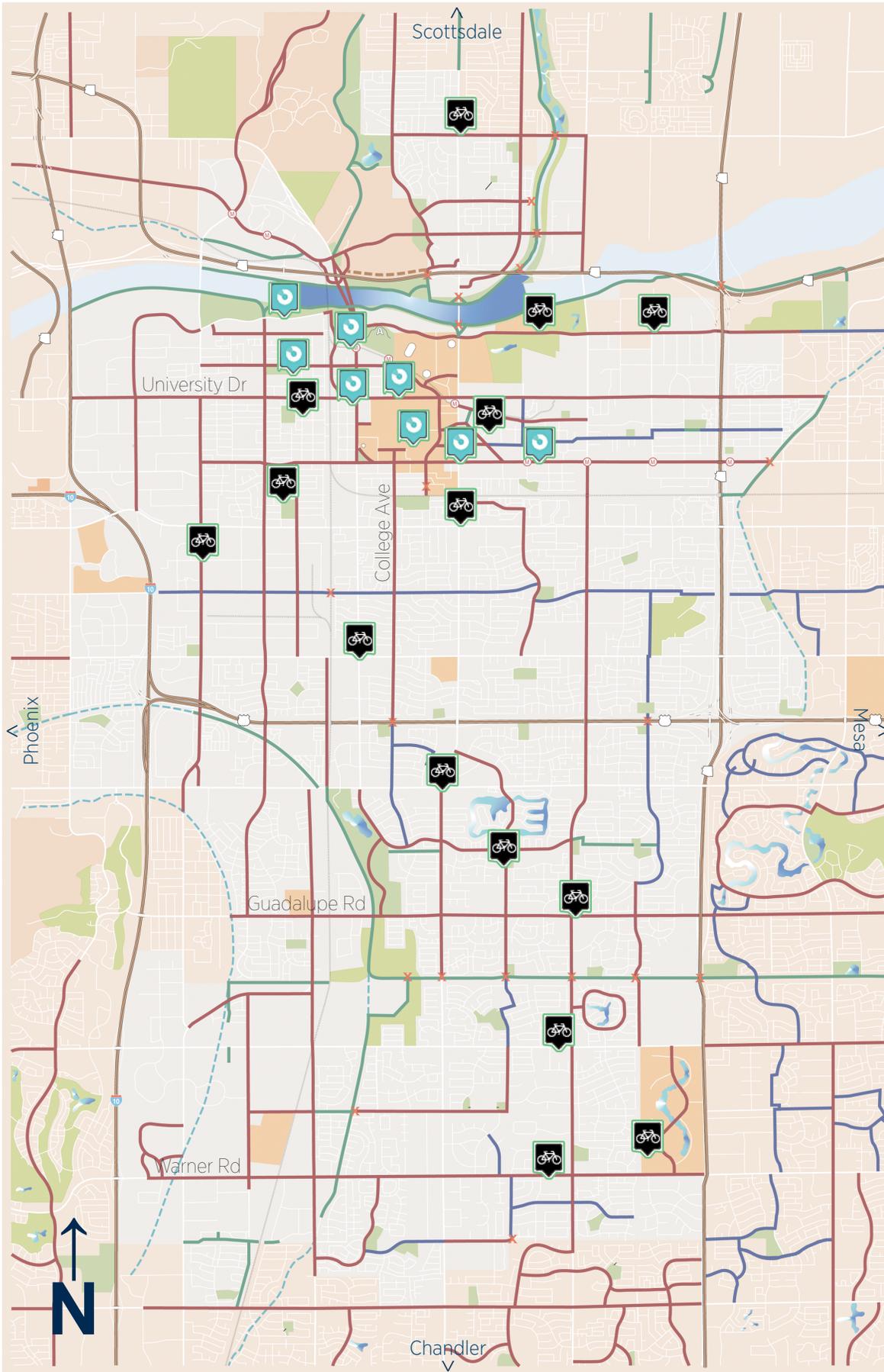


New Station: McClintock Dr & Warner Rd



New Station: Scudder Park

Tempe Bikeshare Expansion



Project Sites



New Stations

1. Broadway and Rural
2. McClintock and Guadalupe
3. Southern and Mill
4. Baseline and Rural
5. Rio Salado and Pier Drive
6. Rio Salado and Smith
7. Priest and Fountainhead
8. Mitchell Park
9. Clark Park
10. Scudder Park
11. ASU Research Park
12. Scottsdale & McKellips
13. Lemon and Terrace
14. McClintock and Warner
15. McClintock and Elliot



Station Expansions

16. Tempe Center for the Arts
17. 3rd and Mill
18. Westside Center
19. College and University
20. Apache and Rural
21. Apache and Dorsey
22. ASU Campus MU
23. University and Mill

 Bicycle Lane

 Multi-Use Path

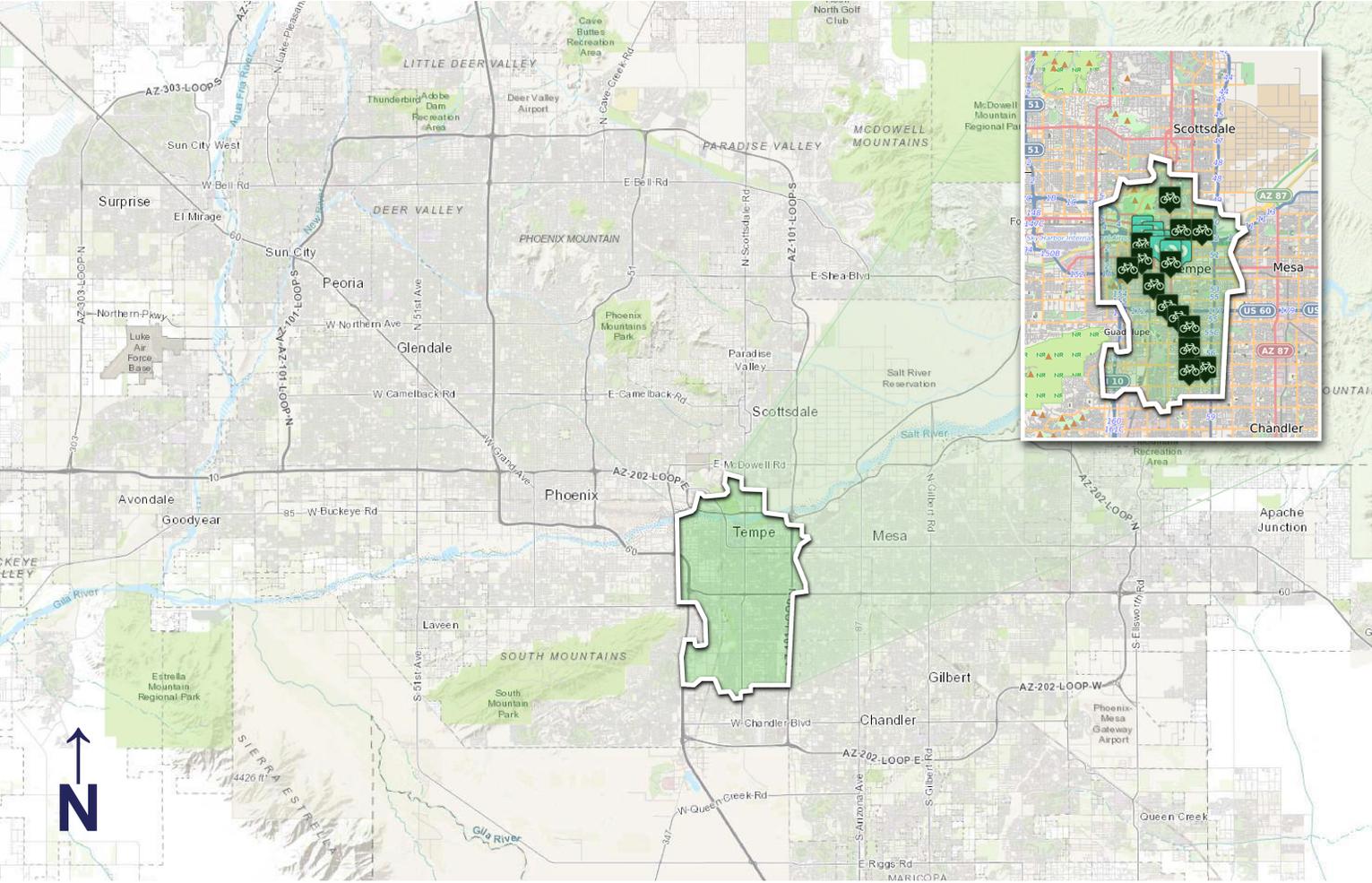
 Bicycle Route

 Metro Stop

Tempe Bikeshare Expansion

CMAQ/TA Application | FY 2021/2022

Regional Orientation



 Project Location



Parking and Transit Services

Providing sustainable transportation and access solutions for ASU.

September 25, 2017

Maricopa Association of Governments
Regional Bicycle and Pedestrian Committee
302 N. 1st Avenue, Suite 300
Phoenix, Arizona 85003

RE: Tempe Bike Share Expansion

Dear Committee Members:

This letter is in support of a grant request by the City of Tempe for construction of bike share stations. Arizona State University partnered with the city of Tempe in 2017 to fund half of the operating costs of the current bike share system. There are several stations located adjacent to ASU and this expansion would allow for a station to be placed at ASU Research Park and provide for additional racks and bicycles at the existing stations on campus.

Expanding the bike share system will create a city-wide system that will connect our students, faculty and staff residing south of Apache Boulevard to the Tempe campus and ASU Research Park. This expansion will allow for greater transportation options and connections to light rail, bus routes and multi-use paths.

ASU is committed to providing sustainable transportation options and this expansion contributes to that goal. For many years, ASU has advocated for a variety of multimodal projects in Tempe and this project is no exception. The construction of this project is a positive and necessary step to better advance bicycle facilities in Tempe.

Thank you for your consideration of the project.

Sincerely,

A handwritten signature in black ink, appearing to read 'Melinda Alonzo', written in a cursive style.

Melinda Alonzo
Director, Parking and Transit Services
Arizona State University

September 25, 2017

Maricopa Association of Governments
Regional Bicycle and Pedestrian Committee
302 N. 1st Avenue, Suite 300
Phoenix, Arizona 85003

RE: Tempe Bike Share Expansion

Dear Bicycle and Pedestrian Committee Members:

This letter is in support of a grant request by the City of Tempe for construction of additional bike share stations. Tempe launched its bike share system in May 2017 with 300 bikes and 31 stations. Since that time, the system has performed remarkably well.

Expanding the system will allow for greater access to more sustainable transportation and further reduce dependency on automobiles. Currently, the majority of Tempe's bike share stations are located north of Apache Boulevard serving the northern portion of the city. The expansion will aid in creating a city-wide system which also connects to the cities of Phoenix and Mesa.

As chair of the Transportation Commission, we support Tempe's request for construction funding for expansion of this system.

Thank you for your consideration of the project.

Sincerely,



Don Cassano
Tempe Transportation Commission Chair



Transportation Department

7447 E. Indian School Rd., Suite 205
Scottsdale, AZ 85251

PHONE 480-312-7696
FAX 480-312-4000

September 25, 2017

Maricopa Association of Governments
Regional Bicycle and Pedestrian Committee
302 N. 1st Avenue, Suite 300
Phoenix, Arizona 85003

RE: Tempe Bike Share Expansion

Dear Bicycle and Pedestrian Committee Members:

This letter is in support of a grant request by the City of Tempe for construction of bicycle lanes between Tempe and Scottsdale on Scottsdale Road.

Scottsdale currently has bicycle lanes from north of the Tempe border to Earll Drive along Scottsdale Road. Adding bicycle lanes between Curry Road and Roosevelt Street will fill a gap in the regional bikeway system. This corridor includes business, residential, commercial and recreational destinations and providing this connectivity would greatly enhance the bicycle network between our two cities.

Scottsdale is committed to providing a safe, connected, and convenient on-road bicycle network throughout the City of Scottsdale and the region. The addition of these bicycle lanes is in concert with this goal and is a benefit to the entire region. Scottsdale has supported many of Tempe's bicycle facility projects and we are happy to once again endorse a project on their behalf.

As a neighboring city to Tempe, we support Tempe's request for construction funding for these bicycle lanes. Thank you for your consideration of the project.

Sincerely,

A handwritten signature in blue ink that reads "Susan Conklu".

Susan Conklu
City of Scottsdale