



Transportation Alternatives / CMAQ Application for
FY 2018, 2019, and 2020 Projects

City of Phoenix Bikeshare Expansion Project

City of Phoenix

**APPLICATIONS ARE DUE AT MAG OFFICES BY
Monday, September 21, 2015 at 10:00 a.m.**

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

Phoenix: City of Phoenix Bikeshare Expansion Project (2018)**PART A - CONTACT AND PROJECT DESCRIPTION****Contact Information**

1. Name of Sponsoring Agency	Phoenix
2. Agency Contact Name	Scott Logan
3. Phone Number of Agency Contact	602-4955-7065
4. E-Mail Address of Agency Contact	scott.logan@phoenix.gov
5. Mailing Address of Agency Contact	200 W. Washington Street, 6th Floor, Phoenix, Arizona 85003

Project Description

6. Please provide the Project Title.	City of Phoenix Bikeshare Expansion Project (2018)
7. Please provide a concise, specific description of the project (250 character limit):	<p>The project scope consists of the siting, procurement, and installation of bikeshare equipment to expand the Citywide GRID bikeshare program. As part of this scope, approximately 250 "bikeshare" bicycles, 360 bicycle racks, 13 large Sign Displays, and 10 bikeshare kiosks will be purchased to expand services for this program. This expanded system will compliment the City's existing bikeshare system launched in November, 2014. As part of the launch, the system opened with approximately 100-plus bicycles and 27 station locations. Since this launch, an additional 100-plus bicycles have been added to the system. Approximately \$1.7 million has been spent on the program to date to launch a 300 bike system. Another \$1.3 million (including private, city and federal funding) will be spent in fiscal year 15/16 to launch an additional 450 bikes in 40 locations in Phoenix. The bikeshare program is a complement to the City's existing bicycling network. The City is a progressive bicycling community with one of the nation's finest bicycle networks consisting of over 705 miles of bicycle facilities including routes and trails. Phoenix received a Bronze designation as a "Bicycle Friendly Community" from the League of American Bicyclists in 2014.</p>
8. Please provide the project limits:	<p>The project limits are broad with bikeshare stations planned along the existing and future light-rail station extensions. The twenty-two planned station locations are located in a boundary from Interstate 17 to 24th Street, and from Jefferson Street to Dunlap Avenue. Please see the attached map showing the bikeshare station locations.</p>

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PART B-DETAILED PROJECT DESCRIPTION																													
<p>This part of the form identifies the current characteristics and proposed improvements for each project.</p> <p>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.</p> <p>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.</p>																													
<p>1. Please select which funding source(s) this project is applying for. Check <u>all</u> that apply.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50px; border: 1px solid black; text-align: center;"><input checked="" type="checkbox"/></td> <td style="border: 1px solid black;">Congestion Mitigation and Air Quality (CMAQ)</td> </tr> <tr> <td style="border: 1px solid black; text-align: center;"><input checked="" type="checkbox"/></td> <td style="border: 1px solid black;">Transportation Alternatives (TA)</td> </tr> </table>		<input checked="" type="checkbox"/>	Congestion Mitigation and Air Quality (CMAQ)	<input checked="" type="checkbox"/>	Transportation Alternatives (TA)																								
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5. Please describe the existing condition of the project site and any problem(s) being addressed.	<div style="border: 1px solid black; padding: 5px;"> <p>Statistics show that there is a heavy dependence on the automobile mode share in the city. To encourage alternate transportation mode options, the City has launched a GRID bikeshare program in 2014 to encourage a convenient and affordable bicycle rental system. This program meshes almost seamlessly with intra-city services including the regional light-rail and bus systems, making it about as painless as possible for commuters to leave their cars at home. The program also addresses health and sustainable objectives (listed below) as well as enhance community cohesion.</p> <ul style="list-style-type: none"> Create an additional green public transit and light rail mode; Create green jobs and promote green business in Phoenix; Increase the mode share of cycling in the city; Facilitate transit for commuters, tourists, and other visitors (supplement existing mass transit including light rail). </div>																		
6. Please describe the work being done and improvements being made as part of this project.	<div style="border: 1px solid black; padding: 5px;"> <p>Project work includes siting bikeshare station locations, both on-street and off-street, to provide users with a safe, convenient access to this system. It also entails assembling and installing the bikeshare station racks, kiosks, and bicycles at these station locations. On-going work includes the maintenance of the stations/bikes and redistribution of the bicycles on a daily basis.</p> </div>																		
7. What do you hope to achieve with this project?	<div style="border: 1px solid black; padding: 5px;"> <p>The City's main objective with this project is to increase the mode share for cycling with a system that is affordable, accessible, and easy to use. Key factors for achieving this objective includes expanding the existing system to provide "convenience" for users with respect to access to station locations in close proximity to their origins and destinations. Other objectives of the program are to provide the "last mile" for bus/light rail users, create additional "green" jobs, and promote businessess in Phoenix.</p> </div>																		
8. Safety improvements to be included for this project: (Check all that apply)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20px; height: 15px;"><input type="checkbox"/></td><td>Medians with pedestrian crossing islands</td></tr> <tr><td style="width: 20px; height: 15px;"><input type="checkbox"/></td><td>Roadway Reconfiguration (Road Diet)</td></tr> <tr><td style="width: 20px; height: 15px;"><input type="checkbox"/></td><td>Striping/re-striping to narrow vehicle lanes</td></tr> <tr><td style="width: 20px; height: 15px;"><input type="checkbox"/></td><td>Color pavement or similar treatment</td></tr> <tr><td style="width: 20px; height: 15px;"><input type="checkbox"/></td><td>Lighting</td></tr> <tr><td style="width: 20px; height: 15px;"><input type="checkbox"/></td><td>Landscape buffer between sidewalk and roadway</td></tr> <tr><td style="width: 20px; height: 15px;"><input type="checkbox"/></td><td>Rectangular Rapid Flash Beacon (RRFB)</td></tr> <tr><td style="width: 20px; height: 15px;"><input type="checkbox"/></td><td>Driver Feedback Sign</td></tr> </table> </td> <td style="width: 50%; vertical-align: top;"> <p>Other</p> <div style="border: 1px solid black; padding: 5px;"> <p>Bikeshare station locations will bolster the need for new bike lanes along City streets. These new bike lanes may be installed along existing streets by either narrowing travel lanes or by road diets.</p> </div> </td> </tr> </table>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20px; height: 15px;"><input type="checkbox"/></td><td>Medians with pedestrian crossing islands</td></tr> <tr><td style="width: 20px; height: 15px;"><input type="checkbox"/></td><td>Roadway Reconfiguration (Road Diet)</td></tr> <tr><td style="width: 20px; height: 15px;"><input type="checkbox"/></td><td>Striping/re-striping to narrow vehicle lanes</td></tr> <tr><td style="width: 20px; height: 15px;"><input type="checkbox"/></td><td>Color pavement or similar treatment</td></tr> <tr><td style="width: 20px; height: 15px;"><input type="checkbox"/></td><td>Lighting</td></tr> <tr><td style="width: 20px; height: 15px;"><input type="checkbox"/></td><td>Landscape buffer between sidewalk and roadway</td></tr> <tr><td style="width: 20px; height: 15px;"><input type="checkbox"/></td><td>Rectangular Rapid Flash Beacon (RRFB)</td></tr> <tr><td style="width: 20px; height: 15px;"><input type="checkbox"/></td><td>Driver Feedback Sign</td></tr> </table>	<input type="checkbox"/>	Medians with pedestrian crossing islands	<input type="checkbox"/>	Roadway Reconfiguration (Road Diet)	<input type="checkbox"/>	Striping/re-striping to narrow vehicle lanes	<input type="checkbox"/>	Color pavement or similar treatment	<input type="checkbox"/>	Lighting	<input type="checkbox"/>	Landscape buffer between sidewalk and roadway	<input type="checkbox"/>	Rectangular Rapid Flash Beacon (RRFB)	<input type="checkbox"/>	Driver Feedback Sign	<p>Other</p> <div style="border: 1px solid black; padding: 5px;"> <p>Bikeshare station locations will bolster the need for new bike lanes along City streets. These new bike lanes may be installed along existing streets by either narrowing travel lanes or by road diets.</p> </div>
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9. Does this project include a road safety education component?	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; vertical-align: top;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20px; height: 15px;"><input checked="" type="checkbox"/></td><td>Yes</td></tr> <tr><td style="width: 20px; height: 15px;"><input type="checkbox"/></td><td>No</td></tr> </table> </td> <td style="width: 85%; vertical-align: top;"> <p>Please Explain:</p> <div style="border: 1px solid black; padding: 5px;"> <p>The GRID bikeshare regularly distributes biking safety tips to their users through their program website and flyers</p> </div> </td> </tr> </table>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20px; height: 15px;"><input checked="" type="checkbox"/></td><td>Yes</td></tr> <tr><td style="width: 20px; height: 15px;"><input type="checkbox"/></td><td>No</td></tr> </table>	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<p>Please Explain:</p> <div style="border: 1px solid black; padding: 5px;"> <p>The GRID bikeshare regularly distributes biking safety tips to their users through their program website and flyers</p> </div>												
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10. How does this project or planning study address safety?	Bikeshare addresses safety by reducing the number of cars on the street. This reduction in automobile traffic equates to less vehicular conflicts along congested corridors and major intersections. Congestion is a major contributing factor for many crashes occurring in the city.
11. How does the project improve ADA facilities for persons with disabilities?	Bike share may require some sidewalks to be widened or new ADA ramps to be built.
12. Describe how this project will improve access from nearby neighborhoods and/or adjacent uses:	Bike share programs encourage neighborhood connectivity by increasing commuting solutions. With the expansion of the system within the community, bikeshare stations will be located in many more neighborhoods to benefit these residents. It also improves access from nearby neighborhoods by locating bikeshare station locations next to transit and light rail stops as well as within the neighborhood. This station plan also provides convenience for users who are using the bikeshare system for the "last" mile of their trip to their residence.
13. How does the project create a sense of place?	Bikeshare enhances the "sense of place" by encouraging more cohesiveness with the community. It creates bonds between users and places and enhances their enjoyment of the surrounding environment. Also, greater relationships to place and community are formed by introducing an alternate mode of travel currently not afforded to the users.
14. Connectivity: (Check all that apply)	<p><input checked="" type="checkbox"/> Project fills a gap in the system Explain: Proposed Bikeshare stations will be located next to Metro light-rail stations and transit stops to provide users with the "last" mile trip mode</p> <p><input checked="" type="checkbox"/> Project connects to other local bikeways List of connected bikeways: Proposed bikeshare stations will be located along Maryland Avenue, 15th Avenue, 3rd Street, Washington Street, Jefferson Street, Roosevelt Street and other streets with designated bike routes.</p> <p><input checked="" type="checkbox"/> Multi Jurisdictional Project (please include letter of support (See Part C) List of Participating Jurisdictions: GRID bikeshare is a regional project. City of Mesa and Tempe are scheduled to deploy their GRID bikeshare programs in 2016/2017.</p> <p><input type="text" value="40"/> Total length of bikeways directly connected by this project (in miles)</p>
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.	<input type="text" value="163"/> Within 1/4 mile

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<p>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.</p>	
24	<p>Within 1/4 mile List routes and frequency:</p> <div style="border: 1px solid black; padding: 5px;"> <p>Route 3 (Van Buren) - every 10 mins., Route 7 (7th Street) - every 20 mins., Route 15 (15th Avenue) - every 30 mins., Route 16 (16th Street) - every 15 mins., Route 19 (19th Avenue) - every 11 mins., Route 27 (27th Avenue) - every 30 mins., Route 50 (Camelback) - every 10 mins., Route 60 (Bethany Home) - every 30 mins., Route 70 (Glendale/24th Street) - every 14 mins., Route 80 (Northern/Shea) - every 30 mins., Route 90 (Dunlap/Cave Creek) - every 30 mins., Route 562 (Goodyear Express) - every 20 mins., Route 563 (Avondale/Buckeye Express) - every 15 mins., Route 571 (Surprise Express) - every 15 mins., Route 573 (Northwest Valley Express) - every 30 mins., Route 575 (Northwest Valley Express) - every 15 mins., Route CSM (Central South Mountain Rapid) - every 30 mins., Route DASG (Downtown Area Shuttle (Government Loop)) - every 12 mins., Route GAL (Grand Avenue Limited) - every 60 mins., Route I10W (I-10 West Rapid) - every 13 mins., Route I17 (I-17 Rapid) - every 5 mins., Route METS (19th Avenue Connector) - every 15 mins., Route ZERO (Central Avenue) - every 10 mins., Route Light Rail (Valley Metro Rail) - every 12 mins.</p> </div>
<p>17. Number of major transit facilities (park and rides, transit centers, etc.) served by this project:</p>	
4	<p>Within 1/4 mile List:</p> <div style="border: 1px solid black; padding: 5px;"> <p>Park And Ride (2): 19th Ave and Montebello, 19th Ave and Camelback Transit Center (2): 19th Ave and Montebello, MetroCenter</p> </div>
<p>18. Number of non-commercial activity centers (parks, libraries, senior centers, recreational centers, etc.) this project will benefit:</p>	
4	<p>Within 1/4 mile List:</p> <div style="border: 1px solid black; padding: 5px;"> <p>University Park Recreation Center, University Park, Monterey Park, Solano Park, University Pool</p> </div>
<p>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):</p>	
17	<p>Within 1/4 mile List:</p> <div style="border: 1px solid black; padding: 5px;"> <p>Major Centers: Metro Center Mall, Canyon Corporate Plaza, Continental Center, El Monte Plaza, Sprouts Plaza, Albertsons Plaza, Fry's Food Plaza, Christown Spectrum Mall, Walgreens Plaza, Great American Tower, Phoenix Plaza PT LLC, Phoenix Corporate Center, Park Central, Executive Towers, Park North Shopping Center, Government Mall, Arizona Capitol</p> </div>
<p>20. Number of K-8 public schools this project will benefit:</p>	
2	<p>Within 1/4 mile List:</p> <div style="border: 1px solid black; padding: 5px;"> <p>Orangewood Elementary School, Capitol Elementary School</p> </div>
<p>21. Number of other schools (charter schools, high schools, colleges, and universities) this project will benefit:</p>	
12	<p>Within 1/4 mile List:</p> <div style="border: 1px solid black; padding: 5px;"> <p>Charter Schools (6): Imagine Elementary at Camelback, Midtown Primary School, E-Institute at Metro, Westwind Academy Middle School, Khalsa Montessori Elementary School, Westwind Preparatory Academy Private School (3): Xavier College Preparatory School, Blueprint Education, St. Mary's High School College (3): Phoenix College, DeVry University, Rio Salado College Northern</p> </div>

Phoenix : City of Phoenix Bikeshare Expansion Project (2018)													
PART B-DETAILED PROJECT DESCRIPTION													
<p>25. Please provide an estimated traffic volume (ADT) on the nearest parallel arterial.</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <table style="width: 100%; border: none;"> <tr> <td style="border: 1px solid black; padding: 2px;">Various, Please see below</td> <td style="border: none;">ADT Estimate</td> </tr> </table> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <table style="width: 100%; border: none;"> <tr> <td style="border: 1px solid black; padding: 2px;">9/1/14</td> <td style="border: none;">Date Counted</td> </tr> </table> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>Name of road the traffic count was taken from</p> <div style="border: 1px solid black; padding: 5px;"> <p>19th Avenue - 19,500 ADT; 24th Street - 22,100 ADT; 7th Street - 31,600 ADT; 15th Avenue - 14,300 ADT; 15th Avenue - 12,200 ADT; 3rd Street - 17,300 ADT; Camelback Road - 44,4000 ADT; Glendale Avenue 37,000 ADT; Washington Street 8,500 ADT; Roosevelt Street 10,1000 ADT; Northern Avenue - 41,400 ADT; Bethany Home Road - 31,800 ADT; ETC</p> </div> </div> <div style="border: 1px solid black; padding: 5px;"> <p>Description of Methodology and Source used for the ADT Estimate</p> <div style="border: 1px solid black; padding: 5px;"> <p>Average Daily Traffic (ADT) is calculated by first calibrating the traffic count by month/day to account for daily and seasonal fluctuations in traffic. ADT may not represent the actual count taken on a particular day but instead has been adjusted to represent anticipated traffic flow on an average day throughout the year. the daily factors are calculated by first averaging the bi-directional traffic volume totals for the 12 full weeks of each weekday. The factor is that average divided by the sum of each of the 12 instances of a weekday day.</p> </div> </div>		Various, Please see below	ADT Estimate	9/1/14	Date Counted								
Various, Please see below	ADT Estimate												
9/1/14	Date Counted												
<p>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.</p> <p>Describe any known cultural, historical and biological resources, hazardous materials or other environmental issues that could affect work on the segment.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>There are no known cultural, historical, hazardous materials and/or other environmental issues with this bikeshare project.</p> </div>													
<p>27. Current ROW: (Check all that apply)</p> <table style="width: 100%; border: none; margin-top: 5px;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 20px; text-align: center;">X</td> <td style="border: none; padding: 2px;">Agency owns all ROW Needed</td> <td style="border: 1px solid black; padding: 2px; width: 20px; text-align: center;"></td> <td style="border: none; padding: 2px;">Agency owns easement</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; text-align: center;"></td> <td style="border: none; padding: 2px;">ROW to be acquired</td> <td style="border: 1px solid black; padding: 2px; text-align: center;">X</td> <td style="border: none; padding: 2px;">Agency has right-of-use (i.e. canal)</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px; text-align: center;"></td> <td style="border: none; padding: 2px;">Owners will donate ROW</td> <td style="border: 1px solid black; padding: 2px; text-align: center;"></td> <td style="border: none; padding: 2px;">Condemnation may be required</td> </tr> </table>		X	Agency owns all ROW Needed		Agency owns easement		ROW to be acquired	X	Agency has right-of-use (i.e. canal)		Owners will donate ROW		Condemnation may be required
X	Agency owns all ROW Needed		Agency owns easement										
	ROW to be acquired	X	Agency has right-of-use (i.e. canal)										
	Owners will donate ROW		Condemnation may be required										
<p>28. Please describe any right of way issues associated with the project.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Right-of-Way issues can be avoided by following Bikeshare station siting guidelines that specify general requirements for the installation of the stations including:</p> <ul style="list-style-type: none"> - Place stations in well-lit area with good street lighting - Avoid placing bikeshare racks next to fire hydrants or fire zones - Avoid placing station under a tree to reduce cleaning requirements - Avoid obstructing street signs with station - Avoid placing stations adjacent to active curb cuts or driveways, or in commercial loading zones. - Avoid placing stations on or next to utility manholes or other service points. - Avoid obstructing pedestrian pathways and business entrances with station. </div>													
<p>29. Please indicate whether all parcels for this project have been inventoried.</p> <table style="width: 100%; border: none; margin-top: 5px;"> <tr> <td style="border: 1px solid black; padding: 2px; width: 20px; text-align: center;"></td> <td style="border: none; padding: 2px;">Yes</td> <td style="border: 1px solid black; padding: 2px; width: 20px; text-align: center;">NA</td> <td style="border: none; padding: 2px;">No</td> </tr> </table>			Yes	NA	No								
	Yes	NA	No										

Phoenix : City of Phoenix Bikeshare Expansion Project (2018)	
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"/> Canals & Drainage <input type="checkbox"/> Power Lines & Cables <input type="checkbox"/> Pipelines, Sewer and Water	<input type="checkbox"/> Private Structures Other: <input type="text" value="NA. Bikeshare station locations do not impact overhead and/or underground utilities"/>
31. Please describe any utility conflicts that will need to be addressed.	
Utility conflicts can be avoided by following Bikeshare station siting guidelines that specify general requirements for the installation of the stations including: <ul style="list-style-type: none"> - Avoid placing stations on or next to utility manholes or other service points - Provide proper setbacks from street lights, traffic signals, and other utility appurtenances - Avoid placing stations next to fire hydrants. 	
32. Guidelines used to develop project: (Check all that apply)	
<input checked="" type="checkbox"/> AASHTO Guide for Bicycle Facilities <input checked="" type="checkbox"/> MAG Pedestrian Policies and Design Guidelines <input type="checkbox"/> MAG Complete Streets Guide <input type="checkbox"/> MAG Designing Transit Accessible Communities <input type="checkbox"/> MAG Valley Path Brand & Wayfinding Signage Guidelines <input type="checkbox"/> NACTO Urban Bikeway Design Guide <input type="checkbox"/> RPTA Bus Stop Program and Standards	Other: <input type="text"/>
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="Recommended"/>
With pavement restoration or regular pavement maintenance on arterial streets, bike lanes are:	<input type="text" value="Recommended"/>
With new development or during development retrofits, shared-use paths are:	<input type="text" value="Recommended"/>
Bicycle program implemented, including bike education, safety events, and bike maps	<input type="text" value="Yes"/>
Complete Streets Policy	<input type="text" value="Yes"/>
34. The project is: (Check one)	
<input checked="" type="checkbox"/> Identified in General Plan, council adopted policy, or Capital Improvements Program (provide source) List: <input type="text" value="City Council authorized the GRID bikeshare contract on June 5, 2013. The Grid Bikeshare program (Phase I) was"/>	
<input checked="" type="checkbox"/> Consistent with general policy/practices, but not formally identified (provide source) Explain: <input type="text" value="Bikeshare is consistent with the 'Complete Streets' ordinance adopted in June, 2015. Also, the Bikeshare"/>	
<input type="checkbox"/> Not addressed by jurisdiction's plans, policies, or practices Explain: <input type="text"/>	

Phoenix : City of Phoenix Bikeshare Expansion Project (2018)	
PART B-DETAILED PROJECT DESCRIPTION	
<p>35. How will the applicant measure the success of this project?</p>	<p>The City would measure the success of the program by utilizing performance metrics such as ridership, utilization, user satisfactions, projected motorist trip reductions. and other measures of success. This measure of success would also include the annual emission reductions with the system use.</p>
<p>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?</p>	<p>Yes, the bicycle count metrics for the bikeshare program will include the total mileage, specific routes, and other general user profile information.</p>
<p>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.</p>	<p>The bikeshare project includes an ongoing marketing and education component to address user safety and increase ridership. Bikeshare will be promoted at special events, sporting events, public meetings, etc. Also, there is an active bikeshare website that provides education and marketing information.</p>
<p>38. Will the project include wayfinding signage elements? If yes, please describe below.</p>	<p>The project will include the installation of the SoBi (Social Bicycles) Large Map Signs (58" x 30") at the bikeshare station locations that provide station location information. Also, the station locations can be easily accessed through the GRID bikeshare phone app for users.</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:		Project Title:		Application Date:								
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	\$27,000.00	\$27,000.00	No	\$0.00	\$27,000.00		
	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)						\$27,000.00		\$0.00	\$27,000.00		
B. Final Preliminary Engineering Design - Stages II, III, IV And PS&E	1. Plans, Special Provisions or Bid Manual, Cost Estimate & Schedules.			LS	1		\$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)						\$27,000.00		\$0.00	\$27,000.00			
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		
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				1		\$0.00		\$0.00	\$0.00			

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:							
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	
	Bikeshare Bicycles (incl. assembly, shipping, parts kit)			250	\$2,050	\$512,500	Yes	\$483,288	\$29,213		
	Bikeshare Kiosks (incl. Site prep, base plate, shipping, system map)			360	\$754	\$271,400	Yes	\$255,931	\$15,470		
	Bikeshare Station Large Map Signs/Base			13	\$3,465	\$45,045	Yes	\$42,473	\$2,572		
	Solar Bikeshare Payment Kiosk (incl. base plate, shipping, map, assembly)			10	\$14,500	\$145,000	Yes	\$136,735	\$8,265		
				1		\$0	Yes	\$0	\$0		
				1		\$0	Yes	\$0	\$0		
				1		\$0	Yes	\$0	\$0		
	Subtotal Other Construction					\$973,940		\$918,426	\$55,515		
	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		
	Subtotal Construction Or Implementation Cost (Part E)					\$973,940		\$918,426	\$55,515		
F. Total Scoping, PE, Right-of-Way Acquisition, Utility Relocation, and Construction (Part A, B, C, D, and E)						\$1,000,940	\$918,426	\$82,515			
G. Adot Fee Review Fee - \$10,000 for Certified Accepted agencies, otherwise \$30,000						\$10,000	\$0	\$10,000			
H. Total Project Cost Including ADOT Fees (Part F + Part G)						\$1,010,940	\$918,426	\$92,515			

Phoenix: City of Phoenix Bikeshare Expansion Project (2018)

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	\$27,000	
3. Right of way	\$0	
4. Utilities	\$0	
5. Construction	\$973,940	
6. Contingency	\$0	No more than 20% of Construction Cost
7. Total Cost	\$1,010,940	

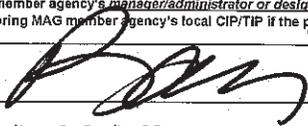
8. Will the agency maintain the improvement after it is completed? No

9. Expected Annual Maintenance Cost 375,000

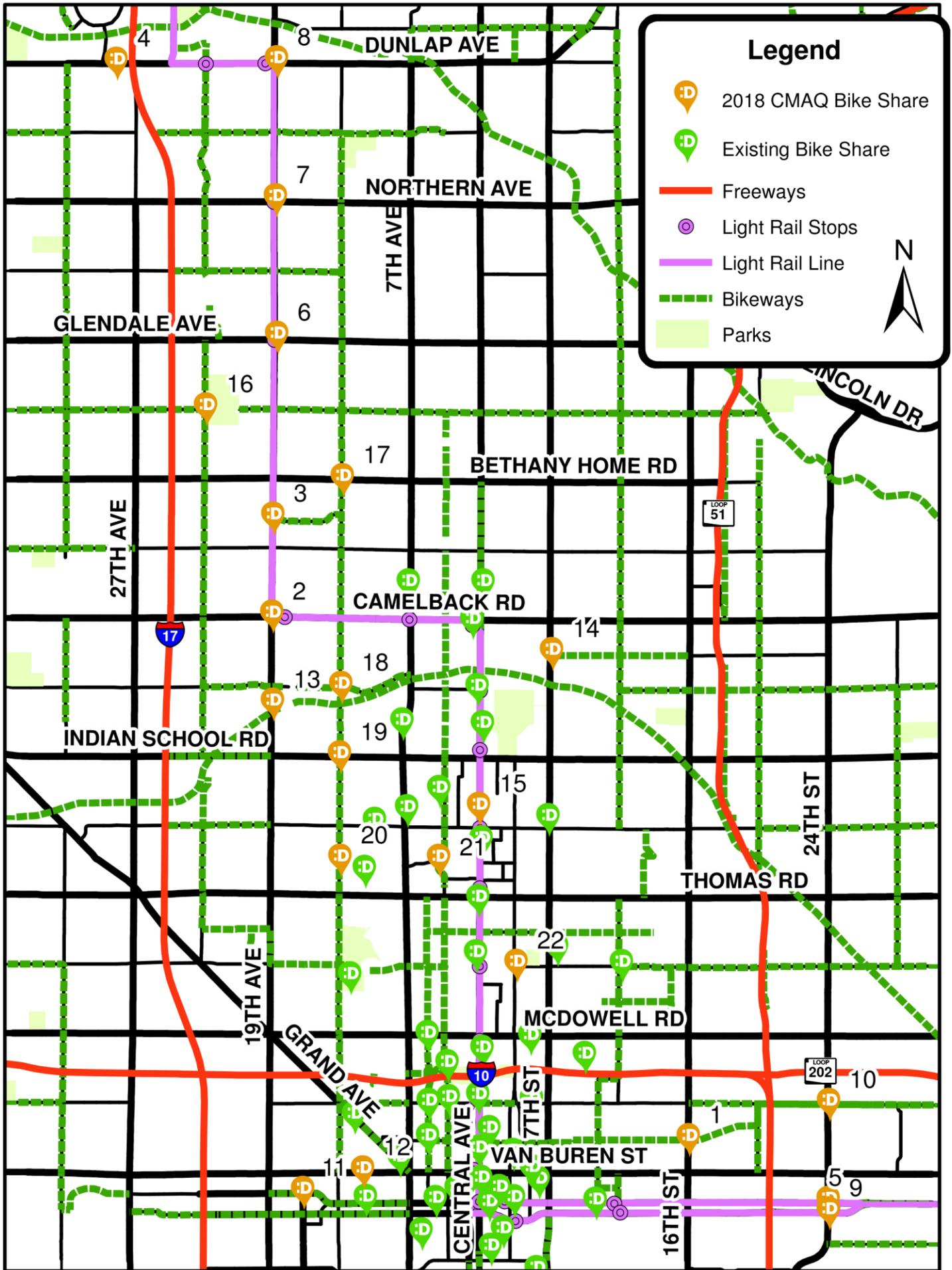
10. Identify Source of Maintenance Funds Maintenance and operating funds will be covered by private bikeshare operator (Cyclehop LLC) through Contract.

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)	2017	Bikeshare Station Siting		\$27,000	Not Available	\$27,000	100.0%
12. Right of way (Optional)				\$0	Not Available	\$0	
13. Utilities (Optional)				\$0	Not Available	\$0	
14. Other (Optional)		ADOT Fee		\$10,000	Not Available	\$10,000	100.0%
15. Construction	2018	Bikeshare Equipment (Bikes, Racks, Kiosks, Map Signs)		\$55,515	\$918,426	\$973,940	5.7%
16. Total Costs				\$92,515	\$918,426	\$1,010,940	9.2%

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	✓
PART A - Contacts and Project Description Fields	Complete?
Contact Information, fields 1 – 5 are complete	✓
Project Description, fields 6 - 8 are complete	✓
PART B - Project Description	Complete?
Fields 1 - 14 (Project Description) are complete	✓
Fields 15 - 17 (Transit) are complete	✓
Fields 18 – 22 (Attractors and Demographics) are complete	✓
Fields 23 – 30 (Traffic, Environmental, ROW, and Utilities) are complete	✓
Fields 31 – 33 (Guidelines, Policies, and Plans) are complete	✓
Fields 34 – 37 (Maintenance, Performance Measurement, and Wayfinding) are complete	✓
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.	✓
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.	✓
Field 3 - Up to four (4) photos of existing conditions are provided in the printed application and the PDF application (two 4x6 per page).	✓
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.	N/A
(OPTIONAL) - Up to two (2) photos/renderings of the completed project are provided in the printed application and the PDF application.	
(OPTIONAL) - Up to three (3) letters of support for the project are provided in the printed application and the PDF application.	
(OPTIONAL) - GIS coverage (shapefile or geodatabase) is provided on the CD with the application.	
PART D - Cost Estimate Worksheet	Complete?
Sponsoring Agency, Project Title, and Application Date are complete	✓
Part A - Scoping is complete	✓
Part B - Final Preliminary Engineering Design is complete	✓
Part C - Right-of-Way Acquisition is complete	✓
Part D - Utility Relocation is complete	✓
Part E - Construction or Implementation is complete	✓
Parts F, G, and H - Costs are complete and accurate	✓
PART E - Total Project Schedule and Budget Including All Segment Fields	Complete?
Fields 1 – 7 are complete and costs are accurate	✓
Field 8 - 10 are complete	✓
Fields 11 – 15 Years are complete	✓
Fields 11 – 15 Local Funding Sources are complete	✓
Fields 11 – 15 Local Costs are complete and accurate	✓
Field 11 - 15 Federal Costs are complete and accurate	✓
Field 16 Total Costs are complete and accurate	✓
PART F - Signature and Checklist	Complete?
Entire checklist is completed.	✓
Form is signed by MAG member agency's manager/administrator or designated representative.	✓
Name, title and date fields under the signature are completed.	✓

SIGNATURE(S):	
As the MAG member agency's <u>manager/administrator or designated representative</u> , 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:	Name: Ray Dovalina, P.E.
Title:	Title: Street Transportation Director
Date:	Date: September 16, 2015

2018 Regional Bike Share



CMAQ 2018 Application
Bikeshare Station Sites

No.	Location	Site Attraction
1	16th Street & Filmore Street	St. Lukes Medical Center
2	19th Avenue & Camelback	Light Rail Station
3	19th Avenue & Montebellow	Light Rail Station
4	Dunlap and 28th Avenue	Metro Center
5	24th Street & Washington Street	Light Rail Station
6	19th Avenue & Glendale	New Light Rail Station
7	19th Avenue & Northern	New Light Rail Station
8	19th Avenue & Dunlap	New Light Rail Station
9	24th Street & Jefferson	Light Rail Station
10	24th Street & Roosevelt	Maricopa Integrated Health System
11	17th Avenue & Washington St	Bolin Memorial Park/Capitol District
12	12th Avenue & Van Buren	University Park
13	19th Avenue & Turney Avenue	Grand Canal Bike Path
14	7th Street & Highland	Grand Canal Bike Path
15	Central & Columbus Avenue	National Park Service HQ
16	23rd Avenue & Maryland	Washington Park
17	15th Avenue & Bethany Home Rd	Christown Sectrum Mall
18	15th Avenue & Campbell Avenue	Grand Canal Bike Path
19	15th Avenue & Indian School Road	Metro Stop
20	15th Avenue & Earll Drive	Metro Stop- Hogans Field
21	3rd Avenue & Earll Drive	Park Central Mall
22	Oak Street & 3rd Street	Monterey Park







