

Pinal Area Surface Transportation Program (STP) Funding Application for 2018 and 2020 **(Due By 10:00 A.M., Monday, September 21,2015)**

General Instructions

Eligibility Requirements

Projects requests must comply with the following requirements:

1. Be sponsored by a MAG member agency,
2. Be located in parts of Pinal County within the boundaries of the MAG planning area
3. Be on a roadway that is federally classified as a major collector or above, or on a roadway that will be classified as major collector or above upon completion of the project
4. Complete one or more of the following work activities:
 - a. Expansion of capacity,
 - b. Rehabilitation of existing infrastructure, including both roadways and bridges,
 - c. Improvement of traffic intersections, and
 - d. Drainage improvements.

Funding from STP program in Pinal County may not be flexed to transit.

Funding Availability

All funding available through this application is federal Surface Transportation Program (STP) funding. The minimum local match for this funding is 5.7 percent of total project cost. The amount and year in which funding is available for federal obligation* is approximately **\$0.4 million for federal fiscal year 2018 and \$1.3 million for federal fiscally year 2020.**

* Obligation refers to a federal commitment to reimburse a project sponsors for expenses accrued in the development of a project. These expenses must meet federal requirements for eligibility and will occur after the date of obligation until the project is either completed or the federal funding is used up.

Application Layout

The applications is divided into four work sheets as follows:

1. Project Sheet - this sheet is used to provide an overview of the project. It is required for all projects.
2. Road Sheet - this sheet is used to provide information on road project. A separate work sheet is required for each major typical roadway section or bridge to be improved.
3. Intersection Sheet - this sheet is used to provide information on an intersection project. A separate work sheet is required for each intersection to be improved.
4. Cost Sheet - this is a sheet for developing a cost estimate. This sheet is OPTIONAL.
5. Budget Sheet - this sheet is used to layout a budget for the project and provide a place to sign the application. A budget sheet is required for all projects and must include all work necessary to complete the project regardless of funding source. The signature part of the page must be signed with the submitted printed copy of the application.
6. Checklist Sheet - this sheet is OPTIONAL. This page provides a place for the agency to verify that it has completed all fields in the application.

Instructions for each sheet are located at the top of the sheet. Unless specifically identified all items are required.

The spreadsheet also includes some informational items. These include:

1. ADOT Fees - tables showing ADOT fees
2. Map - a map showing the area where projects may be programmed for the funding

Pinal Area Surface Transportation Program (STP) Funding Application for 2018 and 2020 (Due By 10:00 A.M., Monday, September 21,2015)

Transmittal Instructions and Application Deadline

Application Submittal Requirements

All applications are due on **Monday, September 21, 2015 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 PartE 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 PartE 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.

Application Workshops and Open Working Group Meeting Schedule*

Date	Time	Room	Event
Wednesday, August 19, 2015	10:00-11:30 AM	Saguaro	Workshop on MAG Transportation Programming and Federal Fund Project Applications
Monday, August 24, 2015	8:30-10:00 AM	Chaparral	Open Working Group - Federal Fund Project Applications
Monday, September 14, 2015	9:00-10:00 AM	Chaparral	Open Working Group - Federal Fund Project Applications

* All meetings will be held on the 2nd floor of the MAG Offices at 302 N. 1st Avenue, Phoenix, AZ 85003

MAG CONTACT INFORMATION

Contact Name	Phone	E-Mail Address
MAG Offices	602-254-6300	
Teri Kennedy	602-254-6300	TKennedy@azmag.gov
Stephen Tate	602-452-5010	State@azmag.gov
John Bullen	602-254-6300	JBullen@azmag.gov

- Southern Avenue from Delaware Drive to Ironwood Dr Project Description Sheet		
Instructions	1. Please enter values for all cells with a green fill pattern 2. All cells are required. If the information is not applicable enter "None" or 0.	
1. Project Sponsorship	Project Sponsor Name	Apache Junction
	Other Participating Agencies	None
2. Project Location	Identify the Project Location (50 Char Limit)	Southern Avenue from Delaware Drive to Ironwood Drive, 1/2 mile from city boundary.
	Attach a map depicting the project.	Location Map - See Attached
	Attach a vicinity map of the project	Vicinity Map - See Attached
3. Project Work Description	Provide a short work description (50 char limit)	Design and Construct a left turn lane & bike lanes
	Overview - please describe the work to be performed, its benefits and costs	The project is a half mile short of connecting to the county line. Southern Avenue is a two lane arterial road. Southern Avenue will provide an east-west corridor to enable motorists to enter into the City of Mesa or to be used as a bypass roadway when US60 is closed.
4. Proximity to the Nearest Employment and Commercial Center	Employment Center	
	Name of Nearest Employment Center	Banner Goldfield Medical Center
	Approximate Number of Employees at the center	1506
	Distance to the project	< 1 mile
	Commercial Center	
	Name of Nearest Commercial Center	Walgreens
	Approximate Square Footage of the Commercial Center	14,500
	Distance to the project	< 1 mile
5. Regional Connectivity	Does the Project Improve Connectivity	Yes
	If answer above was yes, briefly discuss how the project improves regional/multijurisdictional connectivity.	Southern Avenue currently connects to the City of Mesa and Maricopa County. The improvements will add capacity also allowing for bicycle and pedestrian connectivity.

- Southern Avenue from Delaware Drive to Ironwood Dr Project Description Sheet		
Instructions	1. Please enter values for all cells with a green fill pattern 2. All cells are required. If the information is not applicable enter "None" or 0.	
6. Agency Plans	IS the project included in Agency Plans	Yes
	If the check box above is checked, briefly discuss jurisdiction General/Transportation Pan and the role of the project in the plan.	City of Apache Junction Comprehensive Transportation Study and the City's CIP/CRP.
7. Community Involvement	Is the project a community request	Yes
	If the check box above is checked, briefly describe the nature of the community request.	Currently vehicles heading eastbound have to wait to turn left into the medical center, holding up the through traffic. Same with the westbound traffic turning left into the housing development.

- Southern Avenue from Delaware Drive to Ironwood Dr Roadway Segment Sheet		
Instructions	<p>1. This sheet is required for all roadway segment and bridge projects. Please omit if the project is exclusively an intersection project. 2. Items for #4 and #14 may be omitted for non bridge projects, all other green colored cells are required 3. A Excel work sheet for each distinct roadway section or segment is required. To add a new worksheet to this Excel workbook file, do the following:</p> <ul style="list-style-type: none"> > Right Click on the Roadway tab at the bottom of the screen > Select the "Move or Copy" option > Select the "Roadway" sheet > Check the "Create Copy" box > Click the "Okay" button 	
1. Roadway Location	Roadway Name	Southern Avenue
	Starting Limit	Ironwood Drive
	Ending Limit	Delaware Drive
	Length (to nearest 10th of a mile)	0.50
Current Roadway Characteristics		
2. Federal Functional Classification	Please select the federal functional classification of the roadway	Minor Arterial
	Link to Functional Classification Maps	
3. Current Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved	Cross Section - See Attached
	Attach a photo(s) of the current roadway	Existing Conditions Photos - See Attached
	Number of Through Lanes (Both directions)	1
4. Bridge Condition (Required only for bridge projects)	Bridge Sufficiency Rating (from ADOT NBI Table)	0
	Is Structurally Deficient?	No
	Is Functionally Obsolete?	No
	Link to ADOT NBI Table	
5. Pavement Condition	Pavement Type	Asphalt Bituminous
	Pavement Rating	
	Name or Description of Rating System Used - e.g. PCI, PSR, etc..	RSL (Remaining Service Life)
	Rating system scale - please describe the scale used in the rating system - e.g. it ranges from 1 to 100 with 100 being the best condition.	1 to 20
	Date of Rating	11/24/2014
	Rating	10

- Southern Avenue from Delaware Drive to Ironwood Dr Roadway Segment Sheet		
6. Traffic	Traffic Count	
	Please describe how the count was collected	Summer Counts 2015, Approach Volumes
	Date of Count	
	AADT	10,747
	K-Factor - Percent of traffic in the peak hour	10%
	D-Factor - Percent of design hour volume flowing in the peak hour direction	65%
	Number of lanes in the Peak Hour Direction	1
	Posted Speed Limit (mph)	45
Peak Hour Speed (mph)	50	
7. Safety	Number of crashes in last 3 years by crash type.	25 incidents between 05/01/12 to 04/30/15
	Number of fatality crashes	0
	Number of incapacitating crashes	0
	Number of non incapacitating crashes	5
	Number of possible injury crashes	4
	Number of property damage only crashes	0
8. Multimodal	Does the roadway have a transit Route?	No
	Does the roadway have a striped bicycle lanes?	No
Proposed Roadway Characteristics and Improvements		
9. Proposed Functional Classification	Please select the federal functional classification of the roadway	Minor Arterial
	Link to Functional Classification Maps	
10. Proposed Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved.	Cross Section - See Attached
	Number of Through Lanes on the improved roadway (Both directions)	2
11. Access Control Improvements	Please describe access control issues and proposed improvements	there are some existing streets private driveways that intersect Southern Avenue within the limits of the project. Access to these driveways and streets will be maintained as is.

- Southern Avenue from Delaware Drive to Ironwood Dr Roadway Segment Sheet		
12. Alignment Improvements	Describe horizontal alignment issues and proposed improvements	The existing horizontal alignment will remain the same.
	Describe vertical alignment and proposed improvements	The vertical alignment of the widening will remain the same.
13. Drainage Improvements	Describe drainage issues and proposed improvements	The roadway will be designed to include curb & gutter and a 2% crown will drain to the north and south side of the street into the curbs, where it will ultimately end up in a wash near the existing thirteen (13) barrel outlet structure crossing Southern Avenue west of Delaware Drive.
14. Bridge improvements (Required for bridge projects only)	Describe Bridge issues and proposed Improvements	There are no bridges associated with this project.
15. Pavement Improvements	Proposed Pavement Type	Asphaltic Concrete
	Describe the current condition of the pavement and proposed improvements	Current condition of the pavement is a two lane roadway that is at best half its service life. The proposed condition will add an additional through lane and bicycle lanes. The existing pavement will be sawcut for the installation of the new lanes.
16. Traffic Improvements	Describe traffic issues and proposed Improvements	Proposed improvements consist of one-twelve foot wide travel lane in both directions, one-twelve foot center shared left turn lane, and two five foot bicycle lanes.
17. Safety Improvements	Describe safety issues and proposed Improvements	The project will be designed in accordance with current safety guidelines published by the American Association of State Highway and Transportation Officials (AASHTO) and the current edition of the Manual of Uniform Traffic Control Devices (MUTCD).
18. Multimodal Improvements	Describe multimodal issues and proposed Improvements	This project will provide bicycle lanes.
Environmental, Right-of-way and Other Considerations		
19. Environmental	Please describe environmental impacts or challenges of the project - .e.g. endanger species, cultural assets, hazardous materials sites, 4Fs, Title VI populations, wet lands that would be affected by the project.	There are no environmental impacts anticipated for this project.
20. Right-of-way	Please describe right-of-way issues - e.g. whether right-of-way will be required, how much right-of-way will be required, if right-of-way is needed are actors such as the State Lands Department be involved, etc.	The city has 50 feet of right-of-way (ROW) on both sides of Southern Avenue for the entire length of the project except in front of a mobile home park, whose park wall is already set back 50 feet from the centerline. So no relocation costs will be needed. Approximately 1.51 acres of new ROW will need to be acquired either by donation or purchase, which will be 100% city cost.
21. Development Activity	Please describe planned and ongoing development activity that could impact the proposed project	Vacant land currently exists along the project corridor. Planning documents have been submitted to the city for residential housing near the intersection at Ironwood Drive, just east of the medical center.

- Southern Avenue from Delaware Drive to Ironwood Dr Roadway Segment Sheet		
22. Utilities	Please describe utilities that could impact the proposed project	There are approximately 7 overhead power poles on the north side of Southern which will remain in place. Street lighting can be placed on the south side of the street so that it does not interfere with the overhead poles. Installation of street lighting is anticipated to be \$175,000, design is anticipated to be \$32,000. Sewer is under existing pavement, no conflicts are anticipated.

- Southern Avenue from Delaware Drive to Ironwood Dr Traffic Intersection Sheet		
1. Intersection Location	Roadway Name A	
	Roadway Name B	
Current Intersection Characteristics		
2. Federal Functional Classification	Federal Functional Classification of Roadway A	None
	Federal Functional Classification of Roadway B	None
	Link to Functional Classification Maps	
4. Current Intersection Configuration	Attach an intersection diagram	(Attach an intersection diagram that details all lanes (through, left and center lanes) and associated widths)
	Attach a photo(s) of the current intersection	(Attach photo(s) of the intersection)
	Number of through lanes	
	Roadway A	
	Roadway B	
5. Pavement Condition	Pavement Type	Unpaved
	Pavement Rating	
	Name or Description of Rating System Used - e.g. PCI, PSR, etc..	
	Rating system scale - please describe the scale used in the rating system - e.g. it ranges from 1 to 100 with 100 being the best condition.	
	Date of Rating	
	Rating	
6. Traffic	Traffic Volume in the Peak Hour by approach	
	Approach 1 traffic volume	
	Approach 2 traffic volume	
	Approach 3 traffic volume	
	Approach 4 traffic volume	

- Southern Avenue from Delaware Drive to Ironwood Dr Traffic Intersection Sheet		
7. Safety	Number of crashes in last 3 years by crash type.	
	Number of fatality crashes	
	Number of incapacitating crashes	
	Number of non incapacitating crashes	
	Number of possible injury crashes	
	Number of property damage only crashes	
8. Multimodal	Does the roadway have a transit Route?	No
	Does the roadway have a striped bicycle lanes?	No
Proposed Intersection Characteristics and Improvements		
9. Federal Functional Classification	Federal Functional Classification of Roadway A	None
	Federal Functional Classification of Roadway B	None
	Link to Functional Classification Maps	
10. Proposed Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved	(Attach an intersection diagram that details all lanes (through, left and center lanes) and associated widths)
11. Access Control Improvements	Please describe access control issues and proposed improvements	
12. Pavement Improvements	Proposed Pavement Type	Unpaved
	Describe pavement issues and proposed Improvements	
13. Traffic Improvements	Improves traffic throughput in the intersection	
	Describe traffic issues and proposed Improvements	
14. Safety Improvements	Addresses safety issues at a current intersection	
	Describe safety issues and proposed Improvements	
15. Multimodal Improvements	Describe multimodal issues and proposed Improvements	

- Southern Avenue from Delaware Drive to Ironwood Dr Traffic Intersection Sheet		
Proposed Intersection Characteristics and Improvements		
16. Environmental	Please describe environmental impacts or challenges of the project - .e.g. endanger species, cultural assets, hazardous materials sites that would be affected by the project.	
17. Right-of-way	Please describe right-of-way issues - e.g. whether right-of-way will be required, actors such as the State Lands Department will be involved, etc.	
18. Development Activity	Please describe planned and ongoing development activity that could impact the proposed project	
19. Utilities	Please describe utilities that could impact the proposed project	

**- Southern Avenue from Delaware Drive to Ironwood Dr
MAG PINAL AREA STP PROJECTS COST ESTIMATE WORKSHEET
(Cost Estimates Are Required)**

Instructions		1. Cost estimates from this sheet transfer directly to the budget estimate 2. Please select "Yes" if the item will be programmed in a federally funded work phase						
ITEM DESCRIPTION	UNIT	TOTAL QUAN.	UNIT PRICE	TOTAL COST	PROGRAMMED WITH FEDERAL FUNDS	FEDERAL SHARE	LOCAL SHARE	
PRELIMINARY ENGINEERING <i>(Required for Budget)</i>	Topographic Survey	LS	1	\$ 15,000.00	\$ 15,000.00	No	\$ - \$ 15,000.00	
	Design Concept Report (DCR)	LS	1	\$ 15,000.00	\$ 15,000.00	No	\$ - \$ 15,000.00	
	Federal Project Environmental Determination	LS	1	\$ 10,000.00	\$ 10,000.00	No	\$ - \$ 10,000.00	
	HAZMAT Assessment	LS	1	\$ 7,500.00	\$ 7,500.00	No	\$ - \$ 7,500.00	
	SUBTOTAL - PRELIMINARY ENGINEERING COSTS				\$ 47,500.00		\$ - \$ 47,500.00	
FINAL DESIGN <i>(Required for Budget)</i>	Plans, Specifications, Cost Estimates, Bidding	LS	1	\$ 120,000.00	\$ 120,000.00	No	\$ - \$ 120,000.00	
	Geotechnical Report	LS	1	\$ 8,000.00	\$ 8,000.00	No	\$ - \$ 8,000.00	
	Drainage Report	LS	1	\$ 10,000.00	\$ 10,000.00	No	\$ - \$ 10,000.00	
	SWPPP	LS	1	\$ 7,500.00	\$ 7,500.00	No	\$ - \$ 7,500.00	
	SUBTOTAL - FINAL DESIGN COSTS				\$ 145,500.00		\$ - \$ 145,500.00	
RIGHT OF WAY <i>(Required for Budget, May be 0 if now ROW)</i>	Appraisals and Title Reports	LS	1	\$ 3,000.00	\$ 3,000.00	No	\$ - \$ 3,000.00	
	Road Right of Way	LS	1	\$ -	\$ -	No	\$ - \$ -	
	Temporary Construction Easements	LS	1	\$ -	\$ -	No	\$ - \$ -	
	Drainage Easement	LS	1	\$ -	\$ -	No	\$ - \$ -	
	Utility Easements/Right of Way	LS	1	\$ -	\$ -	No	\$ - \$ -	
	Aerial Electrical Easement	LS	1	\$ -	\$ -	No	\$ - \$ -	
	Sign Relocations	LS	1	\$ -	\$ -	No	\$ - \$ -	
	Relocation Expenses	LS	1	\$ -	\$ -	No	\$ - \$ -	
	Site Environmental Assessments	EA	1	\$ -	\$ -	No	\$ - \$ -	
	Building Demolition	EA	1	\$ -	\$ -	No	\$ - \$ -	
	Other Right of Way Expenses		0	\$ -	\$ -	No	\$ - \$ -	
	Other Right of Way Expenses		0	\$ -	\$ -	No	\$ - \$ -	
	Other Right of Way Expenses	EA	1	\$ -	\$ -	No	\$ - \$ -	
	SUBTOTAL - RIGHT OF WAY COSTS				\$ 3,000.00		\$ - \$ 3,000.00	
UTILITY RELOCATIONS <i>(Required for Budget, May be 0 if now Utilities)</i>	Relocate 69 kv (+) Poles	EA	0	\$ -	\$ -	No	\$ - \$ -	
	Relocate/Underground 12 kv lines	LF	0	\$ -	\$ -	No	\$ - \$ -	
	Relocate/Underground Irrigation Canal	LF	0	\$ -	\$ -	No	\$ - \$ -	
	SWG Relocations	LS	1	\$ -	\$ -	No	\$ - \$ -	
	Telephone/Cable TV Relocations	LS	1	\$ -	\$ -	No	\$ - \$ -	
	Upgrade Railroad Crossings	LS	1	\$ -	\$ -	No	\$ - \$ -	
	Other Utilities	LS	1	\$ -	\$ -	No	\$ - \$ -	
	Other Utilities	LS	1	\$ -	\$ -	No	\$ - \$ -	
	SUBTOTAL - UTILITY RELOCATION COSTS				\$ -		\$ - \$ -	
CONSTRUCTION <i>(Required for Budget)</i>	Contractor Mobilization	LS	1	\$ 64,144.00	\$ 64,144.00	Yes	\$ 60,487.79 \$ 3,656.21	
	HAZMAT Abatement	LS	1	\$ 5,000.00	\$ 5,000.00	Yes	\$ 4,715.00 \$ 285.00	
	Construction Survey and Layout	LS	1	\$ 40,090.00	\$ 40,090.00	Yes	\$ 37,804.87 \$ 2,285.13	
	Temporary Traffic Control	LS	1	\$ 144,324.00	\$ 144,324.00	Yes	\$ 136,097.53 \$ 8,226.47	
	Remove Existing Improvements	LS	1	\$ 5,000.00	\$ 5,000.00	Yes	\$ 4,715.00 \$ 285.00	
	Remove Curb and Gutter	LF	0	\$ -	\$ -	Yes	\$ - \$ -	
	Remove Pavement	SY	300	\$ 3.00	\$ 900.00	Yes	\$ 848.70 \$ 51.30	
	Remove Driveway	SF	4,500	\$ 3.00	\$ 13,500.00	Yes	\$ 12,730.50 \$ 769.50	
	Remove Concrete Sidewalks, Slabs	SF	0	\$ -	\$ -	Yes	\$ - \$ -	
	General Excavation	LS	1	\$ 5,000.00	\$ 5,000.00	Yes	\$ 4,715.00 \$ 285.00	
	Drainage Excavation	LS	1	\$ 10,000.00	\$ 10,000.00	Yes	\$ 9,430.00 \$ 570.00	
	Backfill/Borrow Material	LS	1	\$ 10,000.00	\$ 10,000.00	Yes	\$ 9,430.00 \$ 570.00	
	AC Pavement including ABC Base	SY	10,560	\$ 30.00	\$ 316,800.00	Yes	\$ 298,742.40 \$ 18,057.60	
	Concrete Pavement including ABC Base	SY	0	\$ -	\$ -	Yes	\$ - \$ -	
	AC Mill and Overlay	SY	0	\$ -	\$ -	Yes	\$ - \$ -	
	Curb and Gutter	LF	2,500	\$ 15.00	\$ 37,500.00	Yes	\$ 35,362.50 \$ 2,137.50	
	Aggregate Base	CY	1,800	\$ 40.00	\$ 72,000.00	Yes	\$ 67,896.00 \$ 4,104.00	
	Concrete Driveways	SF	3,000	\$ 8.00	\$ 24,000.00	Yes	\$ 22,632.00 \$ 1,368.00	
	Colored Concrete	SF	0	\$ -	\$ -	Yes	\$ - \$ -	
	Concrete Pavers	SF	0	\$ -	\$ -	Yes	\$ - \$ -	
	Stamped Asphalt	SF	0	\$ -	\$ -	Yes	\$ - \$ -	
	Stamped Concrete	SF	0	\$ -	\$ -	Yes	\$ - \$ -	
	Concrete Sidewalk	SF	12,500	\$ 5.00	\$ 62,500.00	Yes	\$ 58,937.50 \$ 3,562.50	
	Pedestrian ADA Ramps	EA	4	\$ 1,250.00	\$ 5,000.00	Yes	\$ 4,715.00 \$ 285.00	
	Bus Bay	EA	0	\$ -	\$ -	Yes	\$ - \$ -	
	Bus Shelters	EA	0	\$ -	\$ -	Yes	\$ - \$ -	
	Irrigation Pipeline	LF	0	\$ -	\$ -	Yes	\$ - \$ -	
	Irrigation Canal relocation	LF	0	\$ -	\$ -	Yes	\$ - \$ -	
	Irrigation Canal Culvert/Bridge Crossing	EA	0	\$ -	\$ -	Yes	\$ - \$ -	
	Decorative Screen Walls	LF	0	\$ -	\$ -	Yes	\$ - \$ -	
	Retaining Wall	SF	0	\$ -	\$ -	Yes	\$ - \$ -	
	Electrical Service Connection	EA	1	\$ 30,000.00	\$ 30,000.00	Yes	\$ 28,290.00 \$ 1,710.00	
	Joint Trench Conduit, including City Spare	LF	0	\$ -	\$ -	Yes	\$ - \$ -	
	Traffic Signal Intertie	LF	0	\$ -	\$ -	Yes	\$ - \$ -	
	Traffic Signal	EA	0	\$ -	\$ -	Yes	\$ - \$ -	
	Temporary Traffic Signal	EA	0	\$ -	\$ -	Yes	\$ - \$ -	
	Traffic Signage and Markings	LS	1	\$ 15,000.00	\$ 15,000.00	Yes	\$ 14,145.00 \$ 855.00	
	Street Lighting including conduit and trenching	EA	14	\$ 12,000.00	\$ 168,000.00	Yes	\$ 158,424.00 \$ 9,576.00	
	Pedestrian Lighting including conduit and trenching	EA	0	\$ -	\$ -	Yes	\$ - \$ -	
	Handrail	LF	0	\$ -	\$ -	Yes	\$ - \$ -	
	Utility Protection and Adjustments	LS	1	\$ 10,000.00	\$ 10,000.00	Yes	\$ 9,430.00 \$ 570.00	
	Adjust Water Valve	EA	5	\$ 400.00	\$ 2,000.00	Yes	\$ 1,886.00 \$ 114.00	
	Relocate Fire Hydrant	EA	0	\$ -	\$ -	Yes	\$ - \$ -	
	Adjusted Manholes	EA	5	\$ 400.00	\$ 2,000.00	Yes	\$ 1,886.00 \$ 114.00	
	Drainage Catch basins and Scuppers	EA	0	\$ -	\$ -	Yes	\$ - \$ -	
Storm Drain 48"	LF	0	\$ -	\$ -	Yes	\$ - \$ -		
Storm Drain 36"	LF	0	\$ -	\$ -	Yes	\$ - \$ -		
Storm Drain 24"	LF	0	\$ -	\$ -	Yes	\$ - \$ -		
Storm Drain 18"	LF	0	\$ -	\$ -	Yes	\$ - \$ -		
New Waterline 8"	LF	0	\$ -	\$ -	Yes	\$ - \$ -		

**- Southern Avenue from Delaware Drive to Ironwood Dr
MAG PINAL AREA STP PROJECTS COST ESTIMATE WORKSHEET
(Cost Estimates Are Required)**

Instructions		1. Cost estimates from this sheet transfer directly to the budget estimate 2. Please select "Yes" if the item will be programmed in a federally funded work phase						
ITEM DESCRIPTION	UNIT	TOTAL QUAN.	UNIT PRICE	TOTAL COST	PROGRAMMED WITH FEDERAL FUNDS	FEDERAL SHARE	LOCAL SHARE	
New Waterline 12"	LF	0	\$ -	\$ -	Yes	\$ -	\$ -	
New Waterline 16"	LF	0	\$ -	\$ -	Yes	\$ -	\$ -	
New Sanitary Sewer 8"	LF	0	\$ -	\$ -	Yes	\$ -	\$ -	
New Sanitary Sewer 12"	LF	0	\$ -	\$ -	Yes	\$ -	\$ -	
Trees (36" box)	EA	0	\$ -	\$ -	Yes	\$ -	\$ -	
Tree Grates	EA	0	\$ -	\$ -	Yes	\$ -	\$ -	
Trees (24" box)	EA	0	\$ -	\$ -	Yes	\$ -	\$ -	
Shrubs (5 gallon)	EA	0	\$ -	\$ -	Yes	\$ -	\$ -	
Shrubs (1 gallon)	EA	0	\$ -	\$ -	Yes	\$ -	\$ -	
Cactus (5 gallon)	EA	0	\$ -	\$ -	Yes	\$ -	\$ -	
Decomposed Granite	SY	4,200	\$ 3.00	\$ 12,600.00	Yes	\$ 11,881.80	\$ 718.20	
Topsail	SY	0	\$ -	\$ -	Yes	\$ -	\$ -	
Seeding	Acre	0	\$ -	\$ -	Yes	\$ -	\$ -	
Sod	SY	0	\$ -	\$ -	Yes	\$ -	\$ -	
Boulders	EA	0	\$ -	\$ -	Yes	\$ -	\$ -	
Irrigation System - Drip	LS	0	\$ -	\$ -	Yes	\$ -	\$ -	
Irrigation System - Turf	LS	0	\$ -	\$ -	Yes	\$ -	\$ -	
Irrigation Booster Pump	EA	0	\$ -	\$ -	Yes	\$ -	\$ -	
Landscape Header Curb	LF	0	\$ -	\$ -	Yes	\$ -	\$ -	
Landscape Establishment	LS	0	\$ -	\$ -	Yes	\$ -	\$ -	
Benches/Seatwalls	EA	0	\$ -	\$ -	Yes	\$ -	\$ -	
Bike Racks	EA	0	\$ -	\$ -	Yes	\$ -	\$ -	
Trash Receptacles	EA	0	\$ -	\$ -	Yes	\$ -	\$ -	
Drinking Fountains	EA	0	\$ -	\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #1				\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #2				\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #3				\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #4				\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #5				\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #6				\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #7				\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #8				\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #9				\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #10				\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #11				\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #12				\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #13				\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #14				\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #15				\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #16				\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #17				\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #18				\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #19				\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #20				\$ -	Yes	\$ -	\$ -	
SUBTOTAL - CONSTRUCTION COST				\$ 1,055,358.00		\$ 995,202.59	\$ 60,155.41	
CONTINGENCY			10%	\$ 105,535.80	Yes	\$ 99,520.26	\$ 6,015.54	
ADOTCONSTRUCTION			15%	\$ 158,303.70	Yes	\$ 149,280.39	\$ 9,023.31	
SUBTOTAL - CONSTRUCTION COST				\$ 1,319,197.50		\$ 1,244,003.24	\$ 75,194.26	
SUMMARY	PRELIMINARY ENGINEERING			\$ 47,500.00	NA	\$ -	\$ 47,500.00	
	FINAL DESIGN - Stages II, III, IV and PS&E			\$ 145,500.00	NA	\$ -	\$ 145,500.00	
	RIGHT OF WAY ACQUISITION			\$ 3,000.00	NA	\$ -	\$ 3,000.00	
	UTILITY RELOCATIONS			\$ -	NA	\$ -	\$ -	
	CONSTRUCTION (Including ADOT Construction Administration)			\$ 1,319,197.50	NA	\$ 1,244,003.24	\$ 75,194.26	
	SUBTOTAL - PROJECT COST			\$ 1,515,197.50	NA	\$ 1,244,003.24	\$ 271,194.26	
	ADOT REVIEW FEES (\$10,000 for Certification Accepted agencies, \$30,000 for all other agencies)			\$ 30,000.00	No	\$ -	\$ 30,000.00	
	PROJECT TOALS (Including ADOT Review Fees)			\$ 1,545,197.50	NA	\$ 1,244,003.24	\$ 301,194.26	

- Southern Avenue from Delaware Drive to Ironwood Dr Budget and Signature							
Instructions							
1. This sheet is required for all projects 2. All work phases regardless of funding source must be included in the proposed programming. 3. The signature part of this page must be signed with the printed application sent to MAG							
1. Project Budget	Preliminary Engineering and Final Design	193,000	Design in fiscal year 2018				
	Right of way	3,000	100% Local Funded				
	Utilities	-					
	Construction	1,319,198	Construction in fiscal year 2020, includes 10% construction contingency				
	Total Cost w/o ADOT Review Fee	1,515,198					
	ADOT Review Fee	45,456	Assumes the ADOT design fee is 3 percent of project cost or \$30,0000, which ever is the higher amount.				
	Total Cost	1,560,653					
2. Agency CIP	Please describe the agency programming in its CIP Funding for this project will be using HURF.						
3. Proposed Programming	Work Phase	Year to be Programmed/1	Funding Source	Federal Amount/2	Local Amount	Total	Local Share/3
	Rightof way	2016	None	-	3,000	3,000	100%
	PE/Design	2018	STP-MAG	181,999	11,001	193,000	5.7%
	Construction	2020	STP-MAG	1,244,003	75,195	1,319,198	6%
	ADOT Review Fee	2020	STP-MAG	42,865	2591	45,456	6%
	None	None	None	-	-	-	0%
	Total			1,468,867	91,787	1,560,654	
	Notes:	1. Federal funds are available only for 2018 and 2020		2. In 2018, \$350,000 is available; In 2020, \$1,270,000 is available.		3. The minimum local share is 5.7%	

Signature: To be signed with printed hard copy that is sent to MAG
As the jurisdiction's manager/administrator or designated representative, I certify that the information contained in this application is accurate and complete and that the local funds for this project will be included in the sponsoring MAG member agency's local current CIP/TIP or budget document if the project is selected for federal funding.
Signature:
Name:
Title:
Date:

- Southern Avenue from Delaware Drive to Ironwood Dr Checklist (Optional)		
Instructions	1. This page must be submitted with the printed copy of the application 2. It must be signed by the jurisdiction's manager/administer or designated representative 3. The checklist at the bottom of the sheet is optional	
Category	Data Item	Item Enter (Yes/No)
Project Page		
1. Project Sponsorship	Project Sponsor Name	Yes
	Other Participating Agencies	No
2. Project Location	Identify the Project Location (50 Char Limit)	Yes
	Attach a map depicting the project.	Yes
	Attach a vicinity map of the project	Yes
3. Project Work Description	Provide a short work description (50 char limit)	Yes
	Overview - please describe the work to be performed, its benefits and costs	Yes
4. Proximity to the Nearest Employment and Commercial Center	Employment Center	
	Name of Nearest Employment Center	Yes
	Approximate Number of Employees at the center	Yes
	Distance to the project	Yes
	Commercial Center	
	Name of Nearest Commercial Center	
	Approximate Square Footage of the Commercial Center	
5. Regional Connectivity	Connectivity	Yes
	If the check box above is checked, briefly discuss how the project improves regional/multijurisdictional connectivity.	Yes
6. Agency Plans	Included in Agency Plans	Yes
	If the check box above is checked, briefly discuss jurisdiction General/Transportation Plan and the role of the project in the plan.	Yes
7. Community Involvement	Is the project a community request	Yes
Roadway Page(s) - Check all roadway pages submitted for funding		
1. Roadway Location	Roadway Name	Yes
	Starting Limit	Yes
	Ending Limit	Yes
	Length (to nearest 10th of a mile)	Yes
2. Federal Functional Classification	Please select the federal functional classification of the roadway	Yes
3. Current Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved.	Yes
	Attach a photo(s) of the current roadway	Yes
	Number of Through Lanes (Both directions)	Yes
4. Bridge Condition (Required only for bridge projects)	Bridge Sufficiency Rating (from ADOT NBI Table)	No
	Bridge Status (from ADOT NBI Table)	No
5. Pavement Condition	Pavement Type	Yes
	Pavement Rating	Yes
	Name or Description of Rating System Used - e.g. PCI, PSR, etc..	Yes
	Rating system scale - please describe the scale used in the rating system - e.g. it ranges from 1 to 100 with 100 being the best condition.	Yes
	Date of Rating	Yes
	Rating	Yes
6. Traffic	Traffic Count	
	Please describe how the count was collected	Yes
	Date of Count	Yes
	AADT	Yes
	K-Factor - Percent of traffic in the peak hour	Yes
	D-Factor - Percent of design hour volume flowing in the peak hour direction	Yes
	Number of lanes in the Peak Hour Direction	Yes
	Posted Speed Limit (mph)	Yes
	Peak Hour Speed (mph)	Yes
7. Safety	Number of crashes in last 3 years by crash type.	
	Number of fatality crashes	Yes
	Number of incapacitating crashes	Yes
	Number of non incapacitating crashes	Yes
	Number of possible injury crashes	Yes
	Number of property damage only crashes	Yes
8. Multimodal	Multimodal characteristics (check all that apply)	Yes
9. Proposed Functional Classification	Please select the federal functional classification of the roadway	Yes
10. Proposed Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved.	Yes
	Number of Through Lanes on the improved roadway (Both directions)	Yes
11. Access Control Improvements	Please describe access control issues and proposed improvements	Yes
12. Alignment Improvements	Describe horizontal alignment issues and proposed improvements	Yes

- Southern Avenue from Delaware Drive to Ironwood Dr Checklist (Optional)		
	Describe vertical alignment and proposed improvements	Yes
13. Drainage Improvements	Describe drainage issues and proposed improvements	Yes
14. Bridge improvements (Required for bridge projects only)	Describe Bridge issues and proposed Improvements	No
15. Pavement Improvements	Proposed Pavement Type	Yes
	Describe the current condition of the pavement and proposed improvements	Yes
16. Traffic Improvements	Describe traffic issues and proposed Improvements	Yes
17. Safety Improvements	Describe safety issues and proposed Improvements	Yes
18. Multimodal Improvements	Describe multimodal issues and proposed Improvements	Yes
19. Environmental	Please describe environmental impacts or challenges of the project - .e.g. endanger species, cultural assets, hazardous materials sites, 4Fs, Title VI populations, wet lands that would be affected by the project.	Yes
20. Right-of-way	Please describe right-of-way issues - e.g. whether right-of-way will be required, how much right-of-way will be required, if right-of-way is needed are actors such as the State Lands Department be involved, etc.	Yes
21. Development Activity	Please describe planned and ongoing development activity that could impact the proposed project	Yes
22. Utilities	Please describe utilities that could impact the proposed project	Yes
Intersection Page(s) - Check all intersection pages submitted for funding		
1. Intersection Location	Roadway Name A	No
	Roadway Name B	No
2. Federal Functional Classification	Federal Functional Classification of Roadway A	No
	Federal Functional Classification of Roadway B	No
4. Current Intersection Configuration	Attach an intersection diagram	No
	Attach a photo(s) of the current intersection	No
	Number of through lanes	
	Roadway A	No
	Roadway B	No
5. Pavement Condition	Pavement Type	No
	Pavement Rating	No
	Name or Description of Rating System Used - e.g. PCI, PSR, etc..	No
	Rating system scale - please describe the scale used in the rating system - e.g. it ranges from 1 to 100 with 100 being the best condition.	No
	Date of Rating	No
	Rating	No
6. Traffic	Traffic Volume in the Peak Hour by approach	
	Approach 1 traffic volume	No
	Approach 2 traffic volume	No
	Approach 3 traffic volume	No
	Approach 4 traffic volume	No
7. Safety	Number of crashes in last 3 years by crash type.	
	Number of fatality crashes	No
	Number of incapacitating crashes	No
	Number of non incapacitating crashes	No
	Number of possible injury crashes	No
	Number of property damage only crashes	No
8. Multimodal	Multimodal characteristics (check all that apply)	No
9. Federal Functional Classification	Federal Functional Classification of Roadway A	No
	Federal Functional Classification of Roadway B	No
10. Proposed Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved.	No
11. Access Control Improvements	Please describe access control issues and proposed improvements	No
12. Pavement Improvements	Proposed Pavement Type	No
	Describe pavement issues and proposed Improvements	No
13. Traffic Improvements	Traffic Congestion	No
	Describe traffic issues and proposed Improvements	No
14. Safety Improvements	Safety Impacts	No
	Describe safety issues and proposed Improvements	No
15. Multimodal Improvements	Describe multimodal issues and proposed Improvements	No
16. Environmental	Please describe environmental impacts or challenges of the project - .e.g. endanger species, cultural assets, hazardous materials sites that would be affected by the project.	No
17. Right-of-way	Please describe right-of-way issues - e.g. whether right-of-way will be required, actors such as the State Lands Department will be involved, etc.	No
18. Development Activity	Please describe planned and ongoing development activity that could impact the proposed project	No
19. Utilities	Please describe utilities that could impact the proposed project	No
Cost estimate Work Sheet		
	Preliminary Engineering Cost Estimate entered	Yes
	Final Design Cost Estimate entered	Yes
	ROW Cost Estimate entered (This may be zero if there is now ROW to be acquired)	Yes
	Utilities Cost Estimate entered (This may be zero if there is now Utilities)	Yes
	Construction Cost Estimate entered	Yes

- Southern Avenue from Delaware Drive to Ironwood Dr Checklist (Optional)		
Budget Page		
2. Agency CIP	Please describe the agency programming in its CIP	Yes
3. Proposed Programming	Work Phase	Yes
	Year to be Programmed	Yes
	Funding Source	Yes
	Federal Amount	Yes
	Local Amount	Yes
	Work Phase	Yes
	Year to be Programmed	Yes
	Funding Source	Yes
	Federal Amount	Yes
	Local Amount	Yes
	Work Phase	Yes
	Year to be Programmed	Yes
	Funding Source	Yes
	Federal Amount	Yes
	Local Amount	Yes
	Work Phase	No
Year to be Programmed	No	
Funding Source	No	
Federal Amount	No	
Local Amount	No	
Signature Area	Signature	Yes
	Name	Yes
	Title	Yes
	Date	Yes

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
2. Charges to agencies will be based on work performed by ADOT. Costs accrued will vary depending on project characteristics and

