

Pinal County Surface Transportation Program Project Programming

Transportation Review Committee – April 23, 2015
Agenda Item #8

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Pinal County Surface Transportation Program

- The Pinal County Surface Transportation Program (PC-STP) Programming and Evaluation Policy was approved by the MAG Regional Council on February 25, 2015
- An estimated \$5.7 million in funding is available for projects between Fiscal Year 2017 and 2019
 - Includes the un-programmed carry-forward from Fiscal Year 2014 through 2016

Available Federal Funds

4/1/2014	Pinal County Non Lifecycle STP Sub-Allocation \$5.7 million				
FFY	Non Lifecycle STP (Pinal County Members) With OA Applied	Project Authorizations	Loans out	Loans In	Balance For Programming
2014	\$ 1,213,265	-	(1,213,265)	-	-
2015	\$ 1,213,265	(1,610,000)		396,735	-
2016	1,213,265		(1,213,265)		-
2017	1,213,265			816,530	2,029,795
2018	1,213,265			1,213,265	2,426,530
2019	1,241,170				1,241,170
2020	1,265,993				1,265,993
Estimated					

Pinal County Surface Transportation Program: Goals and Objectives

- The program is based on six goals and objectives:
 1. Expand capacity on existing roadways or intersections of high demand
 2. Maintain and preserve the region's transportation system
 3. Address safety concerns in the existing roadway/intersection conditions
 4. Promote connectivity between high demand/capacity roadways and activity centers to advance economic viability
 5. Maintain consistency with stated jurisdictional policy
 6. Achieve a significant reduction in congestion on the region's transportation system.

EVALUATION TOOL FOR STP FUNDED PROJECTS IN PINAL COUNTY	
Goals and Objectives	
A	Expand capacity on existing roadways or intersections of high demand.
B	Maintain and preserve the region's transportation system
C	Address safety concerns in existing roadway/intersection conditions.
D	Promote connectivity between high demand/capacity roadways and activity centers to advance economic viability.
E	Consistency with stated jurisdictional policy
F	Achieve a significant reduction in congestion on the region's transportation system

Pinal County Surface Transportation Program: Measures and Evaluative Weights

Quantitative:

1. AADT – 13%
2. Pavement/Bridge Condition – 13%
3. Peak Period Speed Differential – 13%
4. VPLPH – 13%
5. Crash Rate by VMT – 9%
6. Number of Injuries/Fatalities – 9%

Qualitative:

1. Connectivity (Regional) – 5%
2. Proximity to Activity Centers – 5%
3. Intersection Improvement
Throughput – 5%
4. Intersection Improvement Safety
– 5%
5. Jurisdictional Policy – 5%
6. Community Involvement – 5%

EVALUATION TOOL FOR STP FUNDED PROJECTS IN PINAL COUNTY

7 Assign Weights

CRITERIA #	QUANTITATIVE CRITERIA	Assign Weights
1	ANNUAL AVERAGE DAILY TRAFFIC (AADT)	13%
2	PAVEMENT / BRIDGE CONDITION (0-5 SCALE)	13%
3	PEAK PERIOD SPEED DIFFERENTIAL	13%
4	SEGMENT / INTERSECTION CAPACITY, TRIPSECS PER LONG PERIOD OF TRIP	13%
5	CRASH RATE BY VEHICLE MILES TRAVELED	9%
6	NUMBER OF INJURIES / FATALITIES (3-YEAR BASELINE)	9%

CRITERIA #	QUALITATIVE CRITERIA	Assign Weights
1	CONNECTIVITY - REGIONAL	5%
2	PROXIMITY - ACTIVITY CENTERS	5%
3	INTERSECTION IMPROVEMENT - THROUGHPUT	5%
4	INTERSECTION IMPROVEMENT - SAFETY	5%
5	JURISDICTIONAL POLICY	5%
6	COMMUNITY INVOLVEMENT	5%

100% Total Weight Must Equal 100%



Pinal County Surface Transportation Program: Call for Projects

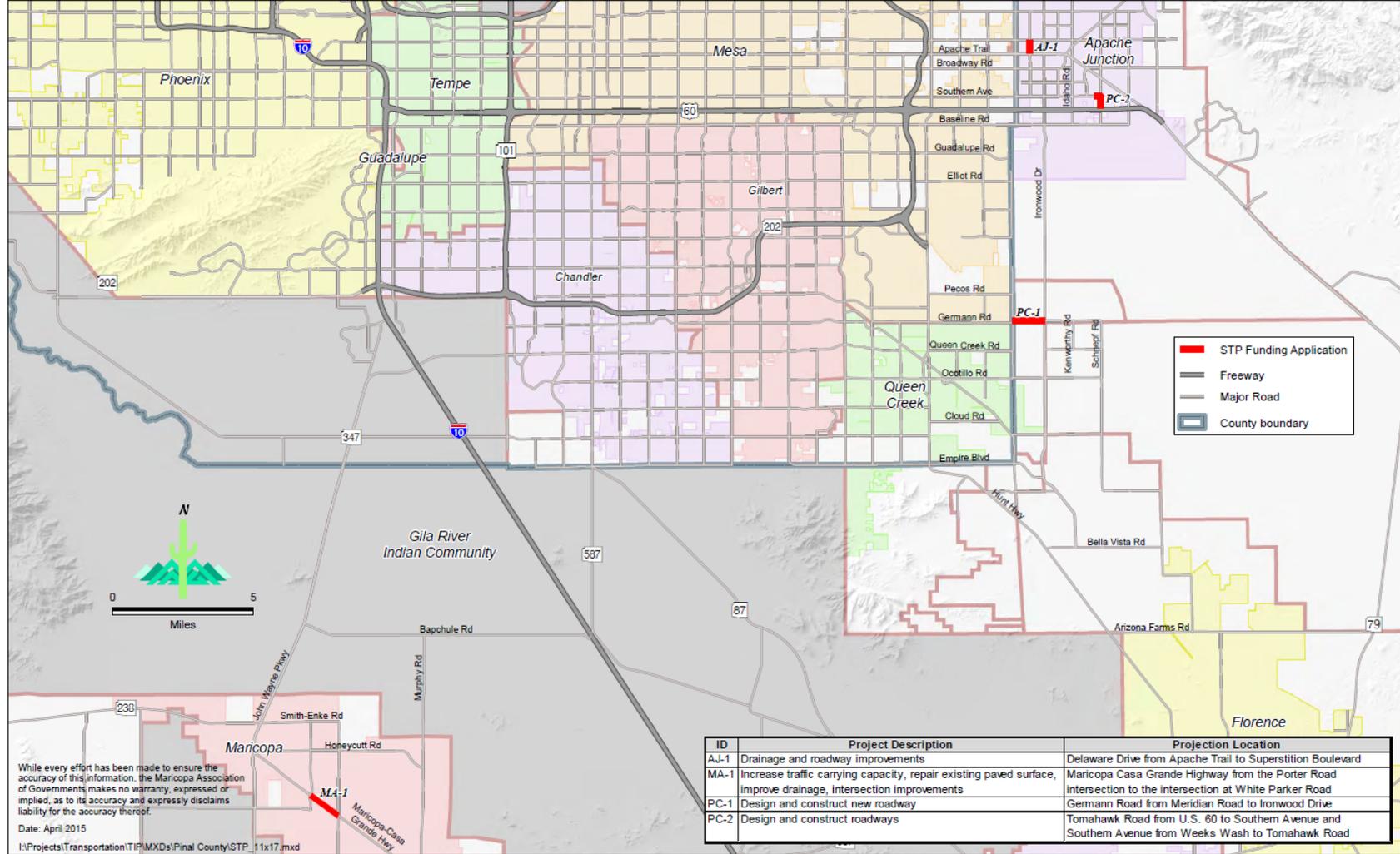
- On February 27, 2015 MAG Issued a Call for Projects with a due date of April 6, 2015
- Four applications totaling \$7.9 million in FF requests were received from 3 agencies. PC withdrew Tomahawk Rd (4-17-15).
- Per the PC-STP Programming and Evaluation Policy, the MAG Street Committee is responsible for evaluating project applications

“The Streets Committee will assess the application and data provided to determine its reasonableness and accuracy relative to the evaluation criteria.”

Pinal County Surface Transportation Program – Call for Projects Evaluation Reference Sheet

Criteria		Delaware Drive: Apache Trail to Superstition Blvd	MCG Highway: Porter Road to White & Parker	Germann Road: Meridian Rd to Ironwood Drive	Tomahawk Rd: US60 to Southern Ave & Southern Ave: Weeks Wash to Tomahawk Rd
Overview	Type of Work	Drainage and Roadway Improvements	Capacity Expansion/ Roadway Improvements	Design and construct new roadway	Design and construct roadways
	Segment Length	0.5 Miles	1.6 Miles	1.2 Miles	0.8 Miles
	Lanes Before	2	2	0	3
	Lanes After	2	4	2	4
Annual Average Daily Traffic (AADT)		4,445	10,046	20,140	3,772
Pavement/Bridge Condition (1-5 Scale)		4	2.5	--	2
Peak Period Speed Differential		1.333	0.800	1.222	1.286
Segment/Intersection Capacity (VPLPH)		1,878	99	7,494	797
Crash Rate per 100 million Vehicle-Miles of Travel		2,917	8,449	8,631	9,886
Number of Injuries/Fatalities (3-year average)		0	0.333	2.00	0
Does this project improve regional/multijurisdictional connectivity?		Yes	Yes	Yes	Yes
Distance from the nearest commercial/employment center		< 1 Mile	< 2 Miles	< 1 Mile	< 1 Mile
Does this project involve improvements that address throughput on an existing intersection?		Yes	Yes	Yes	Yes
Does this project involve improvements that address safety on an existing intersection?		Yes	Yes	Yes	Yes
Is this project identified in the jurisdiction General/Transportation Plan?		Yes	Yes	Yes	No
Has this project been requested through a neighborhood or community meeting or by council/board/commission outside of the budget process?		No	No	Yes	No

Pinal Area Surface Transportation Program (STP) Funding Applications 2015



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Date: April 2015

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ID	Project Description	Projection Location
AJ-1	Drainage and roadway improvements	Delaware Drive from Apache Trail to Superstition Boulevard
MA-1	Increase traffic carrying capacity, repair existing paved surface, improve drainage, intersection improvements	Maricopa Casa Grande Highway from the Porter Road intersection to the intersection at White Parker Road
PC-1	Design and construct new roadway	Germann Road from Meridian Road to Ironwood Drive
PC-2	Design and construct roadways	Tomahawk Road from U.S. 60 to Southern Avenue and Southern Avenue from Weeks Wash to Tomahawk Road

Call For Projects: PC-STP 2015

Date Issued: 2/27/2015

Date Due: 4/6/2015

Applications Received: 4

1 withdrawn on 4-17-2015

Total Amount of Requests: \$ 7,906,284

Requests are higher than funding available.

Year	Per Year Federal Funding*	FF with Loans	Total FF Available
2017	1,213,265	2,029,795	
2018	1,213,265	2,426,530	
2019	1,241,170	1,241,170	\$ 5,697,495



4/17/2015

*Federal Funding (FF) is projected and subject to change.

Projects listed alphabetically by Agency name.

Requests for Federal Aid Funding Proposed Programming Tomahawk Withdrawn

Agency	Request Year	Application ID	Evaluation Tool Result	Location	Work	Miles	Lanes Before	Lanes After	Funding Year Awarded	MAG Mode	Funding	Federal	Regional	Local	Total	Notes
Pinal County	2017	PC1	2.74	Germann Road from Meridian Road to Ironwood Drive.	Design: New 28-foot wide roadway segment, and make drainage and roadway improvements on existing segment.	1.17	0+0,2+2	2+2	2017	Street	STP-MAG	\$ 230,258	\$ -	\$ 13,918	\$ 244,176	
Pinal County	2019	PC1	2.74	Germann Road from Meridian Road to Ironwood Drive.	Construct: New 28-foot wide roadway segment, and make drainage and roadway improvements on existing segment.	1.17	0+0,2+2	2+2	2019	Street	STP-MAG	\$ 1,630,000	\$ -	\$ 98,530	\$ 1,728,530	
City of Maricopa	2016	MAR1	2.49	Maricopa Casa Grande Highway from the Porter Road intersection to the intersection at White Parker Road.	Design: Roadway, drainage facilities, and signal improvements including the addition of two through lanes and mill and overlay of the chip seal portion on segment portions.	1.2	1+1	2+2	2012	Street	(CAG Awarded) STP-MAG	\$ 512,000	0 \$	\$ 31,000	\$ 543,000	This project has been previously been awarded with \$543,000 of federal funds through the Central Arizona Association of Governments. The City of Maricopa Entered an intergovernmental Agreement (IGA/JPA 12-065-1) with the Arizona Department of Transportation on December 4, 2012. The project is identified by TRACS # SSS311-
City of Maricopa	2016	MAR1	2.49	Maricopa Casa Grande Highway from the Porter Road intersection to the intersection at White Parker Road.	ROW: Roadway, drainage facilities, and signal improvements including the addition of two through lanes and mill and overlay of the chip seal portion on segment portions.	1.2	1+1	2+2	-	Street	Local	\$ -	0 \$	\$ 385,945	\$ 385,945	
City of Maricopa	2017	MAR1	2.49	Maricopa Casa Grande Highway from the Porter Road intersection to the intersection at White Parker Road.	Construct: Roadway, drainage facilities, and signal improvements including the addition of two through lanes and mill and overlay of the chip seal portion on segment portions.	1.2	1+1	2+2	2017	Street	(CAG Awarded) STP-MAG	\$ 31,000	0 \$	\$ 1,875	\$ 32,875	This project has been previously been awarded with \$543,000 of federal funds through the Central Arizona Association of Governments. The City of Maricopa Entered an intergovernmental Agreement (IGA/JPA 12-065-1) with the Arizona Department of Transportation on December 4, 2012. The project is identified by TRACS # SSS311-
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Pinal County	2017	PC2	1.97	Tomahawk Road from U.S. 60 to Southern Avenue and Southern Avenue from Weeks Wash to Tomahawk Road.	Design: Extend the existing minor arterial roadway sections with bike lanes on both sides of the roadways and sidewalks on one side.	0.84	0+0,2+2	2bp+2b	-	Street	STP-MAG	\$ -	\$ -	\$ 18,750	\$ 38,955	Requested \$310,205 of federal funds. Agency has requested to drop project.
Pinal County	2019	PC2	1.97	Tomahawk Road from U.S. 60 to Southern Avenue and Southern Avenue from Weeks Wash to Tomahawk Road.	Construct: Extend the existing minor arterial roadway sections with bike lanes on both sides of the roadways and sidewalks on one side.	0.84	0+0,2+2	2bp+2b	-	Street	STP-MAG	\$ -	\$ -	\$ 2,327,038	\$ 2,327,038	Requested \$2,194,397 of federal funds. Agency has requested to drop project.
Apache Junction	2016	AJ1	1.36	Delaware Drive from Apache Trail to Superstition Boulevard	ROW: Drainage and Roadway Improvements, add bike and ped.	0.5	1+1	1bp+1bp	-	Street	Local	\$ -	\$ -	\$ 1,500	\$ 1,500	
Apache Junction	2018	AJ1	1.36	Delaware Drive from Apache Trail to Superstition Boulevard	Construct: Drainage and Roadway Improvements, add bike and ped.	0.5	1+1	1bp+1bp	2018	Street	STP-MAG	\$ 1,484,784	\$ -	\$ 89,748	\$ 1,574,532	Requested \$1,484,784 of federal funds.
Apache Junction	2015-16	AJ1	1.36	Delaware Drive from Apache Trail to Superstition Boulevard	Design: Drainage and Roadway Improvements, add bike and ped.	0.5	1+1	1bp+1bp	2016	Street	STP-MAG	\$ 56,580	\$ -	\$ 3,420	\$ 60,000	Requested \$56,580 of federal funds.
									this issue Fed Totals			\$ 5,401,682	\$ -	\$ 3,794,037	\$ 10,048,924	

Summary of Federal Funding

Call For Projects Tally Sheet

~Revised~ 4/20/2015

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Federal Funding Requested by Evaluation Order and Tomahawk Withdrawn

Evaluation To	Location	Requested Work Year				Grand Total
		2017	2018	2019	2015-16	
2.74	Germann Road from Meridian Road to Ironwood Drive.	230,258		1,630,060		1,860,318
2.49	Maricopa Casa Grande Highway from the Porter Road intersection to the intersection at White Parker Road.	2,000,000				2,000,000
1.97	Tomahawk Road from U.S. 60 to Southern Avenue and Southern Avenue from Weeks Wash to Tomahawk Road.	-		-		-
1.36	Delaware Drive from Apache Trail to Superstition Boulevard		1,484,784		56,580	1,541,364
Grand Total		\$ 2,230,258	\$ 1,484,784	\$ 1,630,060	\$ 56,580	\$ 5,401,682

Federal Aid Funding 2017-2019

\$ 5,697,495

Balance to be rolled to FY2020 for next Call For Projects*

\$ 295,813

* Current estimated Federal Funding

Recommended Action:

- Recommend approval of the Pinal County Surface Transportation Program (PC-STP) Projects priority order and to be added to the FY 2014-2018 MAG Transportation Improvement Program and 2035 Regional Transportation Plan, contingent on a finding of air quality conformity.