



Call for Projects, Development of the FY2017-2021 TIP

Workshop

August 19, 2015

Teri Kennedy, Steve Tate, Jason Hafner

Today's Agenda

1. General Information & Schedule
2. MAP-21
3. Funding
 - a) Congestion Mitigation and Air Quality Improvement Program
 - b) Transportation Alternatives Program
 - c) Surface Transportation Program – Pinal County
4. Applications and Eligibility
5. Programming Principles
6. ADOT Local Governments Project Development Process
7. Breakout Sessions

Staff Available

MAG Staff

- ❖ Alex Oreschak
- ❖ Dean Giles
- ❖ Margaret Boone
- ❖ Monique de los Rios-Urban
- ❖ Sarath Joshua
- ❖ Steve Tate
- ❖ Teri Kennedy

ADOT

- ❖ Jason Hafner

❖ All Information, Applications & Schedule

<http://www.azmag.gov/Transportation/ModalApplications.asp>



Member Agencies
Regional Council
Committees
Projects

Transportation
Environmental Programs
Human Services
Information Services

Administrative
Communications
Information
Fiscal Services

FY2017-2021 TIP Modal Applications

IN THIS SECTION

Location: Home >> Transportation >> ModalApplications

- Regional Transportation Plan (RTP)
- Transportation Improvement Program (TIP)
- Arterial Life Cycle Program (ALCP)
- Traffic Data, Forecasts and Modeling
- Regional Transportation Plan Freeway Completed Project

August, 2015

The Maricopa Association of Governments (MAG) is pleased to announce a call for projects to be funded with Federal Highway Administration sub-allocated Congestion Mitigation and Air Quality Improvement Program (CMAQ), PM-2.5 Congestion Mitigation and Air Quality Improvement Program (CMAQ-2.5), Transportation Alternatives Program (TAP-

Competitive FHWA Federal Fund Programming Process FY 2016, and Draft FY2017-2021 TIP Development

2015

August	10	<ul style="list-style-type: none"> FHWA Federal Fund Project Applications available for CMAQ PM-10 Paving Unpaved Road Projects, CMAQ PM-2.5 Paving Unpaved Road Projects, CMAQ Bicycle-Pedestrian Projects, and Transportation Alternative Projects Infrastructure for FY2018, 19, & 20. CMAQ Intelligent Transportation Systems in FY 2018 and 2019. Surface Transportation Program for Pinal County in FY2020, FY 2017 Transportation Alternatives NonInfrastructure FY 2017, and PM-10 Certified Street Sweepers for FY2016.
	10	Early Phase Public Involvement Mailing.
	19	<ul style="list-style-type: none"> Workshop on FHWA Applications, 10:00 - 11:30 A.M. - Saguaro Room, 2nd Floor MAG. Breakout sessions, various rooms.
	24	<ul style="list-style-type: none"> 8:30 - 10:00 a.m., MAG Chaparral Room, Open Working Group - Federal Fund Project Applications
September	4	Early Phase Public Involvement Comments DUE.
	14	<ul style="list-style-type: none"> 9:00 - 11:00 a.m., MAG Chaparral Room, Open Working Group - Federal Fund Project Applications
	9	Management Committee reviews submitted project comments from early phase notification.
	21	<ul style="list-style-type: none"> Monday, September 21st: 10:00 A.M. - Due Date and Time, signed Project Applications due to MAG. <u>Late Applications will not be accepted.</u>
	23	Applications posted to Website
October	7	ITS Committee reviews Federal Fund Applications, First Review
	13	Street Committee reviews Federal Fund Applications, First Review
	20	Bike Ped Committee reviews Federal Fund Applications, First Review
	22	AQ TAC Reviews and recommends AQ Score for ITS, BP, and Paving Projects, and Ranking of PM-10 Street Sweepers.



Competitive FHWA Federal Fund Programming Process FY 2016, and Draft FY2017-2021 TIP Development

2015

November	2-30	TIP Data Entry System Available, Collect and Submit Regionally Significant Project information for inclusion in TIP.
	4	ITS Committee Second Review of Federal Fund Applications, CMAQ Evaluations Available, Presentations.
	10	Street Committee Second Review of Federal Fund Applications, CMAQ Evaluations Available, Presentations.
	17	Bike Ped Committee Second Review of Federal Fund Applications, CMAQ Evaluations Available, Presentations.
	17	Transportation Safety Committee Review of Federal Fund Applications for Transportation Alternatives Program, Safe Routes to School eligible activities, Presentations..
December	2-30	Continue to Collect, and Submit Regionally Significant Project information for inclusion in TIP.
	3	AQ TAC: <i>Alternate day for review of AQ Scores for Paving UnPaved Roads and PM-10 Street Sweepers; only if needed.</i>
	8	Street Committee
	10	TRC Mail out DUE
	17	TRC reviews Federal Fund Priority Listing of Projects and TIP listings

2016

January	2-29	Continue to Collect, and Submit Regionally Significant Project information for inclusion in TIP.
	13	Management Committee reviews Federal Fund Priority Listing of Projects and TIP listings.*
	20	TPC reviews TIP Listings for Federal Fund projects.*
	27	RC reviews/approves Federal Fund Priority Listing of Projects.* **



<http://www.fhwa.dot.gov/map21/summaryinfo.cfm>

- July 6, 2012, President Obama signed into law P.L. 112-141, the Moving Ahead for Progress in the 21st Century Act (MAP-21).
- MAP-21 restructures core highway formula programs.
- Although MAP-21 achieves dramatic policy and programmatic changes, reform of the way highway programs are funded remains a challenge for the future.*



- Congestion Mitigation And Air Quality Improvement Program (CMAQ)
- Surface Transportation Program (STP)
- Transportation Alternatives Program (TAP).*
- Match requirements are: 5.7% local, with 94.3% federal. MAG typically awards for construction.

*MAG programs:

Transportation Alternatives Infrastructure, Safe Routes to School Eligible activities for Non-Infrastructure
FHWA: <http://www.fhwa.dot.gov/federalaid/projects.cfm>

- Provides funds to States for transportation projects **designed to improve air quality and reduce traffic congestion**, particularly in areas of the country that do not attain national air quality standards.
- The RTP provides a balanced distribution of funding for each eligible mode
- Projects that use CMAQ funding include Bicycle-Pedestrian, PM-10 Paving, PM-10 Street Sweepers, PM-2.5 Paving, and Intelligent Transportation Systems

Transportation Alternatives MAG Regional Goals:

1. Improve pedestrian and bicyclist accessibility and connectivity on the transportation network.
 2. Assist in providing a safe environment for the bicyclists and pedestrians on both the on-street and the off-street transportation networks.
 3. Make bicycling and walking to K-8 schools a safer and more desirable transportation alternative to motorized vehicles.
- Projects that use TAP funding include Bicycle-Pedestrian-Trails infrastructure projects, Safe Routes to School Eligible Activities such as non-infrastructure and safety planning.

MAG Regional Goals for Pinal County STP:

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.
- Projects that use STP funding in Pinal County include arterial roadway expansion-improvement, and bridges.

Project Types:

- **PM-10 Certified Street Sweepers** in FY 2016 - \$1.08 million federal CMAQ funds
- **PM-10 Paving Unpaved Road** projects in FYs 2018, 2019, 2020 - \$4.00 million each year in federal CMAQ funds
- **PM-2.5 Paving Unpaved Road** projects in FYs 2018, 2019, 2020 - \$669,668 each year in federal CMAQ-2.5 funds



Project Types:

- Arterial **Intelligent Transportation Systems** projects in FYs 2018 and 2019- \$3.68 million each year in federal CMAQ funds
- **Arterial and Bridge projects** limited to the MAG planning area within Pinal County, in FY 2018 - \$352,393, and in FY 2020 - \$ 1.27 million in federal STP funds (Design and Construction)



Project Types:

- **Bicycle and Pedestrian** projects in FYs 2018, 2019, 2020 - \$7.8 million each year in federal CMAQ funds
- **Bicycle and Pedestrian** projects in FYs 2018, 2019, 2020 - \$4.20 million each year in federal TAP-MAG funds
- Safety (**Safe Routes to School eligible activities**) **SRTS Study projects** in FY 2017 - \$408,057 in federal TAP-MAG funds
- Safety (**Safe Routes to School eligible activities**) **Support Activity projects** in FY 2017 - \$100,000 in federal TAP-MAG funds. (Procure/install)



Call For Projects Amounts¹

Programming Levels By Mode and MAG Program, in Millions of \$								
STP - with OA applied		CMAQ with OA applied				Specific Programs with OA applied		
Year	Non Lifecycle ⁵	ITS ³	Bicycle/Ped	Air Quality PM-10 Paving of UnPaved Roads	PM-10 Street Sweepers	CMAQ 2.5	Transportation Alternatives Urban & NU, Non-Infrastructure (SRTS)	Transportation Alternatives Urban & NU, Infrastructure
2016					1.08			
2017							0.51	
2018	0.35	3.68	7.68	4.00		0.65		4.09
2019	0.00	3.68	7.90	4.00		0.67		4.22
2020	1.27	0.00	8.06	4.00		0.67		4.31
Totals 16-20	\$1.62	\$7.36	\$23.64	\$12.00	\$1.08	\$1.99	\$0.51	\$12.63

¹ Growth rate is estimated and was included in the 2035 RTP approved funding projections. Amounts may include loans, program admin, and repayments.

³ MAG ITS Program completes in 2018, and 2019. Take down of \$7,358,000 completes the \$50 million program.

⁵ Loan Repayment from Arterial to Non-Lifecycle

CMAQ eligible project area for each program has limitations

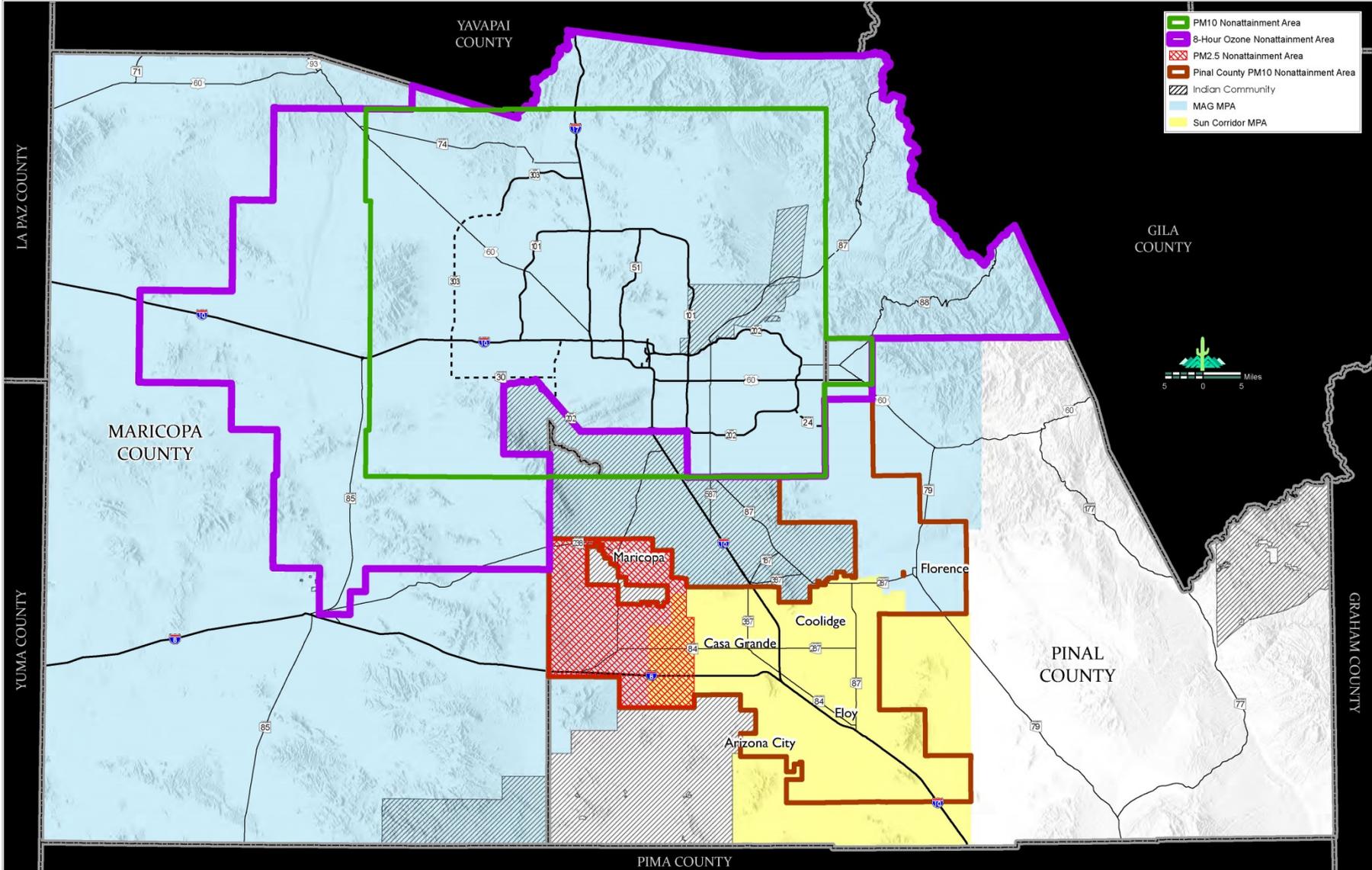
- PM-10 Street Sweepers and PM-10 Paving of Unpaved Roads: Any non-attainment/maintenance area in the MAG planning region.
- PM-2.5: Anywhere in the PM-2.5 non-attainment area in Pinal County, and applicant must be a member of MAG.

Surface Transportation Program Pinal County limitations: Arterials and Bridges

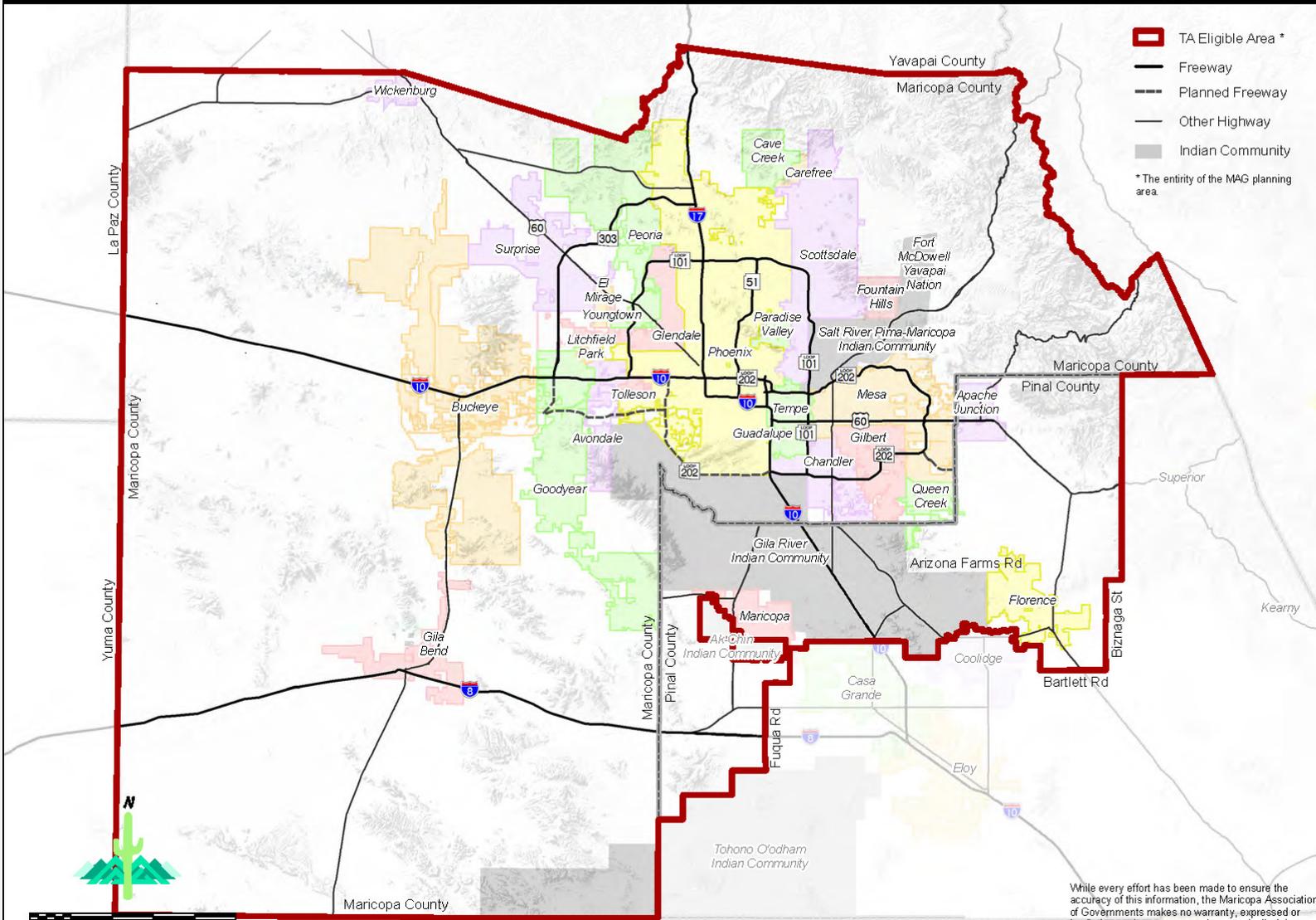
- Must be in the MAG planning region and,
- Must be in Pinal County.

TAP eligible project area for each program: Infrastructure and Non-infrastructure

- Anywhere in the MAG planning region.



TA Bicycle/Pedestrian Application Area



- TA Eligible Area *
 - Freeway
 - Planned Freeway
 - Other Highway
 - Indian Community
- * The entirety of the MAG planning area

While every effort has been made to ensure the accuracy of this information, the Maricopa Association of Governments makes no warranty, expressed or implied, as to its accuracy and expressly disclaims liability for the accuracy thereof.

- MAG Staff will insure that **applications received are complete**. Basic eligibility review completed and then **posted to website**.
- Applicants will receive a receipt that their applications was received and was complete or incomplete.
- Modal Committee will **review applications prior to the first meeting**.
- At the modal committee meeting, **each applicant will present their project(s)** with a pre-generated powerpoint that is composed of photos and graphics from their application. Each applicant will have not more than 10 minutes with a 10 minute Q and A by the committee.
 - *No individual presentations will be provided for Street Sweepers. However questions by committee may be made to the applicant.*

For each applicant, the committee will determine the following:

- **Project definitional adequacy.** The committee will determine that the project is defined in sufficient detail to allow technical review.
- **Project feasibility.** The committee will determine that the project is free from fatal flaws (e.g. major utilities and drainage issues) that would prevent it from being implemented.
- **Schedule adequacy.** The committee will determine that the schedule laid out for the project, including locally funded work phases is reasonable and adequate for the year the project is requested to be authorized.
- **Cost estimate adequacy.** The committee will determine that cost estimates for the project are reasonable, accurate and account for all work phases (e.g. preliminary engineering, right-of-way, construction, etc.) and fees (e.g. ADOT review fees) necessary to complete the project.
- **Performance data adequacy.** The committee will determine that performance data (e.g. ADT, miles of sweeping) or surrogate measures used to determine performance (e.g. number of trip generators along a bicycle route) is reasonable and well documented.

For each applicant, the committee will determine the following:

- **Revisions.** If there are outstanding questions concerning the project, MAG may require the sponsoring agency to revise its application to address the questions. **If an updated application is required, the sponsoring agency has one week to provide an updated application.** The revisions will be presented at the second meeting of the Committee.
- **Second meeting (If needed)– project ranking.** At the second meeting the committee will review and address outstanding issues from the previous meeting and recommend a ranked listing of projects for review by the Transportation Review Committee. This ranked list will include all projects presented to the Committee along with the committee's determinations and the results of required analyses as identified. **If there are no outstanding issues from the information review, this meeting may be combined with the first meeting.**

For each project type, the evaluation will use the following:

Air Quality Cost Effectiveness Analysis

- ❑ PM-10 Certified Street Sweepers (Procurement)
- ❑ PM-10 Paving Unpaved Road projects (Construction)
- ❑ PM-2.5 Paving Unpaved Road projects (Construction)

Congestion Management Process (CMP)

- ❑ Arterial and Bridge projects Pinal County (Design and Construction)

Blended Air Quality Cost Effectiveness Analysis & Congestion Management Process (CMP)

- ❑ Bicycle-Pedestrian, and Intelligent Transportation Systems

- Separate applications are provided by funding and modal category
- Each application is a multi tabbed Excel spreadsheet
- Information collected is needed to:
 - Verify federal eligibility,
 - Calculate AQ and CMP scores,
 - Detail what is being proposed and
 - Affirm the sponsor's commitment to the project
- **Unless marked as optional all data is required to be entered**

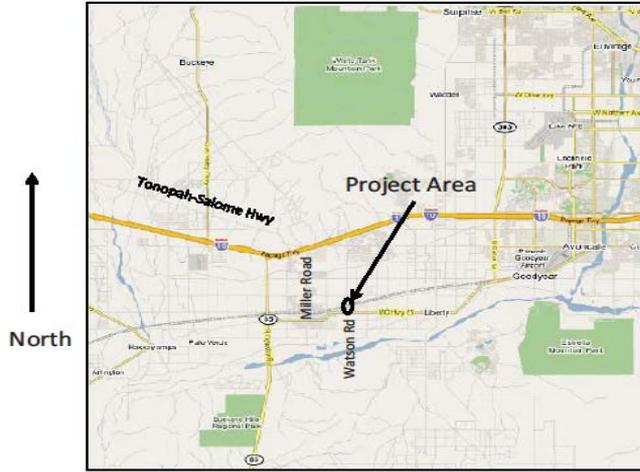
Location

Give the viewer a sense of where the project is located

- Condition of the surrounding area
- If possible, use aerial imagery
- Google maps – it's Free!
- www.google.com/maps



Vicinity Map



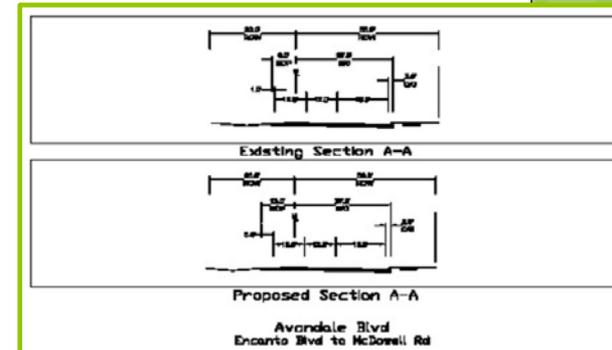
TOWN OF BUCKEYE, ARIZONA
WATSON ROAD VICINITY MAP EXHIBIT

Detail Map(s)



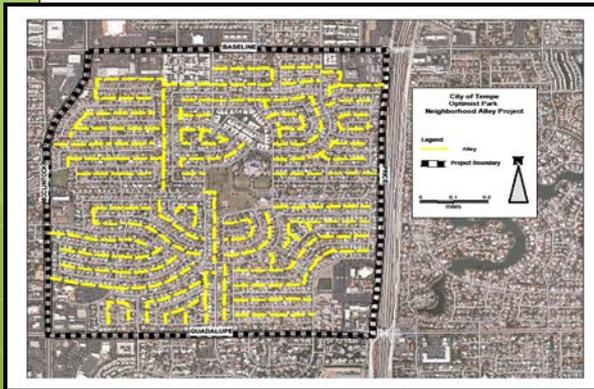
WATSON ROAD – NORTH EXHIBIT

- Identify challenges to getting FHWA approval
 - Environmental
 - Right-of-way
 - Utility Conflicts
- Most Use a Before and After Framework
 - Describe current condition
 - Describe proposed condition



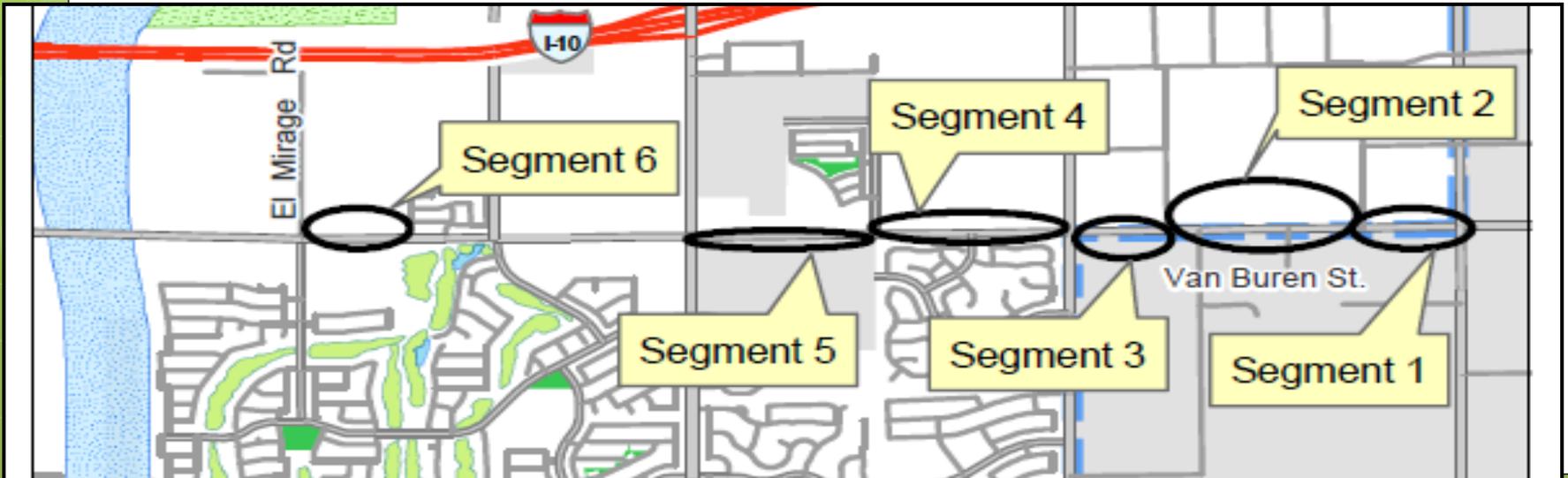
Required

- Photos of the current condition of the proposed project site
- Minimum of 1 photo. If your project contains eight segments, please include photos for each, if the cross-sections are different.

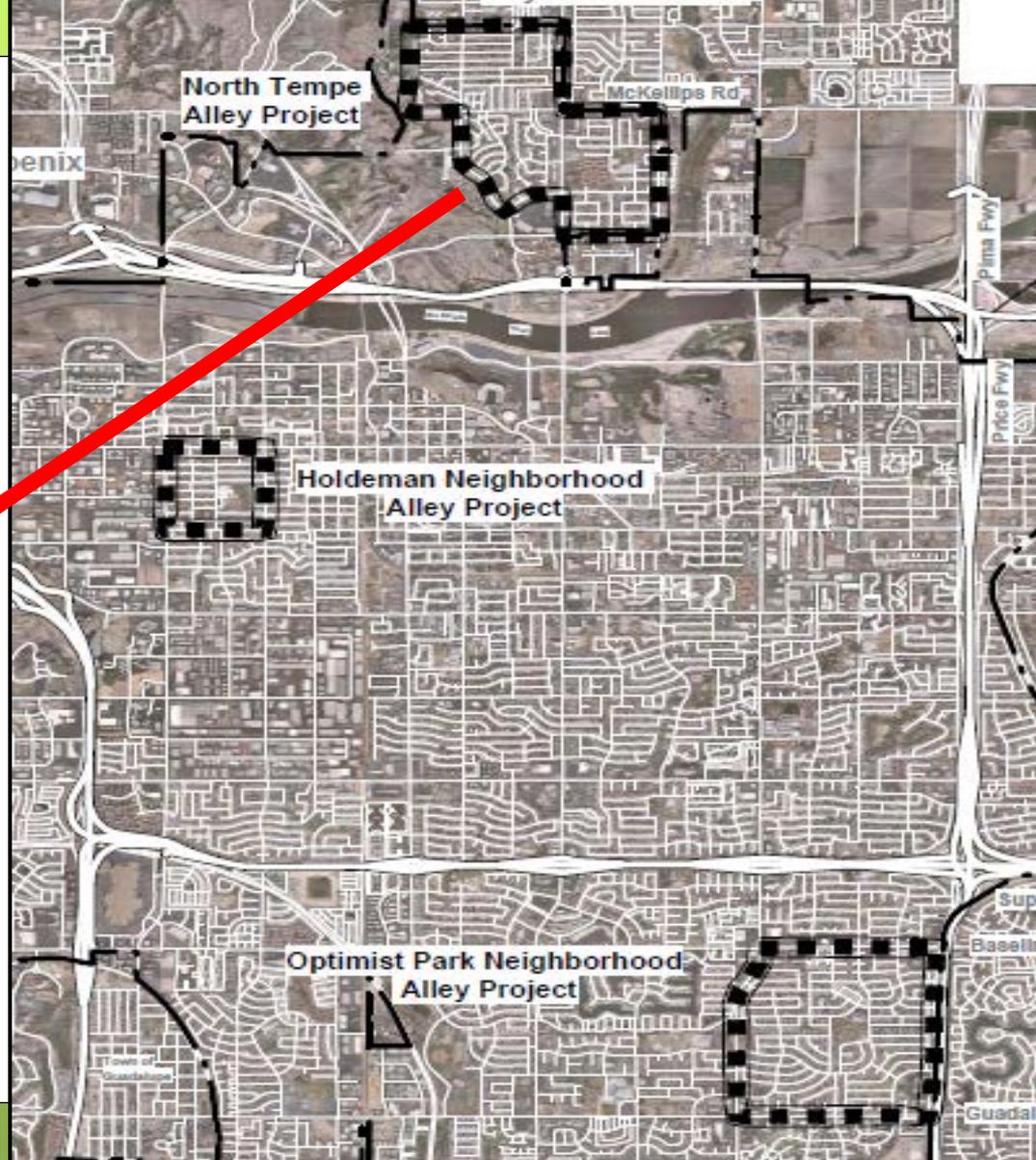
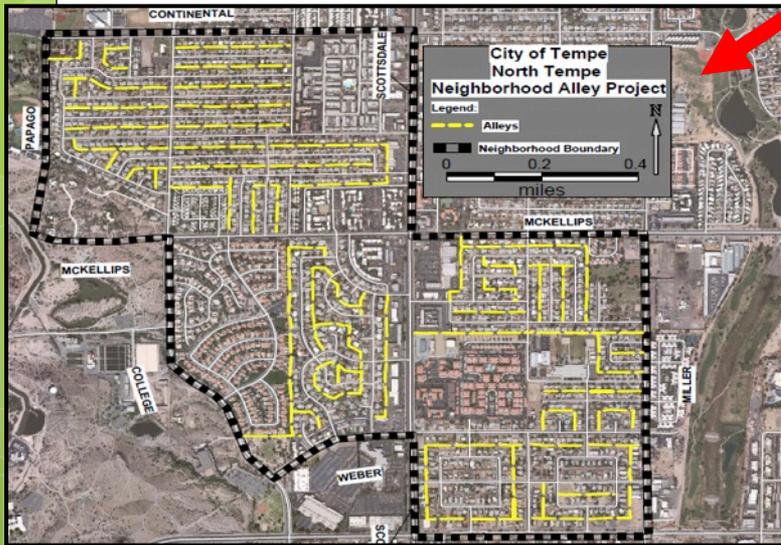


Segments

Where a project has multiple distinct segments or areas, the applications provide for describing each segment or area.



Ally Paving Example



- All applications provide for a detailed cost estimate
- Where applicable, cost estimates include:
 - ADOT Review Fees
 - Contingency, and
 - Identify what costs are eligible for federal funding



- Programming for projects should show all work phases regardless of funding source.
- Except for the Pinal Area STP Application, the applications do not provide federal funding for design.
- The year requested for programming federal funding will be considered by MAG as the preferred year. If there is insufficient funding in that year, MAG may move the project to another year.
- The minimum local match is 5.7 percent.



Who may sign the applications?

- The agency's manager or administrator, or
- A designated representative of the agency such as the City Engineer, Public Works Director or the Agency's representative on the MAG Transportation Review Committee

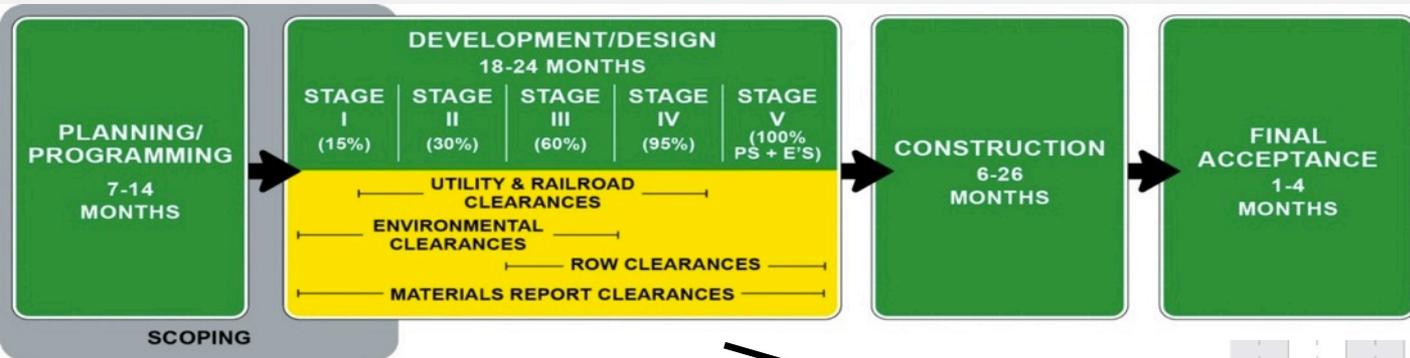
If there is a question of who should sign, call us.

1. Transmit Application electronically – Keep in excel format, support items including photos, graphics, etc., can be in pdf. ***GIS shape files of project are appreciated.***
2. Submit 2 signed copies to MAG by **10:00 A.M.**
Early apps appreciated!
 - Drop off or mail
 - *Running late* – Fax over signed copies, or scan and send.

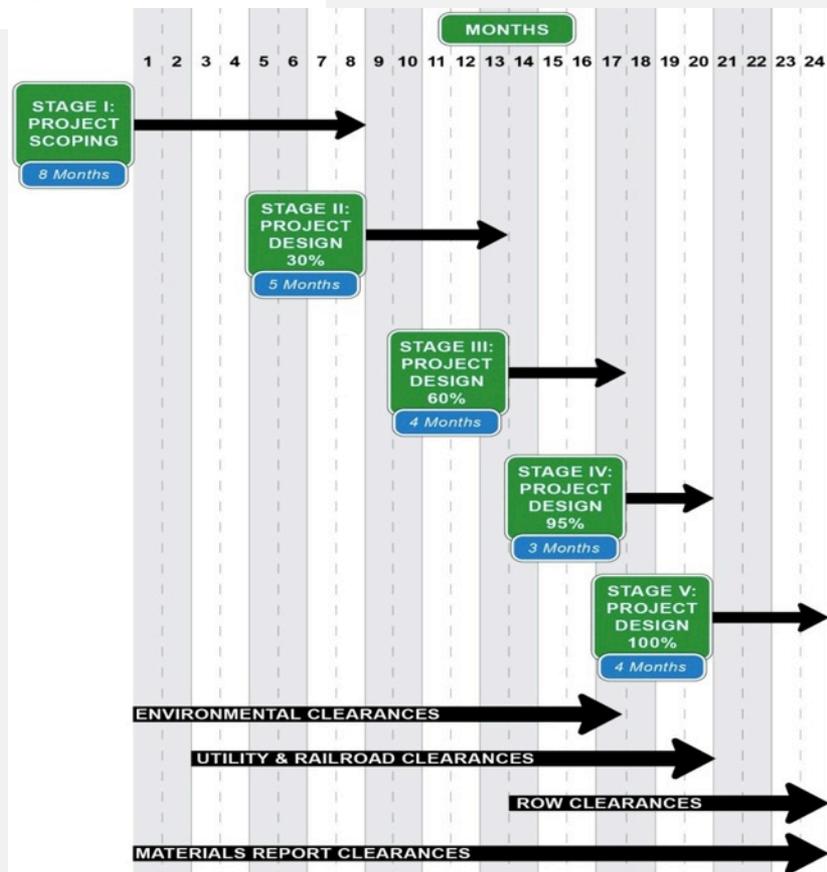
Monday, September 21, 2015 10:00 A.M.

Late applications will not be accepted

Applicants should anticipate that MAG will conduct a site visits for applications and as appropriate provide staff to facilitate the visit.



Project Development Life Cycle





Planning/Programming

- Project identified
- Funding identified / Eligibility approved
- Programmed in TIP / STIP
- ADOT Project Number (TRACS) assigned
- Federal-Aid Project Number assigned
- Scoping

Development/Design

- Scoping
- IGA
 - ✓ Identifies design review fee / local match components
- Clearances (Environmental, ROW, Railroad/Utilities, Materials Memo)
 - ✓ Environmental/ROW issues can lengthen timeline
- Consultant selection
- Plan Stages
 - ✓ Design should not proceed beyond 30% without NEPA clearance
- Funding authorization
- Bid



Construction

- Award
- Construction administration
- Construction oversight
- Materials sampling and testing
- Mitigation

Final Acceptance

- Project close out
- Funding reimbursement
- Monitoring
- Recordkeeping / Reporting

Thank you!

602.254.6300

MAG Staff

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- Steve Tate
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- Dean Giles
dgiles@azmag.gov
- Sarath Joshua
sjoshua@azmag.gov
- Margaret Boone
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- Alex Oreschak
aoreschak@azmag.gov

ADOT



- Jason Hafner
jhafner@azdot.gov
- 602.712.7581

Thank you

Break out Sessions 11:00-11:30

Saguaro Room (here)

- Paving Dirt Roads
- Street Sweepers
- Pinal County STP
 - ❖ Dean Giles, Steve Tate
 - ❖ John Bullen, Teri Kennedy

Chaparral

- TAP Safe Routes to School
 - ❖ Margaret Boone

Cottonwood Room

- ITS Projects
 - ❖ Sarath Joshua

Ironwood Room

- Bike/Ped Projects
 - ❖ Alex Oreschak

INFORMATION AND DISCUSSION

- Street Sweepers
- Paving of Unpaved Roads
- Pinal County STP

Street Sweepers

What the sweeper will be used for:

- Replace a noncertified sweeper
- Expand service area
- Increase sweeping frequency
- Replace an older certified sweeper
- Sweeping cycle length
- Lane miles
- Average weekday traffic

- Detailed price estimate from vendor is required
- Commitment in the 5% Plan for PM-10
- Location & maps of where street sweeper will be used
- Sweeper fleet
- Federal, Local, and Total eligible costs for sweeper
- **Additional local costs – not eligible**
- Maintenance of Sweepers is agency's responsibility for useful life of the vehicle.

Arterial and Bridge projects Pinal County (Design and Construction) evaluation will use the following:

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 FINANCED PROJECTS IN PINAL COUNTY

Assign Weights

Criteria	Sub-Category/Description	Assign Weight
1	ANNUAL AVERAGE DAILY TRUCK TRAFFIC (AADT)	13%
2	PAVE-LEVEL / BRIDGE CONDITION (1-5 SCALE)	13%
3	PEAK PERIOD SPEED DIFFERENTIAL	13%
4	PERCENT OF THROUGHPUT CAPACITY (PERIOD) PER LANE PER HOUR (PPCH)	13%
5	CRASH RATE BY VEHICLE MILES TRAVELED	9%
6	NUMBER OF INJURIES / FATALITIES (PER VEHICLE MILE TRAVELED)	9%

Criteria	Sub-Category/Description	Assign Weight
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%

© 2011. Total Weight: 100% (2011)