

December 7, 2009

TO: Members of the MAG Air Quality Technical Advisory Committee

FROM: Dean Giles, Air Quality Planning Program Specialist

SUBJECT: ADDITIONAL MATERIALS FOR AGENDA ITEMS #4 AND #5 FOR THE
DECEMBER 10, 2009 MAG AIR QUALITY TECHNICAL ADVISORY COMMITTEE
MEETING

Since the mailing of the December 10, 2009 MAG Air Quality Technical Advisory Committee meeting agenda packet, the project application review sheets from the MAG Street Committee meetings are being provided for agenda item #4, Evaluation of Proposed PM-10 Certified Street Sweeper Projects for FY 2010 CMAQ Funding and for agenda item #5, Evaluation of Proposed PM-10 Paving Unpaved Road Projects for FY 2013 CMAQ Funding. For the PM-10 Paving Unpaved Road Projects, the project application review sheets include the presentation made to the Street Committee and questions and discussion on the project.

According to the FY 2009 Draft MAG Federal Fund Programming Principles, the PM-10 Certified Street Sweeper Projects are to be reviewed by the Street Committee, ranked at the Air Quality Technical Advisory Committee, and then forwarded to the MAG Management Committee. In addition, the proposed PM-10 Paving Unpaved Road Projects are to be presented and reviewed by the Street Committee, ranked at the Air Quality Technical Advisory Committee, and then forwarded to the MAG Transportation Review Committee.

If you have any questions, please call me at (602) 254-6300.

STREET SWEEPERS

Agency	Issues
Apache Junction	None
Gilbert #1	Look at the data between #11 and #13; The applications were miss coded by the agency. The values have been corrected.
Gilbert #2	Look at the data between #11 and #13; The applications were miss coded by the agency. The values have been corrected.
Maricopa County	None
Peoriat	None
Phoenix #1	None
Phoenix #2	None
Scottsdale	None
Tempe	None

PAVING PROJECTS

Project: Buckeye

Applicant	Buckeye
Project	7th Street-Norton Drive from Beloat Road (South)

Presentation

Scott Lowe - Public Works Director, .5 mile of unpaved road along 7th Street. The project is near waste water treatment plan, and fire/police training facility. The ADT of 96 was a manual count and town engineer did calculation. Environmental concerns, there is a junk yard on east, canals on each side of the roadway. There are farm fields on the east side of the project as well. Proposing a 24 foot wide standard asphalt roadway.

Questions & Discussion

Question from the Committee: What is the current condition of the roads north and south of the project? The roads south are local residential streets that are paved. The roads that are near the project are in good condition.

Outstanding questions needing information for November meeting

None

Project: Gilbert 1

Applicant	Gilbert
Project	164th Street Pavement Project

Presentation

Kurt Sharpe - 164th Street pave unpaved road project is proposed. Hunt Highway is at the southern east-west street of the project. Proposing to pave 3/4 of a mile. The estimated ADT 120 . Right of way, is all owned. The project proposed to pave 2 1/2 inches at asphalt, 8 inches of aggregate base course (ABC). The total project cost is \$290K and are requesting \$248K in CMAQ funds.

Questions & Discussion

Questions from the Committee: What and who is this paving project serving? It is a residential area, this is the road that they use. How was the ADT estimated? The Town of Gilbert manually counted 5 cars per hour and then multiplied by 24 hours to come up with a total ADT of 120. Can you review the ADT regarding peak hours and such? This will be clarified for next time.

Outstanding questions needing information for November meeting

How was the ADT estimated? The Town of Gilbert manually counted 5 cars per hour and did a calculation. Can you review the ADT regarding peak hours and such? Yes, Gilbert staff will review and clarify this calculation.

Gilbert staff reviewed information, made slight modifications that were conveyed at the meeting and correct #'s were used in the CMAQ evaluation

Project: Gilbert 2

Applicant	Gilbert
Project	156th Street Pavement Project

Presentation

Kurt Sharpe from the Town of Gilbert presented. This project is proposing paving a 1/4 mile project on 156th Street. The project will use 2 1/2 inches of asphalt and 8 inches of ABC. There are no foreseen environmental, utility, or right of way. Estimated that total cost of the project is \$104K and requesting \$88K of CMAQ funding. The ADT is 82 and the same calculation was used. Just like the previous project, Gilbert can review and clarify the ADT calculation.

Questions & Discussion

Questions from the Committee: Can you review the limits of the project? A 1/4 mile south of Riggs Road on 156th Street. What are the other roads paved in that area? The other roads in the area, were thought, were also unpaved. What is the main sources of traffic for both of Gilberts projects? Mainly residential, there are also farm equipment.

Outstanding questions needing information for November meeting

How was the ADT estimated? The Town of Gilbert manually counted 5 cars per hour and did a calculation. Can you review the ADT regarding peak hours and such? Yes, Gilbert staff will review and clarify this calculation. Please clarify the future plans for the area east of the proposed project what is the development?

Gilbert staff reviewed information, made slight modifications that were conveyed at the meeting and correct #'s were used in the CMAQ evaluation

Project: Guadalupe

Applicant	Guadalupe
Project	Dust Mitigation Through Streets and Alleys Improvements

Presentation

Gino Turribuentes the Community Development Director presented with the aide of their town engineer Frank Fletez. The project consists of proposing to pave curb and gutter on 6 streets, and pave 8 alley segments. There are 14 segments total in the 1 square mile. There are no right of way or utility issues. The amount of CMAQ funds requested is just over \$2.5 million. The main focus of these projects are to resolve the dust mitigation concerns in the Town of Guadalupe.

Questions & Discussion

Questions and Comments from the Committee: Does curb and gutter as a stand alone project meet the requirements of CMAQ for Air Quality concerns? If they are involved in a paving road, paving shoulder, and paving alley. From reading the application and hearing the presentation, it sound as if the curb and gutter are stand alone projects with no shoulders? The Town of Guadalupe is working on the assumption that curb and gutter would be eligible. Can you explain how curb and gutter would mitigate dust? The rationale would be that vehicles could/would not drive over the curb and gutter and create track out. Question to MAG: Has MAG funded stand alone curb and gutter? MAG will review eligibility with FHWA. Will this project be paving the shoulder? No, this project will just be adding the curb and gutter. Is there a breakdown in cost per segment? Yes, each segment has a detailed cost estimate. If the committee so chooses or recommend the project can the project be divided into a separate alleys project and a shoulder/curb & gutter project.

Outstanding questions needing information for November meeting

MAG needs to review the curb and gutter and shoulder regarding eligibility with eligibility. It's proposed that the project be divided into 2 projects - an alleys project and a paving curb/gutter project.

Discussions with the FHWA indicate that curb and gutter only projects are eligible for CMAQ funding. The Town of Guadalupe has modified its application in separate applications for alley and shoulder paving. No new segments were added or deleted from that submitted for the combined project.

Project: Maricopa County

Applicant	Maricopa County
Project	87th Avenue, Deer Valley Road to Peoria CL (Via Montoya Rd)

Presentation
<p>Clem Ligocki - The proposed paving project is on 87th Avenue from Deer Valley to Via Montayoa (Peoria City Limits). The project is in a county island with a length of 1/4 mile. The project would be 2 inches of concrete/asphalt on native soil, the width would be 20 to 24 feet. The project is scoped and right of way is owned. There are six power poles; the location of the utility poles will need to be moved. The traffic count was done in 2008, and was 164 ADT by a tube count. There is development to the north and south of the project. About 15 homes or so that use this road. This project currently has \$186K of CMAQ programmed for 2011. There are drainage issues associated with this project. This is why they are requesting an additional \$230K for the project. There are a number of complaints from citizens about dust.</p>

Questions & Discussion
<p>Questions and comments from the Committee: Are power poles going to be a problem, will they need to be moved? Yes, the utility poles will need to be moved, which will contribute to the costs of the project. It is anticipated that Peoria will annex this road. To MAG Staff: for projects requesting additional CMAQ funds, the CMAQ analysis uses total project costs? The calculations use total cost and total CMAQ funds requested. Are there any sidewalks included in this project? No there are not. It looks like there are access points as part of project, will you be paving these access points? They will not be paving access points paved as part of this project. The intent of the application in question is to see if the access points will be fully paved and incorporated in the project. Can you discuss the drainage issues with the project? The drainage issues are associated with the northern section of the project. We are working on the specific drainage components of the project and related issues.</p>

Outstanding questions needing information for November meeting
<p>Please clarify the utility pole relocation issue. Maricopa County Response: Yes, this project will be relocating the utility poles as they are a hazard in their current positions. That does contribute to the cost of this project, but it is necessary.</p>

Project: Phoenix

Applicant	Phoenix
Project	2013 CMAQ Alley Dust Proofing

Presentation

Chris Turner-Noteware, Civil Engineer III in Streets Maintenance. The City of Phoenix commits \$800K pre year for dust control/mitigation/improvement. This project is proposing to use \$442K of those local funds. To date the City of Phoenix has completed 426 miles of alleys and have 326 miles to go. The 2013 paving alleys fulfills our commitment to reduce reduces the # of miles of unpaved alleys. This project is broken into quarter mile segments. This project proposes to pave 32 miles in 22 quarter mile section. This project has an average distance of 2.1 from an air quality monitor; there are 4 segments within a mile of the monitors. The construction is proposed for 2013 and is requests just over \$1 million in CMAQ funds. The typical alley section is 20 and 16 foot wide. The typical paving alley width is 11 feet wide. The ADT is on average 10 vehicles per day. There are no anticipated right of way, utility, or environmental issues with the project.

Questions & Discussion

Questions and comments from the committee: What is the life expectancy of this application? The life expectancy right now is undetermined and still being tested; the City of Phoenix has been paving these alleys with this application for 5 - 7 years and have not had to go back and reapply/pave. What will be the width of the paving? We will be paving 11 feet in the middle of the alley. The right of way can range between 16 - 20 feet. Do residents have access to alleys? Are there a high number of residential users? The average is 10 vehicles per day including utility and residential vehicle use.

Outstanding questions needing information for November meeting

Please verify the construction and construction administration costs. MAG Staff: there was a clerical error in the application data transmitted to the committee where the construction and construction administration costs were flipped in all applications.

Project: Surprise

Applicant	Surprise
Project	Pave Unpaved Shoulders at various locations

Presentation

Suneel Garg - Public Works department. The project is proposing to pave dirt shoulders at 10 different locations with the paving consisting of 2 inches of asphalt over 6 inches of ABC. Dirt shoulder paving will consist of 1 -2 feet saw cuts with 8 feet of shoulders, and restriping. There will be curb and gutter included in 1 location. The General fund will provide the local match for the project. The ADT on most of the arterials are high and vary; these ADT estimates were collected by tube counts. There are no known utility or right of way issues that need to be addressed by this project.

Questions & Discussion

Questions and comments of the committee? The Greenway location (1 of 10 segments) is the only location that includes curb and gutter. Width of paving shoulders? These will be paved 8 feet wide in all locations. Regarding the segment that has the curb and gutter, they will be paving a shoulder and then adding curb and gutter on the whole length of the segment to address drainage issues caused by steep slopes.

Outstanding questions needing information for November meeting

MAG staff needs to work with FHWA and City of Surprise to review the width, 8 feet, of shoulders that are proposed.

The City of Surprise has modified its request to reduce the width of shoulder paving to 5 feet and accordingly reduced the requested federal funding amount to \$570,000.

Project: Peoria 1

Applicant	Peoria
Project	Paving Dirt Shoulders, Project 1 - Highways & Recreation Corridor

Presentation	
<p>Maher Hazine - This project has 2 segments for paving shoulders: New River Road, the first segment is just over a 1/4 mile road. The second road is Castle Hot Spring, which is over 11.3 miles to the Maricopa County line. The approximate distance to the monitors is just over 10 miles. Pave a typical shoulder 2 inches of asphalt on 4 inches of ABC, for a width of 5 feet.</p>	

Questions & Discussion	
<p>No questions</p>	

Outstanding questions needing information for November meeting	
<p>None</p>	

Project: Peoria 2

Applicant	Peoria
Project	Paving Dirt Shoulders, Project 2 - Rural – Arterial Roads.

Presentation	
<p>Maier Hazine - Paving shoulders on a series of segments. A 1/4 mile of a dirt shoulders on 67th Avenue. Segment #2 is on Jomax road on the south shoulder about 1.3 miles. This area includes a material operation with heavy vehicle traffic.</p>	

Questions & Discussion	
<p>Questions and Comments for MAG: Does the asphalt millings on the should qualify as a dust mitigation measure? MAG Staff: yes they do, but they only add up to about 50% savings vs. a paving project.</p>	

Outstanding questions needing information for November meeting	
<p>None</p>	

Project: Peoria 3

Applicant	Peoria
Project	Paving Dirt Shoulders, Lake Pleasant Parkway from Loop 303 to A74-Project 4

Presentation	
<p>Maier Hazine - This is a 1.9 mile paving shoulder project on Lake Pleasant Parkway. The entire road is on and owned by the State Lands Department. We have an understanding with State Lands that we can maintain and take care of shoulders to work through regulatory issues without any application for right of way. In the case of shoulders, which is considered maintenance, we do not have to acquire right of way.</p>	

Questions & Discussion	

Outstanding questions needing information for November meeting	
<p>MAG will work with Peoria to verify that State Lands is in agreement that paving shoulders is maintenance. MAG worked with Peoria, ADOT Right of Way, and FHWA and verified that the project can move forward if funded.</p>	

Project: Tempe 1

Applicant	Tempe
Project	North Tempe Neighborhood Alley Stabilization

Presentation

Robert Yabes - Principal Planner and Patrick Grommer who heads up the Alley Reconstruct and Dust Proofing program. This neighborhood is located near South Scottsdale. This project consists of about 10.5 miles of alleys to be paved. For the paving/reconstructing, the City uses millings from their other projects and a dust treatment.

Questions & Discussion

Questions and comments from the Committee: Are there any concerns about the utility poles? No. How was the ADT calculated? This was an observation and estimate by city staff. Is the material used for the project owned by Tempe or will you buy it? The city owns the material. The cost of the project is mainly the labor involved since the City owns the materials. What type of Dust proofing material will be used? Right now we are using a polymer base, we have tested and are testing other dust proofing methods.

Outstanding questions needing information for November meeting

None

Project: Tempe 2

Applicant	Tempe
Project	Holdeman Neighborhood Alley Stabilization

Presentation	
<p>Robert Yabes - This is the second proposed paving alley project, which is essentially the same. There were traffic counts completed in the north section of this project. The total miles for this project is about 4.25 miles in length.</p>	

Questions & Discussion	

Outstanding questions needing information for November meeting	
<p>None</p>	