

MEETING MINUTES FROM THE
MARICOPA ASSOCIATION OF GOVERNMENTS
STANDARD SPECIFICATIONS AND DETAILS COMMITTEE

January 7, 2015

Maricopa Association of Governments Office, Ironwood Room
302 North First Avenue
Phoenix, Arizona

AGENCY MEMBERS

Jim Badowich, Avondale, Vice Chair	Julie Christoph, Mesa
Craig Sharp, Buckeye	Dan Nissen, Peoria
* Warren White, Chandler	* Syd Anderson, Phoenix (St. Trans.)
Bryce Christo, El Mirage (proxy)	Jami Erickson, Phoenix (Water)
* Wayne Costa, Florence	Rod Ramos, Scottsdale
* Tom Condit, Gilbert	Kristin Tytler, Surprise
* Mark Ivanich, Glendale	Tom Wilhite, Tempe, Chair
Tom Vassallo, Goodyear	* Harvey Estrada, Valley Metro
Bob Herz, MCDOT	Gregory Arrington, Youngtown

ADVISORY MEMBERS

Jeff Benedict, ARPA	Jeff Hearne, ARPA
Arvid Veidmark, AZUCA	* Peter Kandarlis, Independent
* Mike Sanders, AZUCA	Paul R. Nebeker, Independent
Brian Gallimore, AGC	Jacob Rodriguez, SRP
Greg Groneberg, AGC (proxy)	

MAG ADMINISTRATIVE STAFF

Gordon Tyus

* Members not attending or represented by proxy.

GUESTS/VISITORS

Ed Diggs, Cues, Inc.
Karl Zook, City of Surprise
Stew Waller, Rinker

1. Call to Order

Chair Tom Wilhite called the meeting to order at 1:32 p.m.

2. Call to the Audience

Mr. Wilhite asked new member Greg Groneberg to introduce himself. Mr. Groneberg said he was with Southwest Asphalt and would be the new AGC representative. Mr. Wilhite also welcomed Kristin Tytler as an official member. She introduced the new City Engineer from Surprise who was also in attendance, Karl Zook. Mr. Zook said he will be her substitute when needed. Mr. Wilhite then opened the call to the audience. Mr. Diggs introduced himself and said he would be presenting later. There were no other requests to speak from the audience.

3. Approval of Minutes

The members reviewed the October 10, 2014 meeting minutes. Bob Herz moved to accept the minutes as written. Rod Ramos seconded the motion. A voice vote of all ayes and no nays was recorded.

Carry Forward 2014 Cases

4. Case 14-03: Updates to Guardrail Details.

Make revisions to Section 415 and/or include guardrail details in MAG. Bob Herz said he now plans for the Maricopa County 31" guardrail details to be published in 2016. Mr. Wilhite asked if carrying over the case has any effect on completing the change this year. Mr. Herz said he has plans to work on them during the April/May time period and will bring in the changes when ready.

5. Case 14-06: Revisions to Section 718 Preservative Seal for Asphalt Concrete.

Update the specifications for the Type C preservative seal. Jeff Benedict said there have been no changes, but that the case is planned for discussion at the next Asphalt Working Group meeting on January 22, 2015 at noon at the ARPA office. He expects the main author of the specification to be at the meeting.

6. Case 14-12: Proposed Revisions to Sections 336, 321.10.3, 601.2.7 and Detail 200-1.

Add pavement removal criteria to prevent full depth pavement cuts from being located within a lane wheel path and to prevent creation of narrow pavement edge strips. Bob Herz said a new version of the case was provided in the agenda packet. He restated the purpose of the case and described some of the revisions. Additional revisions to Sections 321, 601 and Detail 200-1 were included.

Mr. Herz said he addressed issues brought up last year including adding an option to do milling on thicker pavements with staggered layers. He asked members to review the updates and provide feedback. Most of the proposed changes are already in the MCDOT supplement.

Brian Gallimore said AGC will have the same issue: they think it is a design issue and are concerned about who will pay when additional paving is needed. Mr. Herz said the changes did address the payment section and that contractors can submit change orders if needed.

Julie Christoph asked where she could find specifications for the safety edge. Mr. Gallimore said the safety edge was added to Detail 201 last year. Karl Zook of the City of Surprise said the paving equipment now has an attachment to form the safety edge.

7. Case 14-17: Create New Section 322 - Asphalt Stamping.

Provide specifications for materials and methods of Asphalt Stamping. Brian Gallimore submitted a case that is based on the Asphalt Stamping supplement from Gilbert. He said the case would also be discussed at the working group meeting. One area he is investigating is the issue of warranties: what do owners expect and what do contractors think is reasonable? Mr. Wilhite asked if Mr. Gallimore has looked at other specs such as those from the California Greenbook. He said no, but he would be interested in reviewing other specs if available.

Jim Badowich asked how the heating affects asphalt. Brian Gallimore was concerned that the summer ambient heat and traffic could cause the stamped gaps to close. He was also concerned about the paint requirements and maintenance. Mr. Badowich said Avondale has experimented with it, and one problem comes up that when treating streets, these areas have to be maintained differently.

Mr. Gallimore wanted an idea what agencies thought was an acceptable warranty. Rod Ramos said Scottsdale has done a lot of this kind of work and require a 1-year warranty. He also recommended not applying the color immediately, but to wait for some curing to avoid track-out. He said he would look to see if Scottsdale has developed any specifications.

New Cases for 2015

8. Case 15-01: Miscellaneous Corrections.

No new miscellaneous corrections were introduced at the meeting; however, the case number was set aside for future corrections submissions.

9. Case 15-02: Proposed Revisions to Section 772, Table 771-1 and Detail 145.

Adjust fence requirements to reference ASTM F1043 Standard Specification for Strength and Protective Coatings on Steel Industrial Fence Framework. Bob Herz introduced a new case to use a more appropriate ASTM reference for chain link fence framework. This case adds alternative options to Table 771-1 and adjusts requirements in Section 772 Chain Link Fence.

The case also revises Note 1 on Detail 145 to reference ASTM F1043. Mr. Herz said he thought the case was pretty straight-forward, but recommended members review ASTM F1043 for themselves. He noted that members have access to the ASTM specifications.

Dan Nissen asked about any changes to the ASTM access process. Mr. Tyus reported that in the packet was an e-mail summarizing the status of the ASTM account. He said ASTM had a new account manager, John Gallagher, and his contact information was provided on the sheet. Members can contact him directly about setting up ASTM access at their agency, which is done either through an IP address or app. In addition, MAG will be working with ASTM to set up a general portal through MAG's servers that will allow basic access.

10. Working Group Reports

Chair Wilhite asked for reports from the working group chairs.

a. **Water/Sewer Issues Working Group**

Jim Badowich said he has received many compliments both within and outside his agency on the work done last year, especially from the water department. He proposed meeting the third Thursday of the month and asked if that was a good date for members to attend. It was agreed to set the next meeting date Thursday, January 15, 2015 at 1:30 p.m. Mr. Tyus said he would reserve a meeting room. Mr. Badowich said Arvid Veidmark has been working on a new Section 608 Horizontal Drilling that he hopes will be submitted as a case soon. Other areas he wanted to work on this year include updating the testing specifications, especially flushing. Paul Nebeker agreed with addressing the flushing specs. Jami Erickson said a goal in Phoenix is to reduce their supplements, so she hopes to get more of them incorporated in the MAG specifications.

b. **Asphalt/Materials Working Groups**

Jeff Benedict said the group would meet Thursday, January 22, 2015 at noon at the ARPA office. They will be discussing the three open cases: 14-06, 14-12 and 14-17, as well as the issue of core and puncture repair that was brought up at the end of last year.

Tom Wilhite asked about low impact development, and the use of materials such as pervious concrete. Jeff Hearne said pervious concrete was used in Glendale and Scottsdale for parking lots. Julie Christoph said Mesa is studying its use and will be preparing a report. Mr. Hearne said it is becoming a mature technology and ASTM now has specs on applications, testing and maintenance.

Jim Badowich asked the group to look at Section 336 Pavement Matching. He said patching is becoming a big issue. Patches are stripping and thinks the specification may need to some "guts" added to it, including some minimum testing requirements. Bob Herz said Section 336 does reference Section 321 in 336.2.4.1. Brian Gallimore said they can review Section 336 this year.

c. **Concrete Working Group**

Jeff Hearne said they would meet after the other group on January 22, and will look into pervious concrete specifications as discussed. He said it has been on the radar screen as part of the outside the right-of-way specs in the past. Tom Wilhite said it could be used for on-street parking that is in the right-of-way.

d. **Outside Right-of-Way Working Group**

Peter Kandarlis was not present to provide an update.

11. Laser Profiling Presentation

Ed Diggs of Cues, Inc. provide a presentation on the use of laser profiling of pipes. A copy of ASTM F3080-14 *Laser Technologies for Measurement of Cross-sectional Shape of Pipeline and Conduit by Non-Rotating Laser Projector and CCTV Camera System* was provided to members.

First Mr. Diggs addressed a couple issues discussed by the committee. He noted Philadelphia used pervious asphalt for streets and won several EPA awards. He also recommended a website, crossboresafety.org, for information on horizontal boring.

His presentation demonstrated how laser profiling and LIDAR equipment can be used to help determine the amount of decay and ovality of installed pipe. He said the ASTM spec is fairly new, and two people from Cues were on the committee that helped develop it. Slides showed how the laser profiling process can determine ovality (deflection) of pipe. There is also software that can build a 3D representation of the pipeline. LIDAR uses a different technology that is good for pipe 36" in diameter and up. It can determine the thickness of the pipe wall by comparing the original thickness in as-builts to the actual measured interior diameter. Other agencies, such as Fort Worth, have used this information to determine what pipe required replacement, which allowed them to save money overall. The presentation is available on the MAG website here:

<https://www.azmag.gov/Events/Event.asp?CMSID=7009>

Comments on the presentation included:

- Paul Nebeker noted that current specifications require that pipes must be cleaned before testing. Mr. Diggs responded that the LIDAR is floated down without cleaning, and can image above the waterline and use sonar to get an idea of debris buildup below.
- Jim Badowich asked if there was a way to determine sag. Mr. Diggs said laser profiling was not the best equipment for that test. Mr. Badowich wished there was a type of technology that could test and image the pipe all in one pass.

12. General Discussion

Chair Wilhite discussed the 2015 proposed meeting schedule and asked about specific dates around holidays in April, July and September. Members agreed to keep the proposed dates with the exception of changing the April meeting from the 1st to the 8th since many members will be at the streets conference the first week of April. Mr. Tyus said he would adjust the schedule and reserve a room on April 8.

Gordon Tyus provided an update on the printing and distribution of the 2015 Edition of the Uniform Specifications and Details for Public Works Construction. He said MAG had 200 books printed, delivered and ready for sale. The prices will stay the same at \$24.77 for the book, \$9.91 for binders plus 6.3% sales tax. The documents are also posted online and include hyperlinks like before. Mr. Tyus noted that he also updated the specs and details documents page with additional early electronic versions. They available here:

https://www.azmag.gov/communications/Specs_and_Details/default.asp

13. Future Agenda Items:

Chair Wilhite asked if members would like to hear any presentations during the February meeting. He proposed having Kelly DeRosa from the FHWA give a presentation on ADA requirements. Kristin Tytler said she attended a workshop she gave and learned a lot. Bob Herz said he has also already seen her presentation. Mr. Wilhite asked if other members would like the ADA presentation. Jim Badowich said he thinks it would be good but not as a long workshop, but maybe a short presentation on the legal issues.

The chair asked members for other issues the group may want to review. Karl Zook said one concern was surface water availability. If agencies have to be more dependent on groundwater, what effects will this have on water safety? Paul Nebeker said subsidence issues are also a concern, especially as more ground water is used. Mr. Wilhite said maybe MAG should address the reclaimed water specifications. Tom Vassallo said he thinks there should be clarification on reclaimed water when it comes to separation requirements, and perhaps more leniency. Jami Erickson warned about the possibility of contaminating potable water supply and the need for separation, including near storm drains.

14. Adjournment:

Seeing no further business the meeting was adjourned at 2:52 p.m.