

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

August 1, 2007

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

AGENCY MEMBERS

Jim Badowich, Avondale	Jesse Gonzalez, Peoria
* Steven Borst, Buckeye	Jeff Van Skike, Phoenix (St. Trans.)
David Fern, Chandler	Jami Erickson, Phoenix (Water)
* Mark Weiner, Gilbert	Gerald Wright, Queen Creek
Tom Kaczmarowski, Glendale	* Rodney Ramos, Scottsdale
* Troy Tobiasson, Goodyear	* Don Moseley, Surprise
Bob Herz, MCDOT	James Bond, Tempe
* Kelly Jensen, Mesa	

ADVISORY MEMBERS

John Ashley, ACA	Don Green, ARPA
Jeff Benedict, AGC	Paul R. Nebeker, Independent
Brian Gallimore, AGC	William Ast, NUCA
Peter Kandaris, SRP, Vice Chairman	Dale Phelan, NUCA
Don Cornelison, ARPA	

MAG ADMINISTRATIVE STAFF

Gordon Tyus

* Members not attending or represented by proxy.

GUESTS/VISITORS

John Shi, MCDOT
Steve Watters, ADS
Mike Hook & Tiffany Ward, Hansen Pipe and Precast
Mark Glock & Jesse Jimenez, City of Phoenix (Materials Lab)
Paul Mueller, Consulting Civil Engineer
Stew Waller, Arizona Cement Association

1. Call to Order

Chairman, Bob Herz, called the meeting to order at 1:37 p.m.

2. Approval of Minutes

The members reviewed the July 11, 2007 meeting minutes. John Ashley introduced a motion to accept the minutes as written. David Fern seconded the motion. A voice vote of all ayes and no nays was recorded.

3. 2006 Cases (old cases)

- a. **Case 06-04 – Reduced cement content for Reinforced Concrete Pipe (RCP) mixes, Section 735.** Revisions to Section 735. David Fern summarized the case (use ASTM C76 requirements for fly ash and cement; eliminate MAG changes to the minimum fly ash percentage and minimum cement content). Discussion was opened to committee members and guests. Paul Mueller provided his perspective on concrete mix design. He stated that there are limited benefits to increasing cement content; increasing fly ash and air entrainment are more beneficial. Steve Watters noted that higher cement content helps durability and long-term life of concrete pipe. Jesse Jimenez noted slower strength gain will occur with lower cement and higher fly ash contents. Paul explained that higher mix density is the best way to improve durability. Although fly ash can slow strength gain, it will provide better sulfate resistance and can improve density because its particle fineness. He also noted that cement is being produced with finer grinds that can offset set the retardation traditionally seen with fly ash. Mark Glock said that the City of Phoenix performs load tests at their lab to insure pipe quality, but did not believe that other agencies were performing load tests. Otherwise, agencies must rely on plant certifications. He questioned whether other agencies wished to rely on certifications without their own testing. Mike Hook stated that Hansen Pipe and Precast will not ship pipe lots before their own load testing shows minimum strength has been achieved. Mike Hook and Stew Waller noted that other agencies (ADOT and SRP) presently use the mix design as provided by ASTM C76 without any modifications, and estimated that the cost reduction is on the order of 5% to 10% for the ASTM mix versus the MAG modified mix. Stew remarked that there has been an incentive to ship lots earlier because of the tight cement market, but that a reduction in cement content for pipe may help reduce the demand and tendency to ship early. Bob Herz questioned the need in the case to reference ASTM C311 and C618 along with C76 in Section 735, since ASTM C76 already notes these specifications. David Fern said that he would only reference ASTM C76 and asked for a vote at the next meeting. Members were requested to be prepared to vote on this case at the next meeting.

4. 2007 Cases (new cases)

- a. **Case 07-01 – Miscellaneous Corrections:** (a) Dimension correction to Detail 535 catch basin type “F”; (b) Drafting correction to Detail 222 single curb; (c) Typographic correction to Section 105.5; and (d) Metric number to English number correction to Detail 510. Bob Herz described all of the proposed changes and introduced a motion for a vote on the case with changes as shown in the handouts. Peter Kandaris seconded the motion. A vote of 8 yes, 0 no and 0 abstentions was recorded.

b. **Case 07-02 – Revisions to Asphalt Concrete, Sections 321 and 710:** Major re-writes of Asphalt Concrete placement and materials Sections 321 and 710 as proposed by the Asphalt Paving Technical Committee (APTC). Don Cornelison stated that the sponsors had reviewed the previous comments and would like to set up a meeting with interested members prior to the next full committee meeting to discuss the comments in detail. He said most of the comments showed a need to better define responsibilities. The members agreed and Don said he would send out notices and possible meeting dates to all members. Committee members were requested to continue reviewing the modifications and provide written comments as soon as possible. Since there appears to be more work required, it was suggested that this case would probably carry over to next year.

c. **Case 07-03 – PVC Catch Basins, Proposed New Details 535-2, 535-3, 537-2, 539-2, 542-1 through 4, and 543-1 through 5:** Dale Phelan handed out revised details that incorporated suggestions from the last meeting. Peter Kandarlis had some additional changes (mostly with wording) and would provide them to Dale in a few days. Jim Badowich asked if the grates shown were ADA approved. Dale said that they are the same as the existing MAG grates and the committee agreed to look into this issue at a later date. Bob Herz and Jim Badowich identified other changes required on the details, including deleting “ductile iron” and other depicted imprints on the frame and grates, showing the curb and any curb warping in details 542-1 and 543-1, and providing better detailing on the manufacture of the grate transition. Dale said he would make the changes and requested a vote at the next meeting. Members were requested to be prepared to vote on this case at the next meeting.

d. **Case 07-04 – Revision to Water Service Taps, Section 631.3.5:** Removing requirements for insulation of copper service pipe at corporation stops with dielectric insulators. The committee had no discussion on this item.

e. **Case 07-05 – Revision to Fire Hydrant Installation, Detail 360:** Add a new note to allow the use of joint restraint systems along with thrust blocks. Jesse Gonzalez stated that he would have a modified detail to present to the committee at the next meeting.

f. **Case 07-06 – Revision to Section 104, Scope of Work:** Add order of precedence for contract documents and eliminate gender-specific wording. Bob Herz summarized the case and comments he had received from other agencies, noting that the alternate wording used by other agencies are covered by definitions in MAG Section 101.2. He agreed to note that the order shown in the proposed revision is from highest to lowest and requested a vote at the next meeting. Members were requested to be prepared to vote on this case at the next meeting.

g. **Case 07-07 – Revision to Section 109, Measurements and Payments:** Clarification of language when duplicate Weighmaster’s Certificates are to be provide to the Engineer, clarification on equipment payment rate calculations, and references state statutes that govern retention. Bob Herz said that no changes had been made since the last meeting, and introduced a motion for a vote on the case as shown. Peter Kandarlis seconded the motion. A vote of 8 yes, 0 no and 0 abstentions was recorded.

- h. **Case 07-08 – Revision to Section 615.2, Sewer Line Construction:** Gerald Wright handed out proposed revised wording that provides water ponding tolerances inside sewer pipe. Members were requested to review and return with comments for the next meeting. Depending on the extent and type of comments, members were requested to be prepared to vote on this case at the next meeting.
- i. **Case 07-09 – Revision to Detail 145, Safety Rail:** Bob Herz handed out a revised detail showing steel reinforcing and rail anchor placement in concrete walls supporting safety rails. There was a general discussion on wall thickness and reinforcement design by the committee members. Members were requested to be prepared to vote on this case at the next meeting.
- j. **Case 07-10 – Deletion of Obsolete Details:** Deletion of Type C redwood pavement terminations in Detail 201 and deletion of curb warning beacons in Detail 221. The committee had no discussion on this item. Members were requested to be prepared to vote on this case at the next meeting.
- k. **Case 07-11 – Revision to Detail 370, Vertical Realignment of Water Mains:** Include an option for realignment of ductile iron mechanical joint. Jesse Gonzalez noted that he had received comments from committee members and would make changes to the detail for the next meeting.
- l. **Case 07-12 – Revision to Detail 404-2, Water & Sanitary Sewer Separation/Protection:** Adding language to clarify the location of pipe and joint restraints to insure that fittings/couplings do not fail and create cross-contamination. Jesse Gonzalez said he had not received any comments on the proposed change and requested a vote at the next meeting. Members were requested to be prepared to vote on this case at the next meeting.
- m. **Case 07-13 – Revisions to Section 756, Fire Hydrants:** Modify Section 756 by providing performance criteria that will reduce maintenance and operation issues with fire hydrants. Jami Erickson stated that she was working on the comments received. Bill Ast had other comments that he would provide to Jami after the meeting. The committee recognized that there is a need for both a wet barrel and a dry barrel specification, but that the revision presented would be only for the wet barrel application. A future case could be presented for the dry barrel option. Jami intends to make all changes and requested a vote at the next meeting. Members were requested to be prepared to vote on this case at the next meeting.
- n. **Case 07-14 – Revisions to Section 505, Concrete Structures:** Modify Section 505 as requested by the supplements subcommittee to reduce the number of agency supplements to this section. Changes to Sections 101.2, 105.2 and 206 will result from the proposed revisions to Section 505. Bob Herz reviewed the proposed changes and opened the case for discussion. Jim Badowich asked if there are ways to avoid referencing ADOT standard drawings since most inspectors do not have them in the field. Paul Nebeker noted that the restriction for placing backfill against cast-in-place concrete structures that have not reached full strength needs to address minor structures in manner that is practical for field construction. David Fern said that it is unusual to have separate

pay items for excavation and backfill with structures (these are typically included with the structure). Bob noted that structure excavation and structure backfill would only be pay items when specifically indicated as such by the project Special Provisions or the Proposal. Bob requested any other comments be provided to him prior to the next meeting so that there could be a vote on the case. Members were requested to be prepared to vote on this case at the next meeting.

5. General Discussion:

a. Gordon Tyus handed out a list of MAG agency public works directors who are to receive the results of this year's approved case work. He requested that members review and provide him updates so that packet of changes is sent to the most appropriate agency person. Bob Herz noted that the Arizona League of Cities and Towns prepares an up-to-date listing of public works directors that could be used as a resource.

b. It was noted that September 6th is the last regularly scheduled committee meeting for this year, but the committee could meet on October 4th if an additional session was needed. The meeting room is has been scheduled for use by the supplements consolidation subcommittee at 1:30 pm on November 7th (the first Wednesday in November).

c. Members are encouraged to attend or send a representative to the September meeting to insure a quorum is present for voting.

6. Adjournment:

The meeting was adjourned at 3:55 p.m.