

May 25, 2007

TO: Members of the MAG Specifications and Details Committee  
FROM: Robert Herz, Maricopa County DOT, Chairman  
SUBJECT: MEETING NOTIFICATION AND TRANSMITTAL OF AGENDA

Wednesday, June 6, 2007 at 1:30 p.m.  
MAG Office, Second Floor, Cholla Room  
302 North First Avenue, Phoenix

The meeting of the MAG Specifications and Details Committee will be held at the place and time indicated above. The agenda for the meeting is provided below. **Please park in the garage under the building. Bring your ticket to the meeting, parking will be validated. For those using transit, the Regional Public Transportation Authority will provide transit tickets for your trip. For those using bicycles, please lock your bicycle in the bike rack in the garage.** Please call me at (602) 506-4760 if you have questions about the upcoming meeting.

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AGENDA

<u>ITEM</u>	<u>COMMITTEE ACTION REQUESTED</u>
1. <u>Call to Order</u>	1. No action required.
2. <u>Approval of May 2, 2007 Meeting Minutes</u>	2. Corrections and approval of May 2, 2007 minutes.
3. <u>2006 &amp; 2007 Cases</u>	3. Review of pending cases and submission of new cases for consideration.
4. <u>Report from the Inventory Working Group</u>	4. For information and discussion.
5. <u>General Discussion</u>	5. For information and discussion.
6. <u>Adjournment</u>	6. No action required.

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

May 2, 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.) |
| Bill Fay for David Fern, Chandler | * Jami Erickson, Phoenix (Water)     |
| Mark Weiner, Gilbert              | Gerald Wright, Queen Creek           |
| Tom Kaczmarowski, Glendale        | Rodney Ramos, Scottsdale             |
| * David Ramirez, Goodyear         | Don Moseley, Surprise                |
| Bob Herz, MCDOT, Chairman         | 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 Kandarlis, SRP, Vice Chairman     | Dale Phelan, NUCA            |
| Tom Kennedy for Don Cornelison,<br>ARPA |                              |

MAG ADMINISTRATIVE STAFF

Gordon Tyus

- \* Members not attending or represented by proxy.

GUESTS/VISITORS

John Shi, MCDOT  
Yugantha Perera, MCDOT  
Collin Howard, All American Precast

1. Call to Order

Chairman, Bob Herz, called the meeting to order at 1:32 p.m.

2. Approval of Minutes

The members reviewed the April 11, 2007 meeting minutes. Rodney Ramos introduced a motion to accept the minutes as written. Jesse Gonzalez 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 to eliminate the minimum fly ash and cement requirement. The committee had no discussion on this item.

4. 2007 Cases (new cases)

a. **Case 07-01A – Miscellaneous Corrections:** Dimension correction to Detail 535 catch basin type “F”. Collin Howard of All American Precast made a presentation on the manufacture of catch basin grates and frames. He noted that grates are difficult to remove when silt wedges between grates and frames, and a tighter tolerance may make removal more difficult. Rodney Ramos mentioned that field personnel have methods to loosen tight grates, but there needs to be limits to keep the differential distance in the space between grates and frames under ½-inch. After discussion, it was suggested that the detail show maximum frame opening and minimum grate width & length dimensions so that the space between grates and frames is no more than ½-inch. It was also noted that grate bars could be raised to restrict movement. Revisions should be prepared for review during the next meeting.

b. **Case 07-01B – Miscellaneous Corrections:** Drafting correction to Detail 222 single curb. The committee had no discussion on this item.

c. **Case 07-01C – Miscellaneous Corrections:** Typographic correction to Section 105.5 titled “Cooperation of Contractor”. The committee had no discussion on this item.

d. **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). Modified Section 321 and revised Section 710 were provided by Don Green. He noted that electronic and strike-out versions were available for review by members. Gordon Tyus mentioned that these could be downloaded from the MAG website. Don requested that written comments be provided due to the complexity of the revisions so that changes can be better understood. Tom Kaczmarowski stated that the revisions did not include superpave options presently used in Glendale for residential work and requested that these be included. The committee noted that there is a need to include options in standards to decrease agency supplements. Committee members were requested to review the modifications and provide written comments by the next meeting.

- e. **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 provided revised details that included more material and dimension information. Members noted that details need to be generic and inclusive for all manufacturers. Jeff Van Skike commented that use of PVC catch basins should not require new details, just a change in the standard specifications to allow use by agencies. There was also a discussion on whether the agency committee members should vote to continue discussions on this case if most agencies did not intend on allowing PVC catch basins. Rodney Ramos proposed that the details move forward to work out potential problems so that agencies who do decide to allow them do not need to revisit the issues being discussed. The sponsor was requested to continue making modifications and the committee would discuss this further during the next meeting.
- f. **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. Jesse Gonzalez noted that a detail showing the insulation installation for services was being drafted and would be available for the next meeting.
- g. **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 will bring a modified detail to the next meeting for discussion.
- h. **Case 07-06 – Revision to Section 104, Scope of Work:** Add order of precedence for contract documents and eliminate gender-specific wording. After discussion on the variations of type of special provisions with different agencies, members were requested to review their internal contract documents and bring to the next meeting their lists and orders of precedence to be included in the revision.
- i. **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 discussed with ADOT their frequency in modifying the rate adjustment factor and found that the factor has remained constant over the past 5 years. The rate adjustment factor remains constant unless a re-evaluation is requested. Bob recommended that the MAG section identify the ADOT rate since it is not readably available from any published source.
- j. **Case 07-08 – Revision to Section 615.2, Sewer Line Construction:** Gerald Wright requests clarification of language for pipe and grade tolerances. Presently the section gives trench bottom grade tolerances, but does not specify pipe flow line tolerances. Use of trench grade tolerances could result in pipe flow problems if pipe is set to the same grade ranges. Gerald will prepare proposed wording changes for the next meeting.
- k. **Case 07-09 – Revision to Detail 145, Safety Rail:** Bob Herz proposed adding a new note requiring calculations be performed for use of rail anchor types 1, 2 and 3. The rail detail is being used in the top of non-reinforced or singularly reinforced headwalls and

wingwalls where the anchorage fails due to concrete breakout. It was suggested that the anchorage details be revised to show embedded in reinforced concrete. Committee members were requested to review the proposed modifications and return with comments for the next meeting.

1. **Case 07-10 – Deletion of Obsolete Details:** It was noted that a number of detail types within MAG standards have become obsolete and have not been used for many years. It is proposed that a case be established to revise details to eliminate obsolete items. Two suggested changes include deletion of Type C redwood pavement terminations in Detail 201 and deletion of curb warning beacons in Detail 221. Committee members were requested to review the proposal and discuss during the next meeting.

5. General Discussion:

a. Jeff Van Skike noted that sidewalk ramp details may not be in compliance with ADA requirements and may need to be changed. The 3'-0" and 3'-6" wide ramp landings do not comply with ADA required dimensions. He also noted that various agencies have made required modifications in their supplements to bring them into compliance. After discussion it was noted that this would be a good example case to implement consultant study recommendations on reduction of supplements. There was also a discussion on how far truncated domes in sidewalks need to extend. The committee decided to review this as a case at the next meeting.

b. John Ashley questioned the committee on how it intended to implement the consultant recommendations on agency supplement reduction. It was mentioned that consulting engineers could be enlisted to help consolidate supplements into single MAG sections and details. After discussion it was proposed by John Ashely and seconded by Rodney Ramos that a subcommittee be established to review the consultant recommendations and develop a work plan that would prioritize sections and details for revision to reduce supplements. This proposal was approved unanimously by a voice vote. Subcommittee members are John Ashely, Jesse Gonzalez, Rodney Ramos, Brian Gallimore, Tom Kaczmarowski, David Fern and Paul Nebeker. The subcommittee will meet prior to the next committee meeting.

6. Adjournment:

The meeting was adjourned at 3:31 p.m.

## 2007 PROPOSED REVISIONS TO MAG SPECIFICATIONS AND DETAILS

CASE	DESCRIPTION	PROPOSED BY	MEMBER	SUBMITTAL DATE Last Revision	VOTE DATE	VOTE	
06-04	Reduce cement content requirement for RCP section 735.4 (C)	Chandler	David Fern	5/03/2006 8/04/2006			Yes No Abstain
07-01	Miscellaneous Bloopers Case A – Correct Catch Basin wall thickness in detail 535.	Mesa	Kelly Jensen	1/03/2007 4/11/2007		0 0 0	Yes No Abstain
07-01	Miscellaneous Bloopers Case B – Detail 222, Correct Type A formed height.	MCDOT	Bob Herz	2/07/2007 2/07/2007		0 0 0	Yes No Abstain
07-01	Miscellaneous Bloopers Case C – Section 105.5, Correct wording in first sentence.	Mesa	Kelly Jensen	2/07/2007 2/07/2007		0 0 0	Yes No Abstain
07-02	Revision/ Re-Write Section 710 & Section 321	ARPA	Don Green	2/07/2007 4/13/2007		0 0 0	Yes No Abstain
07-03	PVC Catch Basins - New Details 535-2, 535-3, 537-2, 539-2, 542-1 through 4, and 543-1 through 5.	NUCA	Dale Phelan	2/07/2007 5/02/2007		0 0 0	Yes No Abstain
07-04	Section 631.3.5 Service Taps – Revise dielectric insulator requirements.	Mesa	Kelly Jensen	2/07/2007 2/07/2007		0 0 0	Yes No Abstain
07-05	Detail 360 – Revise to allow restrained joints.	Mesa	Kelly Jensen	2/07/2007 2/07/2007		0 0 0	Yes No Abstain
07-06	Revision to Section 104 Scope of Work	MCDOT	Bob Herz	3/07/2007 3/07/2007		0 0 0	Yes No Abstain
07-07	Revision to Section 109 Measurements and Payments	MCDOT	Bob Herz	3/07/2007 3/07/2007		0 0 0	Yes No Abstain
07-08	Revision to Section 615 Sewer Line Construction – Clarify tolerances for pipe versus trench bottom.	Queen Creek	Gerald Wright	5/02/2007		0 0 0	Yes No Abstain

## 2007 PROPOSED REVISIONS TO MAG SPECIFICATIONS AND DETAILS

CASE	DESCRIPTION	PROPOSED BY	MEMBER	SUBMITTAL DATE Last Revision	VOTE DATE	VOTE
07-09	Detail 145, Safety Rail – Adding reinforcement requirement for anchor types 1, 2 and 3.	MCDOT	Bob Herz	5/02/2007 5/02/2007		0 0 0 Yes No Abstain
07-10	Deletion of Obsolete or Unused Details 1. Delete <b>Type ‘C’</b> from Detail 201 Pavement Section at Termination. 2. Delete the <b>Curb Warning Beacon</b> from Detail 221 Curb and Gutter	MCDOT	Bob Herz	5/02/2007 5/02/2007		0 0 0 Yes No Abstain
						Yes No Abstain

\* Case was approved with verbal modifications at time of voting.



**MARICOPA COUNTY**  
*Department of Transportation*

**MEMORANDUM**

**Date:** May 2, 2007

**To:** MAG Specifications and Details Committee

**From:** Robert Herz, MCDOT Representative

**Subject:** Safety Rail Detail 145

**Case 07- 09**

**PURPOSE:** Discourage improper use of the Safety Rail Detail 145.  
The rail detail is being used in the top of non-reinforced or singularly reinforced headwalls and wingwalls where the anchorage fails due to concrete breakout.

**REVISION:**

Add new note 6 to the detail notes:

6. The adequacy of Anchor Types 1, 2, and 3 is to be verified by calculations.



**MARICOPA COUNTY**  
***Department of Transportation***

**MEMORANDUM**

**Date:** May 2, 2007  
**To:** MAG Specifications and Details Committee  
**From:** Robert Herz, MCDOT Representative  
**Subject:** Deletion of Obsolete Details

**Case 07- 10**

**PURPOSE:** Delete unused or obsolete details.

**REVISION:**

1. Delete the Type C redwood header pavement termination from Detail 201 Pavement Section at Termination.
2. Delete the Curb Warning Beacon detail from Detail 221 Curb and Gutter.