

2011 PROPOSED REVISIONS TO MAG SPECIFICATIONS AND DETAILS SUMMARY

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(Updated information can be found on the website: <http://www.azmag.gov/Projects/Project.asp?CMSID=1055&CMSID2=1136>)

RECOMMENDATION SUMMARY OF THE MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD SPECIFICATIONS AND DETAILS COMMITTEE

October 21, 2011

Detailed information about each case is provided on the 2011 Specs and Details Cases Under Consideration page on the MAG website.

<http://www.azmag.gov/Projects/Project.asp?CMSID=1136>

Most case files include a cover memo listing the purpose of each case and proposed changes. The final version of the working cases are posted, which often include the strike-through changes and other discussion points.

Further discussion on the cases is available in the committee meeting minutes which are posted separately for each meeting. Links can be found on the Standard Specifications & Details Committee page.

<http://www.azmag.gov/Committees/Committee.asp?CMSID=1055>

Final summary materials for review of the 2012 Edition of the MAG Specifications and Details for Public Works Construction manual including detailed attendance and voting records are posted on the Specifications & Details Public Works Directors Review Deadline page.

<http://www.azmag.gov/Events/Event.asp?CMSID=3905>



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CASE	DESCRIPTION	PROPOSED BY	MEMBER	SUBMITTAL DATE Last Revision	VOTE DATE	VOTE	
10-05	Case 10-05: Revise FOREWORD to clarify use of the MAG Specifications and Details for Public Works Construction document.	Peoria/ SRP	J. Gonzales Peter Kandaris	03/03/2010 08/03/2011	Approved 09/07/2011	13 0 0 2	Yes No Abstain Not Present
Summary	This case proposed modifying the foreword to the MAG Specifications and Details book, to clarify its limited use for public works construction in the right-of-way. It provided additional caveats for using the MAG specifications and details in private construction projects, and highlighted the need for review by professional engineers. In 2011 Peter Kandaris took over sponsorship of the case. Additional minor edits including some word-smithing updating the link to the MAG website were included.						
10-08	Case 10-08: Re-write Section 717 ASPHALT-RUBBER	MCDOT	Bob Herz	05/05/2010 02/18/2011	Withdrawn 07/13/2011	0 0 0 0	Yes No Abstain Not Present
Summary	Maricopa County presented this case to re-write the specification on asphalt-rubber to match MCDOT's current requirements. During the review other agencies were requested to indicate how their requirements differed so that the specification could be modified to accommodate the needs of all agencies. In 2011, the Asphalt Working Group proposed additional changes to Section 717 in Case 11-22. Case 10-08 was withdrawn and incorporated in the new, more comprehensive case.						
10-12	Case 10-12: New Section 361 – Shallow Depth Fiber Optic Micro-Conduit Installation.	Scottsdale	Rod Ramos	05/05/2010 02/02/2011	Withdrawn 05/04/2011	0 0 0 0	Yes No Abstain Not Present
Summary	This case was introduced to add a new section specifying the process for installation of underground fiber optic micro-conduit telecommunications facilities within the public right of way. The sponsor provided sample specifications and details from a private engineering company as an example. The details showed a preferred location for the micro-trench, and the specifications described the process of making a saw cut, installing the conduit and filling the trench with a slurry grout, and capping with an asphalt sealant. Since several agencies voiced their opposition to allowing shallow installation of utilities, the sponsor considered scaling back the case to crack sealing applications. This case was later withdrawn because Case 11-24 was proposed to create a new crack sealing specification.						

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CASE	DESCRIPTION	PROPOSED BY	MEMBER	SUBMITTAL DATE Last Revision	VOTE DATE	VOTE	
11-01	Case 11-01: Miscellaneous Corrections. A. Correct typographical errors in Table 711-1. B. Correct typographical error in Table 705-1. C. Correct errors in Detail 212. D. Correct errors in Detail 262. E. Correct references in Sections 603 and 738. F. Change “plaster” to “mortar” in Section 625 and Details 421, 422, 501-1 and 501-2. G. Update references to deleted Detail 190.	MCDOT/ SRP ARPA	Bob Herz Peter Kandaris Jeff Hearne	01/05/2011 09/07/2011	Approved 09/07/2011	13 0 0 2	Yes No Abstain Not Present
Summary	The miscellaneous corrections cases gather the minor typographic, reference, and drafting errors into one case, since they tend to be straight-forward and do not require a great deal of discussion. Cases A and B fix typographic errors. Cases C, E, and G correct references that were incorrect. Case D made minor drafting changes to the alley entrance detail to make it ADA compliant. Case F changed references of plaster to mortar, in both specifications and details since plaster was removed from the materials section.						
11-02	Case 11-02: Add an Asphalt Pavement Safety Edge option to Detail 201.	MCDOT	Bob Herz	01/05/2011 04/06/2011	Carry forward to 2012	0 0 0 0	Yes No Abstain Not Present
Summary	Maricopa County proposed modifying Detail 201 to show a sloped safety edge under the shoulder based on FHWA guidelines. The case also would add a new sub-section 321.8.8 Safety Edge. Discussions included how to best get compaction on the sloped edge, and methods of construction using multiple lifts. The sponsor wanted to add details for both new construction and resurfacing, as well as get additional feedback from agencies, so the case was deferred to continue work in 2012.						
11-03	Case 11-03: Replace cadmium plated bolts referenced in Section 610.13 with zinc plated bolts as described in ASTM-B633.	Peoria	Jesse Gonzales/ Paul Nebeker	02/02/2011 07/13/2011	Carry forward to 2012	0 0 0 0	Yes No Abstain Not Present
Summary	Due to the expense and environmental concerns of cadmium bolts, the case was proposed to replace references to them with zinc plated bolts. The Phoenix representative said they use stainless steel bolts, and suggested adding it as an alternative. Peoria presented a letter recommending cadmium bolts be retained. Paul Nebeker agreed to take over the case for future work in 2012, with the goal of allowing different options in addition to the cadmium bolts currently required.						

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11-04	Case 11-04: Replace reference to MAG Detail 190 in MAG Section 301 with reference to Arizona standards. Delete MAG Detail 190.	OROW WG/ SRP	Peter Kandarlis	03/02/2011 05/23/2011	Approved 08/03/2011	10 0 1 4	Yes No Abstain Not Present
Summary	MAG Detail 190, "Rock Correction Procedure for Maximum Density Determination," is not a construction detail, but a design guide for use by quality control technicians. The procedure does not belong in a construction specification. References to Detail 190 were replaced by the standard Arizona rock correction method, ARIZ-227c. This abbreviation and the Arizona Test Method were added as entries in Section 101. Detail 190 was deleted.						
11-05	Case 11-05: Move MAG Section 225 Water Requirements into MAG Section 104.1.3.	OROW WG/ SRP	Peter Kandarlis	03/02/2011 05/04/2011	Approved 07/13/2011	10 0 0 5	Yes No Abstain Not Present
Summary	MAG Section 225, "Watering," provides no technical guidance for the performance of work and is general in scope. This case moved all of MAG 225 to MAG Section 104.1.3 of the General Conditions chapter. The last paragraph in this section was modified to read as follows: The cost of watering will be included in the proposal price bid for the construction operation to which such watering is incidental or appurtenant. Section 225 was deleted.						
11-06	Case 11-06: Remove sections and details of the MAG specifications that are no longer used or refer to outdated technologies.	OROW WG/ Buckeye	Scott Zipprich	03/02/2011 09/07/2011	Approved 09/07/2011	13 0 0 2	Yes No Abstain Not Present
Summary	Based on a review by the outside right-of-way working group, a list of unused or outdated specifications and details was developed. Based on the approval of this case the following sections were removed: 313: Bituminous Treated Base Course, 323: Heater Remix Resurfacing, 341: Terrazzo Sidewalks, 501: Driving Piles, 780: Timber Piles, 781: Steel Piles, 782: Concrete Piles, 785: Steel Castings and 786: Bronze Casings. The case also removed the sample forms and contracts since agencies have developed their own. The details that were deleted included: Steel Guard Rail Details 135-1 thru 135-4 since they are superseded by MCDOT and ADOT standards; Detail 170: Typical Runway or Taxiway Edge Lighting and Detail 402: Encased Pipe for Canal Crossing, since they are not used; and Alley Entrance Details 260 and 261 since they are not ADA compliant.						
11-07	Case 11-07: Revisions to Section 327 - Hot In-Place Recycling.	AGC/ Asphalt WG	Jeff Benedict	05/04/2011 05/13/2011	Approved 08/03/2011	9 0 2 4	Yes No Abstain Not Present
Summary	The purpose of the case was to update Section 327 with clear limits of its use and scope. The depth of use is now clear, a reference was fixed and other miscellaneous typos were corrected. This was a minor change to the current standard.						

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11-08	Case 11-08: Revise Section 711 Paving Asphalt to update performance tables and reference AASHTO standards.	AGC/ Asphalt WG	Jeff Benedict	05/04/2011 07/13/2011	Approved 08/03/2011	10 0 1 4	Yes No Abstain Not Present
Summary	The purpose of this case was to bring Section 711 Paving Asphalt into compliance with current ASTM and AASHTO specifications. Revisions included adding two binders to Table 711-1, including one heavier (PG76-16) and one softer (PG 58-22). The PAV temperatures were more clearly defined and other minor corrections, such as revisions to the test procedures, were included.						
11-09	Case 11-09: Preservative Seal for Asphalt Concrete – Revise Sections 334 and 718.	AGC/ Asphalt WG	Jeff Benedict	05/04/2011 08/29/2011	Approved 09/07/2011	11 0 2 2	Yes No Abstain Not Present
Summary	To bring Sections 334 and 718 into current practice, the preservative seal specifications were updated. Current products were added including: rejuvenating emulsion, petroleum hydrocarbon emulsion, TRMSS asphalt sealer, and acrylic polymer emulsion. The test methods and requirements (Table 718-1) was thoroughly updated with current standards and appropriate ASTM and AASHTO references.						
11-10	Case 11-10: Curb Ramp Modification for Radial Installations – Create new Detail 234. Revise details 235-1, 235-2 and 235-3.	MCDOT	Bob Herz	05/04/2011 08/10/2011	Approved 09/07/2011	13 0 0 2	Yes No Abstain Not Present
Summary	To eliminate concrete spalling that may occur in the narrow circular segment between the back of curb and the detectable warnings for curb ramps, a new Detail 234 was created. This detail has the curb opening placement continue back to the detectable warning, creating a straight line, so filling in the gap between the radial curb and the warning is no longer necessary. The case also shows the curb modification on type A, B, and C Curb Ramps as shown in Details 235-1, 235-2 and 235-3.						
11-11	Case 11-11: Superseded ASTM Specifications: A. Nuclear Density Testing of Soil B. Section 772 Chain Link Fence	OROW WG/ SRP	Peter Kandararis	05/04/2011 07/13/2011	Approved 09/07/2011	13 0 0 2	Yes No Abstain Not Present
Summary	This case updates outdated ASTM references. The changes include: A. The Nuclear Density Testing of Soil (ASTM D3017 and D2922) have been replaced with ASTM D6938 in seven locations. B. The ASTM A569 reference in Section 772 Chain Link Fence has been superseded by ASTM A1011. Additional outdated ASTM references will be addressed in future cases.						

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11-12	Case 11-12: Modifications to Regulatory Requirements, MAG 107.	OROW WG/ SRP	Peter Kandarlis	05/04/2011	Carry forward to 2012	0 0 0 0	Yes No Abstain Not Present
Summary	MAG standards are absent of requirements for native Arizona plants. Rules are provided in ARS Title 3, Chapter 7 and should be referenced in MAG Section 107.1. MAG 107.1(A) currently references ARS 23-373, which no longer exists. A new reference is needed (possibly ARS 23-425 and/or a statute within ARS 34). Agencies were asked to consult their legal departments to determine the most appropriate revised reference. This case was carried forward to 2012 to allow time to research this issue.						
11-13	Case 11-13: Replace Manhole Frame and Cover Details 423, 424 with new updated versions: 423-1, 423-2, 424-1, and 424-2	Water/Sewer WG/ Buckeye	Scott Zipprich	06/01/2011 10/04/2011	Approved 10/05/2011	13 0 0 2	Yes No Abstain Not Present
Summary	Current MAG Details 423 and 424 are dimensioned based on class 30 cast iron; however, the lighter class 35 cast iron is used currently in the manufacture of all manhole frame and covers. This case updates the 24" and 30" manhole frame and covers to match those currently being supplied. The details were revised to reduce the number of dimensions allowing manufacturers more freedom in their design, since the details added ASTM loading requirements. Industry representatives provided assistance in developing the new details which included the option for an agency logo, and a gasket on the water-tight versions. The pressure manhole frame and cover revisions were removed from the final case, and will likely be submitted as a new case in 2012.						
11-14	Case 11-14: Update Fire Hydrant Detail 360-1, and add Wet Barrel Option (360-2) and Details (360-3).	Water/Sewer WG/ Buckeye	Scott Zipprich	07/13/2011	Carry forward to 2012	0 0 0 0	Yes No Abstain Not Present
Summary	This case from the water/sewer working group proposes changes to the fire hydrant detail (360-1) to update it and add options that would reduce the number of agency supplements. It also added a new detail for a wet barrel hydrant option (360-2) that is currently used in Avondale and Peoria. Some revisions included locations of the concrete pad, the minimum height of the connector, and options for adjustable offsets and restraint systems. A third drawing (360-3) showed more details, the plan view and clearances. Additional review by the working group and agency fire departments is needed, so this case was recommended to be carried forward to 2012.						
11-15	Case 11-15: Modify Residential Speed Hump: Detail 210.	Chandler	Warren White	07/13/2011 08/11/2011	Approved 09/07/2011	12 0 1 2	Yes No Abstain Not Present
Summary	This case proposed updating the speed hump detail to be compliant with MUTCD marking requirements. The current MAG detail is not compliant, so the sponsor provided a new case with the proper markings. It also added a section view for a hump designed for a 14' wide road in addition to the 12' section, and other changes to incorporate Chandler's supplement. After some discussion about unresolved issues of the additional changes, it was decided to update just the current 12' speed hump as shown in MAG Detail 210. Additional revisions may be submitted as a new case in 2012.						

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11-16	Case 11-16: Modify Section 415: Steel Flexible Metal Guardrail.	OROW WG/ SRP	Peter Kandararis	07/13/2011	Carry forward to 2012	0 0 0 0	Yes No Abstain Not Present
Summary	Existing MAG guardrail standards (Section 415 and Details 135-1 thru 4) are outdated and generally not followed by MAG agencies. Some details may not be safe to use. The guardrail details were deleted as part of Case 11-06. Maricopa County has a supplement to Section 415 that references and/or modifies guardrails used by the Arizona Department of Transportation. Due to this year's heavy case load, this case was deferred to 2012 to allow time to incorporate the county supplement and for other agencies to comment on whether to use the ADOT details, Maricopa County's modifications, or to make other modifications.						
11-17	Case 11-17: Revise Section 520: Steel and Aluminum Handrails.	OROW WG/ SRP	Peter Kandararis	07/13/2011	Approved 09/07/2011	13 0 0 2	Yes No Abstain Not Present
Summary	The existing section allows aluminum handrails, but provides no requirements for use of aluminum. (It has specifications for steel only.) The welding standard is nearly 25 years out of date. The revisions added material requirements for aluminum handrails to Section 520.2, and updated the welding reference to current standards (AASHTO/AWS Standard D1.5, Bridge Welding Code).						
11-18	Case 11-18: Update Section 350: Removal of Existing Improvements.	OROW WG/ SRP	Peter Kandararis	07/13/2011	Carry forward to 2012	0 0 0 0	Yes No Abstain Not Present
Summary	Section 350 needs to be updated to include detailed information on handling utilities when renovations occur within the right-of-way and backfill of voids left from removals where structures are to be installed (manholes, vaults, etc.). Additionally, payment for removals should delineate specific removal items to insure that the scope is understood during the bid process. There was some question as to whether the default position in the specification should be to remove existing improvements, or leave them in place unless directed to remove them. Comments and feedback from agencies, and additional revisions are anticipated, so this case was recommended to be carried forward.						
11-19	Case 11-19: Modify Section 340.2: Detectable Warnings.	OROW WG/ SRP	Peter Kandararis w/ N. Vescio	07/13/2011 10/05/2011	Approved 10/05/2011	12 0 0 3	Yes No Abstain Not Present
Summary	This case, proposed by the outside right-of-way working group, was submitted to provide more guidance and performance specifications for detectable warning systems. Initially the case included performance specifications for materials based on concrete systems. Since other types of materials can be used, the performance specifications in materials section was deferred for further work, and the case focused on updating the specifications as defined by the American with Disabilities Act Accessibilities Guidelines. The definition of detectable warnings as well as new sections on color and contrast, materials, and attachment systems were added. Final clarification of the attachment specifications, and final approval by the local jurisdictional agencies was included.						

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11-20	Case 11-20: Update MAG specifications for brass and bronze water line construction materials to meet federal low lead standards.	Chandler	Warren White	07/13/2011 08/22/2011	Approved 09/07/2011	12 0 1 2	Yes No Abstain Not Present
Summary	MAG specifications (610, 630, 631, 754, 755) referencing brass and bronze water line construction materials, were updated to meet new federal low lead standards. (NSF 61-8 Annex F&G (effective July 1, 2012) and the new Federal Law S. 3874.) Specifications for materials included the language: "Service material containing brass or bronze must comply with the current NSF 61-8 standards at the time the project begins. All brass or bronze service material must meet the current AWWA C-800 standards. Any project used in water line construction containing brass or bronze that comes in contact with potable water shall meet current NSF standards and Federal law."						
11-21	Case 11-21: Add new Section 623: Special Bedding for Mainline Storm Drain Pipe.	Phoenix	Syd Anderson	07/13/2011 09/26/2011	Carry forward to 2012	0 0 0 0	Yes No Abstain Not Present
Summary	This case would incorporate City of Phoenix supplement 623 into the MAG standards. This supplement also was revised to specify the ½ sack CLSM as defined in Section 728 instead of the slurry currently in the supplement. There was discussion on the purpose of the encasing the pipe in CLSM, problems with ABC damaging pipe, the "floating" of pipe, and compaction issues. HDPE pipe manufacturers provided letters in opposition to this case. The case was carried forward to allow additional revisions and to address industry concerns.						
11-22	Case 11-22: Revise Sections 325 and 717: Asphalt Rubber Specifications.	AGC/ Asphalt WG	Jeff Benedict	07/13/2011 09/07/2011	Approved 10/05/2011	13 0 0 2	Yes No Abstain Not Present
Summary	This case developed by the asphalt working group thoroughly updated Sections 325 and 717 to meet current industry practice. It separated material and construction methods and gave guidance to rubber specifications. Revisions included updating required equipment and density procedures, clarifying compaction procedures, and updating rubber materials and physical properties specifications. The case provided a complete rewrite of the asphalt rubber specifications, and incorporated supplemental specifications from Maricopa County and the City of Phoenix.						
11-23	Case 11-23: Revise Section 321: Asphalt Concrete Pavement	AGC/ Asphalt WG	Jeff Benedict	07/13/2011 10/05/2011	Approved 10/05/2011	13 0 0 2	Yes No Abstain Not Present
Summary	Major revisions to Section 321 were submitted to address compaction requirements. Revisions included updating allowable self-directed target changes, specifying asphalt temperature for pavement fabric, adding requirements for asphalt binder and air voids, and changing the sample frequency for cylinders. This last change was modified to include samples taken for each residential street and/or traffic lane. Gradation acceptance tables for Marshall mixes and gyratory mixes were separated to provide clearer guidance. Final revisions were made based on comments from Tempe and discussions during the October meeting. A thorough summary of changes is provided in the online case file.						

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11-24	Case 11-24: Add new Section 337: Crack Sealing	AGC/ Asphalt WG	Jeff Benedict	07/13/2011 10/05/2011	Approved 10/05/2011	12 0 1 2	Yes No Abstain Not Present
Summary	MAG currently does not have any specifications for crack sealing. The purpose of the case was to add a new Section 337 Crack Sealing with clear limits of its use and scope. Crafcoc, a major vendor, was consulted and helped write the specification. It was reviewed by the asphalt working group and agency members. Modifications to the draft specification included removing references to blowing, replacing it with vacuuming, and removing references to crack filling.						
11-25	Case 11-25: Update Section 713: Emulsified Asphalt Materials to include current products and standards.	AGC/ Asphalt WG	Jeff Benedict	07/13/2011	Approved 09/07/2011	13 0 0 2	Yes No Abstain Not Present
Summary	This case updated Section 713 to meet current industry practice. A quick setting PMQSH product that is used in slurry applications was added. Slurry producers and emulsion manufacturers reviewed the changes in the asphalt working group process. Minor changes to the specification table 713-1 were made to bring it up to current standards.						
11-26	Case 11-26: Revise Section 332 and 715: Slurry Seal Material and Application to include current practice and technologies.	AGC/ Asphalt WG	Jeff Benedict	07/13/2011	Approved 09/07/2011	13 0 0 2	Yes No Abstain Not Present
Summary	This case moved material items into Section 715 and updated the applications Section 332 to match current practice and technologies. The case moved the job mix formula from 332 (in whole) to 715, cleaned up language and updated Section 715 to allow the use of the polymer modified emulsion binders. This is a major change to both sections, although the PMQSH is the only addition. Tables are now more clear and up to date.						
11-27	Case 11-27: Update Section 335: Hot Asphalt Rubber Seal (Chip) to include current practice and technologies including blending of rubber binder.	AGC/ Asphalt WG	Jeff Benedict	07/13/2011	Approved 09/07/2011	12 0 1 2	Yes No Abstain Not Present
Summary	The purpose of the case was to update the specification to match current practice and technologies. The case included the elimination of extender oils and the addition of current practices of blending the rubber binder. Some terminology was changed to clarify the specifications.						
11-28	Case 11-28: Revise Section 716: Cover Material to include a better description of “pre-coat” and method. Update references as needed.	AGC/ Asphalt WG	Jeff Benedict	07/13/2011	Approved 09/07/2011	11 0 2 2	Yes No Abstain Not Present
Summary	This case made minor revisions including a better description of “pre-coat” and method. The aggregate materials information was moved from 701 and included in 716. Other sections were updated or eliminated as needed. Screens size and passing requirements remain unchanged.						

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11-29	Case 11-29: Revise Section 701. Change title from Rock, Gravel and Sand to Aggregates. Move materials to appropriate sections, and clarify types of aggregates. Update all references to Section 701.	AGC/ Materials WG	Brian Gallimore	07/13/2011 08/22/2011	Approved 10/05/2011	13 0 0 2	Yes No Abstain Not Present
Summary	The purpose of the changes were to consolidate general aggregate material requirements within Section 701, move specific material requirements to appropriate material sections, remove archaic test methods or processes that are not longer practiced by the industry, and replace subjective material requirements with accepted test methods. Major changes include: describing aggregates using ASTM definitions and specifications; move LA abrasion test requirements to specific sections; allow recycled materials upon approval of the Engineer; and move sand specifications to the specific material section in which the sand is used (i.e. asphalt, concrete, CLSM and mortar). The case also made ASTM and AASHTO references more uniform, and updated references to parts of Section 701 that have been moved. A detailed summary and road map of changes is included in the online case file.						
11-30	Case 11-30: Update Section 702: Base Material. Moved ABC material to Section 310. Revise Section 310: Untreated Base Course. Revise for current standards. Update all references to Section 702.	AGC/ Materials WG	Brian Gallimore	07/13/2011 08/23/2011	Carry forward to 2012	0 0 0 0	Yes No Abstain Not Present
Summary	The purpose of this case is to simplify base material requirements with physical properties shown in a single table, delete information that is redundant to Section 701 (re-defining general aggregate requirements), and remove language that is vague and cannot be enforced through objective tests. This case also updates related Section 310. Major changes include: (a) Delete references to specific aggregate materials such as decomposed granite, slag, etc., as these should be covered by Section 701 requirements. (b) Add functional descriptions for ABC and Select Material. (c) Consolidate all material requirements into Table 702-1. This includes PI, fractured face and LA abrasion testing. (d) Fractured face for ABC was changed from 50% to 30% to match ADOT requirements. (e) Change from 1-1/4" sieve to 1" sieve in Table 702-1 as plants do not have the capability to separate at 1-1/4" and modify the gradation requirements. (f) Include a referee test for aggregates that exceed a PI of 5. A white paper was prepared by the materials working group to give the rationale for using an R-value of 70 if the PI is too high (to be provided to the committee at the next meeting). Due to the large case load in 2011, the committee recommended this case be carried over to 2012 to allow more time for review and comments.						
11-31	Case 11-31: Revise Section 703: Riprap. Indicate proper aggregate size and testing methods.	AGC/ Materials WG	Brian Gallimore	07/13/2011 08/23/2011	Approved 10/05/2011	13 0 0 2	Yes No Abstain Not Present
Summary	The purpose of the Riprap case was to simplify the language and include the LA abrasion test requirement. Major changes to 703 included: changing the term "stone" to "aggregate" to be consistent with other MAG sections; including engineering review of submittals and material source, as is done with other materials; placing all material physical requirements in Section 703.2; improving definition for aggregate shape; including appropriate ASTM test methods; and updating references as necessary. Revisions to Section 220 were done to be compatible with revisions to Section 701 and to update the grout material requirements.						

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11-32	Case 11-32: Modify Section 309: Lime Slurry Stabilization to include the use of hydrated lime, add mix criteria, testing procedures and payment.	AGC/ Materials WG	Brian Gallimore	07/13/2011 10/05/2011	Approved 10/05/2011	13 0 0 2	Yes No Abstain Not Present
Summary	Case 11-32 proposed changing Section 309 to include hydrated lime, so the specification can not only be used for slurry, but also used for soil modifications. Revisions included revising the title, adding mix design criteria, adding more testing procedures, specifying equipment used to spread the material more accurately, being less prescriptive on compaction equipment, and modifying the payment for lime materials section. Maricopa County modified the draft to not allow the direct use of quicklime on soil. Other minor typographic corrections were included.						
11-33	Case 11-33: Revise Section 311: Soil Cement Base Course. Clarify and update the construction methods of cement treated subgrade.	AGC/ Materials WG	Brian Gallimore	07/13/2011 10/05/2011	Approved 10/05/2011	11 0 0 4	Yes No Abstain Not Present
Summary	The Soil Cement Base Course specification was revised to clarify and update the construction methods of cement treated subgrade. This included updates to: the title, the spreading of cement, and the testing criteria for moisture and density. The case also adds a thickness deficiency procedure, and removes bituminous curing seal due to environmental issues. More revisions to the moisture testing criteria were discussed since a nuclear gage test alone could give a false reading. Referencing AASHTO test T-394 instead of T-217 would allow a more accurate moisture content measure. This represents a relatively major change to the MAG specification.						
11-34	Case 11-34: Revise Section 312: Cement Treated Base to add provisions for measuring moisture content and update density testing procedures.	AGC/ Materials WG	Brian Gallimore	07/13/2011 10/05/2011	Approved 10/05/2011	11 0 0 4	Yes No Abstain Not Present
Summary	The Cement Treated Base specification was also updated to improve testing procedures, and add provisions for measuring moisture content. This case also made modifications to Section 705 Portland Cement Treated Base to update the mix designs and reference Arizona Test Methods. Other minor corrections and reference updates were included.						