

2013 PROPOSED REVISIONS TO MAG SPECIFICATIONS AND DETAILS SUMMARY

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

October 9, 2013

Detailed information about each case is provided on the 2013 Specs and Details Cases Under Consideration page on the MAG website.

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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.

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Final summary materials for review of the 2014 Revision to 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.

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CASE	DESCRIPTION	PROPOSED BY	MEMBER	SUBMITTAL DATE Last Revision	VOTE DATE	VOTE	
	CARRY FORWARD CASES FROM 2012						
12-12	Case 12-12: New Section 739 – Steel Reinforced Polyethylene Pipe (SRPE).	Scottsdale	Rod Ramos	07/11/2012 07/10/2013	Approved 07/10/2013	10 0 3	Yes No Abstain
Summary	<p>This case was introduced to allow Steel Reinforced Polyethylene (SRPE) Pipe as an approved material. The new section is based on a modification of the existing Section 738 High Density Polyethylene Pipe. The case was reviewed by the Water/Sewer Working Group as well as the main committee. Industry representatives provided technical information on the material and appropriate ASTM and AASHTO specifications. Some discussion included whether to approve a new material while the installation specifications were still being updated, as well as questions about the maximum allowable size. The committee approved the case without specifying a maximum diameter, but let the maximum diameter be controlled by the ASTM specification. The pipe design is to be in conformance with Section 12 of the AASHTO LRFD Bridge Design Specifications.</p>						
	NEW CASES FOR 2013						
13-01	<p>Case 13-01: Miscellaneous Corrections:</p> <p>A. Revise title of Section 324</p> <p>B. Section 505.6.3.3 (4) Typing error correction</p> <p>C. Section 735.4 (D) Delete obsolete reference to AASHTO M-315</p> <p>D. Correction to Detail 501-5</p> <p>E. Correct typo in Section 311 Title</p> <p>F. Remove reference to Section 702.4 in Subsection 795.8.4 Decomposed Granite</p> <p>G. Revise Section 107.4 to change the Arizona Revised Statue reference 41-846 to 41-865.</p> <p>H. Remove the word “AND” in the title of Section 725</p> <p>I. Section 108.8 Change “or” to “and” in first line.</p> <p>J. Add missing superscript in 301.3 and correct typo in 321.14.3.</p> <p>K. Correct errors in Detail 391-1.</p> <p>L. Change the word “finished” to “furnished” in the second paragraph of 735.1.</p>	MCDOT	<p>Bob Herz</p> <p>Peter Kandararis</p> <p>Jeff Hearne</p> <p>Rod Ramos</p>	01/02/2012 07/10/2013	Approved 08/07/2013	13 0 0	Yes No Abstain
Summary	<p>This case was used as a repository for minor updates such as typographic errors or minor drafting corrections. The changes are listed in parts A-L above.</p>						

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CASE	DESCRIPTION	PROPOSED BY	MEMBER	SUBMITTAL DATE Last Revision	VOTE DATE	VOTE	
13-02	Case 13-02: Revision to Section 337 CRACK SEALING to obtain compatibility with Maricopa County requirements.	MCDOT	Bob Herz	01/02/2012 04/04/2013	Approved 05/01/2013	14 0 0	Yes No Abstain
Summary	<p>The purpose of the case was to obtain compatibility with Maricopa County requirements. Primary discussion items included the range of crack sizes to be sealed: ¼”-1” or ⅛” - 1½” and the Brookfield Viscosity requirement. Added Flash Point (ASTM D92) criteria. Revised sequence of subsections to correspond with the sequence of occurrence during construction. Moved subsections to better organize and restructure specification. Removed design related content and removed metric units. Added new requirements concerning weather and added a new section to address unacceptable work.</p> <p>There was discussion on different methods of measurement and payment, such as by pound of material, linear foot, etc. Several options were provided based on the preference of the agency.</p>						
13-03	Case 13-03: Revision to Section 321.8.6 Asphalt Concrete Overlay to obtain uniformity with Maricopa County requirements.	MCDOT	Bob Herz	02/06/2013 04/04/2013	Approved 05/01/2013	14 0 0	Yes No Abstain
Summary	<p>The purpose of the case was to obtain uniformity with Maricopa County requirements. Revisions are shown below:</p> <p>Removed mix design restrictions from the specification since asphalt overlay mix design requirements should be identified by project contract documents not within a general construction specification. Pavement repair was made a separate pay item since pavement removal and patching are separate operations and pavement repair requirements can vary greatly between different overlay projects. Revised the pavement surface preparation items to have surface cleaning as a separately identified requirement immediately preceding the tack coat requirements. Added the requirement for shoulder adjustment when overlaying uncurbed roadways.</p>						
13-04	Case 13-04: Revision to Detail 120 SURVEY MARKER.	MCDOT	Bob Herz	02/06/2013 04/08/2013	Approved 05/01/2013	14 0 0	Yes No Abstain
Summary	<p>The purpose of the case was to revise Detail 120 Survey Marker to prevent installation of survey markers that do not comply with requirements of ARS 33-103. Revisions included replacing the detail for Type A monument with Type E, and replacing the detail for Type B monument with Type D. The previous survey marker details, 120-1 and 120-2, were replaced with a single Detail 120 that combines all requirements. The Type B detail was revised to show installation requirements both in asphalt and in the ground.</p>						

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13-05	Case 13-05: New Section 740 Polypropylene Pipe and Fittings for Gravity Storm Drain and Sanitary Sewer.	Chandler	Warren White	02/06/2013 09/04/2013	Approved 09/04/2013	13 0 1	Yes No Abstain
Summary	This case was introduced to allow Polypropylene Pipe as an approved material. Much like Case 12-12, the new section is based on a modification of Section 738 High Density Polyethylene Pipe. The case was reviewed by the Water/Sewer Working Group as well as the main committee. Industry representatives provided technical information on the material, and the format followed one similar to that of Case 12-12. Other updates made during development included: incorporating references to installation specs in 603, 615, and 618; updating specs for gaskets and water stops to reflect ASTM standards; and revising the certification subsection to reflect ASTM requirements.						
13-06	Case 13-06: Modify Part 600 title to include Storm Drain and Irrigation.	Phoenix	Jami Erickson	03/06/2013 04/04/2013	Approved 05/01/2013	13 0 0	Yes No Abstain
Summary	This case noted that Part 600 currently called "Water and Sewer" did not adequately cover the major areas of the specification. Adding "Storm Drain and Irrigation" helped to better describe this part of the specification, so the new title "Water, Sewer, Storm Drain, and Irrigation" will be shown on the Part 600 title page, table of contents pages, and division tab.						
13-07	Case 13-07: Revisions to Detail 201 ASPHALT PAVEMENT EDGE DETAILS. Correct miscellaneous errors and change the Type B thickened edge depth dimension from "8 inch minimum" to "8 inches."	MCDOT	Bob Herz	04/03/2013	Approved 06/05/2013	14 0 0	Yes No Abstain
Summary	<p>The purpose was to correct miscellaneous errors and change the Type B thickened edge depth dimension from "8 inch minimum" to "8 inches". Revisions are shown below:</p> <ol style="list-style-type: none"> 1. Correct title shown in the index to match the detail title. This is a miscellaneous correction. 2. Type A – Delete an erroneous miscellaneous 8" dimension. This is a miscellaneous correction. 3. Type B – Delete "MIN." from the 8" depth shown. This is a change from the existing detail. 						

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CASE	DESCRIPTION	PROPOSED BY	MEMBER	SUBMITTAL DATE Last Revision	VOTE DATE	VOTE	
13-08	Case 13-08: Revision to Section 321.8.8 Thickened Edge. Eliminate references to 'base course' to clarify the surface being referenced.	MCDOT	Bob Herz	04/03/2013 07/10/2013	Approved 08/07/2013	13 0 0	Yes No Abstain
Summary	<p>The purpose of Case 13-08 was to eliminate references to 'base course', to clarify the surface being referenced, increase the depth of asphalt thickened edge that can be placed with the asphalt pavement, and to delete an unnecessary contractor submittal. The proposed modified specification in final form:</p> <p>321.8.8 Thickened Edge: When the depth of the thickened edge extends four inches or more below the bottom of the asphalt pavement, the portion of the thickened edge extending below the asphalt pavement shall be placed and compacted prior to placement of the asphalt pavement. Placement of tack coat on the surface of the compacted thickened edge asphalt may be omitted when additional asphalt pavement is placed on the same day and the Engineer agrees that the surface of the thickened edge asphalt has remained clean. When the depth of the thickened edge extends less than four inches below the bottom of the asphalt pavement, the portion below the asphalt pavement may be placed and compacted with the asphalt pavement in a single operation.</p>						
13-09	Case 13-09: Revision to Section 321 Asphalt Penalty Tables based on City of Mesa Supplements.	Mesa/ Asphalt WG	Bob Draper	04/03/2013 08/12/2013	Approved 09/04/2013	14 0 0	Yes No Abstain
Summary	<p>The purpose of the case was to update the asphalt penalty tables to more realistically reflect the costs associated with repair and future maintenance of the asphalt paving. This case was reviewed by the Asphalt Working Group. Tables 321-4, 321-5 and 321-8 were updated to clarify when removal, corrective actions and penalties were to occur. For Table 321-4 Asphalt Binder Content, the penalties stayed the same, but the table was updated to show deviations both above and below the permitted range. For Table 321-5 Laboratory Voids, the penalties doubled to better reflect today's costs. For Table 321-8 Pavement Density, penalties were also increased, but categories for the limits of air voids were modified and included low air voids as well. The option of performing an Engineering Analysis was maintained in certain circumstances.</p>						
13-10	Case 13-10: Revision to Section 301.7 (Subgrade Preparation) MEASUREMENT.	MCDOT	Bob Herz	04/03/2013 05/06/2013	Approved 07/10/2013	12 0 1	Yes No Abstain
Summary	<p>The purpose of the case was to add subgrade preparation measurement for non-surfaced areas designated for vehicle traffic in Section 301.7. The revised paragraphs of the proposed modified specification 301.7 MEASUREMENT are shown below:</p> <p>Measurement for Subgrade Preparation will be by the square yard. The area to be measured will be the total accepted area of new asphalt concrete pavement and new Portland Cement Concrete Pavement (PCCP), including paved shoulders, tapers, turnouts, and unpaved roadway shoulders. Subgrade Preparation area measured will also include the accepted surface area of driveways that are surfaced with aggregate base, or select materials and non-surfaced areas designated for vehicle traffic.</p> <p>Except for PCCP, the area under Portland cement concrete surfaces such as concrete curb and gutter, sidewalk, concrete driveways and driveway entrances, and concrete alley entrances will not be included in the Subgrade Preparation measurement.</p>						

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13-11	Case 13-11: Delete Section 737 ASBESTOS-CEMENT PIPE AND FITTINGS FOR STORM DRAIN AND SANITARY SEWER.	MCDOT	Bob Herz	05/01/2013	Approved 06/05/2013	14 0 0	Yes No Abstain
Summary	<p>The purpose of Case 13-11 was to prevent the use of asbestos-cement pipe for storm drain and sanitary sewer installations. Revisions include the deletion of Section 737 in its entirety and revising all references to Section 737. Section 737 was only referenced in section 605.3, which was updated to remove any reference to Section 737 and asbestos cement pipe.</p>						
13-12	Case 13-12: Revisions to Section 340: Concrete Curb, Gutter, Sidewalk, Sidewalk Ramps, Driveway and Alley Entrance.	Concrete WG	Peter Kandarlis	05/01/2013 08/27/2013	Approved 09/04/2013	14 0 0	Yes No Abstain
Summary	<p>The purpose of the case was to update Section 340 as identified by the Concrete Working Group. This standard has not been significantly changed since 1999. Numerous agencies have created supplements to this standard and some agencies have complete replacement sections.</p> <p>Revisions: The changes include incorporation of supplemental sections from many MAG agency members and sub-sectioning the Construction Methods portion of the standard into a logical work process. The Concrete Working Group also made updates as needed and wording improvements for clarity. Major changes are summarized below:</p> <ul style="list-style-type: none"> a. A new subgrade preparation subsection has been created which includes methods for handling expansive subgrade (including a new table). b. Curing requirements have been added. c. A deficiencies subsection has been added. d. Measurement and payment sections have been expanded to provide specific clarity for curb ramps, curb terminations/transitions, and payment for unsuitable material removal/replacement. <p>There was further discussion about subgrade preparation requirements, and when deficiencies are found, how to correct them. Details 221 (Curb and Gutter) and 230 (Sidewalks) were also updated to correct references to contraction joints and expansion joint filler.</p>						
13-13	Case 13-13: Revisions to Section 415 Flexible Metal Guardrail.	MCDOT	Bob Herz	05/01/2013	Approved 07/10/2013	13 0 0	Yes No Abstain
Summary	<p>The purpose of Case 13-13 was to revise Section 415 to allow use of either 8" by 8" wood posts or 6" by 8" wood posts for any continuous length of guardrail when a specific wood post size is not identified by plans, standard details, or special provisions.</p> <p>It also deleted reference to manufacturer's recommendations regarding installation of guardrail delineation. All requirements are contained in the specifications and standard details.</p>						

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13-14	Case 13-14: Revisions to Section 711 Paving Asphalt to update tests and add new polymer modified section.	Asphalt WG	Jeff Benedict	05/01/2013 08/26/2013	Approved 09/04/2013	14 0 0 Yes No Abstain
Summary	<p>This case corrected testing procedures and added polymer materials to Section 711 Paving Asphalt.</p> <p>In Table 711-1 (existing table) the temporary AASHTO tests are replaced with the current final test procedure numbers. AASHTO tests are used here to assure that the latest specifications are used. The new polymer modified section added three modified asphalt materials at the end of the current section in Table 711-2. Added are two polymer modified materials and a current TR product.</p> <p>The section was reviewed by two labs that do most of the liquid testing in the valley as well as the Asphalt Working Group. A few minor corrections were made to the final approved specification:</p> <ol style="list-style-type: none"> 1. In table 711-1 the section that reads: PAV Aging temps.... should be below the heading “Test using Pressure Aging Vessel Residue” 2. In table 711-2 under “Elastic recovery” the test temperature of 25 C should be removed. This is too warm to run any meaningful test and does not screen for modifiers well enough. The test temp of 10 C should remain and be the only temp. 3. The line reading: “PAV Aging Temperature” needs to be moved below the heading “Test using Pressure Aging Vessel Residue” line. 4. Table 711-2 under the block containing “solubility in Trichloroethylene” should be changed to: Solubility in Trichloroethylene/or n-propyl bromide that is allows under the ASTM test. 					
13-15	Case 13-15: Revisions to MAG Sections 601, 603, 615 and 618 for installing rigid and flexible pipe.	Chandler/ Water-Sewer WG	Warren White	05/01/2013 09/04/2013	Carry Forward	0 0 0 Yes No Abstain
Summary	<p>This case began to provide updated installation specifications for flexible pipe materials. As the case was reviewed in the Water/Sewer Working Group it grew to provide a thorough re-working of the complete pipe installation process from excavation to final backfill for both rigid and flexible pipe types, and several different types of installation such as water, sewer and storm drain. The working group helped determine a framework for moving forward with extensive revisions to the installation specifications. This included updating the terminology to match existing ASTM standards. This will require extensive updates to several MAG Sections 601/603 and 615/618 plus related sections, and Details 200-1 and 200-2.</p> <p>One of the decisions was to move all the testing from Sections 615 and 618 into Section 611. Work will continue on this case in the Water/Sewer Working Group. A summary of the cases current progress is available on the MAG website Cases Under Consideration Page.</p> <p>Case 13-15 will be carried forward to 2014.</p>					

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13-16	Case 13-16: Revision to Section 602; Encasement of Water or Sewer Pipe by Jacking or Tunneling Operation.	Avondale/ Water-Sewer WG	Jim Badowich	05/01/2013 09/04/2013	Approved 09/04/2013	0 0 0	Yes No Abstain
Summary	<p>A complete re-write of Section 602 was done to bring the specification up to current industry standards. The new title of the Section 602 will be TRENCHLESS INSTALLATION OF STEEL CASING.</p> <p>This case was developed with help from industry representatives and went through extensive review by the Water/Sewer Working Group as well as the main committee and Maricopa County. Major changes include the focus on trenchless installation of casing, removing out of date methods and specifications and replacing the requirement to use grout with pea gravel, which is easier to install and remove if required. References to working round-the-clock were removed, and additional ASTM requirements for welding certification were added.</p>						
13-17	Case 13-17: Revision to Section 430.4 DECOMPOSED GRANITE AREA. Eliminate placement of polyethylene below decomposed granite.	MCDOT	Bob Herz	05/01/2013	Approved 07/10/2013	13 0 0	Yes No Abstain
Summary	<p>The purpose of the case was to eliminate placement of polyethylene below decomposed granite in Section 430.4 DECOMPOSED GRANITE AREA. The case deleted the line "In flat areas, a 10 mm black polyethylene film shall be placed prior to spreading the granite." from the second paragraph of 430.4.</p>						
13-18	Case 13-18: Revisions to Detail 250-1 Driveway Entrances with Detached Sidewalk.	MCDOT	Bob Herz	06/05/2013 06/26/2013	Approved 07/10/2013	13 0 0	Yes No Abstain
Summary	<p>The purpose of the case was to coordinate Detail 250-1 with Detail 250-2 by incorporating the applicable 2012 revisions made to Detail 250-2 into Detail 250-1. Revisions included replacing "Driveway Width" with "Driveway Entrance Width", and adding to Detail 250-2 note #13 and #14. They are:</p> <p>13. DRIVEWAY ENTRANCE WIDTH IS THE DRIVEWAY WIDTH PLUS ADDITIONAL WIDENING REQUIRED BY THE LOCAL JURISDICTION.</p> <p>14. ELEVATION AT TOP OF DRIVEWAY RAMP SHALL BE EQUAL TO OR HIGHER THAN NORMAL TOP OF CURB ELEVATION.</p>						

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13-19	Case 13-19: Revisions to Section 345 - Adjusting Frames, Covers, Valve Boxes, and Water Meter Boxes.	Materials WG	Brian Gallimore	06/05/2013 09/04/2013	Approved 09/04/2013	14 0 0	Yes No Abstain
Summary	<p>Section 345 was revised to make the process of adjusting frames, covers and boxes more clear and update the specifications to current industry practice. This included adding information on the lowering procedure. The case was reviewed by the Materials Working Group and industry representatives. Methods of locating utilities included the addition of GPS, and documenting utilities using GPS, swing ties or other methods on the plan. There was discussion in the committee about including rebar in concrete collars, but it was decided to leave it to be determined by the detail used by the agency. Other changes included adding pull boxes, limiting traffic on concrete collars until a minimum compressive strength is reached, and minor rewording of the payment subsection.</p>						
13-20	Case 13-20: Make Section 610 Hydrostatic Test Methods consistent with AWWA C600-10.	Goodyear/ Water-Sewer WG	Troy Tobiasson	06/05/2013 07/30/2013	Approved 08/07/2013	11 0 2	Yes No Abstain
Summary	<p>The purpose of Case 13-20 was to make the Hydrostatic Test Methods in Section 610 Waterline Construction consistent with AWWA C600-10. Major revisions included:</p> <ol style="list-style-type: none"> 1. Revising hydrostatic testing to be more consistent with AWWA C600 (2010) which included pressure testing: +5 psi max, “stable” pressure, reiterate “minimum” pressure, and changing terms to “testing allowance” and “makeup water”, consistent with AWWA C600; changing formula to that found in AWWA C600, and changing “L” to “M” so as to not imply “leakage”. 2. Removing references to installation of asbestos-cement pipe and cast iron pipe; and adding PVC (AWWA C900) pipe. 3. Removing references to specific manufacturers, replacing them with performance specs (Sections 610.6.2 and 610.13(A)). 4. Correcting various grammatical and punctuation errors. 						
13-21	Case 13-21: Create a new Section 742 Precast Manhole Bases. Add detail drawings for construction and installation.	Buckeye/ Water-Sewer WG	Craig Sharpe	06/05/2013	Carry Forward	0 0 0	Yes No Abstain
Summary	<p>The purpose of the case was to create a new Section 742 Precast Manhole Bases with appropriate details. The Town of Buckeye developed specifications and details for the use of precast manholes as an option instead of cast-in place bases. These specifications and details were used as a basis to begin developing this option for use by MAG by the Water/Sewer Working Group. The case introduced draft installation standards in Section 742 as well as draft details for Precast Manhole Base construction, details and installation. This case will continue to be worked on in the Water/Sewer Working Group and will be carried over for further discussion by the main committee in 2014.</p>						

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13-22	Case 13-22: Update Sections 625 and 775 to remove references to steps and the use of bricks in manholes.	Buckeye/ Water-Sewer WG	Craig Sharpe	06/05/2013 08/21/2013	Carry Forward	0 Yes 0 No 0 Abstain
Summary	<p>The purpose of the case was to delete references for the use of bricks and steps in sanitary sewer manholes, specifically in Sections 625 and 775. Brick construction of manholes is no longer in practice, so this method will be deleted from the MAG standards. Steps also are no longer required. Due to safety concerns, workers use a safety line rather than internal steps.</p> <p>Further revisions to this case are planned to update the related manhole detail drawings—not only to remove references to bricks and steps, but also to update them for current materials and industry practice, including adding the option of precast bases as presented in Case 13-21. This case will be carried over to 2014.</p>					
13-23	Case 13-23: Update and Revise Section 309 – Lime Stabilization or Modification of Subgrade.	Materials WG	Brian Gallimore	07/10/2013 09/04/2013	Approved 09/04/2013	14 Yes 0 No 0 Abstain
Summary	<p>The purpose of Case 13-23 was to update and revise Section 309 Lime Stabilization and Lime Modification to better clarify the use and application of lime products. This case was discussed extensively in the Materials Working Group and thoroughly revised with assistance from industry representatives. Major revisions included the following:</p> <p>309.1 Revised to define Lime Stabilization and Lime Modification.</p> <p>309.2.1 Clarify test methods. Method A Referee Method is consistent with other MAG references for subgrade testing and overrides dry prep one point method in case of disputes.</p> <p>309.2.2 Clarified lime types. ASTM C977 defines quicklime and hydrated lime test methods and specification requirements.</p> <p>309.2.3 Reformatted to include properties, certificate of compliance, and applied quantities to both lime slurry and hydrated lime applications.</p> <p>309.3.2 Reformatted to 309.3.1 show untreated and treated soil test procedures for Lime Stabilization Mix Design.</p> <p>309.3.3 Tolerance deleted. Lime content range added to 309.4.4</p> <p>New 309.4.4.1 Quicklime application added. Adding quicklime directly to soil is permitted by National Lime Association, Lime-Treated Soil Construction Manual and by California Department of Transportation. Contractor is responsible for appropriate safety measures when applying and mixing lime. MAG should have all lime treatment options available.</p> <p>309.4.4.1 Change to Section 309.4.4.2. Leave dry hydrated lime as an application option.</p> <p>309.4.6 Mellowing time and mellowing moisture content added and determined by mix design.</p> <p>The specification was also reorganized for a better flow of the process. Finally, language was added to address concerns about the safety and handling of lime materials in residential neighborhoods, and making the format consistent for ASTM and AASHTO references.</p>					

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13-24	Case 13-24 Update Detail 270 Frame and Cover to make the depth of the cover 4", remove the chain attachment, and make drafting corrections.	MCDOT	Bob Herz	07/10/2013 07/16/2013	Approved 09/04/2013	14 0 0	Yes No Abstain
Summary	The purpose of revising Detail 270 FRAME AND COVER is to match frame and covers currently being used. Major revisions are to delete the chain and increase lid depth to four inches. The revised lid depth is also updated on Detail 391-1 where Detail 270 is referenced. The case also made several minor drafting corrections.						
13-25	Case 13-25: Revise Section 729 Expansion Joint Filler.	Concrete WG	Jeff Hearne	07/10/2013 07/25/2013	Approved 09/04/2013	14 0 0	Yes No Abstain
Summary	<p>The current Section 729 references outdated ASTM standards and other materials no longer used. This case completely replaces the existing section with a simpler version that references current ASTM standards. The case was reviewed by the Concrete Working Group. The new language is as follows:</p> <p>EXPANSION JOINT FILLER</p> <p>729.1 PREFORMED JOINT FILLER: Expansion joint filler materials shall consist of preformed strips of a durable resilient compound and comply with ASTM D1751, D1752, or D2628, as specified by the Contracting Agency or as approved by the Engineer.</p> <p>729.2 POUR TYPE JOINT FILLERS FOR PORTLAND CEMENT CONCRETE PAVING (PCCP): Pour type joint fillers shall comply with ASTM D3406 or as approved by the Engineer. Joint sealant shall not contain any coal-tar materials. The following requirement shall be added to paragraphs 7.1 of ASTM D3406: The minimum ambient temperature during application and ambient temperatures under various storage conditions shall be clearly marked on the container.</p> <p>729.3 TEST REPORT AND SHIPMENT CERTIFICATE: Each shipment shall be accompanied by a certificate from the supplier that the material will comply with the above specifications and such certificate shall be delivered to the Engineer.</p>						