

January 29, 2014

TO: Members of the MAG Standard Specifications and Details Committee

FROM: Tom Wilhite, City of Tempe, Chair

SUBJECT: MEETING NOTIFICATION AND TRANSMITTAL OF TENTATIVE AGENDA

Wednesday, February 5, 2014 at 1:30 p.m.
MAG Office, Suite 200 (Second Floor), Ironwood Room
302 North 1st Avenue, Phoenix

A meeting of the MAG Specifications and Details Committee has been scheduled for the time and place noted above. Members of the MAG Specifications and Details Committee may attend the meeting either in person, by videoconference or by telephone conference call. If you have any questions regarding the meeting, please contact Committee Chair Tom Wilhite at 480-350-2921 or Gordon Tyus, MAG staff at 602-254-6300.

In 1996, the Regional Council approved a simple majority quorum for all MAG advisory committees. If the MAG Specifications and Details Committee does not meet the quorum requirement, no action can be taken. Attendance at the meeting is strongly encouraged.

Pursuant to Title II of the Americans with Disabilities Act (ADA), MAG does not discriminate on the basis of disability in admissions to or participation in its public meetings. Persons with a disability may request a reasonable accommodation, such as a sign language interpreter, by contacting Gordon Tyus at the MAG office. Requests should be made as early as possible to allow time to arrange the accommodation.

It is requested (not required) that written comments on active cases be prepared in advance for distribution at the meeting.

MAG Standard Specifications and Details Committee
TENTATIVE AGENDA
February 5, 2014

COMMITTEE ACTION REQUESTED

1. Call to Order and Introductions

2. Call to the Audience

An opportunity is provided to the public to address the MAG Specifications and Details Committee on items that are not on the agenda that are within the jurisdiction of MAG, or non-action agenda items that are on the agenda for discussion or information only. Citizens will be requested not to exceed a three minute time period for their comments. A total of 15 minutes will be provided for the Call to the Audience agenda item, unless the committee requests an exception to this limit. Please note that those wishing to comment on agenda items posted for action will be provided the opportunity at the time the item is heard.

3. Approval of January 8, 2014, Meeting Minutes

2. Information.

3. **Review and approve minutes of the January 8, 2014 meeting.**

Carry Forward Cases from 2013

4. Case 13-15:

Revisions to MAG Sections 601, 603, 615 and 618 for installing rigid and flexible pipe..

4. Information and discussion.

Sponsor: Warren White, Chandler

5. Case 13-21:

Create a new Section 742 Pre Cast Manhole Bases. Add details for construction and installation.

5. Information and discussion.

Sponsor: Craig Sharp, Buckeye

6. Case 13-22:

Update Sections 625 and 775 to remove references to steps and the use of bricks in manholes.

6. Information and discussion.

Sponsor: Craig Sharp, Buckeye

New Cases for 2014

- | | |
|---|---|
| 7. <u>Case 14-01: Misc. Corrections</u>
A. Change “transverse” to “longitudinal” in Section 321.8.2 | 7. Information and discussion.
Sponsor: Rod Ramos, Scottsdale |
| 8. <u>Case 14-02: Revision to Section 405 Monuments</u>
Update specification to match current details and requirements. | 8. Information and discussion. <i>(Updated)</i>
Sponsor: Bob Herz, MCDOT |
| 9. <u>Case 14-03: Updates to Guardrail Details</u>
Revisions to Section 415 and/or inclusion of MCDOT guardrail details. | 9. Information and discussion.
Sponsor: Bob Herz, MCDOT |
| 10. <u>Case 14-04: Revision to Detail 552 Concrete Cut-off Walls.</u>
Move cut-off walls away from roadway edge and delete design related notes. | 10. Information and discussion.
Sponsor: Bob Herz, MCDOT |

General Discussion

- | | |
|---|--|
| 11. <u>Working Group Reports</u> | 11. Information and discussion.
Water/Sewer Chair: Jim Badowich
01/21/14 Meeting
Asphalt Chair: Jeff Benedict
01/30/14 Meeting
Materials Chair: Brian Gallimore
01/30/14 Meeting
Concrete Chair: Jeff Hearne
01/30/14 Meeting
Outside ROW: Peter Kandaris |
| 12. <u>General Discussion</u>
Staff Report on 2014 Update Packet revision. | 12. Information and discussion. |
| 13. <u>Request for Future Agenda Items</u> | 13. Information and discussion. |

Adjournment

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

January 8, 2014

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

AGENCY MEMBERS

Jim Badowich, Avondale, Vice Chair
Craig Sharp, Buckeye (proxy)
Warren White, Chandler
Antonio Hernandez, El Mirage
Wayne Costa, Florence
Tom Condit, Gilbert
Mark Ivanich, Glendale
Bob Herz, MCDOT
Bob Draper, Mesa

* Dan Nissen, Peoria
Syd Anderson, Phoenix (St. Trans.)
Jami Erickson, Phoenix (Water)
Rodney Ramos, Scottsdale
Jason Mahkovtz, Surprise
Tom Wilhite, Tempe, Chair
Harvey Estrada, Valley Metro
* Gregory Arrington, Youngtown

ADVISORY MEMBERS

Jeff Benedict, ARPA
* Slade Ottney, NUCA
Bill Davis, NUCA (proxy)
Adrian Green, AGC
Brian Gallimore, AGC

Jeff Hearne, ARPA
Peter Kandarlis, Independent
Paul R. Nebeker, Independent
Jacob Rodriguez, SRP

MAG ADMINISTRATIVE STAFF

Gordon Tyus

* Members not attending or represented by proxy.

GUESTS/VISITORS

Arturo Chavarria, Hanson
Ed Diggs, Cues, Inc.
Mike Hook, ACPA
Arvid Veidmark, Specialized Services Co.
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

Chair Wilhite opened the call to the audience. No members of the audience requested to speak.

3. Approval of Minutes

The members reviewed the September 4, 2013 meeting minutes. Jami Erickson introduced a motion to accept the minutes as written. Bob Herz seconded the motion. A voice vote of all ayes and no nays was recorded.

4. Presentation on Laser Profiling

Mike Hook of the American Concrete Pipe Association and member of the Water/Sewer working group introduced Ed Diggs of Cues, Inc. to give a presentation on laser profiling of sewer/storm lines and other inspection technologies.

Mr. Diggs introduced himself and his company Cues, Inc. He said they had been in the business for 50 years. He gave a PowerPoint presentation showing how laser profiling can detect excess deflection and other problems such as corrosion in pipes that can be missed with typical video inspections. He said it was now common for agencies to do an inspection before and after the pipe is backfilled.

He also discussed new technologies such as Light Imaging Distance and Radar (LIDAR) techniques that can find defects more accurately in large diameter pipes (36" and up). He described the actual products and software that can graph the pipe in 3D and integrate with asset management programs. He said they can even do accurate mapping of the lines to check against as-built plans.

A new technique can use pipe penetrating radar to find defects and voids on the other side of the pipe. This can help identify issues before they become larger problems. He answered questions from the committee and said the equipment for laser profiling can be purchased for around \$30,000. A copy of the presentation can be downloaded from the MAG meeting webpage: <http://www.azmag.gov/Events/Event.asp?CMSID=5593>.

Carry Forward 2013 Cases

5. Case 13-15: Revisions to MAG Sections 603, 615 and 618 for Flexible Pipe.

Update pipe installation requirements to allow for flexible pipe types. Warren White said that the summary memo from the September meeting was included in the packet and is still valid. He said the group working on this case has been reworking the text and narrowing options in Sections 601 and 603. He noted there were changes in the members from Contech. He said in

November he received updated materials and comments from Maricopa County. Though they have been working on revisions, they are not quite ready for the committee. He wants to review them with the group working on the case as well as the Water/Sewer Working Group. He said there were some dependencies such as testing that Jami Erickson from Phoenix proposed working on. He hoped to have updated materials ready for the February meeting.

6. Case 13-21: Create a new Section 742 Pre Cast Manhole Bases. Add detail drawings for construction and installation.

Create a new section and details for pre-cast manhole bases. Craig Sharp said they are updating the current manhole details, but lost their CAD operator who was working on them. Bob Draper of Mesa volunteered to help make the CAD corrections. Mr. Sharp thanked him for the assistance.

7. Case 13-22: Update Sections 625 and 775 to remove references to the use of bricks in manholes and remove references to manhole steps.

Update Sections 625 Manhole Construction to remove references to the use of bricks and manhole steps. Also remove these references in Section 775 Brick and Concrete Masonry Units. Mr. Sharp said this case goes with the previous one and also has not been updated since the last revision.

New Cases for 2014

8. Case 14-01: Miscellaneous Corrections.

A. Change "transverse" to "longitudinal" in Section 321.8.2. Rod Ramos proposed making this change. After a discussion with Bob Herz, they determined that the word choice was an error and should be written as: "Longitudinal Joints of each course shall be staggered at a minimum of 6 inches with relation to the longitudinal joint of the immediate underlying course cold **longitudinal** construction joint."

9. Case 14-02: Revisions to Section 405 Monuments.

Update specifications to match current details and requirements. Bob Herz noticed that some of the specifications on monuments needed to be updated to match the revised detail and current requirements. The case shows his proposed revisions to Section 405. He asked for members to review it and send him any comments.

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

Make revisions to Section 415 and/or include guardrail details in MAG. Bob Herz said Maricopa County will change to the 31" high (instead of 28") guardrails beginning in 2015. This is based on a recommendation from FHWA. This memo has been posted online here: <http://www.azmag.gov/Events/Event.asp?CMSID=5593>

Since MAG currently refers to the County details, MAG will need to either update the specifications to match the new County details, or add the existing County details into the MAG details. The County will be moving to the Midwest Guardrail System that has splice points located between posts. It is still a strong post system, but with the splice points located between the posts the W-beam is less prone to tearing.

Brian Gallimore asked about retrofitting systems, saying that ADOT has moved to adopt the 31" height and there has been difficulty trying to integrate with existing guardrails. Members suggested keeping the existing details online as a reference for repairing current installations. Mr. Gallimore said he would check with contractors to see what they are doing on the ADOT projects.

Mr. Herz said the new 31" high guardrail system will be used for new installations. Existing 28" high guardrail will remain in place and be maintained; no retrofitting is needed or planned.

11. Case 14-04: Revision to Detail 552 Concrete Cut-off Walls.

Move cut-off walls away from roadway edge and delete design related notes. Bob Herz provided a new case during the meeting that would require the location of cut-off walls to be dimensioned. The existing detail has the cut-off walls located along the roadway edge. Since scour holes are hazardous and form at the edge of cut-off walls, cut-off walls should be located away from the normal edge of pavement. While reviewing the detail he noticed notes relating to design issues rather than construction, and thought they should be removed. He also wanted to replace Note 5 with the following, "REINFORCING BARS SHALL BE SET 3" CLEAR FROM THE SIDES OF CUT-OFF WALLS." Mr. Herz asked members to review the proposed detail revisions and send him comments.

12. Working Group Reports

Chair Wilhite asked for the working group chairs to provide him a memo listing the proposed goals and objectives for the working groups during the next year. Mr. Herz asked if the groups had any upcoming meetings scheduled. Mr. Wilhite said he would distribute a memo to encourage participation.

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

Jim Badowich said he would like to schedule a meeting for January 21st at 1:30 p.m. He asked Gordon Tyus to reserve a meeting room at MAG.

b. **Asphalt Working Group**

Jeff Benedict said the group's next meeting was tentatively scheduled for January 30th, a week later than typical. He said they will be coming up with a list of projects.

c. **Materials Working Group**

Brian Gallimore said he currently didn't have any specific items.

d. **Concrete Working Groups**

The concrete working group would follow the Asphalt/Materials working group meetings on January 30th.

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

Peter Kandaris said he planned working with members directly via email to update and prepare specifications. He felt this would be more productive than scheduling meeting dates at this time.

13. General Discussion

Gordon Tyus provided a staff report. One item discussed was a revision to the MAG policies and procedures regarding quorum requirements for technical committees. He said that members who had not attended the prior three meetings would not be counted in the total number of members when it came time to determine a majority in attendance that is needed for a quorum.

He also reported that the 2014 Revisions to the Specifications and Details books have been posted on the MAG website. The update packets have been printed and are available for purchase. He said that after the initial printing, it was noted that a few additional pages needed to be added to the packet due to the text reflow from the prior page 107-1.

Tom Wilhite asked members for any future agenda items or discussion issues. Some of the items mentioned included:

- Tom Wilhite – low impact development specs and details.
- Jeff Hearne – specs on penetrating sealers, to be addressed first in the working group.
- Warren White – carbon fiber wraps for repairs. Mr. Wilhite said they used this product to increase the strength of a bridge column in Tempe.

14. Adjournment:

Seeing no further business, the chair entertained a motion to adjourn. This was moved by Jim Badowich and seconded by Harvey Estrada. The motion passed and the meeting was adjourned at 2:49 p.m.

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For
MAG Standard Specifications and Details Committee

Page 1 of 4
February 2014

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LIST OF MEMBERS
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Page 3 of 4
April 2013

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LIST OF MEMBERS
For
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February 2014

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2014 PROPOSED REVISIONS TO MAG SPECIFICATIONS AND DETAILS

(Updated information can be found on the website: <http://www.azmag.gov>)

CASE	DESCRIPTION	PROPOSED BY	MEMBER	SUBMITTAL DATE Last Revision	VOTE DATE	VOTE	
	CARRY FORWARD CASES FROM 2013						
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		0 0 0	Yes No Abstain
13-21	Case 13-21: Create a new Section 742 Pre Cast Manhole Bases. Add detail drawings for construction and installation.	Buckeye/ Water-Sewer WG	Craig Sharpe	06/05/2013		0 0 0	Yes No Abstain
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		0 0 0	Yes No Abstain
	NEW CASES FOR 2014						
14-01	Case 14-01: Miscellaneous Corrections: A. Change “transverse” to “longitudinal” in Section 321.8.2.	Scottsdale	Rod Ramos	01/08/2014		0 0 0	Yes No Abstain
14-02	Case 14-02: Revision to Section 405 Monuments. Update specification to match current details and requirements.	MCDOT	Bob Herz	01/08/2014		0 0 0	Yes No Abstain
14-03	Case 14-03: Updates to Guardrail Details. Revisions to Section 415 and/or inclusion of MCDOT guardrail details.	MCDOT	Bob Herz	01/08/2014		0 0 0	Yes No Abstain
14-04	Case 14-04: Revision to Detail 552 Concrete Cut-off Walls. Move cut-off walls away from roadway edge and delete design related notes.	MCDOT	Bob Herz	01/08/2014		0 0 0	Yes No Abstain
14-05							
14-06							



MARICOPA COUNTY
Department of Transportation

MEMORANDUM

Date: January 8, 2014

To: MAG Specifications and Details Committee

From: Robert Herz, MCDOT Representative

Subject: Revision to Section 405 MONUMENTS [and Detail 120](#)

Case 14-02

[Revised 2014-01-30](#)

PURPOSE: Update specification to match current details and requirements.

[Add note to Type B Monument in Detail 120 to have the depth recessed six inches below finished grade when located in an unpaved roadway or alley.](#)

REVISION: See [proposed revised detail 120 and](#) the attached redlined strike-out version of the specification for revisions followed by the proposed modified specification in final form. [Changes to specification 405 made after the January meeting have yellow highlighting.](#)

SECTION 405

MONUMENTS

405.1 DESCRIPTION:

This work shall consist of furnishing and installing ~~Portland cement concrete right-of-way monuments and~~ survey monuments at the locations shown on the plans or directed by the Engineer ~~and as specified~~.

Monuments shall conform to the standard details or details shown on the plan.

405.2 MATERIALS:

The concrete portion of monuments shall be constructed in accordance with the provisions in Sections 725 and 505.

Concrete shall be Class B.

Brass caps for survey monuments ~~will~~ shall be furnished by the Contractor unless otherwise specified ~~in the special provisions~~.

405.3 CONSTRUCTION:

QUESTION: DOES ANY AGENCY USE PRECAST MONUMENTS; IS THE FOLLOWING PARAGRAPH NEEDED OR SHOULD IT BE DELETED?

In constructing precast monuments, the forms shall not be removed until after the concrete has hardened. Monuments that are warped will be rejected. The exposed surface of the finished monuments shall be uniform, of even texture, and shall be free from holes, cracks and chipped edges. The precast monuments shall not be transported to the work site until the concrete has cured.

Cast in place monuments shall be cast in drilled holes without the use of forms.

Survey monuments shall be **set** vertically in the ground.

The brass caps assembly shall be firmly embedded in the concrete cylinder ~~placed in survey monuments~~ before the concrete ~~block~~ has acquired its initial set ~~and shall be firmly bedded in the concrete~~. The concrete ~~block-cylinder~~ shall be so located that, the reference point will fall within a 1 inch circle in the center of the brass cap.

405.4 INSTALLATION:

~~Right-of-way monuments shall be set firmly and vertically in the ground to a depth of at least 3 feet.~~

The tops of survey monument covers shall be set flush with the pavement surface.

~~Survey monuments shall be set in position after the first course of asphalt concrete.~~

405.4 MEASUREMENT:

Survey monuments will be measured by the number of **units of** each type of monument constructed and accepted.

405.5 PAYMENT:

Payment for monuments will be ~~at the contract unit price made on the basis of the prices bid~~ and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in constructing the monuments, complete in place, ~~including asphalt seal and necessary excavation and backfill,~~ as shown on the plans or as directed by the Engineer.

- End of Section -

PROPOSED SPECIFICATION IN FINAL FORM:

SECTION 405

MONUMENTS

405.1 DESCRIPTION:

This work shall consist of furnishing and installing survey monuments at the locations shown on the plans or directed by the Engineer.

Monuments shall conform to the standard details or details shown on the plan.

405.2 MATERIALS:

The concrete portion of monuments shall be constructed in accordance with the provisions in Sections 725 and 505. Concrete shall be Class B.

Brass caps for survey monuments shall be furnished by the Contractor unless otherwise specified.

405.3 CONSTRUCTION:

QUESTION: DOES ANY AGENCY USE PRECAST MONUMENTS; IS THE FOLLOWING PARAGRAPH NEEDED OR SHOULD IT BE DELETED?

In constructing precast monuments, the forms shall not be removed until after the concrete has hardened. Monuments that are warped will be rejected. The exposed surface of the finished monuments shall be uniform, of even texture, and shall be free from holes, cracks and chipped edges. The precast monuments shall not be transported to the work site until the concrete has cured.

Cast in place monuments shall be cast in drilled holes without the use of forms.

Survey monuments shall be **set** vertically in the ground.

The brass cap assembly shall be firmly embedded in the concrete cylinder before the concrete has acquired its initial set. The concrete cylinder shall be so located that, the reference point will fall within a 1 inch circle in the center of the brass cap.

The tops of survey monument covers shall be set flush with the pavement surface.

405.4 MEASUREMENT:

Survey monuments will be measured by the number of **units of** each type of monument constructed and accepted.

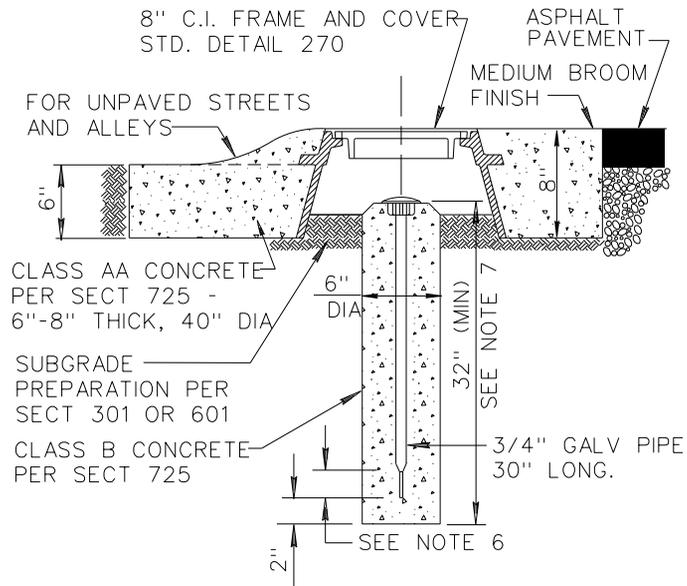
405.5 PAYMENT:

Payment for monuments will be at the contract unit price and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in constructing the monuments, complete in place, as shown on the plans or as directed by the Engineer.

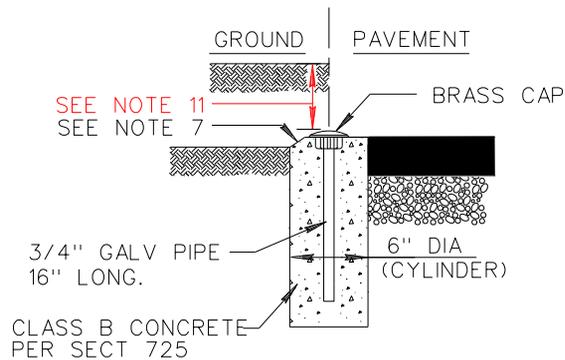
- End of Section -

NOTES:

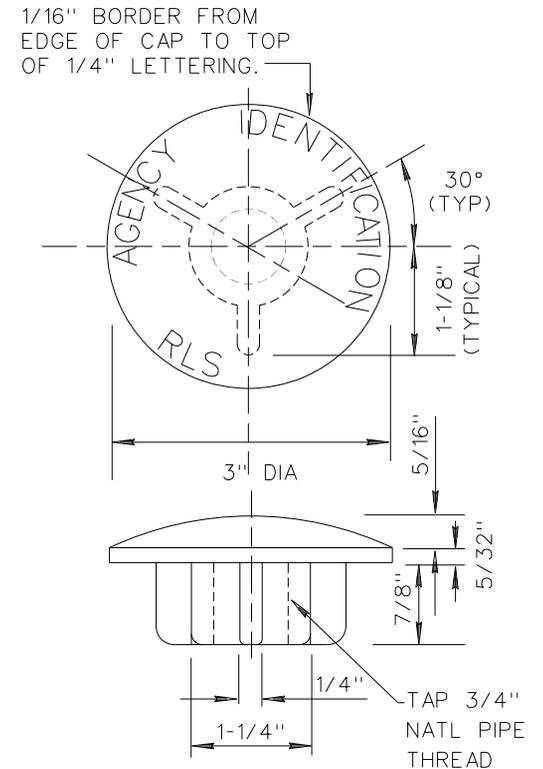
1. TYPE 'A' TO BE USED AT INTERSECTIONS OF MAJOR STREETS & COLLECTOR STREETS, SECTION CORNERS, SECTION 1/4 CORNERS, CENTER OF SECTIONS, AND AT OTHER POINTS AS SHOWN ON PLANS.
2. TYPE 'B' TO BE USED (EXCEPT WHERE TYPE 'A' IS SPECIFIED) AT INTERSECTION OF STREET CENTERLINES, PC'S, PT'S AND PI'S OF CURVES, SECTION 1/16 CORNERS, SUBDIVISION CORNERS, CHANGE IN ALIGNMENT OF SUBDIVISION BOUNDARIES, AND AT OTHER POINTS AS SHOWN ON PLANS.
3. TYPE 'C' TO BE USED AT CORNERS OF AND CHANGE IN ALIGNMENT OF SUBDIVISION BOUNDARIES WHERE CORNERS OR CHANGES IN ALIGNMENT FALL OUTSIDE OF PAVED AREAS OR UNPAVED ALLEYS AND STREETS.
4. CAP TO BE CONSTRUCTED OF RED BRASS OR BRONZE.
5. LETTERS TO BE APPROX. 1/32" WIDE & 1/32" DEEP.
6. FLATTENING THE BOTTOM 2" OF THE GALVANIZED PIPE IS OPTIONAL.
7. TOP OF CONCRETE POST IS CHAMFERED 3/4" EXCEPT WHEN SET FLUSH WITH PAVEMENT.
8. THE CAP SHALL SHOW THE POINT SURVEYED BY A PUNCH MARK OR SCRIBED CROSS AND THE CAP SHALL BE STAMPED WITH THE YEAR AND THE REGISTERED LAND SURVEYOR'S (RLS) REGISTRATION NUMBER.
9. WHEN APPLICABLE, THE CAP SHALL BE STAMPED WITH THE APPROPRIATE PUBLIC LAND MARKING PER CURRENT MANUAL OF INSTRUCTIONS FOR THE SURVEY OF PUBLIC LANDS OF THE UNITED STATES, PREPARED BY THE BUREAU OF LAND MANAGEMENT.
10. SUBMIT TO THE ENGINEER A COPY OF THE RECORDED CORNER RECORD OR RESULTS OF SURVEY TO DOCUMENT COMPLIANCE WITH THE ARIZONA BOARD OF TECHNICAL REGISTRATION REQUIREMENTS.
11. FOR UNPAVED STREETS AND ALLEYS SET TOP OF MARKER SIX INCHES BELOW FINISHED GRADE



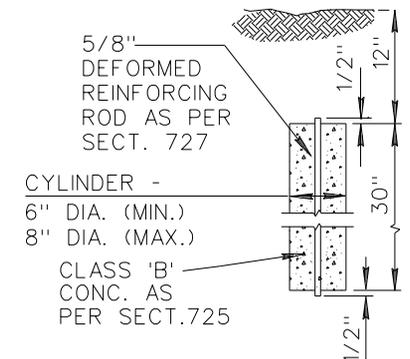
TYPE 'A'
(WITH FRAME)



TYPE 'B'
(WITHOUT FRAME)



CAP DETAIL



TYPE 'C'



MARICOPA COUNTY
Department of Transportation

MEMORANDUM

Date: January 8, 2014

To: MAG Specifications and Details Committee

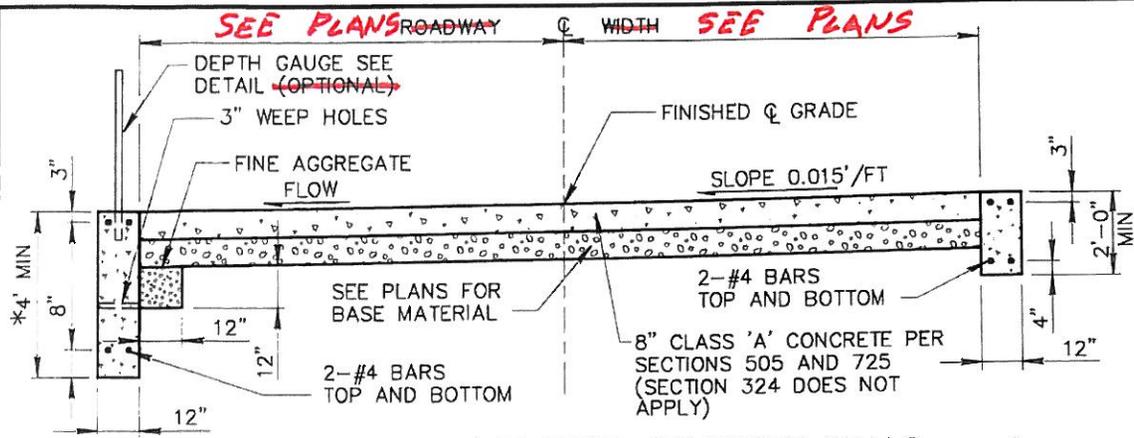
From: Robert Herz, MCDOT Representative

Subject: Revision to Detail 552 CONCRETE CUT-OFF WALLS **Case 14-04**

PURPOSE: To move cut-off walls away from roadway edge. Scour holes are hazards that form at the edge of cut-off walls. The hazard should not be located at the edge of the roadway but should be no closer than the edge of the roadway shoulder.

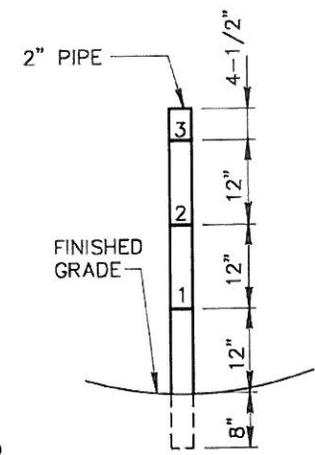
Other miscellaneous adjustments include the deletion of design related notes from the construction detail.

REVISION: See the attached marked up detail for revisions.

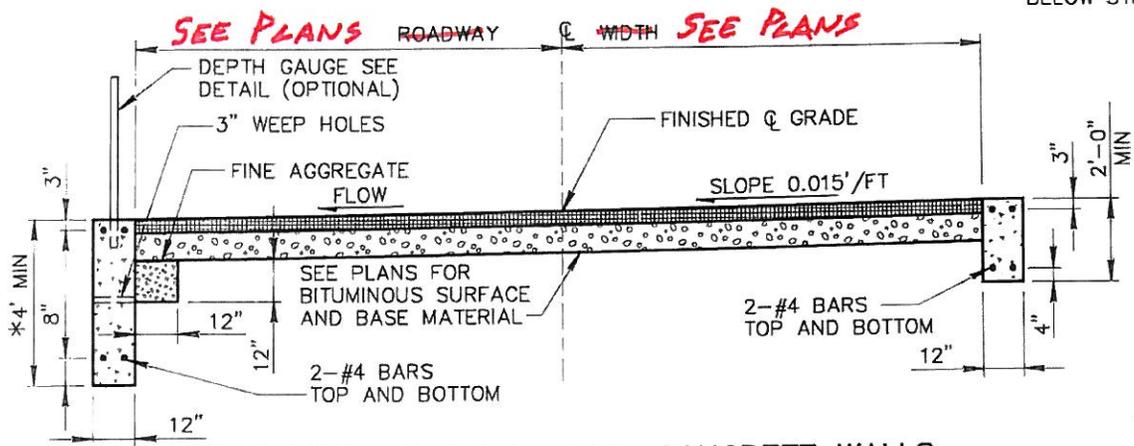


CONCRETE SURFACE FORD CONCRETE WALLS

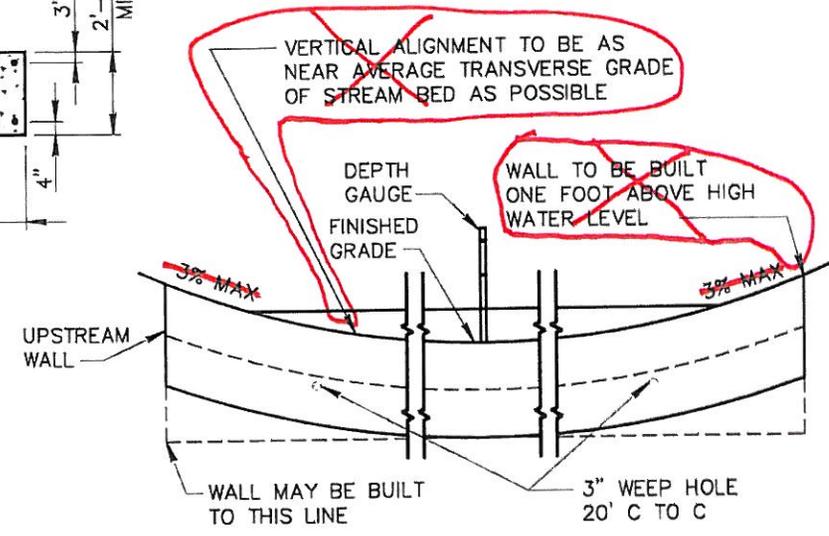
*MIN. DISTANCE BELOW STREAM BED



DEPTH GAUGE DETAIL
(OPTION OF THE CONTRACTING AGENCY)



BITUMINOUS SURFACE FORD CONCRETE WALLS



ELEVATION LOOKING UPSTREAM

NOTES:

1. FORD WALLS SHALL BE CLASS 'A' CONCRETE PER SECT. 725.
2. DEPTH GAUGE SHALL BE PAINTED 2 COATS WHITE ENAMEL. NUMERALS AND MARKERS SHALL BE 1 COAT BLACK ENAMEL.
3. NUMBERS ON DEPTH GAUGE TO BE 2" HIGH.
4. HEIGHT OF DEPTH GAUGE ~~OPTIONAL~~ **PER PLANS**
5. ~~TWO DEPTH GAUGES MAY BE USED. ONE ON EACH END OF UPSTREAM WALL START WITH 2' INSTEAD OF 1'.~~ **REINFORCING BARS SHALL BE SET 3" CLEAR FROM SIDES OF CUT-OFF WALLS.**

DETAIL NO. 552	MARICOPA ASSOCIATION OF GOVERNMENTS	STANDARD DETAIL ENGLISH	CONCRETE CUT-OFF WALLS	REVISED 01-01-2009	DETAIL NO. 552
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Water/Sewer Working Group Meeting

Meeting Notes
January 21, 2014

Opening:

A meeting of the Specifications and Details Water/Sewer Working Group was called to order by chair Jim Badowich on January 21, 2014, at 1:35 p.m. in the MAG Cholla Room.

1. Introductions/Attendance

Tony Ayala (Avondale), Jim Badowich (Avondale), Rob Godwin (Goodyear), Mike Hook (ACPA), Craig Sharp (Buckeye), Gordon Tyus (MAG), Arvid Veidmark (Specialized Services), Stew Waller (Rinker), Warren White (Chandler)

2. Goals and Opening Comments

Mr. Badowich asked about goals for the year to send to the committee chair. He said a goal of his was to get more participation by agencies and finish active cases. Warren White said we need someone to sponsor a case for a new testing section 611 to go along with the other revisions he is working on – possibly Jami Erickson from Phoenix. He also said the laser profiling presentation was good and asked if there was a certification process. Mike Hook said that PipePro in town are now providing this service. Rob Godwin discussed the impact of the mandrel size they use, and the ASTM specs. There was also discussion about the change in grade for sewer lines such as sag in the pipe and how this is different than the ovality of the pipe. Mr. Godwin also discussed testing and noted that the ASTM method testing plastic pipe is longer than the time for clay pipe that MAG currently uses.

3. Manhole Revisions/Update (Cases 13-21 and 13-22)

Craig Sharp handed out updated detail drawings for 420-1, 2 and 3 and 421 that incorporated the revised discussed at previous meetings. He discussed some of the major changes. Other related discussions included taking jetting out of the spec, methods to insure proper backfill around the manhole including the option for CLSM. Mr. Badowich noted that the detail could show half for when it is installed outside of the street. Members agreed it still needed the concrete collar to protect the manhole opening. Warren White said that the note size and fonts should be consistent with other MAG details.

4. Revisions to Rigid and Flexible Pipe Installation (Case 13-15)

Warren White handed out revised versions of Sections 601, 603, and 618 based on feedback from previous meetings. He tried to make 601 and 603 consistent in format, but noted that 615 and 618 are not as consistent. These sections have been reduced since parts of them were moved into 601/603 and the testing is planned to be moved into a new Section 611. Mr. White said that he added corrugated metal pipe under flexible pipe types.

The group proceeded to thoroughly go through Section 601 and make comments on the draft. Bedding terminology issues were discussed and the default type of fill for the initial fill to the springline, to 1 foot above the pipe, and the final backfill were discussed. This included using ABS as the default with the options for CLSM for both rigid and flexible pipe types.

Stew Waller said they wanted to look at the trench width tables more closely. In the shoring and sheeting subsection the group recommended simplifying the language to require adherence to OSHA standards. Compaction specs were revised to not include jetting and reduce the maximum lifts to 12" rather than the current 4'. The group also recommended increasing the minimum trench compaction densities to 95% for most cases up to 1 foot above the springline and 100% to the surface.

On Section 618 Mr. White said he listed out what sections to refer to for the different pipe materials. Mr. Badowich recommended spelling out HDPE and SRPE. The Jacking Pipe section was removed. Arvid Veidmark said he created a new Section 607 draft Jacking specification and that it should refer to this instead of 602.

Mr. White said he would incorporate these changes and work with the industry reps to produce another draft. Mr. Badowich recommended bring it to the working group once more before sending it to the full committee.

5. Water Testing/Flushing

Rob Godwin passed out information on sanitary sewer air testing currently in Section 615 and comparing it to ASTM standards. He also handed out an outline for proposed changes to Section 610. Quite a few changes were proposed to make sure the specs meeting Arizona Statutes and to be more consistent with AWWA C651. Waterline separation was one issue. Mr. Badowich recommended contacting the county Department of Health and Services to get clarification on requirements. Mr. Godwin said the polyethylene corrosion protection table needed to be updated, and asked about concrete blocking for valves up to 24". He also discussed Goodyears method of water testing and the importance of having a high flow rate for flushing. Protection of pipe ends was also mentioned.

6. Jacking and Tunneling

Arvid Veidmark said he produced a draft Section 607 TRENCHLESS INSTALLATION OF FLUSH BELL AND SMOOTH WALL JACKING PIPE FOR STORM DRAIN OR IRRIGATION. Mr. Badowich said he was willing to work with Mr. Veidmark to sponsor a potential case. Mr. Veidmark said he would send the file to Badowich and Tyus for posting online.

7. Other Items

Jim Badowich asked about other possible meeting dates to allow for attendance of other agency members such as Bob Herz from MCDOT. Most members preferred Tuesdays or Thursdays, either the 2nd or 3rd week of the month. Mr. Tyus said the Asphalt/Concrete working group meetings normally were on the 3rd Thursday of each month, and he preferred not to have a conflict. Mr. Badowich said he would get additional feedback for potential meeting dates.

8. Next Meeting Date

The next meeting of the Water/Sewer working group is tentatively scheduled for Tuesday, February 18th at 1:30 p.m. at the MAG office.

The meeting was adjourned at 4:32 p.m.

**Report to MAG Technical Committee
Meeting is called for January 30 2014
Asphalt and Materials Working Group meetings
By Chairmen, Jeff Benedict, Brian Galimore**

The meeting is scheduled for noon on January 30, 2014 At the ARPA offices. Cases will be determined by the subcommittee.

Two discussion items will be the need for a outside of right-of-way specification pavement construction specification of parking lots.

The other item that will be discussed will be section 321 and revisions needed for permit work and how it is handled and enforced. This topic could really use feedback from agency members.

The only case that will be proposed for this meeting will be a small revision to section 718 Table 718-1 in section "C" to update values to reflect current product specification.

Members will be bringing more items for discussion and possible action plans developed for them.

Future meeting dates will be established at this meeting.

**Concrete Working Group Meeting
By Chairman, Jeff Hearne**

The meeting will start roughly around 1:30pm – after the Asphalt and Materials Working Groups are complete.

Gerald Copeland from Bone Dry Products will make a presentation on penetrating concrete sealers – for an upcoming case submittal to the Committee for inclusion into the appropriate MAG section.

We will re-start our work to update section 324 on Portland Cement Concrete Pavement (PCCP).

We would also like to put together a small group of interested parties to be looking at pervious concrete for inclusion in the Outside of Right-of-Way Specifications.



Arizona Rock Products Association
916 W. Adams Phoenix, Arizona 85007
Phone (602) 271-0346 Fax (602) 255-0363

Agenda
MAG Concrete Working Group Meeting
Thursday, January 30, 2014 @ 1:30 pm
Chairman – Jeff Hearne, Salt River Materials Group

- I. Call to Order and Introductions
- II. Sign-in Sheet – Working Group members and Guests
- III. Presentation on Penetrating Concrete Sealers – Gerald Copeland
- IV. Proposed City of Phoenix Revisions to Section 340 – Brian Gallimore
- V. Industry Meeting with City of Phoenix on February 5th – Robert Barkley
 - a) Class B Extruded Curb proportioning requirements and suggested acceptance criteria
 - b) Recycled Concrete Base Materials
 - c) RAP in Asphalt, and other items.
- VI. Question on Cylinder Testing Frequency in Section 725.8 – Robert Herz
- VII. Question on Mixing Requirements in Section 725.7.2 – Peter Kandarlis
- VIII. Revision to Section 324 on PCCP – Jeff Hearne
- IX. New/Old Business
- X. Next meeting: **Thursday, February 20, 2013 @ 1:30 pm**
(Following the Asphalt and Materials Working Group meetings)
- XI. Adjournment