

# Water/Sewer Working Group Meeting

Meeting Notes  
February 18, 2014

## **Opening:**

A meeting of the Specifications and Details Water/Sewer Working Group was called to order by chair Jim Badowich on February 18, 2014, at 1:35 p.m. in the MAG Cottonwood Room.

## **1. Introductions/Attendance**

Jim Badowich (Avondale), Arturo Chavarria (Hanson), Jami Erickson (Phoenix), Jason Jackson (Oldcastle), Mike Molina (Oldcastle), Paul Nebeker (Pipe Right), Mike Sanders (AZUCA), Craig Sharp (Buckeye), Gordon Tyus (MAG), Arvid Veidmark (Specialized Services), Stew Waller (Rinker)

## **2. Meeting Dates**

Mr. Badowich said the majority of feedback he received was to keep the meeting times the same – on the third Tuesday of the month.

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

Craig Sharp said he is working with Mesa to get the CAD drawings updated. Once they are ready he proposed presenting them to the committee. Mike Molina from Oldcastle asked for a summary of the changes. Jim Badowich said bricks and steps are removed, there was a clean-up of the drawings and that reinforcement of the bases would be required at greater depths (20' +). Mr. Molina said reinforcement is also often used for larger pipe sizes. Mr. Sharp said the details were combined to include options for both precast and cast-in-place bases, and new details for precast bases were added based on Buckeye's experience.

Mr. Badowich suggested specifications for vacuum testing manholes be added in the future. Further discussion about the ADEQ and OSHA requirements regarding the vacuum testing of manholes followed, for both prior to backfill and after, as well as with and without coating. Mr. Molina said the process for vacuum testing in the Valley generally follows the ASTM standards, but cities have different testing times, such as 90 or 60 seconds. He also described the process using a test head on the top of the cone. Several agency representatives said they do the testing after the adjustments and paving was done.

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

Warren White was unable to attend the meeting, but Mr. Tyus supplied copies of the latest versions of Sections 601 and 603 for discussion. Paul Nebeker asked why jetting was removed. Mike Sanders said it went out of practice years ago. Mr. Badowich commented that Chandler had settling problems due to jetting and thinks mechanical compaction is preferable. Stew Waller said other than a few minor issues he thinks Sections 601 and 603 are in pretty good shape. He noted that they use the updated terminology to match ASTM and the revised Detail 200. Jami Erickson recommended that a complete package of all the revised sections and details to date be prepared for review by the full committee.

She also said that she was planning to prepare a draft for a new Section 611 that combined the testing procedures, although it likely won't include any new ones for this first draft. Mr. Waller said ASHTO has a completed a guide for laser testing procedures.

### **5. Water Testing/Flushing**

Rob Godwin, who had been working on revising Section 610 was not present, but Mr. Badowich led a general discussion on flushing requirements. Paul Nebeker said Tempe has strict requirements in order to pass a bacteria test. He said it is not possible to get an adequate flow from a 2" connection, and that adding extra chlorine can also cause problems. Mr. Samer said it would be easier to flush if agencies allowed the lines to be tied into the main line with a new valve, rather than using a jumper. Ms. Erickson said cities are worried about contamination. Increasing the size of the connectors to be 2" smaller than the size of the pipe being flushed was suggested. There was also discussion about costs of testing and charging for water used for flushing. Mr. Badowich said due to low water reserves in Avondale, testing was only allowed on certain days. Mr. Nebeker stated that a flow rate of 10 ft/sec was required for proper flushing. He also commented that the last step in construction was to install a small portion of the line after testing, which could still contaminate the system.

### **6. Jacking Tunneling and Boring**

Arvid Veidmark emailed out the latest draft of Section 607 TRENCHLESS INSTALLATION OF FLUSH BELL AND SMOOTH WALL JACKING PIPE FOR STORM DRAIN OR IRRIGATION. It includes revisions from Bob Herz, and replaces part of Section 618. Mr. Tyus said he could post the latest version online. Mr. Veidmark also said he was working on a draft for a new Section 608 for directional boring. He asked if he should move forward with specifications for dry or wet utilities. Mr. Badowich said it is becoming common for copper waterlines, and other utilities agencies use such as for ITS infrastructure and traffic signal cabling. He also asked about potholing requirements. Mr. Veidmark said that was determined by the blue stake law. Paul Nebeker commented on the difference between boring new and replacement lines. Mr. Veidmark said he would continue work on the section.

### **7. Other Items**

Jami Erickson said Phoenix is considering incorporating some of their supplements. One new potential case may be adding composite polymer boxes. A difficulty is that they are not in standard sizes, so creating a detail that works for all manufacturers is not easy. She said they also have difficulty matching lids in the field. Mr. Badowich added that the polywrap size table needed to be updated. Mr. Tyus said he thought Mr. Godwin was addressing it in his update of Section 610, but that he would review material he received from a supplier.

### **8. Next Meeting Date**

The next meeting of the Water/Sewer working group is scheduled for Tuesday, March 18<sup>th</sup> at 1:30 p.m. at the MAG office. The group agreed to schedule meetings for the third Tuesday of each month up through September 16<sup>th</sup>.

The meeting was adjourned at 3:00 p.m.