

Water/Sewer Working Group Meeting

Meeting Notes
February 21, 2012

Opening:

A meeting of the Specifications and Details Water/Sewer Working Group was called to order by chair Jim Badowich on February 21, 2012, at 1:35 p.m. in the MAG Agave Room.

1. Participants

Jim Badowich (Avondale), Tony Braun (NUCA), Bill Davis (ADS), Jami Erickson (Phoenix), Brian Gallimore (AGC), Mike Hook (ALPA), Mark Ivanich (Glendale), Peter Kandaris (SRP), Kelly Kokesh (ADS), Paul Nebeker (Pipe Right Now), Matt Savage (Ferguson), Javier Setovich (Peoria), Gordon Tyus (MAG), Scott Zipprich (Buckeye)

2. Cadmium Plated Bolts (Case 11-03)

This case was referred back to the working group to provide specifications for the type of plated bolts currently used in industry. The case was initiated when Mr. Savage approached Mr. Nebeker about inconsistent enforcement of the MAG standard, and the typical use of zinc plated bolts instead of the more expensive and potentially hazardous cadmium plated bolts. The revision to 610 was sponsored by Jesse Gonzales of Peoria, and later revisited by Peoria's current representative Javier Setovich. Mr. Setovich said he provided a white paper that showed cadmium was only really hazardous when airborne. Mr. Badowich said the specs should reflect what is actually being used, which typically is zinc plating, and Phoenix's use of stainless steel. Tony Braun said typically Grade A zinc plated bolts are used for underground applications. The reference is ASTM 307A. Mr. Setovich said cadmium is specified in Sections 505 and 610. Mr. Tyus said it was also specified on Detail 302-2. One suggestion was to delete Details 302-1 and 302-2 since they are out of date. The group thought preparing a new bolt section that provided options and references for the different types would be useful. Jami Erickson was asked to find the ASTM reference for the stainless steel bolts they use. There was also discussion about whether to use grade A as is typically done, or grade B as is currently shown in the specifications. Mr. Braun said mechanical joints typically use core 10 steel bolts. There were also questions about the different grades of flanges and if the bolts were designed to match them. Mr. Setovich said he will review the section and make revisions. Mr. Kandaris said while making the changes he should remove the brand name products currently listed in 610.

3. Wet Barrel Fire Hydrant Spec and Detail Update (Case 11-14)

Scott Zipprich said he had no changes made yet. He does have redlined drawings that he needs his CAD operators to update. He also asked members to send any comments. He noted at the last meeting it was decided to remove the thrust blocks and specify joint restraints as the default. Tony Braun said he was going to get CAD drawings of dry and wet barrel hydrants from manufacturers.

4. Pre-Cast Manhole Bases

Scott Zipprich said that Buckeye has developed standards for wet cast bases, and listed some of the specifications developed for Buckeye's supplement. Mr. Ivanich said that Glendale was not planning to use precast bases, and suggested the option for using them could be done in written

specifications rather than details. Mr. Zipprich did show a generic precast base detail developed for Buckeye, but agreed that it could be done in specifications, and should include the foundation and connections. He said the base preparation is similar to what is done in Flagstaff. Peter Kandarlis said using 100% AB – 57 rock (as shown in the materials sections), would require a relative density test.

5. Manhole Detail Updates

Mark Ivanich suggested MAG follow Glendale's policy of only allowing 30" manholes. Ms. Erickson said Phoenix does still have 24" manholes. Comments included the difficulty of workers entering 24" size manholes when ladders and harnesses are used to meet today's safety standards. It was agreed that the MAG manhole specifications and details did need to be updated.

6. Special Bedding for Mainline Storm Drain Pipe (Case 11-21)

Case sponsor, Syd Anderson, was not present to represent Phoenix's proposed Section 623 supplement, however, several pipe manufactures did attend the meeting to provide their feedback on the proposed change. Mr. Badowich reminded members that the last discussion focused on the need to review the complete pipe, trench and bedding systems for both rigid and flexible pipe. Bill Davis of Advanced Drainage Systems, and Engineer Kelly Kokesh, also of ADS, said their flexible pipe system uses ASTM backfill standards, and is not necessarily designed to be used with a slurry backfill. Floating of the pipe could also be a problem. Other members argued that getting the necessary compaction under the haunches of the pipe safely was difficult. There was also concern that given the nature of flexible pipe's deflection, it may not be suitable under streets, where settling could be problematic. Mark Ivanich described problems they had along Northern Avenue. Jami Erickson said they had a different problem with Fiberglass pipe in North Phoenix. Jim Badowich said the bedding and design differences of flexible and rigid pipe should be taken into account in the specifications. Mr. Davis volunteered to provide a 30 minute presentation at the next working group meeting on flexible pipe design and installation practices.

7. Next Meeting Date

Members agreed to tentatively schedule the next meeting on Tuesday, March 20, 2012 at 1:30 at the MAG office. Mr. Tyus said he would try to reserve a larger room for the next meeting.