

**MINUTES**  
**INFRASTRUCTURE REVIEW ADVISORY BOARD**  
**OAK VIEW LIBRARY**  
**December 4, 2013 8:30 a.m.**

**Members and Alternates Present**

Mike Cooper, Preston Mettler, Scott Hofer, Tim Galbraith, Phil Gundvoldson.

**Members and Alternates Absent**

Mark Cotter, Chad Huwe, Jeff Schmitt, Steve VanBuskirk, Myron Adam, Bill Kemmis, Mark Vellinga, Mark Anderson.

**Others Present**

Chad Stensland, Bruce Wilsey, Chuck Point, Kurt Peppel, Chad Hanisch, Jeff DesLauriers, Kim Buell, Clayton Jamison, Jeff Dunn, Ryan Johnson, Stacy Duchene, Todd Anawski, Eric Willadsen, Wes Philips, Travis Clark.

**Approval of Minutes of Last Meeting**

Cooper called to approve the November 6, 2013 meeting minutes. Motion was called by Hofer, seconded by Mettler. Roll Call yeses – Cooper, Hofer, Mettler, Gundvoldson, Galbraith. Noes, none. Motion passed 5-0.

**Business**

**a. Proposed Revision to Curb and Gutter and Concrete Fillet Standard Plates**

Wes Philips, Principal Engineer presented handouts on proposed revisions to the curb and gutter and concrete fillet standard plates. The half inch lip previously shown where the sidewalk meets the street cannot be within the path of travel. The details have been revised accordingly.

**Plate 650.04 – Concrete Fillet Standard Plate** The revised standard plate removes the half inch lip where the sidewalk meets the street. A slope of 1:12 is the maximum allowed in this location per the ADA. City projects have been using the revised plate as a special plate for over a year.

We will send out a mailing to insured and bonded concrete contractors to help get the word out on the revised ramp construction standard plate.

Revised plates will be posted on Engineering's website as soon as it is approved.

Cooper suggested that they listen to all three Agenda items and then make a vote.

**Plate 650.01 - Curb and Gutter Standard Plate** – The revised standard plate is primarily to clarify the 1:12 maximum slope requirement where the curb and gutter meets the sidewalk. The standard plate previously referenced plate 650.04, which caused confusion. To make room for the additional information, the S-Type curb and gutter detail was relocated to a special plate. S-Type curb and gutter is not used very frequently and the City gets complaints on the gutter slope through driveways when it is used. S-Type curb and gutter could still be used in cul-de-sacs, if desired, by using the special plate.

**Plate 650.03 SP – S Type Curb and Gutter Standard Plate.** Special plate for S Type Curb and Gutter that was previously included on plate 650.01.

**b. Proposed Revisions to Supplemental Standard Specifications – Sanitary Sewer Construction, Section 100.**

Ryan Johnson, Principal Engineer presented handout on proposed revisions to the Supplemental Engineering Design Standards.

**Section 2.4.2 – Tapping Saddles** - Strike out Tapping Saddles insert Sanitary Sewer Taps.

**Section 2.5.9 – Manhole External Frame Seal** – Strike out I/I Barrier by Strike Products is no longer an approved product. Approximately forty of these are in the system and are being monitored for consideration on future projects.

**Section 2.5.10 – New Section – Manhole External Joint Seal.** Require ASTM C877 Type III with nine inches of seal width.. Acceptable products are Infi-Sheild Gator Wrap manufactured by Sealing Systems, EZ Wrap manufactured by Press Seal Gasket Corporation, and Mar Mac Seal Wrap as manufactured by Mar Mac.

**Section 3.6.4 – Adjust Manhole** - The mortar placed between adjusting rings shall not be greater than  $\frac{3}{4}$  inch in thickness.

**Section 3.6.5 – Manhole External Frame Seal** – Manhole external frame seals are not required to be placed between asphalt lifts. Ryan Johnson will revise language, based on approval from Chad Hanisch, Eric Willadsen, and Kim Buell.

**Section 3.6.6– New Section – Manhole External Joint Seal** – shall be used on all manholes and installed in accordance with the manufactures recommendations.

**Section 3.10 – Service Connections** - Change saddle to tap.

**Section 3.16.6 – Caps and Plugs** - Services that are extended to the right away wants to make it clear that needs to be a gasket or water type plug. Thought it was necessary to spell that out.

**Section 3.17.4 – Television Inspection** – Consistent with what typically we do for inspections and testing services. City will pay for first test; any following tests are at the responsibility of contractor or developer. Now it says city will do two, want to back it will down to one and then one addition re-inspection – if needed.

**Section 4.23 – Manhole** –Unit bid price for external joint seal including will be an incidental to overall cost of manhole.

**Section 4.24 – Lined Manhole** – Include external joint seals as an incidental item to the overall cost of the lined manhole.

**Section 4.28 – Reconnect Sewer Service** – Take out tapping saddle and leaving it as tap.

**Plate 950.03** – Adding language references External Frame Seal or Adjustment Rings and External Joint Seal.

**Plate 950.04** – Adding language reference External Frame Seal and External Joint Seal.

**c. Proposed Revisions to Supplemental Standards Specifications – Water Main Construction, Section 300.**

Jeff Dunn, Principal Engineer presented handouts regarding proposed revisions. VerHey and Dunn looked at Specification changes in an attempt to combine directional drilling and trenchless specifications with sanitary sewer. City was not able to successfully combine these specifications so trenchless construction of water main specifications will remain in section 300.

Revised specifications reviewed and approved by Chad Hanisch, Eric Willadsen, Myron Adam and Dan Nebelsick, Jason Snyders, Aaron Sherwood and Micah Kemp.

Clean water act starting in January 2014 will no longer allow installation of pipe or parts of the transmission/distribution system that contain lead.

## **Section 1: General**

**1.3** - Added text to read that the contractor shall submit proposals for materials five days prior to the bid opening.

**Section 2: Materials** All Sections where applicable: \*Updated all references to Cor-Blue bolts as fluorocarbon coated alloy high strength to cover other approved manufacturer's and be in conformance with the AWWA Standards. \*Updated document text to match the City's yearly procurement contract specification text for water pipes and water appurtenances. Require material are manufactured with no lead as specified by the "Safe Drinking Water Act" to go into effect January 1, 2014.

**2.1 - Quality Control and Submittals** - Revised Ductile Iron Pipe Thickness Class to Pressure Class. Pressure Class specifies a thinner wall thickness thus reducing cost. Added DR 18 to 16-inch PVC Pipe. Added section on approved manufacturers of PVC restrained joint pipe.

**2.2 - Water Main Fittings** - Added spec on 12-mil thickness fusion bonding coating on couplers.

**2.4 - Values** - Removed section on butterfly valves as they are no longer used/allowed within the water distribution system.

**2.5 - Fire Hydrants** - Reduced rated test pressure on hydrants to meet AWWA C502 specifications. Added spec for fire hydrant markers since this is a proposed requirement for the construction of permanent fire hydrant assemblies.

**2.14 - Polywrap** - Added specifications for material on polygraph since this was not previously provided.

**2.15** - Added specifications on temporary water/water main bypass pipe.

**Section 3: Construction Requirements** All sections where applicable: Reconfigured text to group water main connections and water services since they are "like work".

**3.7 - Water Main Connections** - Added more detail for water main connections requiring that the contractor is ready to install new systems to get customers back into service. This will mean having parts of system bolted and ready to be installed prior to shutting the water off and cutting the pipe.

**3.15 - Hydrostatic Pressure Testing** - Revised hydrostatic pressure testing for increase pressure test time to four hours in lieu of two hours and increase test pressure by 30 PSI for water specifications and hold for a period of four hours for water mains larger than 12-inches in diameter.

**3.17 - Disinfection, Bacteriological and Pressure Test Sequencing** - Added new section on disinfection, bacteriological and pressure test sequencing. Added language that filling of new line segments needs to be completed during regular business hours between 8:00 a.m. and 5:00 p.m.

**3.24 - Temporary Water/Water Main Bypass Pipe** - Added new section on construction of temporary water/water main bypass pipe.

## **Section 4.0: Method of Measurement and Basis of Payment**

- All sections where applicable: Grouped water main connections and water services since they are "like work".

**4.3 - Water Main** - Updated text to include polywrap and reaction blocking as being incidental to water main construction. Added compensation for structural BMP's to dispose of heavily chlorinated water.

**4.19 - Insulation** - Changed bid item for insulation to lineal foot to coincide with sanitary sewer.

**4.25 - Temporary Water/Water Main Bypass Pipe** - Revised water main bypass method of payment to be per each service.


There are three proposed revisions that the Board can take action on today to support. Motion Item B to work on Design Standards for Temporary Seals for Manhole Covers. Group was confident that it would be taken care. Move for approval for all three proposed revisions by Gundvoldson seconded by Hofer. Motion carries. Roll Call yeses – Cooper, Hofer, Mettler, Gundvoldson, Galbraith. Noes, none. Motion passed 5-0.

Cooper asked if there were any specific topics for future agenda items next year. Jeff Dunn had talked to IRAB a few months ago about public water mains under private streets. He would like to get a group together in the next two week and come back in January or February with a Memorandum of Understanding. Kurt Peppel added that the group addressing Right-of-Way regulations including landscaping and mailboxes will be getting together. Clayton Jamison suggested putting future discussion items on the Agenda.

Motion to approve 2014 IRAB Calendar dates by Gundvoldson seconded by Hofer. Roll Call yeses – Cooper, Hofer, Mettler, Gundvoldson, Galbraith. Noes, none. Motion passed 5-0.


There was not a motion to adjourn.

The next IRAB meeting is set for January 8, 2014 at 8:30 a.m., at the Oak View Library.



Maureen Buller

Secretary



Mike Cooper

Director of Planning and Building Services