

## **Construction and Materials Specifications Manual Revision 13 Summaries**

These summaries are for information purposes and highlight major or substantial changes only.

### **Summary of Changes to Form 200 – General Conditions**

---

#### **200.03.13 - Proof of Insurance and Claims Protocol**

Last paragraph deleted.

### **Summary of Changes to Form 400 - Specification for the Installation of Watermains**

---

**General –** All references made to the application of corrosion protection (primer, mastic and tape) to restraints has been revised to include protection of bolts.

#### **400.04 - Approved Watermain Materials**

Second paragraph added.

*“Pipe material used for repairs or minor modifications shall be the same material as the watermain being worked on.”*

#### **400.18.05 - Jointing Flange Pipe**

The use of Red Rubber Gaskets is not permitted in the Drinking Water System.

The following paragraph has been deleted:

*Gaskets shall be red rubber full faced 3mm thick in accordance with dimensions given in the latest edition of ASME B16.21 for Non Metallic Gaskets for Pipe Flanges.*

Replaced with the following:

*“All gaskets shall be NSF/ANSI 61 compliant”*

#### **400.21 - Backflow Preventers**

This section has been revised per the following:

##### **.21 BACKFLOW PREVENTERS**

*Backflow preventers used for watermain commissioning purposes or on temporary bypass systems shall be CSA-Certified reduced principal (RP)*

*backflow preventers and shall be supplied by the City in accordance with Form 400 - Appendix A, Section 2.1.*

*Backflow preventers shall be field tested by the Contractor in accordance with the MECP Watermain Disinfection Procedure.*

**400.23.01 -** Reference to OPSD 1104.02 removed and replaced with WM-207.06.

Fifth paragraph added:

*Couplings used to extend copper water services shall be protected with an approved corrosion protection tape system (primer, mastic and tape).*

## **Summary of Changes to Form 400 Appendix A- Procedure for the Disinfection, Testing and Connection of Watermains**

---

**Section 1.2** -Definitions for Category 1 and Category 2 watermain breaks – Removed.

**Section 1.6** -Intentionally Deleted. The Forms listed below have been removed from the specifications as they are for internal use only:

- Watermain Commissioning Form – Swabbing and Hydrostatic Testing Record
- Watermain Commissioning Form – Disinfection and Chlorine Residual Sample Record
- Record of Watermain Break Form

**Section 2 -** Revised - Removed reference to the Forms listed above.

**Section 2.1** -Revised to add the paragraphs below to address the backflow prevention requirements per the Ministry of the Environment, Conservations and Parks (MECP) Watermain Disinfection Procedure:

*The backflow preventer shall be field tested by the Contractor, by a qualified person who holds a valid backflow prevention tester's licence, in accordance with the MECP Watermain Disinfection Procedure and CSA Standards B64.10 and B64.10.1*

*For the purposes of CSA Standard B64.10, a backflow prevention tester's licence shall be an Ontario Water Works Association (OWWA) Certified Cross Connection Control Specialist Certificate or a MECP-approved equivalent. In addition to the list of professionals in Table 1 of Figure E.1. of CSA Standard B64.10, a Certified Operator or a Water Quality Analyst with a backflow prevention tester's licence shall also be authorized to test, install, relocate, repair or replace backflow preventers used in the installation and commissioning of new watermains.*

*If a backflow preventer is relocated within the same day, testing is only required for the first installation of the day provided that the backflow*

*preventer is relocated by a Certified Operator who will guard against damage during transit and re-installation.*

*The Contractor shall provide a copy of all backflow preventer testing documentation to the City Inspector, and shall include test results, the backflow prevention tester's name, licence number and signature.*

**Section 5 -** Revised - Removed reference to the Forms formerly listed under section 1.6.

### **Summary of Changes to Form 500 – Specification for Sewer Pipe Materials and CCTV Inspection**

---

**500.06 -** CCTV Sewer Inspection - Revised.

Summary:

- Added reference to PACP/MACP/LACP inspection protocols according CSA (Canadian Standards Association) and NASSCO (National Association of Sewer Service Companies)
- Guidance added relating to video formatting and key field requirements to be made as part of a video information screen, such as 'From' and 'To' Manhole ID's, Contract #, Contractor, Street Name, Date/Time, etc.
- Further guidance to CCTV operators on what the City expects as value added features of the inspection, such as performing an internal scan of the start, finish and any uncharted manhole(s).
- General data requirements to normalize key inspection details such as Compkeys, video format, NASSCO database formatting, video and inspection report naming conventions
- Updated submittal requirements regarding digital submissions, including portable hard drives, organization of data, and labelling information.

### **Summary of Changes to Form 800 – Specification for Hot-Mix Asphalt**

---

**800.02.01.07-** JMF Adjustments - Added

#### **.02.01.07 JMF Adjustments**

*1151.04.02.04 of OPSS.MUNI 1151 is amended by the addition of the following:*

*The Contractor shall be permitted to adjust the JMF to more closely reflect the mix being produced. The number of field adjustments to the JMF shall be limited to three for each mix design submitted, one prior to the start of production and a maximum of two during production. Field adjustments to the JMF shall be limited in scope such that:*

- a) *The net impact of all field adjustments to the JMF does not exceed any of the maximum field adjustments to the JMF in Table 8 of OPSS.MUNI 1151 in comparison to the original JMF submitted*
- b) *Does not drop below the Minimum Asphalt Cement content in Table 800-1.*

*JMF adjustments shall not be accepted once placement of the specific mix type has been completed.*

#### **Standard Road Drawings:**

---

- **RD-100.03** - Utility Keyhole Excavation and Reinstatement - New Drawing
- **RD-120** - Typical Transit Shelter Pad – Revised - Removed grounding

#### **Standard Watermain Drawings:**

---

- **WM-201.05** – Check Valve and Chamber, 150mm to 300mm Dia. Watermain – New drawing

#### **Approved Products List Updates**

---

<https://www.roadauthority.com/mpl/mpl.asp?MPIShortName=Hamilton+MPL>

#### **Products Removed:**

- Mueller Catch Basins, Maintenance Holes and Valve Chambers Frames & Cover (Dec. 2020)
- Fernco EZ Tap Sewer Lateral Saddles (Dec. 2020)

#### **New Approved Products:**

- Soleno Galvanized CSP – Culverts Pipe (Dec. 2020)
- Wapro – Wastop Sewer Outfall Backwater Valve (Dec. 2020)