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SEWER PIPELINE AND CULVERT REHABILITATION BY CURED-IN-PLACE PIPE

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8.01 SCOPE OF WORK

This specification covers the requirements for the rehabilitation of sewer pipelines by the installation of a tight fitting cured-in-place pipe liner.

8.02 REFERENCES

This specification refers to the following standards, specifications, or publications:

ASTM International

- D 638 Standard Test Method For Tensile Properties of Plastics
- D 790 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
- D 2990 Standard Test Methods for Tensile, Compressive, and Flexural Creep and Creep-Rupture of Plastics
- F 1216 Standard Practice for Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube

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- F 1743 Standard Practice for the Rehabilitation of Existing Pipelines and Conduits by Pulled-in –Place Installation of Cured-in-Place Thermosetting Resin Pipe (CIPP)
- S-32
- OPSS.MUNI 460

8.03 DEFINITIONS

For the purpose of this specification, the following definitions apply:

- a) **Cured-In-Place Pipe (CIPP) Lining** means the rehabilitation of sewers and watermains by installation of a CIPP liner system within an existing pipe.
- b) **Engineer** means a professional engineer licensed by the Professional Engineers Ontario to practice in the Province of Ontario.
- c) **Resin** means a general purpose, unsaturated, styrene-based, thermoset resin and catalyst system or an epoxy resin and hardener that is compatible with the inversion process.

8.04 SUBMISSION & DESIGN REQUIREMENTS

Submission requirements shall be in accordance with OPSS.MUNI 460.

8.05 MATERIALS

Material requirements shall be in accordance with OPSS.MUNI 460.

8.06 CCTV EQUIPMENT

Equipment requirements shall be in accordance with City of Windsor S-32 CCTV Sewer Inspection.

8.07 CONSTRUCTION

Construction requirements shall be in accordance with OPSS.MUNI 460. All lateral connections to the mainline sewer must have top hats or tee liners installed to a minimum of 250mm from the mainline sewer into the lateral pipe. The lateral connection top hats or tee liners installation will be undertaken immediately after the mainline sewer lining is completed.

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8.08 CCTV INSPECTION

CCTV Inspection requirements shall be in accordance with City of Windsor S-32 CCTV Sewer Inspection.

8.09 QUALITY ASSURANCE AND TESTING

Quality Assurance and Testing requirements shall be in accordance with OPSS.MUNI 460.

8.10 MEASUREMENT FOR PAYMENT

Measurement for payment requirements shall be in accordance with OPSS.MUNI 460. Top hat or tee liners shall be paid under the applicable item at the unit rate in the Schedule of Unit Prices.

8.11 BASIS OF PAYMENT

Basis of payment requirements shall be in accordance with OPSS.MUNI 460