

Abstract Title – CIPP for Hespeler Trunk Sanitary Sewer

The presentation will focus on feasibility analysis, planning and development of tender documents for CIPP rehabilitation of the Hespeler Trunk Sanitary Sewer. The Hespeler Trunk Sanitary Sewer is located in the City of Cambridge, Ontario, Canada along the Speed River and services a population of over 25000 people. The sanitary sewer primarily services the Silverheights neighborhood residential community, bounded by Highway 24 to the west and northwest, Blackbridge Road to the north, and the Speed River to the south and east. Access to 40 year old sanitary sewer is challenging as the surrounding area has not been previously developed. Furthermore significant planning is needed to implementation of a noteworthy overland by-pass to allow the rehabilitation process to advance into construction. The project is further complicated by the required to line a sewer in the presence of significant water coarse.

The presentation will document the process by which we evaluated the feasibility for rehabilitating approximately 1,400m of 675-600mm diameter vitrified clay sewer and eighteen manholes out-letting at the Hespeler Waste Water Treatment Plant.

The project challenges that will be discussed include:

- Identifying the problem
- Evaluation of alternative solutions;
- Selection and reasoning process of a preferred solution
- Adapting site specific mitigation measures for the constraint
- Developing a rehabilitation program with the owner
- Establishing constructability plans

Securing approvals for construction