

#### Howitt Creek Emergency Sewer Encasement and Erosion Protection



#### **City of Guelph**







J.G. GOETZ CONSTRUCTION LIMITED



November 2024



### Agenda

• Project Identification and Location

**....** 

- Existing Conditions
- Design Solution
- Construction and Staging
- Outcome

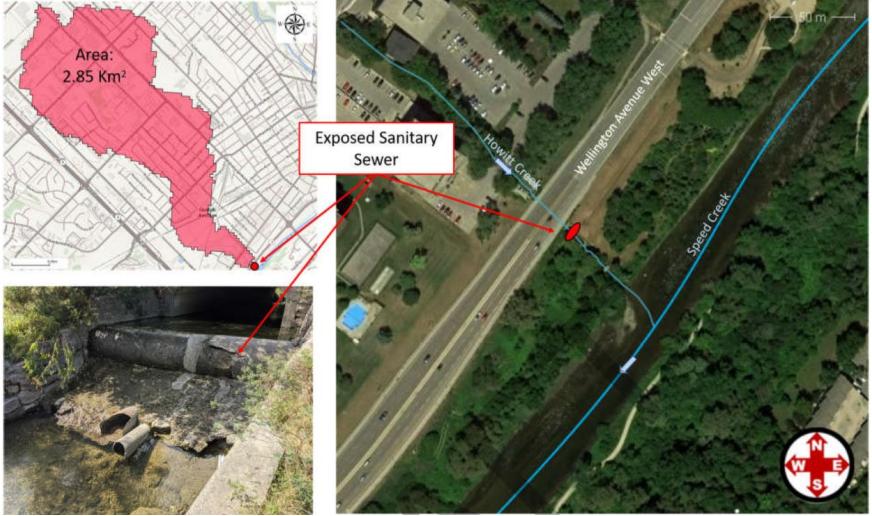


### **Project Identification**

- Issue noticed during erosion inspections completed as part of the SWM Master Plan
- Trunk sewer was exposed and experiencing severe erosion and undermining
- Failure would be catastrophic



#### **Project Location**





#### Existing Conditions

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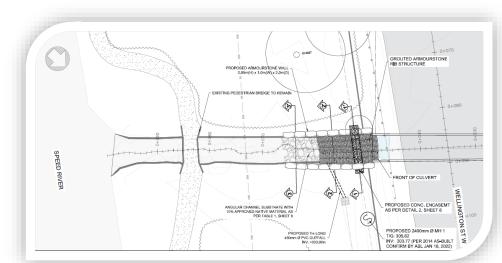


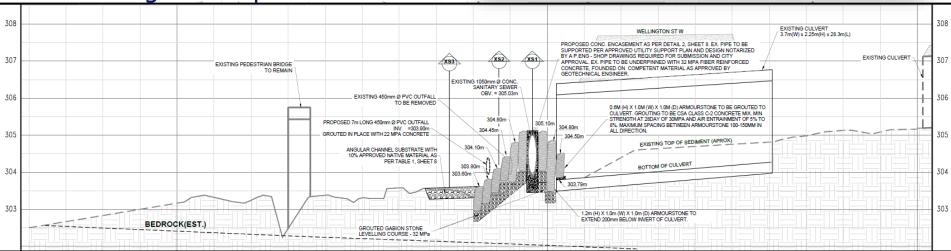
# **Design Solution**

#### A summary of the detailed works include:

- Two 2400mm dia. MHs
- Sanitary sewer and creek bypass
- Concrete encasement of existing sewer
- Angular channel substrate and armourstone rib structure over exposed pipe









### **Construction and Staging**

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# Sewer bypass











### Creek bypass











### Concrete Encasement



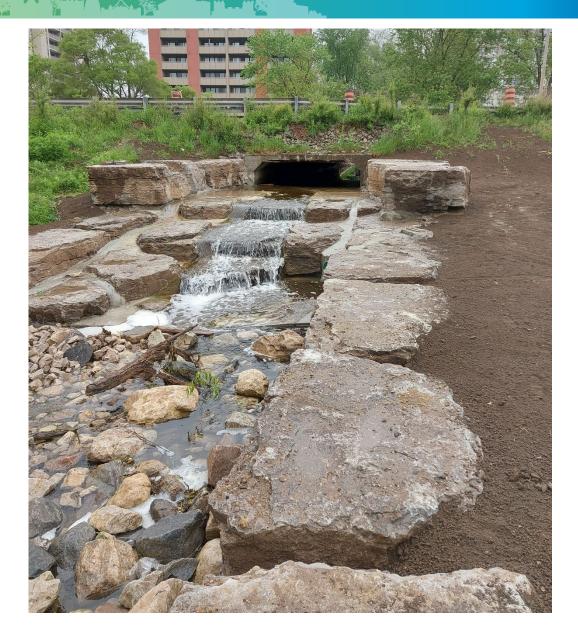


#### Armourstone Retaining Walls and Creek Bed Ribbing











#### Questions?

#### Contact info:

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