



**ONTARIO CHAPTER**  
Tunnelling Association of Canada  
Association canadienne des tunnels

## INVITATION

### Calamity Creek Twin Culverts, Hwy# 11, New Liskeard, ON “EPB Pipejacking Through Challenging Ground Conditions”



- Presenters:** Walter Trisi, Vice President / General Manager  
CRS Tunnelling
- Date & Time:** Thursday, December 10, 2020  
Presentation: 4:00pm
- Location:** Online Webinar  
Microsoft Teams
- Cost:** TAC Members: n/a  
Non-Members: n/a  
Government Employees: n/a
- RSVP:** [Register Online](#)

### Presentation Overview

The Twin Culvert Installation, under Highway # 11, 2.6km north of the Hwy#11/65 Junction (New Liskeard); involved the installation of two (2) x 150m long, 2.1m internal diameter reinforced concrete pipe culverts under Highway # 11. Both tunnel drives were to be parallel runs spaced 1.5 tunnel diameters apart. These new culverts are to replace the existing decaying concrete box culvert that currently crossed Highway # 11.

The tunnels were constructed utilizing an Earth Pressure Balance (EPB) Pipe Jacking (PJ) Tunnel Boring Machine (TBM); to mine through the varying and challenging geological conditions of the project.

This paper will discuss the challenges with the design and construction of the launch and retrieval shafts, the geological conditions located along the alignment of the twin tunnels, mining related challenges due to obstructions encountered, contaminated soils, 24hour mining, depth under critical infrastructure and working in the Ontario North during winter.

Walter is Vice President and General Manager of CRS Tunnelling Inc.

### Speaker Bios:



Walter graduated from Ryerson University in Toronto, in 1995, with both a Civil/Survey Engineering Degree and a Project Management Certificate.

Walter has over 25 years of experience in Tunnelling and Underground Construction.

Walter is the immediate past president of the Tunnelling Association of Canada Ontario Chapter; He is a Board Member of CATT (Centre for Advancement of Trenchless Technology); and teaches a Trenchless course at George Brown College, Casa Loma Campus in Toronto.