

Calamity Creek Twin Culvert Installation, Temiskaming Shores, ON

CRS Tunnelling Inc. was awarded the trenchless construction portion of the Calamity Creek Culvert replacement project by prime contractor Construction Demathieu Bard (CDB). This Ministry of Transportation (MTO) project is located in Temiskaming Shores, ON, on Highway 11, 2.6km North of the North 11/65 Junction. The project involved the installation of two 150m long, 2.1m internal diameter reinforced concrete pipe culverts under Highway 11, both drives being parallel runs spaced 1.5 tunnel diameters apart. These new culverts are to replace the existing decaying concrete box culvert that currently crosses highway 11. The tunnels are to be excavated utilizing an Earth Pressure Balance (EPB) Pipe Jacking (PJ) Tunnel Boring Machine (TBM); to mine through the varying and challenging geology of the project.

This paper will discuss the challenges that were overcome in dealing with the design and construction of the launch and retrieval shafts, the ground conditions located along the alignments of the tunnels, mining related issues, issues with mobilizing projects in Northern Ontario, as well as the difficulties of working on a tight jobsite where multiple contractors have ongoing operations.