



**ADIT**  
ENGINEERING

**Experts in Trenchless Crossing Design.  
AGILE ENGINEERING. ON DEMAND.**

## **BOW RIVER DIRECT PIPE© MICROTUNNEL BORE**



### **CONTRACTOR'S PROCESS**

Geotechnical Planning,  
Trenchless Engineering,  
Structural Pipe  
Lifting Engineering

*Length:* 240 M

*Material:* 1066.8 Mm Steel Pipe

*Method:* Direct Pipe© Microtunnel

This project was undertaken as a contractor led design/build construction project. ADIT was brought onto the project by the existing technical team after the utility owner had awarded the project.



We provided geotechnical planning, trenchless engineering and structural pipe lifting engineering. The crossing consisted of approximately 240-m of 1066.8-mm steel pipe installed using the Direct Pipe© microtunnel method installed through bedrock, under the Bow River, to facilitate pull in of electrical conduits for transmission and distribution systems.

We worked closely with the contractor, the contractor's technical team (including the major equipment manufacturer) and the project owner to supply timely designs and advice.

Challenges to the project included geotechnical characterization made difficult by recent flooding, confined work spaces adjacent to a major highway and electrical substation and high visibility and public access to the work site during construction.

We assisted in overcoming these challenges by applying creative, team thinking and building consensus at all levels of the project.

### **CONTACT US**

#### **ADIT Engineering**

Suite 130, 251 Midpark Blvd. SE  
Calgary, Alberta, Canada T2X 1S3  
Phone: + 1 (403) 460-3038  
Email: [info@adit-eng.com](mailto:info@adit-eng.com)