

1.0 Technical Piping Specifications

Description	Pipeline	HDD	Riser Site
	NPS 8 (219.1 mm OD)	NPS 8 (219.1 mm OD)	NPS 8 (219.1 mm OD)
Pipeline Material	Existing: CSA Z245.1 Carbon Steel Proposed: CSA Z245.1:22 Carbon Steel	Existing Crossing: CSA Z245.1 Carbon Steel Proposed HDD: CSA Z245.1:22 Carbon Steel	CSA Z245.1 Carbon Steel
Wall Thickness	Existing: 6.4 mm Proposed: 6.4 mm	Existing Crossing: 8.2mm Proposed HDD: 6.4mm	8.2mm
Material Grade	Existing: Gr. 290 Cat I / X42 Proposed: Gr. 359 Cat II M5C	Existing Crossing: Gr. 290 Cat I Proposed HDD: Gr. 359 Cat II M5C	Gr. 359 Cat II
Pipe Manufacturing Process	Existing: TBC Proposed: SMLS or ERW	Existing Crossing: TBC Proposed HDD: SMLS or ERW	SMLS or ERW
Coating	Existing: YJ New: FBE	Existing Crossing: YJ New HDD: FBE / ARO	Note 4
Applicable Crossings	Pipeline, Power Lines, Unnamed Creek	River	N/A
Corrosion Allowance	0 mm	0 mm	0mm
Minimum Design Temperature	-5°C (below ground)	-5°C (below ground)	-45°C (above ground)
Maximum Design Temperature	40°C	40°C	40°C
Installation Temperature	-5°C (-30° to +30°C)	0°C	-5°C (-30° to +30°C)