

DESIGN SPECIFICATIONS

<u>Pipe</u>	<u>Pipe - NPS 12</u>	<u>Units</u>
Material	Steel	
Diameter	323.85	mm
Wall Thickness	6.4	mm
Grade	359	MPa
Specification	CSA Z245.1	
Material Toughness	CSA Z245.1	
Pipe Coating Specifications	CSA Z245.20	
Cathodic Protection	CGA OCC-1	
Cathodic Specification	Double Fusion Bond Epoxy	
Class Location	4	
Design Pressure	5675	kPa
Hoop Stress at Design Pressure	40% SMYS*	
Maximum Operating Pressure (MOP)	1200	kPa
Hoop Stress at MOP	8.5% SMYS*	
Minimum Cover	0.9	metre
Fittings	CSA Z245.11	
Flanges	CSA Z245.12	
Valves	CSA Z245.15	
Test Medium	Nitrogen	
Test Pressure	1700	kPa
Hoop Stress at Test Pressure	12% SMYS	

*SMYS – Specified Minimum Yield Strength