

DESIGN SPECIFICATIONS

<u>Pipe</u>	<u>Pipe - NPS 8</u>	<u>Units</u>
Material	Steel	
Diameter	219.1	mm
Wall Thickness	4.8	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	Yellow Jacket	
Class Location	4	
Design Pressure	440	kPa
Hoop Stress at Design Pressure	2.8% SMYS*	
Maximum Operating Pressure (MOP)	380	kPa
Hoop Stress at MOP	2.4% SMYS*	
Minimum Cover	0.9	metre
Fittings	CSA Z245.15	
Flanges	CSA Z245.15	
Valves	CSA Z245.15	
Test Medium	Nitrogen	
Test Pressure	700	kPa
Hoop Stress at Test Pressure	4.4% SMYS	

/u  
/u

\*SMYS – Specified Minimum Yield Strength

<u>Pipe</u>	<u>Pipe - NPS 6</u>	<u>Units</u>
Material	Polyethylene	
Diameter	168.3	mm
Wall Thickness	15.28	mm
Grade	SDR 11	
Specification	CSA B137.4	
Material Toughness	N/A	
Pipe Coating Specifications	N/A	
Cathodic Protection	N/A	
Cathodic Specification	N/A	
Class Location	4	
Design Pressure	440	kPa
Hoop Stress at Design Pressure	n/a	
Maximum Operating Pressure (MOP)	380	kPa
Hoop Stress at MOP	n/a	
Minimum Cover	0.9	metre
Fittings	CSA B137.4	
Flanges	N/A	
Valves	CSA B137.4	
Test Medium	Nitrogen or Air	
Test Pressure	700	kPa
Hoop Stress at Test Pressure	n/a	

/u

<u>Pipe</u>	<u>Pipe - NPS 4</u>	<u>Units</u>
Material	Polyethylene	
Diameter	114.3	mm
Wall Thickness	10.38	mm
Grade	SDR 11	
Specification	CSA B137.4	
Material Toughness	N/A	
Pipe Coating Specifications	N/A	
Cathodic Protection	N/A	
Cathodic Specification	N/A	
Class Location	4	
Design Pressure	440	kPa
Hoop Stress at Design Pressure	n/a	
Maximum Operating Pressure (MOP)	380	kPa
Hoop Stress at MOP	n/a	
Minimum Cover	0.9	metre
Fittings	CSA B137.4	
Flanges	N/A	
Valves	CSA B137.4	
Test Medium	Nitrogen or Air	
Test Pressure	700	kPa
Hoop Stress at Test Pressure	n/a	