6" Nom Pipe Sch 40 — 6.625 +.062 −.031 — wall .280 +000 −12.5%

6.687 × .245 wall — 6.197 I.D.

6.594 × .245 wall — 6.104 ID

sch 80 — 6.625 +.062 −.031 — wall .432 +000 −12.5% (.378)

6.687 × .378 wall — 5.931 ID ✓

6.594 × .378 wall — 5.838 I.D. ✓

~~ASTM A-513 ERW 1010~~

~~ASTM A 120~~ A-53 CW Pipe S_y = 25 ksi

Barlows Formula (Theoretical Burst Pressure

$P = \frac{2ST}{D}$

S = Stress = S_y 25 ksi, S_u = 45 ksi

T = wall thickness = .378 in

D = O.D. = 6.594 in

$= \frac{(2)(45{,}000)(.378)}{6.594}$

P = 5,159 psi

Pipe PV	B, TT Safety	10/23/13	2

6" NOM
sch 80