

Z-8-11

~~CONFIDENTIAL - U.S. EYE FOR THE WORLD~~

1. [REDACTED]

RSTG@CUSTERTEL.NET

$$\left(20 \frac{\text{lbs}}{\text{IN}^2}\right) \left(62.4 \frac{\text{lbs}}{\text{FT}^3}\right)^{-1} \left(\frac{144 \text{ IN}^2}{1 \text{ FT}^2}\right) = 46.15'$$

$$\left(30 \frac{\text{Ft}}{1}\right) \left(62.4 \frac{\text{lb}}{\text{Ft}^3}\right) \left(\frac{1 \text{ Ft}^2}{144 \text{ in}^2}\right) = 13 \text{ psi}$$

$$h_f = \frac{10.44 (L) (Q_{GPM})^{1.85}}{C^{1.85} (d_{in})^{4.8655}}$$

C = 140 NEW H₂O PIPE

C = 100 Ex: 57 (5 yrs old) H₂O P.P.E

$L \approx 175'$, $d = 1.5''$, $Q = 4.5 \text{ gpm}$

$$0.43' \leq h_f \leq 0.81' \rightarrow (0.81 \frac{ft}{1}) (62.4 \frac{lbs}{ft^3}) (\frac{1 ft^2}{144 in^2}) = 0.35 \text{ psi}$$

BLO

DOUBLE CHECK - 1/2" - 2" SERIES 850L @ 5 gpm $\rightarrow$ HL $\approx$ 5 psi

DUAL CHECK - 1/2" - 1" SERIES 510 @ 5gpm $\rightarrow$ HL $\approx$ 5 psi

WWW.MEDIA.WATTSWATER.COM/C-BEBCO.pdf

$$\text{PRESS. @ HOUSE} = 13 - 0.35 - 5 = 7.65 \text{ psi}$$

UNIFORM PLUMBING CODE REQUIRES 15 psi @ EACH FIXTURE IN A HOME

