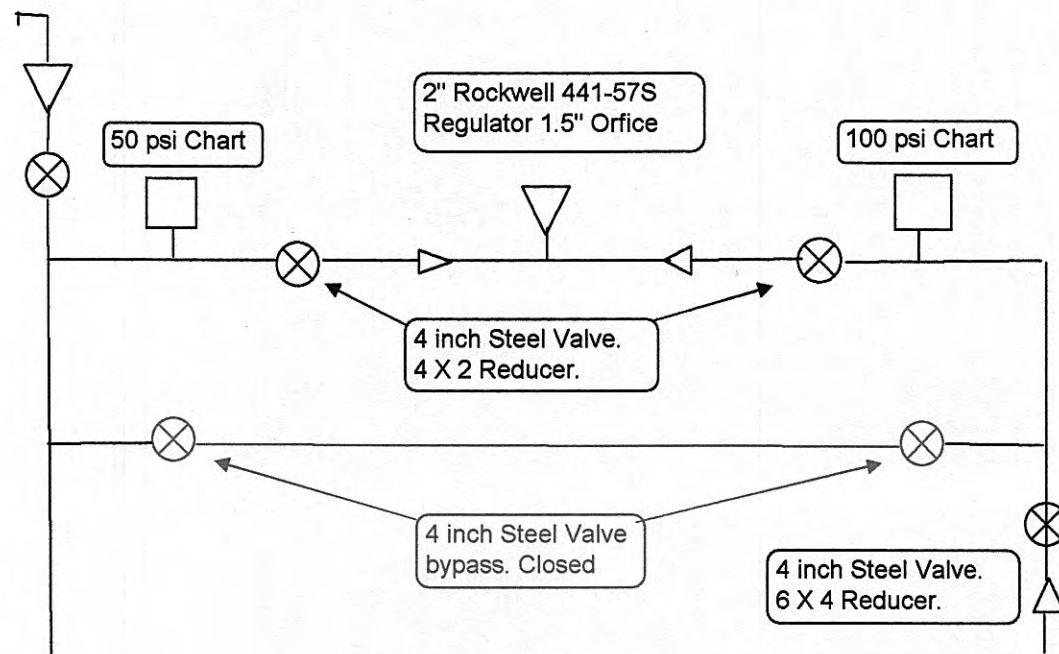


3" Rockwell 257S Safety Relief Valve
Brown Spring 24 - 48 psi

Pansy Hill Profile



Pansy Hill Regulator
Station

Recalculated 8/15/2007 rah

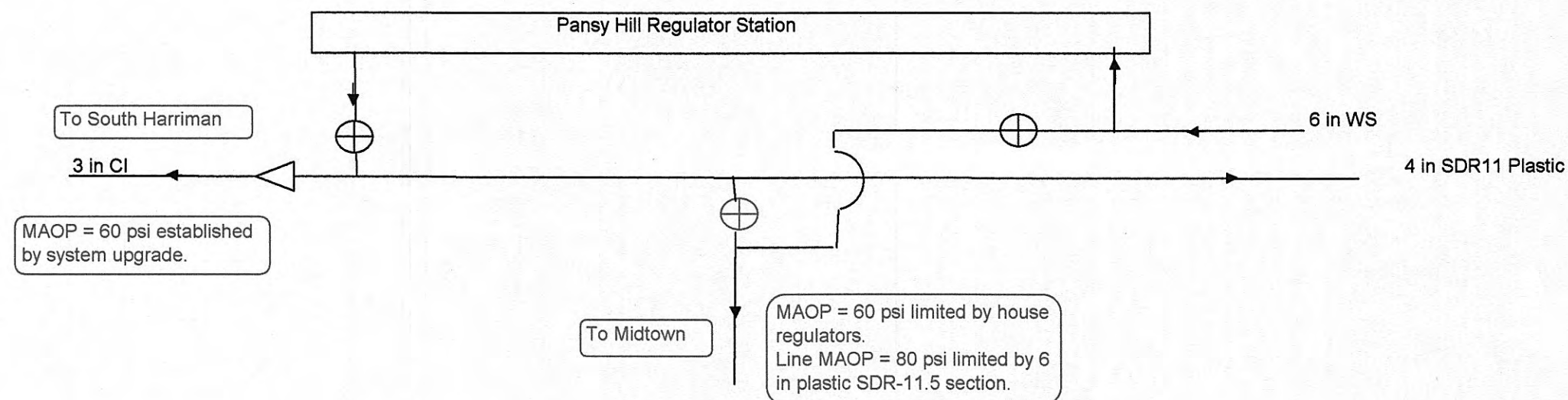
Inlet	55	P1a	69.7	1.894
Outlet	32	Poa	46.7	
		P1a/Po2	1.493	
K	4270			
Q1	139943	scfh		

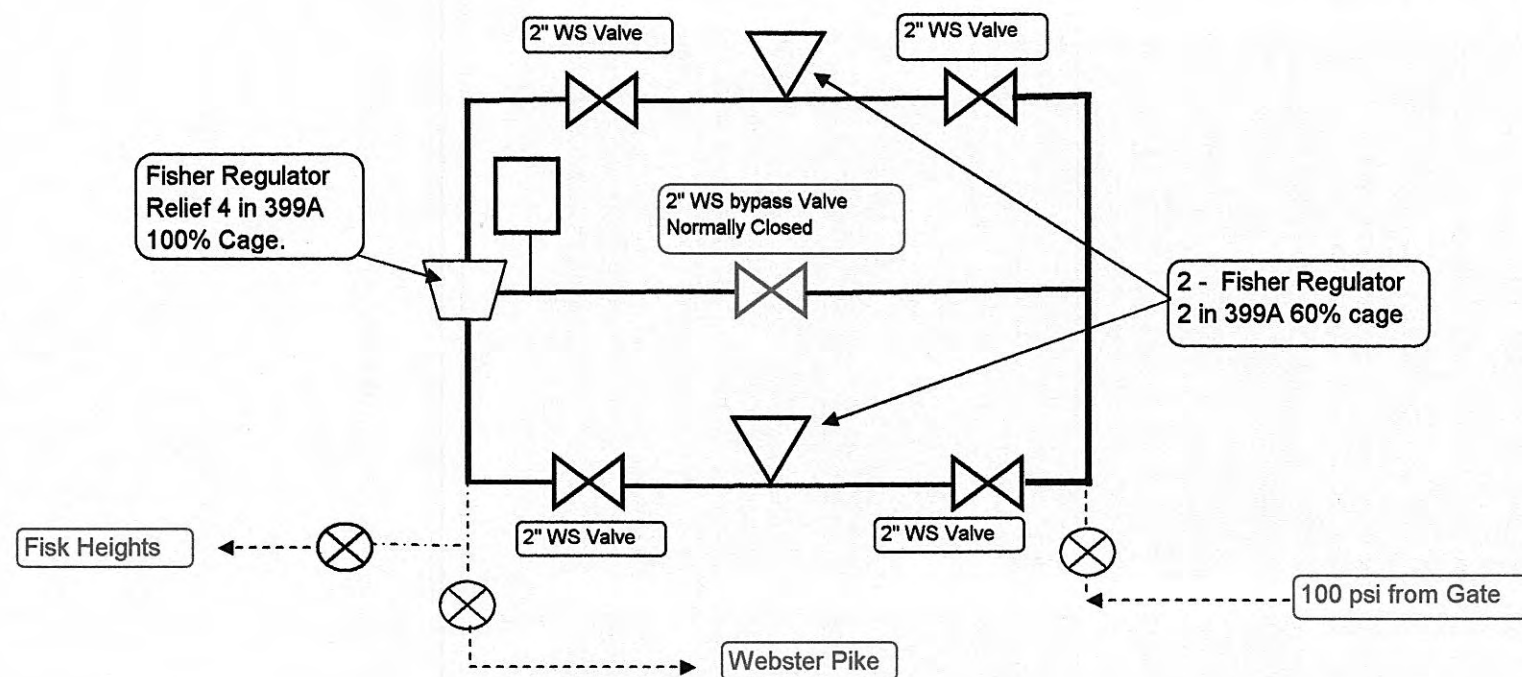
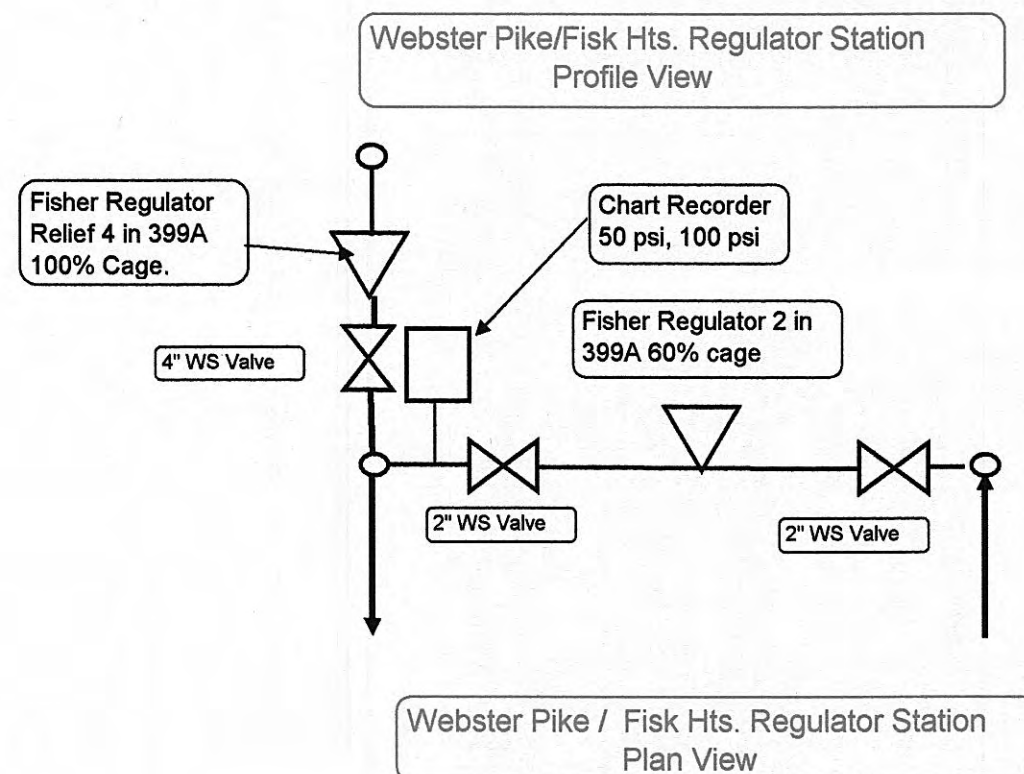
2" Rockwell 441-57S Regulator 1.5" Orifice
1. $Q = K \cdot (P_o(P_1 - P_o))^{0.5}$
2. $Q = (K \cdot P_1) / 2$
Use Formula 1 if $P_1/P_2 < 1.894$
Use Formula 2 if $P_1/P_2 > 1.894$
K=4270 pg 5

Inlet	32	P1a	46.7	1.894
Outlet	0	Poa	14.7	
		P1a/Po2	3.177	
K	10100			
Q2	235835	scfh		

3" Rockwell 257S Safety Relief Valve
Brown Spring 24 - 48 psi
Use Formula 2 if $P_1/P_2 > 1.894$

Pansy Hill Plan View





Capacity Calculations

Recalculated 8/16/2007 rah

Webster Pike / Fisk Hts. Regulator Station
MAOP System 60 psi Limited by House Regulators

P1 100 psi
Cg 1290
Capacity 190872 scfh

Fisher Regulator 2 in 399A 60% cage 2 in line in/out.
pilot 161Z with spring 10-125 psi
 $Q = P1 + 14.7 * Cg * 1.29$
Inlet 100 psi
outlet 30 psi Regulator 1 & 2

P1 37
build 5
G 0.6 for natural Gas
T 60 degrees F for this area
Capacity 424556 scfh Relief

To recalculate capacities enter the new set point values (blue numbers) and new capacities will show up. (red Numbers). Build values are in table 4 page 5 of bulletin.

Fisher Regulator Relief 4 in 399A 100% Cage.
Pilot 6365 Red Spring load 35-125 psi.
Set Point 37 psi for Relief

$Q = P1 + build + 14.7 * Cg * (520/GT)^{.5}$
Assume 60 DegF for gas

- ⊗ Below Ground Valve
- ⋈ Above Ground Valve
- ⋈ Above Ground Valve Closed

