

FRICTION
LOSS
CALCULATION

Date _____

Project _____

Ref. Tables _____

Avail. Static PSI _____

Zone _____

Tap Size _____

Head _____

Meter Elev. _____

Nozzle _____

#	SIZE	COMPONENT	GPM	DISTANCE	PSI LOSS
1		lateral			
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21		TOTAL DISTANCE (line#1thru#20)			

$[L_c = (\text{line \#21}) + 100 = \text{_____}] [F_f = \text{_____ PSI/100ft}]$

22		TOTAL LATERAL LOSS (line#1thru#20)			
23		control valve			**
24		minimum head pressure			
25		elev.± (ft x.433)			
26		TOTAL VALVE LOSS= V_n (#22thru#25)			

27					
28		PVC main			
29		PVC main			
30		PVC main			
31					
32		TOTAL DISTANCE (#27thru#31)			

$[L_m = (\text{line \#32}) + 100 = \text{_____}] [F_m = \text{_____ PSI/100ft}]$

33		TOTAL MAIN LINE LOSS (#27thru#31)			
34		elev.± (ft x.433)			

35					
36		pipe			
37		B. P.			
38		pipe			
39		water meter			**
40		service line			
41					
42					
43		TOTAL PSI LOSS (#26+(#33thru#42))			
44		% margin			
45		MINIMUM OPERATING PSI (#43+#44)			
46					
47					

** should not exceed 10% of Avail. Static PSI