DESIGN SPECIFICATIONS Lot #8 HARBOUR III

LINE	COLOR	LENGTH	ASS. G.S. ELEV. (ft)	DESIGN HEAD (ft)	HOLE SIZE (IN)	# HOLES	HOLE SPACING (ft)	FLOW per HOLE (gpm)	FLOW per LINE (gpm)
1	BLUE	96'	91.5	3.7	9/64	12	8	0.451	5.41
2	RED	96'	92.6	2.6	5/32	12	8	0.466	5.59
3	yellow	96	93.2	2.0	5/32	14	6.9	0.409	5.73
4	WHITE	96	94.2	3.0	5/32	12	8	0.501	6.01
5	BLUE	96	95.2	2.0	11/64	12	8	0.495	5.94
6	RED	76'	96.4	4.6	9/64	10	7.6	0.503	5.03
7	WHITE	50'	99.0	2.0	11/64	7	7.1	0.495	3.47

Total = 606'

Total = 37.2

DOSE VOLUME CALCULATION

(≈245' 2" PVC)(16.2 gal/100ft) = 39.7

(606' 1¼" PVC)(6.4 gal/100') = 38.8 x 5

Dose Volume = 234 gal

CHECK VALVE CALC

Vol. SUPPLY = 47.8 gal

¼ Dose Vol = 58 gal

47.8 < 58.0

∴ NO CHECK VALVE NEEDED

FRICTION LOSS CALC

(245' 2" PVC)(2.62'/100')

= 6.4 + 20% = 7.7' loss