

HOWARD COUNTY HEALTH DEPT. - FLOOD DOSED WORK SHEET

Project: _____ Date: _____

Installer: _____

Refer to 410 IAC 6-8.2-73

Daily Design Flow in one dose + Drainback (Table 1) = _____ gallons/day.

Pump Discharge Rate (Table 2) = _____ gallons/minute.

Total Head

Static Head (Elevation difference between pump off and the inlet of the distribution box)

+ _____ feet

Fitting Friction Loss (multiply the total equivalent footage found using table 3 by the friction loss from table 4)

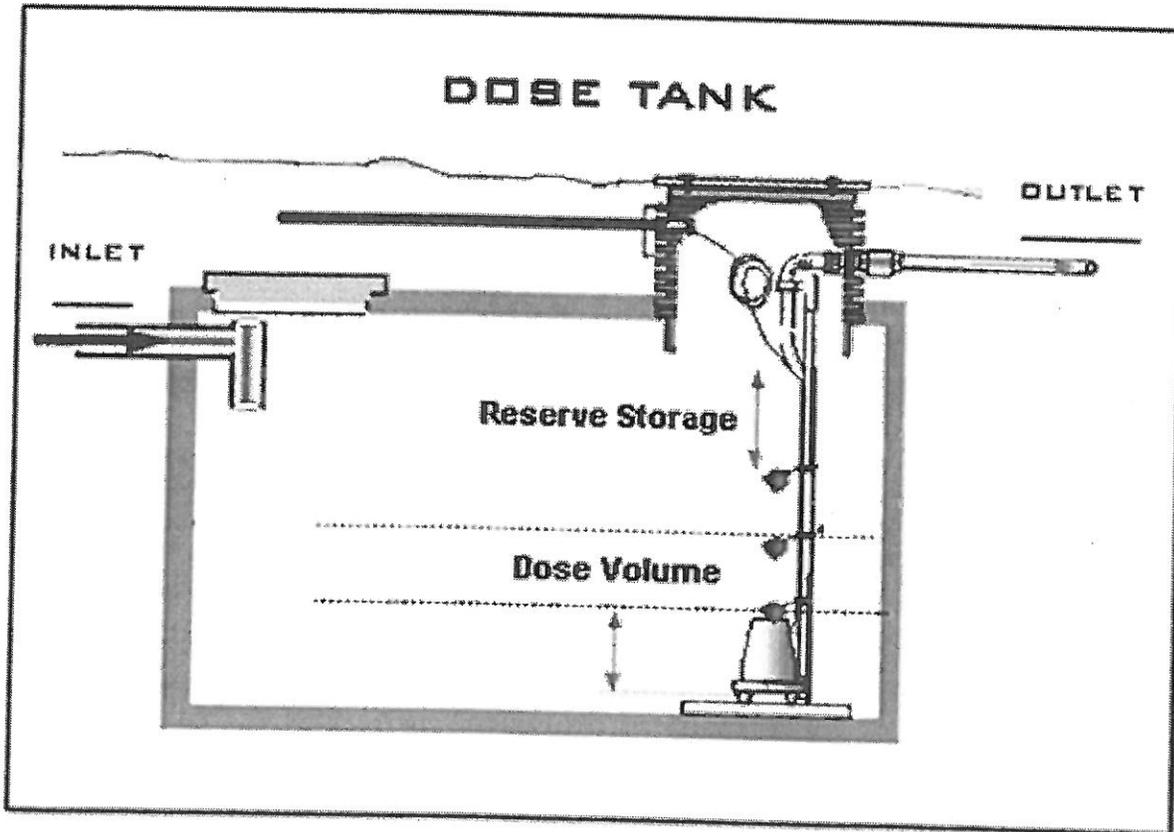
+ _____ feet

Friction loss in _____ feet of _____ inch pipe.
(Table 4)

+ _____ feet

= **Total Head** _____ feet

Pump selected: _____



Provide a copy of the **PUMP CURVE** to the Howard County Health Department

TURN PAGE OVER FOR CALCULATIONS →

TABLE 1

Drainback Calculation						
Diameter (Inches)	1"	1 ¼"	1 ½"	2"	3"	4"
Volume (Gal./ft.)	.045	.078	.106	.174	.384	.650

TABLE 2

Required Pump Discharge Rates for Flood Dosed Systems	
Number of Bedrooms	Discharge Rate (GPM)
1	30
2	30
3	30-45
4	30-60
5	38-75
6	45-90

TABLE 3

Equivalent Footage Chart (per SSPMA)						
Nominal Pipe Size	90° Elbow	45° Elbow	Tee (Thru-flow)	Tee (Branch flow)	Swing Check Valve	Gate Valve
2"	5.2 ft	2.8 ft	3.5 ft	10.3 ft	17.2 ft	1.4 ft
2 ½"	6.2 ft	3.3 ft	4.1 ft	12.3 ft	20.6 ft	1.7 ft
3"	7.7 ft	4.1 ft	5.1 ft	15.3 ft	25.5 ft	2.0 ft

TABLE 4

Table VII - Friction Losses in Plastic Pipe	
<i>*Only most common pipe size and flow rate. Refer to the rule for additional sizes/rates</i>	
Pipe Diameter = 2" (most common size)	
Flow (gpm)	Friction loss in feet / 100 feet
30	.0182
35	.0242
40	.0310
45	.0385
50	.0486