CALCULATIONS

Location Lakewood Crossing

Project Number 01-1089

Lot No: Lot 24

No. of Bedrooms	4	
Design Flow	480	$^{gal}/_{day}$
LTAR	0.3	$^{gal}/_{ft^2\ day}$
PPBPS? (YES OR NO)	YES	
Supply Line Length	96	ft.
Supply Line Volume	16.704	gal.
Required Feet of Line	266.6667	ft.
Amount of Line from Layout	285	ft.
Gallons per Minute	26.96538	$^{gal}/_{min}$
	Note:	*Flow/hole (.41gpm) x # of panels (66)*
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Panel Volume	3.6	gal.
# of Panels	65.76923	
Dosing Volume	158.64	gal.
	Note:	*Dosing Volume based on 67% of # of panels times 3.6 gal/panel*
Tank Draw Down	7.6	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	5.88	minutes
Elevation Head	8.7	ft.
Pressure Head	2	ft.
Friction Factor	1.78	ft./100 ft. *(From the interpolater.)*
Friction Head	1.71	ft.
Total Dynamic Head (+15%)	14.27	ft.

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
	-1.28
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
43.07	3.48
45	3.77
48.14	4.28
50	4.58
57.11	5.89
60	6.42