CALCULATIONS

Location BELLS CROSSING

Project Number 01-1429

Lot No: Lot 201

No. of Bedrooms	4
Design Flow	480 $^{gal}/_{day}$
LTAR	0.3 $^{gpd/ft^2}$
25% RED.? (YES OR NO)	YES
Supply Line Length	138 ft.
Supply Line Volume	24.012 gal.
Required Feet of Line	400 ft.
Amount of Line from Layout	400 ft.
Gallons per Minute	44.02 $^{gal}/_{min}$
Required Septic Tank Capacity	1000 gal.
Minimum Standard Tank Size	1000
Lateral Line Volume	261.2 gal.
Dosing Volume	222.02 gal.

Note: Dosing Volume based on 85% of lateral line volume

Tank Draw Down	10.6 *Generic Draw Down of 21 gal.per in.*
Pump Run Time	5.04 minutes
Elevation Head	9 ft.
Pressure Head	2 ft.
Friction Factor	3.77 ft./100 ft. *(From the interpolater.)*
Friction Head	5.20 ft.
Total Dynamic Head (+15%)	18.63 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