CALCULATIONS

Location WALDED RIDGE SUBDIVISION

Project Number 01-1069

Lot No: Lot 14

No. of Bedrooms	4	
Design Flow	480	$^{gal}/_{day}$
LTAR	.275	gpd/ft²
25% RED.? (YES OR NO)	YES	
Supply Line Length	165	ft.
Supply Line Volume	28.71	gal.
Required Feet of Line	435	ft.
Amount of Line from Layout	440	ft.
Gallons per Minute	28.44	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Lateral Line Volume	287.32	gal.
Dosing Volume	201.12	gal.

Note: Dosing Volume based on70% of lateral line volume

Tank Draw Down	9.6	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	7.07	minutes
Elevation Head	15.5	ft.
Pressure Head	2	ft.
Friction Factor	1.78	ft./100 ft. *(From the interpolater.)*
Friction Head	2.94	ft.
Total Dynamic Head (+15%)	23.50	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