CALCULATIONS

Location CARLYLE FARMS SUBDIVISION

Project Number 01-1234

Lot No: Lot 54

No. of Bedrooms	3	
Design Flow	360	$^{gal}/_{day}$
LTAR	.275	gpd/ft²
25% RED.? (YES OR NO)	YES	
Supply Line Length	109	ft.
Supply Line Volume	18.966	gal.
Required Feet of Line	327	ft.
Amount of Line from Layout	328	ft.
Gallons per Minute	28.44	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Lateral Line Volume	214.184	gal.
Dosing Volume	149.93	gal.

Note: Dosing Volume based on70% of lateral line volume

Tank Draw Down	7.1	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	5.27	minutes
Elevation Head	12.5	ft.
Pressure Head	2	ft.
Friction Factor	1.78	ft./100 ft. *(From the interpolater.)*
Friction Head	1.94	ft.
Total Dynamic Head (+15%)	18.91	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