CALCULATIONS

Location	Davidson Woods	
Project Number	01-1308	
Lot No:	Lot 63	
No. of Bedrooms	3	
Design Flow	360	$^{gal}/_{day}$
LTAR	0.2	$^{gpd/ft^2}$
25% RED.? (YES OR NO)	YES	
Supply Line Length	130	ft.
Supply Line Volume	22.62	gal.
Required Feet of Line	450	ft.
Amount of Line from Layout	450	ft.
Gallons per Minute	30.3	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Lateral Line Volume	293.85	gal.
Dosing Volume	205.70	gal.
	Note: Dosing Volume based on70% of lateral line volume	
Tank Draw Down	9.8	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	6.79	minutes
Elevation Head	16.3	ft.
Pressure Head	2	ft.
Friction Factor	1.78	ft./100 ft. *(From the interpolater.)*
Friction Head	2.31	ft.
Total Dynamic Head (+15%)	23.71	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