CALCULATIONS

Location KERRI SUBDIVISION

Project Number 01-1220

Lot No: Lot 2

No. of Bedrooms	4	
Design Flow	480	$^{gal}/_{day}$
LTAR	0.275	gal/ft2
25% RED.? (YES OR NO)	YES	
Supply Line Length	128	ft.
Supply Line Volume	22.272	gal.
Required Feet of Line	436.3636	ft.
Amount of Line from Layout	435	ft.
Gallons per Minute	21.33	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Lateral Line Volume	284.055	gal.
Dosing Volume	198.84	gal.

Note: Dosing Volume based on 65% of lateral line volume

Tank Draw Down	9.5	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	9.32	minutes
Elevation Head	11.1	ft.
Pressure Head	2	ft.
Friction Factor	1.27	ft./100 ft. *(From the interpolater.)*
Friction Head	1.63	ft.
Total Dynamic Head (+15%)	16.93	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