CALCULATIONS

Location WATERTREE LANDING

Project Number 01-1430

Lot No: Lot 40

No. of Bedrooms	4	
Design Flow	480	$^{gal}/_{day}$
LTAR	0.25	gpd/ft²
25% RED.? (YES OR NO)	YES	
Supply Line Length	219	ft.
Supply Line Volume	38.106	gal.
Required Feet of Line	480	ft.
Amount of Line from Layout	480	ft.
Gallons per Minute	28.44	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Lateral Line Volume	313.44	gal.
Dosing Volume	235.08	gal.

Note: Dosing Volume based on75% of lateral line volume

Tank Draw Down	11.2	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	8.27	minutes
Elevation Head	16.8	ft.
Pressure Head	2	ft.
Friction Factor	1.78	ft./100 ft. *(From the interpolater.)*
Friction Head	3.90	ft.
Total Dynamic Head (+15%)	26.10	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