CALCULATIONS

Location WATERTREE LANDING

Project Number 01-1430

Lot No: Lot 76

No. of Bedrooms 4

Design Flow 480 $^{gal}/_{day}$

LTAR 0.30 $^{gpd/ft^2}$

25% RED.? (YES OR NO) YES

Supply Line Length 123 ft.

Supply Line Volume 21.402 gal.

Required Feet of Line 400 ft.
Amount of Line from Layout 400 ft.

Gallons per Minute 35.55 $^{gal}/_{min}$

Required Septic Tank Capacity 1000 gal.
Minimum Standard Tank Size 1000

Lateral Line Volume 261.2 gal.

Dosing Volume 182.84 gal.
Note: Dosing Volume based on70% of lateral line volume

Tank Draw Down 8.7 *Generic Draw Down of 21 gal.per in.*

Pump Run Time 5.14 minutes

Elevation Head 10.5 ft.
Pressure Head 2 ft.
Friction Factor 2.37 ft./100 ft. *(From the interpolater.)*
Friction Head 2.92 ft.

Total Dynamic Head (+15%) 17.73 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