WASHAM POINT LOT 5

Project #: 01-1449

LAYOUT FOR 4 BEDROOM HOME

November 9, 2007

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		1.6			100.00		
INSTR. 1			101.60				
HOUSE CNR							
P. TANK				3.20	98.40		
1	BLUE			9.70	91.90		
2	PINK			2.30	99.30	50	50
3	ORANGE			2.70	98.90	75	75
4	RED			3.00	98.60	85	85
5	***PINK***			3.40	98.20	88	88
6	***BLUE***			***3.80***	***97.80***	***90***	***90***
7	***ORANGE***			***4.10***	***97.50***	***85***	***85***
8	***RED***			***4.50***	***97.10***	***75***	***75***
				5.00	***96.60***	***45***	***45***
					Total	**593**	**593**

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
** System*	***295***	***0.3***	***MOD.***	***0.30***	***PPBPS***	***LOW PRESSURE***
Repair	298	0.3	MOD.	0.30	PPBPS	LOW PRESSURE

Notes:

** TBM located top of ground at EIP at corner of lot (see site plan)
**TBM is assumed to be 100'
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags
**BS, HI, and FS indicate rod readings

LP PPBPS TAPSHEET -WASHAM POINT LOT 5

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/hole	Trench Area	Number of Panels
5	PINK	97.8	90	0.156	0.41	270	21
6	BLUE	97.5	85	0.156	0.41	255	20
7	ORANGE	97.1	75	0.156	0.41	225	17
8	RED	96.6	45	0.156	0.41	135	10
	total	feet =	295	gal/min =	27.88		68
			Des. Flow	480			
			Pump Run=	5.88			
			soil LTAR	0.3			
			LTAR +5%	0.315			
			LTAR with mod.	0.6			
			LTAR with mod.. + 5%	0.63			

.156 equals 5/32 inch hole

CALCULATIONS

Location WASHAM POINT

Project Number 01-1449

Lot No: Lot 5

No. of Bedrooms	4
Design Flow	480 $^{gal}/_{day}$
LTAR	0.300 $^{gal}/_{ft^2\ day}$
PPBPS? (YES OR NO)	YES
Supply Line Length	219 ft.
Supply Line Volume	38.106 gal.
Required Feet of Line	266.6667 ft.
Amount of Line from Layout	295 ft.
Gallons per Minute	27.88 $^{gal}/_{min}$
Required Septic Tank Capacity	1000 gal.
Minimum Standard Tank Size	1000
Panel Volume	3.6 gal.
# of Panels	68
Dosing Volume	164.02 gal.

Note: Dosing Volume based on 67% of # of panels times 3.6 gal/panel

Tank Draw Down	7.8 *Generic Draw Down of 21 gal.per in.*
Pump Run Time	5.88 minutes
Elevation Head	10.9 ft.
Pressure Head	2 ft.
Friction Factor	1.78 ft./100 ft. *(From the interpolater.)*
Friction Head	3.90 ft.
Total Dynamic Head (+15%)	19.32 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