

REVISIONS	BY
REVISED SEPTIC MAY 18, 2005	WBO
REVISED SEPTIC JUNE 1, 2005	WBO

Barrington
CONSULTING GROUP, INC.
9114 TYLER BLVD., MENTOR, OHIO 44060
PHONE 440.285.1260 FAX 440.285.1262
BCG@BarringtonCGL.com



DRIP CALCULATIONS
S/L 7 BELLMORE DR. PANESVILLE TWP. OH. 44077
BELLMORE SUBDIVISION VOL. 44 PG. 21
LITTLE MOUNTAIN HOMES, INC.

DATE MAY 18, 2005
CHECKED DWN
SCALE NONE
JOB NO. 02007-07
SHEET 2/5

SEPTIC DRIP CALCULATION SHEET

1	417	GALLONS PER DAY	4	BEDROOMS		
2	0.27	GPD/L.F. TUBING INFILTRATIVE SOIL LOADING RATE				
3	119	FT. (Length)	14.5	FT. (Width) AREA FOR DISPOSAL LAYOUT	1725.5	FT. SQ.
4	0.18	GPD/FT2 AREA SOIL LOADING RATE PROVIDED				
5	2	ZONES				
6	1904	TOTAL DRIPPER LINE PROVIDED				
7	2000	SEPTIC TANK SIZE				
8	2000	DOSING TANK SIZE				
9	33	GALLONS PER INCH IN DOSING TANK (Recommended Minimum)				
10	ZONE ONE					
11	862.75	TOTAL ABSORPTION AREA				
12	952	LINEAR FEET OF DRIP TUBING				
13	238	LONGEST LATERAL LENGTH				
14	4.84	DOSING FLOW RATE				
15	4	NO RETURN FIELD FLUSH CONNECTIONS				
16	6.4	FIELD FLUSH FLOW RATE				
17	11.24	TOTAL FLOW REQUIRED				
18	ZONE TWO					
19	862.75	TOTAL ABSORPTION AREA				
20	952	LINEAR FEET OF DRIP TUBING				
21	238	LONGEST LATERAL LENGTH				
22	4.84	DOSING FLOW RATE				
23	4	NO. RETURN FIELD FLUSH CONNECTIONS				
24	6.4	FIELD FLUSH FLOW RATE				
25	11.24	TOTAL FLOW REQUIRED				
26	12	MAXIMUM DESIGN FLUSHING FLOW				
27	11	FEET OF HEAD LOSS FROM HYDRAULIC UNIT (Based on #26)				

28	HYDRAULIC UNIT SUPPLY LINE					
29	1.5	PIPE DIAMETER				
30	15	LENGTH SUPPLY PIPE				
31	5	FEET OF STATIC LIFT				
32	7	TOTAL FEET HEAD LOSS IN LINE (Dynamic Head Loss + #31)				
33	FORCE MAIN SUPPLY LINE PIPE SIZE & LENGTH:					
34	1"	ZONE 1 SIZE	100	ZONE 1 LENGHT	8	FT. HEAD LOSS
35	1"	ZONE 2 SIZE	100	ZONE 2 LENGTH	4	FT. HEAD LOSS
36	RETURN FLUSH LINE SIZE & RETURN:					
37	1"	ZONE 1 SIZE	100	ZONE 1 LENGHT	3	FT. HEAD LOSS
38	1"	ZONE 2 SIZE	100	ZONE 2 LENGTH	3	FT. HEAD LOSS
39	1	FEET OF TOTAL STATIC HEAD LOSS (Vertical Lift) FROM H.U. TO DRIP TUBE				
40	TOTAL PRESSURE LOSS (Add Items 27, 32 34/35, 37/38, 39 + Flushing):					
41	54	ZONE 1 HEAD LOSS, INCLUDES		24	FEET FLUSHING	
42	54	ZONE 2 HEAD LOSS, INCLUDES		24	FEET FLUSHING	
43	PUMP SIZING:					
44	54	MAXIMUM TOTAL PRESSURE LOSS (Highest 41 or 42)				
45	122	DISC FILTER BACKFLUSH (#32 + 115ft. • 15 GPM)				
46	15	GPM •	122	FEET,	115	VOLTS, 1 PHASE, 0.5 H.P.
47	TIMED DOSING PER ZONE:					
48	ZONE ONE:					
49	4.84	Dosing GPM	7.44	MIN./DOSE	36	GALLONS PER DOSE
50	4	AVE. CYCLES		6.67	PEAK CYCLES	
51	ZONE TWO:					
52	4.84	Dosing GPM	7.44	MIN./DOSE	36	GALLONS PER DOSE
53	4	AVE. CYCLES		6.67	PEAK CYCLES	
54	4	INCHES DRAWDOWN FLOAT SWITCH SETTING (Minimum 4")"				
55	Landscape Linear Loading Rate (LLLR):			LLLR =	3.50	
56	Soil Loading Rate (SLR):			SLR =	0.24	