

REVISIONS	BY
REVISED SEPTIC AUG 10, 2005	WSO
REVISED SEPTIC AUG 16, 2005	WSO

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DRIP CALCULATIONS
SIL 6 BELLMORE DR. PAINESVILLE TWP. OH. 44077
BELLMORE SUBDIVISION VOL. 44 PG. 21
LITTLE MOUNTAIN HOMES, INC.

DRAWN WSO
CHECKED DWN
DATE AUG 05, 2005
SCALE NONE
JOB NO 02007-06
SHEET 2/5
OF SHEETS

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	<u>ZONE ONE</u>					
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	<u>ZONE TWO</u>					
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	20	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	8	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	2	FEET OF TOTAL STATIC HEAD LOSS (Vertical Lift) FROM HU TO DRIP TUBE								
40	TOTAL PRESSURE LOSS (Add Items 27, 32 34/35, 37/38, 39 + Flushing):									
41	55	"ZONE 1 HEAD LOSS, INCLUDES			24	FEET FLUSHING				
42	55	ZONE 2 HEAD LOSS, INCLUDES			24	FEET FLUSHING				
43	PUMP SIZING:									
44	55	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	HP
47	TIMED DOSING PER ZONE:									
48	ZONE ONE:									
49	4.84	Dosing GPM		6.46	MIN /DOSE		31.28	GALLONS PER DOSE		
50		4	AVE CYCLES		6.67	PEAK CYCLES				
51	ZONE TWO:									
52	4.84	Dosing GPM		6.46	MIN /DOSE		31.28	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				