



BRACEBRIDGE
The Heart of Muskoka

The Corporation of the Town of Bracebridge

November 8, 2018

Dumelie Shawn Edward
Dumelie Tara Carmela
1031 Old Stone RD RR 1
KILWORTHY ON
POE 1G0

RE: New Septic System
86 Cedar Shores Rd. PVT
Permit # S17-249
Roll # 040 009 029 00

An inspection of the above noted project was carried out by the Building Services Branch, upon notice that the project was ready for inspection.

At the time of inspection, the system appeared to be complete; in accordance with permit application and the Ontario Building Code therefore ***use is permitted the file is closed***

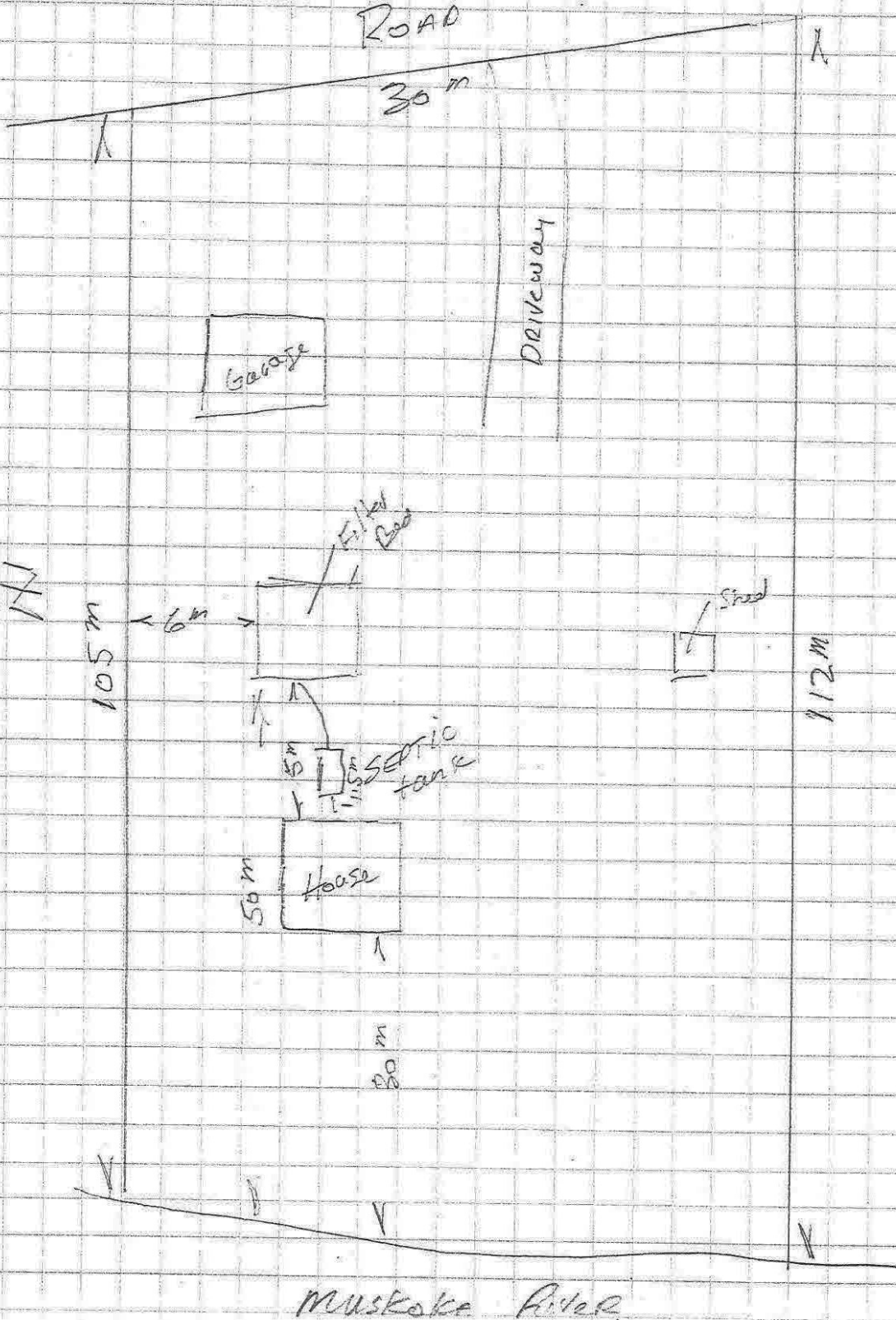
Sincerely,

Nina Dandreamatteo
Building Inspector
Town of Bracebridge

1000 Taylor Court
Bracebridge, ON
P1L 1R6 Canada

telephone: (705) 645-5264
administration fax: (705) 645-1262
public works fax: (705) 645-7525
planning and development fax: (705) 645-4209

86 CEDAR STORIES RD RT



SEWAGE SYSTEM CALCULATIONS

(to be submitted with application)

(see Chart on reverse)

Q = Total Daily Design Sewage Flow in Litres
 T = Percolation Time of Soil

SEPTIC TANK SIZE = Working Capacity of Septic Tank

Residential = $\frac{1600}{Q} \times 2 = \frac{3200}{Q}$ Litres
 Commercial = $\frac{1600}{Q} \times 3 = \frac{4800}{Q}$ Litres

Note: In no case shall the working capacity of septic tank be less than 3600 litres. Use 3600

ABSORPTION TRENCHES = Length of Distribution Pipe
 (for systems with septic tank)

$L = \frac{Q \times T}{200}$
 = $\frac{Q \times T}{200}$ = _____ Metres

Note: The total length of distribution pipe shall be not less than 40 metres.

Loading Rate Area (unsaturated suitable soil in area of bed and mantle)

Loading Rate Area required = $\frac{Q}{6} \div 6 = \frac{Q}{36}$ Sq. Metres

FILTER BED = Size of filter required

If Q is 3000 litres or less = $\frac{Q}{75} \div 75 = \frac{Q}{5625}$ Sq. Metres

If Q is more than 3000 litres = $\frac{Q}{50} \div 50 = \frac{Q}{2500}$ Sq. Metres

Base of Filter Medium - shall extend to a thickness of 250mm over the following area:

AREA = $\frac{Q \times T}{850}$
 $\frac{1600 \times 12}{850} = 22.6$ Sq. Metres

NOTE: "T" is the Percolation Time of the Native Soil upon which the filter material is placed.

Loading Rate Area (unsaturated suitable soil in area of bed and mantle)

Loading Rate Area Required = $\frac{Q}{10} \div 10 = \frac{Q}{100}$ Sq. Metres existing

NOTE: Suitable soil, existing or imported, in the loading rate area must have a "T" of 15 minutes or less, if imported material is used for the leaching bed or filter.

RESIDENTIAL PLUMBING WORKSHEET

Description	# Units per Fixture	DWELLING #1		DWELLING #2		SLEEPING CABIN		OTHER	
		# of Fixtures Units	Fixture	# of Fixtures Units	Fixture	# of Fixtures Units	Fixture	# of Fixtures Units	Fixture
Bathroom Group	6	2	12						
Toilet	4								
Wash Basin (Lavatory)	1.5								
Bathtub or Shower	1.5								
Bidet	1								
Kitchen Sink (single or double)	1.5	1	1.5						
Bar Sink	1.5								
Washing Machine Domestic	1.5	1	1.5						
Other									
TOTAL FIXTURE UNITS		15							
FINISHED FLOOR AREA		163 m ²							
# OF BEDROOMS		3							

Table 8.7.4.1.

Loading Rates for Fill Based Absorption Trenches and Filter Beds

Forming Part of Sentences 8.7.4.1.(1) and 8.7.5.2.(2)

Percolation Time (T) of Soil (min/cm)	Loading Rates (L/m ² /day)
1 < T ≤ 20	10
20 < T ≤ 35	8
35 < T ≤ 50	6
T ≤ 50	4
Column 1	2

SEWAGE SYSTEM INSTALLATION PROPOSAL

TOTAL # OF BEDROOMS :	3	TOTAL FLOOR AREA :	163 m ²
TOTAL PLUMBING FIXTURE UNITS:	15		
TOTAL DAILY DESIGN FLOW RATE (Expressed in Litres/day):			Q = 1600

Calculations for proposal must be provided on a separate sheet

TEST HOLE	Sub-surface conditions encountered			
	Rock & G.W.T.	Depth (m)	Soil Type	"T" Time
		- 0 -		12
		- 0.25 -	Silty	
		- 0.50 -	Sand	
		- 0.75 -		
		- 1.00 -		
		- 1.25 -		
		- 1.50 -		

PROPOSE TO CONSTRUCT:

<input checked="" type="checkbox"/>	CLASS 4 FILTER BED	PROOF OF APPROVED FILTER MATERIAL MUST BE PROVIDED PRIOR TO FINAL INSPECTION				
Dug Into Existing Soil	Raised	<input checked="" type="checkbox"/>	If Raised, How Far Above Existing Soils?	1.5 metres	Contact Area	M ²

<input type="checkbox"/>	CLASS 4 TRENCH BED					
Dug Into Existing Soil	Raised	<input type="checkbox"/>	If Raised, How Far Above Existing Soils?	metres	Total length of Tile	metres
# Of Runs Of Tile		Length of Runs	metres			

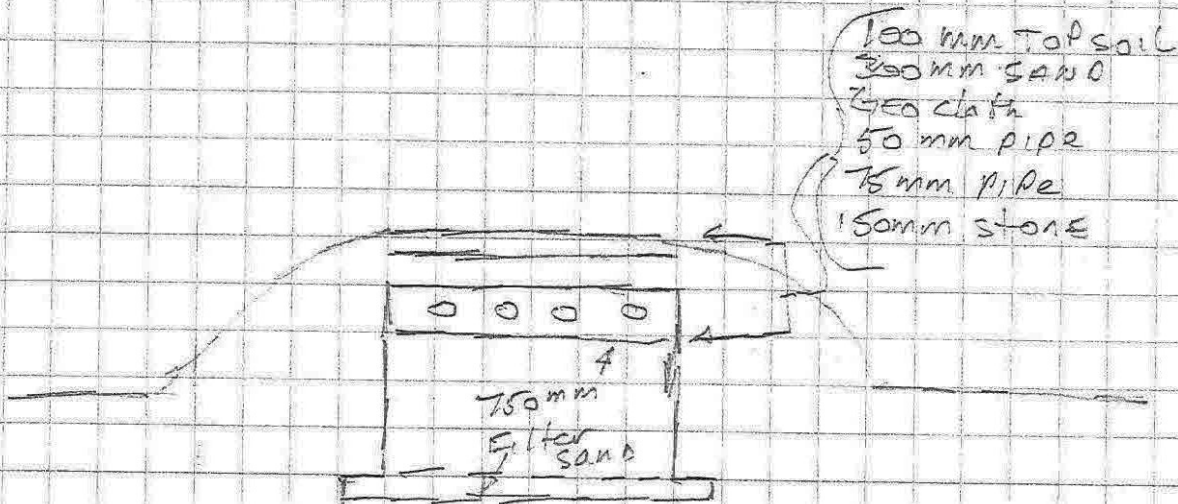
<input type="checkbox"/>	CLASS 2 GREY-WATER PIT or CLASS 3 CESSPOOL					
Wall Structure – Concrete Block	<input type="checkbox"/>	Rock	<input type="checkbox"/>	Other:		
Dimensions Of Pit	Length:	Width:	Height:	Type Of Cover:		
Type Of Class 1 To Be Used	Privy	<input type="checkbox"/>	Composting	<input type="checkbox"/>	Chemical	<input type="checkbox"/>
				<input type="checkbox"/>	Electrical	<input type="checkbox"/>
						<input type="checkbox"/>

<input type="checkbox"/>	CLASS 5 - HOLDING TANK - PUMP OUT CONTRACT MUST BE PROVIDED (District Approval Required)					
Concrete	<input type="checkbox"/>	Polyethylene	<input type="checkbox"/>	Other:		
Size (L)		Alarm Is – Audio	<input type="checkbox"/>	And Visual	<input type="checkbox"/>	Describe Platform:

IS A PUMP REQUIRED? existing

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Raw Sewage	<input type="checkbox"/>	Effluent	<input type="checkbox"/>
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26 CEDAR SHORES PVT.



NOTES - DESIGN DOES NOT INCLUDE WATER TREATMENT BACKWASH AND/OR GARBAGE GRINDER.

- BASE INSPECTION RECOMMENDED
- Stone layer Bottom AT OR ABOVE FLOOD PLANE ELEVATION FOR THIS LOT.