

## Schedule 3: Sewage System Specifications

<b>A. Proposed Sewage System</b>									
<input type="checkbox"/> Residential					<input type="checkbox"/> Commercial				
<input type="checkbox"/> New Installation		<input type="checkbox"/> Replacement		<input type="checkbox"/> Alteration		<input type="checkbox"/> Repair			
<b>B. Proposed Sewage System Type</b>									
<input type="checkbox"/> CLASS 4 – SEWAGE SYSTEM					<input type="checkbox"/> CLASS 5 – HOLDING TANK (Temporary or Limited Use)				
<b>C. Building Information</b>									
<b>Plumbing Fixtures</b> ( Include roughed-in plumbing and proposed additions (future basement bathroom)									
Description	# Existing	+	#New (Proposed)	=	Total	x	Fixture Unit	=	Count
Bath Group -toilet/sink/shower		+		=		x	6	=	
Sinks/Wash Basins		+		=		x	1.5	=	
Bathtub>Showers		+		=		x	1.5	=	
Toilets (flush tank)		+		=		x	4	=	
Dishwasher		+		=		x	1.0	=	
Laundry Tub/Washer Machine		+		=		x	1.5	=	
Other (T 7.4.9.3 or T 7.4.10.2.)		+		=		x		=	
Water Softener backwashes into Sewage System? <input type="checkbox"/> Yes <input type="checkbox"/> No						<b>TOTAL FIXTURE UNITS</b>		=	
Volume of Backwash _____ <input type="checkbox"/> Gal <input type="checkbox"/> Litres									

<b>D. Design Flow Calculations (Q)</b>						
BEDROOM FLOWS (A)	# of BEDROOMS	Number	Volume (litres)	Total Flow	FINISHED FLOOR AREA (M <sup>2</sup> )	
<input type="checkbox"/>	1 Bedroom		750		FIRST FLOOR	
	2 Bedrooms		1100		SECOND FLOOR	
	3 Bedrooms		1600		THIRD FLOOR	
	4 Bedrooms		2000		<b>TOTAL</b>	
	5 Bedrooms		2500		<b>DESIGN FLOW "Q"</b>	
<b>Extra Bedroom Over 5 (B)</b>	<input type="checkbox"/> Each Bedroom		500		Q = A + (B or C or D)	
<b>LIVING AREA FLOWS (C)</b>	<input type="checkbox"/> Each 10m <sup>2</sup> over 200m <sup>2</sup> - 400m <sup>2</sup>		100		A = _____	
	<input type="checkbox"/> Each 10m <sup>2</sup> over 400m <sup>2</sup> - 600m <sup>2</sup>		75		B = _____	
	<input type="checkbox"/> Each 10m <sup>2</sup> >600m <sup>2</sup>		50		C = _____	
<b>FIXTURE COUNT FLOW (D)</b>	<input type="checkbox"/> Each Fixture over 20 fixture units		50		D = _____	
					<b>Q = _____ litres/day</b>	

**E. Septic Tank Size (Working Capacity)**     New CSA B66 Standard     Existing     Replacement

<input type="checkbox"/> Residential:    Min. Tank Size = 2 x Q <input type="checkbox"/> Non-Residential: Min. Tank Size = 3 x Q	<b>Proposed/Existing Working Capacity = _____ Litres</b>
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**F. Other Treatment Unit**     Tertiary     Secondary

Manufacturer _____	Model _____	BMEC # _____
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## Soil Design Criteria and Site Evaluation

**A. Percolation Rate of Design Soil (T)**

Percolation Rate of Design Soil T = _____ min/cm <input type="checkbox"/> Native <input type="checkbox"/> Imported	Percolation Rate of Mantle Sand T = _____ min/cm <input type="checkbox"/> Native <input type="checkbox"/> Imported	<input type="checkbox"/> Laboratory Analysis <input type="checkbox"/> Lab Report Attached
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Note: The Municipality of Arran-Elderslie requires documentation on the soils proposed to be used by a certified soil technician to determine the percolation rate (T-time) for the conventional type fields or its suitability for filter bed sand in filter bed systems.

All reports must be dated within 12 months of construction.

**B. Percolation Rate and Classification of Native Soil**

Laboratory Analysis (Attached Report)     Test on Site (Test Pit)

TEST PIT SOIL DATA					
TEST PIT #1			TEST PIT #2		
Rock or Ground Water Table	Depth (metres)	Description of Soil	Rock or Ground Water Table	Depth (metres)	Description of Soil
	- 0 -			- 0 -	
	- 0.25 -			- 0.25 -	
	- 0.50 -			- 0.50 -	
	- 0.75 -			- 0.75 -	
	- 1.00 -			- 1.00 -	
	- 1.25 -			- 1.25 -	
	- 1.50 -			- 1.50 -	
	- 1.80 -			- 1.80 -	
Depth to Groundwater	_____ m		Depth to Groundwater	_____ m	
Seasonal High Groundwater	_____ m		Seasonal High Groundwater	_____ m	
Depth to Bedrock	_____ m		Depth to Bedrock	_____ m	

**T = \_\_\_\_\_ min./cm**

*Percolation Time between 10 and 20 min/cm is ideal.*



# Site Plan and Cross Section

Where a new dwelling or building is proposed, a drainage and grading plan prepared by a Professional Engineer or an Ontario Land Surveyor shall indicate the location of the proposed sewage system and components

**SITE PLAN**

**N**

**CROSS SECTION**

**The site plan and cross section is required and must contain the following information:**

- Location and dimensions of all buildings
- All wells in use or abandoned within a 30 metre (100 ft) radius of the proposal
- All existing and proposed structures and swimming pools
- The location of any unsuitable, disturbed or compacted areas
- Any slopes (include slope degree and direction)
- The cross-sectional view of the proposal which includes house, tank and tile bed elevations as well as existing and finished ground levels or grades (recommend bench mark for tiles)
- All water bodies and ditches, drain tiles, swamps, flood plain or areas prone to flooding
- All driveways and proposed access routes for septic system in maintenance
- All field drains, underground hydro, water services and basement drains
- Proposed system layout including all system components including mantles and their setbacks from structures, lot lines and wells.