

# Schedule D - Site Servicing Plan

## DESIGN FLOW CALCULATION

Owner Contact	Property Location	
Ross Robbins	7395 Twenty Road	
	<b>ARN: 260203001248900</b> ARN            260203001248900 Street         7395 Number Street Name   20 Full Street    20 ROAD	<b>Township Lots and Concessions: Grimsby</b> Township    Grimsby Lot             Lot 2 Concession   Range 2 Full Text      Grimsby Township Lot 2 Range 2

### Total Daily Design Sanitary Sewage (TDDSS) Flow

Item Contributing to the TDDSS Flow	Quantity	Sewage Flow (L/day)
<b>Base Flow for Dwelling</b>		
Bedroom Units ( $Q_B$ )	4	2000.0
<b>Additional Flow Modifiers</b>		
Bedrooms (>5)	0	1000
Fixture units ( $Q_F$ )	32.5	625.0
Floor Area $m^2$ ( $Q_A$ )	260	600.0
<b>Unit Flow Calculation</b>		
<b>TDDSS Flow (<math>Q_B+Q_B</math>) =</b>		3500.0 L/day
<b>TDDSS Flow (<math>Q_B+Q_F</math>) =</b>		2625.0 L/day
<b>TDDSS Flow (<math>Q_B+Q_A</math>) =</b>		2600.0 L/day

Based on the Criteria of Section 8.2.1.3 of the OBC, the higher flow is chosen for design:

**Total Design Daily Sanitary Sewage Flow:**

<b>2625.0 L/day</b>
---------------------

Fixture Units Calculation*			
	Number	Fixture Units	Total
Bathroom Group (with flush tank)	3	6.0	18.0
Additional Toilets	1	4.0	4.0
Additional bathroom shower	1	1.5	1.5
Additional bathroom sink	3	1.5	4.5
Kitchen Sinks	1	1.5	1.5
Dishwasher*	1	0.0	0.0
Clothes washer	1	1.5	1.5
Laundry Tub	1	1.5	1.5
*No additional fixture unit load for dishwasher if connected to kitchen sink			32.5

2767.7 ft <sup>2</sup>		10.76426265 ft <sup>2</sup> /m <sup>2</sup>	
		257.11933 m <sup>2</sup>	

Finished Floor Area Flow Modifier Calculation	
Home (m <sup>2</sup> )	Flow Adjustment
200	0.0
60	600.0
0	0.0
0	0.0
<b>260</b>	<b>600.0</b>

Main Floor 2767.7 ft <sup>2</sup> 4-bedroom 2-bathroom groups 2-extra bathroom sinks 1-extra bathroom shower 1-powder room
--

Basement 0-bedrooms 1-bathroom group
--

# RAISED FILTER BED INSTALLATION SPECIFICATIONS

## Fully Raised Filter Bed

T underlying soil => 50

Owner Contact	Property Location		
Ross Robbins	7395 Twenty Road		
	<b>ARN: 260203001248900</b>	<b>Township Lots and Concessions: Grimsby</b>	
	ARN 260203001248900	Township	Grimsby
	Street Number 7395	Lot	Lot 2
	Street Name 20	Concession	Range 2
	Full Street 20 ROAD	Full Text	Grimsby Township Lot 2 Range 2

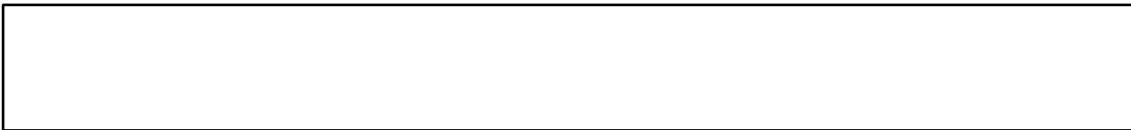
Application Rate (L/m2)	Q (L/day)	Required Filter bed area (m <sup>2</sup> )
75	2625.0	35.0

### Area Bed Installation Summary:

	Stone Loading Area	35.0 m <sup>2</sup>	
Number of runs:		6	
Length of run (m):		6.1	20.0 ft
Total length of pipes (m):		36.6	120.1 ft
Length of header/footer (m)		3.6	11.8 ft
Stone Load Area length (m):		6.3	20.7 ft
Stone Load Area Width (m):		5.6	18.4 ft
<b>Each Stone Loading Area (2 stone load areas 5 m apart provided)</b>		<b>35.28 m<sup>2</sup></b>	<b>379.6 ft<sup>2</sup></b>

### Filter Bed Summary:

<b>A</b>	<b>Underlying filter media contact area (QT/850) =</b>	<b>154.41 m<sup>2</sup></b>	<b>1661.5 ft<sup>2</sup></b>
	Filter Media Length (m) =	15.50 m	50.9 ft
	Filter Media Width (m) =	10.00 m	32.8 ft
	<b>Each Filter Media Contact Area =</b>	<b>155.00 m<sup>2</sup></b>	<b>1667.8 ft<sup>2</sup></b>
<b>B</b>	<b>Mantle Contact Area (Q/4) =</b>	<b>656.25 m<sup>2</sup></b>	
	Square Mantle in direction of flow		
	Mantle Length (m) =	31.25 m	102.5 ft
	Trapezoid Mantle Start Width =	21.00 m	68.9 ft
	Trapezoid Mantle Finish Width =	21.00 m	68.9 ft
	Expanded Mantle Average Width (m) =	21.00 m	68.9 ft
	<b>Mantle Contact Area Provided</b>	<b>656.25 m<sup>2</sup></b>	<b>7061.3 ft<sup>2</sup></b>

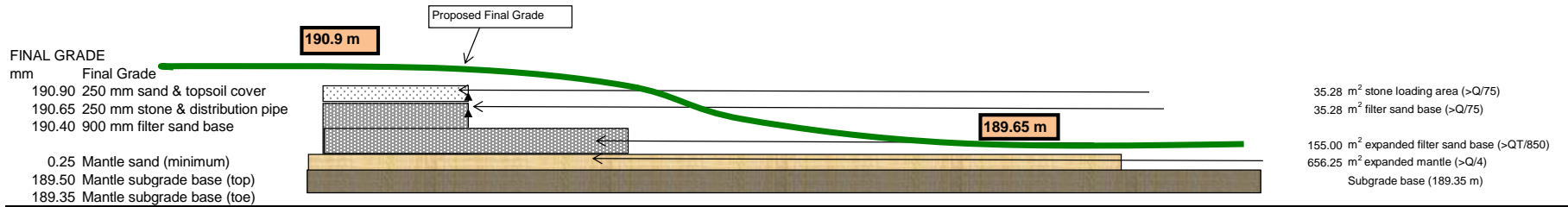


### Septic Tank Summary:

<u>Standard Septic Tank Size (2 x Q)</u>	<u>5250 litres</u>
<b>Septic tank provided</b>	<b>5400 litres</b>

# PROFILE SKETCH

Owner Contact	Property Location																				
Ross Robbins	7395 Twenty Road																				
<table border="1"> <thead> <tr> <th colspan="2">ARN: 260203001248900</th> <th colspan="2">Township Lots and Concessions: Grimsby</th> </tr> </thead> <tbody> <tr> <td>ARN</td> <td>260203001248900</td> <td>Township</td> <td>Grimsby</td> </tr> <tr> <td>Street Number</td> <td>7395</td> <td>Lot</td> <td>Lot 2</td> </tr> <tr> <td>Street Name</td> <td>20</td> <td>Concession</td> <td>Range 2</td> </tr> <tr> <td>Full Street</td> <td>20 ROAD</td> <td>Full Text</td> <td>Grimsby Township Lot 2 Range 2</td> </tr> </tbody> </table>		ARN: 260203001248900		Township Lots and Concessions: Grimsby		ARN	260203001248900	Township	Grimsby	Street Number	7395	Lot	Lot 2	Street Name	20	Concession	Range 2	Full Street	20 ROAD	Full Text	Grimsby Township Lot 2 Range 2
ARN: 260203001248900		Township Lots and Concessions: Grimsby																			
ARN	260203001248900	Township	Grimsby																		
Street Number	7395	Lot	Lot 2																		
Street Name	20	Concession	Range 2																		
Full Street	20 ROAD	Full Text	Grimsby Township Lot 2 Range 2																		



**Installation Notes:**  
 Total 900 mm sand base under the stone loading area. Subgrade at the toe of the mantle to be at existing grade at +/- 189.35 m. Proposed final grade at top of septic bed 190.9 m

Owner Contact	Property Location
Ross Robbins	7395 Twenty Road
	ARN: 260203001248900
	ARN 260203001248900
	Street 7395
	Number
	Street Name 20
	Full Street 20 ROAD
	Township Lots and Concessions: Grimsby
	Township Grimsby
	Lot Lot 2
	Concession Range 2
	Full Text Grimsby Township Lot 2 Range 2

