

APPENDIX H

STANDARD SUBMISSION DOCUMENTS

(including cross sections)

SUBMISSION STANDARDS

Enclosed in this appendix are submission standards and a submission form. Applicant can fill out an enclosed form or provide typed report. In both cases it is important to provide all the information required by the submission standards.

SUBMISSION STANDARDS FOR APPLICATIONS

All applications must comply with the Act, Regulations, Guidelines and any policies within the Department and shall include the following information:

- A completed and signed Submission Checklist for Qualified Persons Level I or Submission Checklist for Qualified Persons Level II as appropriate.

Sketch of Property & Proposed Development

- Property lines
- Location of existing & proposed buildings
- Location and type of existing & proposed wells including neighboring properties
- Location of watercourses, wetlands, marine water bodies and other features that may influence the selection or design of the system on the lot and adjoining lots and **within 60 meters of any part of the proposed system**
- Existing & proposed driveways, roads, and walkways
- Location and type of disposal field. **The test pit and proposed system location must be shown in reference to two fixed points on the property and be within 6 meters plus or minus of the system location. The placement of the system must at all times meet the minimum clearance distances in the regulations unless a variance is specified in the terms and conditions of the Approval.** If this application is for the replacement of a malfunctioning system; show the location of the existing system.
- Location of septic tank(s) and pump chamber(s)
- All clearance distances described in the regulations (variation maybe required)
- Location of test pits inspected on the property and any other testing locations such as in-situ permeability tests
- Direction of slope on property
- Percentage of slope of property

Test Pit Log

- Recent weather conditions
- Total soil depth
- Effective soil depth
- Total depth of test pit
- Amount of organic layer
- Root penetration
- Depth of permeable soil
- Depth to bedrock
- Depth to a layer that is unsuitable and/or impermeable (refer to guidelines)
- Determination of highest seasonal water table:

Test Pit Log Cont'd:

- Presence and depth of mottling
- Depth to water
- Moisture contents (saturated, moist, dry, etc.)
- Soil profile:
 - Description of soil
 - Depth of each layer
 - Texture of soil (sandy silt, silty clay, etc.)
 - Moisture contents (saturated, moist, dry, etc.)
 - Density (loose, medium compact, tight)
 - Colour

On-Site Sewage Disposal System

- Type of system:
 - C-1, C-2, C-3, area bed, multiple trench, mound, etc.
- Plan of system showing:
 - Depth of trench
 - Length of trench
 - Width of trench:
 - a) interceptor (if required)
 - b) buffer zone widths (if applicable)
 - c) type of pipe (N.S. spec. perforated pipe, solid pipe with holes drilled, etc.)
 - d) hole spacing for holes drilled on site
- Septic tank:
 - Size of tank (liters)
 - Type of tank pre-cast concrete, PVC, fiberglass, etc.)
- Pump
 - Size of pump chamber
 - Amount to be discharged to disposal field
 - Alarm (audible/visible)
- Cross section of system:
 - Depth of front cut
 - Width of trench
 - Width of buffer (if applicable)
 - Interceptor (if required)
 - Depth of trench
 - Amount of approved filter sand in trench
 - Minimum amount of crushed rock under pipe
 - Crushed rock over pipe
 - Barrier material (geotextile)
 - Amount and type of soil cover over geotextile
 - Depth and permeability of imported sand fill (if required)
 - Final cover material, seed or sod

Design/Selection Notes

- Type of usage to which the system will be subjected
- Projected flows (litres per day)
- Rationale for selection of system:
 - Type of system (why C-2 was chosen instead of C-1, etc.)
- Length of system:
 - Chart used to determine length
 - Soil effective depth
- Estimated permeability:
 - Measured permeability (if applicable)
 - Slope of property
- Width of system:
 - Chart or calculation used to determine width

Note: A Qualified Person may use the standard application form and the submission standard included with the application to provide the required sketch of the property and system layout or provide a separate sketch or drawing. A Qualified Person I shall provide the calculations and details of any design as a separate attachment to the application form.

SUBMISSION CHECKLIST FOR SYSTEM DESIGN

Commercial Industrial Institutional Residential

Owner: _____

PID: _____

Community: _____

Subdivision: _____

Lot #: _____

This checklist is to be included with every professional engineering submission. By completing and signing this checklist the Qualified Person certifies that the application and supporting documents conform with the Environment Act, the On-Site Sewage Disposal Systems Regulation and the On-Site Sewage Disposal Systems Technical Guidelines. If an item is not checked off in Section A, the submission package will be returned to the engineer. Any item not checked off in Section B may result in delays in processing the application.

SECTION A

- A completed plan outlining the system design or system selection.
- A drawing of the proposal which shows the location of proposed and existing buildings, roads and driveways and distances from the proposed system to wells, septic systems, watercourse and wetlands within 60 meters of any part of the proposed system is attached. ***The locations of the test pit and system are shown in reference to two fixed points on the property.***
- I have double checked all information required, to ensure that the information I am presenting is accurate.
- A completed application as described in the Guidelines and Regulations is included. This includes a copy of the property deed, lease or letter proving the applicant's legal right to conduct the activity on the site.
- All necessary information as described in the Guidelines and Regulations has been submitted. For reference, I have referred to Appendix H of the Guidelines.
- Soil conditions have been assessed by means of a test pit, or if a test pit is not required (i.e. bedrock at or near ground surface) a clear and concise reason is given.
- Complete design calculations have been included. This includes length and width calculations, and calculations to confirm that the required vertical clearance distance to bedrock, maximum water table elevation, or other limiting conditions in the Regulations has been met.
- A stamped and signed engineering drawing(s) is included in the submission.

SECTION B

- A variation request is neither included nor required for this submission.***
- This proposed system is one which is described in the Guidelines and is ***not*** for an innovative system or a cluster system, as described in the Regulations.
- All clearance distances as required in the regulations have been met. The submission includes drawings which confirm that all clearance distances have been met.
- The system is entirely contained on the same property as the structure which is generating the sewage.
- This proposed system will be the only operating system on the property.
- To the best of my knowledge, this proposal is ***not*** for a property which has already been refused under the Regulations for the proposed use, nor is it for an application which is presently under review by the Department.
- To the best of my knowledge, this proposal is ***not*** for a property which is located in the boundaries of a protected water area as designated under Section 106 of the *Environment Act*.

It is an offense under Sections 158 (a) and 158 (b) of the Environment Act to provide false or misleading information. I certify that the information submitted complies with the requirements set out in the Environment Act, On-Site Regulations and On-Site Technical Guidelines including system selection or design requirements.

Name (print): _____ Name (sign): _____

Engineers NS #: _____

Date: _____

Revision: April 2013

SUBMISSION CHECKLIST FOR SYSTEM SELECTION

Owner: _____
PID: _____
Community: _____
Subdivision: _____
Lot #: _____

This checklist is to be included with every submission where a system was selected from the guidelines. By completing and signing this checklist the Qualified Person certifies that the application and supporting documents conform with the Environment Act, the On-Site Sewage Disposal Systems regulation and the On-Site Sewage Disposal Systems Technical Guidelines. If an item is not checked off in Section A, the submission package will be returned to the Qualified Person. Any item not checked off in Section B may result in delays in processing the application.

SECTION A

- A completed plan outlining the system selected is attached.
- A drawing of the proposal which shows the location of proposed and existing buildings, roads and driveways and distances from the proposed system to wells, septic systems, watercourses and wetlands within 60 meters of any part of the proposed system is attached.
The locations of the test pit and system are shown in reference to two fixed points on the property.
- I have double checked all information required, to ensure that the information I am presenting in the Submission Standards for Application Form, System Selection Form and Schedule C is accurate.
- A completed application as described in the Guidelines and Regulations is included. This includes a copy of the property deed, lease or letter proving the applicant's legal right to conduct the activity on the site.
- All necessary information as described in the Guidelines and Regulations has been submitted. For reference, I have referred to Appendix H of the Guidelines.
- Soil conditions have been assessed by means of a test pit, or if a test pit is not required (i.e. bedrock at or near ground surface) a clear and concise reason is given.

SECTION B

- A variation request is neither included nor required for this submission.*
- This proposal is for a system which consists entirely of subsurface disposal of effluent.
- This proposed system selection is for a single unit residential dwelling with a maximum wastewater flow not exceeding 1500 L/day and is **not** for an innovative system or a cluster system, as described in the Regulations.
- All clearance distances as required in the regulations have been met. The submission includes drawings which confirm that all clearance distances have been met.
- The system is entirely contained on the same property as the structure which is generating the sewage.
- This proposed system will be the only operating system on the property.
- To the best of my knowledge, this proposal is **not** for a property which has already been refused under the Regulations for the proposed use, nor is it for an application which is presently under review by the Department.
- To the best of my knowledge, this proposal is **not** for a property which is located in the boundaries of a protected water area as designated under Section 106 of the *Environment Act*.

It is an offense under Sections 158 (a) and 158 (b) of the Environment Act to provide false or misleading information. I certify that the information submitted complies with the requirements set out in the Environment Act, On-Site Regulations and On-Site Technical Guidelines including system selection requirements.

Name (print): _____ Name (sign): _____

QP II Certificate #/Engineers NS #: _____ Date: _____

APPLICATION FOR APPROVAL

OFFICE USE ONLY		Application #
Date Rec'd (yyyy/mm/dd)	Ext. Ref. #	NSE File #
Total Fees Due	Fees Paid	Paid in Full Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Receipt #	Water Auth. # (Div. 1 only)	

The non-refundable application fee is for processing the application. Receipt of the fee will not imply an approval or guarantee an approval will be given.

Nova Scotia Environment will only collect, use, and disclose personal information in keeping with the privacy provisions of the Nova Scotia Freedom of Information & Protection of Privacy Act (FOIPOP).

PLEASE PRINT OR TYPE. Complete Sections 1, 2, 3, 4 and 7 for ALL Applications. Complete areas of Sections 5 and 6 and the Submission Standard that are applicable to the specific activities of this application only.

Type of Application:
New Application <input type="checkbox"/> Renewal <input type="checkbox"/> Amendment <input type="checkbox"/> Transfer <input type="checkbox"/>
If applicable, provide the previous Approval # _____

SECTION 1 - OWNER

If there is more than one owner, please indicate who will be the primary applicant for this project and attach a complete list of owners.

Company/Organization/Municipality				
Business Number (BN) if applicable				
Mr. <input type="checkbox"/>	Ms. <input type="checkbox"/>	Mrs. <input type="checkbox"/>	Other: <input type="checkbox"/>	Professional Designation
First Name		Middle Initial		Family Name
Phone	Home ()		Business ()	Ext. Other () Ext.
Fax ()	E-mail			
Civic/Street Address				
Mailing Address (if different than Civic)				
County		City/Town		
Province		Postal Code	Country	

SECTION 2 - APPLICATION CONTACT

Is the Application Contact the same as Section 1 - Owner? Yes No If yes, please skip to Section 3.

Company/Organization/Municipality				
Business Number (BN) if applicable				
Mr. <input type="checkbox"/>	Ms. <input type="checkbox"/>	Mrs. <input type="checkbox"/>	Other: <input type="checkbox"/>	Professional Designation
First Name		Middle Initial		Family Name
Phone	Home ()		Business ()	Ext. Other () Ext.
Fax ()	E-mail			
Civic/Street Address				
Mailing Address (if different than Civic)				
County		City/Town		
Province		Postal Code	Country	

SECTION 3 - SITE/LOCATION OF PROPOSED ACTIVITIES

Property Identification numbers (PID) are available at the Nova Scotia Department of Housing & Municipal Affairs.
 1:50,000 Topo Maps (identifying Easting and Northing) are available at Nova Scotia Environment.

Subdivision Name	
Lot #	
Site Name	
Civic/Street Address	
County	Community
Property Identification # (PID)	
Grid Reference	Easting (6) Northing (7)

SECTION 4 - ACTIVITY

Proposed Activity - Please check (✓) all that apply.

<u>Activity</u>	<u>Complete Sections</u>
-----------------	--------------------------

On-site Sewage Disposal System	<input type="checkbox"/>	4, 5A, 6, 7 and Submission Standard
Subdivision Proposal Report	<input type="checkbox"/>	4, 5B, 6, 7 and Submission Standard

SECTION 5 - ACTIVITY DETAILS

Complete Section 5 to the best of your knowledge. Please provide measurements in the metric units indicated.

5A - Complete for all *Individual Lot On-site Sewage only*

Sewage Disposal System	New <input type="checkbox"/>	Replacement <input type="checkbox"/>	Repair <input type="checkbox"/>	Modification <input type="checkbox"/>	Upgrade <input type="checkbox"/>		
Malfunction Replacement	Yes <input type="checkbox"/>	No <input type="checkbox"/>					
Disposal Field Layout:							
C1 Contour	<input type="checkbox"/>	C1 Raised	<input type="checkbox"/>	C2 Contour	<input type="checkbox"/>	C2 Raised	<input type="checkbox"/>
C3 Contour	<input type="checkbox"/>	Mound	<input type="checkbox"/>	Holding Tank	<input type="checkbox"/>	Sloping Sand Filter	<input type="checkbox"/>
Area Bed	At Grade		<input type="checkbox"/>	Partially Trenched	<input type="checkbox"/>	Fully Trenched	<input type="checkbox"/>
Multiple Trench	At Grade		<input type="checkbox"/>	Partially Trenched	<input type="checkbox"/>	Fully Trenched	<input type="checkbox"/>
Peat System	<input type="checkbox"/>	Other	<input type="checkbox"/>	If other, please specify: _____			
Type of Development:							
Residential: Single Family	<input type="checkbox"/>	Residential: Multiple Unit	<input type="checkbox"/>	Commercial <input type="checkbox"/>	Industrial <input type="checkbox"/>		
Institutional	<input type="checkbox"/>	Other	<input type="checkbox"/>	If other, please specify: _____			
Design Capacity (litres/day) _____							
Assessment Report completed by:		QP1 <input type="checkbox"/>	QP2 <input type="checkbox"/>	Department <input type="checkbox"/>			
Name of Qualified Person:			Certificate #		Engineers NS #		
Variation Requested	Yes <input type="checkbox"/>	No <input type="checkbox"/>					

5B - Request for Written Response for a Subdivision Proposal (Response only - no Approval issued)

Proposed Number of Lots:

SECTION 6 - SUPPORTING DOCUMENTATION TO ATTACH

All supporting documentation is to be submitted in accordance with the "Approvals Procedures Regulations." If applicable, the following documents must be submitted with this Application; however, additional information may be requested.

Note: A legend must be supplied for all mapping describing symbols used, scale and north orientation.

Attach for All applications	
	Copy of the property deed, lease or letter proving the applicant's legal right to conduct the activity on the site
	Submission Checklist
	Copy of subdivision, surveyor's or plot plan
	Qualified Person's Assessment Reports

If information submitted is incomplete, or if supporting documentation is of poor quality (plans, maps, etc.), the application may be delayed, returned or rejected.

SECTION 7 - DECLARATION

Correspondence is to be returned to: Owner OR Application Contact

Owner's Signature _____ Date (yyyy/mm/dd) _____

Name (Please print or type) _____

OWNER'S AUTHORIZATION (If Correspondence Is to Be Returned to Application Contact)

If you are acting on behalf of the owner, you must:

1. Have the **Owner** sign above **or**
Attach a letter of authorization from the **Owner** identified on Page 1, Section 1, of this application.
2. Identify yourself as the **Application Contact** on Page 1, Section 2, of this application.
3. Sign the declaration below.

I certify that I am acting with the owner's full consent.

Signature _____ Date (yyyy/mm/dd) _____

Name (Please print or type) _____

SUBMISSION STANDARD

All applications must comply with the Act, Regulations, Guidelines and any policies within the Department. A completed copy of this form must accompany each application.

APPLICANTS NAME: _____ **APPLICATION #:** _____

SUBDIVISION NAME: _____ **LOT NUMBER:** _____

SOIL EVALUATION TESTS

TEST PIT PROFILE (M)

Evaluation Date: _____

TOTAL DEPTH:	m	SOIL STRATUM	SOIL TYPE	DEPTH OF SOIL (mm)	DENSITY	MOISTURE
BEDROCK AT:	m	ORGANIC	organic mat			
WATER TABLE:	m	1 st layer				
SLOPE:	%	2 nd layer				
ROOTS TO:	m	3 rd layer				
MOTTLING AT:	m	4 th layer				

Permeability of soil in-situ:		m - meter 1 meter = 1000 mm
Flow rate:		mm - millimeter (1 mm = 0.001 meter)
Test method:		All measurements should be calculated from the top of the test pit.

SYSTEM SELECTION CRITERIA

Daily flow	Permeable soil type	Depth of permeable soil	Slope	Soil permeability (In-situ test)
litres/day: _____		mm: _____	%: _____	m/s: _____

SYSTEM SELECTION FROM TECHNICAL GUIDELINES

Type of Disposal Field:		Imported sand fill required	<input type="checkbox"/> YES <input type="checkbox"/> NO
Distribution Trench Dimensions:	Length: _____ m Width: _____ m	Permeability Rate	_____ m/sec
Cut at Toe of Trench:	mm	Width of Buffer - downslope - upslope	_____ m _____ m
Interceptor Trench Liner:	<input type="checkbox"/> YES <input type="checkbox"/> NO depth: _____ mm <input type="checkbox"/> YES <input type="checkbox"/> NO thickness: _____	Depth of Buffer (at 5 m from trench)	_____ mm
Pump or Siphon Capacity Watertight Testing:	litres <input type="checkbox"/> YES <input type="checkbox"/> NO	Septic Tank Capacity Watertight Testing:	_____ litres <input type="checkbox"/> YES <input type="checkbox"/> NO

Actual Clearance Distances**

From Nearest	To System	To Tanks*	From Nearest	To System	To Tanks*	From Nearest	To System	To Tanks*
Lot Boundary	m	m	Cistern	m	m	Water Distribution	m	m
Downslope Boundary	m	m	Watercourse	m	m	Foundation Drain	m	m
Drilled Well	m	m	Wetland	m	m	Other	m	m
Dug Well	m	m	Intermittent Drain	m	m	Other	m	m

* The shortest distance from any of the following: septic tank, pump or siphon chamber and effluent pipe

** Enter actual distance, or N/A or > 60 meters

SUBMISSION STANDARD

All applications must comply with the Act, Regulations, Guidelines and any policies within the Department. A completed copy of this form must accompany each application. (A separate sketch or drawing may be utilized provided it includes the requested information).

SITE EVALUATION OF LOT/ PROPOSED SYSTEM

Sketch of lot, showing location of soil evaluation test pits, direction of slope, watercourse and other features that may influence the selection or design of the system on the lot or **within 60 meters of any part of the proposed system** including a sketch of proposed On-site Sewage Disposal System Selection/Design*. The test pit location is shown in reference to two fixed points on the property and is within 6 meters of the disposal field location. The placement of the system must at all times meet the minimum clearance distances in the regulations unless a variance is specified in the terms and conditions of the Approval. If this application is for the replacement of a malfunctioning system; show the location of the existing system.

* Cross sectional diagrams of proposal to be attached to this form for submission.

DATE: _____

QUALIFIED PERSON: _____
(SIGNATURE)

CERTIFICATE OF QUALIFICATION/Engineers NS #: _____

_____ (PRINT NAME)



APPLICATION FOR VARIANCE

Nova Scotia Environment will only collect, use, and disclose personal information in keeping with the privacy provisions of the *Nova Scotia Freedom of Information & Protection of Privacy Act (FOIPOP)*.

Application

for a Variance to the Regulations Respecting On-site Sewage Disposal Systems.

NAME OF APPLICANT:	
MAILING ADDRESS:	
COMMUNITY:	POSTAL CODE:
TELEPHONE:	
SIGNATURE OF APPLICANT:	

SITE CIVIC ADDRESS:	SITE PID:
SITE COMMUNITY:	SITE LOT No:

SECTION OF THE REGULATIONS WHERE A VARIANCE IS REQUIRED:

Section

REASON FOR REQUEST (Note: Must Include a Statement Regarding Potential for Adverse Effect):

SIGNATURE OF QUALIFIED PERSON:	PRINT NAME:
CERTIFICATE / Engineers NS #:	

FOR OFFICE USE

REVIEWER:	APPROVAL No:
VARIANCE(S) RECOMMENDED: <input type="checkbox"/> YES <input type="checkbox"/> NO	
COMMENTS:	

VARIANCE(S) GRANTED : <input type="checkbox"/> YES <input type="checkbox"/> NO	
ADMINISTRATOR:	DATE :



Application for a Request of Variance to the Regulations Respecting On-site Sewage Disposal Systems

Owner: _____
 PID: _____
 Community: _____
 Subdivision: _____
 Lot #: _____

This checklist and application is to be included with every variance request. By completing this checklist the Qualified Person certifies that the variance request and supporting documents conforms with the *Environment Act*, the *On-Site Sewage Disposal Systems Regulations*, and the *On-Site Sewage Disposal Systems Technical Guidelines*.

Section A

- The minimum lot size requirements, clearance distances and specifications of the *On-site Sewage Disposal Systems Regulations* and *Guidelines* can NOT be met;
- The lot was intended for development including the installation of an on-site sewage disposal system.
- The separation distance to a dug or drilled well, cistern or contained water system on **all neighbouring properties** as specified under Section 13 of the *OSSDS Regulations* can be maintained.
- The 1 m separation distance to bedrock, groundwater or soil with permeability greater than 500×10^{-6} metres per second as specified under Section 13 of the *Regulations* can be achieved.

Section B (the following documentation MUST be included with variance request):

- Documentation including a sketch that the minimum clearance distances, as per Section 13 of the *Regulations* were maintained where possible or otherwise maximized.
- Report completed by the Qualified Person Level 1 that outlines **reasons** why failure to meet the regulations will not result in the increased possibility of an adverse effect.
- Documentation that dimensions of any imported sand fill will meet the requirements the *Guidelines* and are to be contained within the lot boundary.
- A report from a hydrogeologist licensed to practice in the Province of Nova Scotia if the request includes a variance of the separation distance from the on-site sewage disposal system to a dug or drilled well. This report is to confirm that if the variance were granted, it would not result in an increased possibility of an adverse effect.
- Documentation including a sketch that indicates that the separation distance to a dug or drilled well, cistern or contained water system on **all neighbouring properties** are no less than the separation distances specified under Section 13 of the *Regulations*.
- All documentation / information on the creation of the lot.

Name (print): _____ Name (sign): _____

Engineers NS #: _____ Date: _____

Revision: April 2013



SUBMISSION STANDARDS FOR HOLDING TANK APPLICATIONS

The Level I qualified person must submit in writing the reasons why the lot is unsuitable and cannot support a septic tank and disposal field. In the case of a Level 2 qualified person, the suitability of a lot for a holding tank must be determined by the department or a Level 1 qualified person before the Level 2 qualified person can select a holding tank. There must be a provision made for a title box, which would include the plan number and the date of submission.

Sketch of Property & Proposed Development

- A signed serviced agreement between the septic tank cleaner and the homeowner (the holding tank sewage management program form may be utilized)
- Property lines
- Location of existing & proposed buildings
- Location and type of existing & proposed wells including neighbouring properties
- Location of watercourses, wetlands, marine water bodies and other features that may influence the selection or design of the system on the lot and adjoining lots and **within 60 meters of any part of the proposed holding tank.**
- Existing & proposed driveways, roads, and walkways
- Proposed location of holding tank. **The proposed holding tank location must be shown in reference to two fixed points on the property and is within 6 meters plus or minus of the holding tank location. The placement of the holding tank must at all times meet the minimum clearance distances in the regulations unless a variance is specified in the terms and conditions of the Approval.** If the application is for the replacement of a malfunctioning system; show the location of the existing system.
- All clearance distances described in the regulations (variation maybe required)
- Location of test pits inspected on the property and any other testing locations such as in-situ permeability tests
- Percentage slope of property
- Direction of slope on property

Test Pit Log

- Recent weather conditions
- Total soil depth
- Effective soil depth
- Total depth of test pit
- Amount of organic layer
- Root penetration
- Depth to bedrock

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Test Pit Log Cont'd:

- Depth to a layer that is unsuitable and/or impermeable (refer to guidelines)
- Determination of highest seasonal water table:
 - presence and depth of mottling
 - depth to water
 - moisture contents (saturated, moist, dry, etc.)
- Soil profile:
 - description of soil
 - depth of each layer
 - texture of soil (sandy silt, silty clay, etc.)
 - moisture contents (saturated, moist, dry, etc.)
 - density (loose, medium compact, tight)
 - colour

On-Site Sewage Disposal System

- Detailed plan of system
- Interceptor (if required)
- Holding tank:
 - size of tank (litres)
 - type of tank pre-cast concrete, PVC, fiberglass, etc.)
- Alarm (audible/visible)

Design/Selection Notes

- Projected flows (litres per day)
- Rationale for selection of system
- Other site specific design requirements

HOLDING TANK SEWAGE MANAGEMENT PROGRAM

Nova Scotia Environment will only collect, use, and disclose personal information in keeping with the privacy provisions of the Nova Scotia Freedom of Information & Protection of Privacy Act (FOIPPOP).

NAME OF APPLICANT:	PHONE:
SITE ADDRESS:	SITE COMMUNITY:
SITE COUNTY:	SITE POSTAL CODE:
SITE PID:	SITE LOT No:

OWNER'S UNDERTAKING

I _____ hereby undertake to have _____ currently employed by _____ to empty the contents _____
name of applicant
name of septic tank cleaner
name of company
of the holding tank proposed to be installed on my property. This service is to be provided on a routine basis as required.

I further undertake to notify Nova Scotia Environment of any changes to this arrangement.

Applicant's Signature: _____ Date: _____

SEPTIC TANK CLEANER'S UNDERTAKING

I, _____ currently employed by _____
name of septic tank cleaner name of company
certify that I have inspected the property owned by the above named applicant and I am satisfied that the lot and the location of the proposed holding tank have satisfactory road access to allow routine pumping of its contents.

I further certify that _____ has retained the company to empty the contents _____
name of applicant
of the proposed holding tank, which services are to be continued on a routine basis as required.

I further certify the company will dispose of septage at an approved site and that the operator of the approved site has agreed to accept the septage.

Septic Tank Cleaner Signature: _____ Print Name: _____

Qualification #: _____ Date: _____



SUBMISSION STANDARDS FOR FINAL INSPECTIONS

- **Owner Information**
 - Approval number
 - Name of applicant
 - Address of owner
 - Location of lot
 - Lot number
 - Date of installation
- **Installer/Designer/Selector**
 - Name of installer
 - License number of installer
 - Name of designer/selector
 - License number (if applicable)
- **Type of System Installer**
 - Multiple trench
 - Area Bed
 - C1, C1Raised, C2, C2Raised, C3
 - Mound
 - Peat
 - Sloping Sand Filter
 - Holding Tank
 - Other
- **Materials**
 - Pipe:
 - i) type (perforated, solid pipe with holes drilled, etc.)
 - ii) diameter
 - iii) length
 - iv) hole spacing if holes were drilled on-site
 - v) conforms to CSA Standards
 - Crushed rock:
 - i) amount placed
 - ii) meets regulatory approval
 - Barrier Material
 - i) approved type
 - Imported Fill:
 - i) amount placed
 - ii) certified by installer as meeting technical guidelines
 - iii) certified independently as meeting technical guidelines

- iv) tested on-site by qualified person
 - Filter Sand:
 - i) amount placed
 - ii) certified as approved
 - iii) certified independently as approved
 - iv) tested on-site by qualified person
 - Interceptor Ditch:
 - i) required
 - ii) to be constructed
 - iii) swale required
 - Septic Tank:
 - i) type
 - ii) size
 - iii) conforms to CSA standards
 - Pump Chamber:
 - i) discharge capacity
 - ii) total volume
 - iii) alarm (audible/visual)
 - Water Supply
 - i) type and location
- **Other**
- Sketch of installed system and location on lot:
 - i) distance of all portions of system (tank, disposal field) from important elements as outlined in the on-site sewage disposal system regulations
 - property boundaries
 - watercourses/wetlands
 - buildings
 - right-of-ways
 - drains/ditches
 - ii) The location of the system (disposal field and septic tank or holding tank) must be shown in reference to two fixed points on the property.
 - iii) slopes on pipe
 - iv) comments from qualified person that the system is installed in accordance with the on-site regulations, technical guidelines and the terms and conditions of the approval
 - A completed and signed copy of the Completion of Work Form for the on-site sewage disposal system as completed by the Installer must accompany the submission of the Qualified Person's Certificate of Installation.
 - A certificate of Installation must be submitted within 15 days of the completion of the system.

- If an interm Certificate of Installation must be submitted as a result of conditions at the time of the inspection; a final Certificate of Installation must be submitted by June 20 of the same year if the inspection was completed between January to April or June 20 of the following year if the inspection was completed between October to December.

CERTIFICATE OF INSTALLATION FORM

 INTERIM REPORT
 FINAL REPORT

APPROVAL HOLDER	SYSTEM INSTALLER	QUALIFIED PERSON
Name:	Qualification #:	Qualification #:
Address:	Name:	Name:
	Address:	Address:
Postal Code:	Postal Code:	Postal Code:
Phone No.:	Phone No.:	Phone No.:
Lot: Location:		Design Flow: Liters/day

C - COMPLIANT**N - NON COMPLIANT****NA - NOT APPLICABLE****NP - NOT IN PLACE**

TYPE OF SYSTEM: C1 C1 Raised Standard C2 C2 Raised C3
 Sloping Sand Filter Area Bed Multiple Trench Peat Mound Holding Tank
 Other (Specify) _____

SKETCH OF DISPOSAL SYSTEM

(Please identify separation distances to wells, watercourses and property boundaries. **The location of the disposal field and septic tank must be shown in reference to two fixed points on the property.**)

System Specifications	
System length	Meters
System width	Meters
Pipe quality	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA
Pipe slope	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA
Crushed rock	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA
Excavation	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA
Interceptor ditch	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA
Barrier material	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA
Imported fill	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA
Septic Tank	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA
Holding Tank	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA
Watertight	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA
Pump Chamber	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA
Watertight	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA
Siphon	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA
Tested	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA
Pump	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA
Tested	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA
Alarm Present	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA
Backfill	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NP
Final Cover Mtl	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NP
Seed/Sod	<input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NP

ACTUAL CLEARANCE DISTANCES (M = METERS)

From Nearest	To System	To Tanks	From Nearest	To System	To Tanks	From Nearest	To System	To Tanks
Lot Boundary	M	M	Cistern	M	M	Water Distribution	M	M
Downslope Boundary	M	M	Watercourse	M	M	Foundation Drain	M	M
Drilled Well	M	M	Wetland	M	M	Other	M	M
Dug Well	M	M	Intermittent Drain	M	M	Other	M	M

Approval Holders Water Supply: Drilled Well Dug Well Municipal Proposed Existing
 Cistern Surface Water Other _____

Completion of Work Form Attached: Yes No

INTERIM REPORT ONLY

Signature of Qualified Person: _____ Date of Inspection: _____
The system was installed between October 1 and April 1, as a result it is not possible to place the final cover material, and it would be impractical to sod or seed the field. All work with the exception of the final cover (backfill, final cover material, and seed/sod) has been completed in accordance with the On-Site Sewage Disposal Systems Regulations and complies with the approval issued. The disposal system has been protected from erosion. All damages will be repaired prior to the placing of final cover material and sod or seeding. The work will be completed by June 20, 20_____, and a Final Certificate of Installation Form will be submitted.

Signature of Approval Holder: _____ Date: _____

Signature of Installer: _____ Date of Installation: _____

FINAL REPORT ONLY

Signature of Qualified Person: _____ Date of Inspection: _____

Signature of Installer: _____ Date of Installation: _____

Nova Scotia Environment will only collect, use, and disclose personal information in keeping with the privacy provisions of the *Nova Scotia Freedom of Information & Protection of Privacy Act (FOIPOP)*.

Revision: April 2013

**COMPLETION OF WORK FORM FOR ON-SITE SEWAGE DISPOSAL SYSTEM
INSTALLERS**

Name of Approval Holder: _____ Qualified Person: _____

Location of Property: _____ Lot Number: _____

Municipality: _____ PID: _____

The following applies to a Septic Tank(s) or a Holding Tank(s)			
Yes	No	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The tank has been installed in accordance with manufacturers recommended procedures
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The tank has been sized as per the approval
The following items have been installed in accordance with the approval:			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pipe
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Barrier Material
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Crushed Rock
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Imported Sand Fill
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Filter Sand
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Interceptor/Swale
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pump Chamber/Siphon Chamber
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pump
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Alarm
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Final Cover Material
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Seed or Sod, if no, installer to notify owner of requirement

I have installed this system in accordance with the Approval, the *On-site Sewage Disposal Systems Regulations* and the *On-site Sewage Disposal Systems Technical Guidelines*.

Installer's Signature: _____

Print Name _____

Qualification #: _____

Date: _____



Environment

Environmental Monitoring and Compliance Division

ON-SITE SEWAGE DISPOSAL SYSTEM COMPLETION THREE DAY NOTIFICATION*

NOTIFIER:	
DATE/TIME NOTIFIED:	
APPROVAL NUMBER:	
APPROVAL HOLDER:	
LOCATION:	
QP CONTACT INFO:	
INSTALLER CONTACT INFO:	
SYSTEM COMPLETION DATE:	

* Notes: 3 day notification is given by the Qualified Person 3 business days prior to **covering** the system (ie. at the end of 3 days the field is complete but still open for inspection). For example; if the system installation is to be ready to cover on Thursday, the three day notification would be given on Monday. After the 3 day notice has been submitted to NSE, the system may be inspected at **any stage of completion** within the 3 days. Contact QP for site specific information.

Information Taken By: _____



SEPTIC SYSTEM FLUSHING REPORT FORM

Name of Owner: _____ Phone #: _____

Site Address: _____

County: _____ Postal Code: _____

Date: _____

Please describe how system was flushed, including access points used in order to clean the system and any other observations made at time of flushing.

Complete or attach a sketch of building lot, dwelling, and areas of repair as noted above.

This report must be submitted within three days of flushing the system

Certified Septic Tank Cleaner (Flusher): _____ Certificate Number: _____

Certified Septic Tank Cleaner (Pumper): _____ Certificate Number: _____

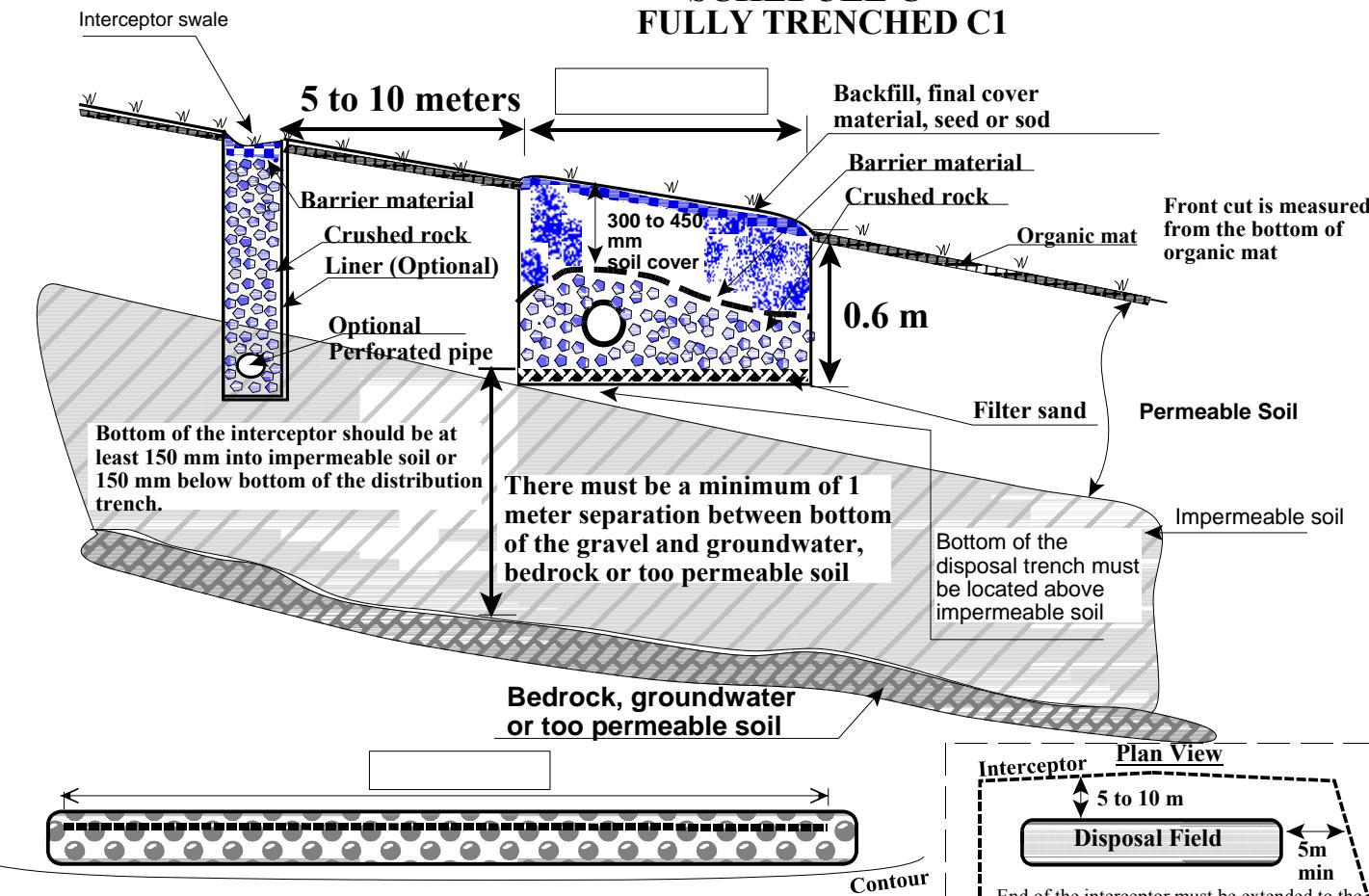
Enclosed disposal systems cross sections can be used when submitting an on-site sewage disposal system application.

When enclosed cross sections are used, make sure that all pertinent information, such as buffer size, imported sand fill permeability, trench cut etc., is provided on the drawing.

When specific site conditions require a different cross-section than provided in this appendix submit an appropriate drawing and explain changes.

It is a Qualified Person's responsibility to make sure that the selected type of disposal system is appropriate for the specific site conditions

SCHEDULE C FULLY TRENCHED C1



General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system unless the system is designed by a professional engineer.

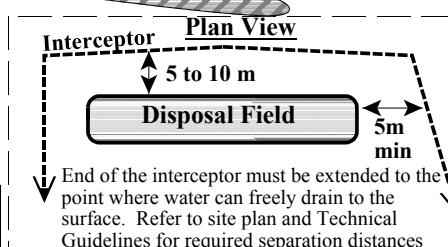
Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

It is the applicants responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines, and conditions of the Approval.

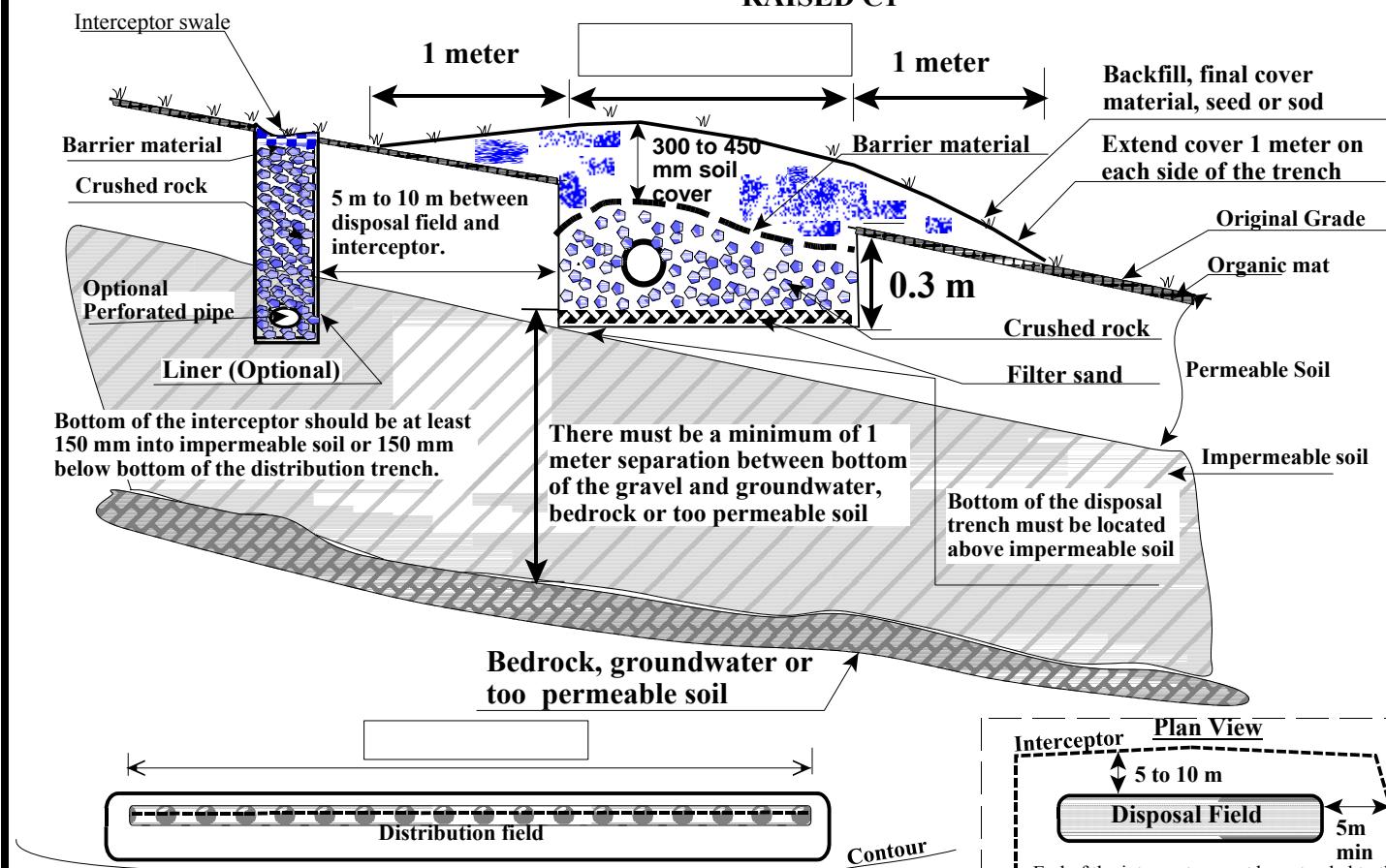


Selection Criteria:

NOT TO SCALE

Flow (l/d):		Applicant:
Slope (%):		Approval No.:
Soil type:		Location:
Soil depth (mm):		Qualified Person:

SCHEDULE C RAISED C1



General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system unless the system is designed by a professional engineer.

Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

It is the applicants responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

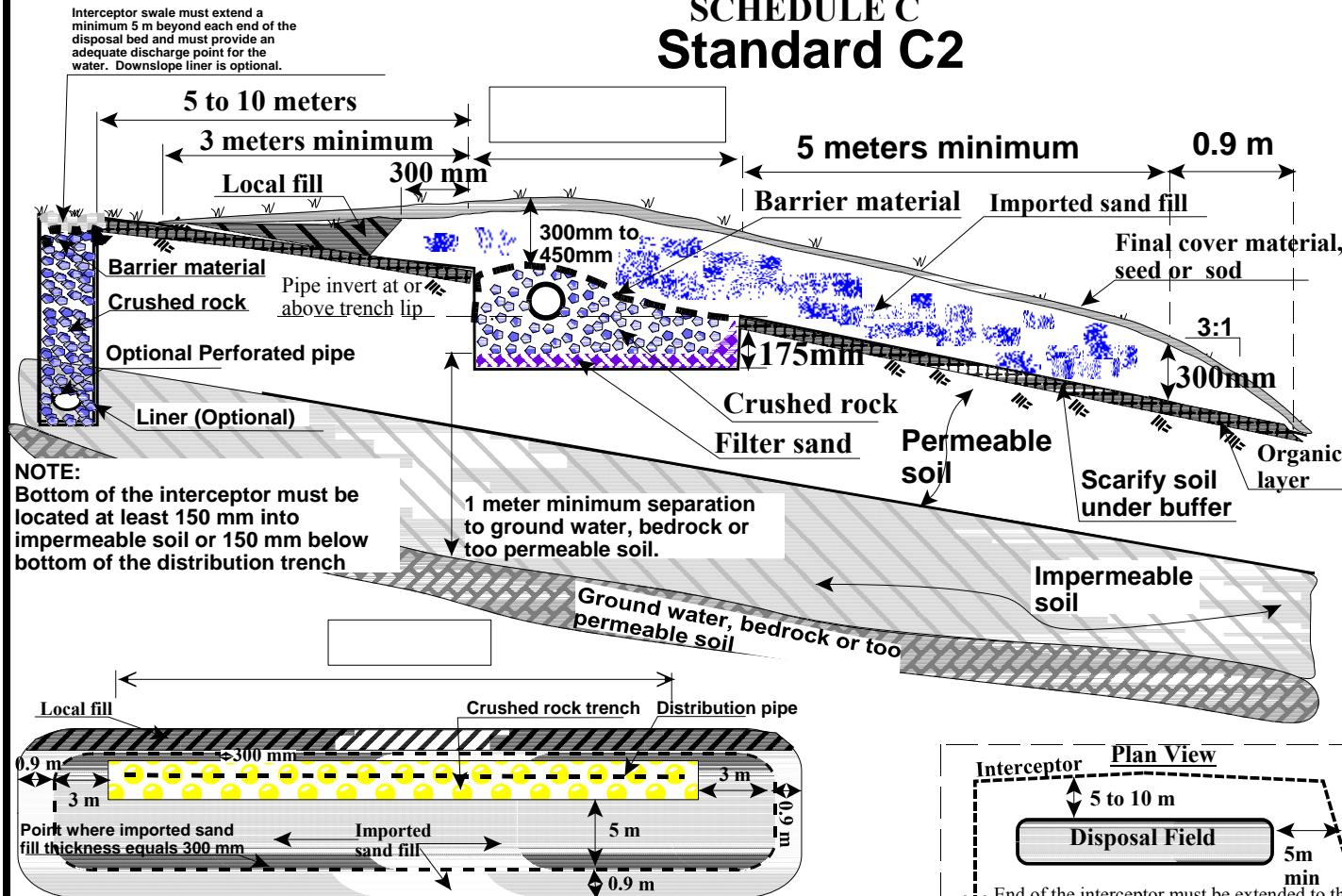
All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines, and conditions of the Approval.

Selection Criteria:

NOT TO SCALE

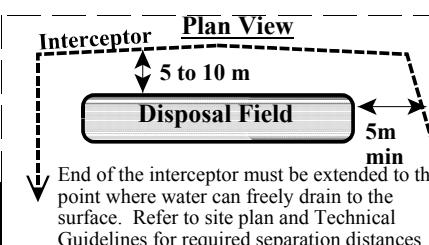
Flow (l/d):		Applicant:
Slope (%):		Approval No.:
Soil type:		Location:
Soil depth (mm):		Qualified Person:

SCHEDULE C Standard C2



DISPOSAL FIELD REQUIREMENTS

100	mm	Final cover material, seed or sod
200 to 350	mm	Imported sand fill
Required over crushed rock		Barrier material
75	mm	Crushed rock above pipe
	mm	Distribution pipe diameter
	m	Distribution pipe length
125	mm	Crushed rock below pipe
75	mm	Filter sand Permeability m/s:
	m	Interceptor/Swale depth Liner Yes No
	m/s	Imported sand fill permeability Minutes at 20°C



General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system unless the system is designed by a professional engineer.

Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

It is the applicants responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

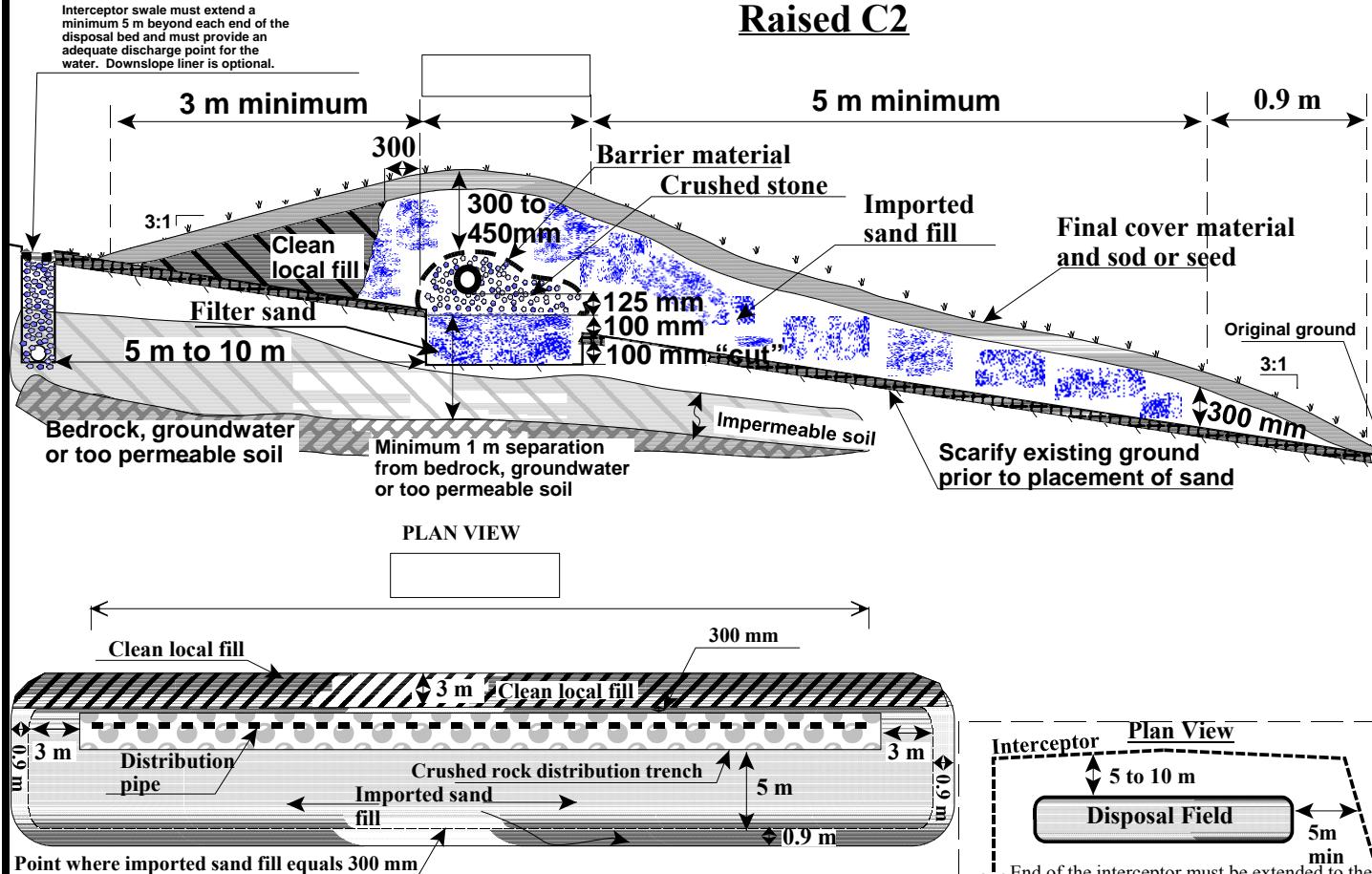
All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations , On-Site Sewage Systems Technical Guidelines , and conditions of the Approval.

Selection Criteria:

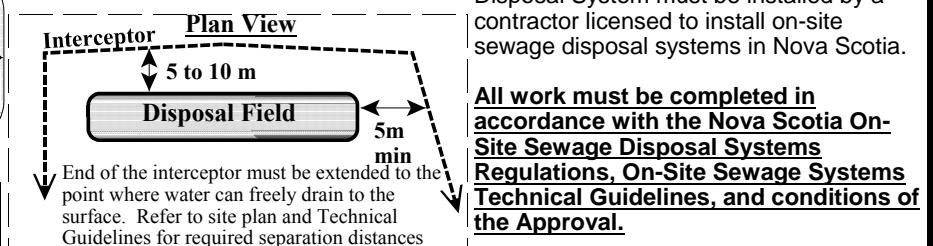
NOT TO SCALE

Flow (l/d):		Applicant:
Slope (%):		Approval No.:
Soil type:		Location:
Soil depth (mm):		Qualified Person:

SCHEDULE C Raised C2



DISPOSAL FIELD REQUIREMENTS		
100	mm	Final cover material, seed or sod
200 to 350	mm	Imported sand fill
Required over crushed rock		Barrier material
75	mm	Crushed rock above pipe
	mm	Distribution pipe diameter
	m	Distribution pipe length
125	mm	Crushed rock below pipe
200	mm	Filter sand Permeability m/s:
	m	Interceptor/Swale depth
	m/s	Imported sand fill permeability



General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system unless the system is designed by a professional engineer.

Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

It is the applicants responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines, and conditions of the Approval.

Selection Criteria:

NOT TO SCALE

Flow (l/d):

Applicant:

Slope (%):

Approval No.:

Soil type:

Location:

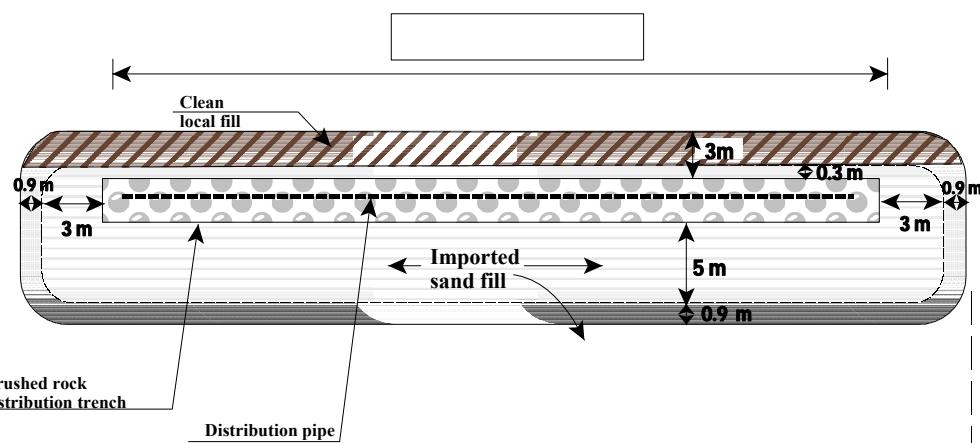
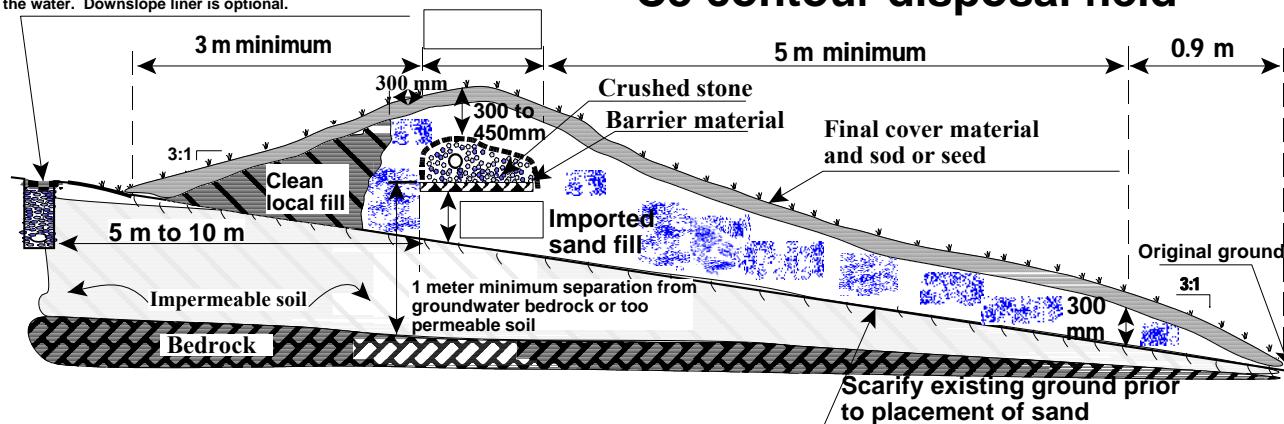
Soil depth (mm):

Qualified Person:

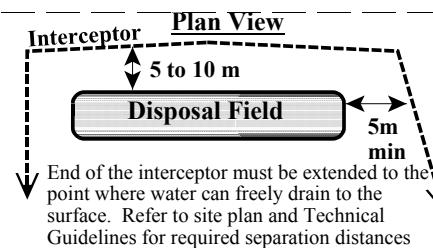
SCHEDULE C

C3 contour disposal field

Interceptor swale must extend a minimum 5 m beyond each end of the disposal field and must provide an adequate discharge point for the water. Downslope liner is optional.



**Use this cross section
when natural soil depth is
150 mm or more**



General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system unless the system is designed by a professional engineer.

Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

It is the applicant responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines, and conditions of the Approval.

DISPOSAL FIELD REQUIREMENTS		
100	mm	Final cover material, seed or sod
200 to 350	mm	Clean local backfill or Imported sand fill as indicated
Required over crushed rock		Barrier material
75	mm	Crushed rock above pipe
	mm	Distribution pipe diameter
	m	Distribution pipe length
125	mm	Crushed rock below pipe
75	mm	Filter sand Permeability m/s: Minutes at 20°C
	m	Interceptor/Swale depth Liner Yes No
	m/s	Imported sand fill permeability Minutes at 20°C
	mm	Imported sand fill under distribution bed

Selection Criteria:

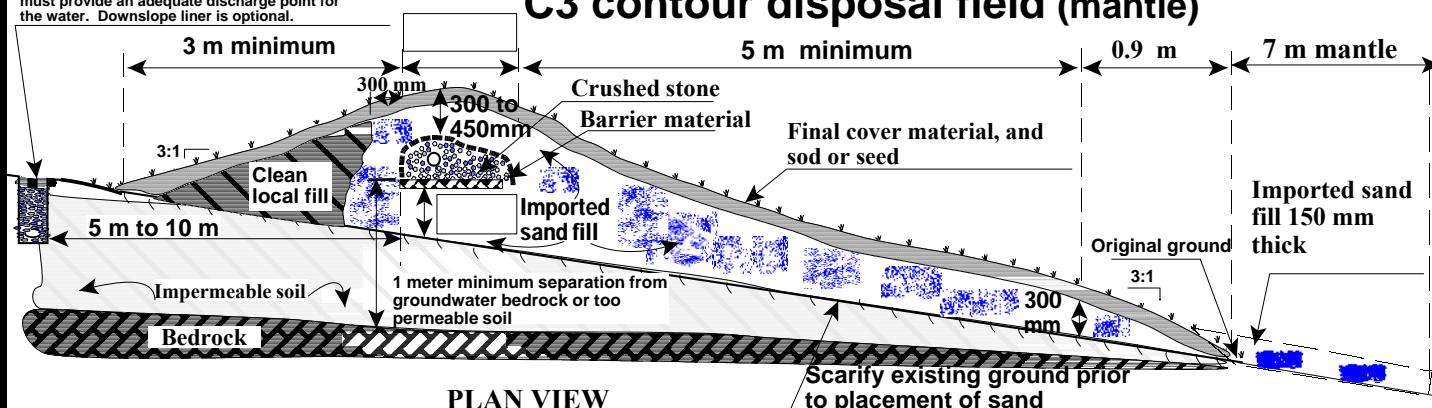
NOT TO SCALE

Flow (l/d):		Applicant:
Slope (%):		Approval No.:
Soil type:		Location:
Soil depth (mm):		Qualified Person:

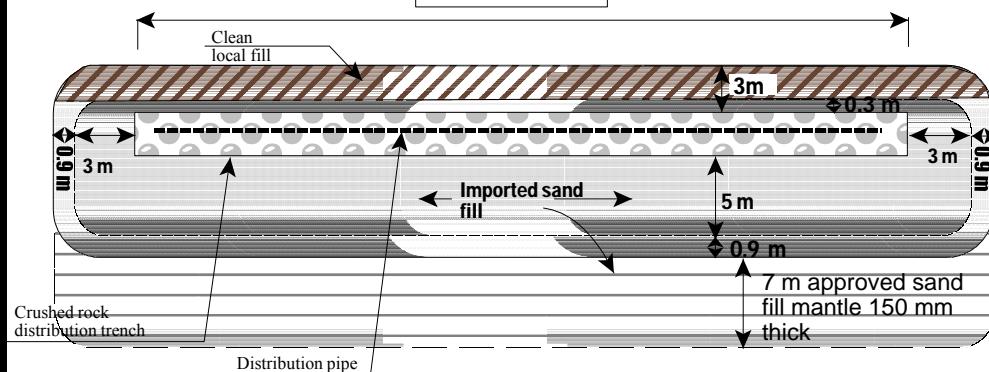
SCHEDULE C

C3 contour disposal field (mantle)

Interceptor swale must extend a minimum 5 m beyond each end of the disposal field and must provide an adequate discharge point for the water. Downslope liner is optional.

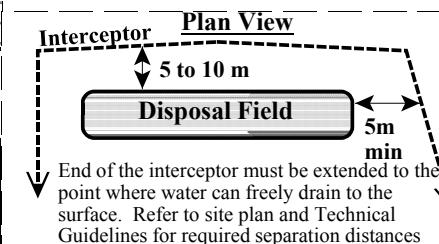


PLAN VIEW



**Use this cross section
when there is less than
150 mm of natural soil
over the bedrock**

DISPOSAL FIELD REQUIREMENTS		
100	mm	Final cover material, seed or sod
200 to 350	mm	Imported sand fill
Required over crushed rock		Barrier material
75	mm	Crushed rock above pipe
	mm	Distribution pipe diameter
	m	Distribution pipe length
125	mm	Crushed rock below pipe
75	mm	Filter sand Permeability m/s: Minutes at 20°C
	m	Interceptor/Swale depth Liner Yes No
	m/s	Imported sand fill permeability Minutes at 20°C
	mm	Imported sand fill under distribution trench
150	mm	Imported sand mantle 7 meters downslope



End of the interceptor must be extended to the point where water can freely drain to the surface. Refer to site plan and Technical Guidelines for required separation distances

General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system unless the system is designed by a professional engineer.

Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

It is the applicants responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

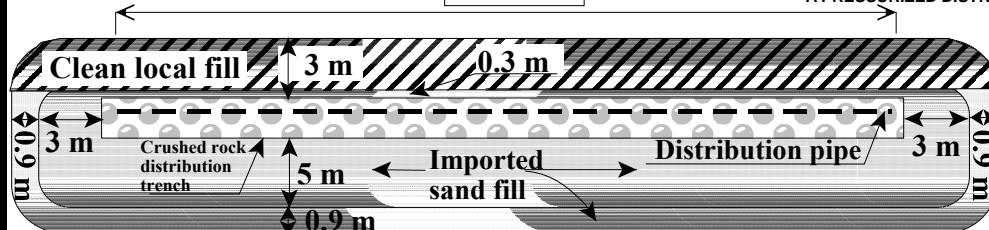
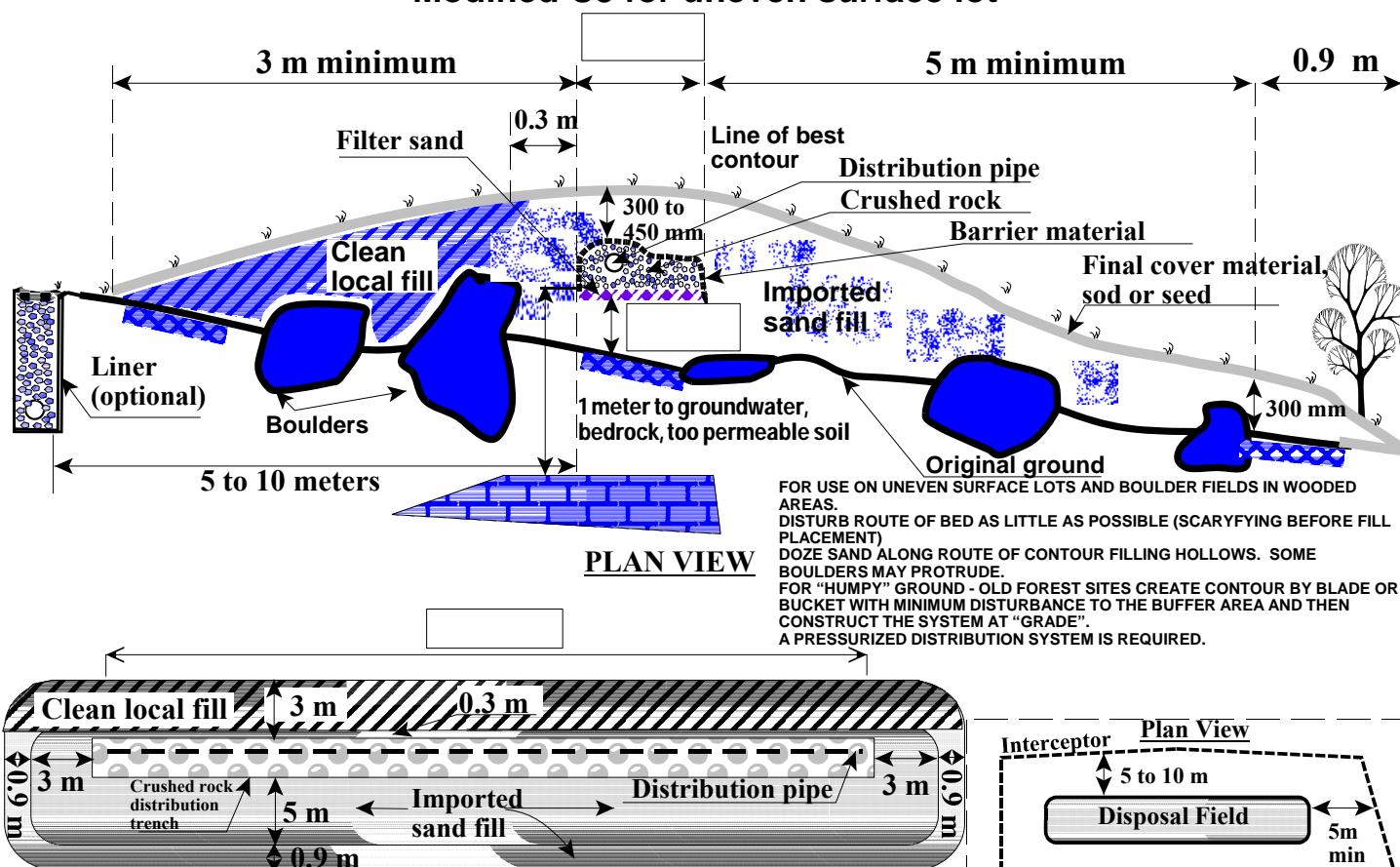
Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines, and conditions of the Approval.

Selection Criteria:	NOT TO SCALE
Flow (l/d):	Applicant:
Slope (%):	Approval No.:
Soil type:	Location:
Soil depth (mm):	Qualified Person:

SCHEDULE C

Modified C3 for uneven surface lot



DISPOSAL FIELD REQUIREMENTS

100	mm	Final cover material, seed or sod
200 to 350	mm	Imported sand fill
Required over crushed rock		Barrier material
75	mm	Crushed rock above pipe
	mm	Distribution pipe diameter
	m	Distribution pipe length
125	mm	Crushed rock below pipe
75	mm	Filter sand Permeability m/s: _____
	m	Interceptor/Swale depth Liner Yes No
	m/s	Imported sand fill permeability Minutes at 20°C: _____
	mm	Imported sand fill under distribution trench Soil type: _____

General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system unless the system is designed by a professional engineer.

Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

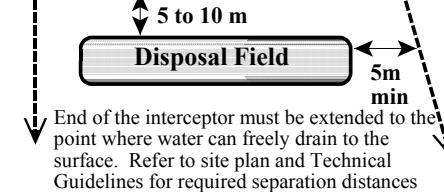
Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

It is the applicant responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines, and conditions of the Approval.

Plan View



Selection Criteria:

NOT TO SCALE

Flow (l/d):

Applicant:

Slope (%):

Approval No.:

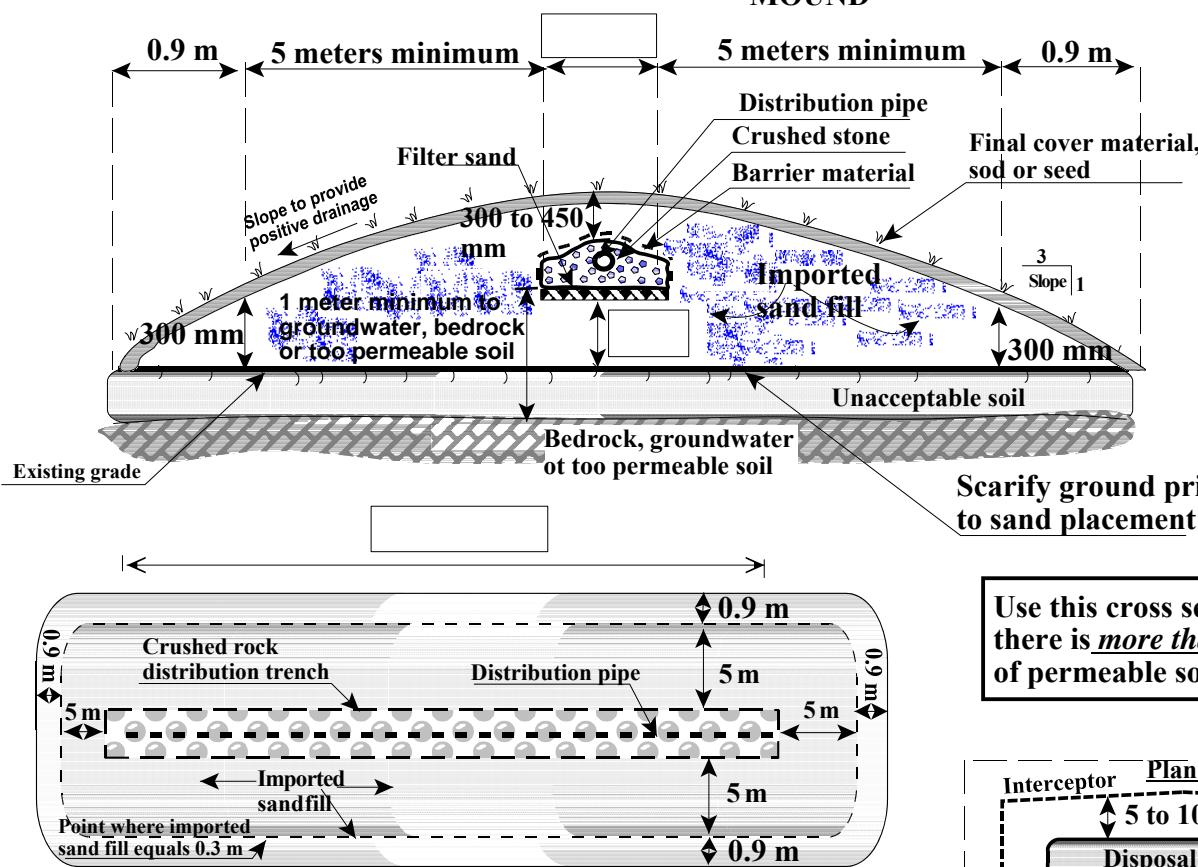
Soil type:

Location:

Soil depth (mm):

Qualified Person:

SCHEDULE C MOUND



DISPOSAL FIELD REQUIREMENTS						
100	mm	Final cover material, seed or sod				
200 to 350	mm	Imported sand fill				
Required over crushed rock	Barrier material					
75	mm	Crushed rock above pipe				
	mm	Distribution pipe diameter				
	m	Distribution pipe length				
125	mm	Crushed rock below pipe				
75	mm	Filter sand	Permeability m/s:		Minutes at 20°C	
	m	Interceptor/Swale depth	Liner	Yes	No	
	m/s	Imported sand fill permeability		Minutes at 20°C		
	mm	Imported sand fill under distribution trench				

General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system unless the system is designed by a professional engineer.

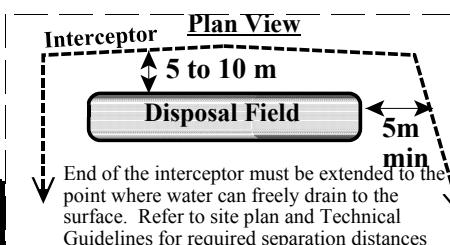
Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

It is the applicants responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

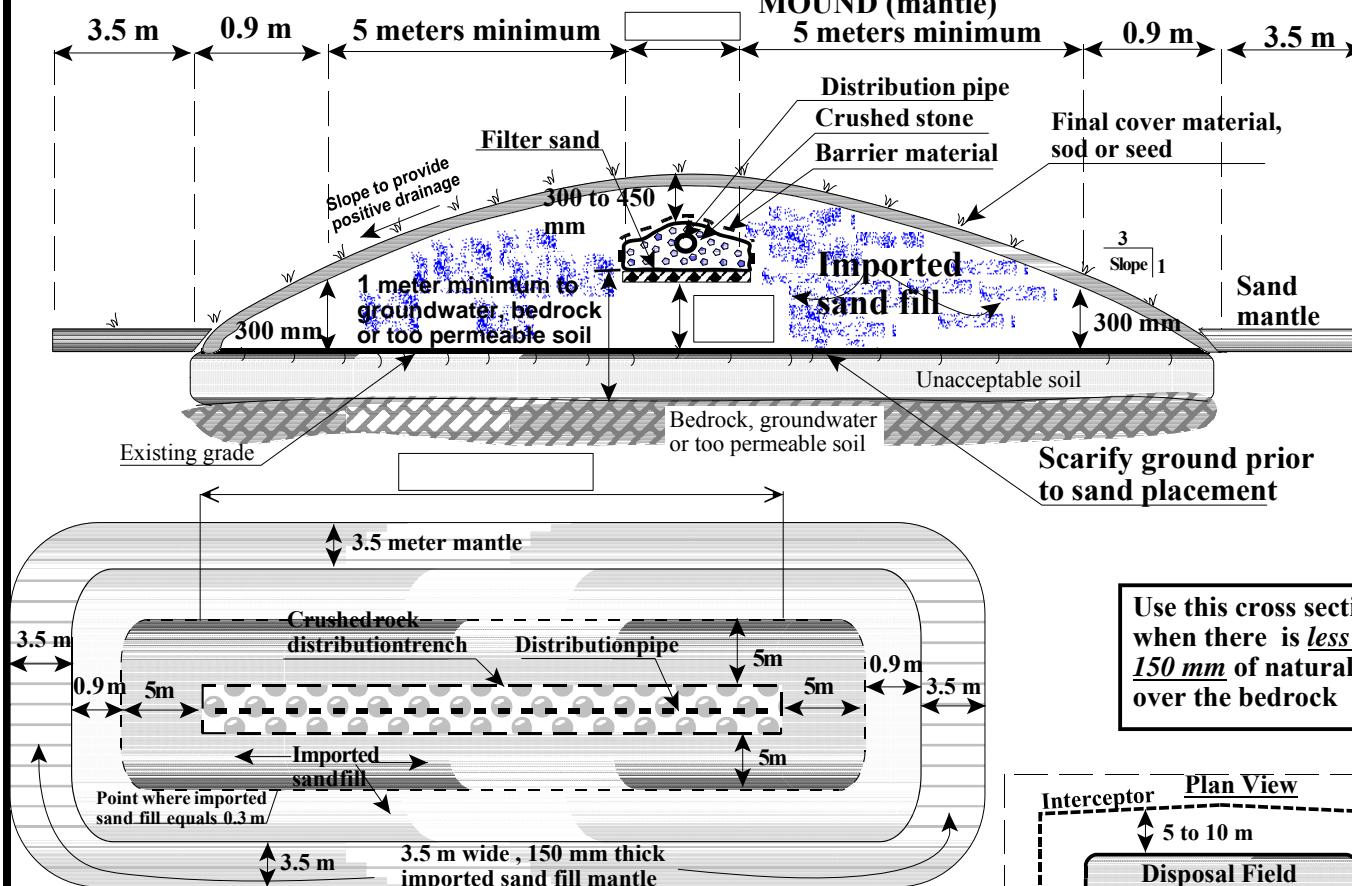
Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

All work must be completed in accordance with the [Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines, and conditions of the Approval](#).



Selection Criteria:	NOT TO SCALE
Flow (l/d):	Applicant:
Slope (%):	Approval No.:
Soil type:	Location:
Soil depth (mm):	Qualified Person:

SCHEDULE C
MOULD (mantle)



DISPOSAL FIELD REQUIREMENTS

100	mm	Final cover material, seed or sod
200 to 350	mm	Imported sand fill
Required over crushed rock		Barrier material
75	mm	Crushed rock above pipe
	mm	Distribution pipe diameter
	m	Distribution pipe length
125	mm	Crushed rock below pipe
75	mm	Filter sand Permeability m/s: Minutes at 20°C
	m	Interceptor/Swale depth Liner Yes No
	m/s	Imported sand fill permeability Minutes at 20°C
	mm	Imported sand fill under distribution trench
150	mm	Imported sand mantle 7 meters downslope

General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system unless the system is designed by a professional engineer.

Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

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Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines, and conditions of the Approval.

Selection Criteria:

NOT TO SCALE

Flow (l/d):

Applicant:

Slope (%):

Approval No.:

Soil type:

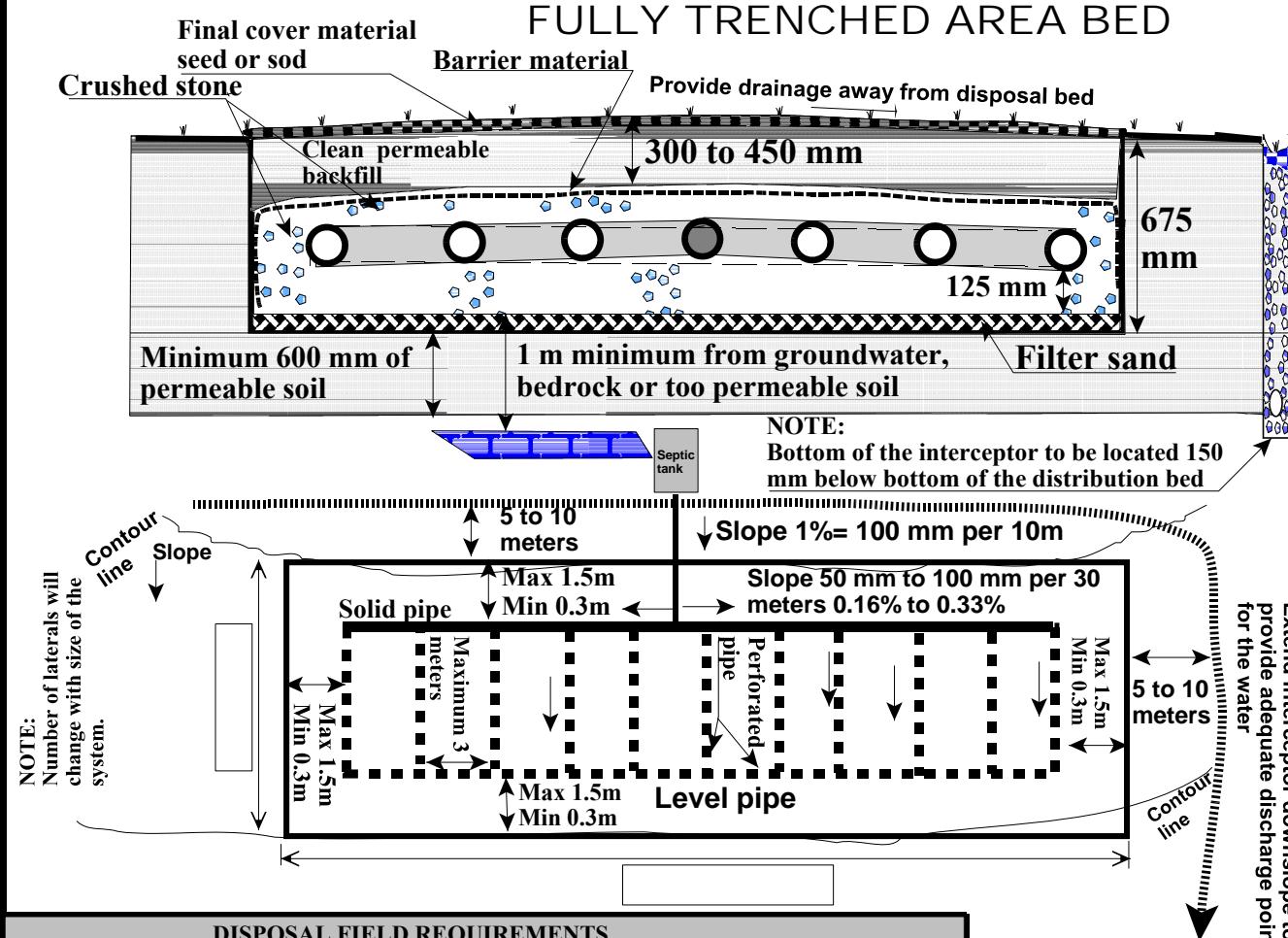
Location:

Soil depth (mm):

Qualified Person:

SCHEDULE C

FULLY TRENCHED AREA BED



DISPOSAL FIELD REQUIREMENTS

100	mm	Final cover material, seed or sod
200 to 350	mm	Clean local permeable backfill
Required over crushed rock	mm	Barrier material
75	mm	Crushed rock above pipe
	mm	Perforated pipe diameter
	m	Disposal bed length across slope
125	mm	Crushed rock below pipe
75	mm	Filter sand Permeability m/s: Minutes at 20°C
	m	Interceptor/Swale depth Liner Yes No
	m	Disposal bed width
	m ²	Disposal bed area

General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system unless system is designed by a professional engineer.

Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

It is the applicants responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines, and conditions of the Approval.

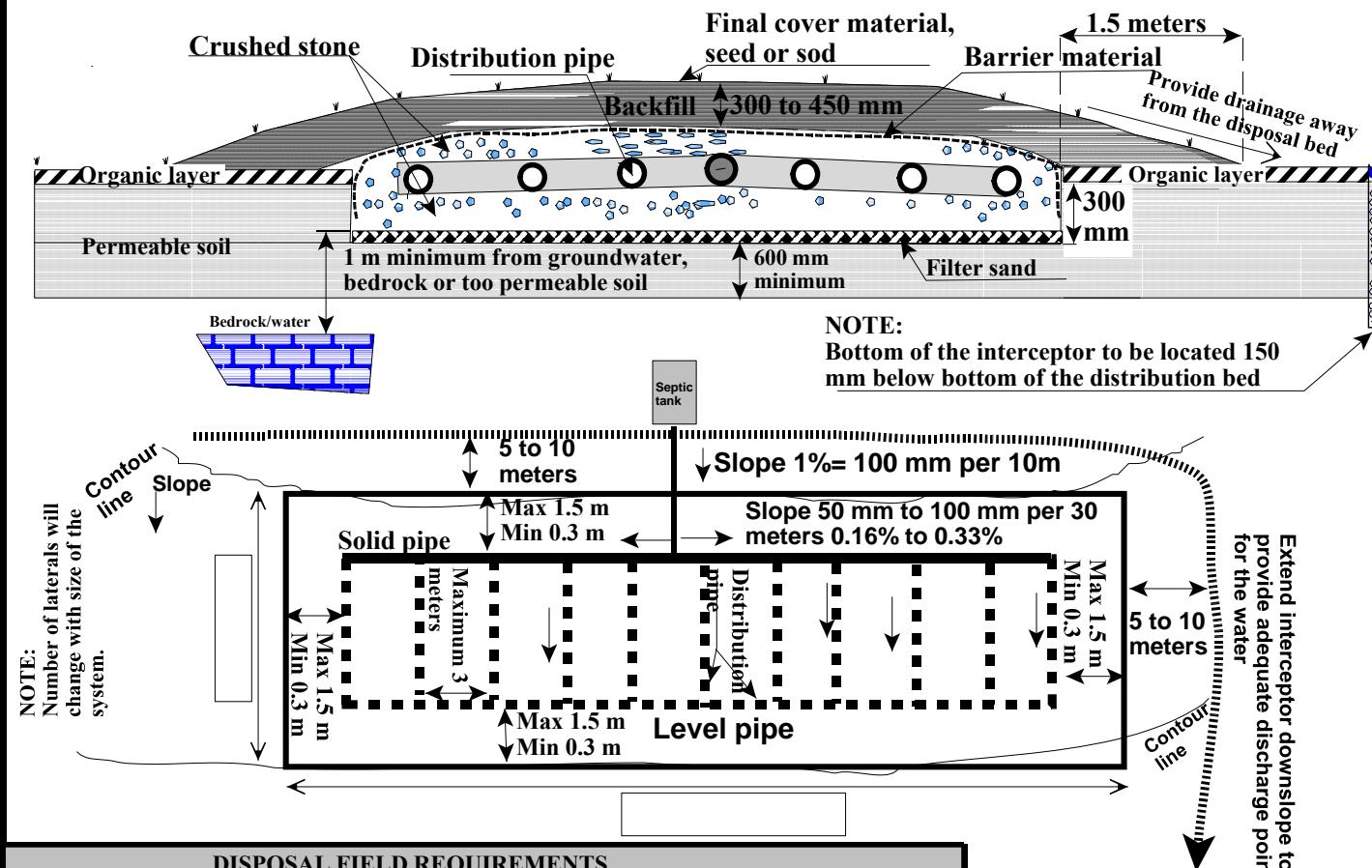
Selection Criteria:

NOT TO SCALE

Flow (l/d):	Applicant:
Slope (%):	Approval No.:
Soil type:	Location:
Soil depth (mm):	Qualified Person:

SCHEDULE C

PARTIALLY TRENCHED AREA BED



DISPOSAL FIELD REQUIREMENTS

100	mm	Final cover material, seed or sod
200 to 350	mm	Clean local permeable backfill
Required over crushed rock		Barrier material
75	mm	Crushed rock above pipe
	mm	Distribution pipe diameter
	m	Disposal bed length across slope
125	mm	Crushed rock below pipe
75	mm	Filter sand Permeability m/s: Minutes at 20°C
	m	Interceptor/Swale depth Liner Yes No
	m	Disposal bed width
	m ²	Disposal bed area

General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system unless the system is designed by a professional engineer.

Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

It is the applicants responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines, and conditions of the Approval.

Selection Criteria:

NOT TO SCALE

Flow (l/d):

Applicant:

Slope (%):

Approval No.:

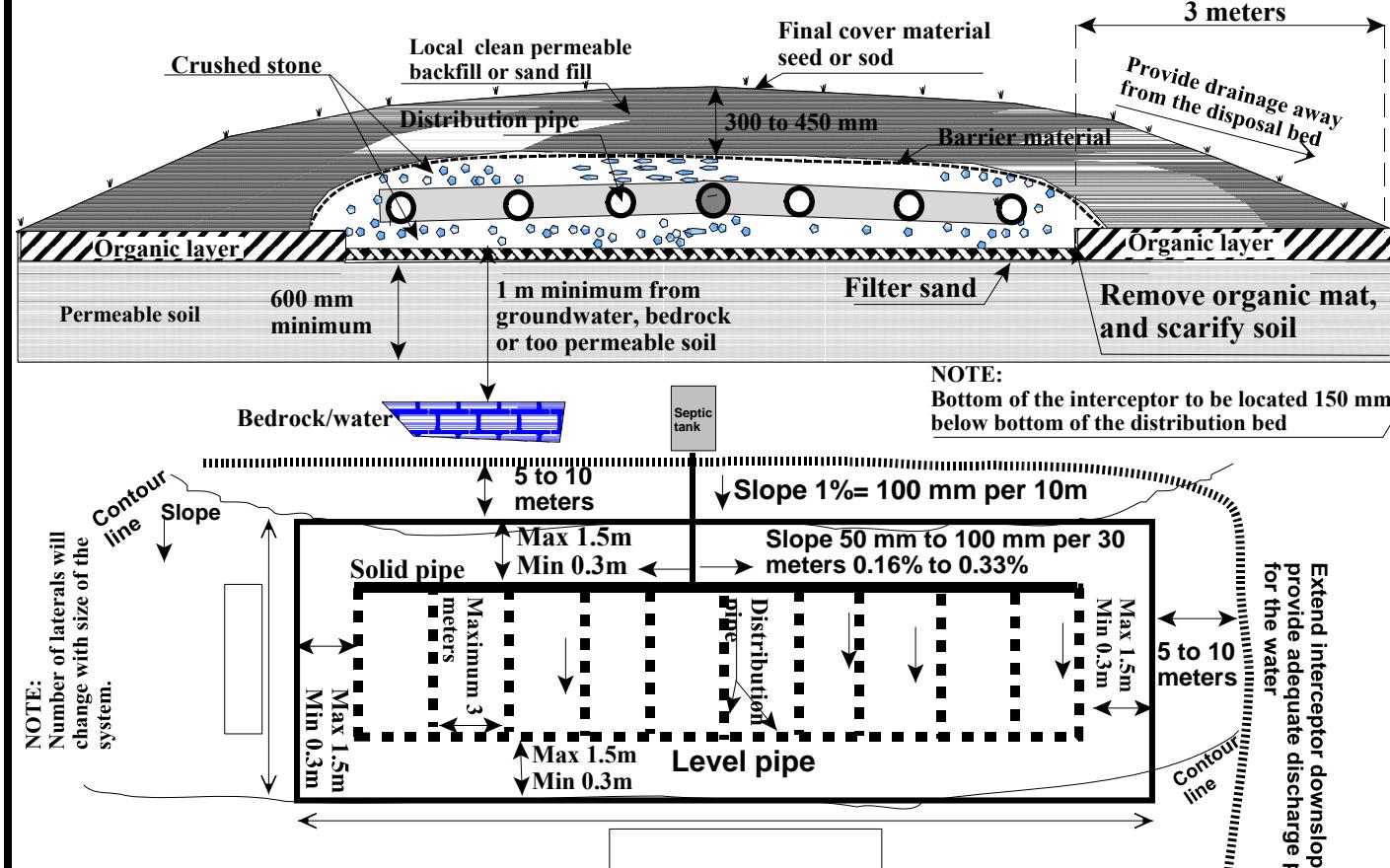
Soil type:

Location:

Soil depth (mm):

Qualified Person:

SCHEDULE C AT GRADE AREA BED



DISPOSAL FIELD REQUIREMENTS		
100	mm	Final cover material, seed or sod
200 to 350	mm	Clean local permeable backfill
Required over crushed rock		Barrier material
75	mm	Crushed rock above pipe
	mm	Distribution pipe diameter
	m	Disposal bed length across slope
125	mm	Crushed rock below pipe
75	mm	Filter sand Permeability m/s: Minutes at 20°C
	m	Interceptor/Swale depth Liner Yes No
	m	Disposal bed width
	m ²	Disposal bed area

Selection Criteria:

Flow (l/d):

Slope (%):

Soil type:

Soil depth (mm):

NOT TO SCALE

Applicant:

Approval No.:

Location:

Qualified Person:

General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system unless the system is designed by a professional engineer

Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

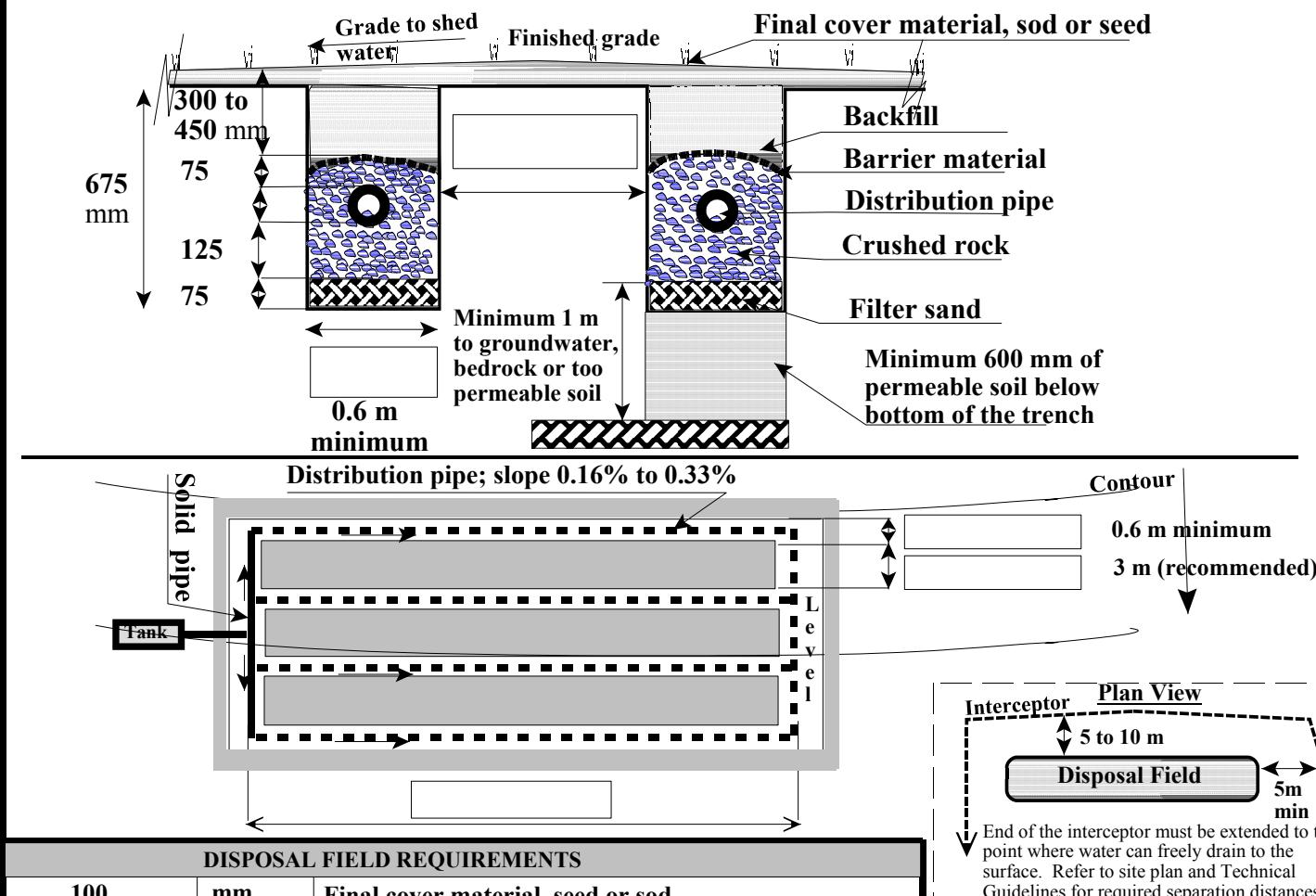
Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

It is the applicants responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines, and conditions of the Approval.

SCHEDULE C FULLY TRENCHED MULTIPLE TRENCH



General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system unless the system is designed by a professional engineer.

Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

It is the applicants responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

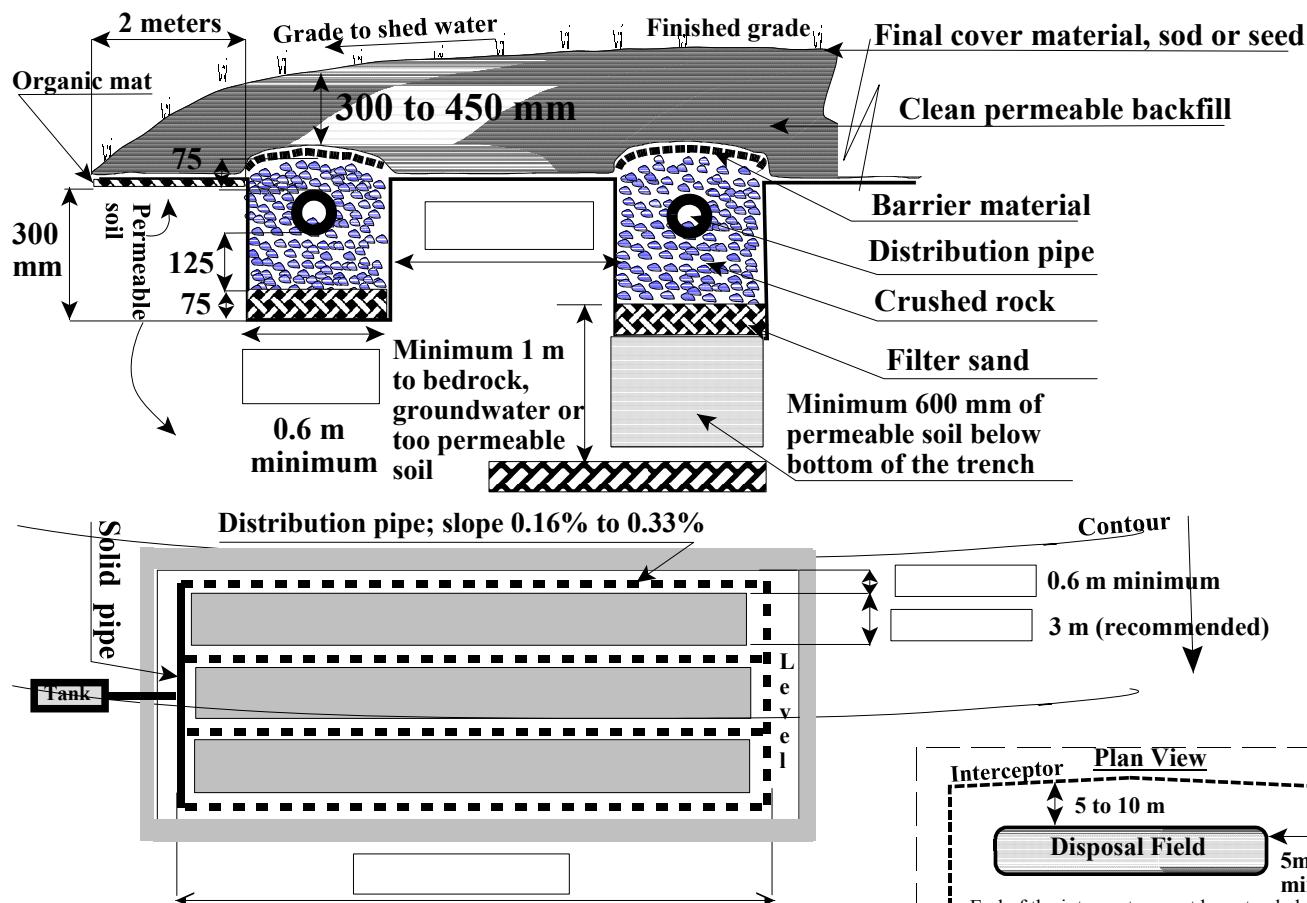
All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines, and conditions of the Approval.

Selection Criteria:

NOT TO SCALE

Flow (l/d):	Applicant:
Slope (%):	Approval No.:
Soil type:	Location:
Soil depth (mm):	Qualified Person:

SCHEDULE C SHALLOW MULTIPLE TRENCH



General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system unless the system is designed by a professional engineer.

Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

It is the applicant responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

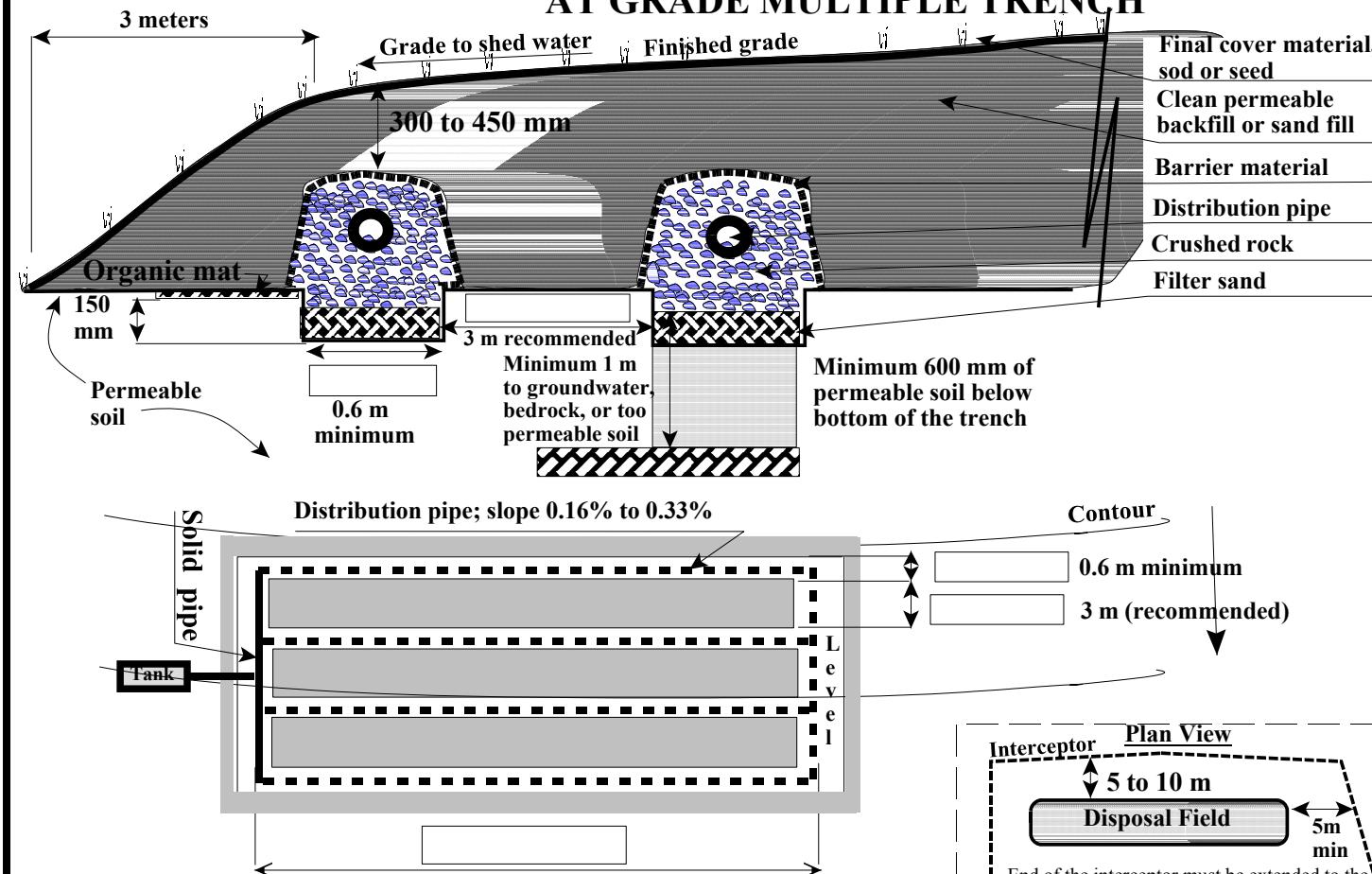
All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines, and conditions of the Approval.

Selection Criteria:

NOT TO SCALE

Flow (l/d):		Applicant:
Slope (%):		Approval No.:
Soil type:		Location:
Soil depth (mm):		Qualified Person:

SCHEDULE C AT GRADE MULTIPLE TRENCH



DISPOSAL FIELD REQUIREMENTS

100	mm	Final cover material, seed or sod
200 to 350	mm	Clean local permeable backfill or imported sand fill
Required over crushed rock		Barrier material
75	mm	Crushed rock above pipe
	mm	Distribution pipe diameter
	m	Distribution pipe length across slope
125	mm	Crushed rock below pipe
75	mm	Filter sand Permeability m/s: Minutes at 20°C
	m	Interceptor/Swale depth Liner Yes No
		Number of trenches

General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system unless the system is designed by a professional engineer.

Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

It is the applicant responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines, and conditions of the Approval.

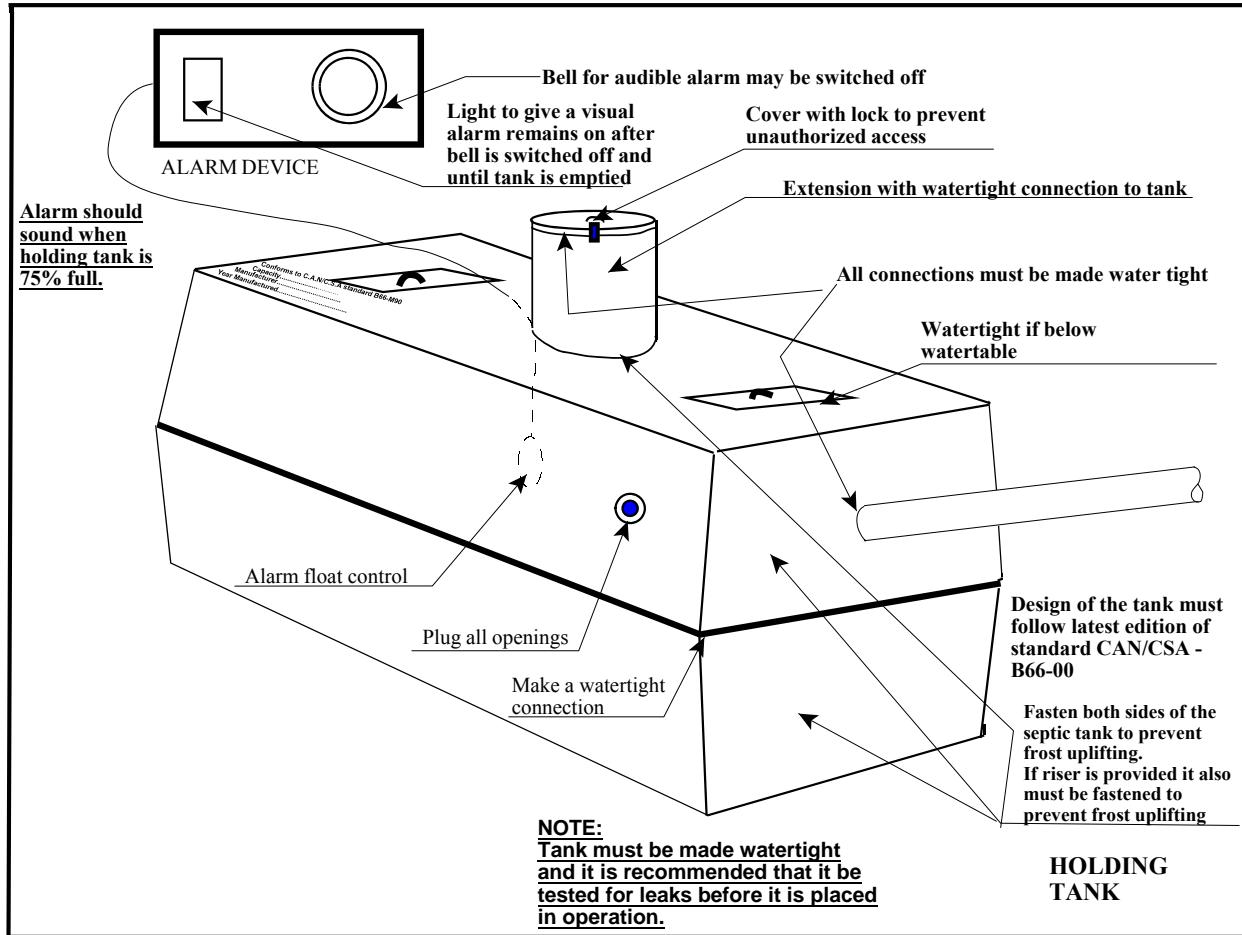
Selection Criteria:

NOT TO SCALE

Flow (l/d):		Applicant:
Slope (%):		Approval No.:
Soil type:		Location:
Soil depth (mm):		Qualified Person:

HOLDING TANK

No overflow is to be installed and any access ports shall be made water tight with gaskets and mechanical joint fasteners.



HOLDING TANK INSTALLATION

NOTE: This is general sketch only. For construction you must use details supplied by holding tank manufacturer that include:

1. Details of assembly such as back filling, ballast, tie downs and /or anchorage for different depths of final tank soil cover.
2. Details on the tank clean -out (extension, lock, protection against frost action).
3. Maximum and minimum depth of cover and any restrictions on traffic load.
4. Detailed excavation, bedding and backfilling requirements.

ATTACH REQUIRED INFORMATION TO APPLICATION FOR APPROVAL.

Liters/day	Design Daily Flow
Liters	Tank Volume (Minimum 4500 Liters)

Required	Alarm System
Required	Pumping Contract

Yes	No	Watertight Testing
-----	----	--------------------

The holding tank must be constructed such that the highest level in the tank does not exceed any horizontal joint, unless such joint is made water tight with gaskets and mechanical fasteners. See testing procedure in the On-Site Guidelines and latest edition of CAN/CSA-B66-00

mm	Depth of cover
----	----------------

General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system, unless the system is designed by a professional engineer.

Roof, foundation and lot drainage must be directed away from the holding tank.

Steps must be taken to ensure that the proposed holding tank location is not subject to vehicular traffic that can be harmful to the structural integrity of the holding tank. Easy access for septic tank pumper must be provided

It is the applicant responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines, and conditions of the Approval.

Pumping Contract (To be attached to application)

Telephone:

Fax:

Company:

Tank Cleaner:

NOT TO SCALE

Applicant:

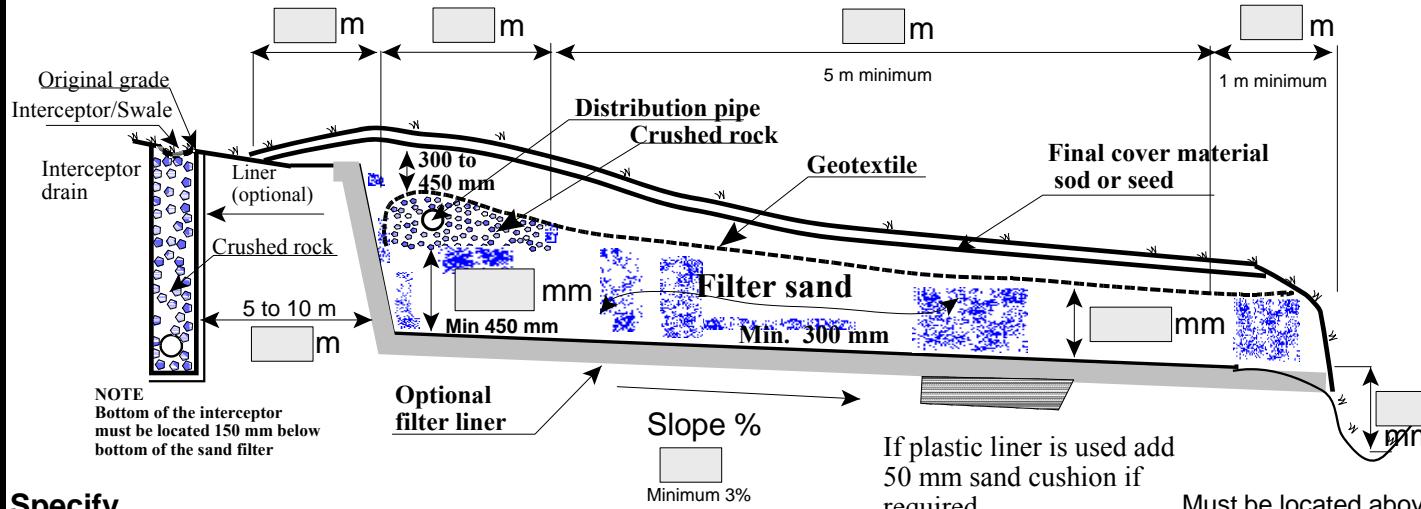
Approval No.:

Location:

Qualified Person:

SCHEDULE C

SLOPING SAND FILTER -MALFUNCTION REPLACEMENT ONLY



Specify

FILTER LINER IS NOT REQUIRED	<input type="checkbox"/>
FILTER LINER IS REQUIRED	<input type="checkbox"/>
FILTER LINER TYPE (Specify HDPE/PVC)	

Note:

Sand filter should be designed to maximize infiltration of treated effluent into the soil matrix.
Filter liner should only be used when regulatory separation distances to bedrock, groundwater or
too permeable soil cannot be met

LINER SPECIFICATIONS:

Provide 20 mils HDPE or PVC geomembrane liner. All joints must be properly welded and tested according to manufacturers recommendations, to provide a watertight connection.

DISPOSAL FIELD REQUIREMENTS		
100 Min	mm	Final cover material, seed or sod
200 to 350	mm	Clean local permeable backfill
Required over crushed rock and filter sand		Barrier material
75	mm	Crushed rock above pipe
	mm	Distribution pipe diameter
	m	Distribution pipe length
125	mm	Crushed rock below pipe
	mm	Filter sand Permeability m/s: _____ Minutes at 20°C _____
	m	Interceptor/Swale depth Liner Yes No
		Discharge location: _____

General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system, unless the system is designed by a professional engineer.

Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

It is the applicant responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

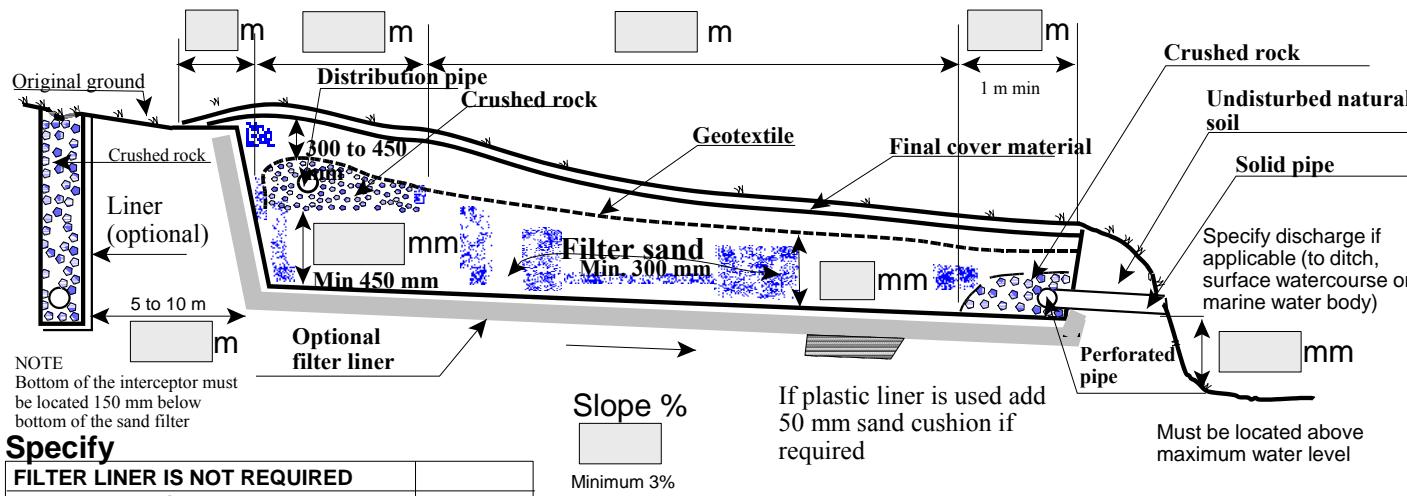
Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines and conditions of the Approval.

Selection Criteria:	NOT TO SCALE
Flow (l/d):	Applicant:
	Approval No.:
Soil type:	Location:
Soil depth (mm):	Qualified Person:

SCHEDULE C

SLOPING SAND FILTER (WITH DISCHARGE PIPE) MALFUNCTION REPLACEMENT ONLY



Note:
Sand filter should be designed to maximize infiltration of treated effluent into the soil matrix.
Filter liner should only be used when regulatory separation distances to bedrock, groundwater, or too permeable soil cannot be met

LINER SPECIFICATIONS:
Provide 20 mils HDPE or PVC geomembrane liner. All joints must be properly welded and tested according to manufacturers recommendations, to provide a watertight connection.

DISPOSAL FIELD REQUIREMENTS		
100 Min	mm	Final cover material, seed or sod
200 to 350	mm	Clean local permeable backfill
Required over crushed rock and filter sand		Barrier material
75	mm	Crushed rock above pipe
	mm	Distribution pipe diameter
	m	Distribution pipe length
125	mm	Crushed rock below pipe
	mm	Filter sand Permeability m/s:
	m	Interceptor/Swale depth
		Discharge location:

Selection Criteria:	NOT TO SCALE
Flow (l/d):	Applicant:
	Approval No.:
Soil type:	Location:
Soil depth (mm):	Qualified Person:

General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system, unless the system is designed by a professional engineer.

Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

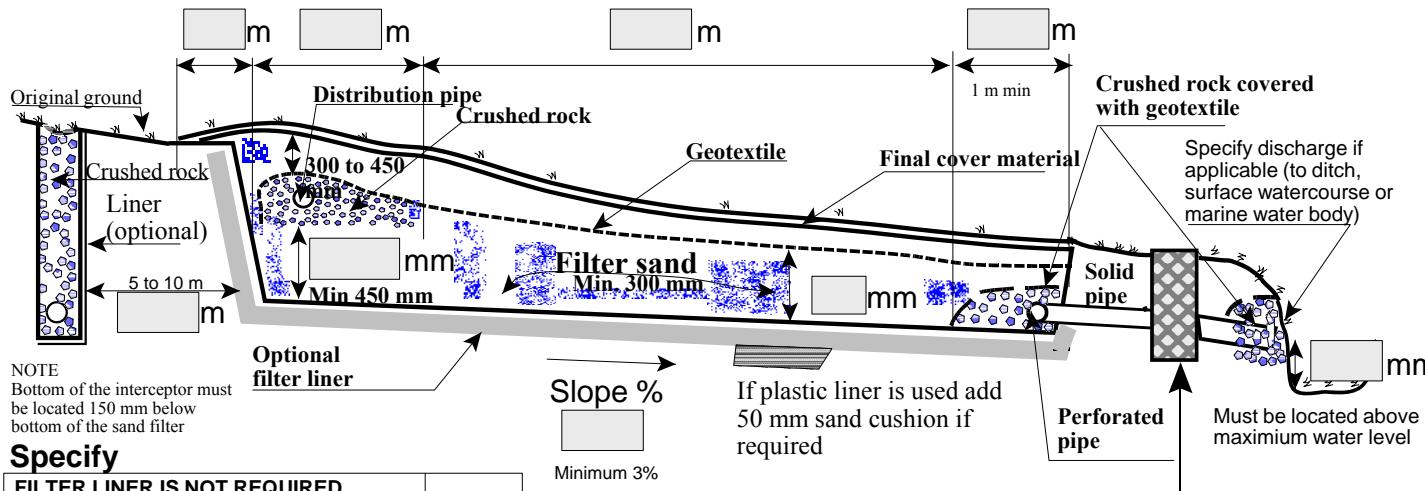
It is the applicant responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines and conditions of the Approval.

SCHEDULE C

SLOPING SAND FILTER (WITH DISINFECTION) MALFUNCTION REPLACEMENT ONLY



DISPOSAL FIELD REQUIREMENTS

100 Min	mm	Final cover material, seed or sod
200 to 350	mm	Clean local permeable backfill
Required over crushed rock and filter sand		Barrier material
75	mm	Crushed rock above pipe
	mm	Distribution pipe diameter
	m	Distribution pipe length
125	mm	Crushed rock below pipe
	mm	Filter sand Permeability m/s:
	m	Interceptor/Swale depth
		Discharge location:

General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system, unless system is designed by a professional engineer.

Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

It is the applicant responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

SPECIFY DISINFECTION TYPE

All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines, and conditions of the Approval.

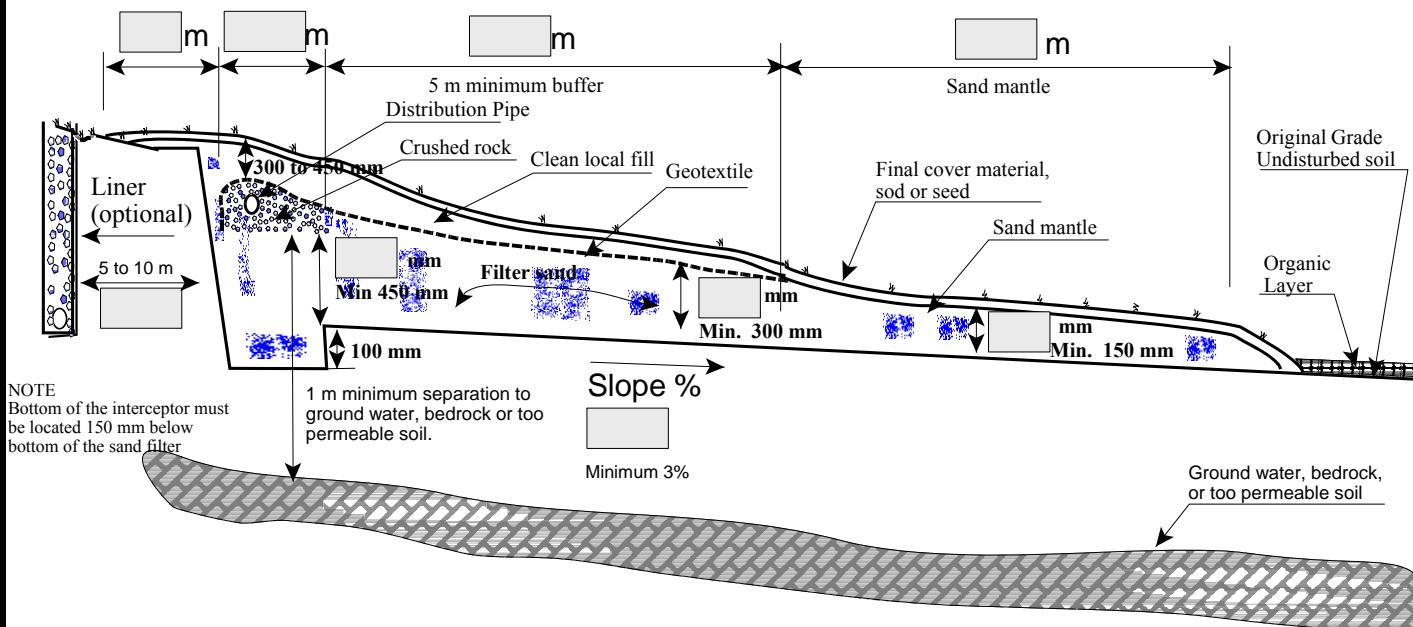
Selection Criteria:

NOT TO SCALE

Flow (l/d):		Applicant:
		Approval No.:
Soil type:		Location:
Soil depth (mm):		Qualified Person:

SCHEDULE C

SLOPING SAND FILTER (NO LINER)



Note:
Sand filter should be designed to maximize infiltration of treated effluent into the soil matrix.

General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system, unless system is designed by a professional engineer.

Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

It is the applicant responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

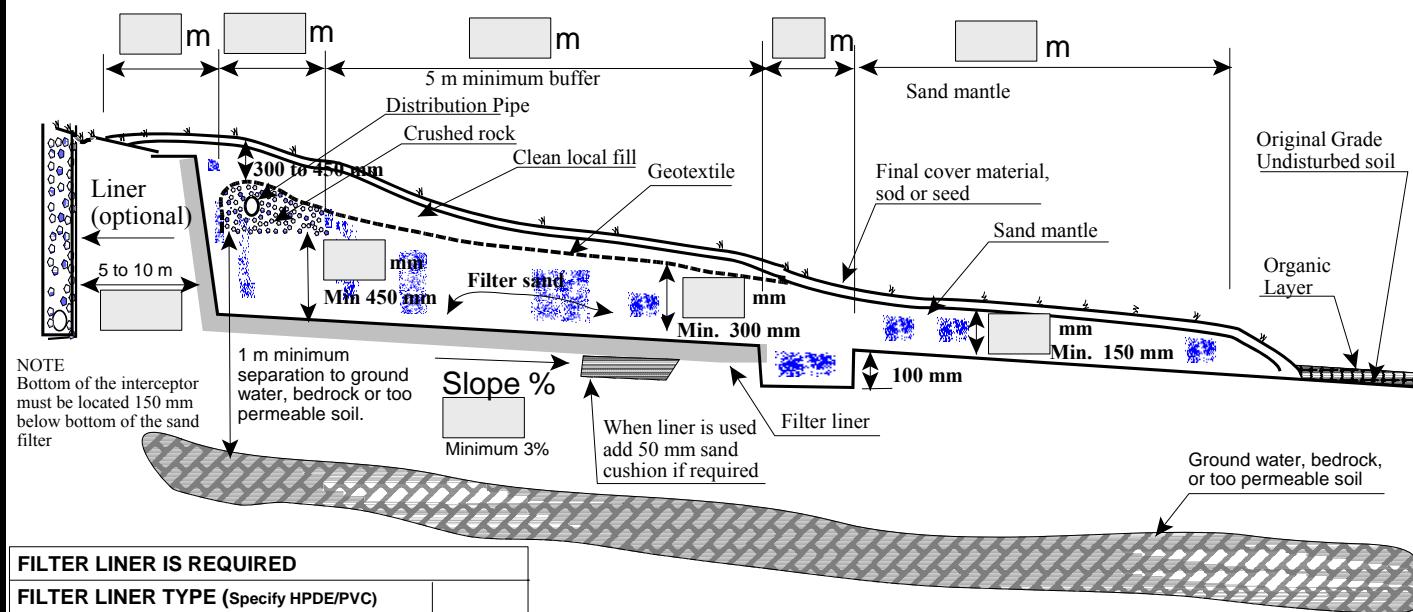
All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines, and conditions of the Approval.

DISPOSAL FIELD REQUIREMENTS		
100	Min mm	Final cover material, seed or sod
200 to 350	mm	Clean local permeable backfill
Required over crushed rock and filter sand		Barrier material
75	mm	Crushed rock above pipe
	mm	Distribution pipe diameter
	m	Distribution pipe length
125	mm	Crushed rock below pipe
	mm	Filter sand Permeability m/s:
	m	Interceptor/Swale depth
		Liner Yes No

Selection Criteria:	NOT TO SCALE	
Flow (l/d):		Applicant:
		Approval No.:
Soil type:		Location:
Soil depth (mm):		Qualified Person:

SCHEDULE C

SLOPING SAND FILTER (LINER)

**LINER SPECIFICATIONS:**

Provide 20 mils HDPE or PVC geomembrane liner. All joints must be properly welded and tested according to manufacturers recommendations, to provide a watertight connection.

Note:

Sand filter should be designed to maximize infiltration of treated effluent into the soil matrix. There must be a 1 m minimum separation to groundwater, bedrock or too permeable soil unless it is a malfunction replacement and the 1 m separation cannot be achieved.

DISPOSAL FIELD REQUIREMENTS

100	Min	mm	Final cover material, seed or sod
200	to	350	mm Clean local permeable backfill
Required over crushed rock and filter sand		Barrier material	
75		mm	Crushed rock above pipe
		mm	Distribution pipe diameter
		m	Distribution pipe length
125		mm	Crushed rock below pipe
		mm	Filter sand Permeability m/s:
		m	Interceptor/Swale depth
			Liner Yes No
			Sand Cushion Yes No

General Conditions

Contractor shall verify location of all wells, watercourses, lot boundaries and all elevations prior to construction (within 30.5 m from the location of disposal system)

Backwash water from water treatment devices must not be discharged to the on-site sewage disposal system, unless system is designed by a professional engineer.

Roof, foundation and lot drainage must be directed away from the disposal field, septic tank and pump (siphon) chamber.

Steps must be taken to ensure that the proposed disposal field area is not subject to vehicular traffic or any other disturbance such as excavation or stockpiling of excavated material etc., Installation of physical barrier is recommended.

It is the applicant responsibility to assure that the construction of foundations, driveway, well or any other development on the lot will not impact on the feasibility of on site sewage disposal field installation.

Disposal System must be installed by a contractor licensed to install on-site sewage disposal systems in Nova Scotia.

All work must be completed in accordance with the Nova Scotia On-Site Sewage Disposal Systems Regulations, On-Site Sewage Systems Technical Guidelines, and conditions of the Approval.

Selection Criteria:**NOT TO SCALE**

Flow (l/d):

Applicant:

Soil type:

Approval No.:

Soil depth (mm):

Location:**Qualified Person:**