

PENNINGTON COUNTY
ON-SITE WASTEWATER SYSTEM CONSTRUCTION PERMIT APPLICATION
 Pennington County Planning Department (605) 394-2186 www.co.pennington.sd.us

All portions on both sides of this form must be completed. A site plan must be submitted with this application that must reflect the location and design of the On-site Wastewater Treatment System. The site plan must also show the location of property lines, structures, percolation holes, and the profile hole. **No portion of the system may be buried until it has been inspected.**

Form has been completely filled out on both sides. Site plan shows all necessary items described above.

Owner/General Contractor _____ Daytime Phone () _____

complete address _____

Certified Installer _____ Daytime Phone () _____

complete address _____

Legal Description _____ Section _____ Twn _____ Range _____

Parcel size _____ acres Water Source: Well Public/community Cistern Well depth(if applicable) _____ ft.

System Information

- | | | |
|--|---|--|
| <input type="checkbox"/> Trench System | <input type="checkbox"/> 4" Perforated Pipe | Depth of clean rock under perforated pipe |
| <input type="checkbox"/> Bed System | <input type="checkbox"/> Infiltrator System (20% reduct.) | <input type="checkbox"/> 6" or more but less than 12" |
| <input type="checkbox"/> Mound System | <input type="checkbox"/> 10" Gravel-less pipe | <input type="checkbox"/> 12" or more but less than 18" (20% reduction) |
| <input type="checkbox"/> Other _____ | <input type="checkbox"/> Other _____ | <input type="checkbox"/> 18" or more but less than 24" (34% reduction) |
| | | <input type="checkbox"/> 24" or more (40% percent reduction) |

Bedrooms _____
 Garbage Disposal _____ (yes/no)
 Tank Size _____ gallons
 Percolation Rate _____ min/inch
 Depth to bedrock _____ ft.

Setbacks

Required drainfield size _____ sq.ft.	Wells, cisterns, reservoirs _____	Septic Tank _____	Absorption Area _____
Required drainfield size with reduction _____ sq.ft.	Lakes, streams, wetlands _____	Pressurized water lines _____	Dwelling, occupied bldg. _____
	Property lines _____		

Owner/General Contractor _____
Print name Signature Date

Certified Installer _____
Print name Signature Date

As a condition of receiving the permit(s), I hereby agree to perform all required work within the allowed time frame and in accordance with the applicable codes and ordinances in Pennington County and the State of South Dakota. I further acknowledge and authorize the Pennington County Planning Department staff and designees to enter onto and inspect the property described above for the purpose of confirming compliance with the conditions of any and all permit(s) issued. This authorization shall remain in effect and continue throughout the time frame allowed to complete the work including any granted extensions, and shall apply to the subject property regardless of ownership during said time frame.

The proposed site plan and sewage disposal specifications have been reviewed for the proposed system.
 The system _____ Does _____ Does Not _____ meet with the approval of the Planning Department.

Issue Date

Expiration Date

Environmental Planner

Expiration of Extension

Attach to Bldg Permit # _____

Septic Permit # _____

Percolation Test Information

	Test Hole #1		Test Hole #2		Test Hole #3	
Inch 1		Minutes		Minutes		Minutes
Inch 2		Minutes		Minutes		Minutes
Inch 3		Minutes		Minutes		Minutes
Inch 4		Minutes		Minutes		Minutes
Inch 5		Minutes		Minutes		Minutes
Inch 6		Minutes		Minutes		Minutes
Inch 7		Minutes		Minutes		Minutes
Inch 8		Minutes		Minutes		Minutes
Inch 9		Minutes		Minutes		Minutes
Inch 10		Minutes		Minutes		Minutes
Inch 11		Minutes		Minutes		Minutes
Inch 12		Minutes		Minutes		Minutes
Averages		Minutes/inch		Minutes/inch		Minutes/inch

Average of all three holes _____ Minutes/inch (Transfer this number to the front of this form)

Person completing percolation testing _____
Print Name
Signature

8-foot Soil Profile Information

Soil Type

1 foot	
2 foot	
3 foot	
4 foot	
5 foot	
6 foot	
7 foot	
8 foot	

Remarks:

Person completing soil profile information _____
Print Name
Signature

Inspection of an On-Site Wastewater System

- The installer must set-up an inspection time with the Environmental Planner during the normal duty day at least 24 hours prior to the inspection.
- The installer shall provide an as-built diagram at the time of inspection with the following information:

Requirements for As-Built Drawings

The As-Built Drawing will be a layout drawing of the property showing all property lines, structures, and the septic system. The As-Built Drawing shall also include all the following:

- Measured distances pertaining to all required setbacks (i.e. all wells within 150 feet, property lines, structures, etc)
 - North arrow
 - All streams, creeks, bodies of water and drainage on the property and their distances to the septic tank and drainfield
 - Depth of drainfield
 - The drainfield reserve area
 - Signature of the installer, certifying that the on-site wastewater disposal system was installed in accordance with all current regulations and guidelines.
- The as-built diagram may be a copy of the original site plan showing any changes made during the construction phase.
 - In addition, a finder wire, composed of Number 14, solid strand insulated copper wire, shall be installed for all new and upgraded wastewater disposal system installations. The finder wire shall be access at the clean out and run to and around the septic tank access hole and through the trenches or around the bed.

**SPECIFICATIONS VERIFIED THROUGH FIELD INSPECTION
OF INSTALLED SYSTEM**

DATE OF INSPECTION _____

Number of Finished Bedrooms: _____

Septic Tank Liquid Capacity: _____

Distance from Building to Septic Tank: _____

Square Feet Drainfield: _____

System Description: _____

DISTANCE FROM:

Property Lines: _____ Surface Water: _____

Ground Water: _____ Bedrock: _____

Well: _____ Dwelling: _____

Cistern: _____ Other: _____

INSTALLED ON-SITE SEWAGE DISPOSAL SYSTEM HAS BEEN REVIEWED ON
THIS _____ DAY OF _____,
20____. THE SYSTEM _____ DOES _____ DOES NOT MEET
WITH THE APPROVAL OF THE PLANNING DEPARTMENT.

Environmental Planner

Date: _____; RT/OT Hours _____

Date: _____; RT/OT Hours _____

Date: _____; RT/OT Hours _____

Totals RT X \$100.00 = _____

OT X \$250.00 = _____

Total Billing: \$ _____

PENNINGTON COUNTY PLANNING DEPARTMENT
MINIMUM DESIGN REQUIREMENTS FOR HOME WASTE
DISPOSAL SYSTEMS

1. **DESIGN:** In accordance with Administrative Rules of South Dakota, Article 74:03, Individual and small on-site wastewater systems.

Three (3) percolation tests must be done on all lots.

A soil profile hole to a depth of 4 feet beneath the bottom of the proposed system will be done to determine the presence of groundwater or bedrock.

2. **LOCATION:** DRAINFIELD must be installed so as to meet the following general guidelines: (This is not a complete list.)

Stay 10 feet inside property lines.

Stay 20 feet from buildings.

Stay 100 feet from surface water (high water line).

Stay 150 feet from a well with the top of the aquifer less than 100 feet deep.

Stay 100 feet from a well with the top of the aquifer more than 100 feet deep.

Keep at least 4 feet of soil separation between bottom of system and groundwater, including seasonal highs.

Keep at least 4 feet of soil separation between system and rock formations.

Stay out of areas subject to flooding.

3. **INSTALLATION:** To be done under the supervision of a certified installer.

DO NOT BACKFILL UNTIL INSPECTED BY THE
PENNINGTON COUNTY FIELD INSPECTOR

CONTACT
PENNINGTON COUNTY PLANNING DEPARTMENT
315 ST. JOSEPH STREET, RAPID CITY, SD 57701
(605) 394-2186

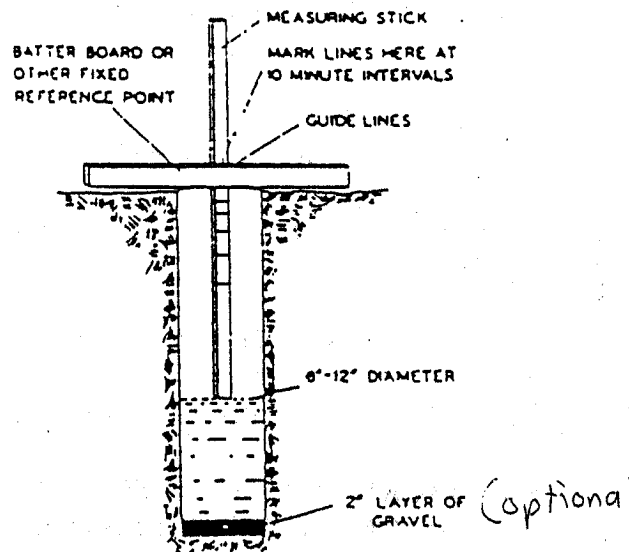
24 HOURS NOTICE IS REQUIRED FOR INSPECTION

Manner For Conducting Percolation Tests

A soil percolation test shall be made in at least 3 test holes within 5 feet of where the proposed absorption system or shallow wastewater system is to be located. The holes shall be randomly located in soil representative of and similar in character to the rest of the area where the system will be placed. An additional test hole shall be made to a depth of 4 feet beneath the bottom of the proposed absorption system, unless groundwater or bedrock is encountered first, to determine the type and depth of absorption system.

The horizontal diameter of the percolation hole shall be from 6 to 12 inches and the vertical sides shall extend to the maximum depth of the proposed absorption system or to a depth of at least 30 inches, whichever is greater.

Test holes shall be located in unfrozen soil and shall be filled at least 50 percent full with water for at least 8 hours but not more than 16 hours before making the soil percolation test. Immediately before making the test, each hole shall be refilled with water to at least 50 percent of its volume. When the water reaches the lower 25 percent of the test hole, the test shall begin. The percolation rate of a test hole shall be expressed in the number of minutes it takes the water level to drop 1 inch. The percolation rate for the area where the subsurface infiltration system is desired is the average percolation rate of all the test holes. The percolation tests shall be conducted for 2 hours unless the percolation rate is slower than 45 minutes per inch, in which case the percolation tests shall be run for at least 4 hours.



Soil percolation test.

General Subdivisions requiring additional septic requirements for submittal

Note: This is just a general guideline of subdivisions. There may be other subdivisions and/or individual properties that will also require additional septic information for submitting an application. Applicants should always check the plat of the property for any special notes prior to submitting any applications. If the property is within a Planned Unit Development the conditions of the Planned Unit Development should be checked for any special requirements

Ranch @ Black Gap

1. Percolation test for drainfield
2. Percolation test for reserve drainfield (reserve area must be shown on site plan)
3. Engineer designed septic systems
Percolation testing, soil info., and septic design must be stamped and signed by a Professional Engineer

Sheridan Lake Highlands

1. Percolation test for drainfield
2. Percolation test for reserve drainfield (reserve area must be shown on site plan)

Spring Creek Acres

1. Percolation test for drainfield
2. Percolation test for reserve drainfield (reserve area must be shown on site plan)
3. Engineer designed septic systems

Sunrise Ranch Estates

1. Percolation test for drainfield
2. Percolation test for reserve drainfield (reserve area must be shown on site plan)

Sunset Ranch

1. Percolation test for drainfield
2. Percolation test for reserve drainfield (reserve area must be shown on site plan)
3. Engineer designed septic systems