

DOCUMENTATION OF AN ON-SITE WASTEWATER DISPOSAL SYSTEM

GENERAL INFORMATION		AK Rim File No.5-00775
Legal Description of the Location: Lot 9, Block 3, Rainbow Heights		
Applicant Name: Roy Brown		Applicant is: <input checked="" type="checkbox"/> Owner/Builder <input type="checkbox"/> Excavator <input type="checkbox"/> Engineer <input type="checkbox"/> Bank
Mailing Address: PO Box 194		Type of Residence: <input checked="" type="checkbox"/> Single-Family <input type="checkbox"/> Multi-Family
City, State and Zip Code: Palmer, AK 99645		Total Number of Bedrooms: 4
		Telephone: 232-8155

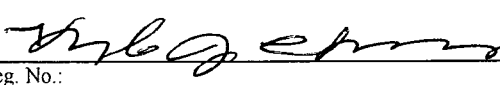
NEW SYSTEM

Name of Installer: Roy Brown		Date Installed: 7/7/05
<input checked="" type="checkbox"/> Owner / Builder: <input type="checkbox"/> Certified Installer No.: <input type="checkbox"/> Other:		Septic Tank Type / Manufacturer: steel - Greer
Septic Tank Size (Gallons): 1250	Number of Compartments: 2	Soil Type and Rating: SM (silty sand) 335 sf / bdrm
Type Soil Absorption System: deep trench	Dimensions / Size Soil Absorption System: 10'ED x 67' / 1340 sq. ft.	Type/Quantity Backfill Material Used for Soil Absorption System: 3/4" - 3" sewer rock / 100 cu. yds.
Percolation Test Results: (Attach Copy of Report) 30 minutes per inch (6/27/05)	Percolation Test by: (Name) perked by: Jake Peterson, Alaska Rim Engineering, Inc.	
Minimum Ground Cover over Absorption Area: 4 Feet	Minimum Ground Cover over Septic Tank: 4 Feet	Cleanout Pipes / Caps Installed on Septic Tank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Separation Distance To: n/a	Water Supply Source on Lot: n/a	Nearest Water Supply Source on Adjacent Lot: >100 Feet
		Nearest Body of Water: >100 Feet
		Water Table/Bedrock: >4' / >6'
		Lot Line: unknown
Comments / Recommendations: A cleanout is located <input type="checkbox"/> inside <input checked="" type="checkbox"/> outside of the foundation. This data represents the as-constructed condition of the improvements documented above. Based on periodic visual observations and information obtained from the installer, this data appears reasonable and represents that the project was constructed in general conformance with current 18 AAC 72 regulations and ADEC policies.		

EXISTING SYSTEM

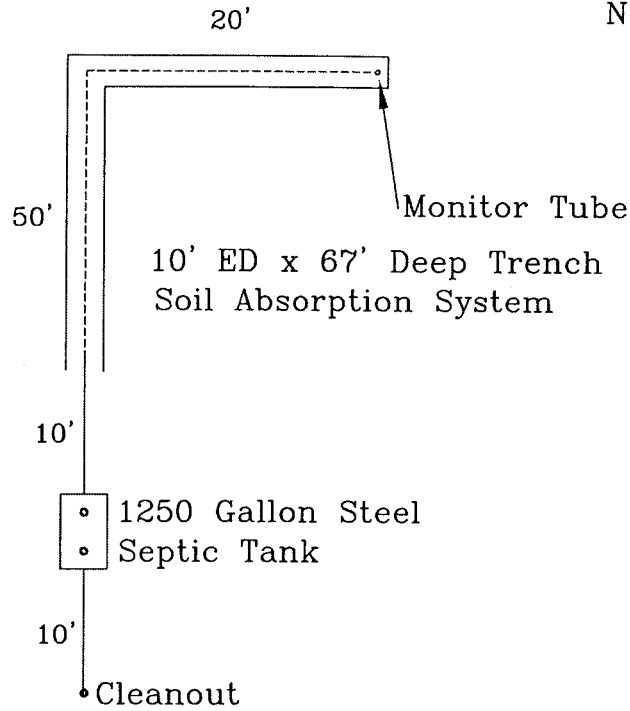
Name of Installer:		Date installed:
<input type="checkbox"/> Owner / Builder: <input type="checkbox"/> Certified Installer No.: <input type="checkbox"/> Other:		Septic Tank Type / Manufacturer:
Septic Tank Size (Gallons)	Number of Compartments:	Soil Type and Rating:
Type Soil Absorption System:	Dimensions / Size Soil Absorption System: / sq. ft.	Type/Quantity Backfill Material Used for Soil Absorption System: / cu. yds.
Adequacy Test Results: (Attach copy of Report) <input type="checkbox"/> Pass <input type="checkbox"/> Fail ()	Adequacy Test Performed By: (Name)	Date Septic Tank Pumped: (Attach Copy of Receipt) ()
Minimum Ground Cover over Absorption Area:	Minimum Ground Cover over Septic Tank:	Cleanout Pipes / Caps Installed on Septic Tank: <input type="checkbox"/> Yes <input type="checkbox"/> No
Separation Distance to:	Water Supply Source on Lot:	Nearest Water Supply Source on Adjacent Lot:
		Nearest Body of Water:
		Water Table/Bedrock:
		Lot Line:
Comments / Recommendations: A cleanout is located <input type="checkbox"/> inside <input type="checkbox"/> outside of the foundation. Data Legend (1) From site visit on (2) ADEC records (3) (4) (5)		

This documentation does not constitute a guarantee of any kind, explicit or implied, as to future performance of this wastewater disposal system. It does accurately portray the conditions found on the date it was tested and/or documented.

This information is correct to the best of my knowledge.	
Signature: 	Typed / Printed Name: KYLE J. CHERRY
Reg. No.: 26 216	Date: 7/12/05



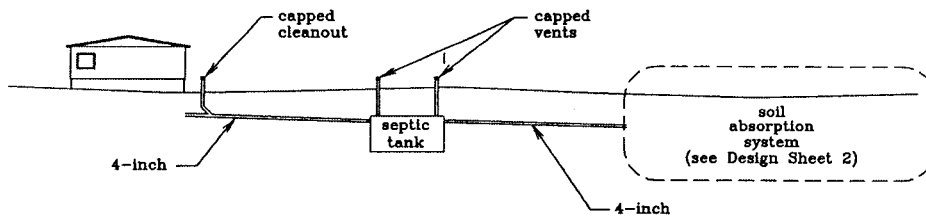
NO WELL ON SITE



Proposed
Single
Family
Dwelling

SEPTIC SYSTEM PLOT PLAN

All dimensions and locations are approximate



SEPTIC SYSTEM PROFILE

Conventional Single Family Residential SEPTIC SYSTEM AS BUILT Sheet 1 of 2

Legal Description: Lot 9, Block 3, Rainbow Heights

RECORD DRAWING

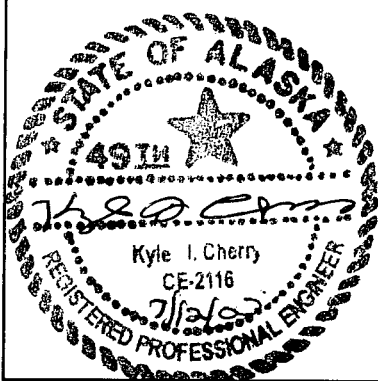
This record drawing represents the as-constructed condition of the improvements documented above. Based on periodic visual observation and information obtained from the installer, this data appears reasonable and represents that the project was constructed in general conformance with current 18 AAC 72 regulations and ADEC policies.

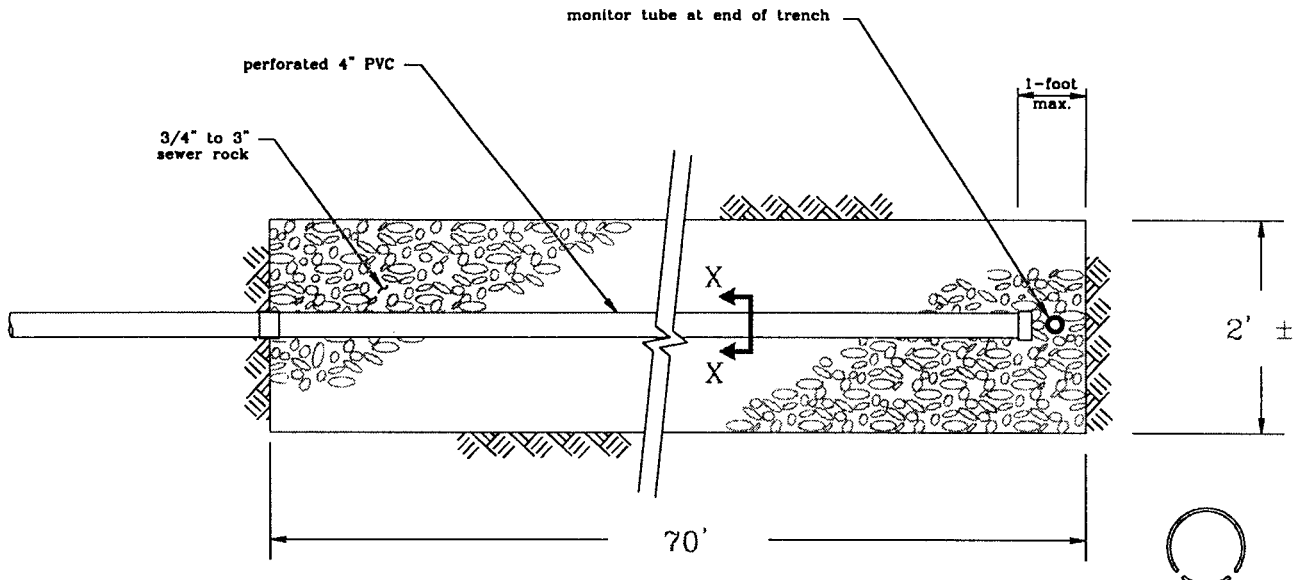
Alaska Rim Engineering, Inc.

Design Date 6/24/05

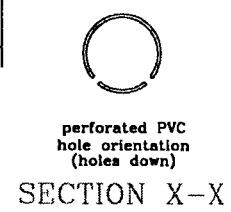
Completed Date 7/7/05

No Scale



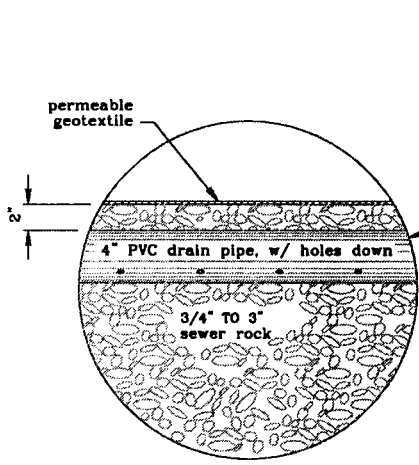


DEEP TRENCH
PLAN VIEW

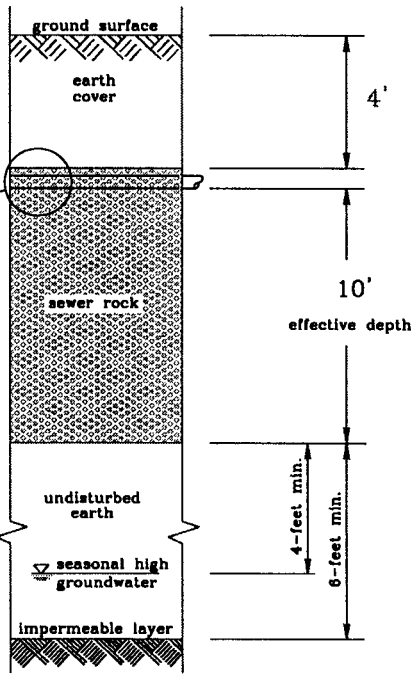


perforated PVC
hole orientation
(holes down)

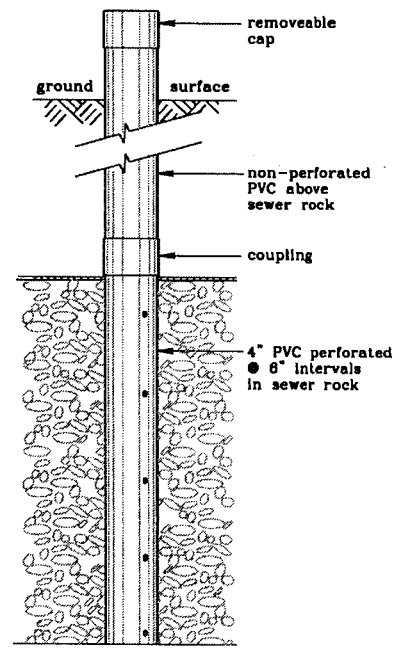
SECTION X-X



TRENCH DETAIL



TRENCH SECTION



MONITOR TUBE
DETAIL

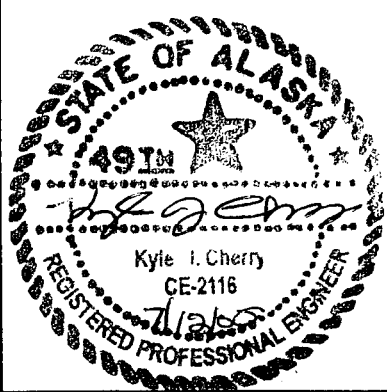
Conventional Single Family Residential Septic System As Built Sheet 2 of 2

Legal Description: Lot 9, Block 3, Rainbow Heights

RECORD DRAWING

This record drawing represents the as-constructed condition of the improvements documented above. Based on periodic visual observation and information obtained from the installer, this data appears reasonable and represents that the project was constructed in general conformance with current 18 AAC 72 regulations and ADEC policies.

Alaska Rim Engineering, Inc. Design Date 6/24/05 Completed Date 7/7/05 No Scale



SHT2_DTL.DWG REV 880917

SOIL LOG

Project: **Lot 9, Block 3, Rainbow Heights**

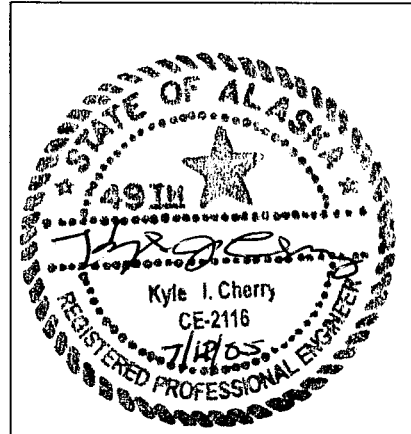
Date: **6/24/05**

Logged By: **Mike Schwochert**

TEST HOLE NO. 1

AK Rim File No. 05-00775

Depth (feet)	Description
1	Silt
2	Silty sandy gravel, occasional cobbles, grey, semi-dense, dry (SM)
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	Bottom of Test Hole
19	
20	
21	
22	
23	
24	



TEST HOLE LOCATION:
Within 25' of proposed SAS.

COMMENTS:
No water or bedrock layer were encountered.

This soil log was prepared for the sole purpose of determining the feasibility of constructing an onsite wastewater disposal system at the location of the test hole. Soil type ratings are based on visual observation and have not been verified with laboratory analyses. These soils have not been analyzed for structural properties, structural stability, and seismic stability or for any purpose other than wastewater absorption field construction. Anyone relying on the information in this log for any use other than wastewater absorption field development shall do so at his or her own risk.

PERCOLATION TEST

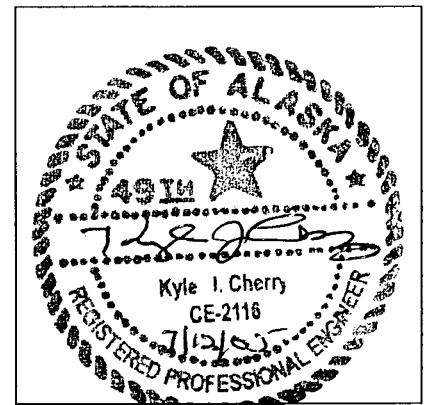
Project: Lot 9, Block 3, Rainbow Heights Estates	
Date: 6/27/05	Perc Hole Depth: 5 - Feet
Inspector: Jake Peterson	Start Soak: 8:31
AK Rim # 05-00775	End Soak: 12:31

TEST NO. 1

Time	Water Level (inches)	Time	Water Level (inches)	Net Time (minutes)	Net Drop (inches)	Perk Rate (min. / inch)
16:26	4"	16:56	5 5/16"	30	21/16"	
16:57	4"	17:27	5 3/16"	30	19/16"	
17:28	4"	17:58	5"	30	1"	30

ADEC SUGGESTED APPLICATION RATES		
Perk Rate	Application Rate	Comments
Faster than 1	Not Suitable	Requires sand liner or additional treatment.
1 - 5	1.2	
6 - 15	0.8	
16 - 30	0.6	
31 - 60	0.45	
61 - 120	Not Suitable	Requires engineering plans and ADEC plan approval.

COMMENTS:
 The application rate per ADEC 18 AAC 72 regulations Table C, 'WASTEWATER APPLICATION RATES FROM PERCOLATION TEST RESULTS' is 0.6 gal/day/sq. ft.



There are several methods of measuring soil percolation, technically called hydraulic conductivity. The soil percolation test method we performed was conducted in general conformance with the Falling Head Percolation Test Procedure from EPA's Design Manual for Onsite Wastewater Treatment and Disposal Systems dated October 1980. This method is the one most commonly used and can give an approximate measure of the soil's saturated hydraulic conductivity. However, normally the percolation of wastewater through the soil below the leach field occurs through unsaturated soils. The unsaturated hydraulic conductivity can vary greatly from the saturated hydraulic conductivity with changes in soil characteristics and moisture content. The results from this test method can be variable and may not measure the hydraulic conductivity accurately. These test results should only be used together with specific soil characteristic data and other site characteristics to design an appropriate soil absorption system.