

EL PASO COUNTY DEPARTMENT OF HEALTH AND ENVIRONMENT
INDIVIDUAL SEWAGE DISPOSAL SYSTEM INSPECTION FORM

Permit # 12708
Date 10-27-98

APPROVED: YES NO # 1410000008

ENVIRONMENTALIST Lori Doane

Address 33440 Highway 94 Owner Joseph D. Williams

Legal Description E2, W2 SE4 Sec 10-14-61 (North BOS)
Residence , # of bedrooms 4; Commercial ; System Installer Owner

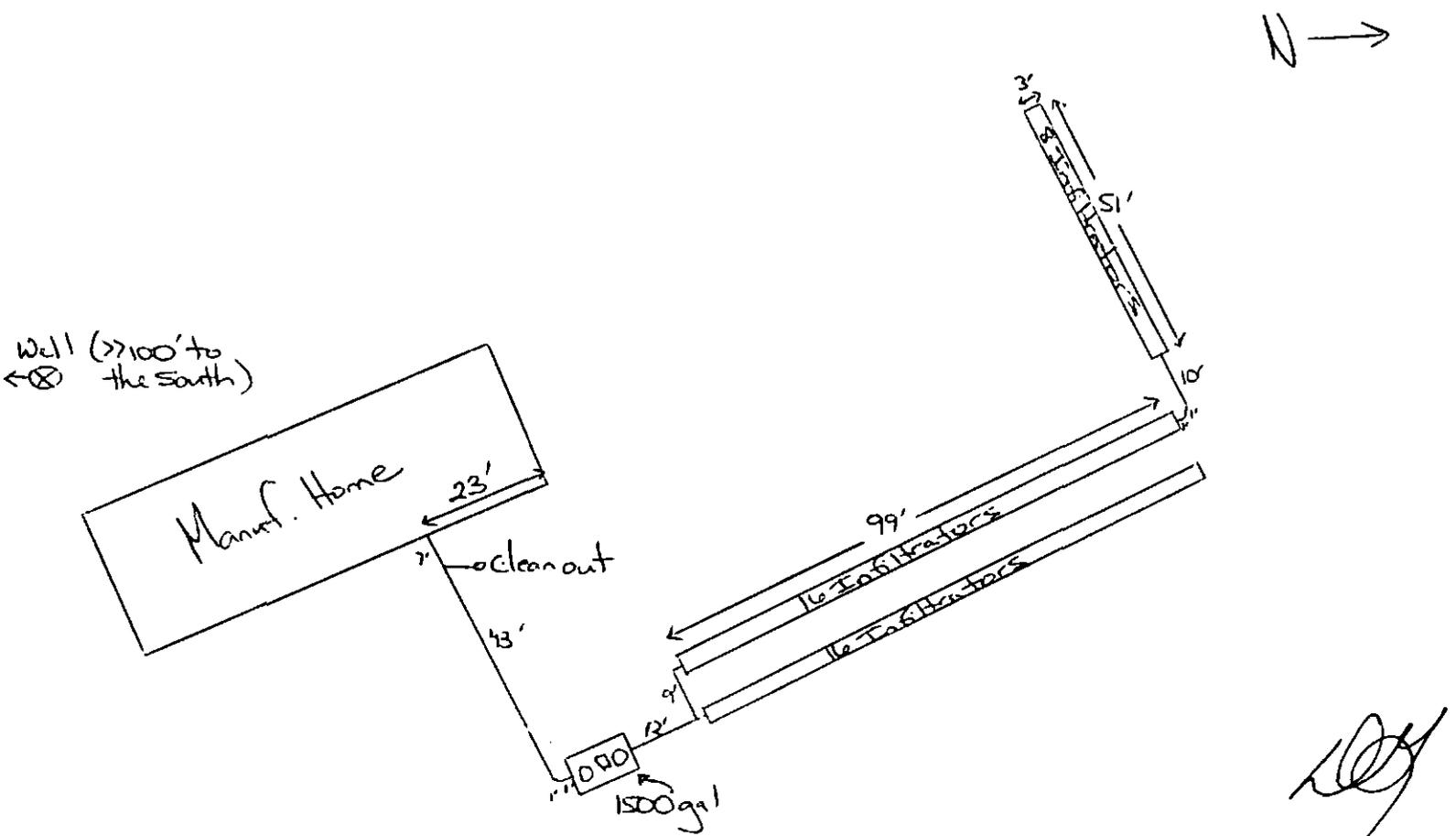
SEPTIC TANK:
Commercial ; Noncommercial
Construction Material Recast Concrete, L , W , WD
capacity 1500 gallons.

DISPOSAL FIELD:
Rock Systems:
Trench: depth , width , total length , sq. feet
Bed: depth , length , width , sq. feet
Rock type , depth , under PVC , over PVC
Seepage Pits: # of pits , total # of rings , working depth(s)
size of pit(s) L X W , lining material , total sq. feet

Rockless Systems:
Chamber: Type Infiltrator, number of chambers 40, bed , trench
sq. ft./section 155, reduction allowed 40%, sq. ft. required 976
total sq. ft. installed 1033, depth of installation 34"-40"

Engineer Design Y or N, Designing Engineer
Approval letter provided? Y or N
Well 50 feet from tank Y or N 100 feet from leach field Y or N
Well installed at time of septic system inspection Y or N Public Water
*Approval will be revoked if in the future the well is found to be within 50 feet of the septic tank and/or 100 feet of the disposal field.

NOTES:



Acres 40 EL PASO COUNTY • DEPARTMENT OF HEALTH AND ENVIRONMENT

301 South Union Blvd. • Colorado Springs, Colorado • 578-3125

Water Supply well

Permit 12708

PERMIT

TO CONSTRUCT, ALTER, REPAIR OR MODIFY ANY INDIVIDUAL SEWAGE DISPOSAL SYSTEM

Receipt No. 9/29/98

Issued to JOSEPH D. WILLIAMS

Date 9-29-98

Address of Property 33440 HIGHWAY 94, E2, W2, SE4, SEC: 10-14-61 (North ISD)

Phone 478-2028

(Permit valid at this address only)

Sewage-Disposal System work to be performed by _____ Phone _____

This Permit is issued in accordance with 25-10-106 Colorado Revised Statutes 1973, as amended. PERMIT EXPIRES upon completion installation of sewage-disposal system or at the end of twelve (12) months from date of issue—whichever occurs first—(unless work is in progress). This permit is revokable if all stated requirements are not met.

-THIS PERMIT DOES NOT DENOTE APPROVAL OF ZONING AND ACREAGE REQUIREMENTS-

\$245.00

PERMIT FEE (NOT REFUNDABLE)

Steven J Englander, MD
DIRECTOR, DEPARTMENT OF HEALTH AND ENVIRONMENT

Paul Lane 578-3136
ENVIRONMENTALIST

9-29-99

DATE OF EXPIRATION

NOTE: LEAVE ENTIRE SEWAGE DISPOSAL SYSTEM UNCOVERED FOR FINAL INSPECTION. 48 HOUR ADVANCE NOTICE REQUIRED.

SEPTIC TANK:	TRENCH SYSTEM:	BED SYSTEM:	SEEPAGE PIT SYSTEM:
1500	total square feet 976		total square feet _____
_____gallons	_____ ft. of trench _____ inches wide		
	_____ ft. of trench _____ inches wide	total square feet _____	_____ rings or _____ diam. x _____ w/d

NOTES: Install leach field in location and at depth (34 inches-36 inches) of perc. test. If chambers are used, must install a minimum of 38 chambers in trenches or 41 in a bed.

(Perc. test engineer recommends only a 35 per cent reduction for chambers, which would be 41 chambers in trenches or a bed.)

The Health Office shall assume no responsibility in case of failure or inadequacy of a sewage-disposal system, beyond consulting in good faith with the property owner or representative. Free access to the property shall be authorized at reasonable time for the purpose of making such inspections as are necessary to determine compliance with requirements of this law.

3rd dwelling

APPLICATION FOR A NEW REMODEL, REPAIR, OR ADDITION (H)
TO AN INDIVIDUAL SEWAGE DISPOSAL SYSTEM

Karen 574-5263

Owner Joseph D. Williams Phone 719 478 2028

Address of Property 33440 Hy 94 Lot Size 40 AC Water Supply WELL

Tax Sch # 140000238 Septic Contractor & Phone # 719 574 5263

Legal Description E 1/2 OF W 1/2 SE COR SEC 10 TOW 14 RANGE 61

Type of Building MODULAR HO-772 Owner's Mailing Address 603 BAIDGER DR CSP 80909

MAXIMUM POTENTIAL BEDROOMS 4

Basement (N) Percolation Test Attached (Y) N Garbage Disposal (Y) N Clothes Washer (Y) N

I have supplied a plot plan as described on the back of this form. I acknowledge the completeness of the application is conditional upon such further mandatory and additional tests and reports as may be required by the Department to be made and furnished by a applicant for purposes of evaluating the application, and issuance of the permit is subject to such terms and conditions as deemed necessary to ensure compliance with rules and regulations adopted pursuant to C.R.S. 10-25-101 et. seq. I hereby certify all represented to be true and correct to the best of my knowledge and belief, and are designed to be relied on by the El Paso County Department of Health and Environment in evaluating the same for purposes of issuing the permit applied for herein. I further understand any falsification or misrepresentation may result in the denial of the application or revocation of any permit granted based upon said application and in legal action for perjury as provided by law.

OWNER'S SIGNATURE Joseph D. Williams Date 9-3-98

DEPARTMENT OF HEALTH USE ONLY

Absorption Area 976 Tank Capacity 1500 gal. Date of Site Inspection 9-8-98

REMARKS: Install leach field in location and at depth (34"-36") of perc. test. If chambers are used, must install a minimum of 38 chambers in trenches or 41 in a bed. (perc. test engineer recommends only a 35% reduction for chambers, which would be 41 chambers in trenches or a bed.)

~~Approved pending review of comments from County Planning Dept. Field plan OK.~~

EHS INSPECTOR [Signature] Date 9-8-98 APPROVED DENIED

PERMIT # 12708 FEE NO FEE DATE TO EPC PLANNING DEPT 9-4-98
attached OK

We require the ORIGINAL of your percolation (PERC) TEST.
The following information must be on your PLOT PLAN.

Property lines
Proposed septic system site
Well(s)
Building(s)
Water line
Subsoil drain(s)

Property dimensions
Designated alternate septic system site
Adjacent property well(s)
Proposed building(s)
Cistern

If any of these are within 100 feet of your proposed septic system
include on your plot plan

Spring(s)
Pond(s)
Dry Gulch(s)

Lake(s)
Stream(s)
Natural drainage course(s)

PROPERTY AND PERC HOLES MUST BE CLEARLY MARKED OR POSTED

GIVE COMPLETE DIRECTIONS TO THE PROPERTY FROM A MAIN HIGHWAY

33440 HY 94

1/2 MILE EAST OF YOWER ON NORTH SIDE
OF HIGHWAY

33440 Hwy 94
1410000008
E
10-27-98

August 31, 1998

Project 980813

Joe Williams
33440 Hwy. 94
Yoder, CO

Re: Percolation Test - Proposed Residence
33440 Hwy. 94
Yoder, Colorado

Dear Mr. Williams:

As requested, personnel of Hildenbrandt & Associates, Inc. have performed percolation testing for an on-site disposal system at the above referenced site. This letter presents the results of our testing.

The percolation test was performed on August 26 & 27, 1998. The location of the percolation holes are shown in Figure 1. Soils encountered in the profile hole consisted of silty sands with some clay binder. Bedrock or groundwater were not encountered in either the percolation holes or the profile hole. The profile hole was excavated to an 8-foot depth.

The ground in the area of the proposed absorption system slopes gently to the west.

The average percolation rate was determined to be 15 minutes per inch. Percolation results are shown in Figure 2. Based on a percolation rate of 15 minutes per inch, the absorption field should be 174 square feet per bedroom. The calculated size shall increase by 20% if wastes from a garbage disposal are discharged into the system and shall increase by 40% if wastes from an automatic washing machine are discharged into the system. The absorption field should be sized based on the number of bedrooms and anticipated usage.

A reduction in absorption area for use of a chambered system is not recommended unless the calculated area is increased 60% for a garbage disposal and washing machine, in which case a 35% reduction for use of a chambered system may be taken. One chamber shall be considered to have 15½ square feet of absorption area. If a chambered system is proposed, the system shall have no less than 19 chambers.

Williams
Percolation Test - Residence
33440 Hwy. 94

Project 980813
Page 2

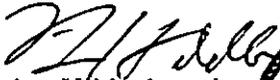
Where possible, gravity flow should be used to transfer liquid wastes from the septic tank to the absorption area. A pump and pumping chamber may otherwise be installed.

The septic tank and absorption system should be installed in accordance with El Paso County Health Department regulations.

We trust this report has provided you with the information you required. If you have any questions or need additional information, please do not hesitate to contact us.

Respectfully submitted,

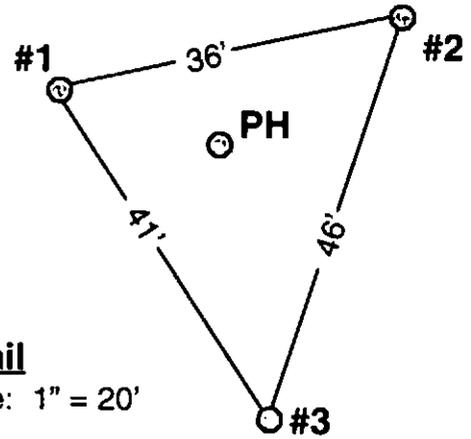
HILDENBRANDT & ASSOCIATES, INC.


Brian Hildenbrandt,

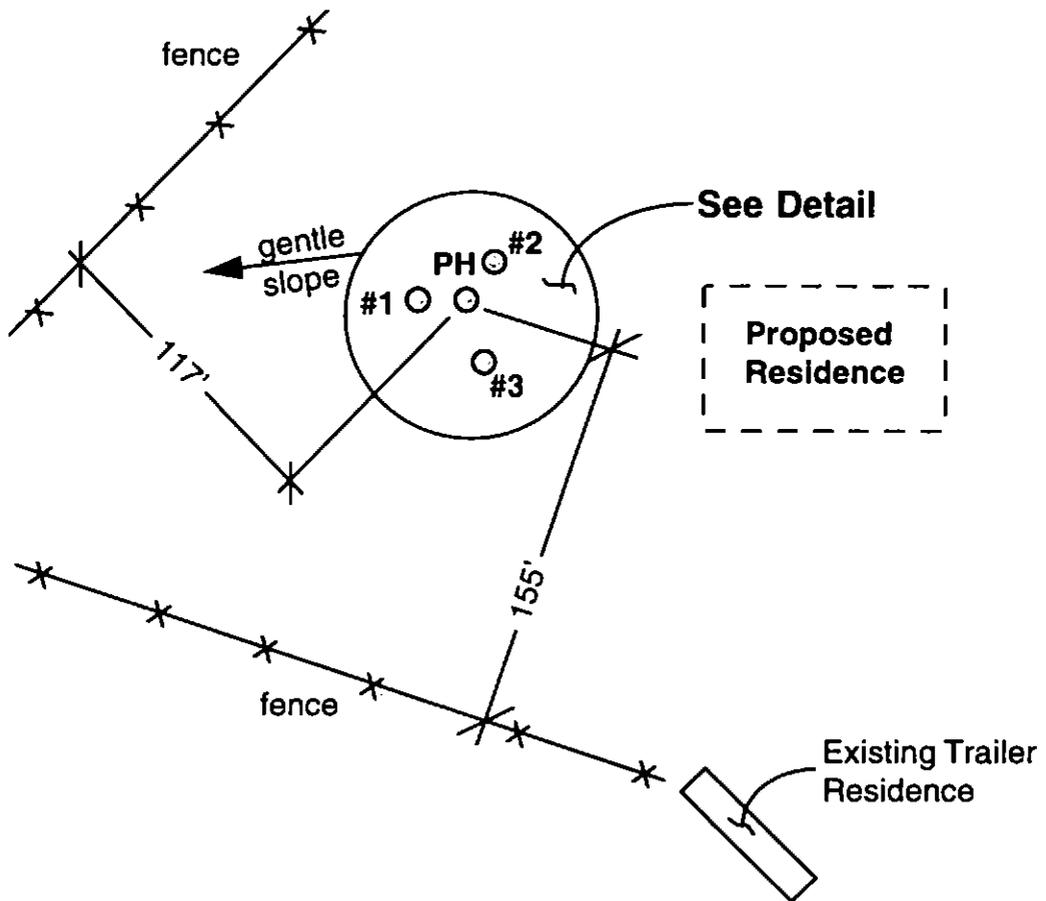
P.E. #29623



N
Not to Scale



Detail
Scale: 1" = 20'



Hwy. 94

HILDENBRANDT & ASSOCIATES, INC.
5376 Tomah Drive #201, Colorado Springs, CO 80918

LOCATION PLAN

Project 980813

Figure 1

Client Joe Williams

Date: 8/31/98

Test Location: 33440 Hwy. 94
Yoder

Date Test Performed: 8/27/98
Observer: B. Hildenbrandt

PERCOLATION TEST DATA

Hole No. 1

Trial	Time (min.)	Water Level Change (In.)
1	10	1.00
2	10	0.81
3	10	0.63

Hole No. 2

Trial	Time (min.)	Water Level Change (In.)
1	10	0.38
2	10	0.50
3	10	0.63

Hole No. 3

Trial	Time (min.)	Water Level Change (In.)
1	10	1.13
2	10	0.56
3	10	0.63

Depth of Hole: 35"
Perc Rate
min./In.: 12

Depth of Hole: 34"
Perc Rate
min./In.: 20

Depth of Hole: 36"
Perc Rate
min./In.: 13

Average Perc Rate (min./In.): 15

PROFILE HOLE

Date Excavated: 8/26/98 Method: Drilled with a 4" hand auger.

Depth	Description
0' - 2'	Silty sand, rust to orange-brown, damp, dense, contains some clay binder.
2' - 4'	Silty sand, medium to light brown, moist, dense, slight clay binder.
4' - 8'	Silty sand, dense to very dense.

at 3', 160 blows for 12"
at 7', 200 blows for 12"

Total Depth = 8'
No Caving, No Water Encountered

BLOW COUNTS OBTAINED BY DRIVING A CALIFORNIA SAMPLER WITH A 36 LB. WEIGHT DROPPED 12 INCHES. TYPICAL RELATIVE DENSITIES FOR BLOWS REQUIRED TO DRIVE THE SAMPLER 12" ARE AS OUTLINED BELOW:

0-15	VERY LOOSE
15-45	LOOSE
45-120	MEDIUM DENSE
120-200	DENSE
200+	VERY DENSE

Required Area of Absorption Field: 0.775
Required Area of Absorption Field: 174 Sq. Ft./bedroom

HILDENBRANDT & ASSOCIATES, INC.

5376 Tomah Drive #201 Colorado Springs, CO 80918

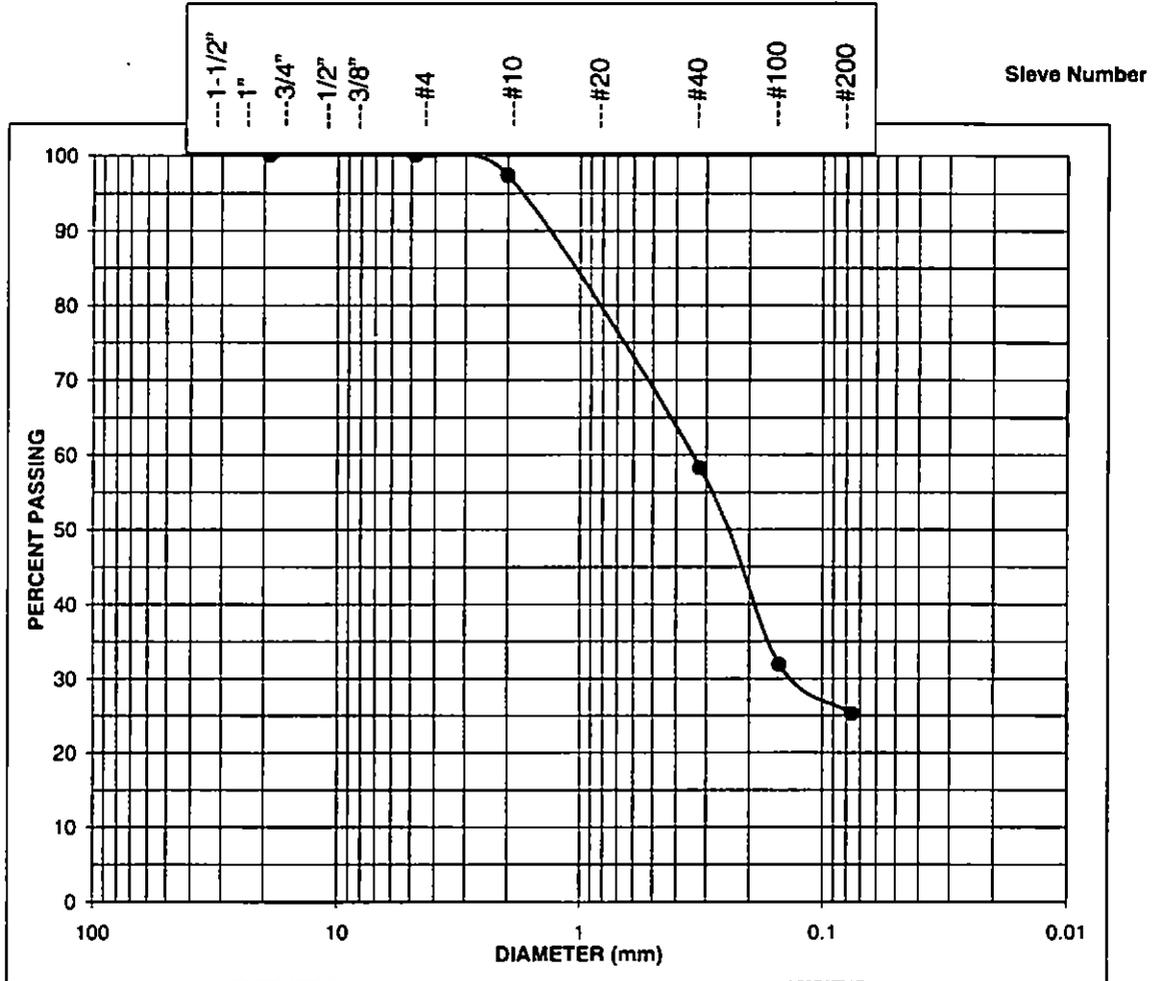
Percolation Test Results

Project 980813

Figure 2

Profile Hole PH Depth 3'

Project Location 33440 Hwy. 94
Yoder



Sieve Size	% Passing	Unified Classification:	SM
3/4"	100		
#4	100		
#10	97		
#40	58		
#100	32		
#200	25		

HILDENBRANDT & ASSOCIATES, INC.

5376 Tomah Drive #201 Colorado Springs, CO 80918

GRAIN SIZE ANALYSIS

Project 980813 Figure 3