

APPLICATION

PERCOLATION TESTING

A 519072

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

DISTRICT _____

DATE _____

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER _____

ADDRESS _____ PHONE _____

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. _____

ROAD AND DESCRIPTION 1380 Princes Rd

TAX MAP _____ PARCEL # _____

SIZE OF LOT _____ TYPE BLDG. _____
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT.

(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

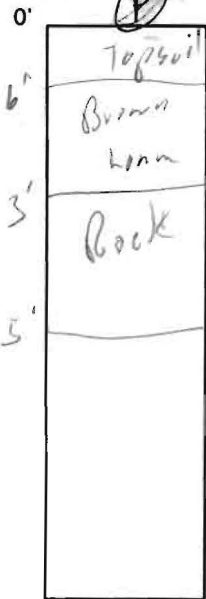
PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

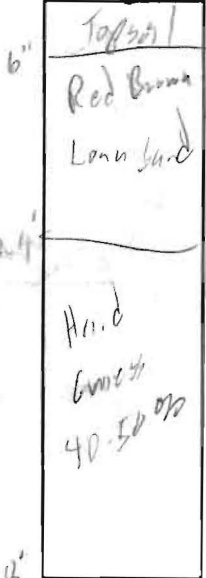
THIS IS NOT A PERMIT

COUNTY #

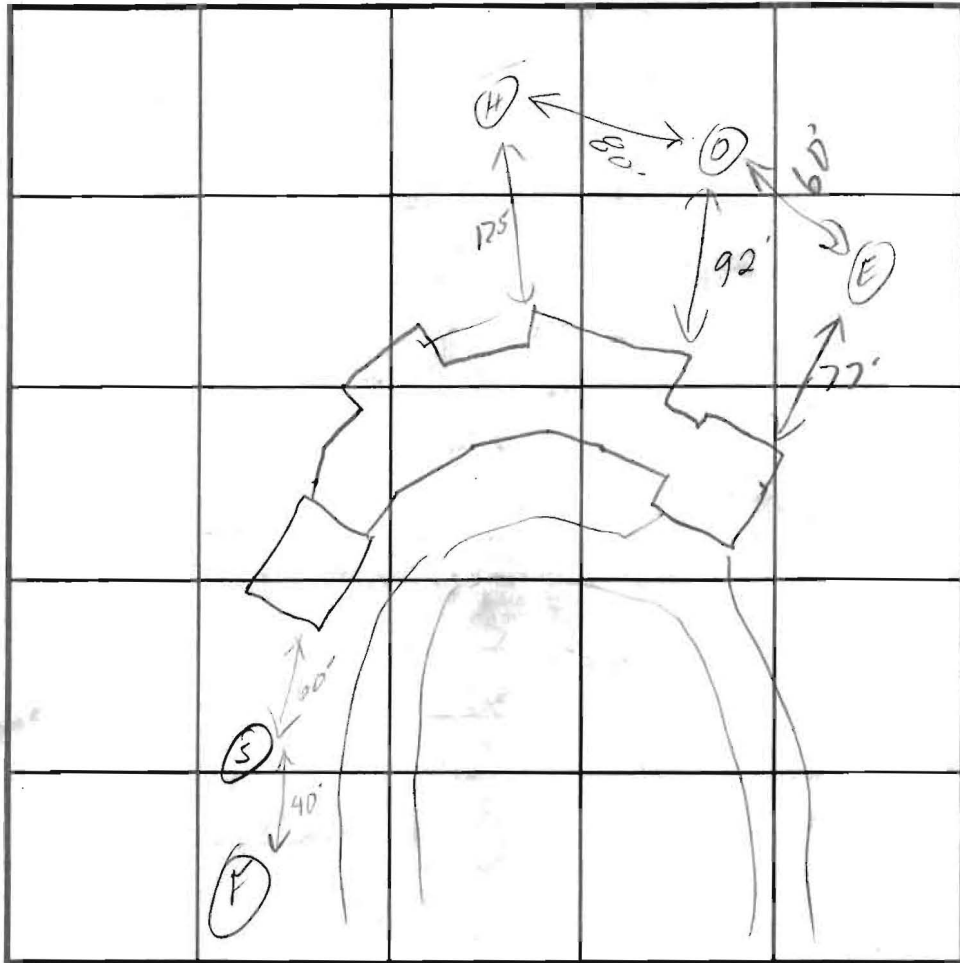
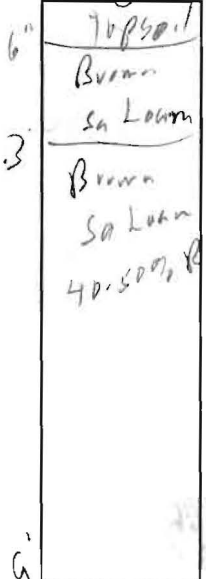
SOIL PROFILE



(S)

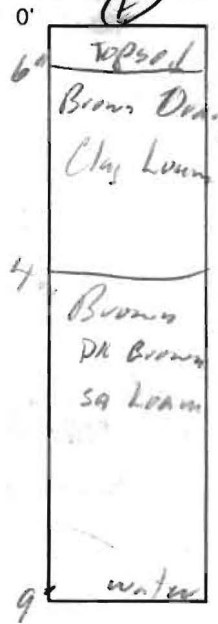


(O)



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE



DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME		
			START	STOP	START	STOP			
7/9/04	S	8'			Similar to holes at sand mound				
	F	5'							
	O	30" 9'	11:40	11:54	11:54	12:00	6'	P	
	H	6" topsoil	to solid Rock						F
	F	9' water						F	

REMARKS _____

TYPE OF SOIL _____

TESTED BY _____ ALSO PRESENT _____

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT./BEDROOM _____



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 519072

AGENCY REVIEW: _____

DATE _____

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH _____ PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) _____

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

APPLICANT _____

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME 1380 Driver Rd LOT NO. _____

PROPERTY ADDRESS _____
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) _____ GRID _____ PARCEL(S) _____ PROPOSED LOT SIZE _____

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

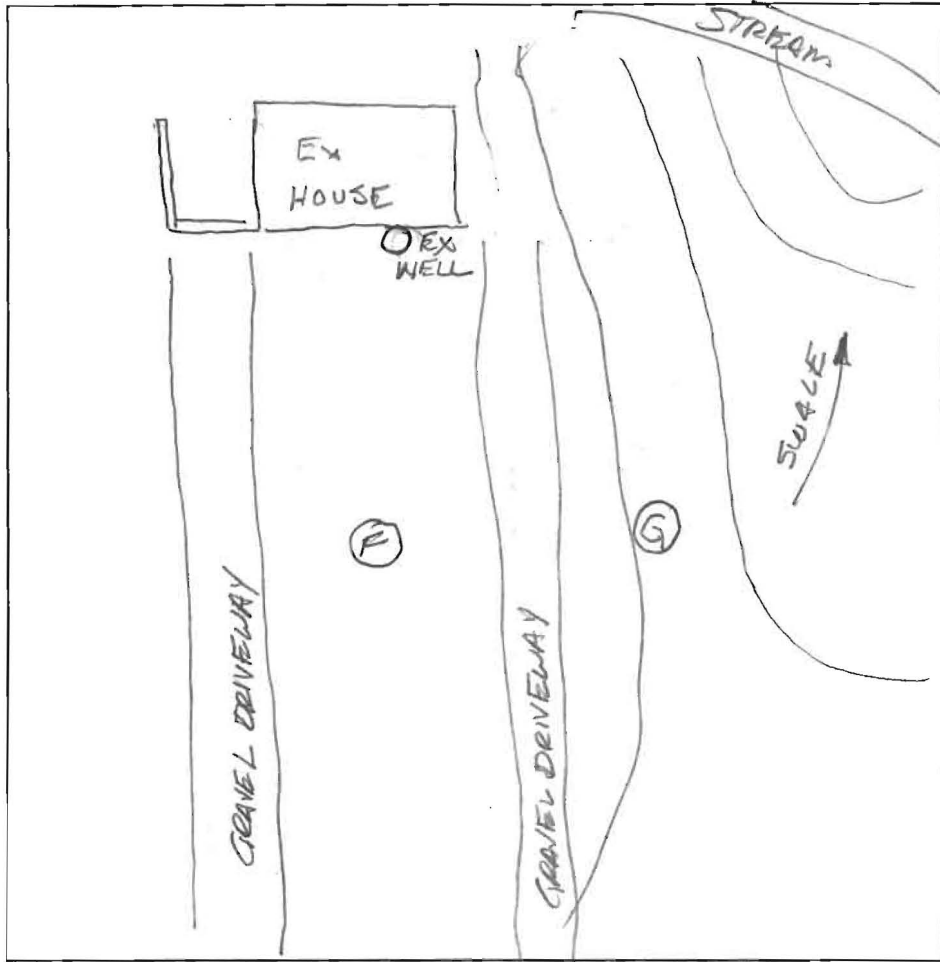
TEST RESULTS WILL BE MAILED TO APPLICANT.

SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
3525-H ELLICOTT MILLS DRIVE, ELLICOTT CITY, MARYLAND 21043-4544 (410) 313-1771 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

AP

Brown Loom
 Brown Silen. Loom
 4 > 50% Stony Guess
 Hard GNESS Bottom



DRIVEWAY TO 1380 DRIVER ROAD

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
9/2/03	G	NOT TESTED	SHALLOW	ROCK @ 4'			
	F	NOT TESTED	SHALLOW	ROCK @ 4'			

REMARKS _____
 SANITARIAN FA BACKHOE _____ OTHERS Mr. William Gremmeson Backhoe Operator
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____ A/P _____

AGENCY REVIEW: _____ DATE _____

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- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
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CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH _____ PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE *UNKNOWN* IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
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PROPERTY OWNER(S) _____

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

APPLICANT _____

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME _____ LOT NO. _____

PROPERTY ADDRESS 1380 Driver Rd
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) _____ GRID _____ PARCEL(S) _____ PROPOSED LOT SIZE _____

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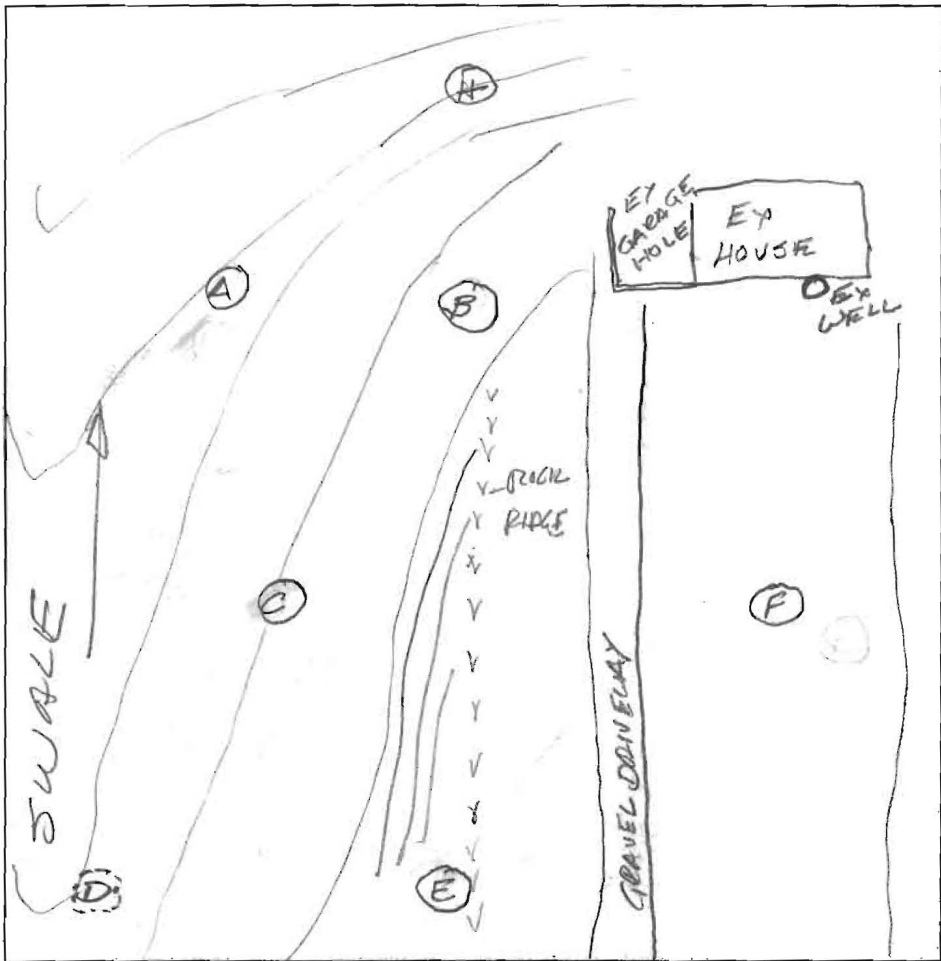
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A/P

E
Brown loam w/ 75090 irony Gneiss
Red Brown Silty loam + loamy sand
Hard Gneiss Bottom

A
Brown loam
Red Brown Silty loam + loamy sand
HARD GNEISS BOTTOM

C
Brown loam
Red Brown Silty loam + loamy sand
Hard Gneiss Bottom



F
Brown loam w/ 75090 irony Gneiss
Red Brown Silty loam + loamy sand
Hard Gneiss Bottom

F
Brown loam w/ 75090 irony Gneiss
HARD GNEISS BOTTOM

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
9/2/03	E	NOT TESTED	SHALLOW	ROCK @ 4'			
	A	NOT TESTED	SHALLOW	ROCK @ 4'			
	B	5 1/2' / 12'	FAST		10:15-20	10:15-32	1 1/2'
	F	NOT TESTED	SHALLOW	ROCK @ 4'			
	C	NOT TESTED	SHALLOW	ROCK @ 7'			
	D	NOT EXCAVATED PER BG					

REMARKS _____
 SANITARIAN FA BACKHOE _____ OTHERS Mr. William Greenhouse, Backhoe operator
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

MOUND TEST DATA SHEETS

Property I.D. 1380 DRIVER RD HARRIOTSVILLE Lot # PARCEL B1 Date OCT 1, 2003

Sanitarian FA/KS Landscape Position _____

% Slope 6-8% Soil Type Pr B2 Contractor RICHARDSON ENGINEERING GMEINWIESER-OWNER

HOLE # K DEPTH OF TEST 18 in START TIME 9:30

PERC HOLE F
Brown loam
750 gms/ton
Red Brown
5a loam
5c loam
HARD
GRAVELS

Hook Gauge Reading	Elapsed Time (min)	Measured Drop ⁱⁿ	Estimated Rate ^{min/in}	% Change
10 1/16	0	0		
6 13/16	15	1.1875	13	
5 3/8	15	1.4375	10	
4 1/16	20	1.3125	15	
2 15/16	15	1.125	13	
2	15	.9375	10	

HOLE # K DEPTH OF TEST 18 in START TIME 10:55 *

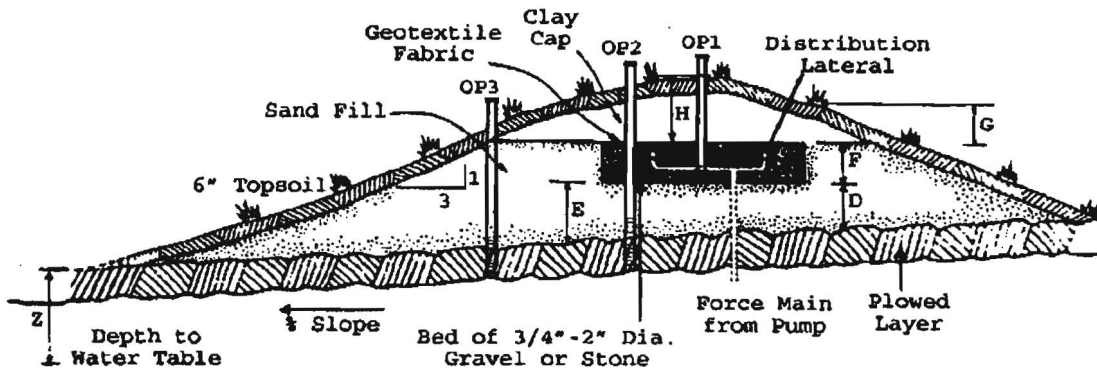
PERC HOLE F
See above description

Hook Gauge Reading	Elapsed Time (min)	Measured Drop ⁱⁿ	Estimated Rate ^{min/in}	% Change
10 14/16	0	—		
8 14/16	17	2	9	
7 1/16	18	1.8125	10	
6 1/16	15	1	15	
5 1/16	15	1	15	

* Added more water to perc hole

SAND MOUND

Cross Section



- D = Upslope Sand Fill Depth (in.) = 12"
- E = Downslope Sand Fill Depth (in.) = 18.5"
- F = Bed Depth (in.) = 10"
- G = Cap and Topsoil Height at Bed = 12" Edges (in.)
- H = Cap and Topsoil Height at Bed = 10" Center (in.)
- Z = Depth to Water Table (in.) 48"
- OP = Observation Ports (recommended)

FIGURE 3.1 – DESIGN WORKSHEET CROSS SECTION

APPROVED FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS

Penny Borenstein M.D.
 COUNTY HEALTH OFFICER

11/10/03
 DATE *FA 11/10/03*

Richardson Engineering, LLC

730 W. Padonia Road, Suite 101
 Baltimore, Maryland 21030
 Tele.: 410-560-1502
 Fax: 410-560-0827

**SEPTIC SYSTEM
 DETAIL**

**GMEINWEISER RESIDENCE
 1380 DRIVER ROAD
 HOWARD COUNTY, MARYLAND**

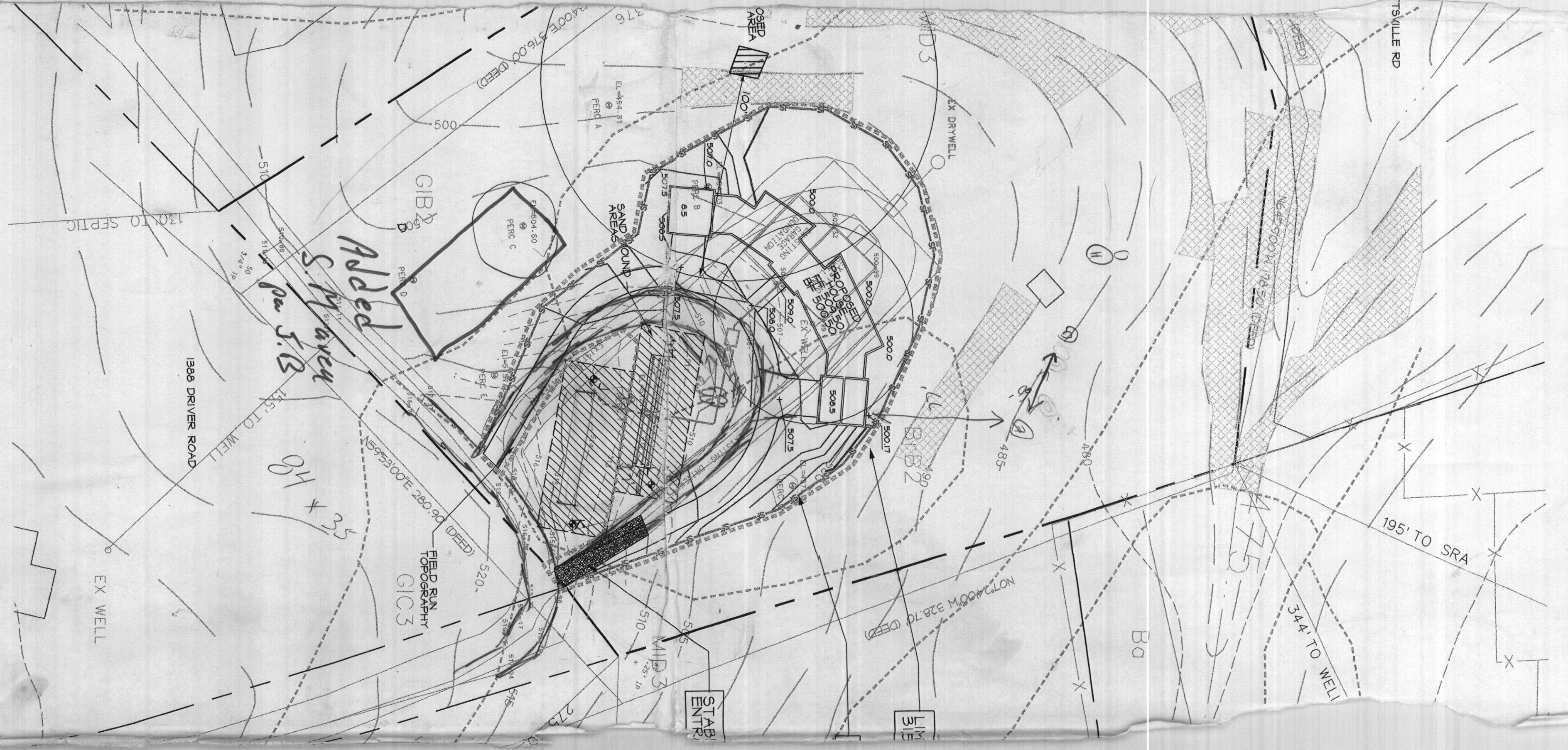
DRAWN BY: PCR

REVIEW BY: PCR

DATE: OCT., 2003

JOB NO. 09062

SCALE: AS SHOWN



PERCOLATION CERTIFICATION:

I CERTIFY THAT THE LOCATIONS SHOWN HEREON ARE BASED ON THE BEST OF MY KNOWLEDGE AND BELIEF.

Brian Dietz

BRIAN DIETZ, LS #21080

ATER AND PRIVATE SEWAGE SYSTEMS

DATE