

LAYOUT 9/28/2012 INSP 4 10/5/2012 10/24/2012  
 INSP 2 9/29/2012 (AM) INSP 5 10/10/2012 12/17/2012  
 INSP 3 9/29/2012 (PM) INSP 6 10/12/2012 3/8/2013  
 ISSUE DATE: 9/24/12 **PERMIT** 3/11/2013 P 538073  
 APPROVAL DATE: 3/14/2013 A 523239

**SANDMOUND SYSTEM  
 ON-SITE SEWAGE DISPOSAL SYSTEM  
 HOWARD COUNTY HEALTH DEPARTMENT  
 BUREAU OF ENVIRONMENTAL HEALTH**

Trinity Quality Homes IS PERMITTED TO INSTALL  ALTER

ADDRESS: 3675 Park Avenue Ste 301 Ellicott City MD 21043 PHONE NUMBER: 443-324-9806

SUBDIVISION: The Chase at Stoney Brook LOT NUMBER: 14

ADDRESS: 16322 Cattail River Drive PROPERTY OWNER: Trinity Quality Homes

SEPTIC TANK CAPACITY (GALLONS): 2000 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): 1500 COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4

LOCATION:	Sand Mound to be installed. See approved Plan for location and elevations. Note: Sand must meet Howard County Specifications. Subject to approval.
NOTES:	Sand mounds should be staked and heavy equipment should be kept off of location. Maintain a minimum 100 foot separation distance between Sand Mound System and well on neighboring property. SDA is to be fenced during building construction and grading. Layout inspection is required prior to the start of system installation.

PLANS APPROVED: Jeff Williams DATE: 7/11/12

NOTES: PERMIT VOID AFTER 2 YEARS  
 CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS  
 WATERTIGHT SEPTIC TANKS REQUIRED  
 ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED  
 MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED  
 CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS PERMIT

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS  
 RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM  
 PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT  
 ALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM**

NOT TO SCALE

TRENCH/DRAINFIELD DATA

WIDTH INLET BOTTOM

NUMBER OF TRENCHES

TOTAL LENGTH

ABSORPTION AREA

DISTRIBUTION BOX LEVEL

DISTRIBUTION BOX BAFFLE

DISTRIBUTION BOX PORT

See As-Built Drawing  
On Separate Sheet

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL Yes

MANUFACTURER Babylon

CAPACITY 2000 GAL

SEAM LOC TOP

TANK LID DEPTH 1'-2'

BAFFLES Yes

BAFFLE FILTER ?

MANHOLE LOC Front

6" PORT LOC Rear

WATERTIGHT TEST No

SLOTTED Yes

DATE ON LID Dry

PUMP/SEPTIC TANK LEVEL Yes

MANUFACTURER Babylon

CAPACITY 1000 GAL

SEAM LOC TOP

TANK LID DEPTH 1'-2'

BAFFLES Front

BAFFLE FILTER No

MANHOLE LOC Middle

6" PORT LOC Front

WATERTIGHT TEST No

SLOTTED No

DATE ON LID 8/27/2012

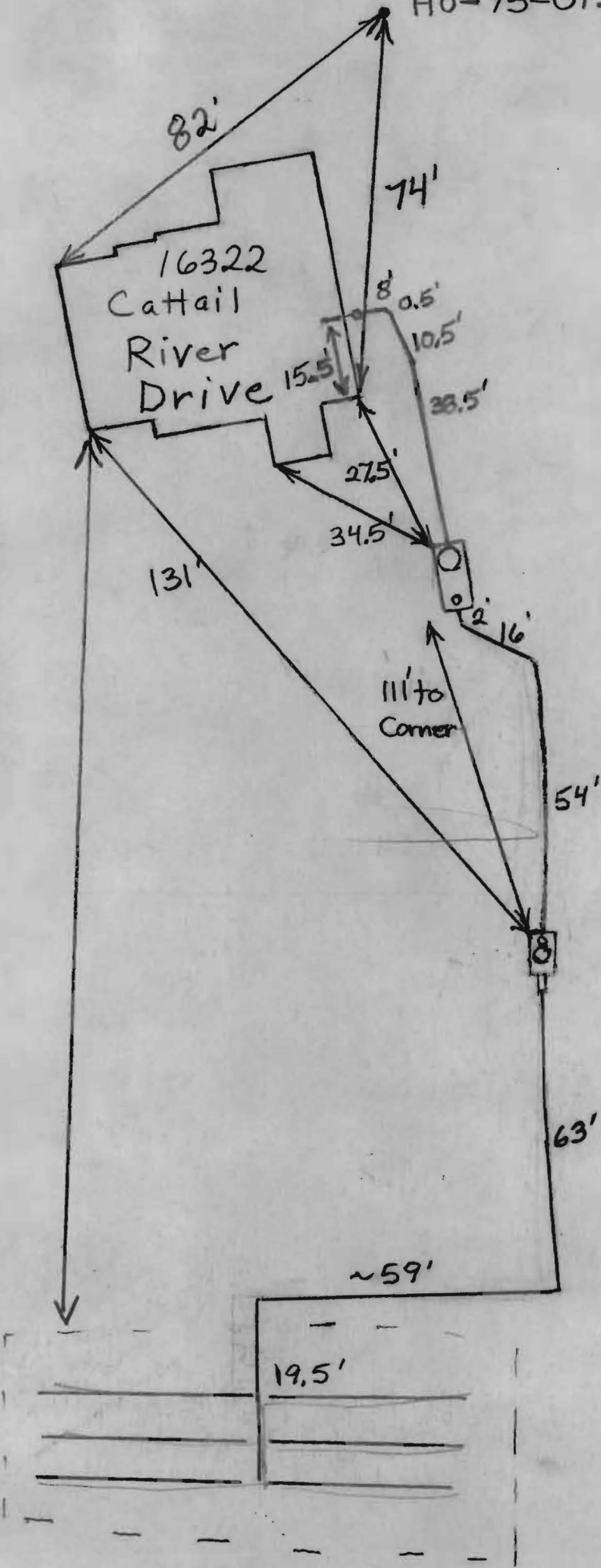
3/8/2013 - Pump too small? Only getting  
1'-1.5' of head in turn-ups. Install  
stronger pump and install adjusting valve  
if needed. (BB) 3/11/2013 Pump still not achieving  
2' of head in turn-ups. Will try different  
pump and may have to remove end holes. (BB)  
3/14/2013 Turn up holes removed. High volume  
pump installed. Able to get 2' of head in turn-ups. (BB)

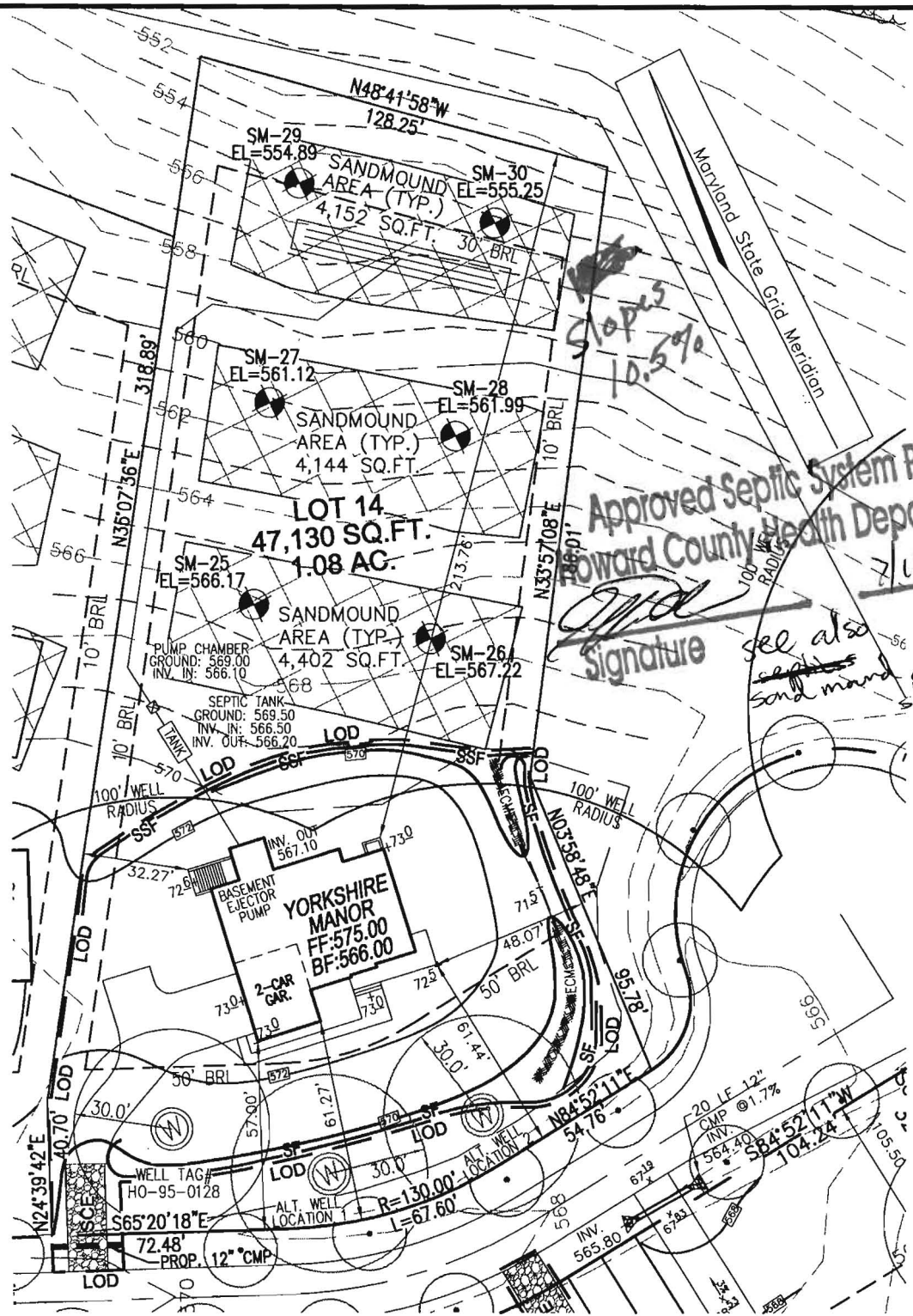
ROAD NAME

PRE-CONSTRUCTION

9/28/2012 The bottom of the mound and bed were painted  
out on contour. The contractor was driving over the  
reserve mound sites with dump trucks and the backhoe.  
Told him to dump the sand by using the parcel next door  
and to keep the backhoe of the reserve mound areas. (BB)

INSTALLATION: 9/29/2012 Checked mound site for dryness and gave  
O.K. to plow in the afternoon. Repainted and staked the  
bottom of the mound and bed. (BB) 9/29/2012 (PM) Mound  
site plowed. Installer covering it with sand. Finished layout. (BB)  
10/5/2012 Need house connection. Tanks set. (BB) 10/10/2012 No work  
done. Contractor didn't return my phone call to say he wasn't  
working. (BB) 10/12/2012 Pump line installed. (BB)  
10/24/12 Initial pump test on laterals. OK. Bed a little sloppy. OK  
to cover w/ gravel and cloth. Cap soil on site. m.c.h. OK to cover. Will need  
FINAL INSPECTOR B. Baker DATE OF APPROVAL 3/14/2013  
final p/A test. (BB) 12/17/2012 House connection made. (BB)

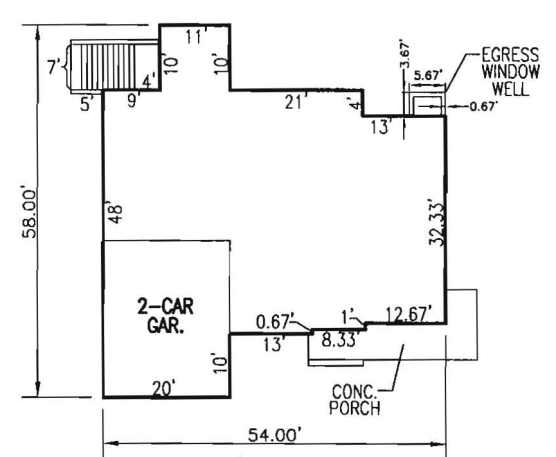




Approved Septic System Plan  
 Howard County Health Department  
 7/1/12 Date  
 Signature  
 see also sand mound design sheets

SCALE  
 1"=50'

⊗ DENOTES A PASSED PERC TEST HOLE



**THE YORKSHIRE MANOR**  
 W/ CULT. STONE & VINYL SIDING  
 SCALE: 1"=30'

THE EXISTING WELL SHOWN ON LOT 14 TAG NO. 95-0128 HAS BEEN FIELD LOCATED BY ROBERT H. VOGEL ENGINEERING, INC., AND IS ACCURATELY SHOWN.

BUILDING OF LOT 14 FLOOR AREAS:  
 BASEMENT FLOOR AREA: 1480  
 FIRST FLOOR AREA: 1500  
 SECOND FLOOR AREA: 1800  
 BEDROOMS: 4

NOTE: STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY AN EXISTING EXTENDED DETENTION FACILITY UNDER F-05-170

BUILDING PERMIT NO. B10002052

K:\PROJECTS\06-11-12\14.dwg, 7/3/2012 11:35:49 AM, E:\ORIG\14-C-3800\14 Primer.pcs

SCALE: AS SHOWN  
 DRAWN BY: JMR  
 CHECKED BY: RHV  
 DATE: July MAY 2012  
 PROJECT #: 06-34  
 SHEET#: 1 OF 1

**PLOT PLAN**  
**THE CHASE AT**  
**STONEY BROOK**  
**LOT 14**  
**REF: F-05-170**  
 TAX MAP 7 PARCEL 133  
 BLOCK 17  
 4TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

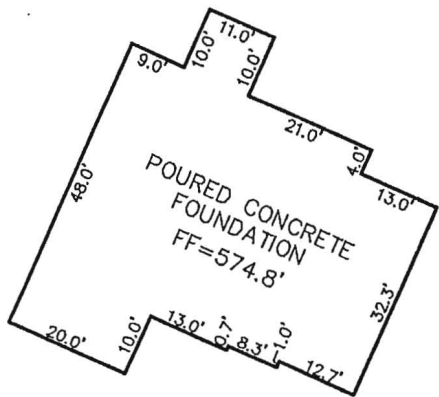
**ADDRESS**  
 16322 CATTAIL RIVER DR.  
 WOODBINE, MD 21797  
 GP: 07-69

**OWNER**  
 TRINITY QUALITY HOMES INC.  
 3675 PARK AVENUE, SUITE 301  
 ELLICOTT CITY, MARYLAND 21043  
 (410) 480-0023

**ROBERT H. VOGEL ENGINEERING, INC.**  
 ENGINEERS • SURVEYORS • PLANNERS  
 8407 MAIN STREET ELLICOTT CITY, MD 21043  
 TEL: 410.461.7666 FAX: 410.461.8961

THIS WALL CHECK DRAWING CONTAINS A HORIZONTAL TOLERANCE IN ACCURACY OF 0.1' AND A VERTICAL TOLERANCE IN ACCURACY OF 0.2'

MARYLAND STATE GRID MERIDIAN (NAD83/91)



DETAIL: 1"=30'

PARCEL "A"

20' PUBLIC STORM DRAINAGE & UTILITY EASEMENT

LOT 15

LOT 14  
47,132 S.F.

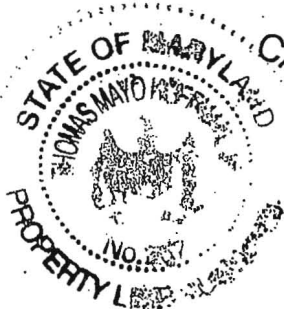
PARCEL "E"

6' PUBLIC DRAINAGE & UTILITY EASEMENT

SEE DETAIL

10' PUBLIC TREE MAINTENANCE EASEMENT

*Wall check ok  
RB 9/24/2012  
House rotate clockwise*



CATTAIL

RIVER DRIVE  
40' RIGHT-OF-WAY

16322 CATTAIL RIVER DRIVE

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT THE IMPROVEMENTS ARE LOCATED AS SHOWN AND THERE ARE NO ENCROACHMENTS EXCEPT AS SHOWN.

*Thomas M. Hoffman Jr.*

9.12.12

THOMAS M. HOFFMAN JR., PROPERTY LINE SURVEYOR #267 DATE

PROFESSIONAL CERTIFICATION; I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 267, EXPIRATION DATE JULY 28, 2014.

BUILDING PERMIT #B12002052

SCALE 1"= 50'	DATE 09/10/12
DRAWN BY A.M.S.	CHECKED BY T.M.H.
PLAT NUMBER 18644-18649	JOB NUMBER 06-034

ROBERT H. VOGEL ENGINEERING, INC.  
ENGINEERS - SURVEYORS - PLANNERS  
8407 MAIN STREET  
ELLICOTT CITY, MARYLAND 21043  
TEL:410-461-7666 FAX:410-461-8961

WALL CHECK DRAWING  
LOT 14  
THE CHASE AT  
STONEY BROOK  
PLAT No. 18648  
4th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

# SAND MOUND

## ~~CONVENTIONAL TRENCH~~ SEPTIC SPECIFICATIONS WORKSHEET

PROPERTY ID: Smith Property TAX MAP: \_\_\_\_\_ A \_\_\_\_\_  
STREET NAME: \_\_\_\_\_ PARCEL #: \_\_\_\_\_ LOT NUMBER 18 14

AVERAGE PERCOLATION RATE: \_\_\_\_\_ SQUARE FEET PER BEDROOM \_\_\_\_\_  
NUMBER OF BEDROOMS: \_\_\_\_\_ LINEAR FEET OF TRENCH PER BEDROOM \_\_\_\_\_  
TOTAL LINEAR FEET OF TRENCH \_\_\_\_\_ SEPTIC TANK CAPACITY: \_\_\_\_\_  
TOP SEAMED TANK REQUIRED? YES NO  
COMPARTMENTED TANK REQUIRED? YES NO

TRENCH DESIGN: Trench to be \_\_\_\_\_ feet wide. Inlet \_\_\_\_\_ feet below original grade. Bottom maximum depth \_\_\_\_\_ feet below original grade. Effective area begins at \_\_\_\_\_ feet below original grade. \_\_\_\_\_ feet of stone below distribution pipe.

PUMPED SYSTEM PROPOSED: YES NO  
PUMPED SEPTIC SYSTEM DETAIL: \_\_\_\_\_ gallon pump chamber  
YES NO top seamed pump chamber required?

LOCATION: See approved sand mound design plans for installation procedures and sand mound design specifications

ADDITIONAL NOTES: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

REVIEWER: \_\_\_\_\_ DATE: \_\_\_\_\_



TEST DATA

NAME <u>Smith Property</u>	FILE NO _____
LOCATION <u>Rt. 94</u>	COUNTY <u>Howard</u>
<u>Tax Map : 7 Pcl 133</u>	DATE <u>3/28/00</u>
RECORDED BY <u>Steven R. Krieg</u>	GRID _____ E N

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)	
	27	2'	1:11	-	10	Pour	
			1:21	10	7	3 10 3 = 3	
			1:31	10	4 8/16	2 8/16 10 2.5 = 4	
			1:33	-	10	repair	
			1:43	10	6 13/16	3 1/16 10 3.25 = 3	
			1:53	10	4 7/16	2 9/16 10 2.563 = 3.9	
			2:03	10	1 14/16	2 5/16 10 2.313 = 4	
			2:05	-	10	repair	
			2:15	10	7 8/16	2 8/16 10 2.5 = 4	
			2:25	10	5 5/16	2 3/16 10 2.188 = 4	
			2:27	10	10	repair	
			2:37	10	7 7/16	2 14/16 10 2.875 = 3	
			2:47	10	5	2 4/16 10 2.125 = 1	
			TEST TERMINATED			(CRAIN)	4min
28	28	2'	1:14	-	10	Pour	
			1:24	10	8 13/16	1 7/16 10 1.25 = 8	
			1:34	10	7 12/16	1 10 1 = 10	
			1:44	10	6 10/16	1 2/16 10 1.125 = 9	
			1:54	10	5 12/16	1 1/16 10 .875 = 11	
			2:04	10	4 9/16	1 3/16 10 1.188 = 8	
						9min (OK)	

(OK)

(OK)

TEST DATA

NAME _____	FILE NO _____
LOCATION <u>Smith Prop</u>	COUNTY _____
_____	DATE <u>3/29</u>
_____	GRID _____
RECORDED BY <u>Amy McMillen</u>	E N

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method,Moisture,Biopores)
	29	18"	8:41		7.0	
			8:51	10min	3 2/16	3.875 2.5 min/inch
			8:52		7.0	
			9:05		7.0	
			9:10	5min	4 1/16	2.313 2.1
			9:20	10min	0	4.688 2.1
						2.1 min/inch (OK)
	30		8:45		7.0	
			8:55	10min	4.0	3 3 min/inch
			9:00	5min	7.0	
			9:05	5min	5 1/16	1.938 2.5
			9:07		7.0	
			9:12	5min	5 10/16	1.375 3.6
			9:19	5min	3 8/16	2.125 2.3
						3 min/inch (OK)

11/15/98

# APPLICATION

PERCOLATION TESTING

A \_\_\_\_\_

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 CENNY SMITH

ADDRESS P.O. Box 12726 PHONE \_\_\_\_\_

AGENT OR PROSPECTIVE BUYER \_\_\_\_\_

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

PROPERTY LOCATION:

SUBDIVISION \_\_\_\_\_ LOT NO. \_\_\_\_\_

ROAD AND DESCRIPTION ROUTE 94

TAX MAP 7 PARCEL # 133

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

604

heavy red silclm  
3.5  
dark red & brown mottled from parent rock 60% shale

605 606

no distinct clay layer dark red silm 30% grey micaceous shale

607 708

dark red silclm  
4.5  
brown silm 25% shale

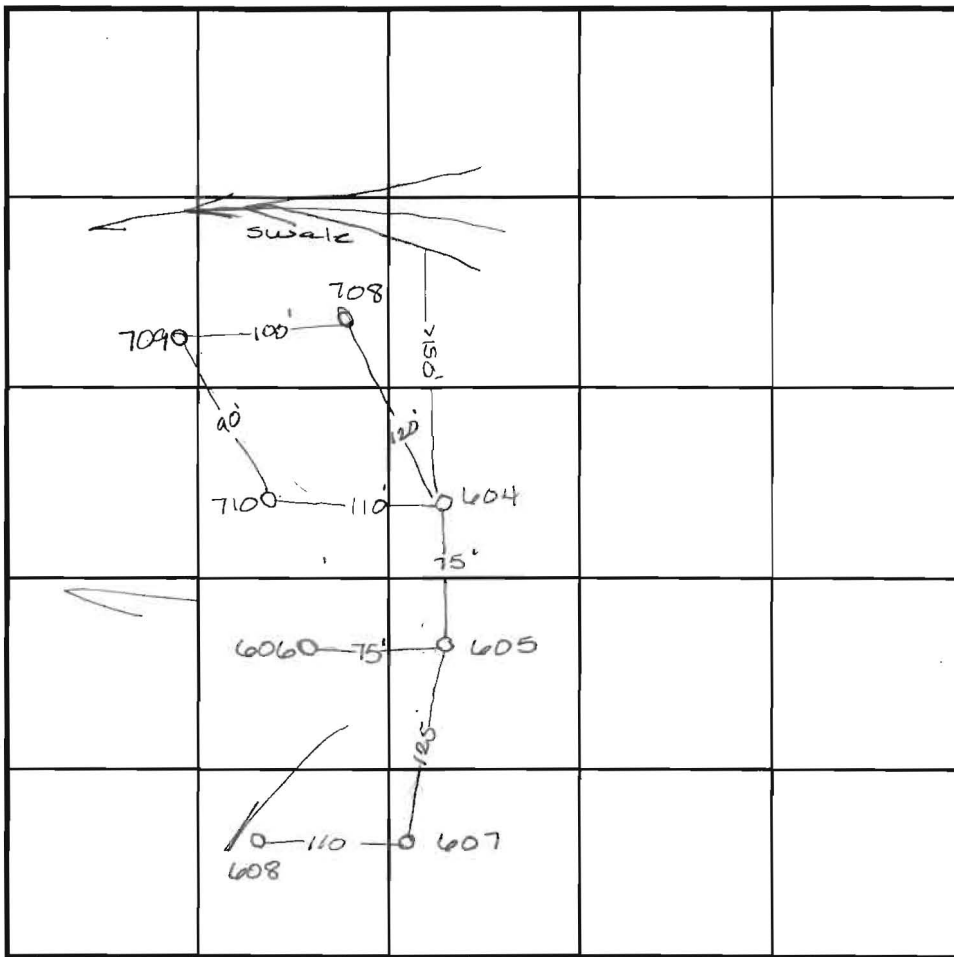
SOIL PROFILE

608

like 607 but packets of 60-70% black hard shale  
marginal Pass

710 711

40% Rock w/ red brn silclm packets of 60% Rx @ 6.0' refusal



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8-3-98	604	5.0 / 10.0	10:48	10:51	10:51	10:54	3min
		Insufficient depth to bedrock -					F
	605	5.0 / 11.0	10:59	11:12	11:12	>30'	slow
	606	5.0 / 10.5	11:00	11:05	11:05	11:10	5min
	607	4.5 / 11.5	11:13	11:39	11:39	>30'	slow
	608	5.0 / 11.0	11:31	11:34	11:34	11:40	6min
8-4-98	709	4.0 / 8.0	1:00	1:02	1:02	1:05	3.0
	709/710	Fast perc & shallow depth to bedrock					F
	710	4.0 / 10.0	1:01	1:05	1:05	1:11	6min F
	708	6.0 / 10.0	1:14	1:18	1:18	1:25	7min

REMARKS \_\_\_\_\_  
 TYPE OF SOIL \_\_\_\_\_  
 TESTED BY \_\_\_\_\_ ALSO PRESENT \_\_\_\_\_  
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH \_\_\_\_\_  
 INLET DEPTH \_\_\_\_\_ MAXIMUM BOTTOM DEPTH \_\_\_\_\_ SQ. FT./BEDROOM \_\_\_\_\_

# Approved Peric Plan 7/27/01

