

# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_

AP 529499

AGENCY REVIEW: \_\_\_\_\_

DATE 7/29/08

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 15 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) Martin & Julie Madden

DAYTIME PHONE 3015969788 CELL 3017063216 FAX N/A

MAILING ADDRESS 11524 Crows Nest Rd Clarksville Md 21029  
STREET CITY/TOWN STATE ZIP

APPLICANT Ellen James

DAYTIME PHONE 4103817883 CELL same FAX 4104421271

MAILING ADDRESS 1816 Daisy Rd Woodbine Md 21797  
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION  
SUBDIVISION/PROPERTY NAME Clarksville Ridge (meadows) LOT NO. \_\_\_\_\_

PROPERTY ADDRESS 11524 Crows Nest Rd Clarksville 21029  
STREET TOWN/POST OFFICE

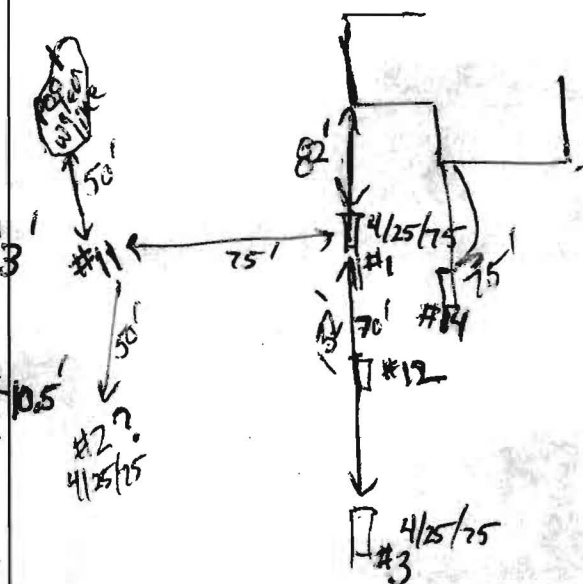
AX MAP PAGE(S) \_\_\_\_\_ GRID \_\_\_\_\_ PARCEL(S) \_\_\_\_\_ PROPOSED LOT SIZE \_\_\_\_\_

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 DETAILED SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MINIMUM UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN. TEST RESULTS WILL BE MAILED TO APPLICANT.

Ellen James  
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM  
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-1771 FAX (410) 313-2648  
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

# 11524 Crows Nest Rd.



AP  
#11  
0.3' brns l  
red-brn scl  
2' 2 msbk  
1' brns l  
saprolite,  
common mica  
3' black, tan  
d brns l  
common mica  
Variegated  
pale red, white  
black, tan  
fst saprolite  
14'

#12  
0.3' dk brns l  
brns l  
1.5' 2f sbk  
1.5' brn to  
red-brn scl  
7' many mica  
black, tan  
& brown sl  
many mica  
12' black & brown ls  
muscovite  
13' schist

#13  
0.3' brns l  
red-brn scl  
3' msbk  
to 2' msbk  
3' red-brn scl  
many mica  
6' blk, tan, brn  
fst, many mica  
R.5' blk, grey  
& red  
chls  
13'

#74  
0.8' brn gss l  
red-brn  
2.5' sel, 3msbk  
common mica  
3.5' brns l  
red-brn scl  
many mica  
7' brns l  
many mica  
few channels  
10' brn chsl  
1' micaceous  
12'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/8/08	11	4.8' / 14'	10:59	11:02	11:05	3	P
8/8/08	12	3.5' / 13'	11:46	11:48	11:51	3	P
8/8/08	13	12.5'	Visual	3' to 8'	Sidewall OK 2min - 5min perc		P
8/8/08	14	12' +	Visual	3' to 8'	Sidewall OK		P

REMARKS  
SANITARIAN RB BACKHOE Todd OTHERS Ellen James  
Martin Madden  
TEST HOLES USED IN SDA 11-14 & AVG. PERC TIME 3 min SQ. FT/BR 125  
TRENCH WIDTH 203 INLET DEPTH 2 to 3 MAX. BOT DEPTH 6 to 8 EFFECTIVE S/W AS  
needed



# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

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AP 529479

AGENCY REVIEW: \_\_\_\_\_

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☐ 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:

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PROPERTY OWNER(S) Martin & Julie Madden

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PROPERTY LOCATION  
SUBDIVISION/PROPERTY NAME Clarksville Ridge (meadows) LOT NO.

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STREET TOWN/POST OFFICE

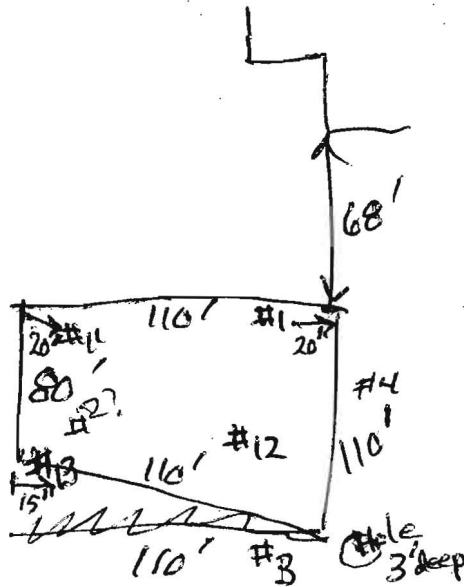
TAX MAP PAGE(S) \_\_\_\_\_ GRID \_\_\_\_\_ PARCEL(S) \_\_\_\_\_ PROPOSED LOT SIZE \_\_\_\_\_

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TEST RESULTS WILL BE MAILED TO APPLICANT.

SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM  
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-1771 FAX (410) 313-2648  
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H

REMARKS \_\_\_\_\_

SANITARIAN \_\_\_\_\_ BACKHOE \_\_\_\_\_ OTHERS \_\_\_\_\_

TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

APR  
#11

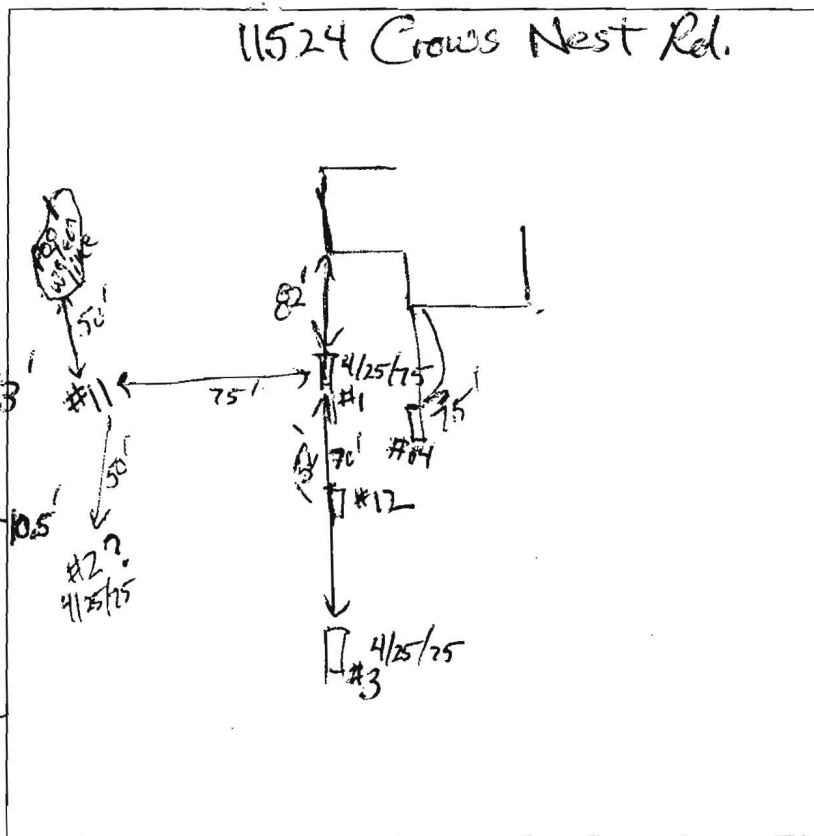
0.3' brnsl  
red-brnsl  
2 msbk

2' brnsl  
saprolite,  
common mica

3' black, tan  
& brnsl  
common mica

Variegated  
pale red, white  
black, tan  
fsi saprolite

14'



#12

0.3' dk brnsl  
brnsl  
2 fsbk

1.5' brn to  
red-brn fsi  
many mica

7' black, tan  
& brown sl  
many mica

12' black & brown sl  
muscovite

13' schist

#14

0.8' brn grsl  
red-brn  
sel. 3msbk  
common mica

2.5' brnsl  
red-brnsl  
many mica

3.5' brnsl  
red-brnsl  
many mica  
few channels

10' brnsl  
micaceous

12'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
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8/8/08	13	12.5'	Visual 3' to 8'	sidewall OK 2 min - 5 min perc			P
8/8/08	14	12' +	Visual	sidewall OK 3' to 8'			P

#13

0.3' brnsl  
red-brnsl  
3 msbk  
to 2msbk

3' red-brnsl  
many mica

6' blk, tan, brn  
fsi, many mica

12.5' blk, grey  
& red  
chls

REMARKS

SANITARIAN RB BACKHOE Todd OTHERS Ellen James  
Martin Madden

TEST HOLES USED IN SDA 11-14 & AVG. PERC TIME 3 min SQ. FT/BR 125

TRENCH WIDTH 2013 INLET DEPTH 2 to 3 MAX. BOT DEPTH 6 to 8 EFFECTIVE SWW AS  
needed



Bureau of Environmental Health  
7178 Columbia Gateway Drive, Columbia, MD 21046-2147  
(410) 313-2640 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

August 19, 2008

Martin Madden  
11524 Crows Nest Road  
Clarksville, Maryland 21029

RE: PERCOLATION TEST RESULTS, A-529499

Dear Mr. Madden,

Percolation testing was conducted on the referenced property on August 8, 2008. Four locations (11, 12, 13, 14) were described and two were percolation tested. These four locations are interspersed among four locations that were tested in the same general area on April 25, 1975. Field data collected are shown on the Percolation Test Worksheet enclosed with this letter. The Percolation Test Results indicate soils' conditions that are satisfactory for onsite wastewater disposal.

Recommended Inlet and Trench Bottom depths, and Usable Sidewall all are based on observed soil properties and characteristics at respective test locations as well as the particular soils materials tested. The values for these parameters will be maintained in the Health Department file for the subject property. Drainfield Trench Bottoms may be as deep as 6 feet for the initial system in the proposed septic easement. The Inlet should be at about 2 feet to 3 feet depth, and Effective Sidewall begins at 3.5 feet deep. The two percolation times were recorded at 3.5 feet and 4.8 feet were 3 minutes per inch of fall.


After completion of the planned addition, the residence will have about 3580 sq. ft of living area, requiring a 2000-gallon septic tank. The existing dry well is to be abandoned, and the septic tank capacity will need to be increased. The existing septic tank is 84 feet from the existing well. The existing septic tank (1250-gallon capacity) may remain, and to increase the tank capacity a second septic tank may be added. Alternatively, the existing septic tank may be properly abandoned and the replacement septic tank installed in accordance with code requirements. Trenches will need to be installed in the septic easement defined on the Percolation Certification Plan. The septic system upgrade will be required prior to approval of the building permit application.

The existing well was observed. The well has a steel casing about 16 to 18 inches above soil surface, and it is located about 42 feet from the northeast corner of the existing residence. The metal well cap is one-piece with a conduit snugly fitted into the cap port.

The well is to be protected during all phases of property redevelopment. Similarly the integrity of the septic easement is not to be compromised at any time; installation of drainfield trenches is the only acceptable excavation activity that should occur in that area designated as the 'Septic Easement'.

Your contractor, Ellen James, has submitted a Percolation Certification Plan which is currently under review. If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan, please contact me at the above address or by calling (410) 313-2691.

Respectfully,

  
Robert C. Bricker, Jr., CPSS, RS  
Well and Septic Program  
Development Coordination Section

Enclosures (2): Percolation Test Results Worksheets  
Copy: Ellen James  
File



11524 Grows West Road  
 Clarksville, Maryland 21031

Owner: Martin & Julie Madden

Contractor:

Ellen James

410 381 7883

410 442-1271 FAX

X proposed 2008 per test

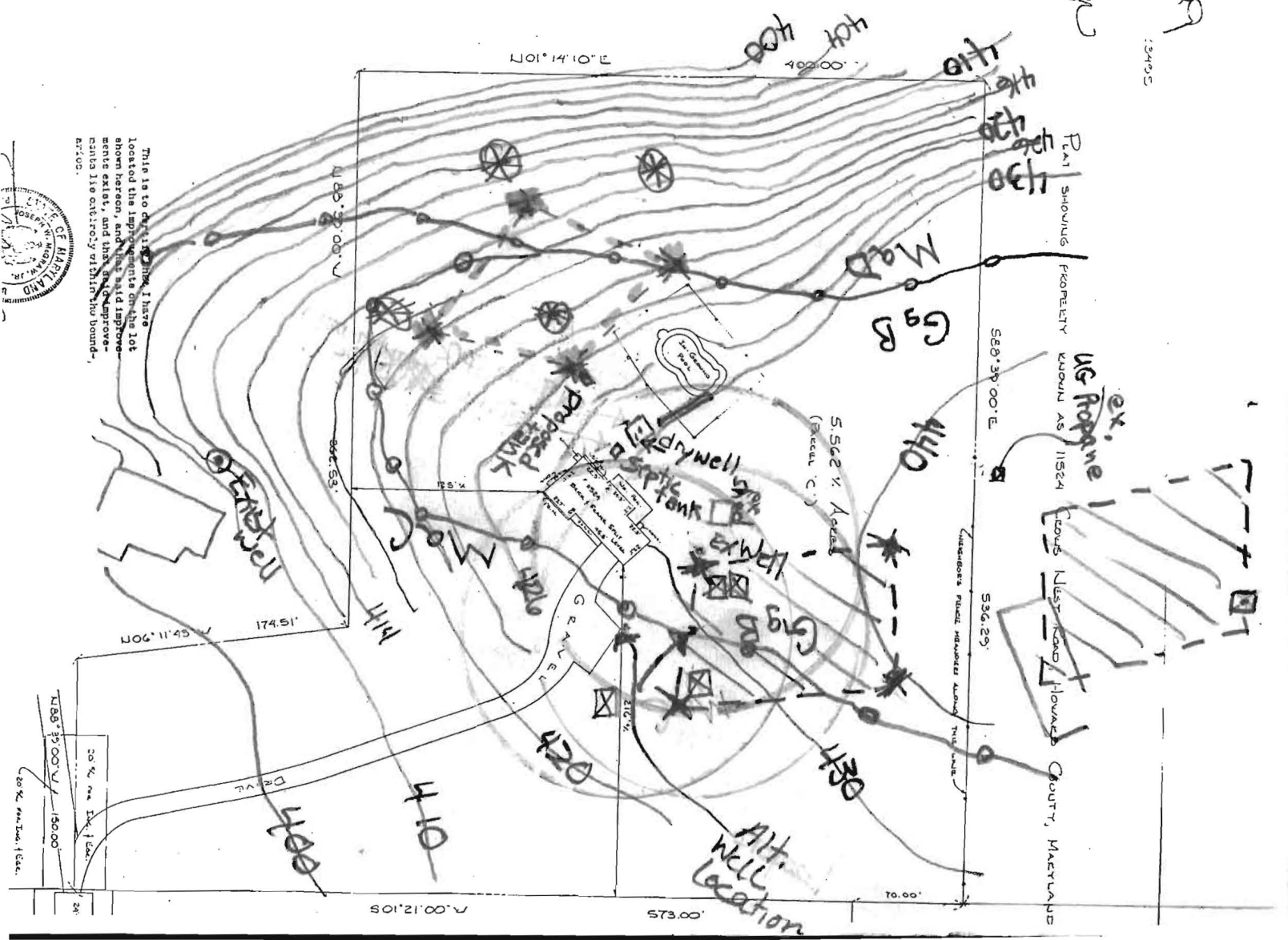
Septic easement

X per test pass 1972 1/15  
 X per test pass 1975 1/15  
 X per test pass 1975 1/15

Existing well

drywell

Soil lines

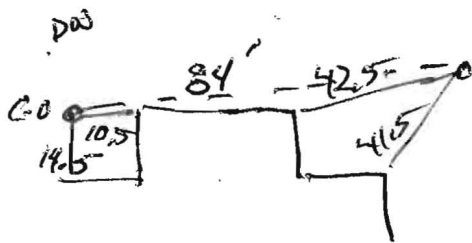


This is to certify that I have located the improvements on the lot shown hereon, and that said improvements extend, and that said improvements lie entirely within the boundaries.



Well HO-73-1041

1<sup>st</sup> cap 5' Top is 16" from soil surface  
(See Map)



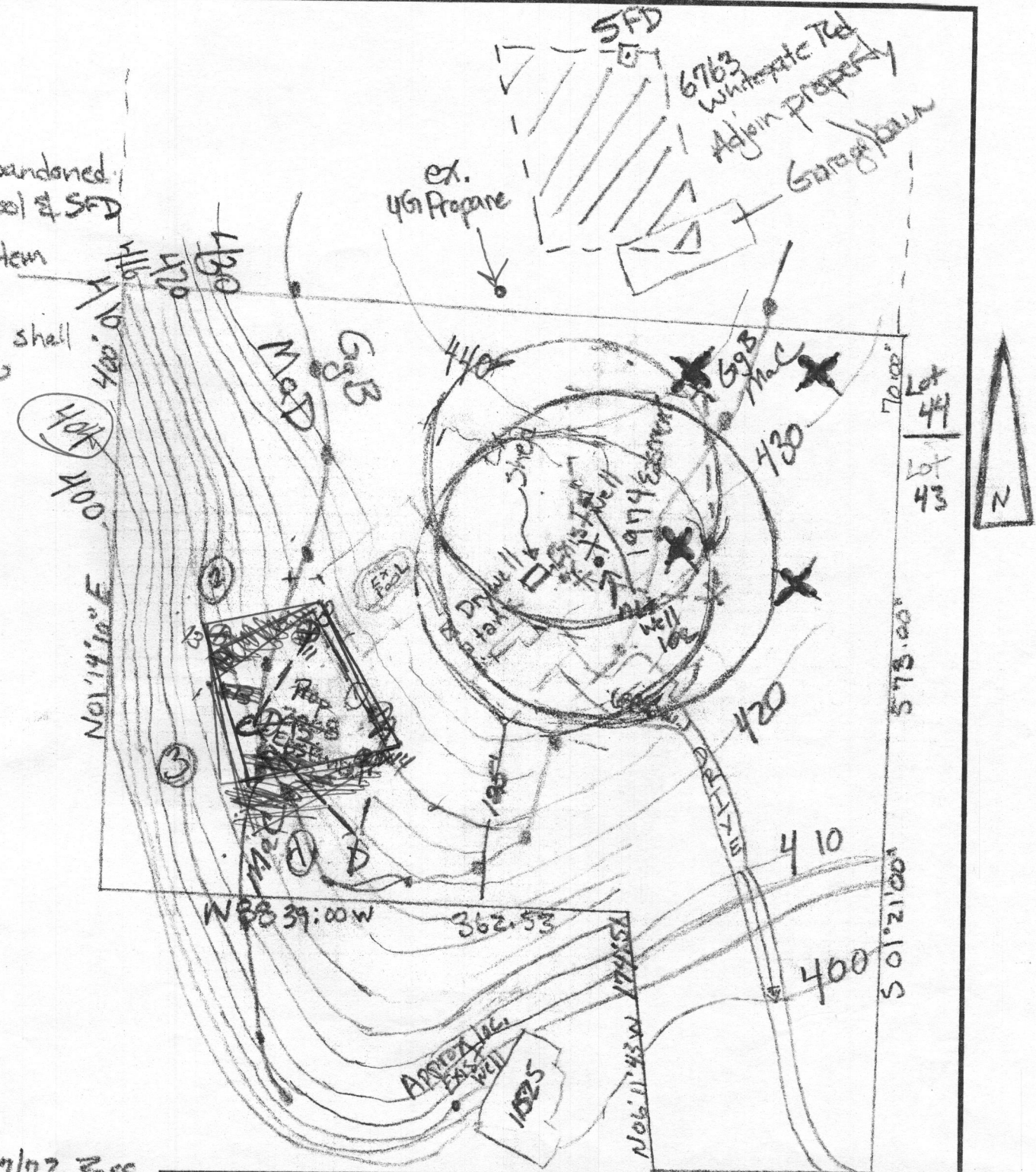
black pipe as conduit,  
fits snug into cap port  
though not fastened  
and may not be 18" into ground

27 paces to approx outside dia.  
dry well



Notes 8/08

- 1974 Easement to be abandoned
- Existing septic tank, drywell, and trench to be abandoned.  
(Tank to be filled, drywell to be filled) As shown between pool & SFD
- Proposed 2008 to be new easement with septic system to be relocated on new permit.
- Any change to this private sewage easement shall require a revised percolation certification plan



X 10/7/72 Pass  
 X 4/15/75 Pass  
 ① ① 4/25/75 Pass  
 A-C 8/8/08 Pass

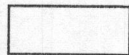
PERC Certification		N 88° 55' 00" W 20% for Ingress & Egress	
SCALE: 1" = 100'	APPROVED BY:	DRAWN BY	
DATE: 8-8-08		REVISED	
11524 Crow's Nest Rd			
		DRAWING NUMBER	



Notes 8/08

- 1974 Easement to be abandoned
- Existing septic tank, drywell, and trench to be abandoned (Tank to be filled, drywell to be filled) As shown, between pool & SFD
- Proposed 2008 to be new easement with septic system to be relocated
- Any change to this private sewage easement shall require a revised percolation certification plan

1. ALL EXISTING WELLS ON THE SUBJECT PROPERTY AND WITHIN 100 FEET OF SUBJECT PROPERTY BOUNDARIES ARE REPRESENTED TO THE BEST OF MY KNOWLEDGE AND BELIEF.
2. TOPOGRAPHY ON THIS PLAT IS FROM HOWARD COUNTY GIS (2006) AND IS VERIFIED TO ACCURATELY REPRESENT THE RELATIVE ELEVATION CHANGES ON AND NEAR THE SUBJECT PROPERTY.
3. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.
4. ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.



5. THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS EASEMENT ARE RESTRICTED. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
6. THE PURPOSE FOR THIS PERCOLATION CERTIFICATION PLAN IS TO CONFIRM PERCOLATION TESTS AND DEFINE THE BOUNDARIES FOR A RELOCATED SEPTIC EASEMENT IN SUPPORT OF A BUILDING PERMIT APPLICATION FOR AN ADDITION.
7. THESE SHALL REMAIN: THE EXISTING RESIDENCE, POOL, MOVABLE SHED, SEPTIC TANK, AND WELL.
8. SEPTIC TANK CAPACITY WILL BE UPGRADED AND NEW DRAINFIELD WILL BE INSTALLED, AND THE EXISTING DRY WELL AND TRENCH WILL BE ABANDONED, PRIOR TO HEALTH DEPARTMENT APPROVAL OF THE BUILDING PERMIT APPLICATION.

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON WORK PERFORMED IN MY PRESENCE OR BY MY DIRECTION, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*E. James*  
(SIGNATURE)

8/20/08  
(DATE)

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.

*B. Nixon for Peter Beilenson*  
(SIGNATURE)

9/12/2008  
(DATE)

Legend

- X 10/7/72 Pass
- 4/15/75 Pass
- ① 4/25/75 Pass
- 14 8/8/08 Pass
- 8' to cont
- 10' to slide
- Proposed Addition 2008

PERC Certification Plan		APPROVED BY: owner	
SCALE: 1" = 100'	DATE: 8-8-08		Martin Madden
11524 Crow's Nest Rd		DRAWING NUMBER	
PC 529499			

