



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AD 520028

AGENCY REVIEW: _____

DATE 1/13/2004

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) PATRICIA ANN BAHR, TRUSTEE

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS 2901 BOSTON ST APT 609 BALTIMORE MD 21224-1891
STREET CITY/TOWN STATE ZIP

APPLICANT KNUDSEN HOMES

DAYTIME PHONE 410-465-2222 CELL _____ FAX 410-465-2231

MAILING ADDRESS 8455 BALTIMORE NATIONAL PIKE ELLICOTT CITY MD 21043
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME WOODMARK LOT NO. 9

PROPERTY ADDRESS MOUNT ALBERT RD ELLICOTT CITY MD 21042
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 22 GRID 12 PARCEL(S) 168 PROPOSED LOT SIZE 2.2 AC

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.

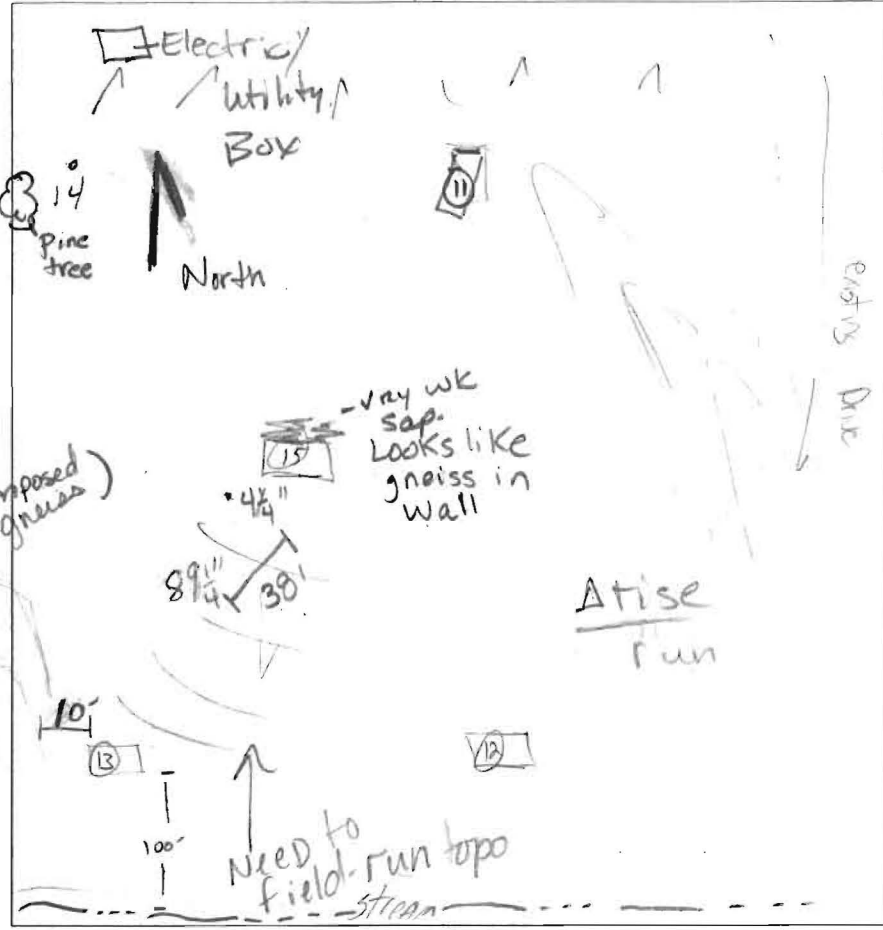
SIGNATURE OF APPLICANT

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 520028

14th Albert Rd

(13)



(11)
Strong brn
Some mica
Loamy Sand
(fine)
3'
org
14 brn
(wk platy
Structured
SAND
med gr.)
6'
Small
packet
of wk
saprolite
15-200/10
12' Bottom

(14)
DK brn
choc.
top soil
4"
- wk
saprolite
DK brn
org brn
white
mica
med
gr sand
wk saprolite
(decmp. gneiss)
11 1/2'
Bottom

(15)
strong rd
brn
blacky z,
angular
frag @ 3'
@ 4' v. fr.
saprolite
chunk
(boulder
size)
Trace
Rock
Bottom 12'

Brn
SCL Loam
5 1/2 - 6'
Loamy
Sand
12' water puddle
(12)
Brn
micac
SLoam
layer small
ex-frag
5'
No Mottles
Ltn
micac
Sand
12' Bottom

| DATE | TEST # | DEPTH | START | BREAK 1" DROP | STOP 2" DROP | TIME OF 2ND INCH | P/F/H |
|--|--------|----------|-------|------------------|-----------------|---------------------|-------|
| 3/11/04 | (11) | 2' 11" M | 9:57 | 10:02 | 10:10 | 8 | P |
| | (14) | 3 1/2' M | 10:07 | 10:10 | 10:14 | 4 | P |
| | (15) | 7' M | 10:23 | 10:30 | 10:46 | 16 | P |
| | (12) | 3' | 10:32 | 10:36 | 10:41 | 5 min | P |
| | (13) | 7 1/2' | 10:45 | 10:59 | 11:25 | 26 min | P |
| Field ran topo ≈ 190° slope | | | | | | | |
| Holes 11-14 lighter color than lower holes | | | | | | | |

REMARKS Stakes slightly adj No Mottles in lower holes
 SANITARIAN KN / KB BACKHOE SKippy OTHERS Builder
 TEST HOLES USED IN SDA _____ AVG. PERC TIME 8-10 SQ. FT/BR 210
 TRENCH WIDTH 3 INLET DEPTH 3 MAX. BOT DEPTH 5 EFFECTIVE SW 2'

March 12, 2004

Knudsen Homes
8455 Baltimore National Pike
Ellicott City, MD 21043

RE: **Percolation Test Results**
Application: A520028
Property ID: Subdiv: Woodmark, Lot 9
Tax Map: 22 Parcel: 168

Dear Sir or Madam:

Percolation testing was conducted March 11, 2004 on the above referenced property. The proposed area passed conventional testing. Due to topographical features, adjustments are needed for the septic disposal area. Such alterations and a copy of the percolation test results are enclosed.

A **licensed surveyor** should submit a Percolation Certification Plan showing the following additional information and changes to the percolation test plan:

- actual locations and elevations of all excavated test holes (holes were adjusted per Fyock Septic's discretion due to contour and swales)
- calculate septic reserve area's **total square footage after adjustment to SDA** (see enclosed copy)
- proposed house site with an **adjustment to the driveway location**
- Re-label "drainage easement" as a stream
- field matched contour lines at **2-foot** intervals
- location of all existing wells and septic systems within 100 feet of all property boundaries
- Adjust in the 'General Notes' statement #2 replacing "variances for encroachment" to say "adjustments", and remove note #4
- Add a 'general note' to state the septic easement shall be protected by an effective barrier to prevent driveway grading or encroachment to the septic disposal area during building construction

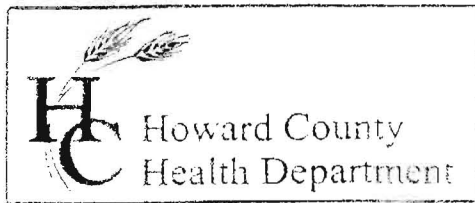
Percolation certification signature is contingent upon the above criteria being met. If you have any questions regarding this matter, please contact me at the address below or by calling (410) 313-1771. Thank you in advance for your time and cooperation.

Sincerely,



Kacie Noonan, R.S.
Water and Sewerage Program

Enclosures
Cc: file



3525 H Ellicott Mills Drive, Ellicott City, MD 21043
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

02/02/04

Knudson Homes
8455 Baltimore National Pike
Ellicott City, MD 21043

Re: Percolation Test Plan Proposal
Mount Albert Road
Tax Map: 22 Parcel: 168

Dear Ms. Bell:

This office received the above referenced plan for preliminary review prior to percolation testing. A percolation test date cannot be scheduled due to changes necessary for the percolation test plan proposal. On February 2, 2004 a site inspection was conducted, and identified the following errors:

- Swale identified on plan appears broader and more prominent, and further west than shown on plan
- Although topographical features appear correct for the adjacent lots, the northernmost side of the property is not shown correctly
- The "drainage easement" is actually a stream with steep, eroded banks and must be labeled as a stream

Due to the existing swale running through the proposed septic easement and the proposed septic disposal area not meeting the 100' setback requirement from the stream, the plan is not approvable at this time. Further progress and review is dependent upon the submittal of an approvable percolation testing plan meeting the COMAR regulations.

Thank you in advance for your cooperation regarding this important matter. If you have any questions or concerns, please contact me at the address below or by calling (410) 313-1771.


Sincerely,

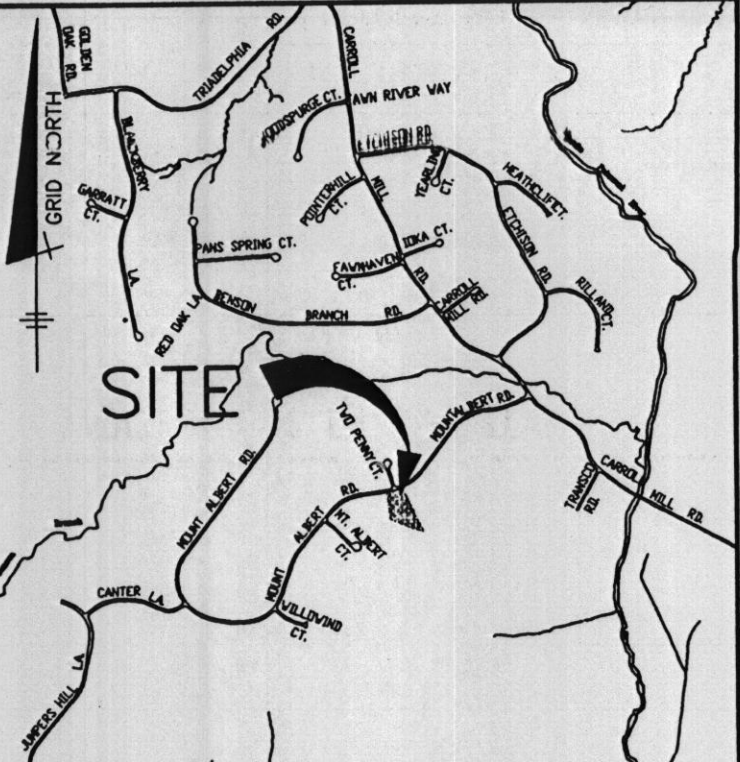
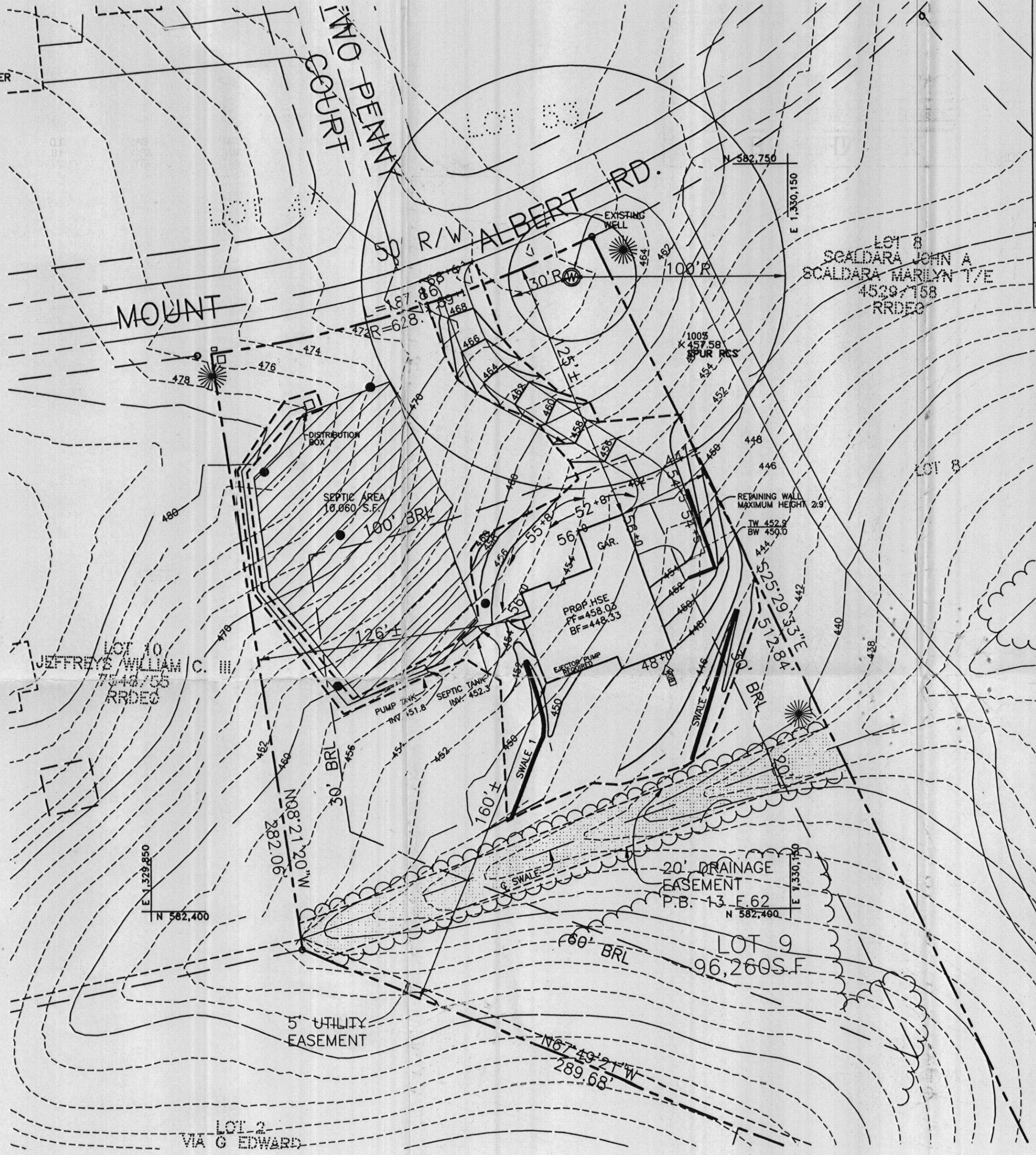
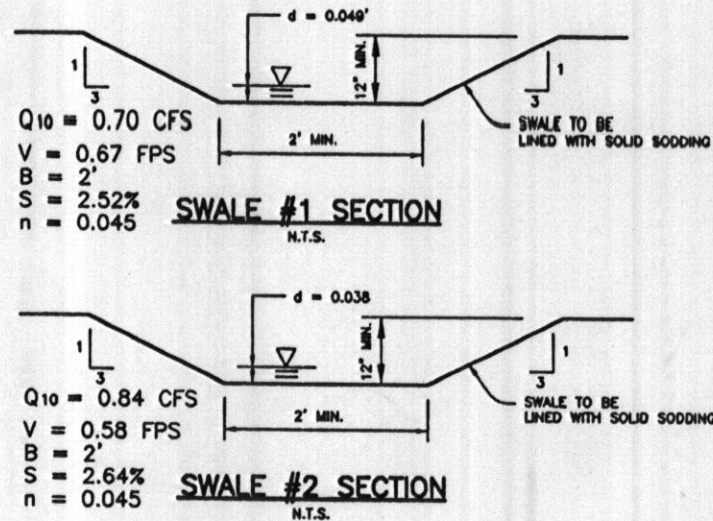
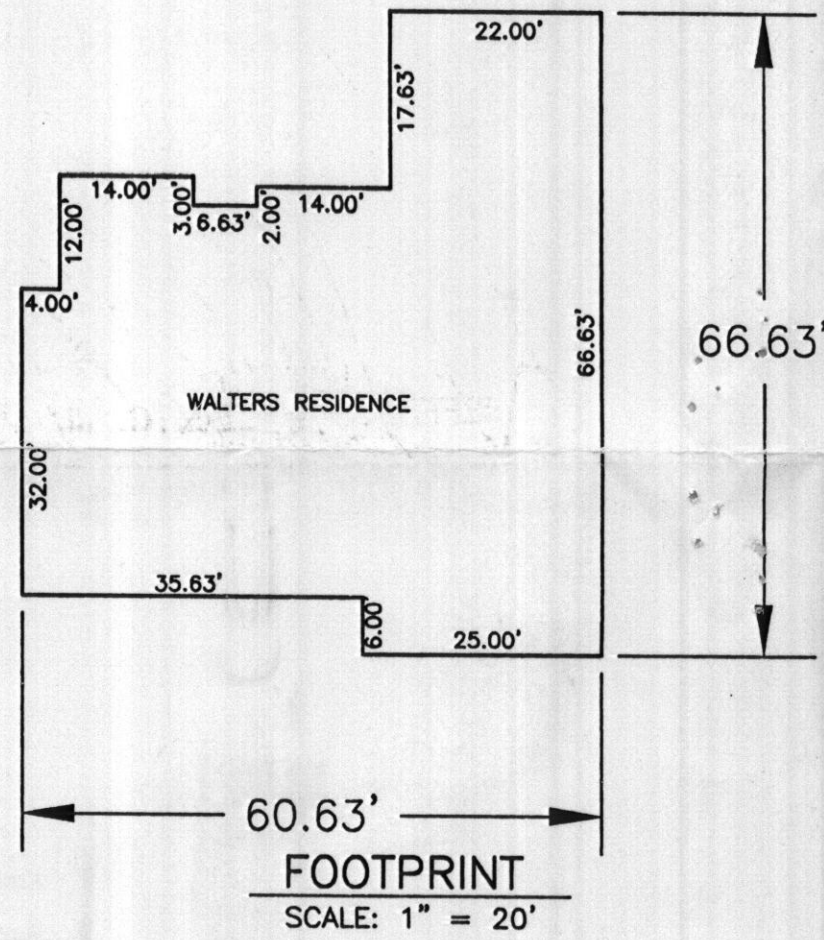
A handwritten signature in cursive script that reads 'Kacie Noonan'.

Kacie Noonan, R.S.

KN
Cc: Benchmark Engineering
Ms. Bahr/ Trustee
file

NOTES:

1. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF ENVIRONMENT.
2.  THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENT INTO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE NECESSARY.
3. TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD-RUN TOPOGRAPHIC SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. AROUND MARCH 18, 2004 AND SUPPLEMENTED WITH TOPOGRAPHY PURCHASED FROM HOWARD COUNTY, GEOGRAPHICAL INFORMATION SYSTEMS. CONTOUR INTERVAL IS TWO FOOT.
4. EXACT LENGTH OF SEPTIC TRENCHES ARE BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF PRECONSTRUCTION INSPECTION.
5. SPOIL FROM THE TRENCHING OF THE SEPTIC AREA IS TO BE PLACED ON THE UPHILL SIDE OF THE EXCAVATION FOR EACH INDIVIDUAL LOT.
6. ALL SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS SITE SHALL COMPLY WITH 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND SHALL BE AS SHOWN ON THIS PLAN.
7. THE EXISTING WELL (TAG NO. HO-94-3963) SHOWN ON THIS PLAN HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC. IN JANUARY, 2005 AND IS ACCURATELY SHOWN.
8. STORMWATER MANAGEMENT QUANTITY CONTROL HAS NOT BEEN PROVIDED BASED ON RUN-OFF LESS THAN 2 CFS. STORMWATER MANAGEMENT QUALITY CONTROL SHALL BE PROVIDED VIA GRASS CHANNEL CREDIT AS SHOWN ON THIS PLAN AND COMPUTED IN THE SWM REPORT.
9. TOTAL AREA DISTURBED = 21,532 SF (0.49 AC)

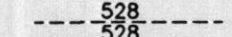
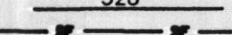

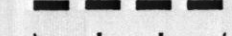
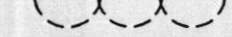

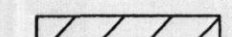




SEPTIC INFORMATION CHART

| | |
|-------------------------|-------|
| INV. OUT OF HOUSE | 452.5 |
| INV. AT PUMP TANK | 451.8 |
| GROUND OVER PUMP | 456.0 |
| INV. IN SEPTIC TANK | 452.3 |
| INV. OUT SEPTIC TANK | 452.0 |
| TOP OF SEPTIC TANK | 453.0 |
| GROUND OVER SEPTIC TANK | 456.0 |
| INV. IN DIST. BOX | 476.5 |
| GROUND OVER BOX | 478.0 |

PLAN
SCALE: 1" = 40'

LEGEND

| | |
|-------------------------------|---|
| EXISTING CONTOUR |  |
| PROPOSED CONTOUR |  |
| PROP. SILT FENCE |  |
| PROP. SUPER SILT FENCE |  |
| LIMIT OF DISTURBANCE |  |
| EX. TREE LINE |  |
| PROP. TREE LINE |  |
| EX. SEPTIC RESERVE AREA |  |
| PROP. EROSION CONTROL MATTING |  |

BENCHMARK ENGINEERING, INC.
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS

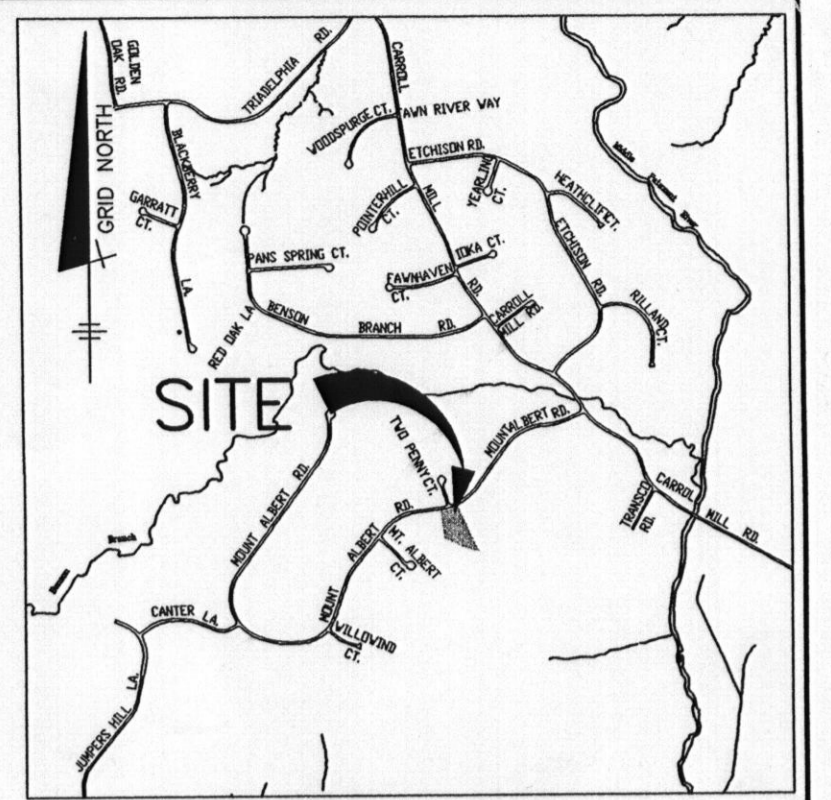
8480 BALTIMORE NATIONAL PIKE ▲ SUITE 418
ELLCOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 FAX: 410-465-6644

BUILDER:
C. KNUDSEN BUILDERS
8455 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MD 21043

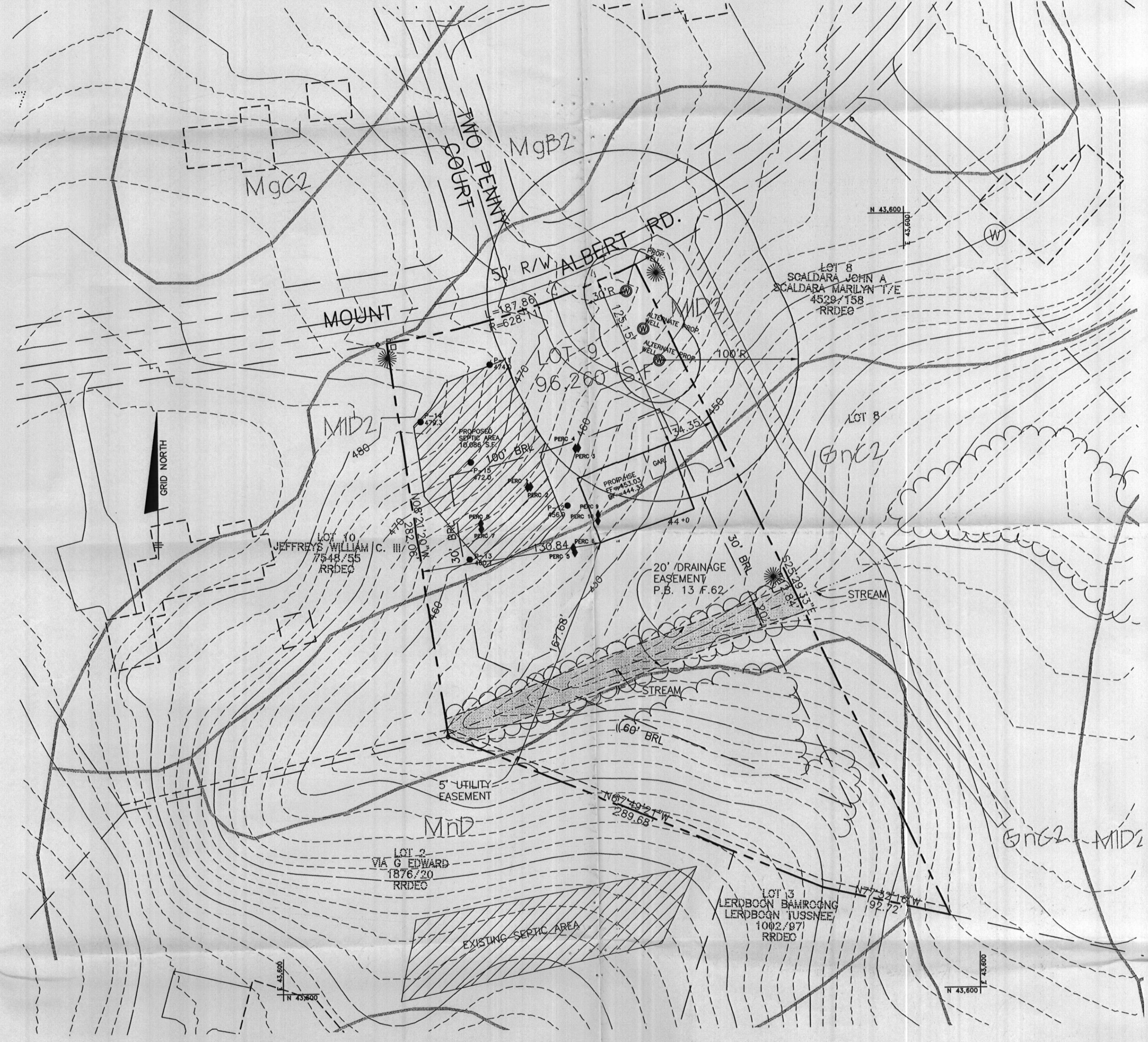
| | | |
|--------------------|--|-------------------------|
| PROJECT: | WOODMARK PROPERTY | |
| | LOT 9 PB 13, FOLIO 62 | |
| LOCATION: | TAX MAP: 22, GRID: 12 PARCEL: 168 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND | |
| TITLE: | PLOT PLAN | |
| HOUSE TYPE: | WALTERS RESIDENCE | |
| DATE: | JANUARY 2005 MARCH, 2006 | PROJECT NO. 1713 |
| SCALE: | AS SHOWN | DRAWING 1 OF 1 |

LEGEND

- 470 ——— EXISTING CONTOURS
- ~~~~~ EXISTING TREELINE
- SOILS DELINEATION LINE
- ▨ PROPOSED SEPTIC AREA
- ⊙ PROPOSED WELL AREA
- PERC 1
422.7 FIELD SHOT
PERC PASSED LOCATION
MARCH 2004 A 520028
- ◆ PERC 7
475.79 FIELD SHOT
PERC PREVIOUSLY TESTED
JULY 1967 A 12929



VICINITY MAP
SCALE: 1" = 2000'



PLAN VIEW
SCALE: 1" = 50'

~GENERAL NOTES~

- 1.) THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- 2.) THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE REQUIRED.
- 3.) UNLESS OTHERWISE SHOWN NO WELLS OR SEWERAGE EASEMENTS ARE LOCATED WITHIN 100 FEET OF THE PROPERTY.
- 4.) TOPOGRAPHY SHOWN HEREON WAS FIELD RUN BY BENCHMARK ENGINEERING INC., ON OR ABOUT MARCH 18, 2004 AND SUPPLEMENTED WITH TOPOGRAPHY PURCHASED FROM HOWARD COUNTY, GEOGRAPHICAL INFORMATION SYSTEMS BY BENCHMARK ENGINEERING INC.
- 5.) THE SEPTIC EASEMENT SHALL BE PROTECTED BY AN EFFECTIVE BARRIER TO PREVENT DRIVEWAY GRADING OR ENCROACHMENT TO THE SEPTIC DISPOSAL AREA DURING BUILDING CONSTRUCTION.
- 6.) WELL TO BE DRILLED PRIOR TO BUILDING PERMIT SIGNATURE.

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.
Donald Mason 4/13/04
DONALD A. MASON P.E. NO. 21443
PLAN PREPARER

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
[Signature] 4/16/04
HOWARD COUNTY HEALTH OFFICER DATE

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE & SUITE 418
ELLICOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 & FAX: 410-465-8644
EMAIL: Benchmark@coils.com

| | | | |
|--|------------------|---|-----------------|
| BUILDER: | | PROJECT: WOODMARK PROPERTY | |
| C. KNUDSEN BUILDERS 8455 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21043 | | LOT 9 PB 13, FOLIO 62 PARCEL: 168 R 520028 | |
| LOCATION: | | TAX MAP: 22, GRID: 12 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND | |
| TITLE: PERCOLATION CERTIFICATION PLAN | | | |
| DATE: MARCH, 2004 | PROJECT NO. 1713 | | |
| DES: DAM | DRAFT: EDD | CHECK: DAM | SCALE: 1" = 50' |
| | | SHEET 1 OF 1 | |

| MAP SYMBOL | SOIL GROUP | SOIL TYPE |
|------------|------------|--|
| GnC2 | C* | GLENVILLE SILT LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED |
| MgB2 | B | MANOR GRAVELY LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED |
| MID2 | B | MANOR LOAM, 15 TO 25 PERCENT SLOPES, MODERATELY ERODED |
| MID3 | B | MANOR LOAM, 15 TO 25 PERCENT SLOPES, SEVERALLY ERODED |
| MnD | B | MANOR VERY STONY LOAM, 3 TO 25 SLOPES |

* INDICATES HYDRIC SOILS
TAKEN FROM SOIL SURVEY, HOWARD COUNTY, MARYLAND (ISSUED JULY 1968) MAP NO. 14