

FR  
9/15/00  
10:00

# APPLICATION

PERCOLATION TESTING

A 5/4 201A

P \_\_\_\_\_

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

Proposal- subdivision  
in 3 lots, existing  
house assumed to  
remain  
(require 10KTA SDA  
for ex house)  
DD

DISTRICT 4th

DATE 8/27/2000

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 ANGUS GROSS

ADDRESS # 13920 FORSYTHE ROAD PHONE N/A  
SYNEVILLE, MD. 21784

AGENT OR PROSPECTIVE BUYER DAN RICHER

ADDRESS # 13898 FORSYTHE ROAD PHONE 443-463-4777  
SYNEVILLE, MD. 21784

PROPERTY LOCATION:

SUBDIVISION THE GROSS PROPERTY LOT NO. X become lot 3 on final Plat

ROAD AND DESCRIPTION # <sup>13920</sup> ~~13898~~ FORSYTHE ROAD

TAX MAP 9 PARCEL # 69 GRID # 1

SIZE OF LOT 1.13 AC± TYPE BLDG. SINGLE FAMILY DWELLING  
(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.

Angus Gross  
(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 \_\_\_\_\_

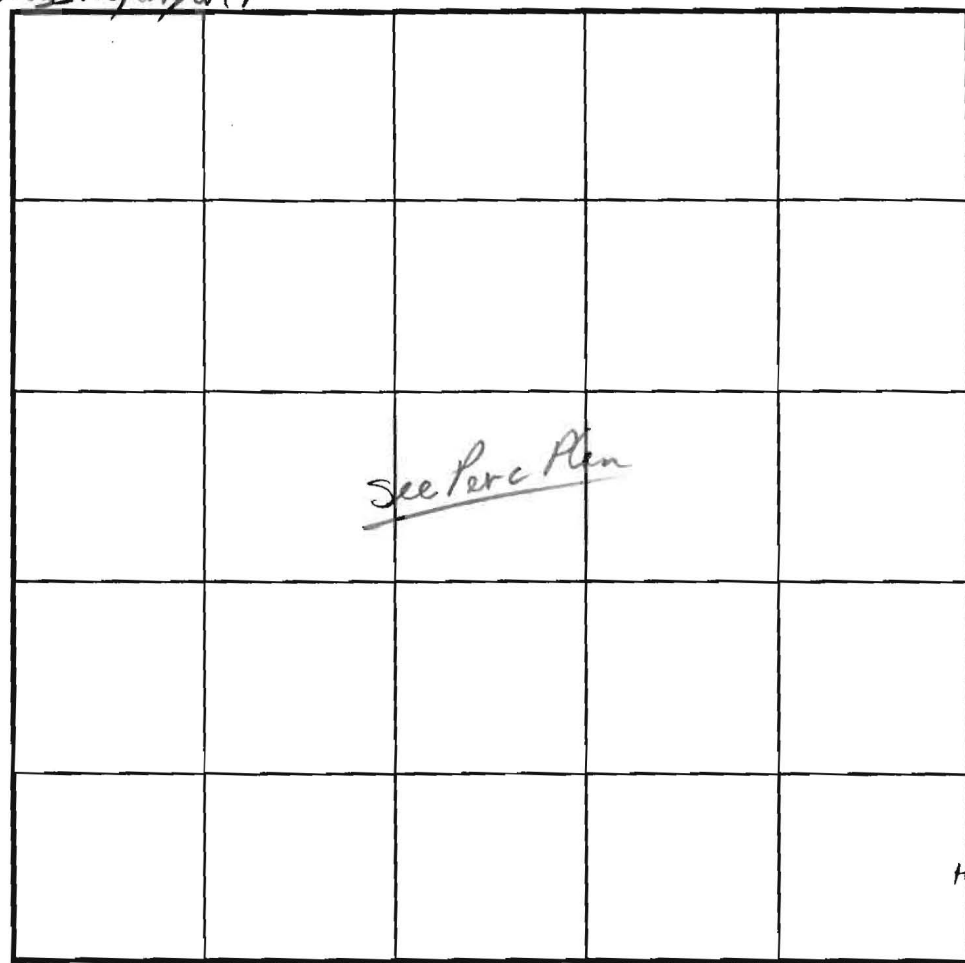
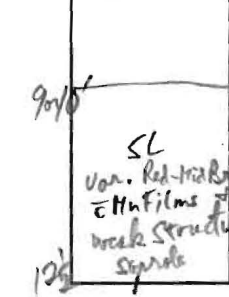
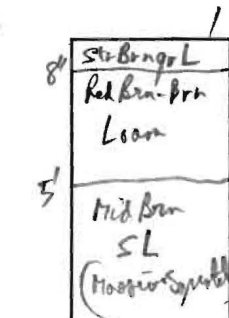
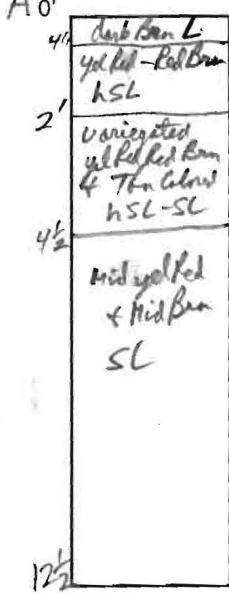
SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

# THIS IS NOT A PERMIT

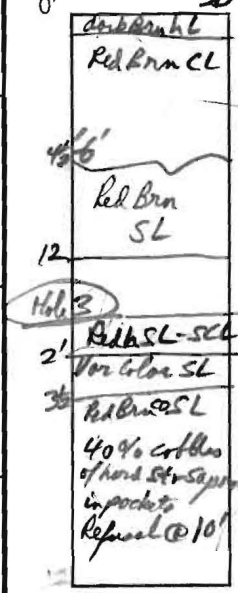
A514201 A  
COUNTY #

Gross Property Lot 1

SOIL PROFILE



SOIL PROFILE 3B



2B similar to #1  
Test water seepage @ 10ft  
& some mottled tan & dark brn  
on lot 2 hole  
Hold 11  
4' Mid Brn SL  
13'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
9/15/00	A	12 1/2' 32"	10:10:20	11:11:33	11:11:33	11:14:00	2 1/2 min
		7'	11:11:20	11:13:30	11:13:30	11:17:40	4 min
	1	12 1/2' 2 1/2'	11:20:40	11:24:20	11:24:20	11:30:00	5 1/2 min
2" higher elevation	2A	11 1/2' 2 1/2'	11:33:00	11:40:00	11:40	12:04	24 min
	2B	11' water seepage @ 10', water level @ 11'					Hold for wet season Test (on design shallow)
	11	13' 2 1/2'	1:54:40	1:59:40	1:59:40	2:07:30	8 min
	3	10' Refusal pockets of cobbles & hard structured spherulite					(Do not use)
	3B	12' Visual only (day day) loam to 4-6ft					OK

REMARKS \_\_\_\_\_  
 TYPE OF SOIL Medium / 6 bleached sandy loam - loam.  
 TESTED BY R. P. Kelly ALSO PRESENT Oliver K. Kithamony, R. B. Oles  
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 9 min TRENCH WIDTH 3'  
 INLET DEPTH 1 1/2 or 2' MAXIMUM BOTTOM DEPTH 5 SQ. FT./BEDROOM -180 installed system  
Engineered also FCC - Hank Rolfe \$210 for lower area New  
Test 3B on 2

POND  
W.E.=489

Perc Plan

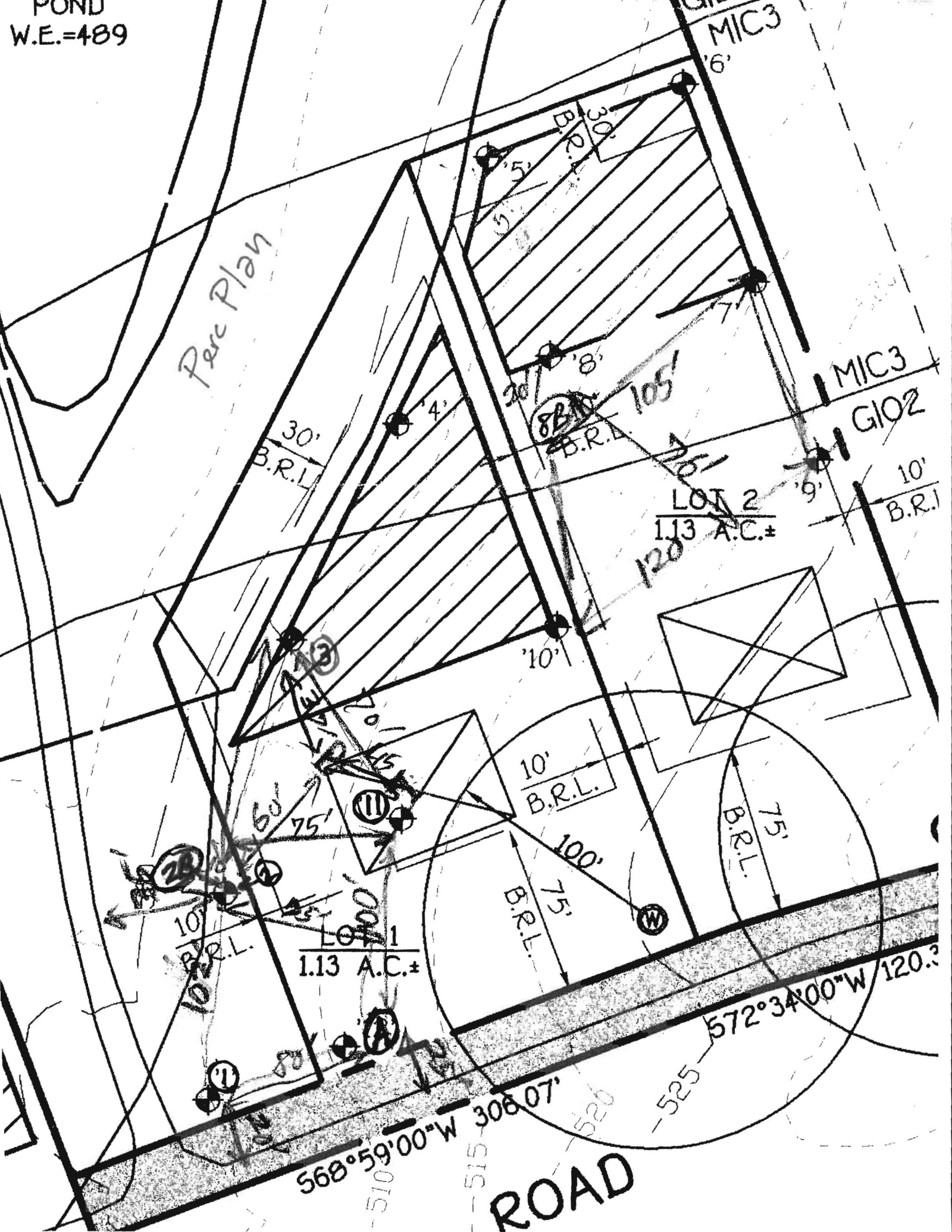
MIC3  
6'

MIC3  
GIO2

LOT 2  
1.13 A.C.±

LOT 1  
1.13 A.C.±

ROAD



30'  
B.R.L.

30'  
B.R.L.

10'  
B.R.L.

10'  
B.R.L.

75'  
B.R.L.

10'  
B.R.L.

75'  
B.R.L.

568°59'00"W 308.07'

572°34'00"W 120.3'

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515

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POND  
W.E.=489

Perc Plan

MIC3  
6'

MIC3  
GIO2

LOT 2  
1.13 A.C.±

LOT 1  
1.13 A.C.±

ROAD

30'  
B.R.L.

30'  
B.R.L.

10'  
B.R.L.

10'  
B.R.L.

75'  
B.R.L.

10'  
B.R.L.

75'  
B.R.L.

568°59'00"W 308.07'

572°34'00"W 120.3'

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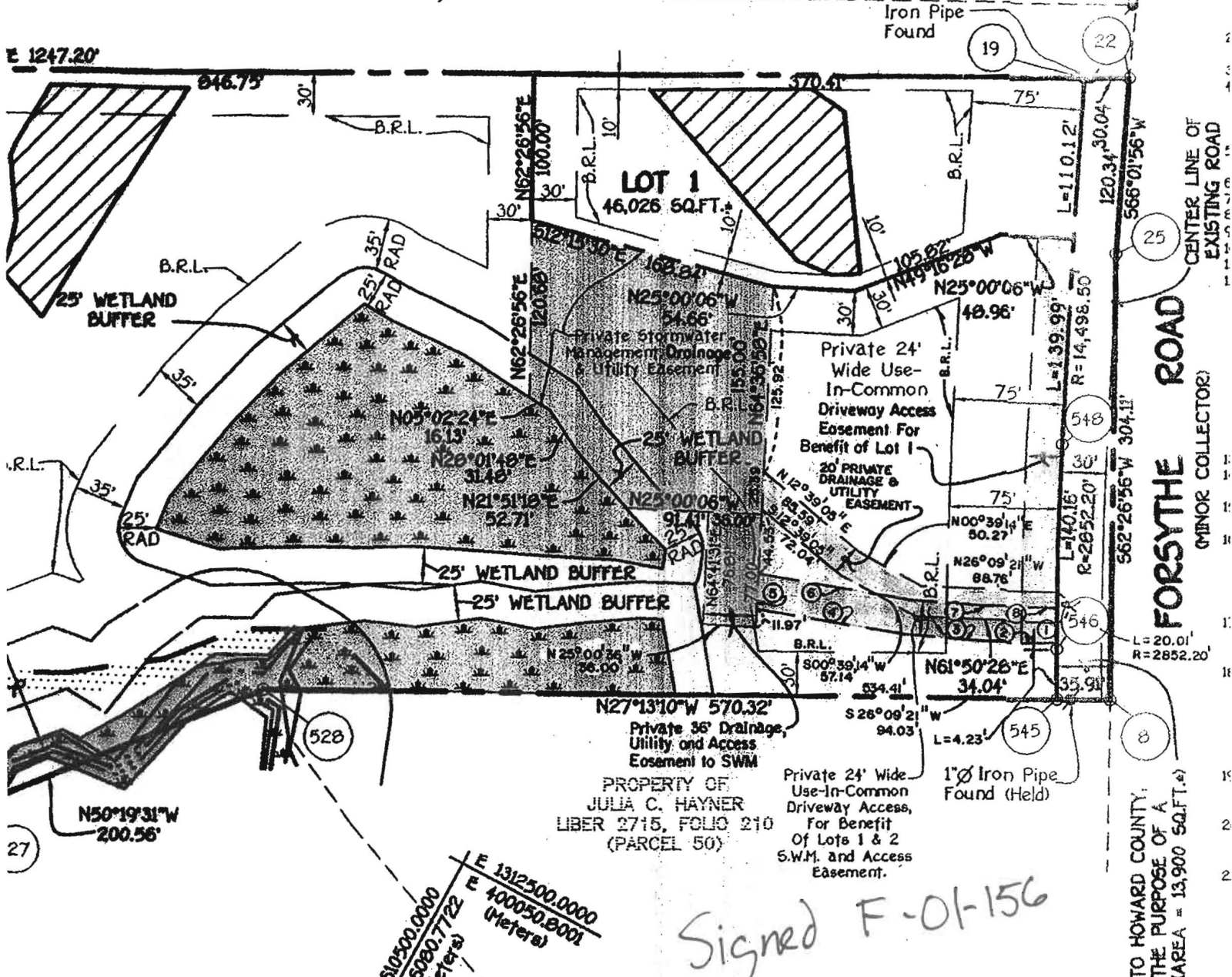
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Rebar And Cap (TSA) Found  
 Rebar And Cap (L.S. #10389) Found  
 Howard County  
 LOT 2  
 RICKER PROPERTY  
 PLAT No. 7894  
 Rebar And Cap (TSA) Found



Signed F-01-156

**GENERAL NOTES CONTINUED:**

24. No Clearing, Grading Or Construction Is Permitted Within The Required Wetlands, Streams, Or Their Buffer And Forest Conservation Easement Areas.
25. Property Subject to WP02-79. A Waiver Request From Section 16.144(D) of the Ho. Co. Subdivision Regulations to Reactivate F01-156, which was Voided on Nov. 20, 2001. This Waiver was Approved on March 27, 2002.
26. "This Plan Is Subject To The Fourth Edition Of The Subdivision And Land Development Regulations And To The Zoning Regulations as Amended January 8, 2002 By Council Bill 50-2001."
27. Articles Of Incorporation Of Gross Property Homeowner's Association, Inc. Filed With Maryland State Department Of Assessments And Taxation On Dec. 16, 2002 as Acct. No. D-07133853.
28. Maintenance Obligations For The Private Stormwater Management Facility Is Provided By The Gross Property Homeowner's Association, Inc.

**DEVELOPER**  
**DAN RICKER**  
 3898 FORSYTHE ROAD  
 ESVILLE, MARYLAND 21784

**OWNER**  
**GROSS AND ADRIENNE R. GROSS**  
 3920 FORSYTHE ROAD  
 ELLE, MARYLAND 21784-5813

**SURVEYOR'S CERTIFICATE**

I Herby Certify That The Final Plat Shown Hereon Is Correct; That It Is A Subdivision Of All Of The Lands Conveyed By James Eldred Zuck And Effie Zuck, His Wife, To Angus Roy Gross, III And Adrienne R. Gross, His Wife, By Deed Dated February 9, 1973 And Recorded Among The Land Records Of Howard County, Maryland In Liber No. 624 At Folio 671, And That All Monuments Are Place Or Will Be In Place Prior To Acceptance Of The Streets In The Subdivision By Howard County, Maryland As Shown, In Accordance With The

nd Described Hereon, Herby Adopt This Plan Of  
 partment Of Planning And Zoning, Establish The  
 s Successors And Assigns: (1) The Right To Lay,  
 s And Services In And Under All Roads And  
 Right To Require Dedication For Public Use The  
 cable And For Good And Other Valuable  
 The Fee Simple Title To The Beds Of The



## Subdivision Plan Review

### Perc Certification Plan

Once the testing has been performed and the results have been mailed out, the next step in the subdivision process is the submittal of a Perc Certification Plan. This Plan is a Health Department requirement and is not required by the Department of Planning and Zoning (DPZ).

Additional information may be required due to site specific characteristics or concerns.

The reviewer's main responsibility in reviewing a proposed subdivision is to be sure each proposed lot has provided adequate well and on-site sewage disposal does not affect surrounding properties and meets all required minimum setbacks See **Appendix**). The second phase in the review of the Plan to confirm that all the appropriate "language" has been included on the Plan. The following items must be included on the plan:

- (1) Identification of the property, road, street address if applicable, tax map page, parcel number, subdivision name (if appropriate); add purpose statement as appropriate (re-subdivision, SDA adjustment, etc.).
- (2) Name, address and telephone number of the owner(s), developer(s) and the plan author(s).
- (3) The date the plan was drawn, the plan scale (1:30 – 1:100), a scaled vicinity map and if not a Preliminary Plan, the PC # (percolation test fee receipt number, referenced in the Howard County Health Department correspondence).
- (4) Health Officer Signature block conditioned with "Approved for private water and private sewerage systems."
- (5) Existing and any proposed property lines.
- (6) All excavated test holes observed by Howard County Health Department, identified according to the original percolation testing proposal, or as otherwise identified at the time of testing; staked holes not dug should not be shown.
- (7) Actual surveyed elevation (not based on County Aerial topography) of each test hole.
- (8) Legend symbols to distinguish holes, which passed, failed, or were held for re-review (e.g., for wet season).
- (9) Legend symbols to distinguish between existing holes previously documented and new holes.
- (10) Proposed minimum 10,000 sq. ft. Sewage Disposal Area for each lot.
- (11) Field verified/field run topography at two-foot intervals and statement certifying such. One-foot intervals are required for mound systems and systems with pipe depth less than two feet.
- (12) Existing structures, wells, septic systems and sewage easements (list use and intent designated for each).

- (13) Three (3) proposed well sites or 1500 sq. ft. of well zone with elliptical radius of 100' around the entire set/well zone for each lot. (**Applicable to proposed sub-division only**)
- (14) Certification that Groundwater Appropriations Permit will be issued and all wells will be drilled prior to plat.
- (15) Identification of streams, ponds, wetlands, floodplains, 25% + slopes, soil types and soil type boundaries.
- (16) Suitable house site (55' x 70') and driveway with Building Restriction lines as determined by other County agencies.
- (17) All existing wells, septic systems and sewage disposal easements within 100 feet of property boundaries and a note stating such. All existing and proposed wells, septic systems and sewage disposal systems that are located within two hundred feet down gradient of existing or proposed septic systems. The engineer is obligated to find the location of all surrounding wells and septic systems. **Note, revised perc certification plans that revise existing sewage disposal areas are only available from the Health Department (not recorded in land records or kept with the Department of Planning and Zoning), so pay close attention to existing Sewage disposal areas that are included on the plan.**
- (18) Professional seal or signed statement that "I certify that the information shown heron is based on field work performed by me or under my direct supervision, and is correct, to the best of my knowledge and belief."
- (19) Include the following statement. "Any changes to a private sewage easement shall require a revised Perc Certification Plan."
- (20) One of the following statements shall be included on the Perc Certification Plan:

*MDE Sewage easement statement for lots created after March 1972:*

This area designates a private sewage easement of at least 10,000 square feet as required by the Maryland Department of Environment for individual sewage disposal. Improvements of any nature in this area 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.

**Or**

*MDE Sewage disposal area statement for lots created before March 1972:*

This area designates a private SEWAGE DISPOSAL AREA as required by the Maryland Department of Environment for individual sewage disposal. Improvements of any nature in this

- (13) Three (3) proposed well sites or 1500 sq. ft. of well zone with elliptical radius of 100' around the entire set/well zone for each lot. (**Applicable to proposed sub-division only**)
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**Or**

*MDE Sewage disposal area statement for lots created before March 1972:*

This area designates a private SEWAGE DISPOSAL AREA as required by the Maryland Department of Environment for individual sewage disposal. Improvements of any nature in this

area are restricted. This SEWAGE DISPOSAL AREA 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 DISPOSAL AREA

**(Note: If adjustment of previously approved SDA, show area gained, area lost, and final SDA; calculate square footage for each; and shade any area to be abandoned differently than any new SDA to be established.**

- (21) Certification of compliance with MDE ownership width requirements. The lot(s) shown hereon complies/comply with the minimum ownership width and lot area as required by the Maryland Department of Environment **(Applicable to proposed subdivisions and retests of lots created after November 1985, only).**

EXAMPLE ITEMS FOR PERCOLATION CERTIFICATION/PRELIMINARY  
PLAN REQUIREMENTS

Health Officer Signature Block Examples

*For standard lots with Private Well/Septic Systems:*

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF HOWARD COUNTY	
_____	_____
Howard County Health Officer	Date



*For lots with public water and private sewerage:*

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE, ETC.....

*For lots with private wells and public sewerage:*

APPROVED FOR PRIVATE WATER AND PUBLIC SEWERAGE, ETC.....

For record plats where no water/sewerage facilities of any type are existing or proposed:

REVIEWED; NOT FOR CONSTRUCTION, NO FACILITIES PROPOSED, ETC.....

Well site/well zone examples – 3 different drawings

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MDE Sewage easement statement for lots created after March 1972:



This area designates a private sewage easement of at least 10,000 square feet as required by the Maryland Department of Environment for individual sewage disposal. Improvements of any nature in this area 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.

MDE Sewage disposal area statement for lots created before March 1972:

This area designates a private sewage DISPOSAL AREA as required by the Maryland Department of Environment for individual sewage disposal. Improvements of any nature in this area are restricted. This SEWAGE DISPOSAL AREA 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 DISPOSAL AREA.

Certification of compliance with MDE ownership width and lot area requirements:



The lot(s) shown hereon complies/comply with the minimum ownership width and lot area as required by the Maryland Department of Environment

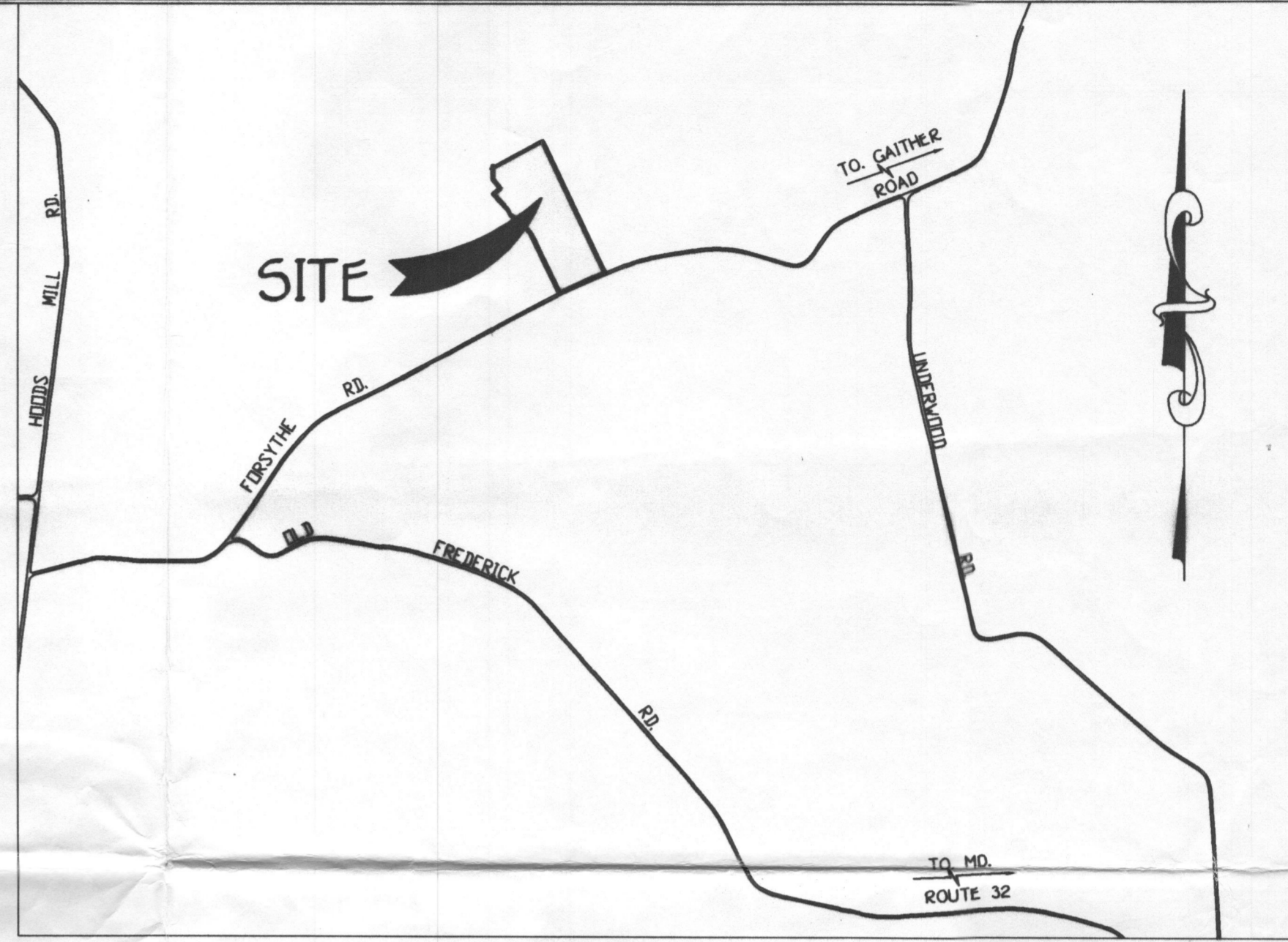


SOILS LEGEND		
SOIL	NAME	CLASS
* Co	Codorus silt loam	C
Glb2	Gleneta loam, 3 to 8 percent slopes, moderately eroded	B
Glc2	Gleneta loam, 8 to 15 percent slopes, moderately eroded	B
* Grb2	Glenville silt loam, 3 to 8 percent slopes, moderately eroded	C
Mic3	Minor loam, 8 to 15 percent slopes, severely eroded	B
Mb3	Minor loam, 15 to 25 percent slopes, severely eroded	B
Gld2	Gleneta loam, 15 to 25 percent slopes, moderately eroded	B

NOTES:  
 \* Hydric soils and/or contains hydric inclusions  
 \*\* May contain hydric inclusions  
 † Generally only within 100-year floodplain areas

I Certify That The Locations Shown Hereon Are Based On Field Locations Done Under My Direct Supervision, And Are Correct, To The Best Of My Professional Knowledge And Belief.  
 Mark L. Ricker 12/31/2001  
 Professional Land Surveyor Or Property Line Surveyor Date

- LEGEND**
- - - - - EXISTING 2' CONTOURS
  - - - - - EXISTING 10' CONTOURS
  - - - - - EXISTING TREE LINE
  - SOIL LINES AND TYPES
  - DENOTES PROPOSED WELL
  - DENOTES FAILED PERC
  - DENOTES PASSED PERC
  - DENOTES PROPOSED PERC
  - DENOTES PROPOSED HOUSE
  - DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE



VICINITY MAP  
 SCALE: 1"=1200'

**GENERAL NOTES:**

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET 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 SEWERAGE IS AVAILABLE. THESE EASEMENTS 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 SHALL NOT BE NECESSARY.
2. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
3. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
4. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
5. ALL WELLS SHALL BE DRILLED PRIOR TO FINAL PLAT RECORDATION. IT IS THE DEVELOPER RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
6. TOPOGRAPHY SHOWN IS A COMBINATION OF HOWARD COUNTY GIS TOPOGRAPHY AT 5' CONTOUR INTERVAL INTERPOLATED FOR 2' CONTOUR INTERVAL AND FIELD RUN TOPO DATED AUGUST 2000.
7. BOUNDARY OUTLINE BASED ON FIELD RUN BOUNDARY PROVIDED BY FISHER, COLLINS & CARTER, INC. ON AUGUST, 2000.
8. THIS PLAN REFERENCES THE FOLLOWING FILE NUMBERS LOT #1 AND LOT #2 (F-01-156) LOT #3 AND PRESERVATION PARCEL "A" (F-02-16)
9. DEVELOPER:  
 MR. DAN RICKER  
 13899 FORSYTHE ROAD  
 SYKESVILLE, MARYLAND 21784
10. OWNER:  
 MR. & MRS. ANGUS GROSS  
 13920 FORSYTHE ROAD  
 SYKESVILLE, MARYLAND 21784

**FISHER, COLLINS & CARTER, INC.**  
 THE ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTURIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLETTT CITY, MARYLAND 21842  
 4100 461 - 2895

PLAN  
 SCALE 1"=100'

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,  
 HOWARD COUNTY HEALTH DEPARTMENT.  
 Penny Brantley, M.D., P.E.  
 COUNTY HEALTH OFFICER  
 1-7-02  
 DATE

PERCOLATION CERTIFICATION PLAN WITH  
**THE GROSS PROPERTY** (Forsythe Rd)  
 LOTS 1, 3 & PRESERVATION PARCEL 'A'  
 TAX MAP No. 9 ZONED: RC-DEO PARCEL 69  
 FORTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: JUNE 28, 2001  
 REVISED: DECEMBER 31, 2001

K:\Drawings\330725 Gross Property\FERC DRAWING\330725 Percolation Plan.dwg, 01/02/02 10:07:08 AM





EXISTING  
STREAM BUFFER  
PLAT NO.

N41°05'22"W  
124.21'

N50°19'31"W  
200.56'

MID3

GNB2

B  
522.0

31.8

PERC  
FIELD

EXISTING  
HOUSE

B.R.L.

100'

MID3

527°33'04"E  
846.75'

846.75'

MID3  
GNB2

GNB1  
GIB2

GIB1  
M/C3

EXISTING  
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307.720'

30'  
30'  
10'

N 610500  
N 100000.7722  
(Meters)  
E 400050.8001  
(Meters)  
E 1312500  
(Meters)

TAX MAP 8, PARCEL 50  
PROPERTY OF  
JULIA C. HAYNER  
LIBER 2715, FOLIO 210

SIGNED PER CERT

Private 24' Wide Use-In-Common Access Easement For The Benefit Of Lot 3 Preservation Parcel 'A'.  
Maintenance Agreement Recorded Among The Land Records Of Howard County, Maryland

EXISTING PERC FIELD

FORSYTHE ROAD  
(MINOR COLLECTOR)

30' PROPOSED ROAD WIDENING.

