

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

Maura J. Rossman, M.D., Acting Health Officer

APPLICATION FOR PERCOLATION TESTING AND SITE EVALUATION

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME GERBER KNOLL LOT # 1A

PROPERTY ADDRESS 1110 UNDERWOOD ROAD SYKESVILLE 21784
STREET TOWN ZIP

TAX ACCOUNT # _____ TAX MAP 9 GRID _____ PARCEL 80 ZONING DESIGNATION _____

PROPERTY OWNER(S) JASON & HEATHER BOOCKHOLDT

DAYTIME PHONE _____ CELL 240-353-7398 EMAIL jason.boockholdt@yahoo.com

MAILING ADDRESS 1110 UNDERWOOD ROAD SYKESVILLE, MD 21784
STREET CITY, STATE ZIP

APPLICANT JASON BOOCKHOLDT RELATIONSHIP TO OWNER: OWNER

DAYTIME PHONE _____ CELL 240-353-7398 EMAIL jason.boockholdt@yahoo.com

MAILING ADDRESS 1110 UNDERWOOD ROAD SYKESVILLE MD 21784
STREET CITY, STATE ZIP

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

BUILDING:

- RESIDENTIAL WITH 2 EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE
- COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)

PROPERTY:

- SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: _____
- CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
- REPAIR OR REPLACE FAILING OSDS
- UPGRADE EXISTING OSDS - establish SDA for ^{residential} plat + future BP

IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?

- YES
- NO

AS APPLICANT, I UNDERSTAND THE FOLLOWING:

- THIS APPLICATION IS VALID FOR TWO(2) YEARS FROM DATE OF FEE PAYMENT AND APPROVAL IS BASED UPON HEALTH OFFICER SIGNATURE OF A PERC CERTIFICATION PLAN PRIOR TO EXPIRATION OF THIS PERMIT.
- THE APPLICATION FEE IS NON-REFUNDABLE
- THIS APPLICATION MUST BE ACCOMPANIED BY ALL APPLICABLE FEES AND A SUITABLE SITE PLAN IN ORDER TO BE PROCESSED
- THIS IS A PUBLIC DOCUMENT

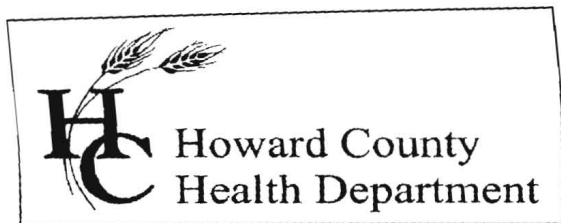
I declare and affirm that to the best of my knowledge, the information contained herein is correct. I declare that I am the owner of the property or duly authorized to make this application on behalf of the owner. I agree to comply with all applicable state and county regulations.

By signature of this application, I hereby grant Howard County Health Department officials the right to enter onto the property for the purpose of inspecting the property as directly related to the requested permit/service.

SIGNATURE OF APPLICANT

07/22/2014

DATE



Bureau of Environmental Health

8930 Stanford Blvd., Columbia, MD 21045
Main: 410-313-1771 | Fax: 410-313-2648
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org

Facebook: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

September 23, 2014

To: Jason Boockholdt, Applicant
jason.boockholdt@yahoo.com

RE: Percolation Test Report; 1110 Underwood Road

Percolation tests were conducted at 1110 Underwood Road (Tax Map 9, Parcel 80) on September 4, 2014. Five test locations, '1' to '5', were staked in the lawn uphill of the residence and adjoining Underwood Road. Tests were conducted at accessible locations at stakes '2' and '3', though the remaining test locations were shifted to locations away from the stakes.

Test location '1' was moved about 40 feet south-southeast to be in an area that is not upgradient of the existing well on the subject property. Location '1' is a PASS, and test location '2' is a PASS. Test location '3' is a FAIL due to very slow percolation rate.

Test location '4' was moved to offset the FAIL at location '3'. A deep profile was observed at location '4', however a (subsurface) rock ledge was encountered at 4-foot depth when excavation of a test shelf was attempted. Location '4A' was added, and the rock ledge was once again encountered when digging toward the east. As a result the entire southeast corner of the proposed SDA is deemed unsuitable for wastewater disposal.

Continuing, '4A' was dug in a northerly direction. Location '4A' PASSES with a nonconventional rate, and Location '4' PASSES as it is assigned the same nonconventional percolation rate as '4A'.

Location '5' was added to define a boundary of suitable soils, and location '6' was added to obtain data for the area between locations '1' and '4A'. Locations '5' and '6' both PASS.

In addition, an attempt was made to evaluate the existing septic system which consists of a septic tank and dry well. The septic tank location was confirmed, however the dry well location was not confirmed. The dry well is believed to be very near to, or under, the driveway. An observation pit was dug at a slightly lower elevation near the assumed location of the dry well. The observation pit was dug to a depth of 17.7 feet, the extent of the backhoes capability. Though the observed profile has 4 feet of 'fill', there is very little rock fragment and the water table is not encountered. Therefore, the dry well is judged to have a 4-foot soil buffer beneath it's bottom which is at about 10 feet below the original surface.

Two percolation test Field Worksheets are enclosed with this letter. Locations of the percolation tests that 'PASS' are used to define the sewage disposal area (SDA)

proposed on the Percolation Certification Plan. The area on the subject property that may be defined as approvable for wastewater disposal is represented by percolation test locations '1', '2', '4' and '4A', '5', and '6'. The percolation test results and suitable area for wastewater discharge are certified by the Approving Authority's signature of the Percolation Certification Plan.

If you have any questions regarding this evaluation or requirements for a Percolation Certification Plan or BAT Site Plan, please contact me by email or by calling (410) 313-2691.

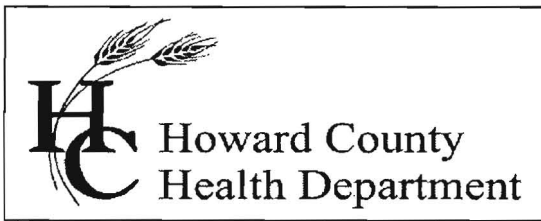
Respectfully,



Robert Bricker, CPSS, REHS/RS, L.E.H.S.
Environmental Sanitarian II
Well and Septic Program

Enclosures: Perc Test Application and 2 Field Worksheets

Copy: file



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-1774 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

Date: November 24, 2014

To: Scott Krell, NTT Associates
scott@nttsurveyors.com

rb

From: Robert Bricker, REHS/R.S., L.E.H.S., Environmental Sanitarian II
Well and Septic Program

RE: 1110 Underwood Road, Percolation Certification Plan comments

The following comments relate to the percolation certification plan submitted November 5.

1. For the location next to the "APPROX. DRY WELL", replace the label with this description: VISUAL OBSERVATION; PROFILE DESCRIBED BY ENV. SAN.
2. Recalculate the trench length and edit ensuing notes accordingly. Use discharge for a 4-bedroom house. See attached trench specifications sheet.
3. Illustrate only an initial system and one replacement system.
4. Illustrate the proposed trenches in the proposed sewage disposal area (SDA) with 10 feet of spacing between them.
5. Check the phrasing/spelling in Note 5.
6. Delete Note 15. The lot was created prior to November 1985.
7. Replace Note 1 with the following Note, and add a rectangle with the symbol for SDA.

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.

8. Add this Note:

THE PROPOSED SDA WILL ACCOMMODATE ONLY TWO CONVENTIONAL DRAINFIELD SYSTEMS THAT HAVE DEEP TRENCHES DESIGNED BY CURRENT STANDARDS.

9. Add this Note:

THE LIMITATIONS OF SOILS PROPERTIES ON (TAX MAP 9) PARCEL 80 ARE SUCH THAT A HOUSE WITH NO MORE THAN FOUR BEDROOMS CAN BE SUPPORTED BY THE DESCRIBED SDA.

Copy: file



HOWARD COUNTY HEALTH DEPARTMENT

54550

DATE
7/22/14

A5

Received From Jason Backholdt

PHONE # 240-353-9398

For Pore, App / 1110 Underwood Rd.

CASH

CHECK

NO. 120197356

Five hundred six & 11/100 Dollars

\$ 506.00

Received By Janetia King

Bricker, Robert

From: Bricker, Robert
Sent: Wednesday, August 20, 2014 2:21 PM
To: 'jason.boockholdt@yahoo.com'
Subject: 1110 Underwood Road perc test proposal.

Jason and Heather,

After review of the percolation test proposal for 1110 Underwood Road, I have determined that the well location at 1111 Underwood Road must be knownd prior to proceeding. I may consider scheduling the propose perc test when the well location at 1111 Underwood Road is confirmed to be more than 100 feet from the property line at 1110 Underwood Road, and/or illustrated on the Percolation Test Plan.

Robert Bricker, CPSS, REHS/R.S., L.E.H.S.
Environmental Sanitarian II
Bureau of Environmental Health
Well and Septic Program, Development Coordination Section
8930 Stanford Blvd.
Columbia, MD 21045

Desk, 410-313-2691; FAX, 41-313-2648

1110 Underwood Road

(3)

A/P

(1)

1' brn sl
3 v f s b k

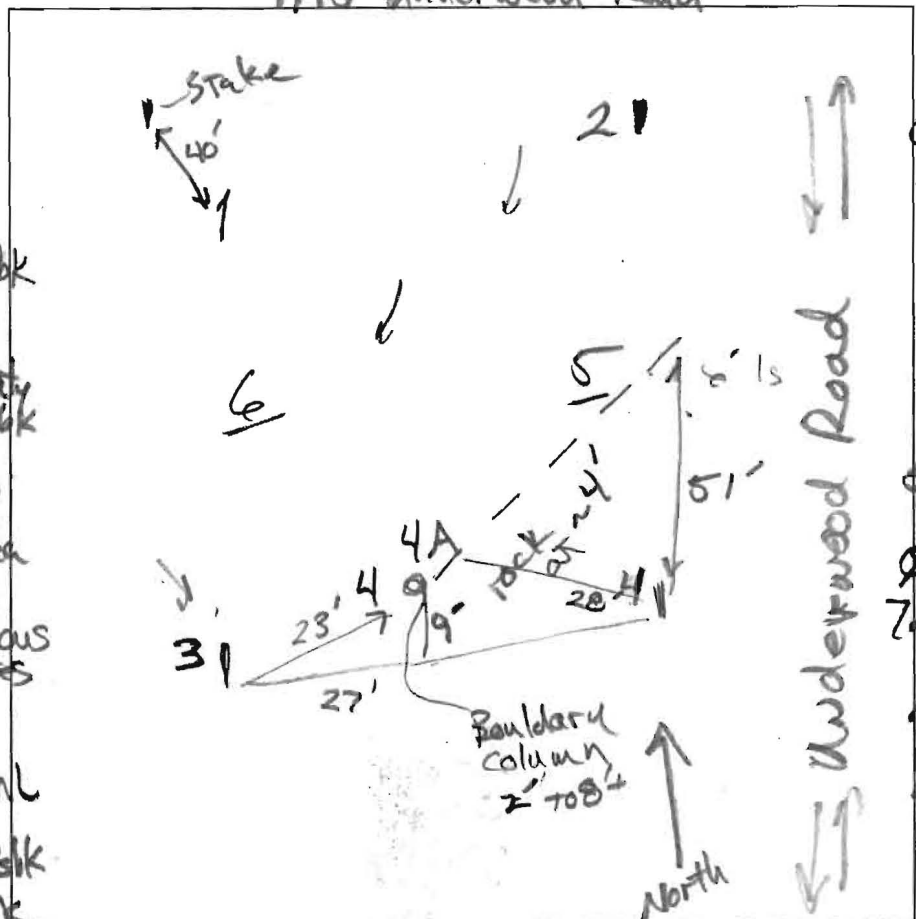
1' red sl
2 m s b k to 1 f s b k

25' red & yellow
sl, relic
thick platy
breaks to 2 m s b k
dense

4' red & yellow
sl, Ø m, few
mica

10' red & yellow
ls, discontinuous
thick plates

13.5'



0.8' grey-brn
L, 3 v f s b k
to 2 v f s b k

1.5' brn L, 2 f s b k

4' brn L, thin
platy
pale brn clay coats
3 d (grey)

6.9' red heavy sl
Ø m, ss, dense

7.8' red & yellow
sl, Ø m

10' red & yellow
& black ls

12.5'

(5)

0.4' dk grey-brn
L, 3 v f s b k

1.3' brn L, 3 f s b k

4' red sl,
2 v f s b k

5' red & yellow
sl, Ø m

7' red ls

12' Ø 39

4' dk grey-brn L
3 v f s b k

1' dk brn L, 2 f s b k

1' brn L, 2 f s b k

2.8' brn L, thin
platy

3.5' red & yellow
sl, Ø m, dense

6' red ls, Ø m
many yellow
inclusions

9' red & yellow
& 3 d (blk)

12'

(4A)

dk grey-brn L
3 v f s b k
grey brn L, 2 f s b k

1' brn L, 2 f s b k

2.5' red & yellow
sl, Ø m, dense

5.5' red ls
com mon
yellow inclusions

12'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9/4/2014	1	5' 3" / 13.5'	10:10	10:15	10:30	15	P
9/4/2014	3	7' / 12.5'	10:50	11:20			F
9/4/2014	4	12'	Visual	6'-8'	Rate same as 4A		PNC
9/4/2014	4A	7' / 12'	noon	12:11	12:53	39	PNC
9/4/2014	5	7' / 12'	12:11	12:14	12:20	6	P
9/4/2014	6	3' / 12'	1:32	1:35	1:41	6	P
9/4	2	12'	Visual	5'-8'	OK gpd/32		P

REMARKS _____

SANITARIAN RRicker BACKHOE Fogel's (Jake) OTHERS Jason Boockholdt

TEST HOLES USED IN SDA Hank Oswald AVG. PERC TIME _____ SQ. FT/BR _____

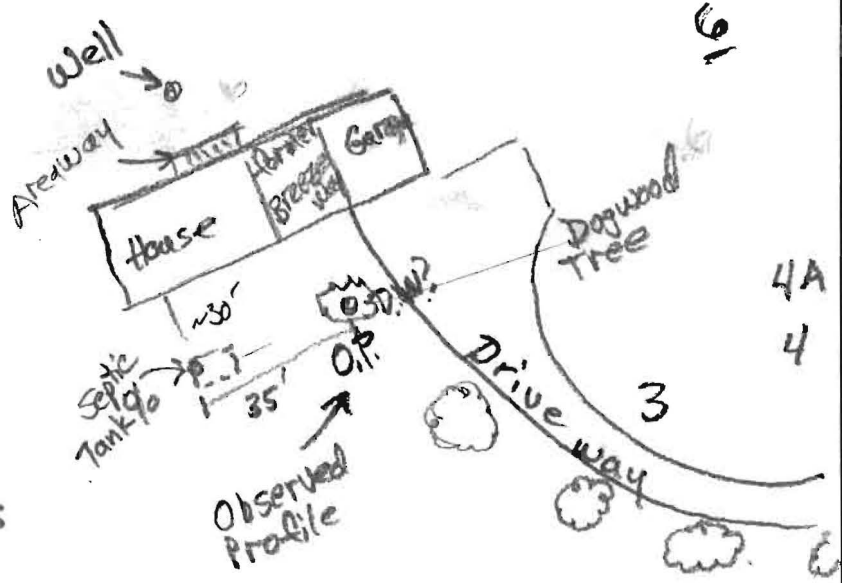
TRENCH WIDTH 2 INLET DEPTH #3 MAX. BOT DEPTH 8 EFFECTIVE SW (44)
5'-8'

$150(4) = 600 \div 0.8 = 750 \div 2 = 375 (44) = 165 LF$

8.7

(2)

0.7' dk grey-brn L, 3 v f s bk
 2.3' brn L, 2 f s bk
 red L, ss
 Thin platy
 5.5' red ls common yellow inclusions few boulders
 12'



0.7' dk grey-brn L, 3 v f s bk
 2.7' brn L, 2 f s bk
 red L, ss
 5' red & yellow sl, Ø sg
 6' red & yellow ls, Ø sg
 12'

Dry Well observation
 loamy red & brn soils
 concrete (waste)

4' brn L
 7' yel-red sl
 11' red & yellow ls, Ø sg
 14' red, yellow & dk brn ls, c 2d (bks)

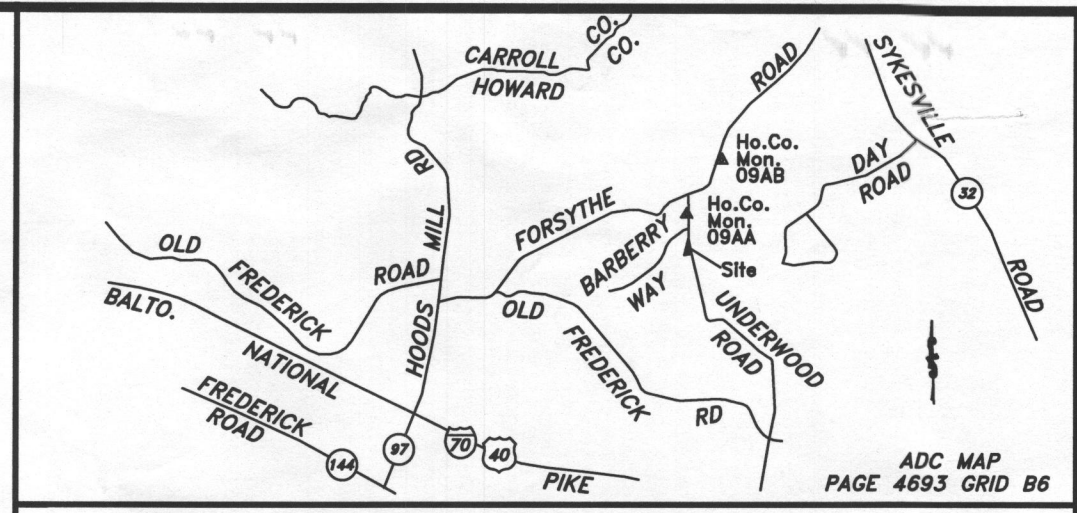
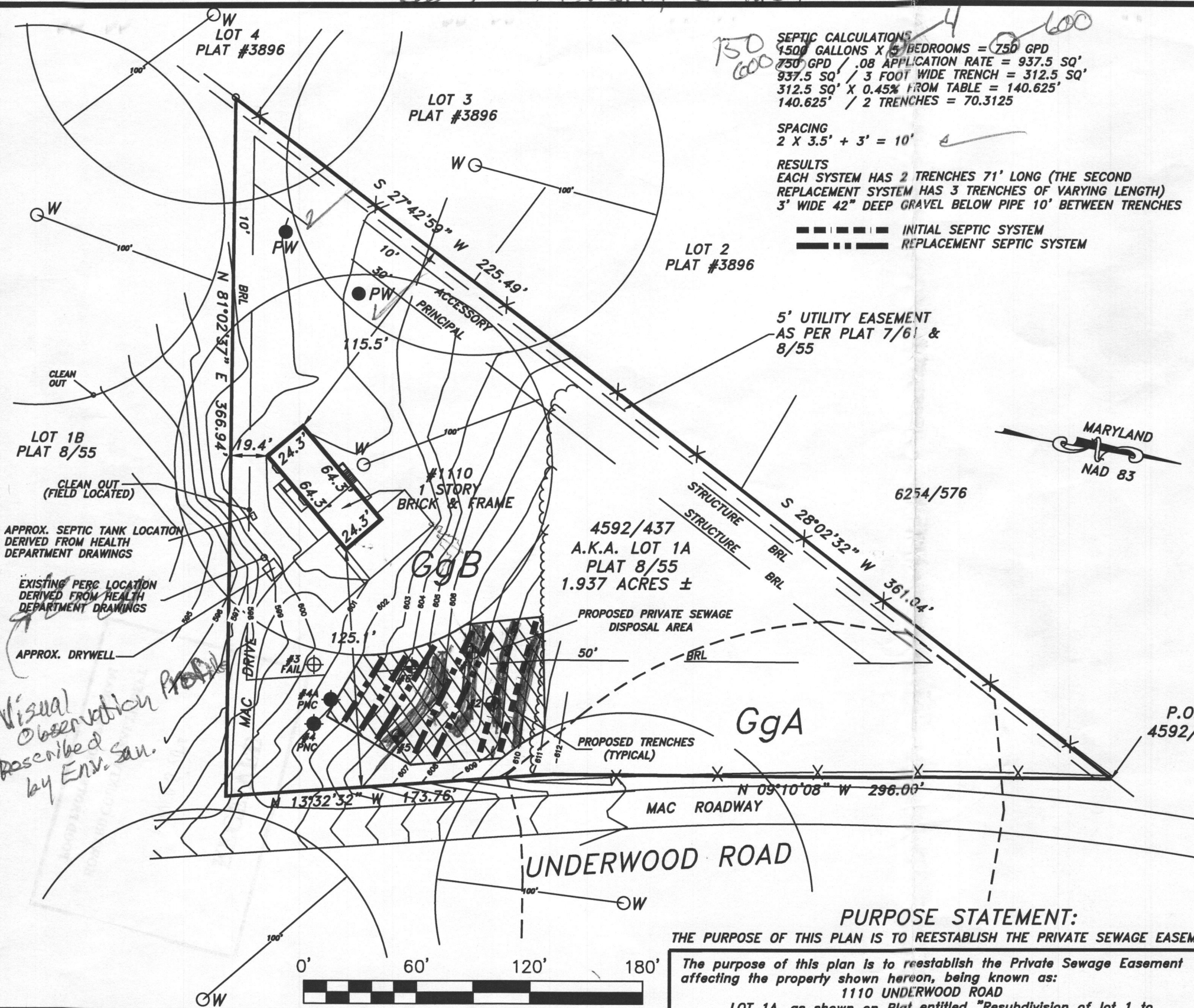
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9/4/14	6	7' 12"	1:32	1:35	1:41	6	P
9/4/14	2	12'	Visual	5-8' OK	0.8 gpd/cf		P
9/4/14	dry well observation	17.7'	Visual	all soil	no water		P

17.7' no water
 few rock fragments

REMARKS Well casing 10" above ground, 2-pc metal cap, white
 SANITARIAN R. Bricker BACKHOE Fogel's (w/bo) OTHERS J. Backhold PVC conduit (no gaps)
 TEST HOLES USED IN SDA Hank Oswald AVG. PERC TIME SQ. FT/BR
 TRENCH WIDTH INLET DEPTH MAX. BOT DEPTH EFFECTIVE SW

Well is 7.5' from area way; 11.3' from foundation

500 Nov 3 email; Scott Krell



- GENERAL NOTES:**
- 1) THIS AREA DESIGNATES A PRIVATE SEWAGE AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. FOR LOTS CREATED PRIOR TO MARCH OF 1972 IT PROVIDES AT LEAST ENOUGH AREA TO ACCOMMODATE AN INITIAL AND TWO REPLACEMENT SEPTIC SYSTEMS AS REQUIRED BY THE HOWARD COUNTY HEALTH DEPARTMENT. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS 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. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
 - 2) SUBJECT LOT WAS CREATED IN 1961.
 - 3) EXISTING SEPTIC SYSTEM WAS APPROXIMATELY LOCATED FROM A COMBINATION OF HEALTH DEPARTMENT DRAWINGS AND FIELD EVIDENCE. (CLEAN OUT FOR TANK)
 - 4) ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 - 5) ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS WITHIN 100' OF THE PROPERTY BOUNDARIES WITNESSES BY VISUAL INSPECTION WERE FIELD LOCATED AND SHOWN HEREON.
 - 6) ALL EXISTING AND PROPOSED WELLS WITHIN 200' DOWN-GRADE OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS LOCATED BY VISUAL INSPECTION ONLY.
 - 7) SOIL TYPE BOUNDARY LINE SCALED FROM MAP OBTAINED USDA WEBSITE WAS
 (a) GgA GLENELG LOAM 0 to 3%
 (b) GgB GLENELG LOAM 3 to 8%
 - 8) EXISTING FIRST FLOOR: 603.2'
 BASEMENT: 595.2'
 GARAGE SLAB: 601.7'
 - 9) THE ELEVATIONS AND CONTOURS SHOWN HEREON ARE THE RESULT OF A FIELD RUN TOPOGRAPHIC SURVEY, AND ARE SHOWN IN THE NAVD 1988 DATUM, BASED UPON BENCHMARK No. 09AA.
 - 10) PW REPRESENTS PROPOSED ALTERNATIVE WELL SITES.
 - 11) ⊕ REPRESENTS PASSED PERC HOLE.
 - 12) ⊕ REPRESENTS PASSED NON-CONVENTIONAL PERC HOLE.
 - 13) ⊕ REPRESENTS FAILED PERC HOLE.
 - 14) ○ W REPRESENTS EXISTING WELL.
 - 15) THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
 - 16) TOPOGRAPHY SHOWN HEREON IS AT ONE-FOOT CONTOUR INTERVALS (ONE FOOT INTERVALS ARE REQUIRED FOR MOUND SYSTEMS AND SYSTEMS WITH PIPE DEPTH LESS THAN TWO FEET) AND HAS BEEN FIELD VERIFIED OR FIELD RUN.
- REVISED 11/3/2014 TO ADDRESS COMMENTS

Visual observation described by Env. San.

Replace

PURPOSE STATEMENT:

THE PURPOSE OF THIS PLAN IS TO REESTABLISH THE PRIVATE SEWAGE EASEMENT.

The purpose of this plan is to reestablish the Private Sewage Easement affecting the property shown hereon, being known as:
 1110 UNDERWOOD ROAD
 LOT 1A, as shown on Plat entitled "Resubdivision of lot 1 to lots 1A & 1B GERBER KNOLL"
 recorded among the land records of Howard County, Maryland in Plat Book 8, Plat 55

Subject property is shown in Zone X on the FIRM Map of Howard County, Maryland on Community Panel Number 24027C0055D, Effective 11/6/2013

This is to certify that I either personally prepared or was in responsible charge over the preparation of this drawing and the surveying work reflected in it, all set forth in Regulation .12 of Chapter 09.13.06 of the Code of Maryland Annotated Regulations.



PERCOLATION CERTIFICATION PLAN
 1110 UNDERWOOD ROAD
 TAX MAP 9, PARCEL 80
 4rd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

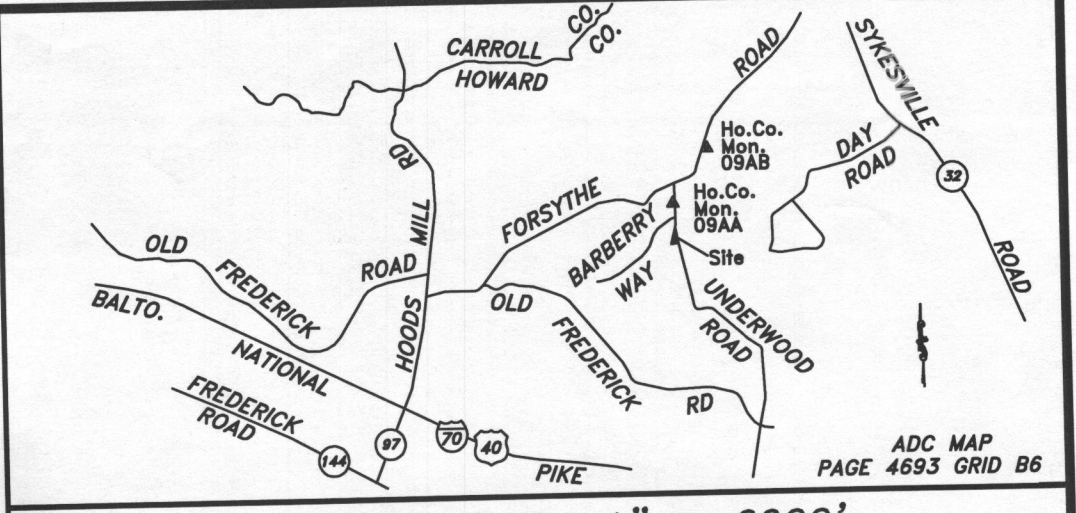
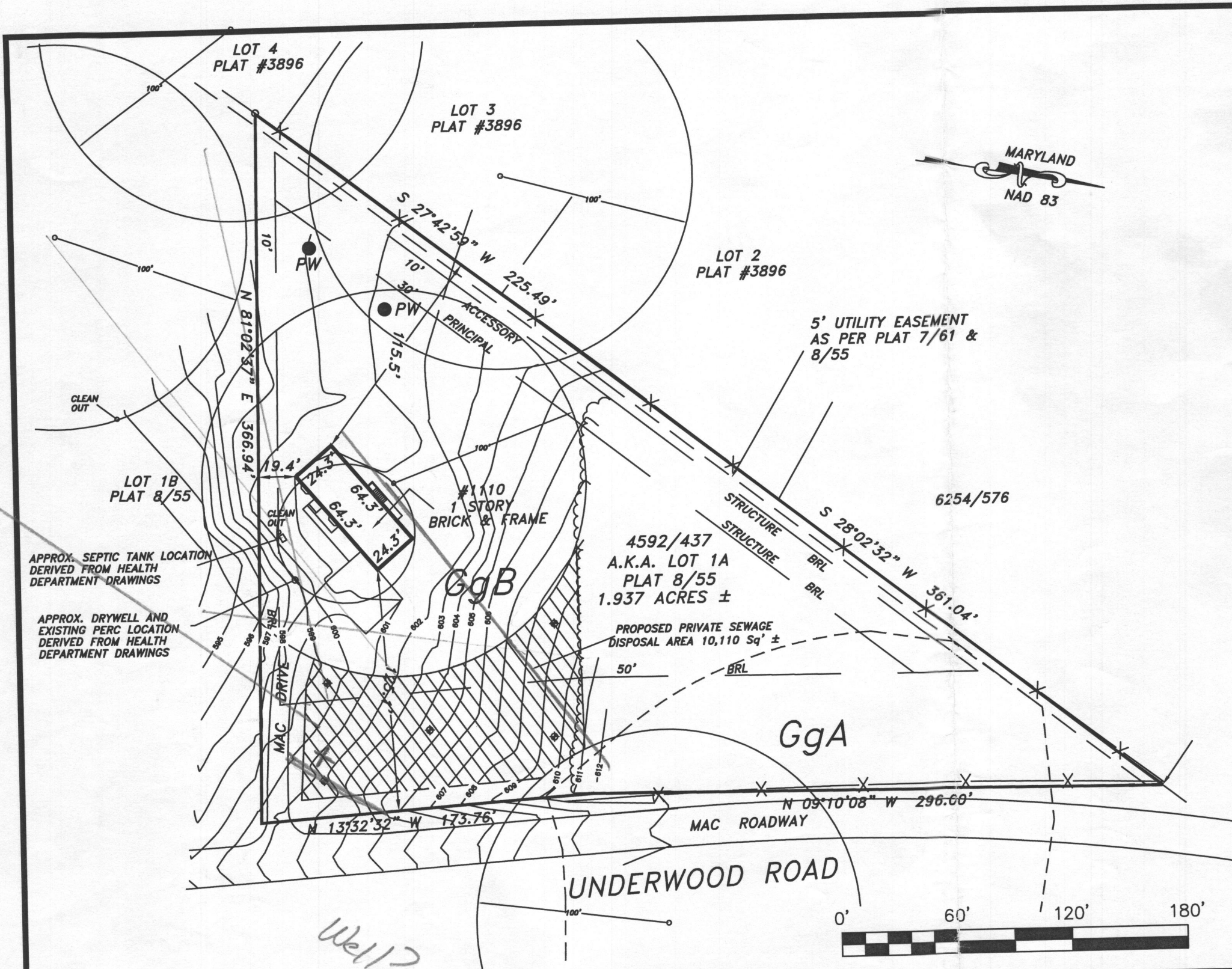
NTT Associates, Inc.
 16205 Old Frederick Rd.
 Mt. Airy, Maryland 21771
 Phone: (410) 442-2031
 Fax: (410) 442-1315
 www.nttsurveyors.com

Scale: 1" = 60'
 Date: 6/3/2014
 Field By: RIK/SCK
 Drawn By: RIK/SCK
 File No.: MISC10707A

HOWARD COUNTY, MARYLAND
 HEALTH DEPARTMENT
 APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.

HEALTH OFFICER _____ DATE _____

OWNER/DEVELOPER
 Jason C. Boockholdt and
 Heather M. Perrault
 1110 Underwood Road
 Sykesville, Maryland 21784
 Phone: (240) 353-7398



VICINITY MAP 1" = 6000'

GENERAL NOTES:

- 1) THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE 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.
- 2) SUBJECT LOT WAS CREATED IN 1961.
- 3) EXISTING SEPTIC SYSTEM WAS APPROXIMATELY LOCATED FROM HEALTH DEPARTMENT DRAWINGS ONLY.
- 4) ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- 5) ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS WITHIN 100' OF THE PROPERTY BOUNDARIES LOCATED BY VISUAL INSPECTION ONLY.
- 6) ALL EXISTING AND PROPOSED WELLS WITHIN 200' DOWN-GRADE OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS LOCATED BY VISUAL INSPECTION ONLY.
- 7) SOIL TYPE BOUNDARY LINE SCALED FROM MAP OBTAINED USDA WEBSITE WAS
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- 8) EXISTING FIRST FLOOR: 603.2'
 BASEMENT: 595.2'
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- 9) THE ELEVATIONS AND CONTOURS SHOWN HEREON ARE THE RESULT OF A FIELD RUN TOPOGRAPHIC SURVEY, AND ARE SHOWN IN THE NAVD 1988 DATUM, BASED UPON BENCHMARK No. 09AA.
- 10) ⊕ REPRESENTS PROPOSED PERC HOLE.
- 11) ● REPRESENTS PROPOSED ALTERNATIVE WELL SITES.

THE PURPOSE OF THIS PLAN IS TO REESTABLISH THE PRIVATE SEWAGE EASEMENT.

HOWARD COUNTY, MARYLAND
HEALTH DEPARTMENT

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.

HEALTH OFFICER

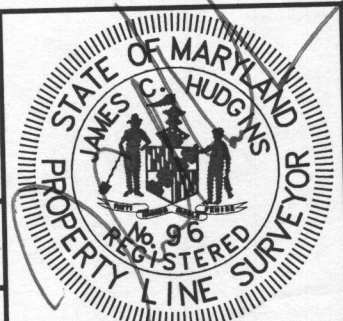
OWNER/DEVELOPER

Jason C. Boockholdt and
Heather M. Perrault
1110 Underwood Road
Sykesville, Maryland 21784
Phone: (240) 353-7398

The purpose of this drawing is to locate, describe, and represent the positions of buildings and substantial improvements affecting the property shown hereon, being known as:
LOT 1A, as shown on Plat entitled "Resubdivision of lot 1 to lots 1A & 1B GERBER KNOLL"
recorded among the land records of Howard County, Maryland in Plat Book 8, Plat 55

Subject property is shown in Zone C on the FIRM Map of Howard County, Maryland on Community Panel Number 240044 0009 B, Effective 4/2/1997

This is to certify that I either personally prepared or was in responsible charge over the preparation of this drawing and the surveying work reflected in it, all set forth in Regulation .12 of Chapter 09.13.06 of the Code of Maryland Annotated Regulations.



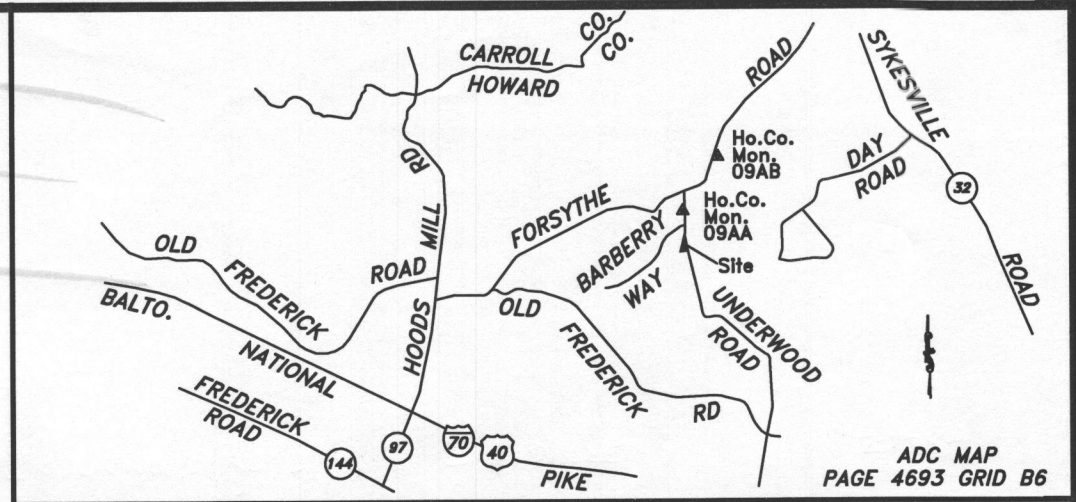
J. Carl Hudgins PLS #96
Expiration Date: 3/11/16

PERCOLATION SITE PLAN
1110 UNDERWOOD ROAD
TAX MAP 9, PARCEL 80
4rd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

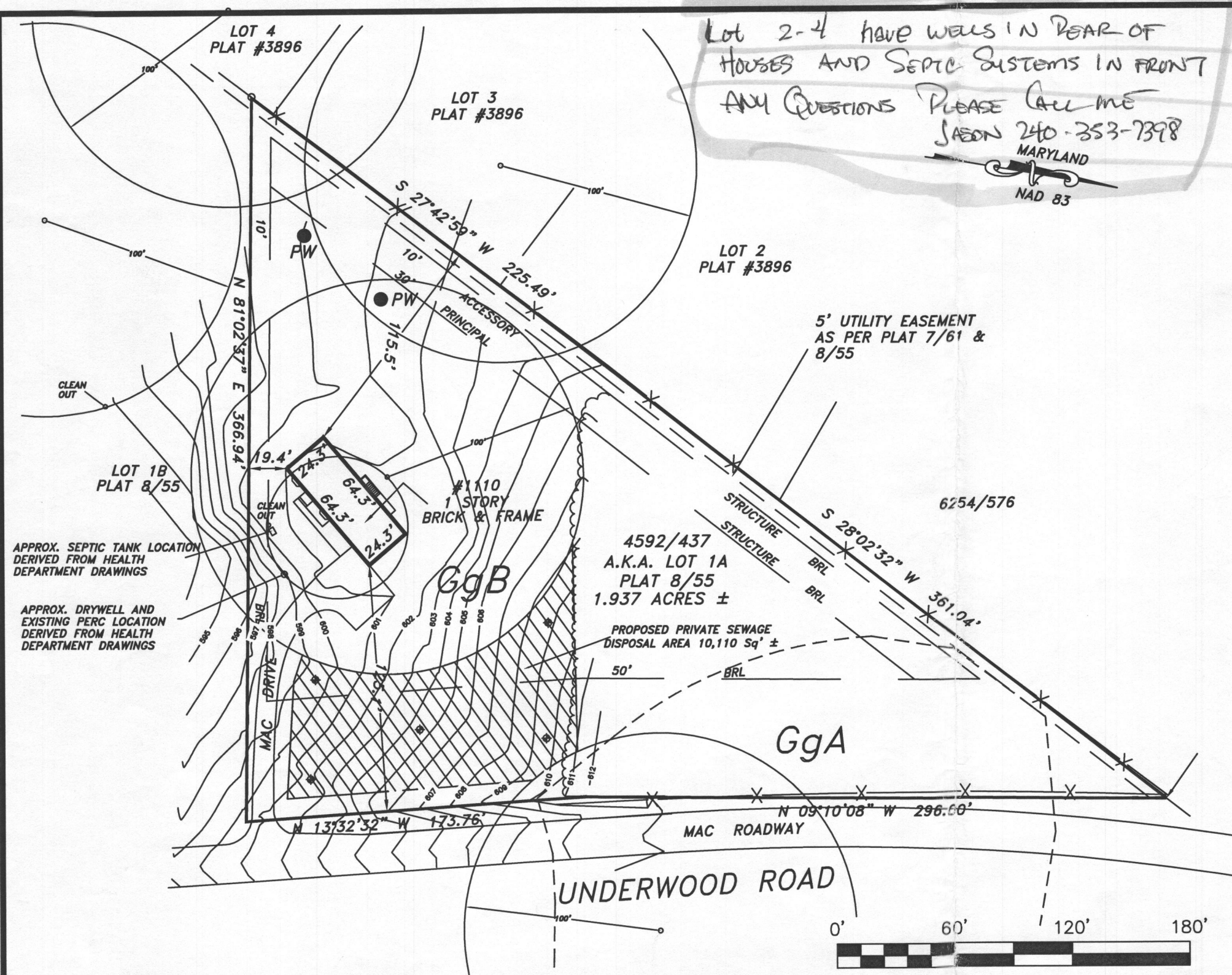
NTT Associates, Inc.
16205 Old Frederick Rd.
Mt. Airy, Maryland 21771
Phone: (410) 442-2031
Fax: (410) 442-1315
www.nttsurveyors.com

Scale: 1" = 60'
Date: 6/3/2014
Field By: RIK/SCK
Drawn By: RIK/SCK
File No.: MISC10707A

Lot 2-4 have wells in rear of houses and septic systems in front
 ANY QUESTIONS PLEASE CALL ME
 JASON 240-353-7398
 MARYLAND
 NAD 83



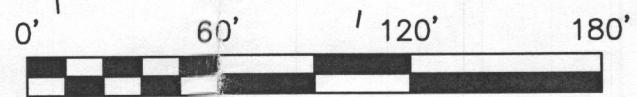
VICINITY MAP 1" = 6000'



GENERAL NOTES:

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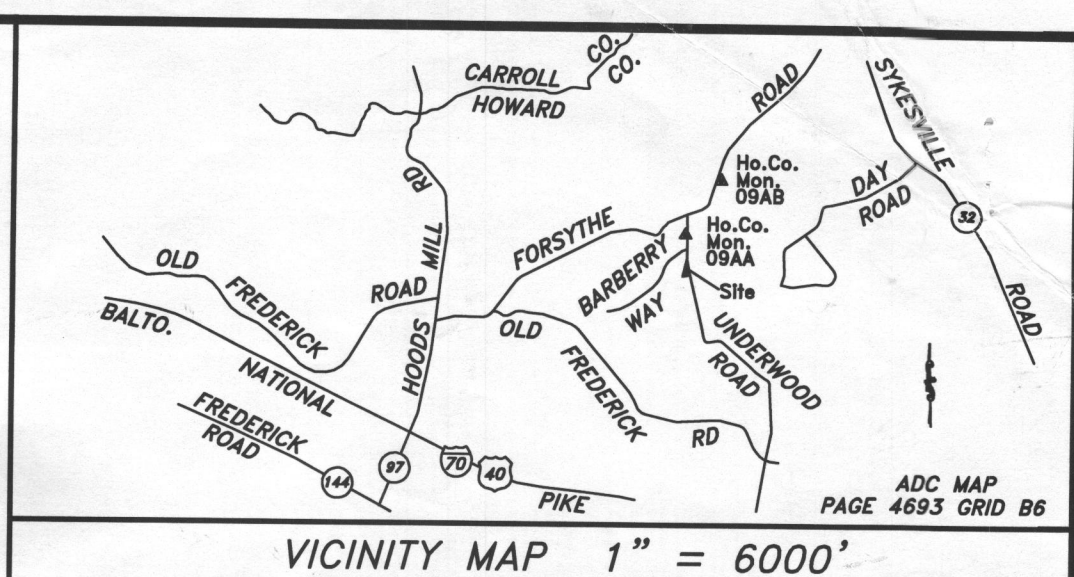
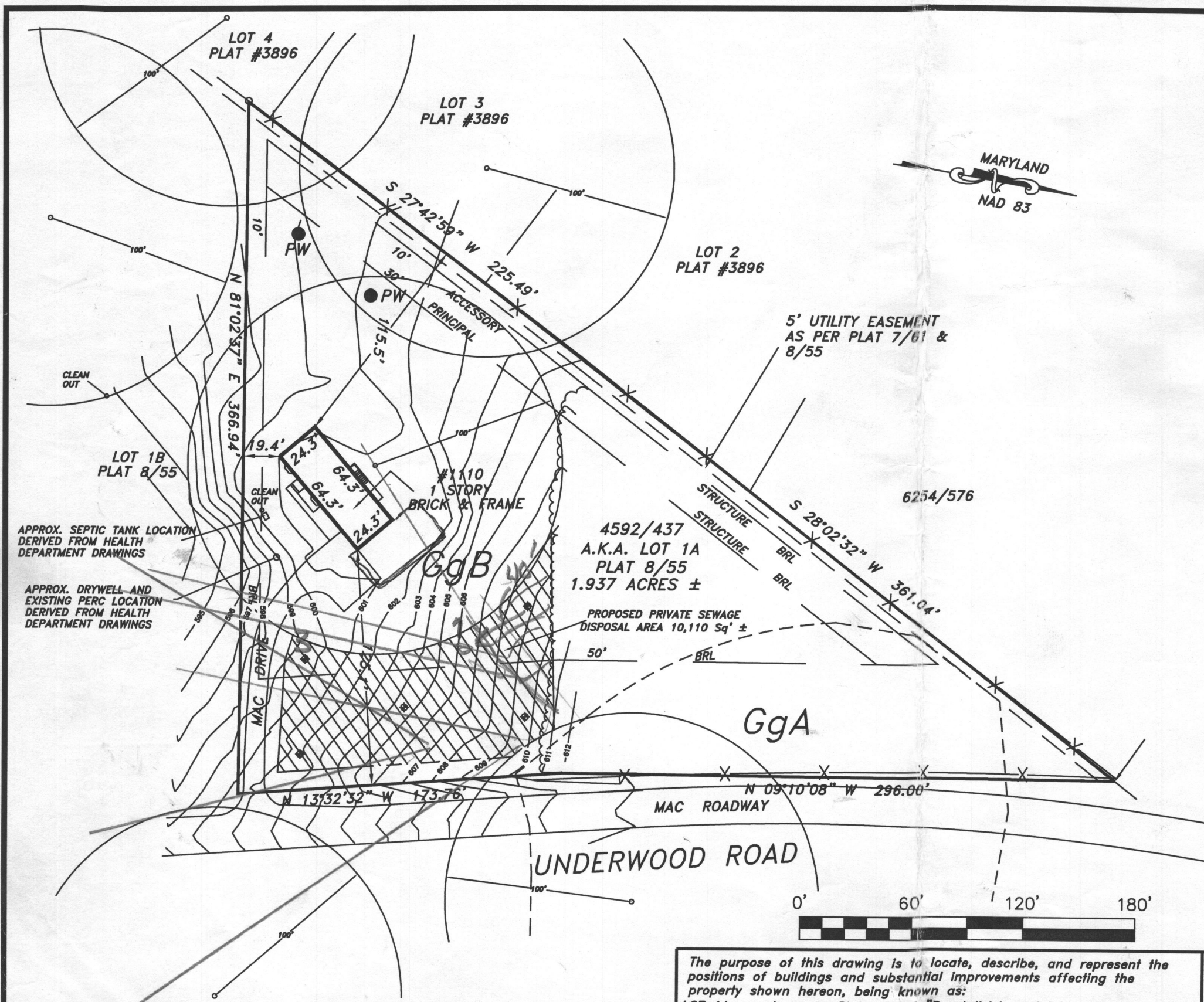
HOWARD COUNTY, MARYLAND
 HEALTH DEPARTMENT
 APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.
 HEALTH OFFICER

OWNER/DEVELOPER
 Jason C. Boockholdt and Heather M. Perrault
 1110 Underwood Road
 Sykesville, Maryland 21784
 Phone: (240) 353-7398

The purpose of this drawing is to locate, describe, and represent the positions of buildings and substantial improvements affecting the property shown hereon, being known as:
 LOT 1A, as shown on Plat entitled "Resubdivision of lot 1 to lots 1A & 1B GERBER KNOLL" recorded among the land records of Howard County, Maryland in Plat Book 8, Plat 55
 Subject property is shown in Zone C on the FIRM Map of Howard County, Maryland on Community Panel Number 240044 0009 B, Effective 4/2/1997
 This is to certify that I either personally prepared or was in responsible charge over the preparation of this drawing and the surveying work reflected in it, all set forth in Regulation .12 of Chapter 09.13.06 of the Code of Maryland Annotated Regulations.



PERCOLATION SITE PLAN
 1110 UNDERWOOD ROAD
 TAX MAP 9, PARCEL 80
 4rd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 NTT Associates, Inc.
 16205 Old Frederick Rd.
 Mt. Airy, Maryland 21771
 Phone: (410) 442-2031
 Fax: (410) 442-1315
 www.nttsurveyors.com
 Scale: 1" = 60'
 Date: 6/3/2014
 Field By: RIK/SCK
 Drawn By: RIK/SCK
 File No.: MISC10707A



GENERAL NOTES:

- 1) THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE 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.
- 2) SUBJECT LOT WAS CREATED IN 1961.
- 3) EXISTING SEPTIC SYSTEM WAS APPROXIMATELY LOCATED FROM HEALTH DEPARTMENT DRAWINGS ONLY.
- 4) ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- 5) ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS WITHIN 100' OF THE PROPERTY BOUNDARIES LOCATED BY VISUAL INSPECTION ONLY.
- 6) ALL EXISTING AND PROPOSED WELLS WITHIN 200' DOWN-GRADE OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS LOCATED BY VISUAL INSPECTION ONLY.
- 7) SOIL TYPE BOUNDARY LINE SCALED FROM MAP OBTAINED USDA WEBSITE WAS
 - (a) GgA GLENELG LOAM 0 to 3%
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- 8) EXISTING FIRST FLOOR: 603.2'
BASEMENT: 595.2'
GARAGE SLAB: 601.7'
- 9) THE ELEVATIONS AND CONTOURS SHOWN HEREON ARE THE RESULT OF A FIELD RUN TOPOGRAPHIC SURVEY, AND ARE SHOWN IN THE NAVD 1988 DATUM, BASED UPON BENCHMARK No. 09AA.
- 10) REPRESENTS PROPOSED PERC HOLE.
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HOWARD COUNTY, MARYLAND
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APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.

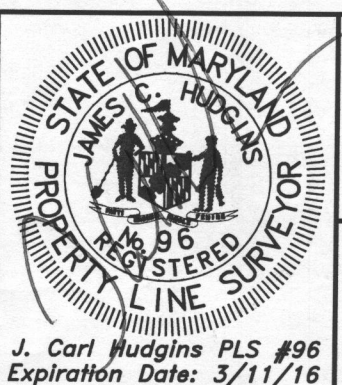
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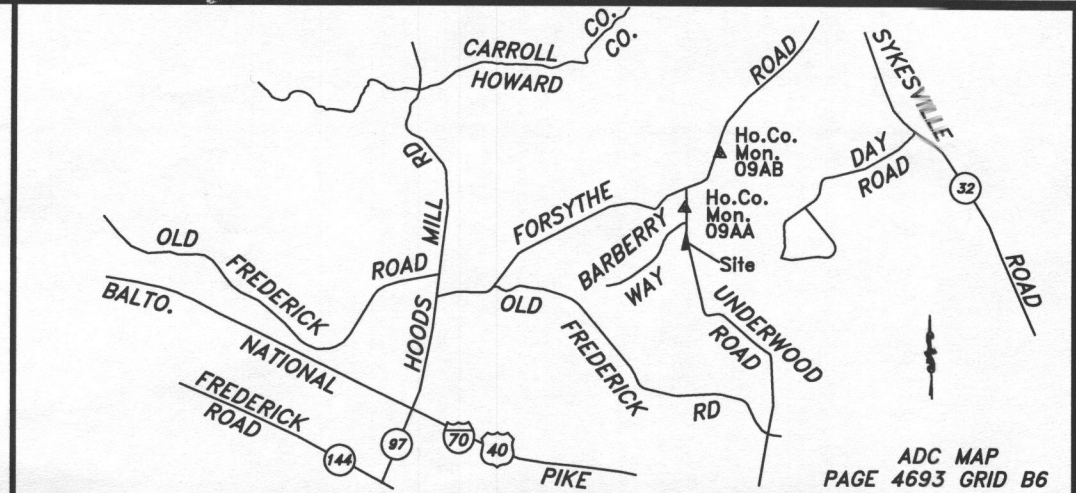
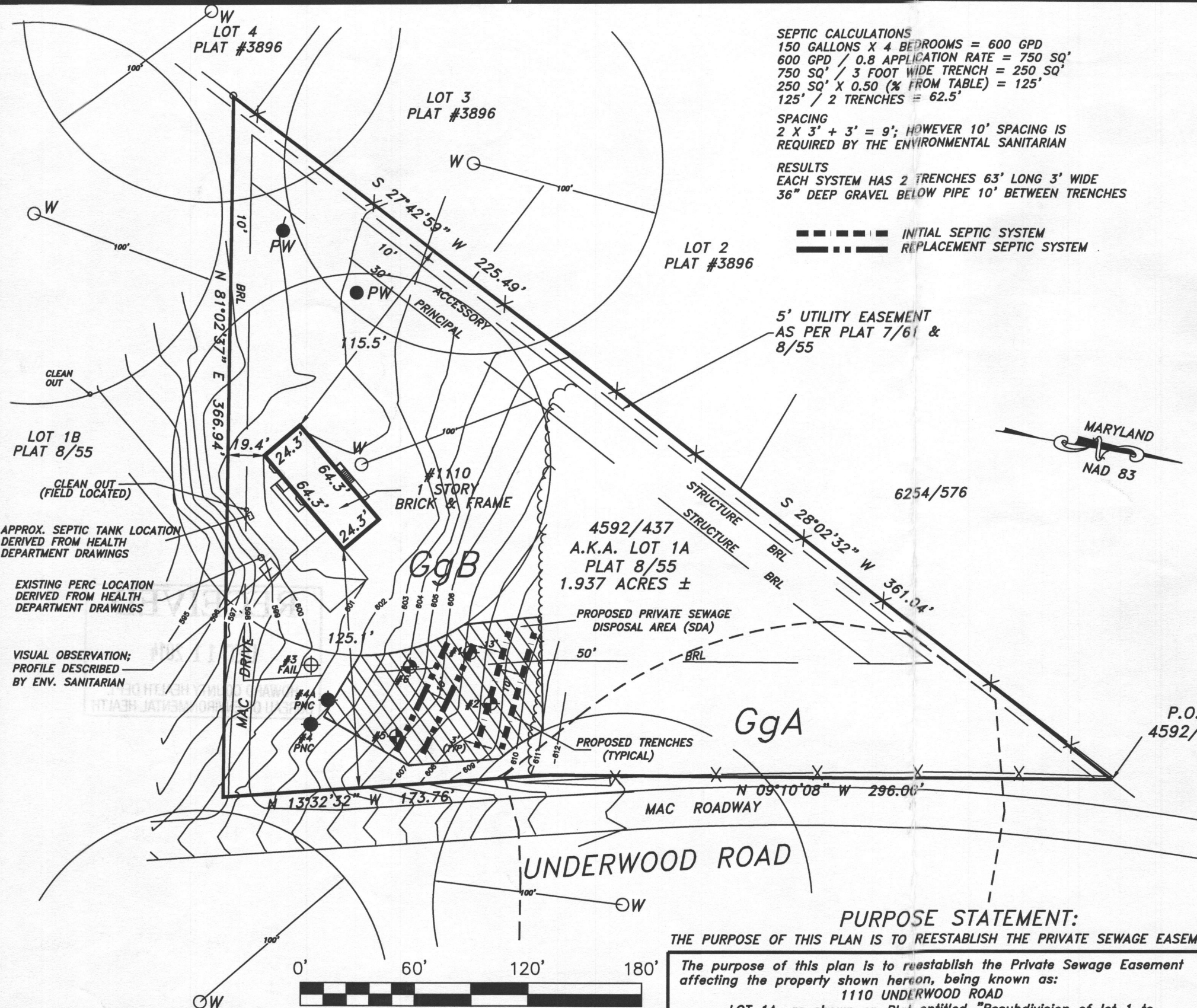
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PERCOLATION SITE PLAN
1110 UNDERWOOD ROAD
TAX MAP 9, PARCEL 80
4rd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

NTT Associates, Inc.
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Scale: 1" = 60'
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 - W REPRESENTS EXISTING WELL.
 - THE PROPOSED SDA WILL ACCOMMODATE ONLY TWO CONVENTIONAL DRAINFIELD SYSTEMS THAT HAVE DEEP TRENCHES DESIGNED BY CURRENT STANDARDS
 - TOPOGRAPHY SHOWN HEREON IS AT ONE-FOOT CONTOUR INTERVALS (ONE FOOT INTERVALS ARE REQUIRED FOR MOUND SYSTEMS AND SYSTEMS WITH PIPE DEPTH LESS THAN TWO FEET) AND HAS BEEN FIELD VERIFIED OR FIELD RUN.
 - THE LIMITATIONS OF SOILS PROPERTIES ON (TAX MAP 9) PARCEL 80 ARE SUCH THAT A HOUSE WITH NO MORE THAN FOUR BEDROOMS CAN BE SUPPORTED BY THE DESCRIBED SDA.

PURPOSE STATEMENT:

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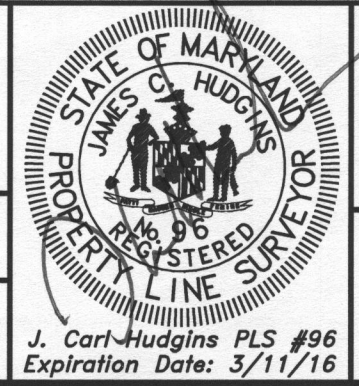
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REVISED 11/3/2014 TO ADDRESS COMMENTS
 REVISED 11/25/2014 TO ADDRESS COMMENTS

HOWARD COUNTY, MARYLAND
 HEALTH DEPARTMENT
 APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.

HEALTH OFFICER _____ DATE _____

OWNER/DEVELOPER
 Jason C. Boockholdt and
 Heather M. Perrault
 1110 Underwood Road
 Sykesville, Maryland 21784
 Phone: (240) 353-7398

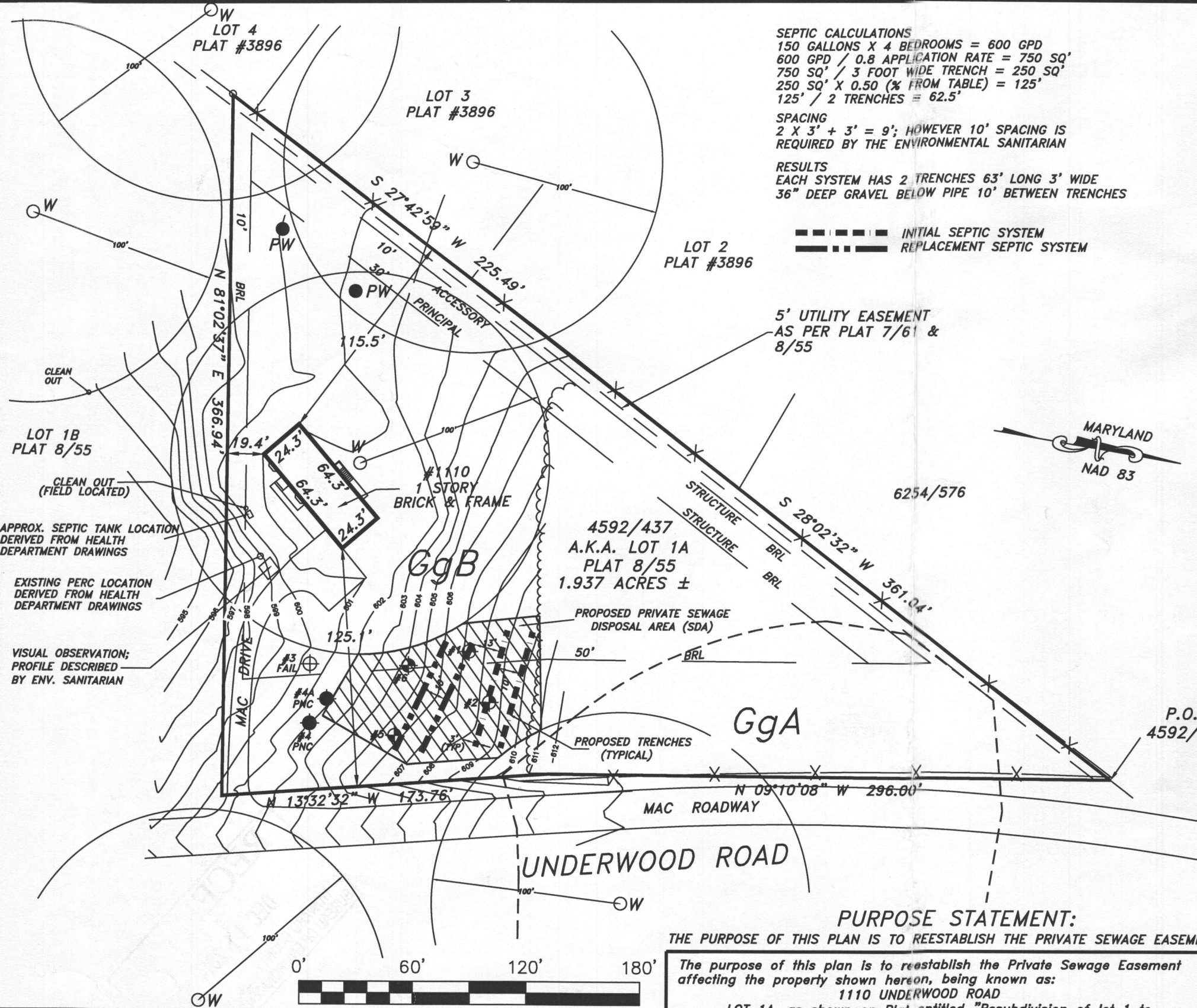


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PC554550



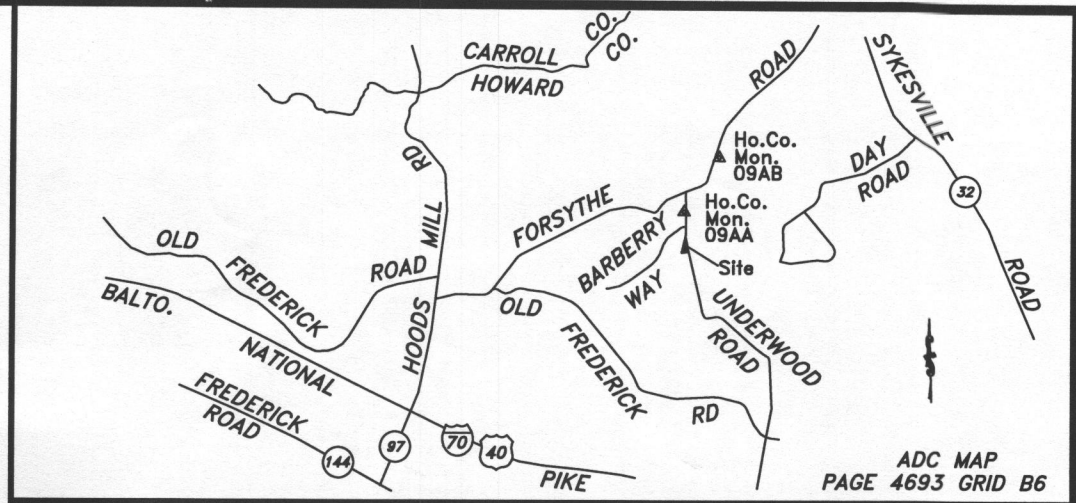
SEPTIC CALCULATIONS
 150 GALLONS X 4 BEDROOMS = 600 GPD
 600 GPD / 0.8 APPLICATION RATE = 750 SQ'
 750 SQ' / 3 FOOT WIDE TRENCH = 250 SQ'
 250 SQ' X 0.50 (% FROM TABLE) = 125'
 125' / 2 TRENCHES = 62.5'

SPACING
 2 X 3' + 3' = 9'; HOWEVER 10' SPACING IS REQUIRED BY THE ENVIRONMENTAL SANITARIAN

RESULTS
 EACH SYSTEM HAS 2 TRENCHES 63' LONG 3' WIDE
 36" DEEP GRAVEL BELOW PIPE 10' BETWEEN TRENCHES

--- INITIAL SEPTIC SYSTEM
 - - - REPLACEMENT SEPTIC SYSTEM

5' UTILITY EASEMENT AS PER PLAT 7/61 & 8/55



VICINITY MAP 1" = 6000'

GENERAL NOTES:

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REVISED 11/3/2014 TO ADDRESS COMMENTS
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HOWARD COUNTY, MARYLAND
 HEALTH DEPARTMENT
 APPROVED FOR PRIVATE WATER AND
 PRIVATE SEWERAGE SYSTEMS.

OWNER/DEVELOPER
 Jason C. Boockholdt and
 Heather M. Perrault
 1110 Underwood Road
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 Phone: (240) 353-7398

HEALTH OFFICER _____ DATE _____

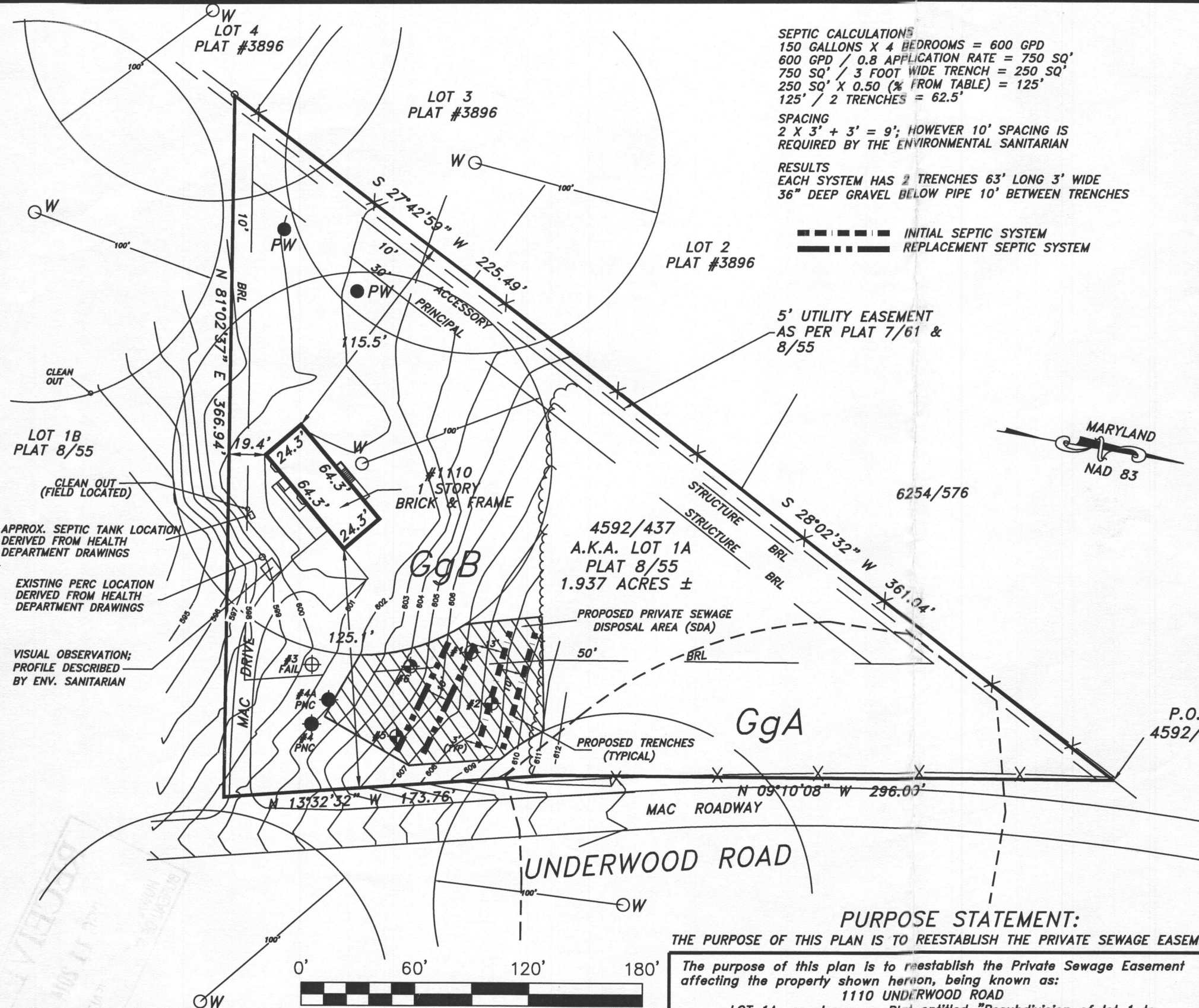


PERCOLATION CERTIFICATION PLAN
 1110 UNDERWOOD ROAD
 TAX MAP 9, PARCEL 80
 4rd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

NTT Associates, Inc.
 16205 Old Frederick Rd.
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 Phone: (410) 442-2031
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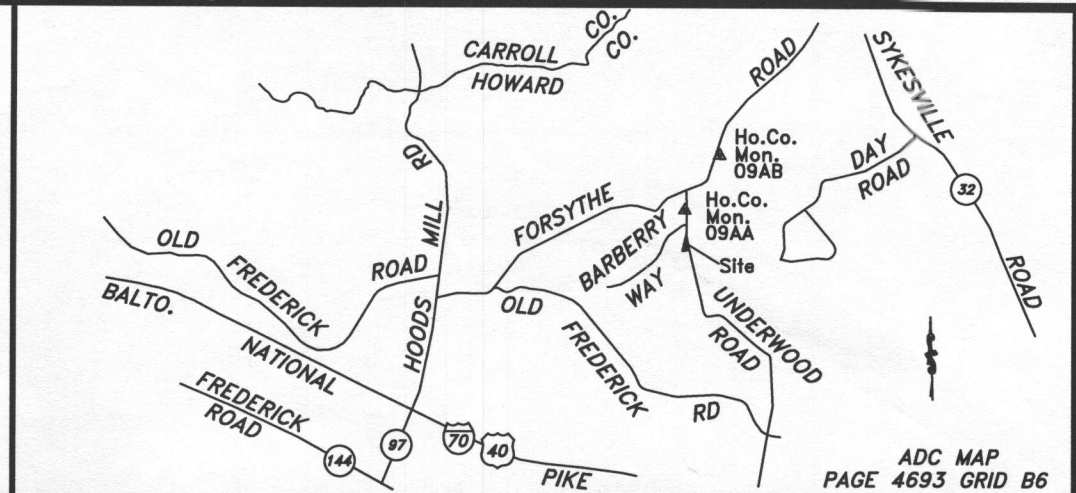
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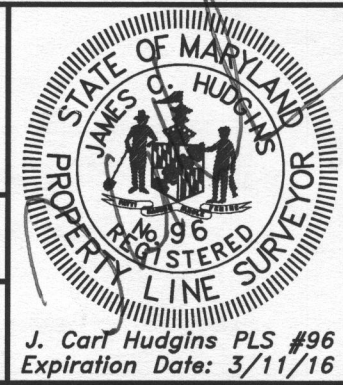
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REVISED 11/3/2014 TO ADDRESS COMMENTS
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HOWARD COUNTY, MARYLAND
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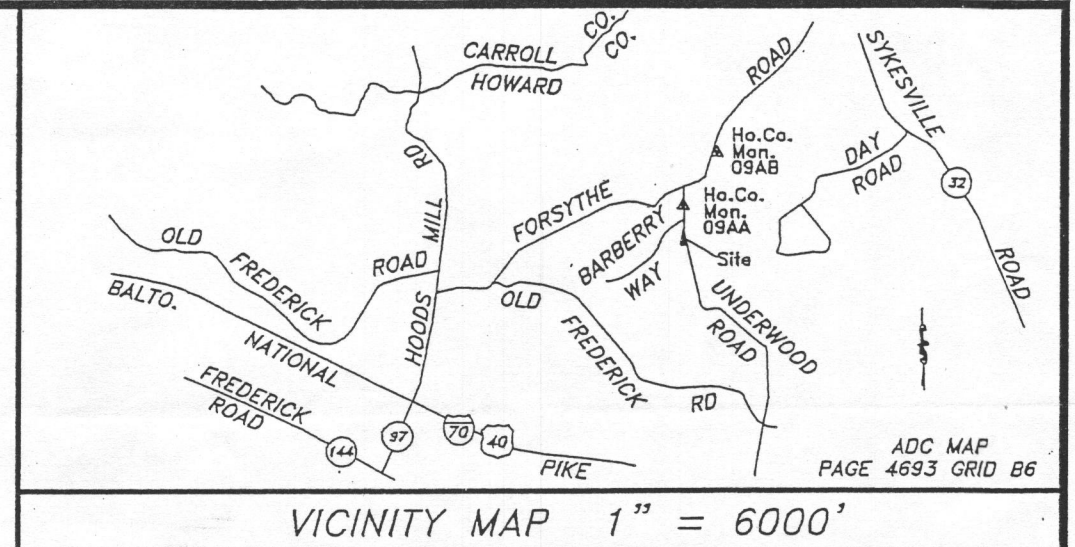
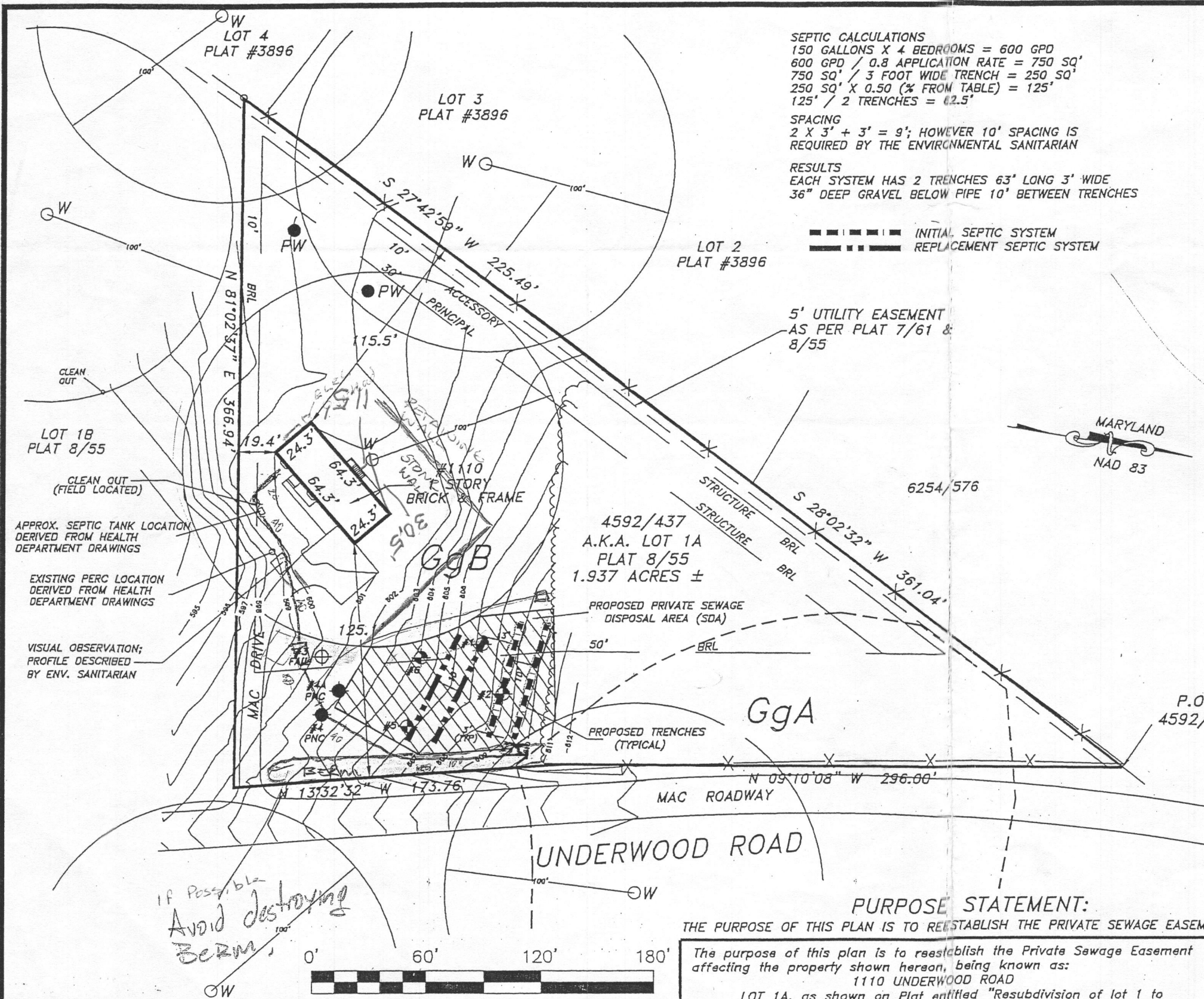
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PC554550

HD - LAYOUT
- REPAIR



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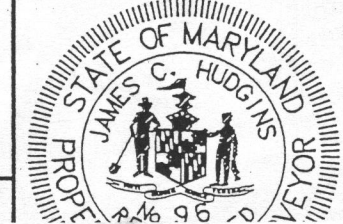
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