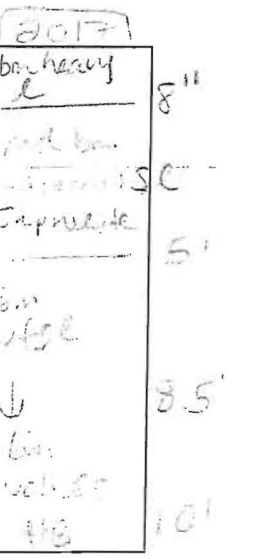
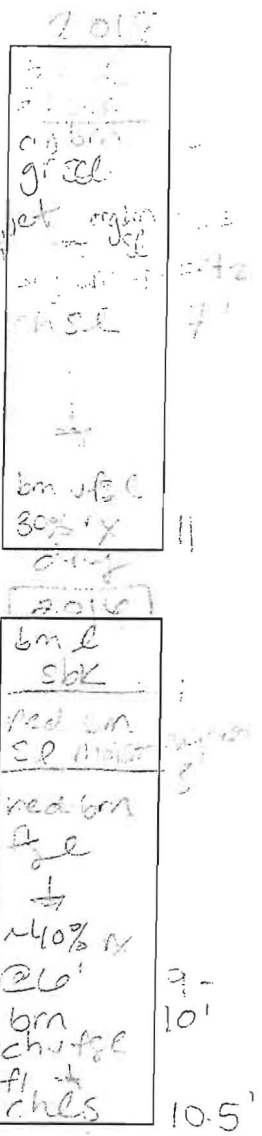
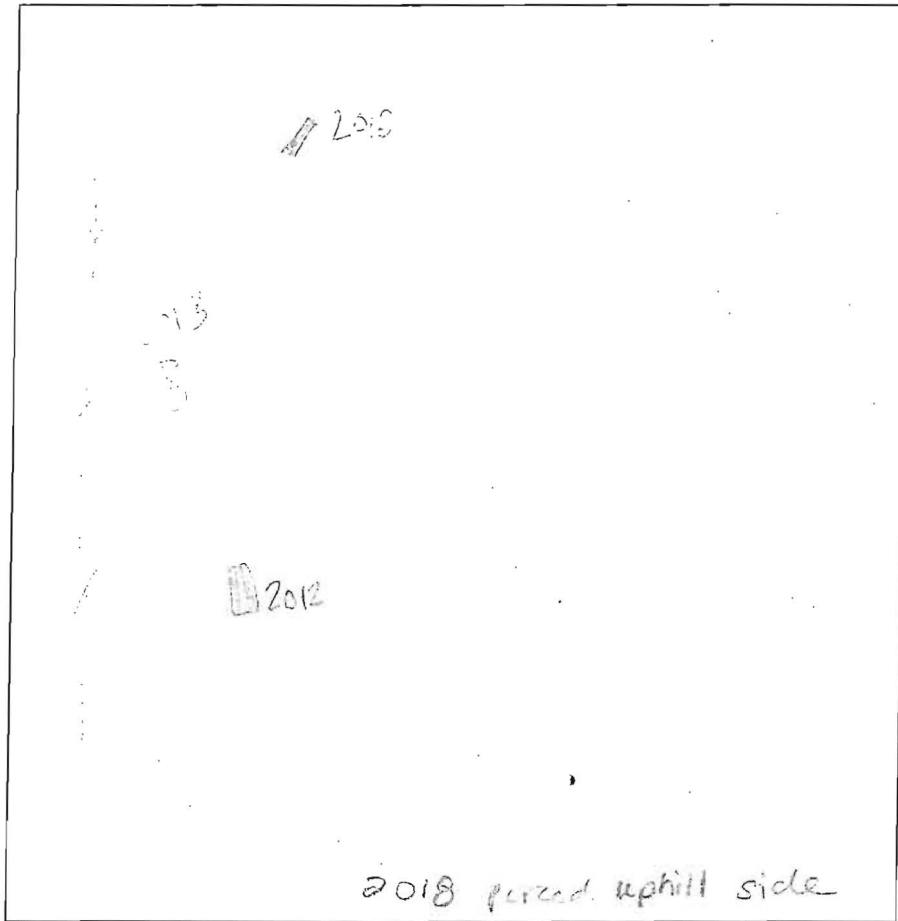
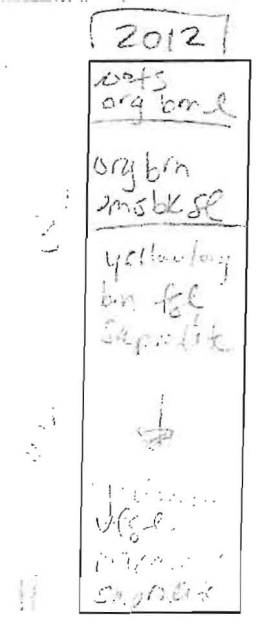
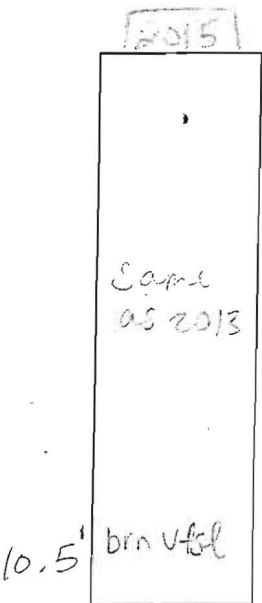
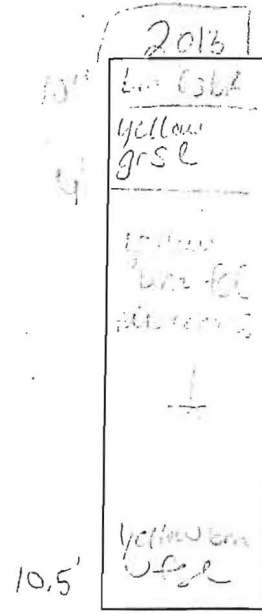


AVP



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
10-25-10	2013	4.5' / 10.5'	Ø	1:40	3:45	2+	P
	2015	4.5' / 12'	Ø	1:54	3:01	2+	P
	2012	4' / 11'	Ø	1:51	4:53	3	P
	2018	4' / 11'	1:42	no movement	nt		F
	2016	3' 2" / 10.5'	Ø	2:00	5:19	3+	P
	2017	3.5' / 10'	Ø	1:15	3:40	~2.5	P
	2018	3' / 11'	Ø	2:45	5:15	2.5	P

REMARKS Lot 1 & Lot 2 used stopwatch
 SANITARIAN 2 BACKHOE 300 OTHERS Zach Cleveland
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____



AP _____

2020

3' 3'
 bm fsl
 Saprolite

7'
 bm
 mica
 fsl saprolite

bm ls
 20% rx

2019

1' bml

4' yellow bm
 gr sl

red yellow
 bm fsl
 mica
 mica

8.5' red bm
 v-fsl
 saprolite

11' ch fsl

2017A

1' bm l
 roots

3.5' red bm
 sl 2msbl

red bm
 fsl
 saprolite
 manganese

9' yellow
 bm
 v-fsl

11' yellow bm
 ls 10% fsl

2017A
 extra hole ~40' p2016 along wood line

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
10-25-10	2020	10.5'	VISUAL				P
10-25-10	2019	4 1/11'	Ø	1:20	3:29	2"	P
10-25-10	2017A	4 1/11'	Ø	1:28	3:37	2"	P
10-25-10	2020	3 1/10.5'	Ø	1:20	4:00	2.5"	P

REMARKS Lot 2 727 = ?

SANITARIAN HS BACKHOE Chuck OTHERS Zach

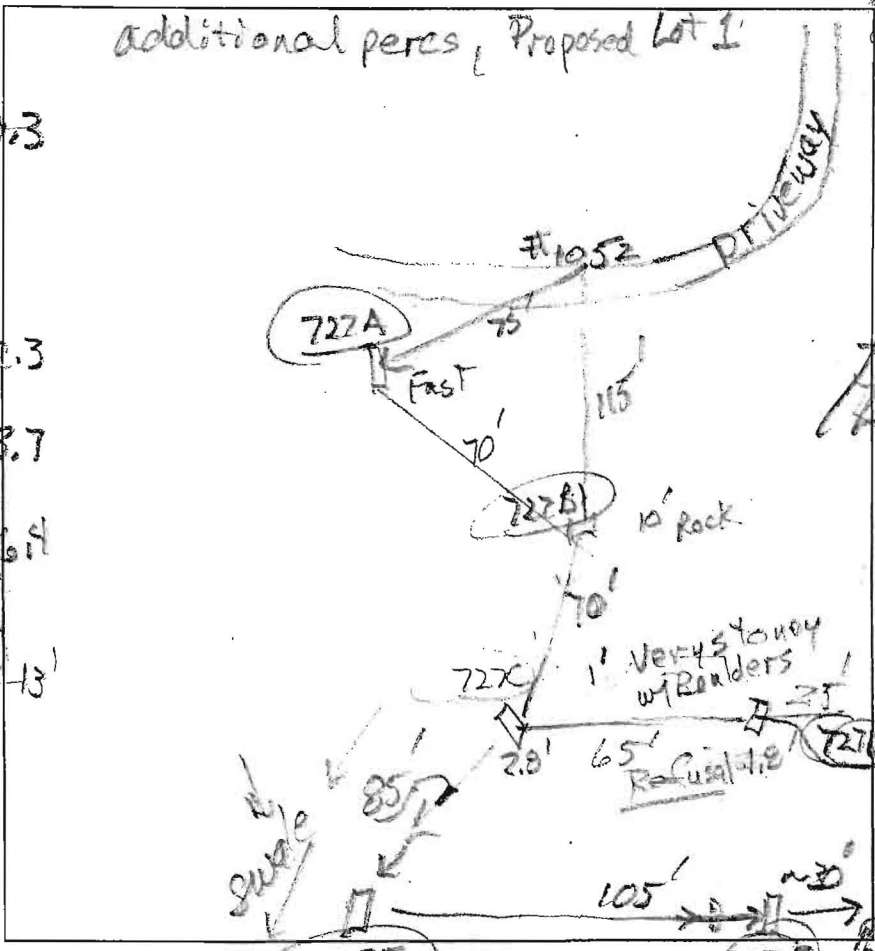
TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

AP

727A

dk grey brn sl
brn scl
2 f sbk
yel red scl
3 msbk
yel red scl
2 msbk
yel red sl
micaceous
brn ls
micaceous
few stones
lt. brn. & white
ls (lighter
texture)



727B

brn scl
3 f sbk
brn sl
2 msbk
lt. brn & yellow
ls
dk, brn & yellow
ls, micaceous
dense strata
brn ls

brn scl
2 msbk
many roots
brn grsl
many mica
vfl & bq ls
tepl
yel-red
dk brn & white
w/ black ls
dk brn
f dk grey sl
moist

RECEIVED
TOWARD COUNTY HEALTH DEPT
ENVIRONMENTAL HEALTH
2010 MR - 8 PM 4:52

2' brn scl
2 msbk
brn grsl
4.2' yel-red
yel-brn lfs
moisture
increasing
8' yel-brn
yel-red
& pale yellow
w/ black
ls micaceous
moist
9.4' water
seeps
sating
1' platy water level

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
7/27/10	727A	6.8' / 13'	9:32	9:33:30	9:35:15	1.2	repair
		6.8' / 13'	9:32	9:33:30	9:35:15	1.6	repair
	727A	6.8' / 13'	9:36	9:37:30	9:39:15	1.8	F
7/27/10	727B	5.7' / 10'	11:05:35	11:06:50	11:08:15	1.7	F
7/27/10	727E	4.2' / 8'	11:34	11:35:15	11:37:27	2.2	reskelf
	727E	5.7' / 8'	11:58:30	11:59:15	12:02:15	3	
7/27/10	727F	5.4' / 128'	12:11:30	12:12:10	12:13:05	0.9	F
7/27/10	727C/D	1'					50% rock Refusal at 68' & 28'

REMARKS Heavy storm 44 hours prior to testing

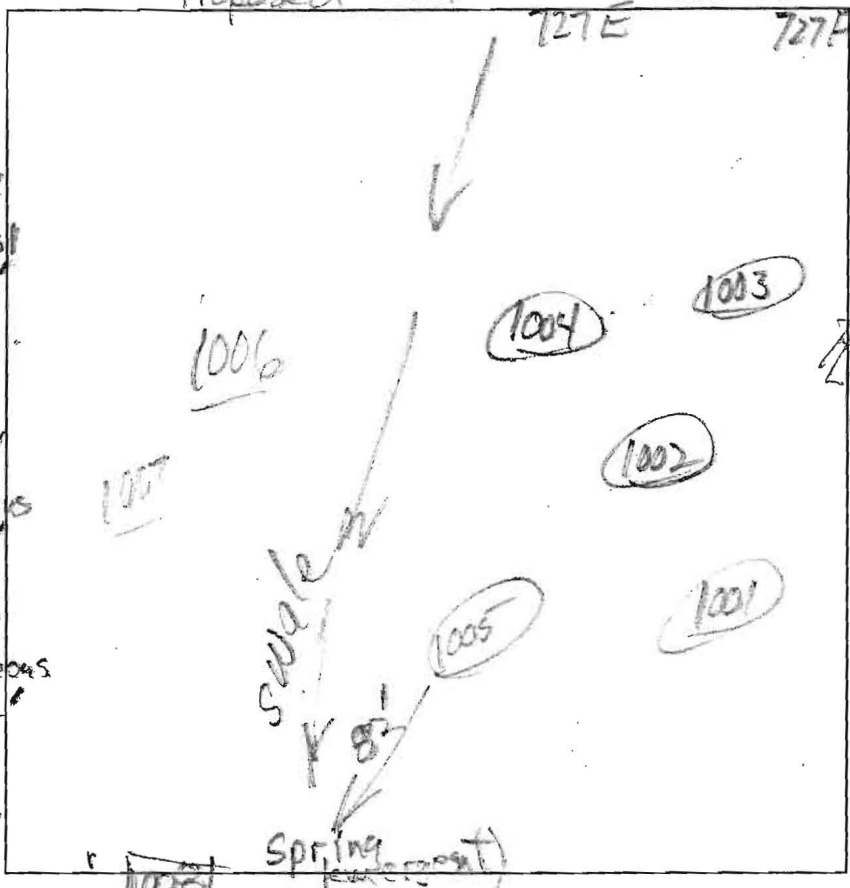
SANITARIAN RB BACKHOE Mike Johnson OTHERS Tim Sosinski
Mike Johnson

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

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

Proposed Lot 1 staked locations

1004
brn scl
2msbk
few stones
1.4
brn boulders sl
2.4
yel-red
by sl
3.2
dk grey brn
& brn byls
4.7
dk grey ls
2 m pl mica ceous
6.3
brn ls
mica ceous
10
dk brn ls
3 m pl mica ceous
12
1003
bot scl
3msbk
1.4
yel-brn to
yel-red sl
2.8
dk brn
& yellow
jarey ls
20% mica ceous
5
yel red
pale yellow
mica ceous
6.8
17. brn scl
9.5
yel-red
& pale yellow
mica ceous
11.2
dk brn
& dk grey
mica ceous
very moist
13
1002
Very bouldery
Refusal



1001
brn scl
3msbk
To brn scl
& heavy sl
2msbk
3
variegated
sl. w/ strata
of yellow ls
& white & yellow
gris
4.5
brn sl
6
variegated
ls, 1 m pl
mica ceous
10% channels
10.5
dk brn &
dk grey brn
gr ls moist
12
1005
brn scl
2msbk
1
yel brn scl
2
dk brn scl
few stones
6
dk grey
& pale yel-vel
ls, saturate
9
water seeps
7.5
cause in
dk grey
& pale yellow
mica ceous
10.2
saturated

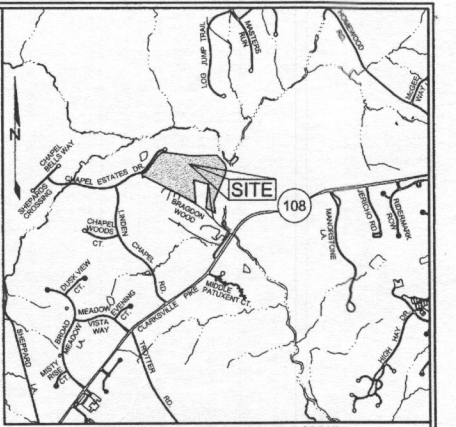
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/FH
7/27/10	1004	5.7' 12'	1:07	1:08	1:09:20	1.3	F
7/27/10	1003	5.6' 12'	1:23	1:25	1:29:30	4.5	P
7/27/10	1001	6' 11.5'	1:59	2:02	2:07	5	P
7/27/10	1005	6'	Visual	saturated ls over water seep			F
7/27/10	1002	2'	Visual	Very bouldery Refusal			F

REMARKS Lot 1 (proposed) staked locations
 SANITARIAN RR BACKHOE Mike Johnson OTHERS Mike Johnson
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

SOILS LEGEND		
SYMBOL	NAME / DESCRIPTION	GROUP
Co	CODRUS AND HATBORO SILT LOAMS, 0 TO 3 PERCENT SLOPES	C
GbB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	B
GbC	GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES	B
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C
GmC	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C
Ha	HATBORO-CODRUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	D
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B

LEGEND

- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREELINE
- PROPOSED TREELINE
- PROPOSED PERCOLATION TEST HOLE, PASSED
- PROPOSED PERCOLATION TEST HOLE, FAILED
- PROPOSED PERCOLATION TEST HOLE
- SOIL BOUNDARY
- APPROXIMATE FOREST CONSERVATION EASEMENT

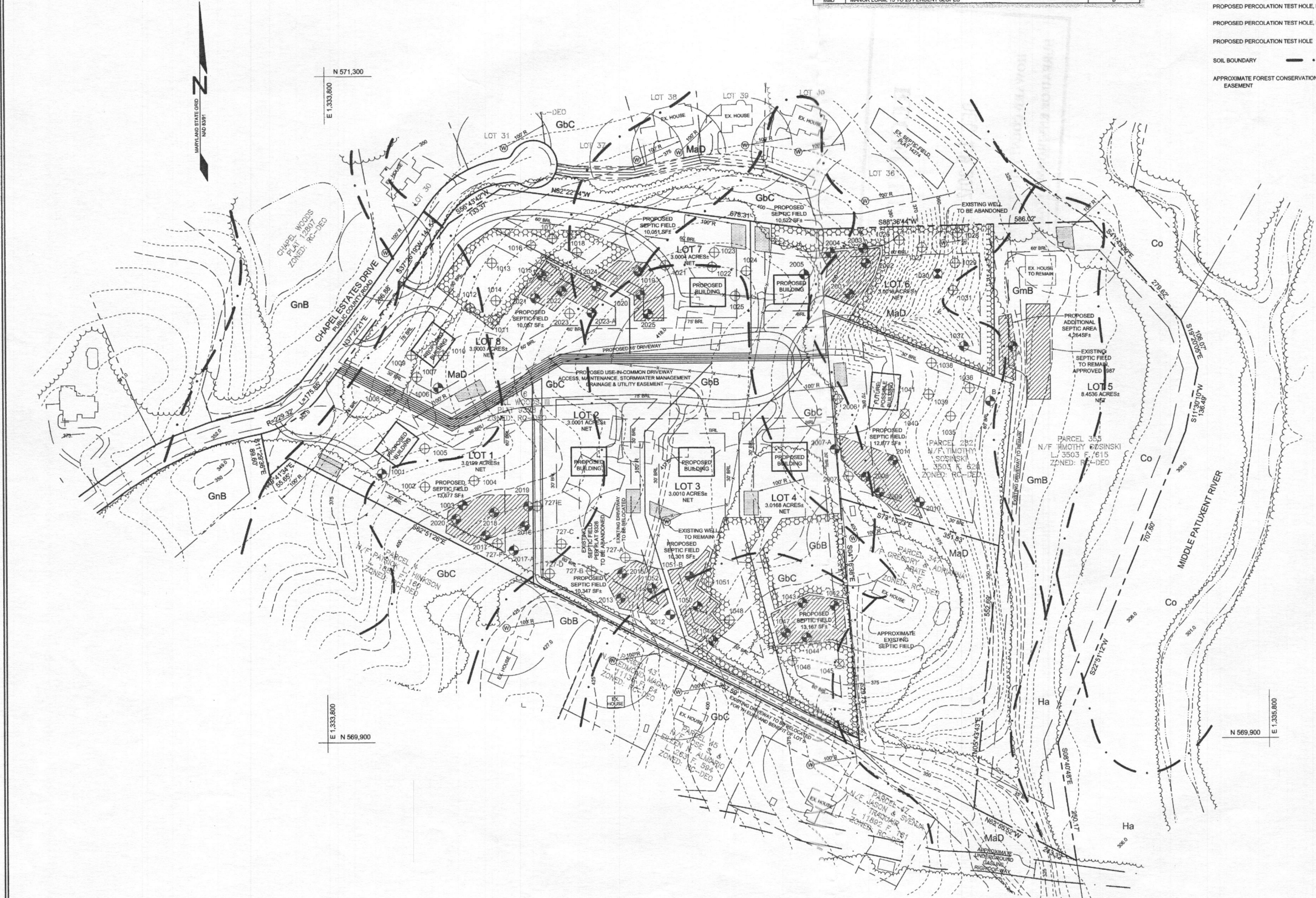


VICINITY MAP
SCALE: 1"=2000'

GENERAL NOTES

1. SUBJECT PROPERTY ZONED RC-DEO PER 02/02/04 COMPREHENSIVE ZONING PLAN.
2. TOTAL AREA OF PROPERTY = 33.55 AC.
3. PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
4. THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT, OF AT LEAST 10,000 SF AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). 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 ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
5. BOUNDARY SHOWN HEREON IS BASED ON HOWARD COUNTY TAX MAP INFORMATION.
6. THE TOPOGRAPHY SHOWN ON LOT 7 HAS BEEN FIELD RUN BY SLL, ADCOCK & ASSOCIATES, LLC IN APRIL, 2010. THE REMAINING EXISTING TOPOGRAPHY IS BASED ON HOWARD COUNTY AERIAL TOPOGRAPHY FROM 1953 AND WILL BE FIELD VERIFIED PRIOR TO THE PERCOLATION CERTIFICATION PLAN. WAS FIELD VERIFIED IN JANUARY 2011.
7. PROPERTY ADDRESS: 1175 BRADDOCK WOOD
8. DEED REFERENCE: LIBER 3503, FOLIO 615; LIBER 3503 FOLIO 620, PLAT 8328
9. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
10. ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
11. ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS HAVE BEEN FIELD LOCATED.
12. THE HOUSE ON EXISTING LOT 6, CHAPEL WOODS II, AND ITS SEPTIC SYSTEM ARE TO BE ABANDONED ACCORDING TO THE HOWARD COUNTY HEALTH DEPARTMENT REGULATIONS. THE WELL LOCATED ON EXISTING LOT 6 WILL REMAIN TO BE USED FOR PROPOSED LOT 3. THE EXISTING HOUSE LOCATED ON PARCEL 353 IS TO REMAIN. THE SEPTIC SYSTEM SERVING THIS HOUSE IS TO REMAIN AND HAS A 10,000 SQUARE FOOT SEPTIC EASEMENT APPROVED IN 1987. THE WELL SERVING PARCEL 353 WILL BE PROPERLY ABANDONED AND A NEW ONE CONSTRUCTED IN THE LOCATION SHOWN.
13. MARYLAND DEPARTMENT OF THE ENVIRONMENT HAS APPROVED A VARIANCE TO ALLOW SEWAGE DISPOSAL SYSTEMS LOCATED ON LOTS 1, 2, 3, 4, 7 & 8 TO BE LOCATED UPGRADIENT FROM THE PRIVATE WATER SUPPLY ON LOT 1 AND NEIGHBORING PARCELS 30, 31, 37, 45 & 47. THIS IS SUBJECT TO THE FOLLOWING CONDITIONS: AN ADVANCED PRE-TREATMENT SYSTEM, WHICH UTILIZES BEST AVAILABLE TECHNOLOGY TO PERFORM NITROGEN REDUCTION, MUST BE INSTALLED ON THE SEWAGE DISPOSAL SYSTEMS ON LOTS 1, 2, 3, 4, 7 & 8. THE WELLS ON LOT 1, 5 & 8 MUST BE CONSTRUCTED USING A STEEL WELL CASING, WHICH MUST BE INSTALLED AT A MINIMUM DEPTH OF 50' BELOW GROUND SURFACE OR 10' INTO THE COMPETENT BEDROCK. A LOW PRESSURE DOSING SYSTEM WILL BE REQUIRED FOR THE SEWAGE DISPOSAL SYSTEMS ON LOTS 1, 2, 3, 4, 7 & 8.
14. THE PURPOSE OF THIS PLAN IS TO ESTABLISH A MINIMUM 10,000 SQUARE FOOT SEPTIC EASEMENT FOR THE LOTS SHOWN.
15. ALL WELLS MUST BE DRILLED PRIOR TO FINAL RECORD PLAT RECORDATION.

Columbia Builders
P O Box 999
Columbia Md 21044
11807 Chapel Estates Dr.
Clarksville, 21029
6 Bedrooms



PLAN VIEW
SCALE: 1"=100'

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

Approved by Peter Beiseman 3/18/2011
COUNTY HEALTH OFFICER DATE
HOWARD COUNTY HEALTH DEPARTMENT

PERCOLATION CERTIFICATION PLAN
CHAPEL RISE
LOTS 1 THRU 8 AND PARCEL 282
A SUBDIVISION OF PARCEL 353 AND A RESUBDIVISION OF LOT 6,
CHAPEL WOODS II, PLAT #9328

TAX MAP 29 GRID 13 5TH ELECTION DISTRICT PARCEL 26, 66, 282 & 353 HOWARD COUNTY, MARYLAND

Sill · Adcock & Associates · LLC
Engineers · Surveyors · Planners
3300 North Ridge Road, Suite 160
Ellicott City, Maryland 21043
Phone: 443.325.7682 Fax: 443.325.7685
Email: info@salland.com

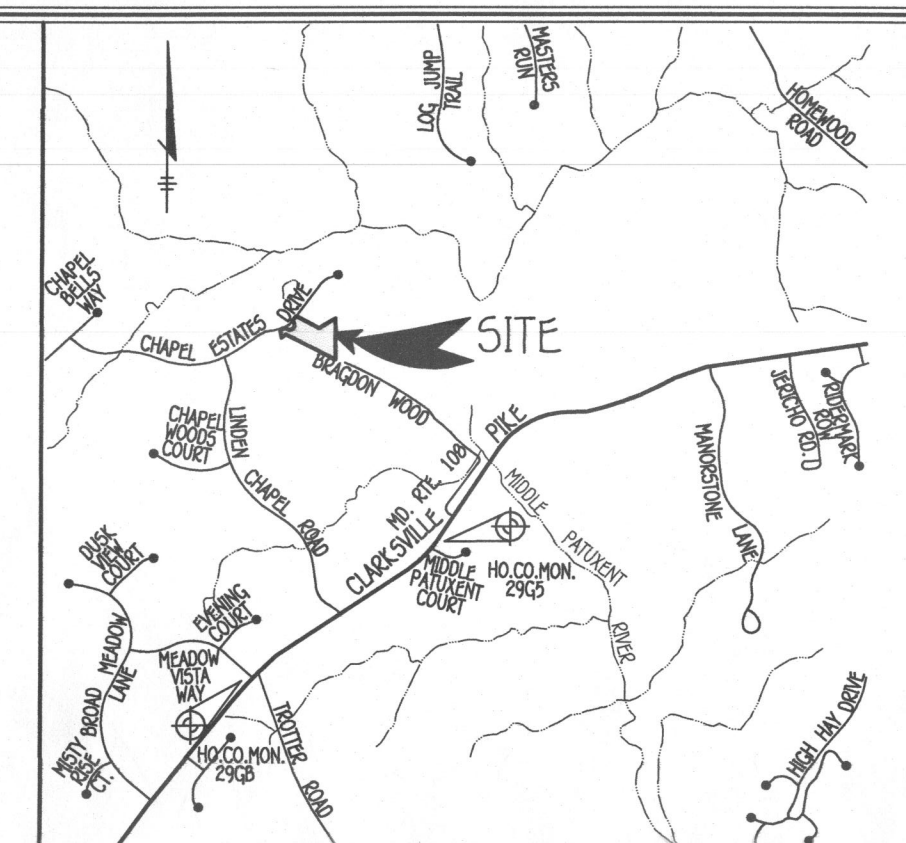
DESIGN BY: PS
DRAWN BY: PS
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MARCH 10, 2011
PROJECT #: 09-073
SHEET #: 1 of 1

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2011

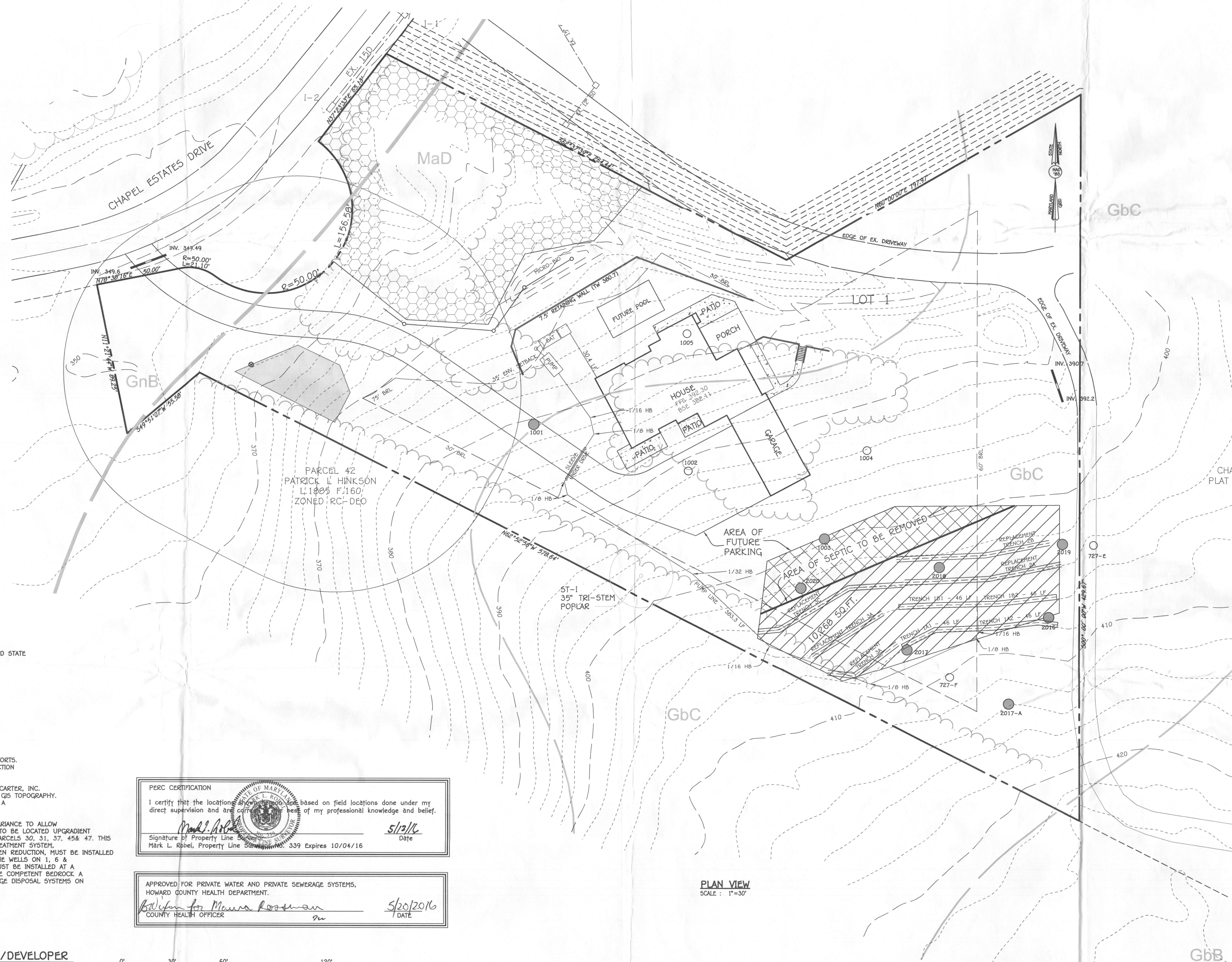
LEGEND

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

SOILS LEGEND		
SOIL	NAME	CLASS
GbB	Gladstone loam, 3 to 8 percent slopes	B
GbC	Gladstone loam, 8 to 15 percent slopes	B
GnB	Qlenville-Baile silt loams, 0 to 8 percent slopes	C
MaD	Manor loam, 15 to 25 percent slopes	B



VICINITY MAP
SCALE: 1" = 2000'
HO. CO. MD. ADC MAP 4934, GRID C3



GENERAL NOTES:

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 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 ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2. ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
3. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
4. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM ALL REASONABLE EFFORTS.
5. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
6. BOUNDARY OF LOT BASED ON PLAT #22022.
7. FIELD RUN TOPOGRAPHIC SURVEY CONDUCTED BY FISHER, COLLINS & CARTER, INC. DATED DECEMBER, 2014 AND SUPPLEMENTED BY HOWARD COUNTY GIS TOPOGRAPHY.
8. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
9. DEED REFERENCE LIBER 14951 FOLIO 453.
10. MARYLAND DEPARTMENT OF THE ENVIRONMENT HAS APPROVED A VARIANCE TO ALLOW SEWERAGE DISPOSAL SYSTEMS LOCATED ON LOTS 1, 2, 3, 4, 5, 9 TO BE LOCATED UPGRADIENT FROM THE PRIVATE WATER SUPPLY ON LOT 1 AND NEIGHBORING PARCELS 30, 31, 37, 45 & 47. THIS IS SUBJECT TO THE FOLLOWING CONDITIONS AN ADVANCED PRE-TREATMENT SYSTEM, WHICH UTILIZES BEST AVAILABLE TECHNOLOGY TO PERFORM NITROGEN REDUCTION, MUST BE INSTALLED ON THE SEWERAGE DISPOSAL SYSTEMS ON LOTS 1, 2, 3, 4, 5, 9. THE WELLS ON 1, 6 & 9 MUST BE CONSTRUCTED USING A STEEL WELL CASING, WHICH MUST BE INSTALLED AT A MINIMUM DEPTH OF 50' BELOW GROUND SURFACE OR 10' INTO THE COMPETENT BEDROCK. A LOW PRESSURE DOSING SYSTEM WILL BE REQUIRED FOR THE SEWERAGE DISPOSAL SYSTEMS ON LOTS 1, 2, 3, 4, 5, 9.
11. SEPTIC TRENCH DESIGN SHOWN IS BASE ON 7 BEDROOMS.

PERC CERTIFICATION

I certify that the locations shown on this plan are based on field locations done under my direct supervision and are correct to the best of my professional knowledge and belief.

Signature of Property Line Surveyor: *Mirk L. Kibel* Date: 5/12/16

Mirk L. Kibel, Property Line Surveyor, License No. 339 Expires 10/04/16

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

Signature for: *Maura Koshman* Date: 5/20/2016

COUNTY HEALTH OFFICER

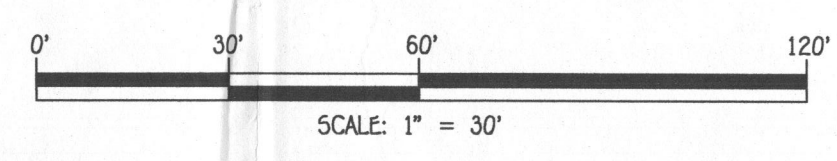
PLAN VIEW
SCALE: 1" = 30'

PURPOSE OF THIS AMENDED PERC PLAN IS TO REDUCE THE SIZE OF THE SEPTIC EASEMENT TO ALLOW FUTURE PARKING AND POSSIBLE RETAINING WALL.

AMENDED PERC RECERTIFICATION PLAN
CHAPEL RISE, LOT 1
11807 CHAPEL ESTATES DRIVE
ZONED RC-DEO PLAT NO. 22022
TAX MAP NO.: 29 GRID NO'S.: 8 & 14
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: MAY 2016
SHEET 1 OF 1

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CONTINENTAL SQUARE OFFICE PARK - 10273 BALDORRE NATIONAL PKE.
ELLCOTT CITY, MARYLAND 21042
(410) 461-2895

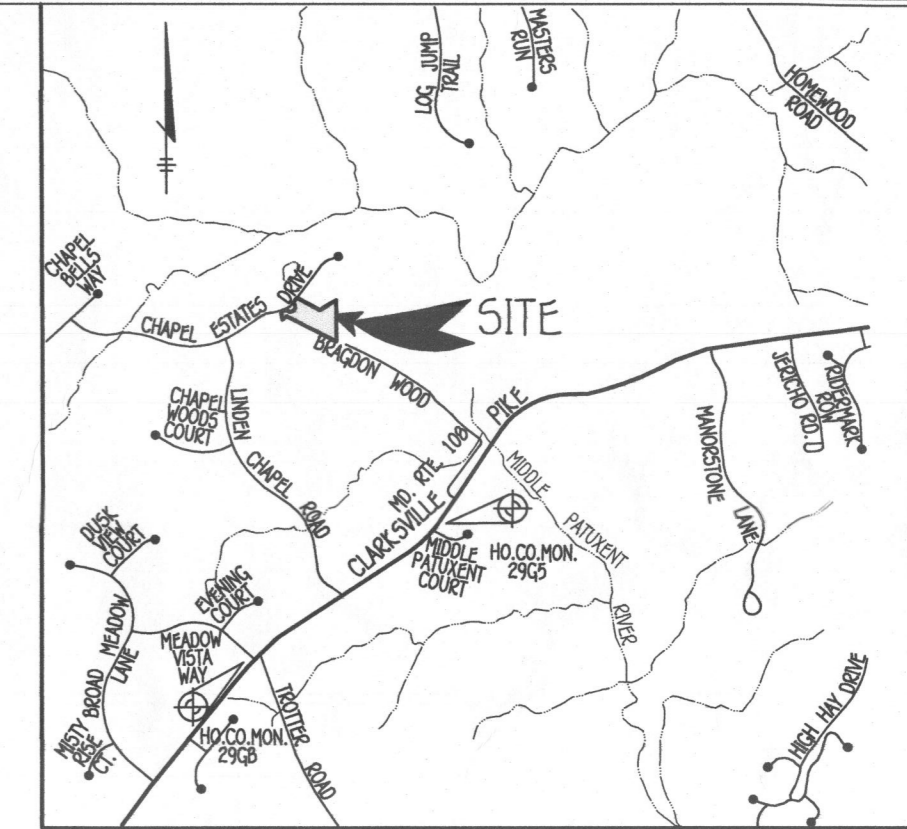
OWNER/DEVELOPER
KAMBIZ GHOZATI
8055 HIGH CASTLE ROAD
ELLCOTT CITY, MARYLAND 21043
410-279-7484



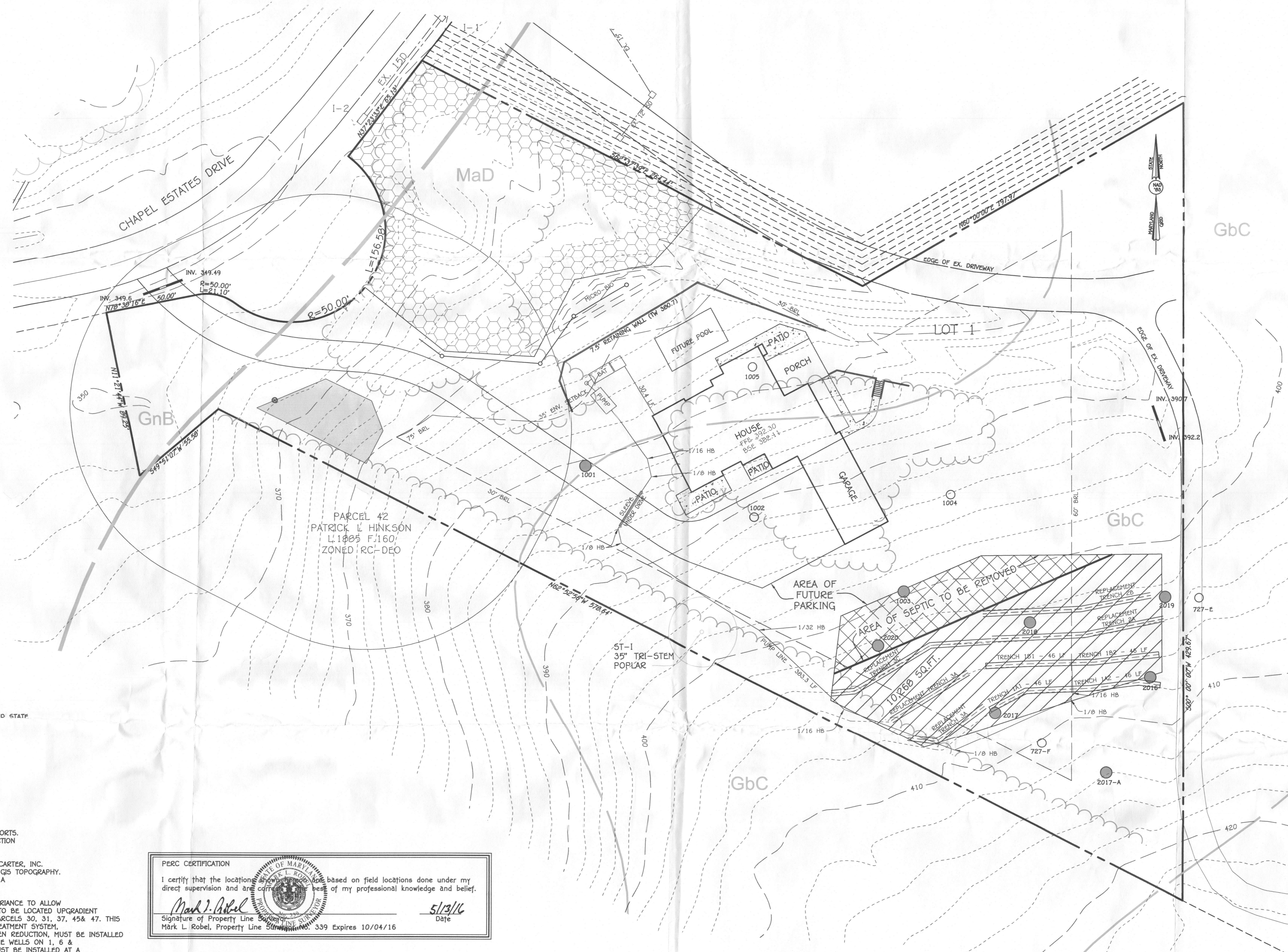
I:\2012\12060\dwg\12060 Lot 1 Perc Plan.dwg, 5/13/2016 1:46:42 PM, 1:1

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

SOILS LEGEND		
SOIL	NAME	CLASS
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GbC	Gladesboro loam, 8 to 15 percent slopes	B
GnB	Glenville-Baile silt loams, 0 to 8 percent slopes	C
MaD	Manor loam, 15 to 25 percent slopes	B



VICINITY MAP
SCALE: 1" = 2000'
HO. CO. MD. ADC MAP 4934, GRID C3



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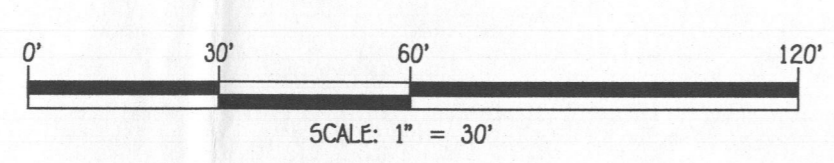
Mark L. Robel
Signature of Property Line Surveyor
Mark L. Robel, Property Line Surveyor No. 339 Expires 10/04/16

5/13/16
Date

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

Maura Koshman
Signature of County Health Officer
Maura Koshman
DATE: 5/20/2016

PLAN VIEW
SCALE: 1"=30'



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SOURCE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
410-881-8999

OWNER/DEVELOPER
KAMBIZ GHOZATI
8055 HIGH CASTLE ROAD
ELICOTT CITY, MARYLAND 21043
410-279-7484

PURPOSE OF THIS AMENDED PERC PLAN IS TO REDUCE THE SIZE OF THE SEPTIC EASEMENT TO ALLOW FUTURE PARKING AND POSSIBLE RETAINING WALL.

AMENDED PERC RECERTIFICATION PLAN
CHAPEL RISE, LOT 1
11807 CHAPEL ESTATES DRIVE
ZONED RC-DEO PLAT NO. 22022
TAX MAP NO.: 29 GRID NO'S.: 8 & 14
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: MAY 2016
SHEET 1 OF 1