



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045
Main: 410-313-2640 | 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

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME ESTATES AT RIVER HILL

PROPERTY ADDRESS 13550 ALLNUTT Lane, Highland MD 20777

TAX ACCOUNT # 05-392284 TAX MAP 34 GRID 23 PARCEL 389 LOT NO. 4 PROPOSED LOT SIZE (ACRES) ONE ACRE
ZONING CATEGORY RR-DEU TIER III

PROPERTY OWNER(S) Rene Gelber

DAYTIME PHONE 301-919-2615 CELL 301-919-2615 EMAIL N/A

MAILING ADDRESS 13550 ALLNUTT LN, Highland, MD 20777

APPLICANT Tim Keane RELATIONSHIP TO OWNER: CONTRACT purchaser

DAYTIME PHONE 410-480-0023 CELL 443-324-9806 MAIL TKeane@trinityhomes.com

MAILING ADDRESS 3675 Park Ave E.C. 21043

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

PROPERTY:

- SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: 17
SUBDIVISION CLASSIFICATION (PER DEPT. OF PLANNING AND ZONING) MAJOR MINOR
CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
REPAIR OR REPLACE FAILING OSDS
UPGRADE EXISTING OSDS

BUILDING:

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

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.

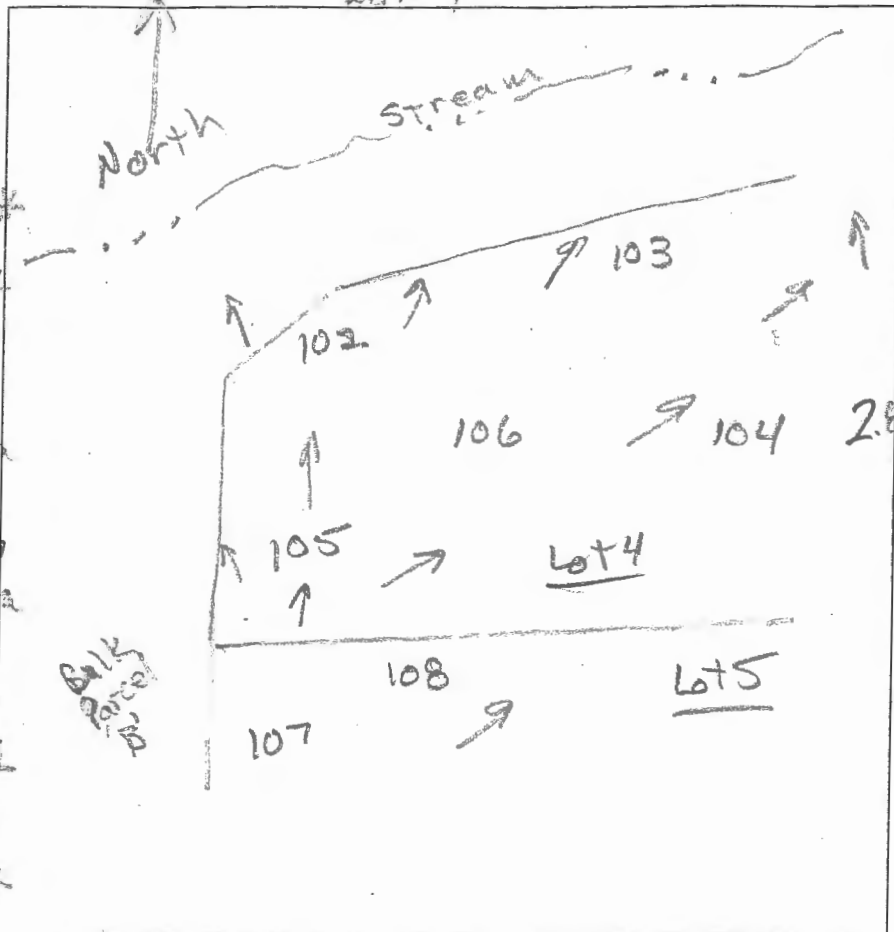
By signature of this application, I hereby grant Howard County Health Department officials the right to enter onto the property for the purpose of inspecting the property as directly related to the requested permit/service.

Signature of applicant: T. Keane

Date: 10/28/15

AVP

Lot 4



103

0.2 dk grey-brn L
3 v f s b k
0.6 dk, brn L, 2 f s b k
1 brn L, 3 m s b k
4 brn & yel-red
fsl, thick platy
many mica
11 brn & red-yel
ls thick platy
many mica

102

0.4 dk grey-brn L
3 v f s b k
0.8 brn L, 2 f s b k
few mica
1 brn sl, 1 m s b k
common mica

105

dk grey-brn L
5 f s b k
grey-brn L
2 f s b k

11 brn-brn sl, 2 m s b k, many mica

19 yellow, brn
yel-red & dk brn.
ls, thick platy
common mica

5 brn & pale brn ls, thick plates, 10% flags, refusal

106

2 f s b k to 2 f s b k
brn L, 2 f s b k
brn sl, 2 m s b k
1.5 yellow red
& brn ls
thick platy
few to com. mica
2.8 yellow & brn
ls, thick platy

104

2.5 dk grey-brn
L 3 v f s b k
12 grey-brn L
2 f s b k
2 brn L, 2 m s b k
brn L, thick
clay skin platy
SS
2 red-brn
chsl, com
yel-red
sl, com dense
few mica

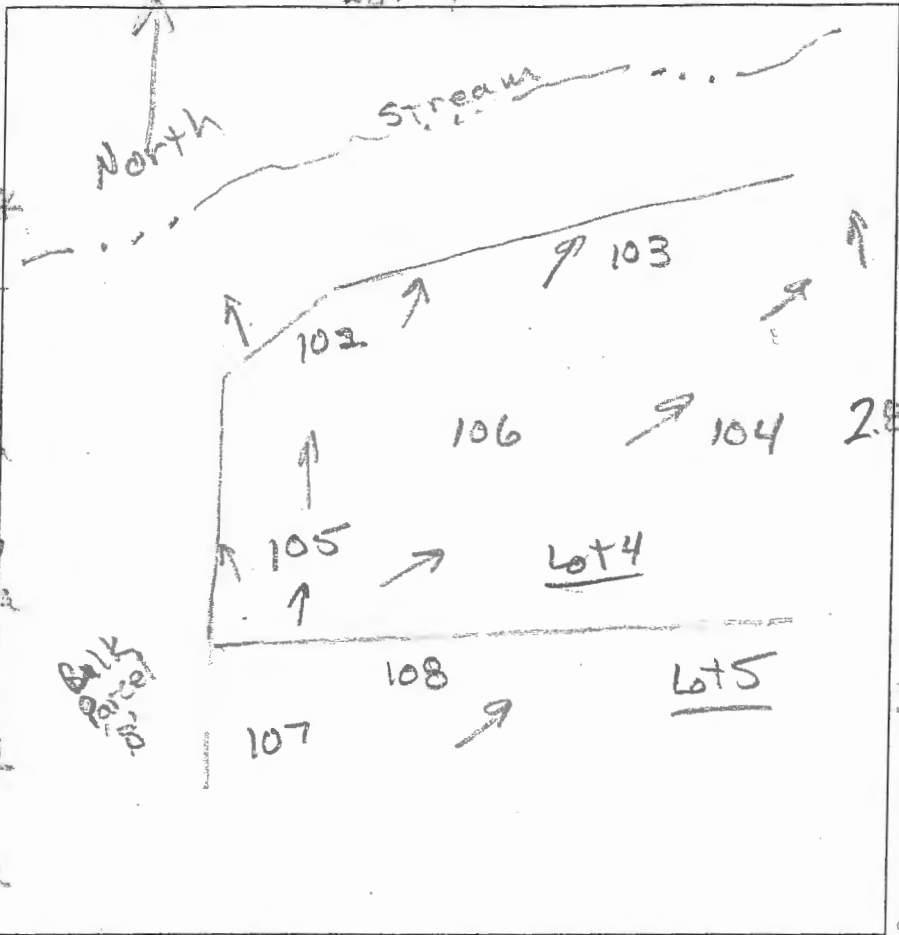
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
12/3/5	103	5.5' / 11'	2:13	2:16	2:20	4	P
12/3/5	106	11'	Visual		1.5' to 7' 1.2 gnd/cr		P
12/8/5	102	4.8' / 11'	2:49	2:51	2:56	5	P
12/8/5	104	7' / 11'	3:06	3:09	3:14	5	P
12/8/5	105	9'	Visual		2'-5' sider 1.2 gnd/cr		P

REMARKS

SANITARIAN R. Bricker BACKHOE Trinity Homes OTHERS Tim Keane
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

AP

Lot 4



103

0.2 dk grey-brn L
3 v 2 sbk
0.6 dk, brn L, 2 sbk
1 brn L, 3 msbk
4 brn & yel-red
fsl, thick platy
many mica
brn & red yel
ls thick platy
many mica

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0.4 dk grey-brn L
3 v 2 sbk
brn L 2 sbk
few mica
0.8 brn sl, 1 msbk
common mica

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dk grey-brn L
3 v 2 sbk
grey-brn L 2 sbk
brn-brn sl, 2 msbk, many mica

106
dk grey-brn L
2 v 2 sbk to 2 v 2 sbk
brn L, 2 v 2 sbk
brn sl, 2 msbk
1.5 yellow red
brn ls
thick platy
few to common mica
yellow & brn
ls, thick platy

104

3.2 dk grey-brn
L 3 v 2 sbk
12 grey-brn L
2 v 2 sbk
brn L, 2 msbk
brn L, thick
clay skin platy
SS
2' red-brn
dist. mica
yel-red
sl, dense
few mica
yel-red
pale brn ls
thick platy
common mica

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
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12/8/5	104	7' / 11'	3:06	3:09	3:14	5	P
12/8/5	105	9'	Visual		2'-5' Sidewalk 1:2' gnd/ea		P

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SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: ~~Alhnut Lane~~ 13621 Noble Way

Subdivision: ~~Getter Property~~ Lot: 4
The Estates at River Hill

105-106 Initial system: Application rate: 1.2 Effective area beginning depth: 2' Bottom maximum depth: 5'

102 & 106 1st Replacement: Application rate: 1.2 Effective area beginning depth: 2' Bottom maximum depth: 7'

103 2nd Replacement: Application rate: 1.2 Effective area beginning depth: 4' Bottom maximum depth: 7'

Design Flow = 150 gallons per day per bedroom

Design flow ÷ application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage ÷ trench width

Sidewall reduction credit formula:

$\frac{W + 2}{W + 1 + 2D} \times 100 =$ Percent of length of standard trench where W=trench width and D= depth between effective area beginning depth and trench bottom.

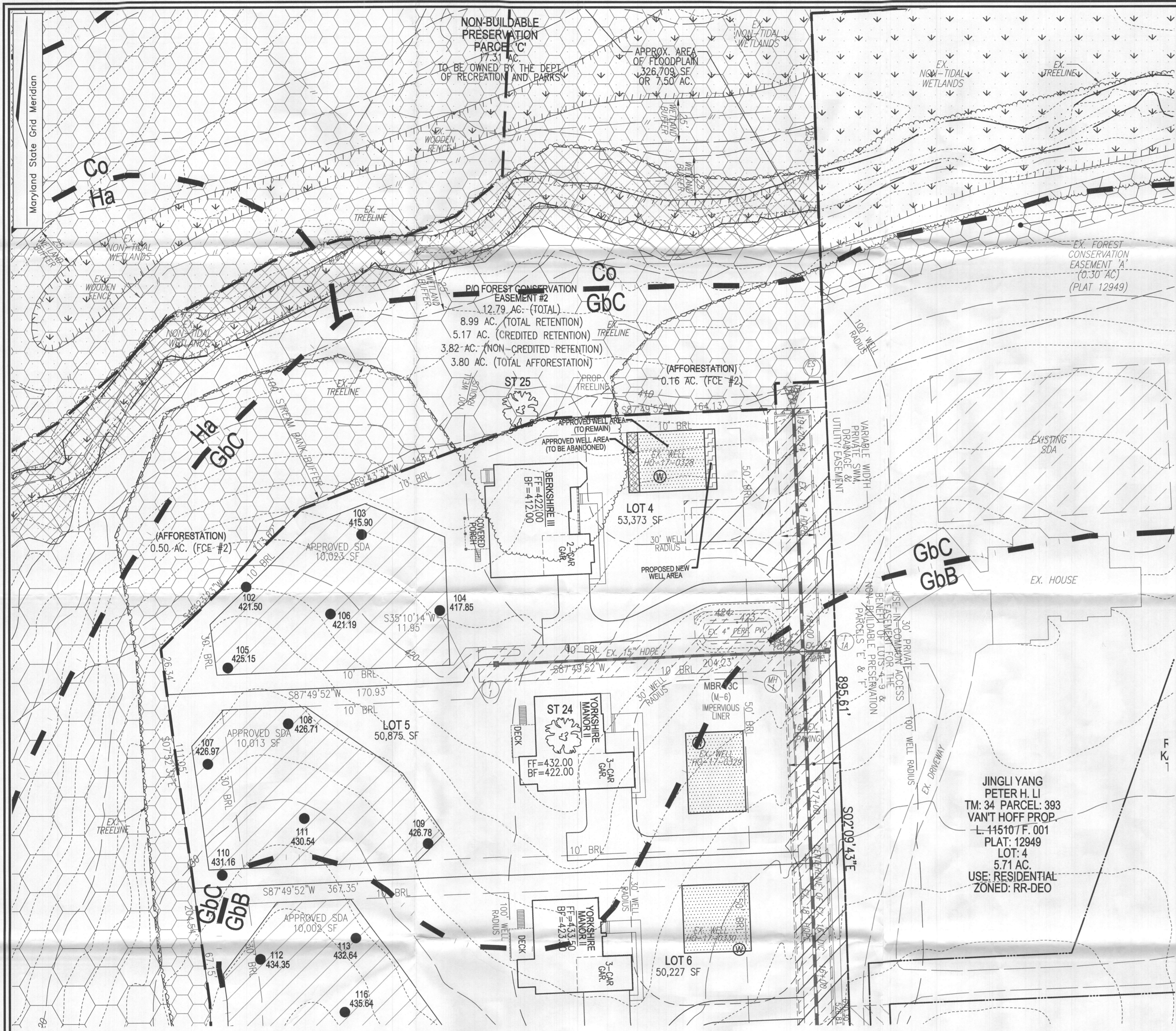
Standard design requirements:

- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D + W up to a maximum spacing of 18'.
- Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
- Maximum trench length is 100'
- Maximum pipe depth is 4'

Additional requirements:

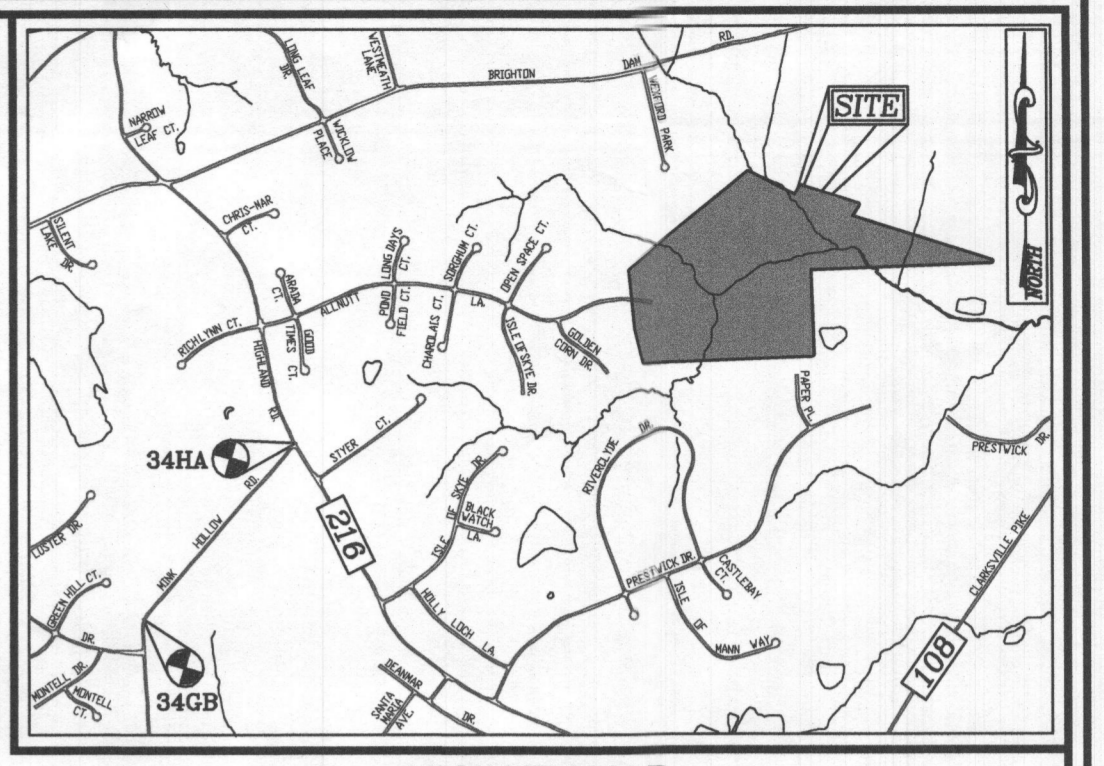
~~BAT unit~~ & Pump/Pump Chamber

Approved: R Bricker Date: 6/8/16



LEGEND:

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- ADJACENT PROPERTY LINE
- EXISTING EDGE OF PAVING
- EXISTING STREAM
- EXISTING STREAM BUFFER
- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING SPECIMEN TREES
- EXISTING WOOD FENCE
- EX. PUBLIC 100-YEAR FLOOD PLAIN
- PROP. PRIVATE USE-IN-COMMON ACCESS EASEMENT
- PROP. PRIVATE SWM, DRAINAGE & UTILITY EASEMENT
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- APPROVED SEWAGE DISPOSAL AREA (SDA)
- APPROVED WELL AREA (TO REMAIN)
- APPROVED WELL AREA (TO BE ABANDONED)
- PROPOSED NEW WELL AREA
- ⊙ EXISTING WELL
- PASSED PERC. TEST
- ⊙ FAILED PERC. TEST



VICINITY MAP
SCALE: 1"=2000'
ADC MAP: PAGE: 31 / GRID: B2, B3, & C2

BENCHMARKS
HOWARD COUNTY BENCHMARK 34GB (CONC. MON.)
N 55366.73 E 1317752.53 ELEV. 505.18
LOCATION: MINK HOLLOW RD. 0.45 MI. SW OF HIGHLAND RD.
HOWARD COUNTY BENCHMARK 34HA (CONC. MON.)
N 555780.15 E 1319355.57 ELEV. 535.23
LOCATION: CORNER OF HIGHLAND RD. & MINK HOLLOW RD.

GENERAL NOTES

1. THIS SUBJECT PROPERTY IS ZONED RR-DEO.
2. THE PROJECT BOUNDARY IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY ROBERT H. VOGEL ENGINEERING, INC., DATED JULY 2016.
3. DEED REFERENCE: LIBER 18487 FOLIO 262
4. THE EXISTING TOPOGRAPHY SHOWN HEREON IS TAKEN FROM HOWARD COUNTY GIS AND SUPPLEMENTED WITH FIELD RUN SURVEYS PREPARED BY ROBERT H. VOGEL ENGINEERING, INC., DATED MARCH AND MAY OF 2016.
5. SOIL TYPES SHOWN HEREON ARE FROM THE USDA WEB SOIL SURVEY.
6. ALL WELLS AND SEPTIC SYSTEMS WITHIN 100' FROM THE PROPERTY BOUNDARIES HAVE BEEN SHOWN.
7. ANY CHANGE TO A PRIVATE SEWERAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
8. ADJUSTMENT TO THE PRIVATE SEWERAGE AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
9. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
10. EXISTING WELLS AND/OR SEWERAGE AREAS AND COMPONENTS WITHIN 200 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
11. ALL BUILDING SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
12. THE PURPOSE OF THIS PERCOLATION CERTIFICATION REVISION PLAN IS TO RECONFIGURE THE APPROVED WELL AREA FOR LOT 4 IN ORDER TO ACCOMMODATE A NEW HOUSE TYPE.

**JINGLI YANG
PETER H. LI
TM: 34 PARCEL: 393
VAN T HOFF PROP.
L-115107F.001
PLAT: 12949
LOT: 4
5.71 AC.
USE: RESIDENTIAL
ZONED: RR-DEO**

PLAN VIEW
SCALE: 1"=30'

THIS AREA DESIGNATES A PRIVATE SEWERAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. 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 THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE AREA. RECORDATION OF A MODIFIED SEWERAGE AREA SHALL NOT BE NECESSARY.

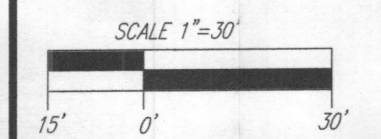
SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	ERODIBLE
BsA	BALE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	.37	YES
Cs	COGORUS AND HARBORO SILT LOAMS, 0 TO 3 PERCENT SLOPES	A	.32	NO
GbC	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	A	.28	NO
GbC	GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES	A	.28	NO
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	.43	YES
Hs	HARBORO-COGORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	B/D	.37	YES

NOTE:
HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.
Michael J. Dean
COUNTY HEALTH OFFICER
DATE: 5/7/21

PERCOLATION CERTIFICATION:
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.
Eric R. Quintanilla
ERICK R. QUINTANILLA
PROFESSIONAL LAND SURVEYOR, MD REG. NO. 21408
DATE: 03/26/2021



*Signed
3/26/21*

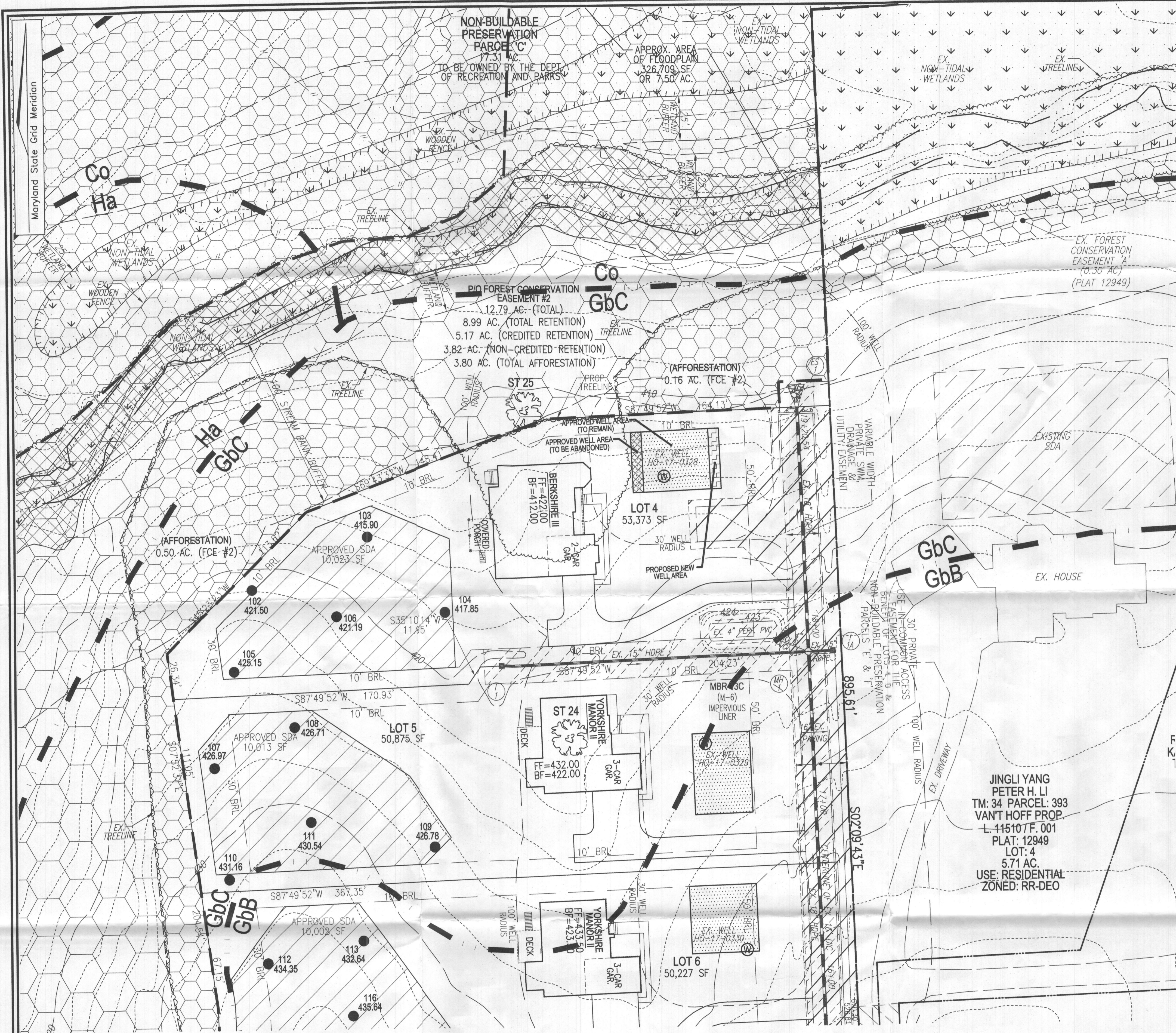
PERCOLATION CERTIFICATION REVISION PLAN

THE ESTATES AT RIVER HILL - LOT 4
13621 NOBLE WAY
HIGHLAND, MD 20777

PARCEL: 389 TAX MAP: 34 GRID: 23 5TH ELECTION DISTRICT ZONED: RR-DEO L. 18487 / F. 262 HOWARD COUNTY, MARYLAND

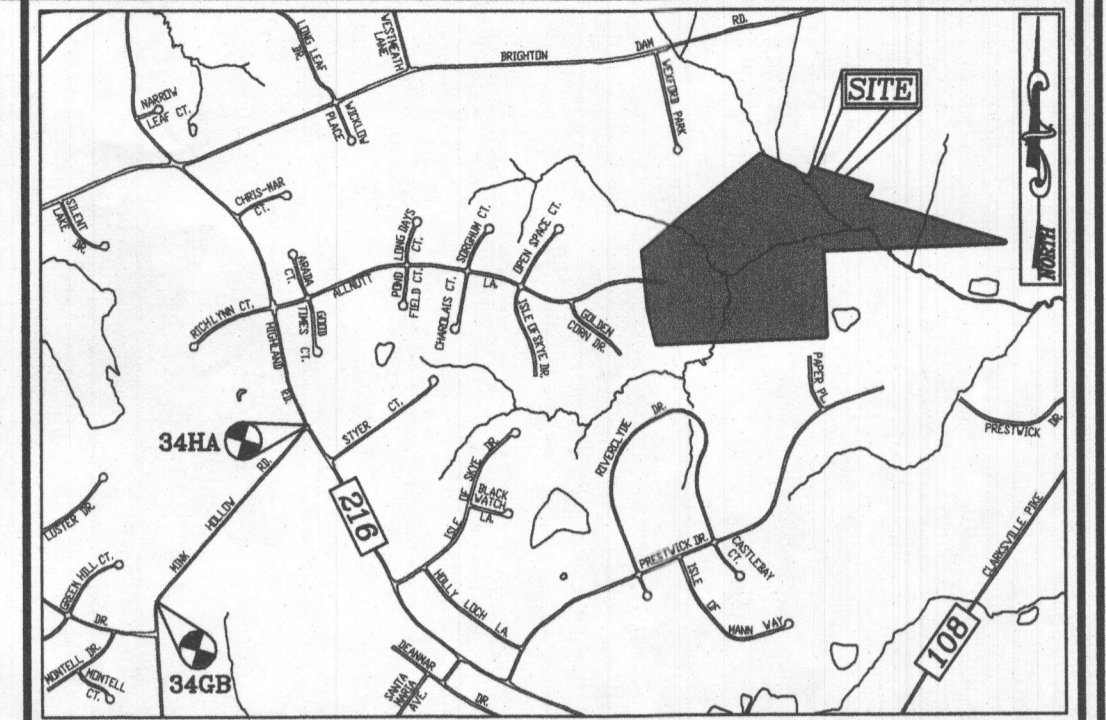
VOGEL ENGINEERING
+
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE
DESIGN BY: RHV
DRAWN BY: JMR
CHECKED BY: RHV
DATE: MARCH 2021
SCALE: AS SHOWN
W.O. NO.: 15-39
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. 18183 EXPIRATION DATE: 09-27-2022



LEGEND:

- PROPERTY LINE
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*Signed
3/26/21*

OWNER
ESTATES AT RIVER HILL, LLC
MICHAEL PFAU, MEMBER
3675 PARK AVE., SUITE 301
ELLCOTT CITY, MD 21043
(410) 480-0023

DEVELOPER
TRINITY HOMES MARY LAND, LLC
3675 PARK AVE., SUITE 301
ELLCOTT CITY, MD 21043
(410) 480-0023

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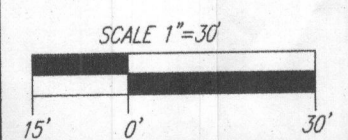
-SOILS INFORMATION FROM USDA WEB SOIL SURVEY WEBSITE
-HOWARD COUNTY SOILS MAP NUMBER 16 - CLARKVILLE NW

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APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS.

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