

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 Savage Property

PROPERTY ADDRESS 2730 Jennings Chapel Rd. Woodbine 21797

TAX ACCOUNT # 327268 TAX MAP 13 GRID 21 PARCEL 109 LOT NO. A PROPOSED LOT SIZE (ACRES) 33

ZONING CATEGORY RL-DEO TIER

PROPERTY OWNER(S) JRNL, LLC

DAYTIME PHONE CELL EMAIL

MAILING ADDRESS 6800 Deerpath Rd, Suite 100, Elkridge, MD 21075

APPLICANT James M. Fraser RELATIONSHIP TO OWNER: Authorized Representative

DAYTIME PHONE 443 433 6287 CELL EMAIL jfraser@hwdhrock.com

MAILING ADDRESS STREET CITY, STATE ZIP

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

PROPERTY:

- Subdivision: Number of lots including residue: 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 unknown 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

DATE

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

September 5, 2019

TO: James Frazier, Applicant

RE: 2730 Jennings Chapel Road, percolation test results and data

Dear Mr Frazier,

Percolation tests were conducted, as scheduled, at 2730 Jennings Chapel Road on August 20 & 21, 2019. These tests were conducted to establish 10,000 sq-ft sewage disposal area (SDA) for three proposed lots and the existing residence within (T.M. 13) Parcel 109 Parcel 1, and for Parcel 109, Parcel 2. The creation of SDA is required in support of a proposed 5-lot subdivision.

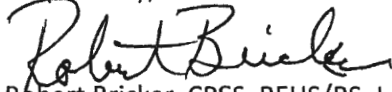
Twenty-five percolation test locations were planned and staked. As several locations failed on proposed Lots 1 and 2, four percolation test locations were added off-plan. In all, 29 percolation test locations were judged and or tested. Staked locations 2, 4, 5, and 6 'FAIL', and added location 27 is a 'FAIL'. These locations that fail are all due to shallow rock. Staked locations 1, and 7 thru 25 'PASS', and added locations 26, 28, and 29 'PASS'.

Locations of percolation tests that 'PASS' are used to define the soils that are suitable for inclusion in an SDA proposed on the Percolation Certification Plan. The results and suitable areas for wastewater discharge may be certified by the Approving Authority's signature of the Percolation Certification Plan. After the Percolation Certification Plan is signed by the Approving Authority, the Health Department staff may consider review of a septic system installation plan and/or various permit proposals for the subject property.

The number of lots having adequate area which may be certified for wastewater disposal is unknown at this time. It is possible that additional testing may be required to identify area for all five lots.

If you have questions related to this report, you may reply to me via email, [rbricker@howardcountymd.gov](mailto:rbricker@howardcountymd.gov) , or call my desk, 410-313-2691.

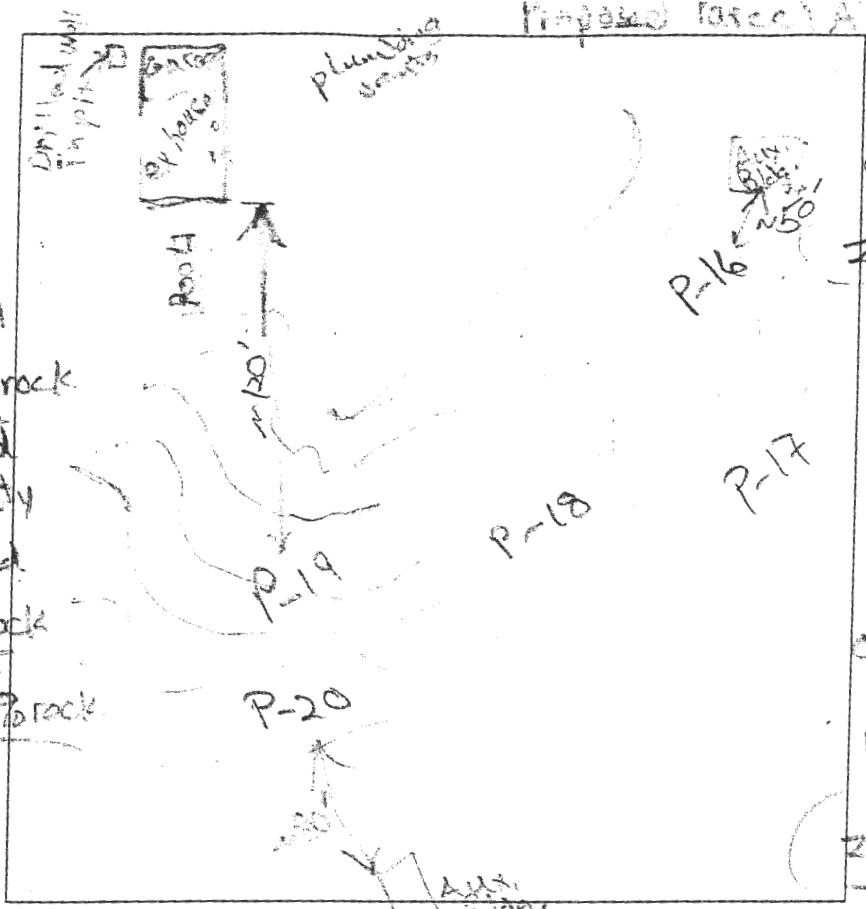
Respectfully,



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

Enclosures: Percolation Test Field Worksheets

Copy: Mark Potter, Benchmark Engineering, Inc.  
Jeffrey Williams, Supervisor, Well & Septic Program  
file



P-16  
 0.4' dk brn sil / 2 v fsbk  
 0.9' brn chsil / 1 fsbk  
 yellow chsil / 1 msbk / 15-25% rock  
 3' yellow & red sil, thin platy  
 8' yellow & red vchsil / 40-50% rock  
 11.5' red-yellow chsil / 15-25% rock

P-17  
 0.2' brn sil / 1 v fsbk  
 0.7' vel-red chsil / 3 fsbk  
 2.9' vel-red vchsil / 2 fsbk  
 6' vel-red vchsil / platy 40-50% rock  
 11' vel-red chsil / thin platy / 10-20% rock  
 R

P-18  
 0.7' dk brn sil / 2 v fsbk  
 1' vel-brn sil / 1 fsbk  
 1.8' vel-brn chsil / 2 fsbk  
 2.9' vel-brn vchsil / platy / 80-90% rock  
 9' yellow & red-yel sil / thin platy  
 12' yellow & red-yel chsil / 20-30 rock

P-20  
 0.2' dk brn sil / 1 v fsbk  
 1' red-brn chsil / 2 fsbk  
 1' vel-red sil / 1 msbk / 5-10% rock  
 2.5' vel-red sil / thin platy / low rock frag.  
 8' vel-red vchsil / thin platy / 40-50% rock  
 13' vel-red sil / thin platy / low rock frag.  
 P-19  
 0.6' dk brn sil / 2 v fsbk  
 1' brn chsil / 2 fsbk  
 4' yellow sil / thin platy / alternating layers of vel-red vchsil / 60-70% rock  
 2' yellow sil / thin platy / low rock frag.

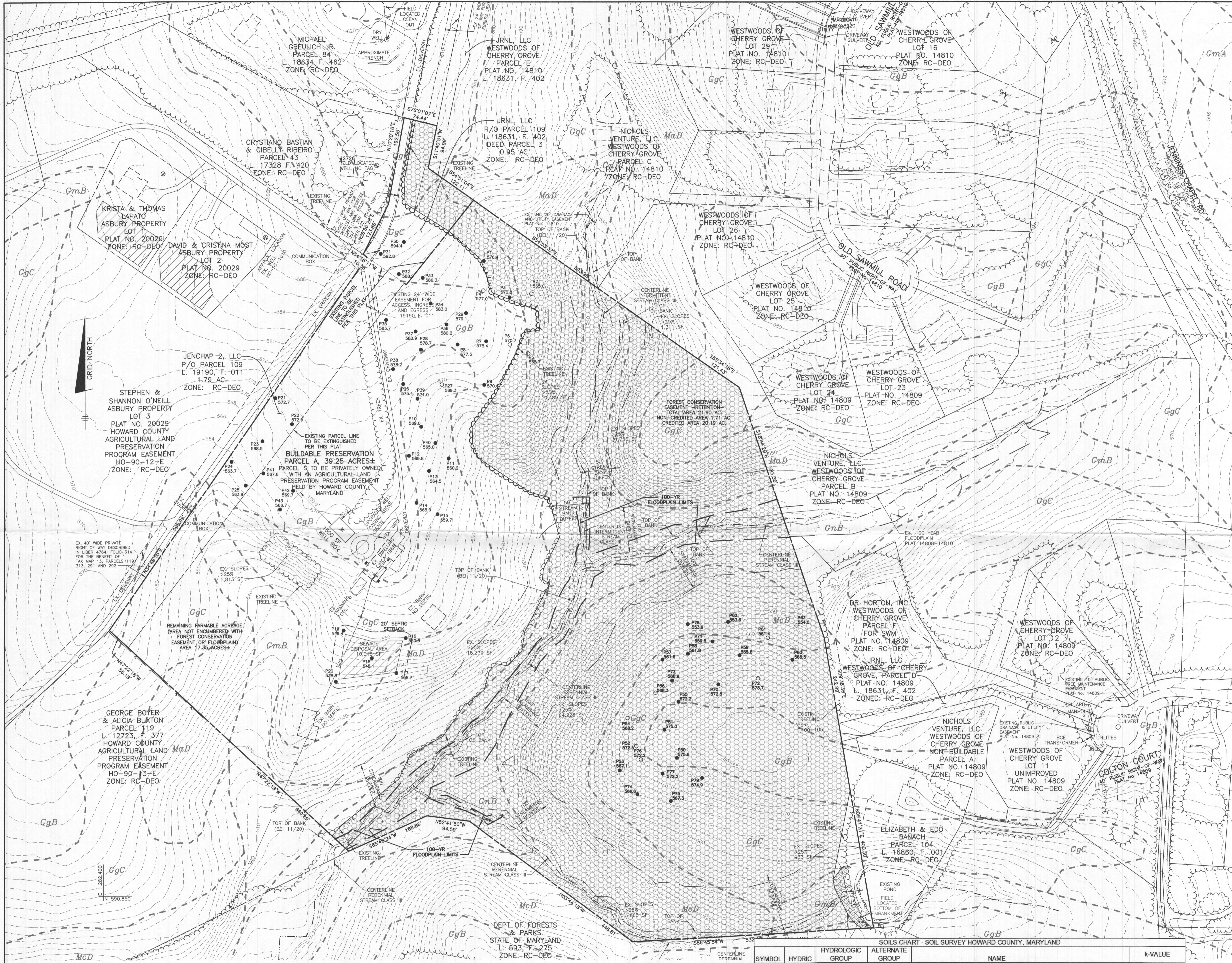
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/20/9	P-16	5' / 3.5'	2:10	2:12	2:15	3	P
8/20/9	P-18	4' / 12'	2:31	2:33	2:38	5	P
8/20	P-17	4' / 11'	4:23	9:27	9:36	9	P
8/20	P-20	3.7' / 13'	9:42	9:44	9:49	5	P
8/20	P-19	4.5' / 13'	10:10	10:12	10:14	2.2	P

REMARKS \_\_\_\_\_

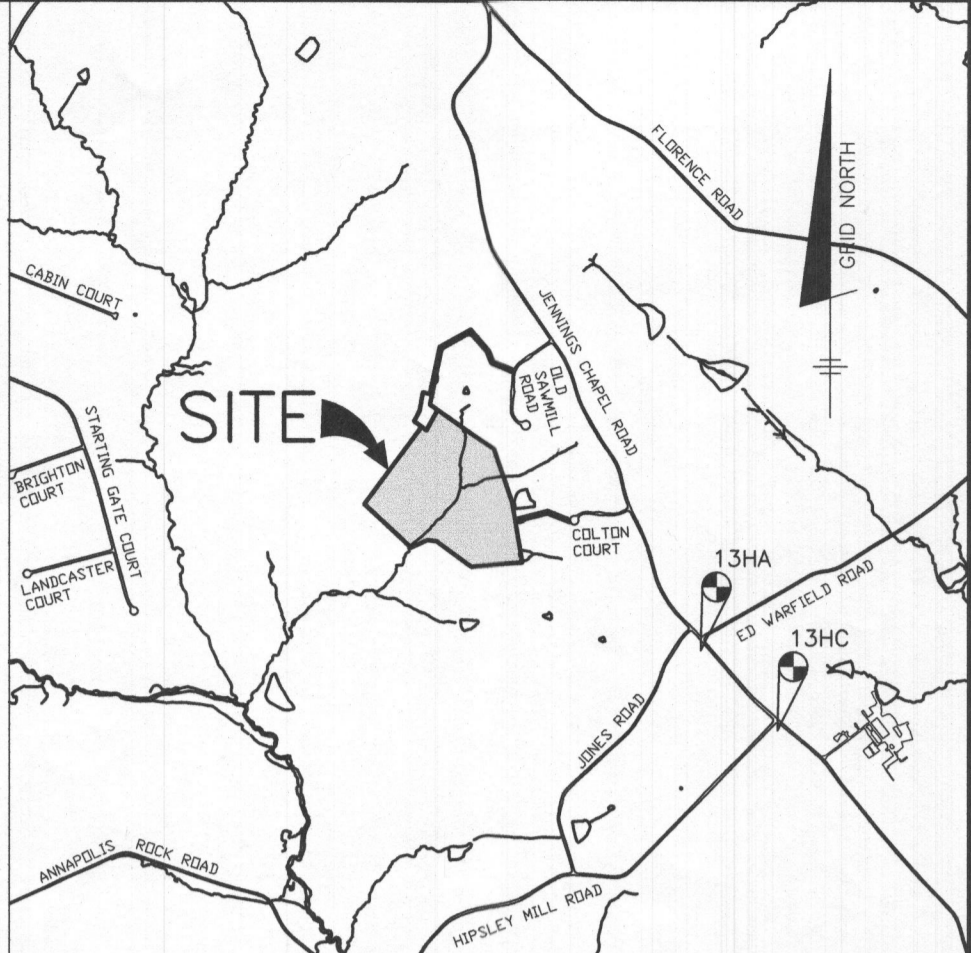
SANITARIAN D. Bricker BACKHOE Hot Shells OTHERS 13'

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

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE S/W \_\_\_\_\_



**BENCH MARKS**  
 HO. CO. #13HA (NAD '83)  
 STANDARD DISC ON CONCRETE MONUMENT  
 2.7' WEST OF EDGE OF PAVING OF JENNINGS CHAPEL ROAD  
 N. 589965.185 E. 1285964.957  
 ELEV. 565.596'  
 HO. CO. #13HC (NAD '83)  
 STANDARD DISC ON CONCRETE MONUMENT  
 SOUTH OF THE INTERSECTION OF JENNINGS CHAPEL ROAD AND HIPSLEY MILL ROAD AND 39.4' NORTHWEST OF C&P POLE 1  
 N. 589119.347 E. 1286752.436  
 ELEV. 563.408'



- LEGEND**
- 410 — PROPERTY BOUNDARY
  - 408 --- GIS CONTOUR LINES
  - MaD SOIL DELINEATION
  - GgC SOIL DELINEATION
  - EXISTING BUILDINGS
  - EXISTING TREELINE
  - STREAM
  - POND
  - SEWAGE DISPOSAL AREA
  - W 1,500 SQ.FT. WELLBOX
  - EXISTING SLOPES >25%
  - PERC TEST - PASS
  - PERC TEST - FAIL
  - FOREST CONSERVATION EASEMENT
  - LIMITS OF 100-YEAR FLOODPLAIN

- GENERAL NOTES**
1. THE PARCEL SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
  2. THE LOT SIZE FOR THIS PARCEL WILL FULFILL THE REQUIREMENTS OF THE ZONING REGULATIONS.
  3. THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE 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 SEWAGE DISPOSAL AREA RECORDED OF A MODIFIED SEWAGE EASEMENT PLAT SHALL NOT BE REQUIRED.
  4. TOPOGRAPHY SHOWN IS BASED ON HOWARD COUNTY GIS AND IS VERIFIED BY BENCHMARK ENGINEERING, INC. AT TIME OF PERCOLATION TEST TAKEOUT.
  5. TO THE BEST OF OUR KNOWLEDGE, ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELL AND/OR SEPTIC HAVE BEEN SHOWN.
  6. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
  7. ALL WELLS TO BE DRILLED PRIOR TO FINAL PLAT APPROVAL IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE 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 PLAN.
  8. PERCOLATION CERTIFICATION FEE RECEIPT NUMBER, REFERENCED IN THE APPROVING AUTHORITY CORRESPONDENCE, IS \_\_\_\_\_.
  9. ANY MICRO-BIORETENTION FACILITIES WITHIN 100 FEET OF A WELL, AS MEASURED FROM THE WELL BOX TO THE FILTER MEDIA, SHALL BE LINED. LIVING WILL BE IN ACCORDANCE WITH THE STORMWATER MANAGEMENT DETAIL AS SHOWN ON THE FINAL CONSTRUCTION PLAN. MICRO-BIORETENTION FACILITIES ARE NOT ALLOWED WITHIN 50' OF WELL OR WELL BOXES.
  10. SHOULD THE EXISTING WELL ON PARCEL A REMAIN, THE CASING MUST BE EXTENDED TO MEET CODE REQUIREMENTS AND A PITLESS WASHER MUST BE INSTALLED ON THE WELL CASING. THE MODIFIED WELL MUST BE INSPECTED FOR COMPLIANCE WITH REGULATION BY A HEALTH DEPARTMENT INSPECTOR AND APPROVED PRIOR TO EITHER SIGNATURE OF THE FINAL PLAT, APPROVAL OF AN ADJONER TRANSFER, OR RELEASE OF A BUILDING PERMIT FOR 2730 JENNINGS CHAPEL ROAD, WHICHEVER OCCURS FIRST.
  11. FIELD INVESTIGATION INTO THE LOCATION OF THE EXISTING SEPTIC COMPONENTS FOR THE EXISTING HOUSE ON PRESERVATION PARCEL A DID NOT REVEAL ANY COMPONENTS EXCEPT THE SEPTIC LINES INTERNAL TO THE HOUSE. THE EXTERIOR SEPTIC COMPONENTS MUST BE LOCATED AND PROPERLY ABANDONED AT THE TIME A NEW SEPTIC IS NECESSARY.
  12. THE EXISTING BARN ON PRESERVATION PARCEL A CONTAIN WATER SPIGOTS THAT APPEAR TO BE SUPPLIED BY THE WELL. THERE ARE NO PLUMBING FIXTURES FOR SEWAGE DISPOSAL IN THE BARN. ONLY THE MAIN HOUSE IS TO HAVE SEWAGE DISPOSAL ABILITY AT THIS TIME. THE WATER LINES TO THE BARN MUST BE LOCATED AT LEAST 10' FROM THE PLANNED SEWAGE DISPOSAL AREA OR THE LINES MUST BE RELOCATED OR ABANDONED. WATER LINES THAT CROSS THE SEWER HOUSE CONNECTION MUST BE CONSTRUCTED IN ACCORDANCE WITH THE COUNTY AND STATE CODES.
  13. THE EXISTING WELL APPROXIMATELY LOCATED AT THE INTERSECTION OF THE SEWER HOUSE CONNECTION MUST BE INSPECTED FOR COMPLIANCE. THE UPGRADE STILL MUST BE COMPLETED SATISFACTORILY. REF 3/4/2021

**PURPOSE STATEMENT**  
 THE PURPOSE OF THIS PERCOLATION CERTIFICATION PLAN IS TO SHOW THE EXISTING WELL AND SEPTIC COMPONENTS ON THIS PARCEL TO SHOW THE PERCOLATION TEST RESULTS, TO CREATE A 10,000 SF SEWAGE DISPOSAL AREA, TO SHOW THE PARCEL OUTLINE AFTER PARCEL CONSOLIDATION, AND TO SHOW A 1,500 SF WELL BOX.

REVISION	DATE	DESCRIPTION

**BENCHMARK ENGINEERING, INC.**  
 ENGINEERS & LAND SURVEYORS & PLANNERS  
 8480 BALTIMORE NATIONAL PIKE SUITE 315-4 ELICOTT CITY, MARYLAND 21043  
 (P) 410-465-6105 (F) 410-465-6644  
 WWW.BE-CVLENGINEERING.COM

*Most Recent (2/21/21)  
 Signed PC  
 JB*

**SOILS CHART - SOIL SURVEY HOWARD COUNTY, MARYLAND**

SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP	NAME	K-VALUE
GgB		B		GLENELG LOAM, 3 TO 8 PERCENT SLOPES	0.20
GgC		B		GLENELG LOAM, 8 TO 15 PERCENT SLOPES	0.20
GmB*	YES	C		GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	0.37
GmC		C		GLENVILLE SILT LOAM, 8 TO 15 PERCENT SLOPES	0.37
GnB*	YES	C	D	GLENVILLE-BAILE SILT LOAM, 0 TO 8 PERCENT SLOPES	0.37/0.32
MaD		B		MANOR LOAM, 15 TO 25 PERCENT SLOPES	0.24
McD		B		MANOR LOAM, 15 TO 25 PERCENT SLOPES, VERY ROCKY	0.24

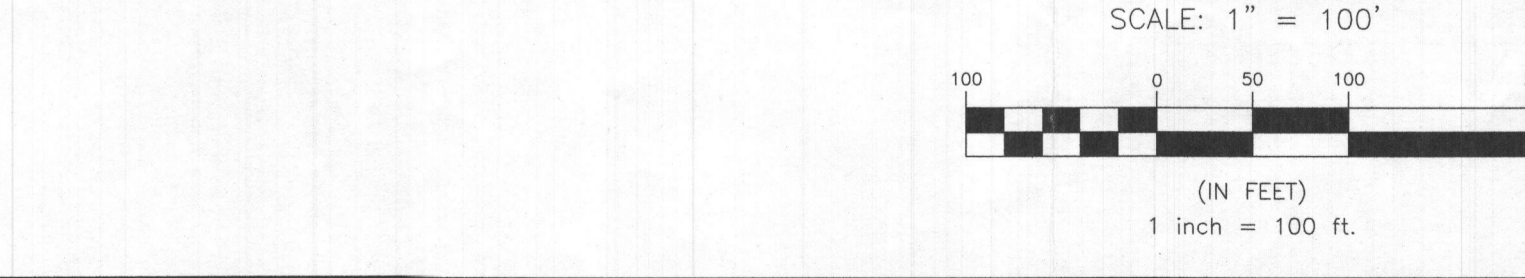
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 SOILS ARE TAKEN FROM THE NRCS WEB SOIL SURVEY APRIL 2019, MAP 9.

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

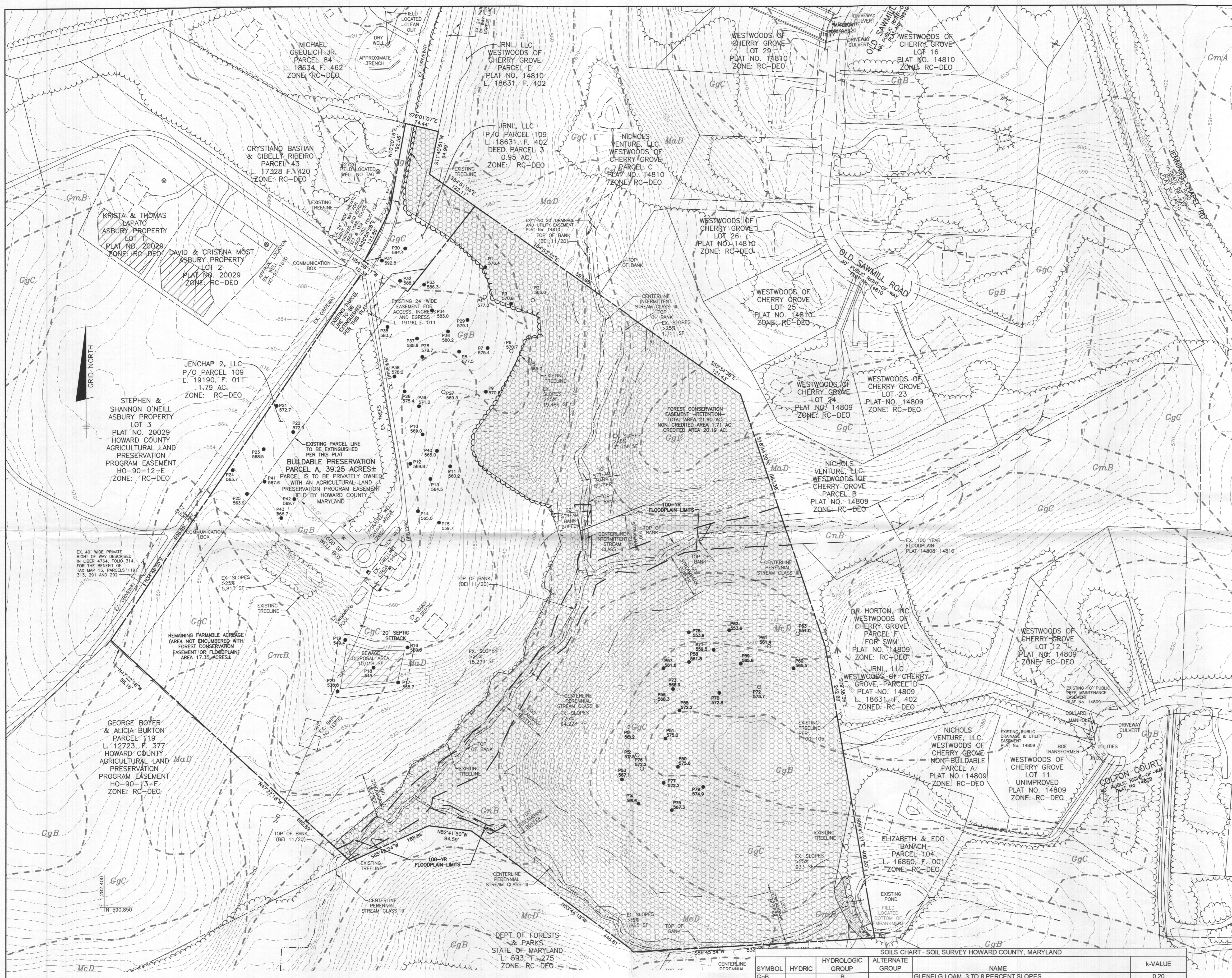
*John M. Carney*  
 HOWARD COUNTY HEALTH OFFICER  
 DATE 3/13/21

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.

*John M. Carney*  
 PLAN PREPARER  
 JOHN M. CARNEY  
 FOR BENCHMARK ENGINEERING, INC.

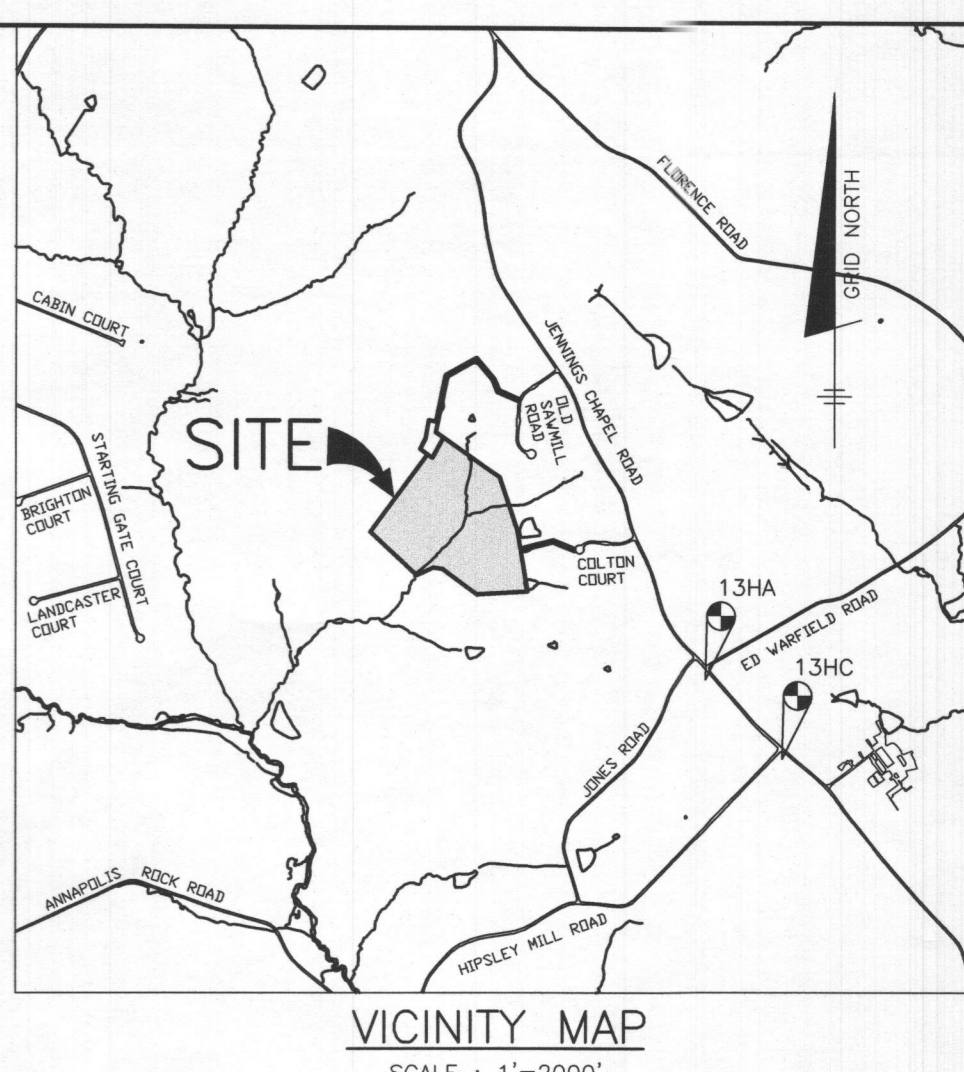


<b>OWNER/DEVELOPER</b> LIBER 18631, FOLIO 402 PARCEL 1: 6800 DEERPATH ROAD SUITE 100 ELKBRIDGE MD, 21075 410-579-2442	<b>SAVAGE PROPERTY PRESERVATION PARCEL 'A'</b> <i>Superseded 10/12/22</i> 2730 JENNINGS CHAPEL ROAD TAX MAP: 13 GRD, 21 PARCEL 109 ZONED: RC-DEO ELECTION DISTRICT NO. 4 HOWARD COUNTY, MARYLAND
<b>OWNER</b> LIBER 19190, FOLIO 011: JENCHAP 2, LLC 6800 DEERPATH ROAD SUITE 100 ELKBRIDGE MD, 21075 410-579-2442	<b>PERCOLATION CERTIFICATION PLAN</b>
<b>DESIGN:</b> JC <b>DRAFT:</b> JC	<b>DATE:</b> JANUARY, 2021 <b>BEI PROJECT NO.</b> 2953 <b>SCALE:</b> 1" = 100' <b>SHEET</b> 1 OF 1



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  - PERC TEST - PASS
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 8480 BILTMORE NATIONAL PIKE SUITE 315 • ELICOTT CITY, MARYLAND 21043  
 (P) 410-465-6105 (F) 410-465-6644  
 WWW.BEI-ONLINEENGINEERING.COM

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. 45577, Expiration Date: 06/08/2022

*Superseded*  
 3/12/21

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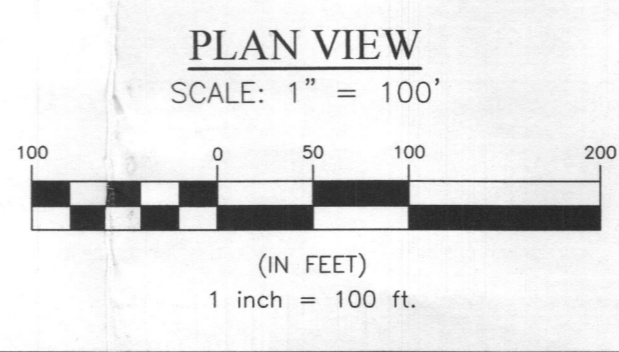
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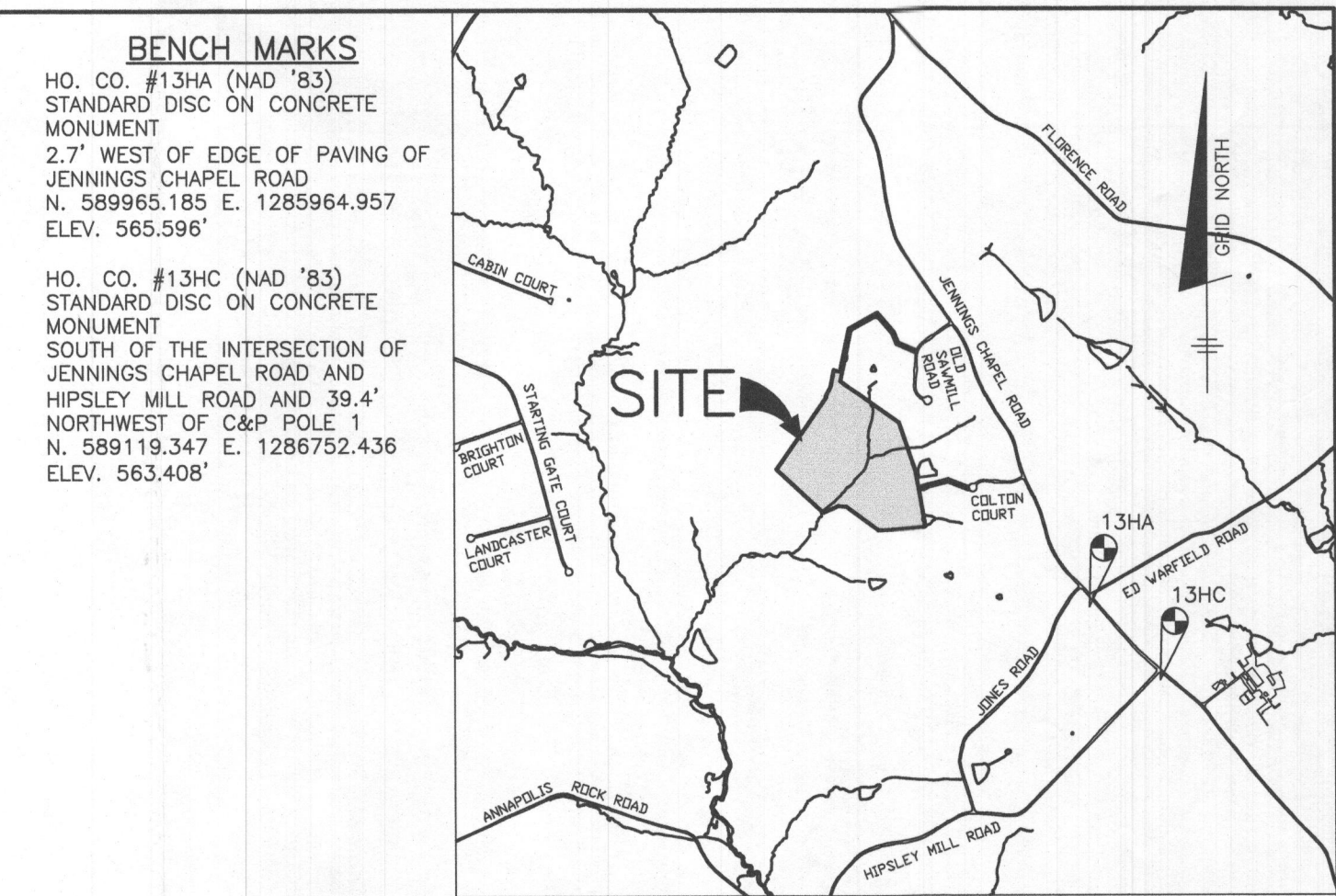
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PLAT PREPARER  
 JOHN M. CARNEY  
 FOR BENCHMARK ENGINEERING, INC.





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  - ADJACENT PROPERTY BOUNDARY
  - GIS CONTOUR LINES
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  - EXISTING BUILDINGS
  - EXISTING SWIMMING POOLS
  - EXISTING TREELINE
  - STREAM
  - POND
  - PROPOSED 10,000 SQ.FT. SEWAGE DISPOSAL AREA
  - PROPOSED 1,500 SQ.FT. WELLBOX
  - EXISTING SLOPES >25%
  - PERC TEST - PASS
  - PERC TEST - FAIL
- GENERAL NOTES**
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
  - THE LOT SIZE FOR THESE LOTS WILL FULFILL THE REQUIREMENTS OF THE ZONING REGULATIONS.
  - THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. REORDINATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
  - TOPOGRAPHY SHOWN IS BASED ON HOWARD COUNTY GIS AND IS VERIFIED BY BENCHMARK ENGINEERING, INC., AT TIME OF PERCOLATION TEST STAKEOUT.
  - TO THE BEST OF OUR KNOWLEDGE, ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELL AND/OR SEPTIC HAVE BEEN SHOWN.
  - ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISION TO THE PERCOLATION CERTIFICATION PLAN.
  - ALL WELLS TO BE DRILLED PRIOR TO FINAL PLAT APPROVAL. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE 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 PLAT.
  - PERCOLATION CERTIFICATION FEE RECEIPT NUMBER, REFERENCED IN THE APPROVING AUTHORITY CORRESPONDENCE, IS AS65550.
  - ANY MICRO-BIOTENTION FACILITIES WITHIN 100 FEET OF A WELL, AS MEASURED FROM THE WELL BOX TO THE FILTER MEDIA, SHALL BE LINED. LINING WILL BE IN ACCORDANCE WITH THE STORMWATER MANAGEMENT DETAIL AS SHOWN ON THE FINAL CONSTRUCTION PLAN. MICRO-BIOTENTION FACILITIES ARE NOT ALLOWED WITHIN 50' OF WELL OR WELL BOXES.
  - THE APPROVABLE WELL BOX SITE AND SEWAGE DISPOSAL AREA AVAILABLE ON LOT 3 CREATE SITE LIMITATIONS AND SETBACK RESTRICTIONS. THESE LIMITATIONS AND RESTRICTIONS RESULT IN A LOT THAT EXCEEDS THE 50,000 SF LIMIT IN THE HOWARD COUNTY ZONING REGULATIONS, SECTION 10A-01.0 BUT IS LESS THAN THE 60,000 SF MAXIMUM ALLOWED BY THAT REGULATION.
  - MARYLAND DEPARTMENT OF THE ENVIRONMENT HAS BEEN PROVIDED A VARIANCE REQUEST FOR THE LOCATION OF LOT 1 WELL BOX DOWN GRADIENT OF THE SEPTIC SYSTEM ON 2724 JENNINGS CHAPEL ROAD. THE CONDITIONS FOR THE WELL IS THAT IT WILL HAVE A STEEL CASING AND IT SHALL BE INSTALLED TO 50 FEET DEPTH, OR 10 FEET INTO COMPETENT BEDROCK, WHICHEVER IS DEEPER.
  - SHOULD THE EXISTING WELL ON PARCEL 1 REMAIN, THE CASING MUST BE EXTENDED TO MEET CODE REQUIREMENTS AND A FITLESS ADAPTER MUST BE INSTALLED ON THE WELL CASING. THE MODIFIED WELL MUST BE INSPECTED FOR COMPLIANCE WITH REGULATION BY A HEALTH DEPARTMENT INSPECTOR AND APPROVED PRIOR TO EITHER SIGNATURE OF THE FINAL PLAT, APPROVAL OF AN ADJOINER TRANSFER, OR RELEASE OF A BUILDING PERMIT FOR 2730 JENNINGS CHAPEL ROAD, WHICHEVER OCCURS FIRST.
  - A WELL MUST BE INSTALLED ON PARCEL 2, AND THE WELL COMPLETION REPORT APPROVED BY THE HEALTH DEPARTMENT, PRIOR TO HEALTH DEPARTMENT RELEASE OF A BUILDING PERMIT FOR A RESIDENCE ON PARCEL 2 OR BEFORE FINAL PLAT, WHICHEVER OCCURS FIRST.
  - THE EXISTING BARN CONTAIN WATER SPOOTS THAT APPEAR TO BE SUPPLIED BY THE WELL. THERE ARE NO PLUMBING FIXTURES FOR SEWAGE DISPOSAL IN THE BARN. ONLY THE MAIN HOUSE IS TO HAVE SEWAGE DISPOSAL ABILITY AT THIS TIME. IF THE WATER LINES TO THE SPOOTS MUST BE LOCATED AT LEAST 10' FROM THE PLANNED SEWAGE DISPOSAL AREA OR THE LINES MUST BE RELOCATED OR ABANDONED. WATER LINES THAT CROSS THE SEWER HOUSE CONNECTION MUST BE CONSTRUCTED IN ACCORDANCE WITH THE COUNTY AND STATE CODES.

**PURPOSE STATEMENT**

THE PURPOSE OF THIS PERCOLATION CERTIFICATION PLAN IS TO SHOW THE EXISTING WELL AND SEPTIC COMPONENTS ON THESE PARCELS; TO SHOW THE PERCOLATION TEST RESULTS; TO CREATE 10,000 SF SEWAGE DISPOSAL AREAS AND 1,500 SF WELL BOXES FOR LOTS 1-3, PARCEL 1, AND PARCEL 2; AND TO SHOW THE REVISED CONFIGURATION OF PARCELS 1 AND 2 TO BE COMPLETED BY ADJOINING TRANSFER.

**BENCHMARK ENGINEERING, INC.**  
ENGINEERS & LAND SURVEYORS & PLANNERS  
6480 BALTIMORE NATIONAL PIKE & SUITE 315 & ELLICOTT CITY, MARYLAND 21043  
(P) 410-465-6105 (F) 410-465-6644  
WWW.BE-CIVILENGINEERING.COM

*Superseded*  
2/12/21

**OWNER/DEVELOPER:**  
JRNL, LLC  
6800 DEERPATH ROAD  
SUITE 100  
ELK RIDGE MD, 21075

**SAVAGE PROPERTY**  
PARCELS 1 & 2  
LOTS 1-3

2730 JENNINGS CHAPEL ROAD  
TAX MAP: 13 GRID: 21 PARCEL: 109  
ZONED: RC-DEO ELECTION DISTRICT NO. 4  
HOWARD COUNTY, MARYLAND

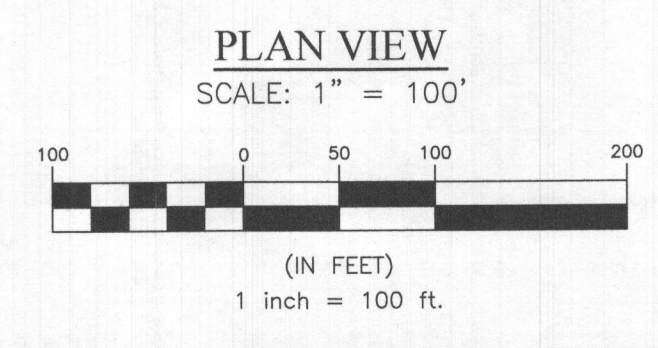
**PERCOLATION CERTIFICATION PLAN**

DATE: DECEMBER, 2019 BEI PROJECT NO. 2953  
SCALE: 1" = 100' SHEET 1 OF 1

**MINIMUM LOT SIZE CHART**

LOT NO.	GROSS AREA	PIPESTEM AREA	MIN. LOT SIZE
1	51,984 SF	7,247 SF	44,337 SF
2	48,176 SF	8,174 SF	40,002 SF
3	66,997 SF	10,176 SF	56,821 SF
PARCEL 2	90,077 SF	12,156 SF	77,921 SF

THE APPROVABLE WELL BOX SITE AND SEWAGE DISPOSAL AREA AVAILABLE ON LOT 3 CREATE SITE LIMITATIONS AND SETBACK RESTRICTIONS. THESE LIMITATIONS AND RESTRICTIONS RESULT IN A LOT THAT EXCEEDS THE 50,000 SF LIMIT IN THE HOWARD COUNTY ZONING REGULATIONS, SECTION 10A-01.0 BUT IS LESS THAN THE 60,000 SF MAXIMUM ALLOWED BY THAT REGULATION.



**SOILS CHART - SOIL SURVEY HOWARD COUNTY, MARYLAND**

SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP	NAME	K-VALUE
GgB		B		GLENELG LOAM, 3 TO 8 PERCENT SLOPES	0.20
GgC		B		GLENELG LOAM, 8 TO 15 PERCENT SLOPES	0.20
GgC*	YES	C		GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	0.37
GmC		C		GLENVILLE-SALE SILT LOAM, 0 TO 8 PERCENT SLOPES	0.37
GmC*	YES	C	D	GLENVILLE-SALE SILT LOAM, 0 TO 8 PERCENT SLOPES	0.37/0.32
MaD		B		MANOR LOAM, 15 TO 25 PERCENT SLOPES	0.24
McD		B		MANOR LOAM, 15 TO 25 PERCENT SLOPES, VERY ROCKY	0.24

\* INDICATES HYDRIC SOILS

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

*John M. Carney*  
HOWARD COUNTY HEALTH OFFICER

DATE: 1/28/2020

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.

PLAN PREPARER  
JOHN M. CARNEY  
FOR BENCHMARK ENGINEERING, INC.