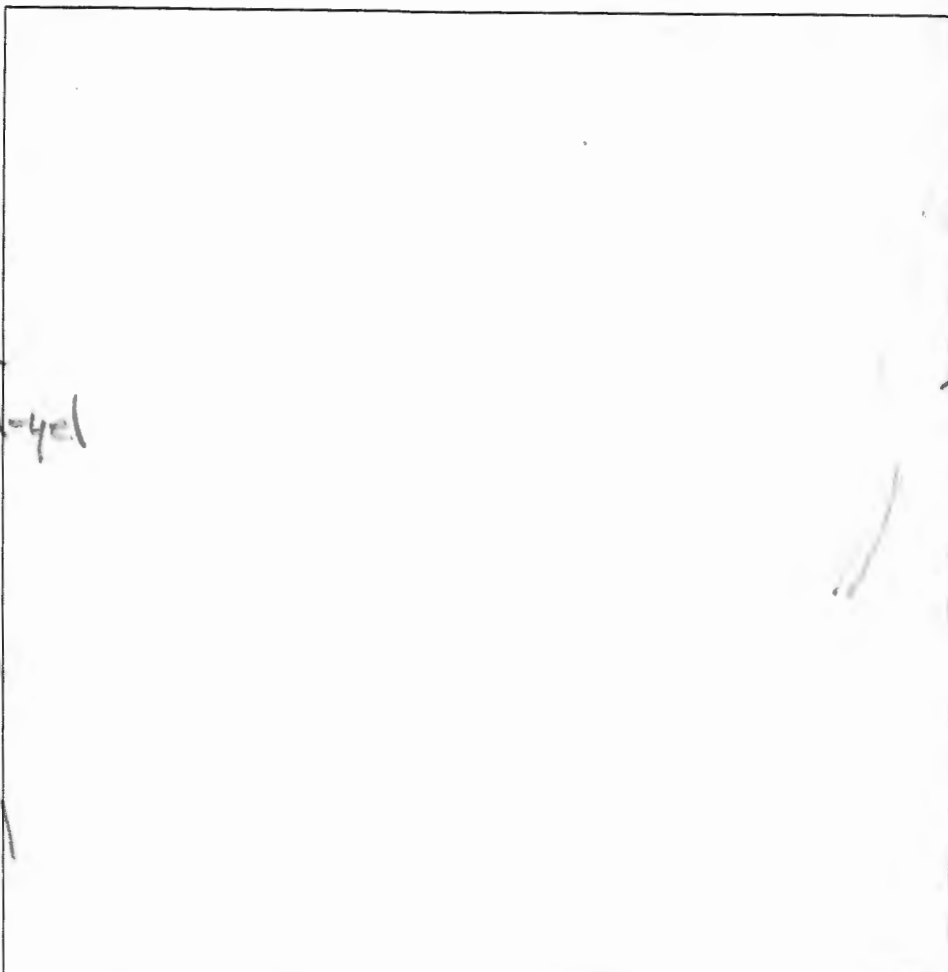


50
 organic
 many f. roots
 0.2' brn sil / 1 fsk
 0.3' red-brn
 chsil, 1 fsk
 1.5' yellow & red-yel
 chsil, 0 m
 12'

52
 red-yellow
 & yellow

x by sil
 3' grey x by sil
 R

54
 x by sil
 3'



51
 organic
 many f. roots
 0.3' brn sil
 1 fsk
 red-brn
 chsil, 1 fsk
 2.4' yel-red
 brn, & yellow
 vchsil, 0 m
 35-45% rock
 5'

53
 organic
 many fine roots
 brn sil
 1 fsk
 0.3' red-brn
 vchsil, 1 fsk
 30-40% rock
 15' red-yellow
 & yellow
 vchsil, 0 m
 35-45% rock
 6.5'

brn & yel-red
 v f sil
 55-65%
 rock
 8' stopped

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9/28/20	50	4.5'/12'	1:35	1:36:30	1:39	2.5	P
9/28/20	51	5'/R	1:53	1:55	2:00	5	P
9/28/20	52	0.5'	Visual	extremely boundary >50% rock			F
9/28/20	54	1'	Visual	extremely boundary >50% rock			F
9/28/20	53	2.5'/6.5'	2:28	2:36	2:48	12	P

REMARKS _____

SANITARIAN R Bricker BACKHOE Hatfield OTHERS _____

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

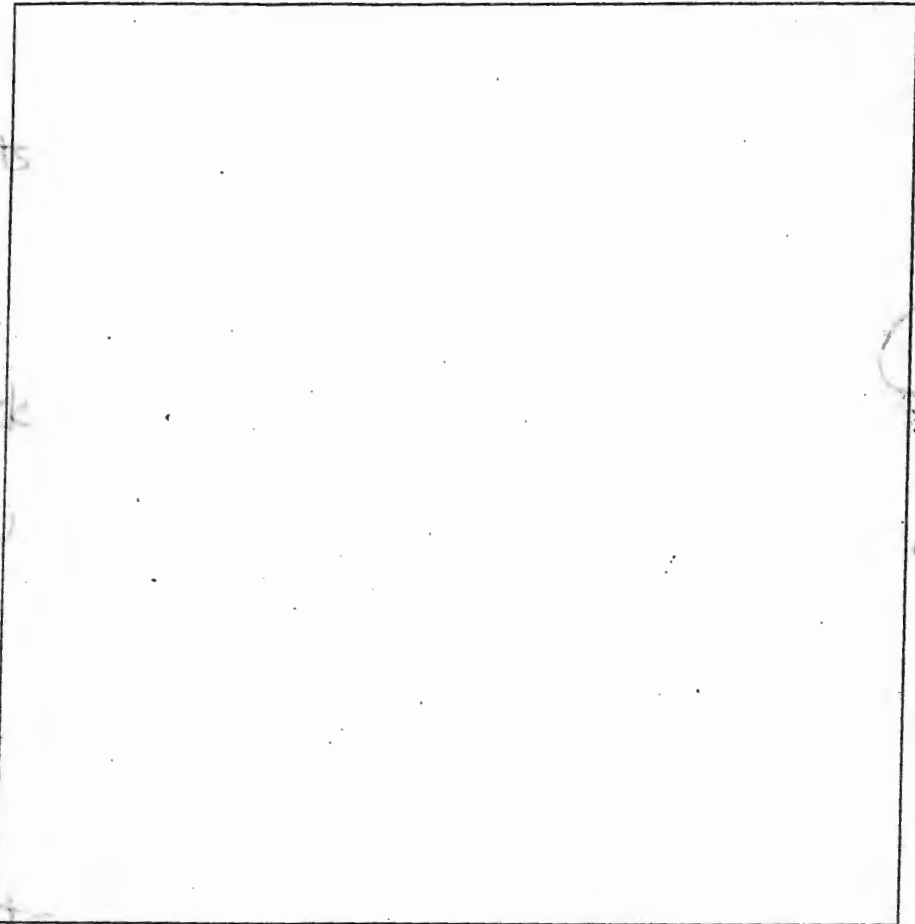
TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

55
 organic
 many roots
 0.3' brn sil
 1' fobk
 red-brn
 vclsil
 35-45% rock
 1.5' red, red-yel
 a pale yellow
 chsil
 6' yel-red

12' vclsil, ss, g.
 40-50% rock

56
 organic
 many roots
 0.2' brn chsil
 1' fobk
 2' red-brn
 chsil, fobk
 3' yellow, red
 red-yel
 1' chsil, ss, g.

red-yel
 vclsil, platy
 rock-cont. (red)



56
 organic
 many roots
 0.2' brn chsil
 1' fobk
 1.2' red & red-yel
 chsil, fobk
 4' yel-red
 vclsil, ss, g.
 55-65% rock
 8' R

57
 organic
 many roots
 0.2' brn chsil
 1.5' fobk
 4' red-yellow
 chsil, fobk
 4' red-yellow
 vclsil, ss, g.
 40-50% rock
 7.5' red-yel & yel-red

vclsil
 55-65% rock
 9' R

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9/28/00	55	4.5' / 12'	11:40	11:41:30	11:44	2.5	P
7/8/00	56	4'	Visual	rock >	50%		F
9/6/00	57	2.5' / 55'	12:10	12:16	12:31	15	P
9/28/00	58	4' / 12'	12:34	12:35:30	12:38	2.5	P

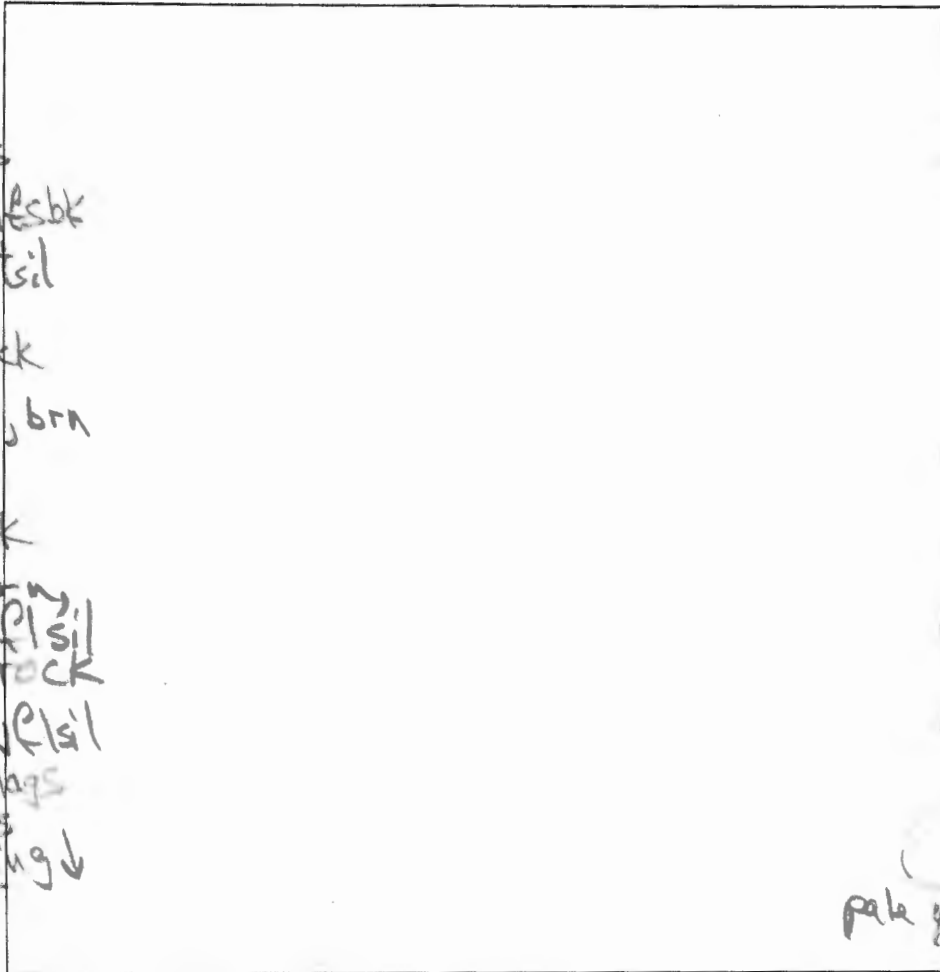
REMARKS _____
 SANITARIAN R Bricker BACKHOE Hatfield OTHERS James Fraser
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____

(59)

0.2 organic many fine roots
brn chsil, 1 fskbk
0.3 red-brn vlsil
1 fskbk
40-50% rock
1.3 red, red-yel, brn
pale yellow
vch sil
35-45% rock
8 yel-red, brn
red-brn vlsil
40-50% rock
9.5 red-brn
2 yel-red vlsil
50-60% frags
and stones
and increasing ↓

(60)

organic many fine roots
0.3 brn chsil
1 fskbk
1.6 yel-red
vch sil, 1 fskbk
25-35% rock
6 yel-red
brn
vch sil
35-45% rock
12'



(63)
yel-red
ch sil
2.5'
rock > 50%
vch sil
H. grey-brn
5'

(62)
organic
many fine
roots

0.2 brn sil
1 fskbk
0.3 red brn chsil
1 fskbk
2 yel-red
pale yel f H, brn
5' chsil

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9/28/20	63	2.5'	Visual			rock > 50%	F
9/28/20	62	4.5' 9.5'	10:20	10:23	10:27	4	P
9/28/20	59	5.5' 9.5'	10:46	10:48	10:51	3	P
9/28/20	61	2.7'	Visual			rock > 50%	F
9/28/20	60	4.5' 12'	11:18	11:19	11:21:30	2.5	P

yel-red
brn
vch sil
35-45% rock
9.5'
red-brn
yel-red
vlsil
> 50% frags
& stones
vch sil
R
(61)
organic
many fine
roots
brn chsil
1 fskbk
0.3

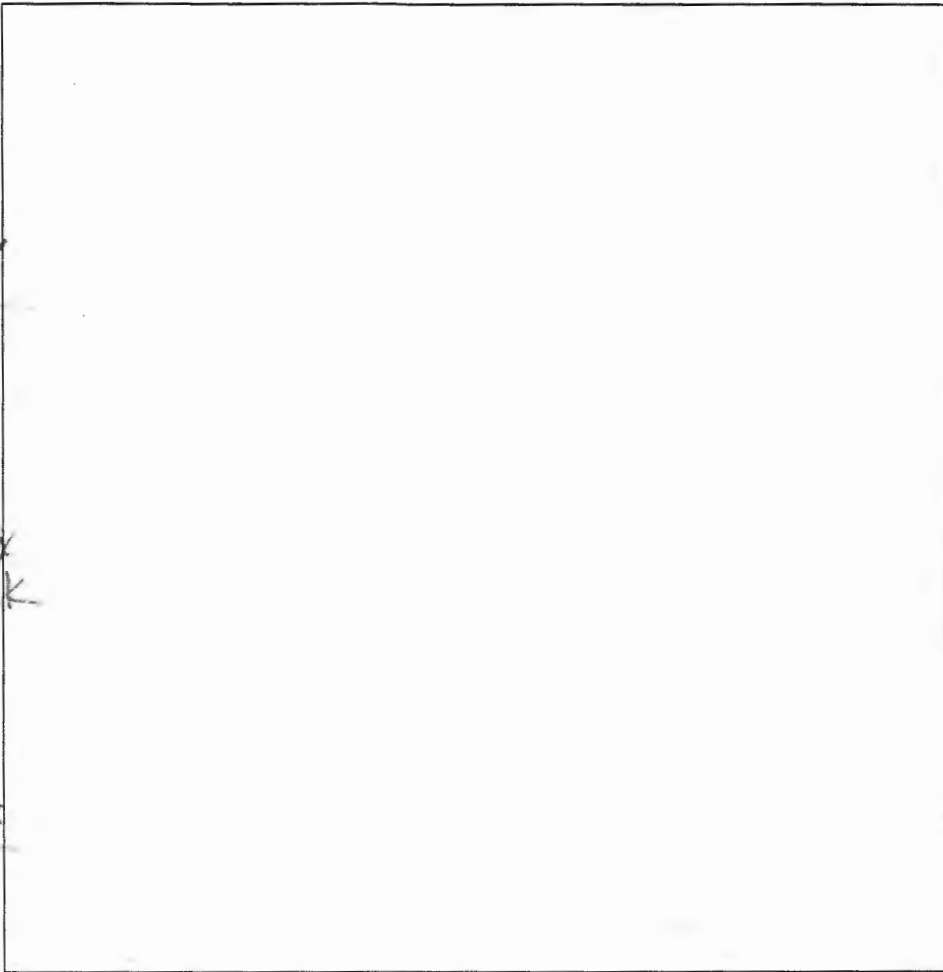
REMARKS _____
 SANITARIAN R Bricker BACKHOE Hatfield OTHERS 2.7 chsil, 1 fskbk
 TEST HOLES USED IN SDA Donnie & Sista AVG. PERC TIME _____ SQ. FT/HR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SWM _____
 10' rock > 50% vlsil

71
 0.2' organic matter & roots
 red-bn chsil
 1.5' lfsbk
 1.5' yellow & red-yel chsil
 6' platy
 red-yel vch sil platy
 11' 35-45% rock

73
 organic matter & roots
 0.2' brn sil lfsbk
 12' red-bn chsil, lfsbk
 yellow red & red-yel sil, thin
 8' yellow sil thin platy
 11' yel & red chsil thin platy

70
 organic matter & roots
 1.5' red-bn sil lfsbk
 red, brn & red-yel chsil, lfsbk
 red, brn pel-red & grey vch sil
 6' 35-45% rock
 brn to grey vch sil
 40-50% rock
 7' grey extremely clayey
 > 50% rock

72



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9/28/20	71	4.3' / 11'	12:52	12:54	1:00	6	P
9/28/20	70	3.5' / 7'	11:07:30	1:10	1:17	7	P
9/28/20	72	3'	Visual	> 50% rock	extreme boulder detrit		F
9/28/20	73	12'	Visual	sidewall 1'-8"	to 9' / 4'		P

REMARKS _____
 SANITARIAN R. Bricker BACKHOE Hot Fields OTHERS James Fraser
 TEST HOLES USED IN SDA _____ AVE. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____



Bureau of Environmental Health
 8930 Stanford Blvd | Columbia, MD 21045
 410.313.2640 - Voice/Relay
 410.313.2648 - Fax
 1.866.313.6300 - Toll Free

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

**APPLICATION
 FOR PERCOLATION TESTING AND SITE EVALUATION**

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Sewage Property
 PROPERTY ADDRESS 2730 Seannings Chapel Rd Kloofline MD
STREET TOWN ZIP
 TAX ACCOUNT # 04-327268 TAX MAP 13 GRID 21 PARCEL P/109 LOT NO. 1 PROPOSED LOT 21797
SIZE (ACRES) 1.1Ac
 ZONING CATEGORY RC-DEO TIER IV

PROPERTY OWNER(S)

SRNL LLC
 DAYTIME PHONE 410-567-1046 CELL 443 433 6287 EMAIL fraser@handhrock.com
 MAILING ADDRESS 6800 Deerpath Rd Ste 100 Elkridge MD 21075
STREET CITY, STATE ZIP

APPLICANT

SRNL LLC RELATIONSHIP TO OWNER: Same
 DAYTIME PHONE _____ CELL _____ EMAIL _____
 MAILING ADDRESS _____
STREET CITY, STATE ZIP

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

PROPERTY:

- SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: 4
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]
 SIGNATURE OF APPLICANT

9/10/20
 DATE



Bureau of Environmental Health
 8930 Stanford Blvd | Columbia, MD 21045
 410.313.2640 - Voice/Relay
 410.313.2648 - Fax
 1.866.313.6300 - Toll Free

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

**APPLICATION
 FOR PERCOLATION TESTING AND SITE EVALUATION**

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Sewage Property
 PROPERTY ADDRESS 2730 Jennings Chapel Rd Woodbine MD
STREET TOWN ZIP
 TAX ACCOUNT # 04-327268 TAX MAP 13 GRID 21 PARCEL P/10 LOT NO. 2 PROPOSED LOT SIZE (ACRES) 1.1Ac
109
 ZONING CATEGORY RC-DEO TIER IV

PROPERTY OWNER(S)

SRNL LLC
 DAYTIME PHONE 410-567-1046 CELL 443 433 6287 EMAIL jfraser@handrock.com
 MAILING ADDRESS 6800 Deerpath Rd Ste 100 Elkridge MD 21075
STREET CITY, STATE ZIP

APPLICANT

SRNL LLC RELATIONSHIP TO OWNER: Same
 DAYTIME PHONE _____ CELL _____ EMAIL _____
 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: 4
 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

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[Signature] 9/10/20
 SIGNATURE OF APPLICANT DATE



HOWARD COUNTY HEALTH DEPARTMENT

67983

DATE 9/16/20

AS

Received From

H/NHR Companies

PHONE #

410-945-6115

For

REC UP/ SARG PROP.
3 lots

CASH

CHECK

NO.

1791

rec tax
Can Howard fire bonded eight
Dollars

\$ 1518 00

Received By

King



HOWARD COUNTY HEALTH DEPARTMENT

67983

DATE
9/16/20

AS

Received From

HINAR Companies

PHONE #

410-495-6115

For

REAR APP/ Garage Prop.
slots
revised layout
re: Tally

CASH

CHECK

NO.

1791

Five thousand five hundred eighty Dollars

\$

1510 00

Received By

King



September 8, 2020

Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045

RE: Savage Property Revised Layout Perc Testing

To Whom it May Concern:

Enclosed is a signed copy of our application for percolation testing on the above referenced property along with a check in the amount of \$1,518. Please provide a receipt for this fee to:

John M. Carney, P.E.
Benchmark Engineering, Inc.
8480 Baltimore National Pike, Suite 315
Ellicott City, MD 21043
410-465-6105 ext. 1152

If there are any questions or concerns about the enclosed application, please direct them to Mr. Carney, our engineer.

Thank you,



James M. Fraser



Bureau of Environmental Health
 8930 Stanford Blvd | Columbia, MD 21045
 410.313.2640 - Voice/Relay
 410.313.2648 - Fax
 1.866.313.6300 - Toll Free

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

**APPLICATION
 FOR PERCOLATION TESTING AND SITE EVALUATION**

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Sewage Property
 PROPERTY ADDRESS 2730 Jennings Chapel Rd Woodbine MD
STREET TOWN ZIP
 TAX ACCOUNT # 04-327268 TAX MAP 13 GRID 21 PARCEL P/109 LOT NO. 3 PROPOSED LOT SIZE (ACRES) 1.1Ac
 ZONING CATEGORY RC-DEO TIER IV

PROPERTY OWNER(S)

SRNL LLC
 DAYTIME PHONE 410-567-1046 CELL 443 4336287 EMAIL fraser@handrock.com
 MAILING ADDRESS 6800 Deerpath Rd Ste 100 Elkridge MD 21075
STREET CITY, STATE ZIP

APPLICANT

SRNL LLC RELATIONSHIP TO OWNER: Same
 DAYTIME PHONE _____ CELL _____ EMAIL _____
 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: 4
 SUBDIVISION CLASSIFICATION (PER DEPT. OF PLANNING AND ZONING) MAJOR MINOR
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- 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:

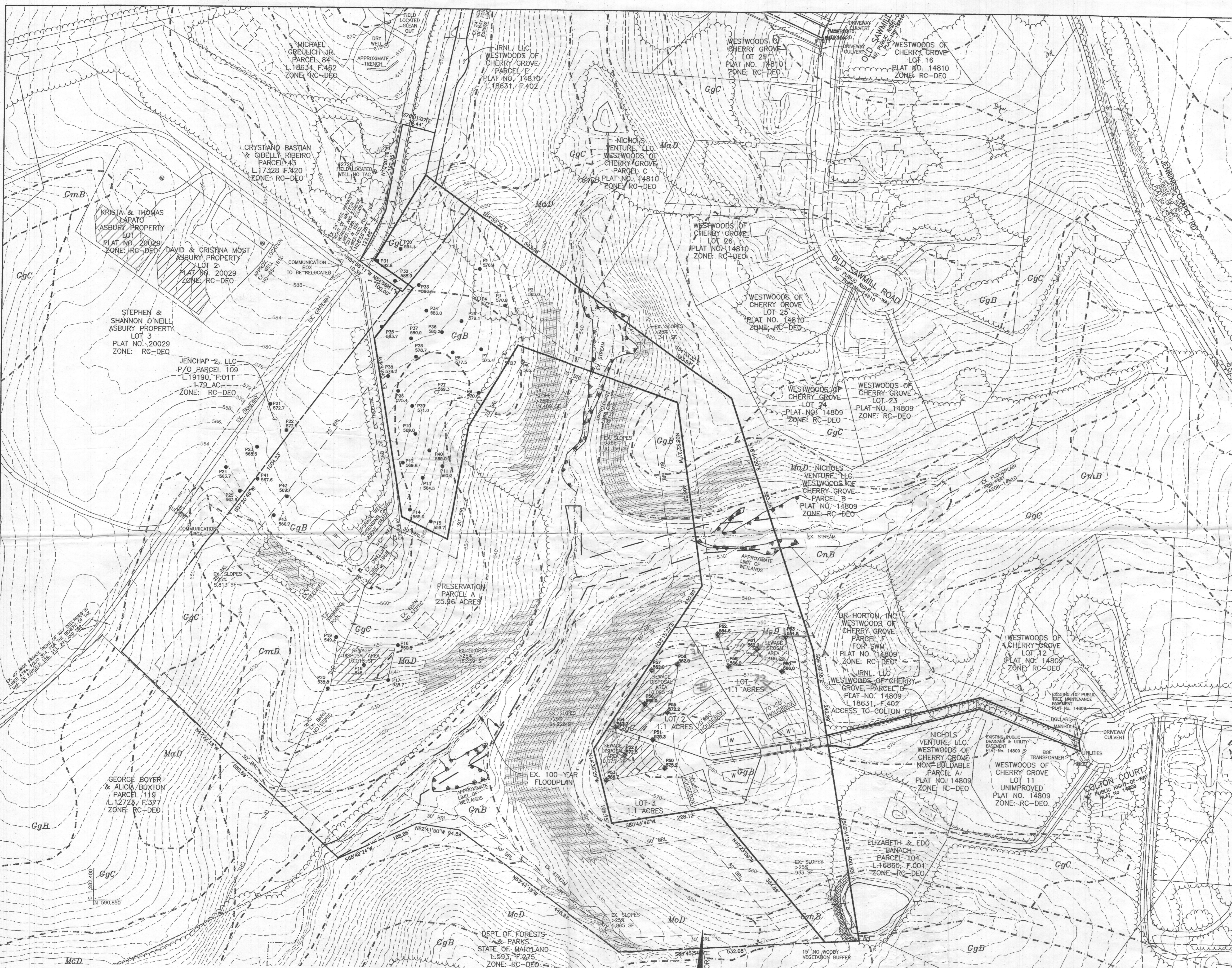
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- THIS IS A PUBLIC DOCUMENT

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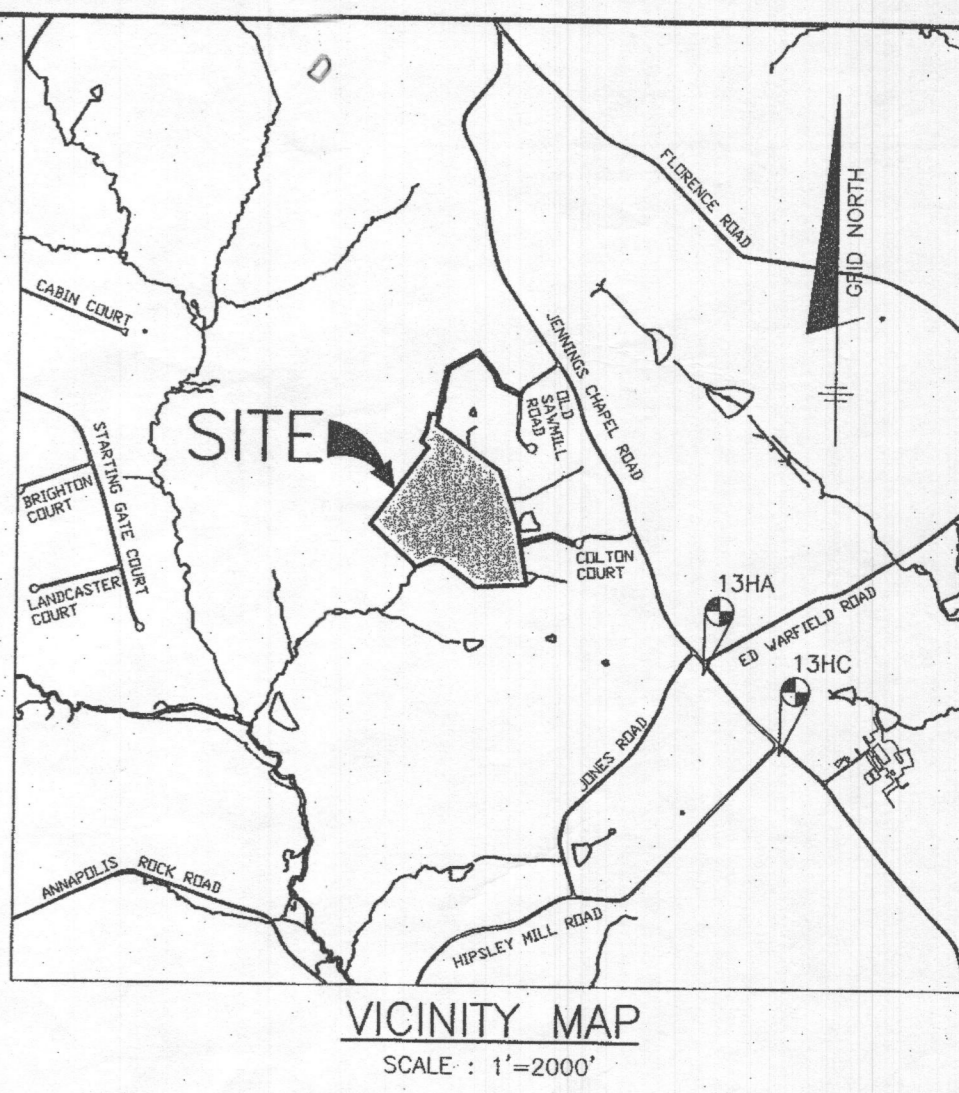
SIGNATURE OF APPLICANT

DATE



BENCH MARKS
 HO. CO. #13HA (NAD '83)
 STANDARD DISC ON CONCRETE
 MONUMENT
 2.7' WEST 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
 HIPPLEY MILL ROAD AND 39.4'
 NORTHWEST OF C&P POLE 1
 N. 589119.347 E. 1286752.436
 ELEV. 563.408'



LEGEND

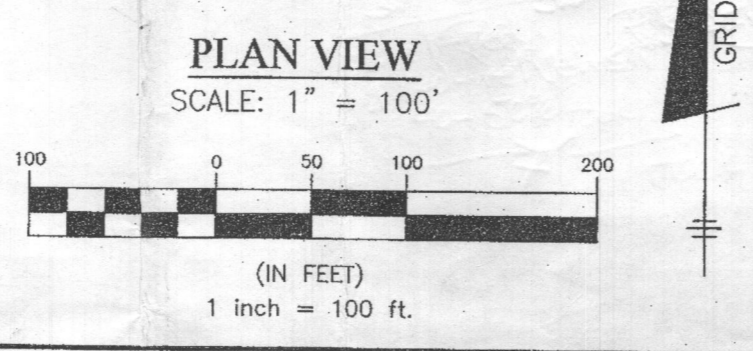
- PROPERTY BOUNDARY
- ADJACENT PROPERTY BOUNDARY
- GIS CONTOUR LINES
- - - - - MaD SOIL DELINEATION
- - - - - GgC
- ▭ EXISTING BUILDINGS
- EXISTING SWIMMING POOLS
- ~ EXISTING TREELINE
- STREAM
- POND
- ▨ PROPOSED 10,000 SQ.FT. SEWAGE DISPOSAL AREA
- ▭ W PROPOSED 1,500 SQ.FT. WELLBOX
- ▨ EXISTING SLOPES >25%
- PERC TEST - PASS
- PERC TEST - FAIL
- ◆ PROPOSED PERC TEST

GENERAL NOTES

1. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
2. 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. RECORDATION OF A MODIFIED SEWAGE EASEMENT PLAT SHALL NOT BE REQUIRED.
3. TOPOGRAPHY SHOWN IS BASED ON HOWARD COUNTY GIS AND IS VERIFIED BY BENCHMARK ENGINEERING, INC. AT TIME OF PERC TEST STAKEOUT.
4. 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.
5. THE PURPOSE FOR THIS PERCOLATION TEST PLAN IS TO CREATE A 10,000 SQ. FT. SEWAGE DISPOSAL EASEMENT AND A 1,500 SQ. FT. WELL BOX FOR LOTS 1-3, AND PRESERVATION PARCEL A.
6. ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.

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.

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



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-BAILES 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

BENCHMARK ENGINEERING, INC.
 ENGINEERS & LAND SURVEYORS & PLANNERS
 6490 BAUMORE NATIONAL PIKE & SUITE 315 & ELLICOTT CITY, MARYLAND 21043
 (P) 410-465-8105 (F) 410-465-6844
 WWW.BEI-CIVILENGINEERS.COM

OWNER/DEVELOPER:
 JRNL, LLC
 6800 DEERPATH ROAD
 SUITE 100
 ELKRDGE MD, 21075

SAVAGE PROPERTY
 PARCELS 1 & 2 CREATING
 LOTS 1-3 AND PRESERVATION PARCEL A

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

PERCOLATION TESTING PLAN

DATE: AUGUST, 2020 BEI PROJECT NO. 2953
 SCALE: 1" = 100' SHEET 1 OF 1