



Howard County Health Department

# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_

AP 535170

AGENCY REVIEW: \_\_\_\_\_

DATE 4/22/11

DO NOT WRITE ABOVE THIS LINE

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

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH UNKNOWN PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE UNKNOWN IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) JOHN P MCDANIEL & ELLEN G MCDANIEL

DAYTIME PHONE \_\_\_\_\_ CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 13032 HIGHLAND ROAD HIGHLAND MD 20777  
STREET CITY/TOWN STATE ZIP

APPLICANT ROBERT H. VOGEL ENGINEERING, INC

DAYTIME PHONE 410-401-7000 CELL \_\_\_\_\_ FAX 410-401-0910

MAILING ADDRESS 2407 MAIN STREET FULCOTT CITY MD 21043  
STREET CITY/TOWN STATE ZIP

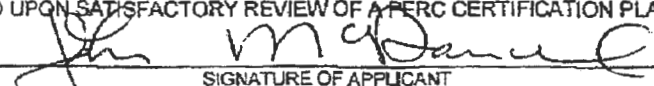
APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION KOANDAH GARDENS  
SUBDIVISION/PROPERTY NAME MCDANIEL PROPERTY LOT NO. 06

PROPERTY ADDRESS 13032 HIGHLAND ROAD HIGHLAND MD 20777  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 34 GRID 22 PARCEL(S) 117&78 PROPOSED LOT SIZE 40 AC ±

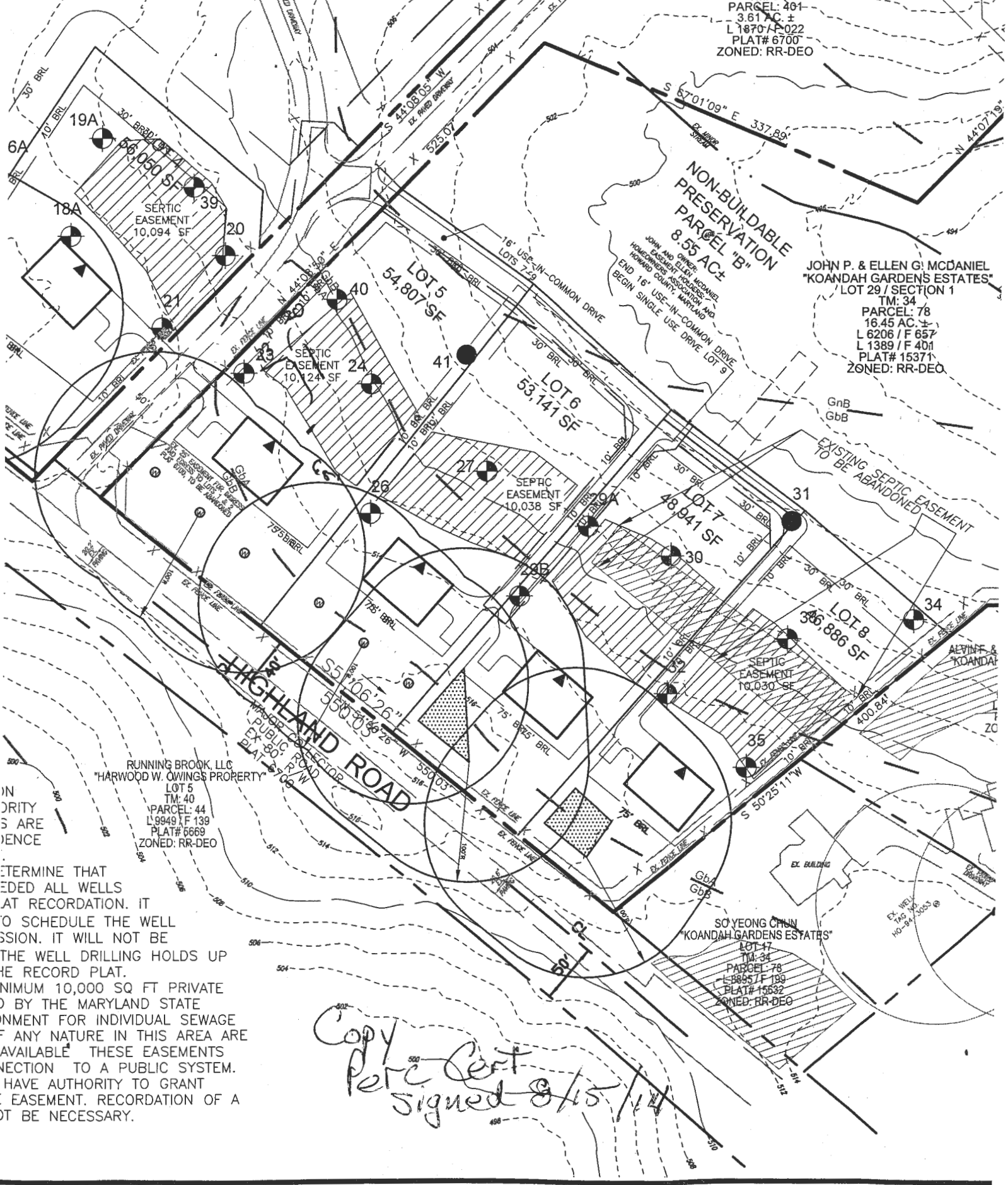
AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN. TEST RESULTS WILL BE MAILED TO APPLICANT.

  
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM  
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648  
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

IM: 34  
 PARCEL: 461  
 3.61 AC ±  
 L 1870 / F 022  
 PLAT# 6700  
 ZONED: RR-DEO

JOHN P. & ELLEN G. MCDANIEL  
 "KOANDAH GARDENS ESTATES"  
 LOT 29 / SECTION 1  
 TM: 34  
 PARCEL: 78  
 16.45 AC ±  
 L 6206 / F 657  
 L 1389 / F 401  
 PLAT# 15371  
 ZONED: RR-DEO



RUNNING BROOK, LLC  
 "HARWOOD W. OWINGS PROPERTY"  
 LOT 5  
 TM: 40  
 PARCEL: 44  
 L 9949 / F 139  
 PLAT# 6669  
 ZONED: RR-DEO

SO YEONG CHUN  
 "KOANDAH GARDENS ESTATES"  
 LOT 47  
 TM: 34  
 PARCEL: 78  
 L 8805 / F 199  
 PLAT# 15632  
 ZONED: RR-DEO

DETERMINE THAT  
 RECORDED ALL WELLS  
 AT RECORDATION. IT  
 TO SCHEDULE THE WELL  
 PERMISSION. IT WILL NOT BE  
 THE WELL DRILLING HOLDS UP  
 THE RECORD PLAT.  
 MINIMUM 10,000 SQ FT PRIVATE  
 ) BY THE MARYLAND STATE  
 INCREMENT FOR INDIVIDUAL SEWAGE  
 IF ANY NATURE IN THIS AREA ARE  
 AVAILABLE THESE EASEMENTS  
 SECTION TO A PUBLIC SYSTEM.  
 HAVE AUTHORITY TO GRANT  
 : EASEMENT. RECORDATION OF A  
 DT BE NECESSARY.

*Copy  
 Perc Cert  
 signed 8/15/14*

TOW = 516.7 - 1'

Highland Road

Proposed Lot 8

Proposed Lot 7

29B

26

23

29A

27

24

41

40

broad swale

26

dk brnsl

brnsl

3msbk

brn fsl  
many fine mica  
dense

brn fsl  
micaceous

brn sl  
micaceous

lt grey-brn  
w/ pale yellow  
lenses

24

brn sl

brn loam  
3msbk

brn sl  
7msbk

brn fsl heavy  
10% gravel

brn fsl sm  
many mica

grey-brn  
w/ yellow mica

dk grey-brn  
w/ yel-red & grey  
moist

water

40

Same as #24

To 25'

grey-brn sl  
few yellow spots

grey-brn sl  
micaceous

dk grey-brn  
w/ pale yel, grey, yel-red

water

27  
dk brnsl 0.3'  
brnsl 3msbk 1.2'  
brn fsl  
com. mica  
dense, heavy 3.0'  
lt. grey-brn  
& brn sl  
micaceous 8'  
lt. grey brn  
ls 10.9'  
pale brn  
w/ red & pale yellow  
11.2' water

23  
dk brnsl 0.2'  
brn loam  
w/ red heavy  
dense sl, many mica

27  
lt. grey brn sl  
micaceous

0.2'  
grey-brn  
ls, micaceous

12.4'  
dk grey brn  
pale yel, grey  
micaceous 13.2'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/12/11	27	3.8' / 6.8'	12:22	12:33	12:48	15	P
5/12/11	26	4.6' / 12.3'	12:39	12:51	1:07	16	P
5/12/11	24	4.3' / 10'	1:03	1:06	1:10	4	P
5/12/11	40	3.7' / 8.5'	1:23	1:28	1:37	9	P
5/12/11	23	4' / 12.4'	1:41	1:43	1:46	3	P
5/12/11	41	6.5' ← water level					F

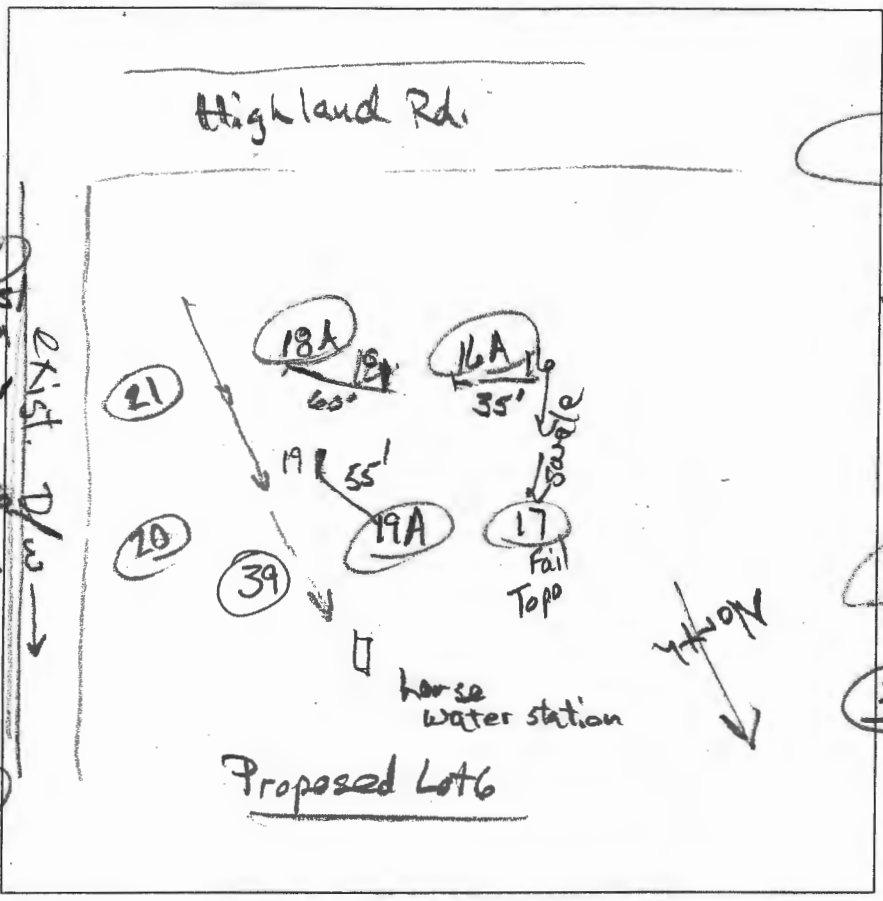
REMARKS \_\_\_\_\_  
 SANITARIAN RB BACKHOLE Chuck Zapp OTHERS Jeremy Rutter  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH 2' INLET DEPTH 3' MAX. BOT DEPTH Var EFFECTIVE SW var

(21)  
 dk brns /  
 brn loam  
 brn heavy sl  
 dense  
 3'  
 yel & yel red sl  
 to higher brn  
 sl, many mica  
 7.5'  
 dk brn ls  
 w/ yellow strata  
 micaceous  
 13.6'

(19A)  
 dk brn loam  
 brn heavy sl  
 3'  
 dk brn ls  
 ls, w/ yellow  
 strata  
 10'  
 dk brn sl  
 micaceous  
 w/ red & yel-red  
 & soft Mn masses  
 moist  
 water 11.2'

(18A)  
 dk brn loam  
 to brn loam  
 brn heavy  
 sl many  
 dense mica  
 4.5'  
 yel-red sl  
 5.0'

lt grey brn  
 sl, micaceous  
 10.2'  
 dk grey-brn  
 ls  
 12'



(20)  
 dk brns /  
 brn loam  
 brn heavy sl  
 4.3'  
 lt grey brn  
 sl, dsq  
 micaceous  
 7.5'  
 lt grey brn  
 ls micaceous  
 11.2'  
 pale yellow  
 & dk grey-brn sl  
 water  
 11.8'  
 (39)  
 dk brns /  
 brn loam  
 brn heavy sl  
 many mica  
 (25)  
 yel-red, yel  
 & lt grey-brn  
 sl, micaceous  
 4'  
 lt grey-brn  
 sl, micaceous  
 9.5'  
 dk brown  
 & yellow sl  
 10'  
 dk grey-brn  
 yel-red, pale yellow  
 water  
 10.2'

(16A)  
 dk brn loam  
 brn heavy sl  
 yel-red heavy sl  
 3.5'  
 brn & yellow  
 sl, micaceous  
 9.5'  
 dk brn ls  
 micaceous  
 12'

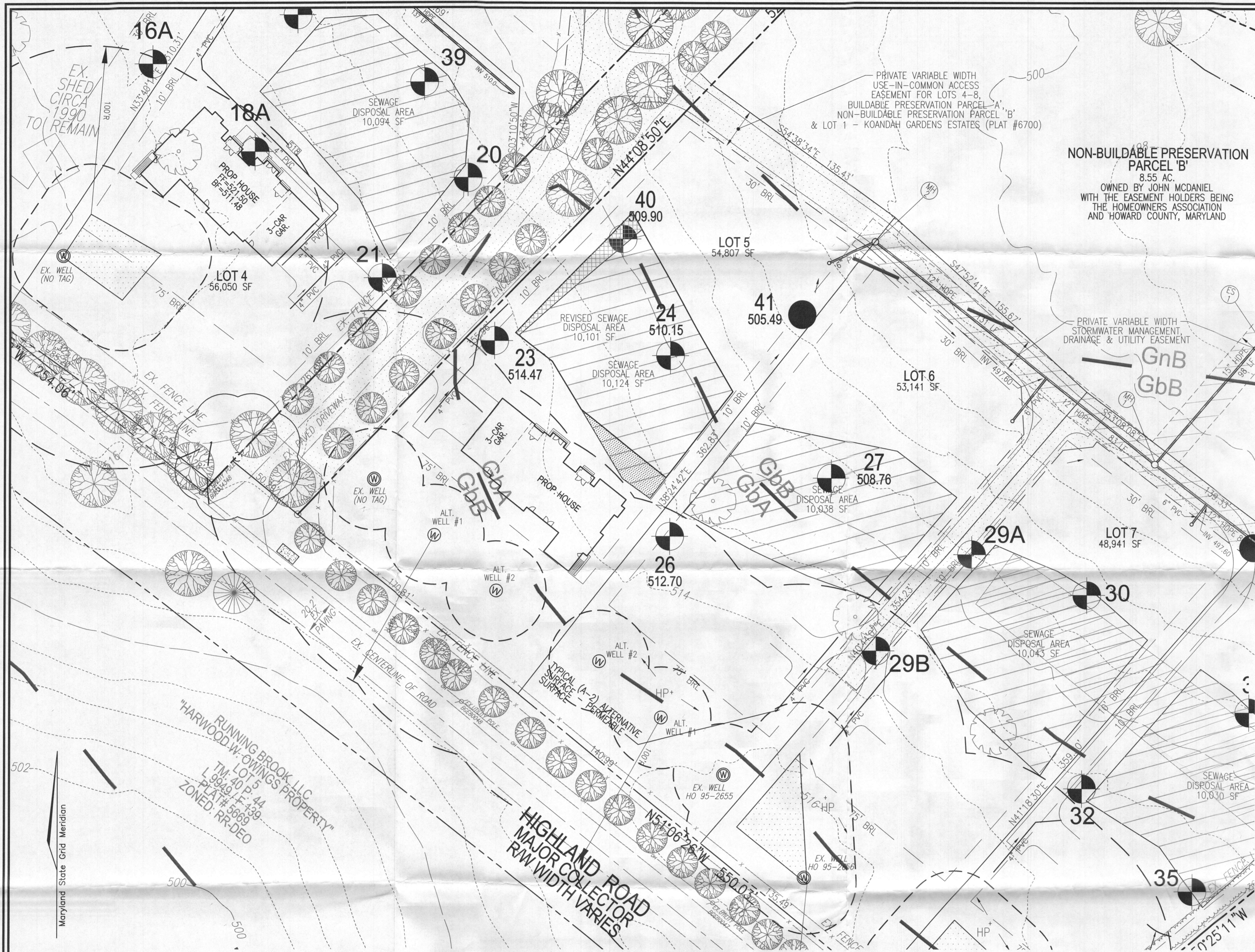
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/12/11	21	4.2' / 3.6'	0	1.5	3.7	2.2	P
5/12/11	20	4.6' / 11.2'	2:14	2:17	2:23	6	P
5/12/11	39	4.2' / 10'	0	1.7	4	2.3	P
5/12/11	19A	4.5' / 10'	2:59	3:01	3:04	3	P
5/12/11	16A	4.2' / 12'	3:15	3:18	3:23	5	P
5/12/11	18A	5.3' / 12'	3:27	3:33	3:44	11	P

REMARKS Did not dig #17

SANITARIAN RB BACKHOE Chuck Zepp OTHERS Jeremy Rutter

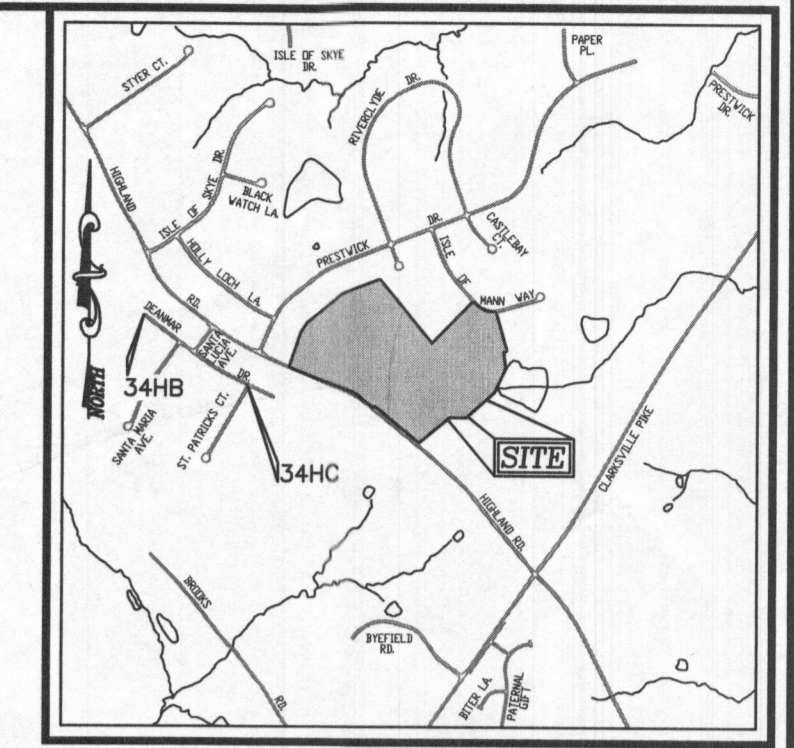
TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_



**LEGEND:**

- BOUNDARY LINE
- RIGHT-OF-WAY LINE
- EXISTING TREELINE
- EXISTING EDGE OF PAVING
- EXISTING STREAM
- EXISTING UTILITY POLE
- EXISTING FENCE LINE
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- SOILS
- PROP. ALTERNATE WELL LOCATION
- EX. WELL LOCATION
- FAILED PERC. TEST
- PASSED PERC. TEST
- ▨ APPROVED SEPTIC AREA
- ▩ SEPTIC AREA TO BE ADDED
- ▧ SEPTIC AREA TO BE REMOVED



- GENERAL NOTES**
1. THIS SUBJECT PROPERTY IS ZONED RR-DEO.
  2. PROPERTY OUTLINE SHOWN HEREON IS BASED ON FIELD BOUNDARY SURVEY PERFORMED BY ROBERT H. VOGEL ENGINEERING, INC., DATED APRIL, 2013.
  3. DEED REFERENCES: LIBER 6206 / FOLIO 657 (PARCEL 78)  
LIBER 1389 / FOLIO 401 (PARCEL 75)  
LIBER 1174 / FOLIO 541 (PARCEL 117)
  4. TOPOGRAPHY SHOWN HEREON IS OBTAINED FROM CURRENT HOWARD COUNTY GIS DATA, AND WAS FIELD VERIFIED TO BE ACCURATE IN NOVEMBER OF 2014.
  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 SEWAGE DISPOSAL AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
  8. ADJUSTMENT TO THE SEWAGE DISPOSAL AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
  9. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
  10. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
  11. ALL BUILDING SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.

**OWNER/DEVELOPER**  
JOHN P. MCDANIEL  
13032 HIGHLAND ROAD  
HIGHLAND, MD 20777  
ATTN: MR. JOE RUTTER  
(443) 367-0422

NO.	REVISION	DATE

**REVISED PERCOLATION CERTIFICATION PLAN**

**MCDANIEL PROPERTY - LOT 5**  
12992 HIGHLAND ROAD  
HIGHLAND, MD 20777  
(F-14-021)

5TH ELECTION DISTRICT  
TAX MAP: 34 GRID: 22  
TAX MAP: 40 GRID: 4

ZONED: RR-DEO  
PARCEL: 117 & 78 (LOT 29)  
HOWARD COUNTY, MARYLAND

**ROBERT H. VOGEL ENGINEERING, INC.**  
ENGINEERS • SURVEYORS • PLANNERS  
8407 MAIN STREET  
ELLCOTT CITY, MD 21043  
TEL: 410.461.7666  
FAX: 410.461.8961

DESIGN BY: R.H.V.  
DRAWN BY: J.M.R.  
CHECKED BY: R.H.V.  
DATE: SEPTEMBER 2016  
SCALE: AS SHOWN  
W.O. NO.: 08-43

1 SHEET OF 1

**NOTE:**  
THE PURPOSE OF THIS REVISED PERCOLATION CERTIFICATION PLAN IS TO REVISE THE SEPTIC EASEMENT ON LOT 5 IN ORDER TO ACCOMMODATE A LARGER HOUSE ON THE LOT.

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 SEWERAGE IS AVAILABLE. THESE AREAS 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 AREA. RECOGNITION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.

**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.

THOMAS M. HOFFMAN, L.S.  
LAND SURVEYOR No. 267

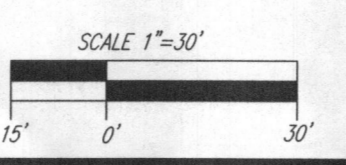
09-30-16  
DATE

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEM.

ROBERT H. VOGEL  
COUNTY HEALTH OFFICER

10/18/2016  
DATE

**PLAN VIEW**  
SCALE: 1"=30'

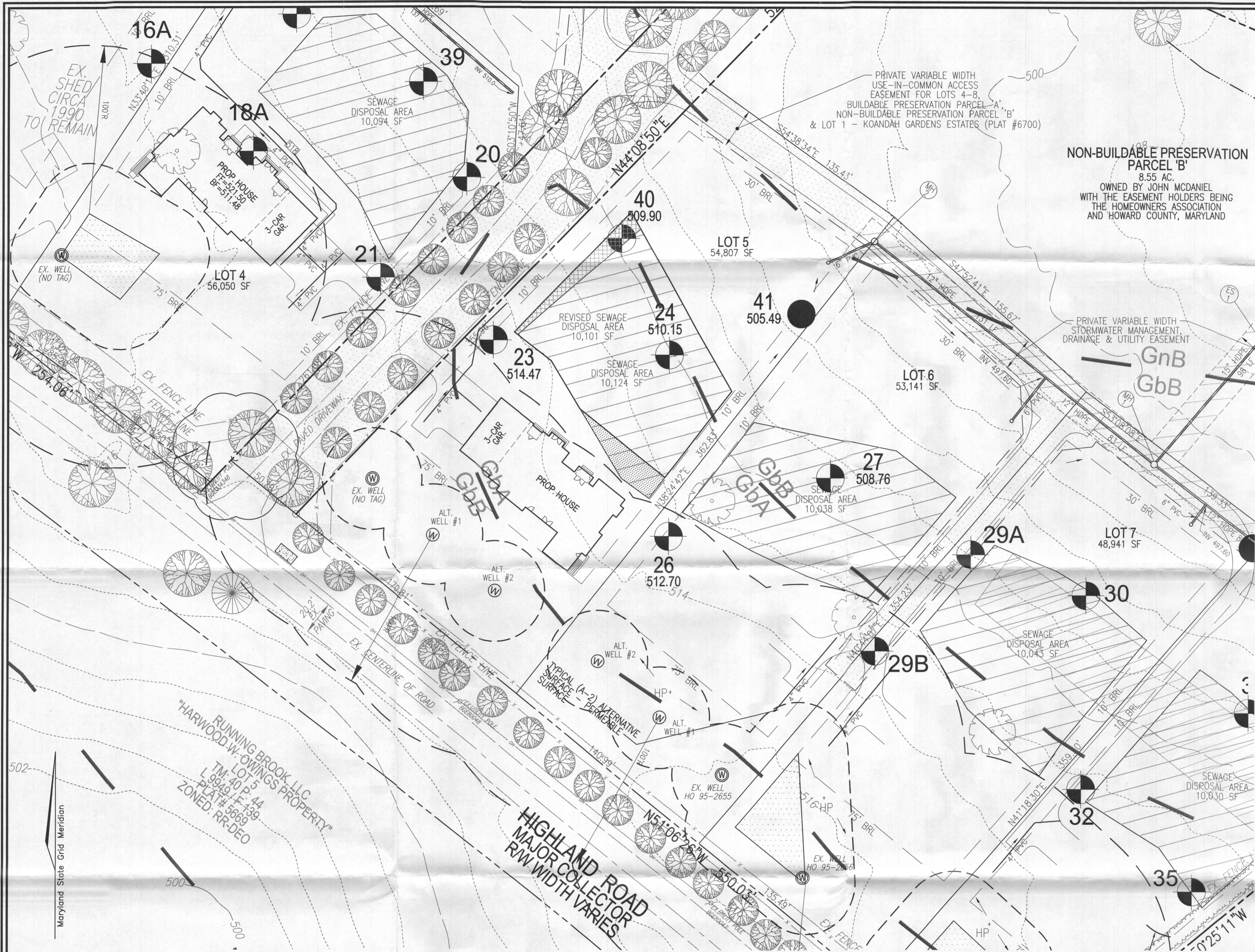


**MAPPED SOILS TYPES**

SYMBOL	NAME / DESCRIPTION	GROUP	HYDRIC	HYDRIC INCLUDING	K-FACTOR	PERC. PROBAB.	PERC. LOCATED
Gra	GLADSTONE LOAM, 0 TO 3 PERCENT SLOPES	B	NO	NO	0.20	YES	NO
Gbb	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	B	NO	NO	0.20	YES	NO
Gnb	GLENVILLE-BALLE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	PARTIALLY*	PARTIALLY*	0.37	NO	PARTIALLY*
W	WATER	---	---	---	---	---	---

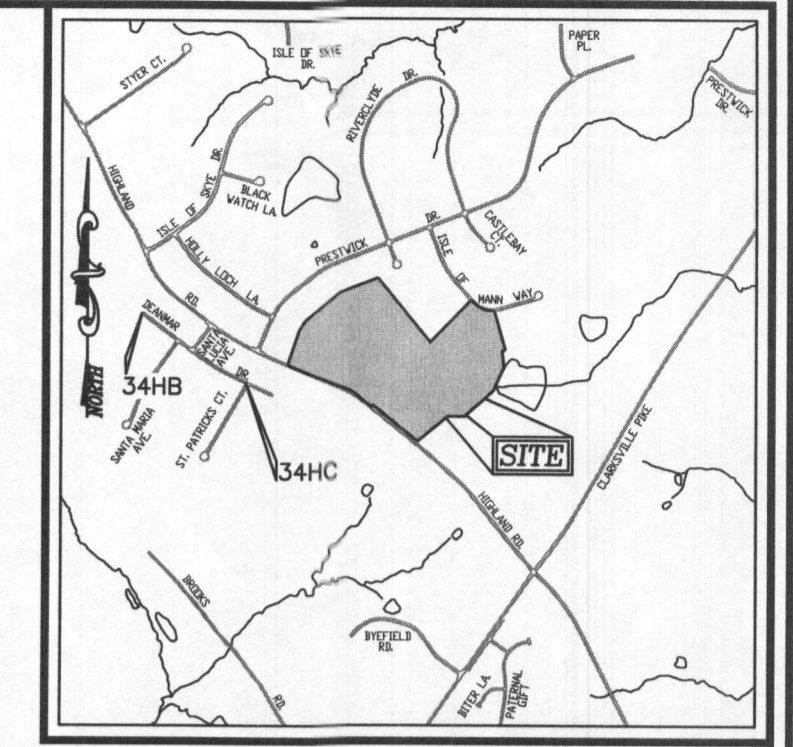
\*TAKE FROM: USDA, SCS-WEB SOIL SURVEY, HOWARD COUNTY  
\*BALE COMPONENT OF GNB, ERODIBILITY FACTOR IS 0.32 AND IS CONSIDERED HYDRIC

A:\Projects\2016\REVISED PERCOLATION CERTIFICATION PLAN\REVISED PERCOLATION CERTIFICATION PLAN.LOT 5.dwg 9/30/2016 11:46 AM



**LEGEND:**

- BOUNDARY LINE
- RIGHT-OF-WAY LINE
- EXISTING TREELINE
- EXISTING EDGE OF PAVING
- EXISTING STREAM
- EXISTING UTILITY POLE
- EXISTING FENCE LINE
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- SOILS
- PROP. ALTERNATE WELL LOCATION
- EX. WELL LOCATION
- FAILED PERC. TEST
- PASSED PERC. TEST
- APPROVED SEPTIC AREA
- SEPTIC AREA TO BE ADDED
- SEPTIC AREA TO BE REMOVED



- GENERAL NOTES**
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  - DEED REFERENCES: LIBER 6206 / FOLIO 657 (PARCEL 78)  
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LIBER 1174 / FOLIO 541 (PARCEL 117)
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  - ALL WELLS AND SEPTIC SYSTEMS WITHIN 100' FROM THE PROPERTY BOUNDARIES HAVE BEEN SHOWN.
  - ANY CHANGE TO A SEWAGE DISPOSAL AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
  - ADJUSTMENT TO THE SEWAGE DISPOSAL AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
  - THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
  - EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
  - ALL BUILDING SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.

**OWNER/DEVELOPER**  
 JOHN P. MCDANIEL  
 13032 HIGHLAND ROAD  
 HIGHLAND, MD 20777  
 ATTN: MR. JOE RUTTER  
 (443) 367-0422

NO.	REVISION	DATE

**REVISED PERCOLATION CERTIFICATION PLAN**

**MCDANIEL PROPERTY - LOT 5**  
 12992 HIGHLAND ROAD  
 HIGHLAND, MD 20777  
 (F-14-021)

5TH ELECTION DISTRICT  
 TAX MAP: 34 GRID: 22  
 TAX MAP: 40 GRID: 4

ZONED: RR-DEO  
 PARCEL: 117 & 78 (LOT 29)  
 HOWARD COUNTY, MARYLAND

**ROBERT H. VOGEL ENGINEERING, INC.**  
 ENGINEERS • SURVEYORS • PLANNERS  
 8407 MAIN STREET  
 ELLICOTT CITY, MD 21043  
 TEL: 410.461.7666  
 FAX: 410.461.8961

DESIGN BY: RHV  
 DRAWN BY: JMR  
 CHECKED BY: RHV  
 DATE: SEPTEMBER 2016  
 SCALE: AS SHOWN  
 W.O. NO.: 08-43

1 SHEET OF 1

**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.

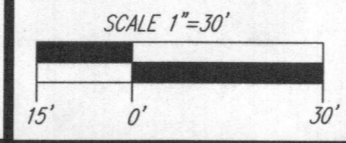
THOMAS M. HOFFMANN, JR.  
 LAND SURVEYOR NO. 267  
 9.30.16  
 DATE

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APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEM.

ROSEAN FOR MAURA ROSSMAN  
 COUNTY HEALTH OFFICER  
 10/18/2016  
 DATE

**PLAN VIEW**  
 SCALE: 1"=30'



**MAPPED SOILS TYPES**

SYMBOL	NAME / DESCRIPTION	GROUP	HYDRIC	PERCENT CLAY	K-FACTOR	PERCENT SAND	PERCENT SILT	PERCENT CLAY
GbA	GLADSTONE LOAM, 0 TO 3 PERCENT SLOPES	B	NO	NO	0.20	YES	NO	NO
GbB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	B	NO	NO	0.20	YES	NO	NO
GbC	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	PARTIALLY*	PARTIALLY*	0.37	NO	PARTIALLY*	NO
W	WATER							

TAKEN FROM: USDA, SCS-WEB SOIL SURVEY, HOWARD COUNTY  
 \*PALE COMPONENT OF GbB, EROSION FACTOR IS 0.32 AND IS CONSIDERED HYDRIC

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