



Howard County Health Department

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 535170
DATE 4-22-11

AGENCY REVIEW: _____

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 & ELEN 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 410-401-0961

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

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

PROPERTY LOCATION KOAHDAH GARDENS
SUBDIVISION/PROPERTY NAME MCDANIEL PROPERTY LOT NO. 0.7

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

TAX MAP PAGE(S) 3A 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]
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



(27)
 dk brnsl 0.3'
 brnsl 3msbk 1.2'
 brn fs l con. mica dense, heavy 3.0'
 lt. grey-brn & brn sl micaceous 8'
 lt. grey brn ls 10.8'
 pale brn w/ red & pale yellow 11.2' water

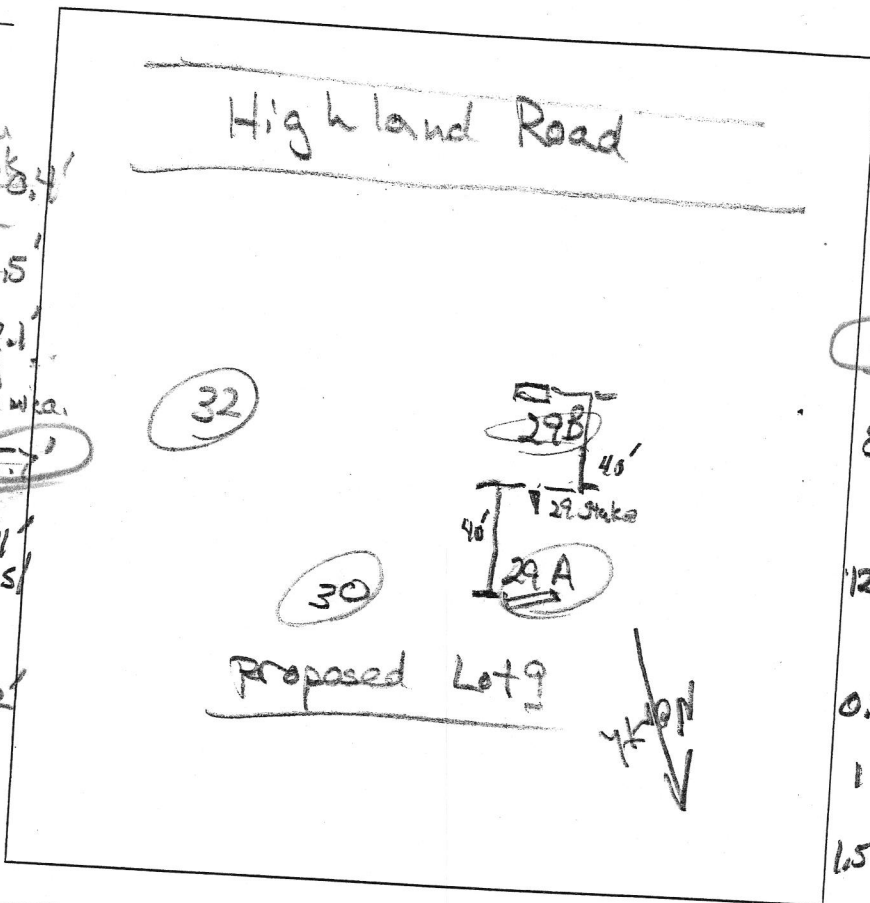
(25)
 dk brnsl 0.2'
 brn loam 1'
 w/ red heavy dense sl, many mica 2.7'
 lt. grey brn sl micaceous 10.2'
 grey-brn ls, micaceous 12.4'
 dk grey brn pale yellow, grey micaceous 13.2'

(26)
 dk brnsl 0.3'
 brnsl 3msbk 1'
 brn fs l many fine mica dense 3'
 brn fs l micaceous 8' w/ 4.4'
 brn sl micaceous 8'
 lt grey-brn w/ pale yellow lenses 12.3'
 (24)
 brn sl 0.2'
 brn loam 3msbk 0.8'
 brn sl 7msbk
 brn fs l heavy 10% gravel 1.8'
 brn fs l many mica 3'
 grey-brn sl yellow mica 10.2'
 dk grey-brn w/ yellow & grey moist water 10.2'

(40)
 Same as #24 To 25'
 grey-brn sl few yellow strata 7.9'
 grey-brn sl micaceous 8.5'
 dk grey brn w/ pale yellow, grey, pale red water 9.2'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/12/11	27	3.8' / 10.8'	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 BACKHOE 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 6.0' EFFECTIVE SW Var
 lower reserve area



30
 dk grey-brn sl 2' f/sbk
 brn loam 3' f/sbk
 yel-red sl 1.5'
 f/sbk 2.1'
 yel-red fsl common mica
 dense 5' m, dense
 grey-brn sl 5'
 pale yellow sl 11'
 C3d grey
 C2d yel-red

slight sticky

water 12'

29B
 dk grey-brn sl 1.2' f/sbk TO 3' f/sbk
 0.8'
 brn sl 3' f/sbk
 0.9'
 yel-red fsl common mica dense sl
 4'
 grey-brn sl micaceous
 8'
 H grey-brn ls w/ yel-red strata
 12.5' many mica

29A
 0.2' dk brn sl
 1' brn loam 3' f/sbk
 1.5' yel-red sl 3' f/sbk
 yel-red sl m, dense common mica
 2.7'

brn sl micaceous
 6' H grey-brn & yel-red ls, many mica
 11.2' pale yellow & grey w/ yel-red strata
 11.8' water

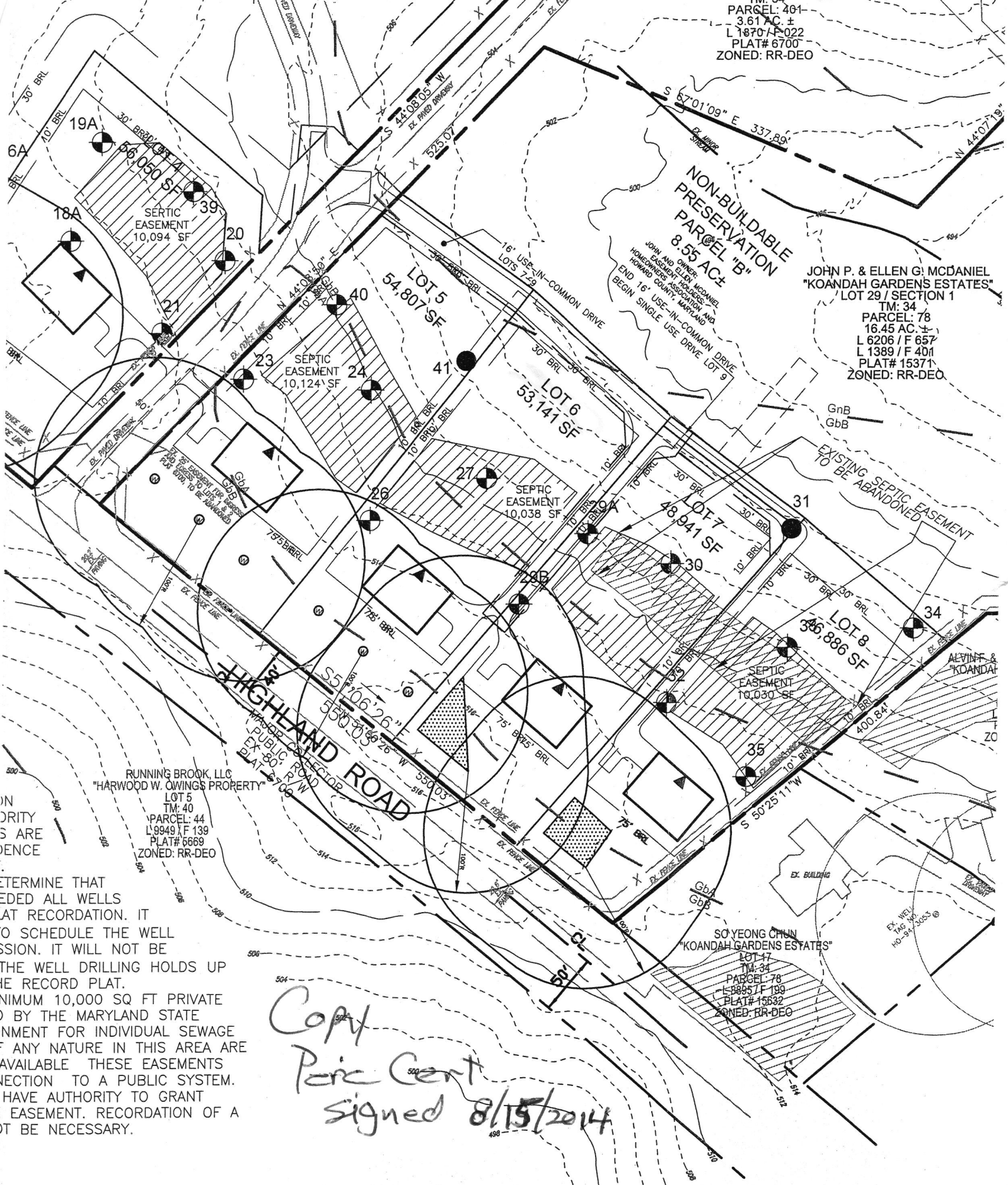
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/12/11	30	6' 11"	10:39	10:57	pulled	reshelf	
5/12/11	30	6.8' 11"	11:01	11:05	11:13	8	P
5/12/11	29B	4.5' 12.5'	0	1.5	3.6	2.1	P
5/12/11	29A	3.7' 11.2'	11:40	11:43	11:48	5	P

REMARKS _____
 SANITARIAN RB BACKHOE Chuck Zeff OTHERS Jeremy Rutter
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH 2' INLET DEPTH 3' MAX. BOT DEPTH 7' EFFECTIVE SW _____

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 1389 / F 657
 PLAT# 15371
 ZONED: RR-DEO

NON-BUILDABLE
 PRESERVATION
 PARCEL "B"
 8.55 AC ±



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 17
 TM: 34
 PARCEL: 78
 L 38857 / F 199
 PLAT# 15632
 ZONED: RR-DEO

DETERMINE THAT
 RECORDED ALL WELLS
 AT RECORDATION. IT
 TO SCHEDULE THE WELL
 ASSIGN. 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
 OF ANY NATURE IN THIS AREA ARE
 AVAILABLE THESE EASEMENTS
 SECTION TO A PUBLIC SYSTEM.
 HAVE AUTHORITY TO GRANT
 EASEMENT. RECORDATION OF A
 NOT BE NECESSARY.

Copy
 Peric Cert
 signed 8/15/2014

From: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Sent: Monday, January 6, 2025 1:01 PM
To: Jeremiah Reynolds <Jeremiah.Reynolds@timmons.com>; Rob Vogel <Rob.Vogel@timmons.com>; Silvast, Zackary <zsilvast@howardcountymd.gov>
Cc: Bruce Harvey <BruceHarvey@williamsburgllc.com>
Subject: RE: McDaniel Lot 6

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello all. I'll look into it and let you know
Jeff

From: Jeremiah Reynolds <Jeremiah.Reynolds@timmons.com>
Sent: Monday, January 6, 2025 11:51 AM
To: Rob Vogel <Rob.Vogel@timmons.com>; Williams, Jeffrey <jewilliams@howardcountymd.gov>; Silvast, Zackary <zsilvast@howardcountymd.gov>
Cc: Bruce Harvey <BruceHarvey@williamsburgllc.com>
Subject: RE: McDaniel Lot 6

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Zack and Jeff,

Attached are the original trench design specs for lot 6 issued on 09/19/16 by Robert Bricker.

Jeremiah Reynolds
Designer

VOGEL ENGINEERING + TIMMONS GROUP | www.timmons.com
3300 North Ridge Road, Suite 110 | Ellicott City, MD 21043
Office: 410.461.7666 | Fax: 410.461.8961
Your Vision Achieved Through Ours

To send me files greater than 20MB [click here](#).

From: Rob Vogel <Rob.Vogel@timmons.com>
Sent: Monday, January 06, 2025 11:37 AM
To: Williams, Jeffrey <jewilliams@howardcountymd.gov>; Silvast, Zackary <zsilvast@howardcountymd.gov>
Cc: Jeremiah Reynolds <Jeremiah.Reynolds@timmons.com>; Bruce Harvey <BruceHarvey@williamsburgllc.com>
Subject: McDaniel Lot 6

Zack and Jeff

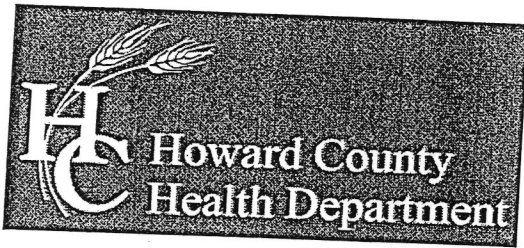
Attached is the original spec sheet published in 2011 and a new spec sheet which was just sent to us. This results in a substantial change in effective area. This lot was purchased based on the originally published data. Please verify that we can utilize the original spec sheet. Thanks, Rob

Robert H. Vogel P.E., M.ASCE
Principal

VOGEL ENGINEERING + TIMMONS GROUP | www.timmons.com
3300 N. Ridge Road, Suite 110 | Ellicott City, MD 21043

Office: 410.461.7666 | Fax: 410.461.8961
<https://www.linkedin.com/company/timmons-group>
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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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: _____

Subdivision: McDaniel Property Lot: 6

Initial system: Application rate: 0.8 Effective area beginning depth: 3.0 Bottom maximum depth: 8

23,24 1st Replacement: Application rate: 0.8 Effective area beginning depth: 3 Bottom maximum depth: 7.6

24,40 2nd Replacement: Application rate: 0.8 Effective area beginning depth: 3 Bottom maximum depth: 7.6

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:

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

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

Approved: R Bricker

Date: 9/19/2016

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

December 31st, 2024

TO: Robert Vogel (Timmons-VEI) via E-mail: Rob.Vogel@timmons.com
Jeremiah.Reynolds (Timmons) via E-mail: Jeremiah.Reynolds@timmons.com

RE: OSDS Plan 12958 (McDaniel Prop. "Lot 6")

OSDS Revision Comments

1. We need a scale 1:30 or 1:40 that focuses more on the desired property.
2. New spec sheet will alter the calculations and trench details. Those will have to be modified.
 - a. See attached.
3. Trench details need to be labeled more clearly with appropriate language.
 - a. All zones detailed.
4. Remove note #9.
5. It is suggested to remove bends, not entirely necessary for this lot.
 - a. Can get on contour better.
 - b. If you do show bends, they need to be called out with degree fitting and should be uniform through system.

Thank you for your time and consideration.

Zack Silvast

Zack Silvast (LEHS)

Plan Review Supervisor - Water & Sewer Division
410-313-1777

Environmental Health Bureau Howard County Health Department

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

Date: January 29, 2025
To: Howard County Health Department
Attn: Zack Silvast
Subject: McDaniel Property Lot 5; 12958 Highland Road
Project Number: 08-43.00

ATTACHED:

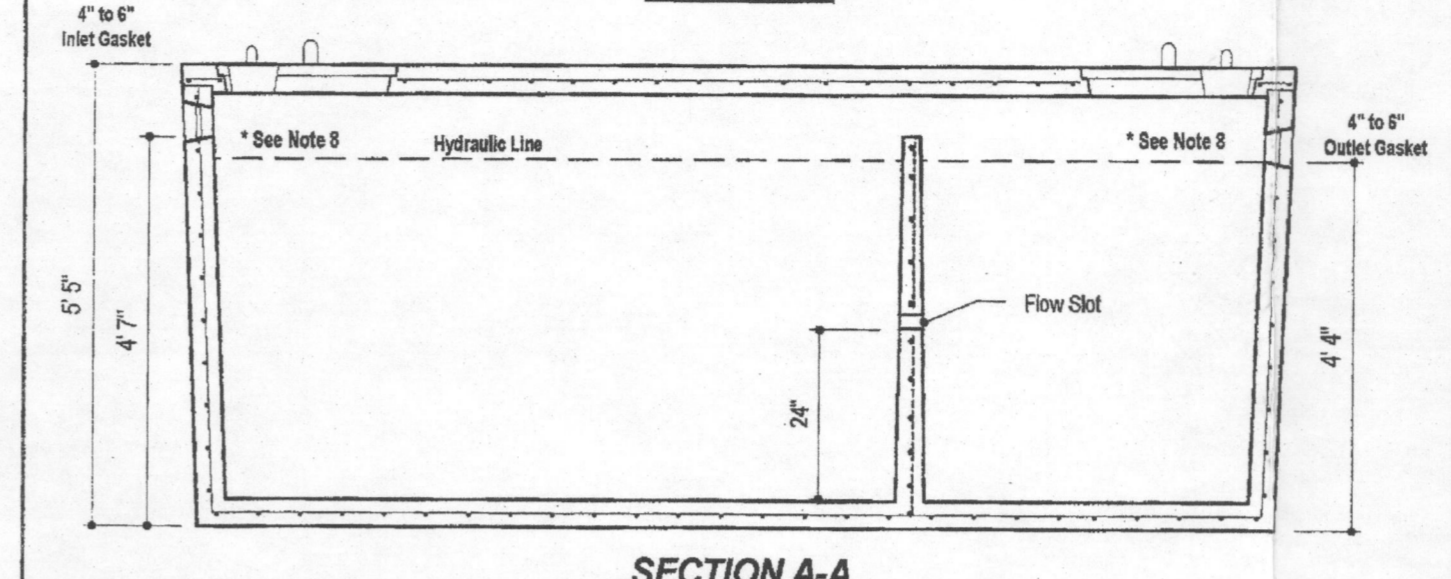
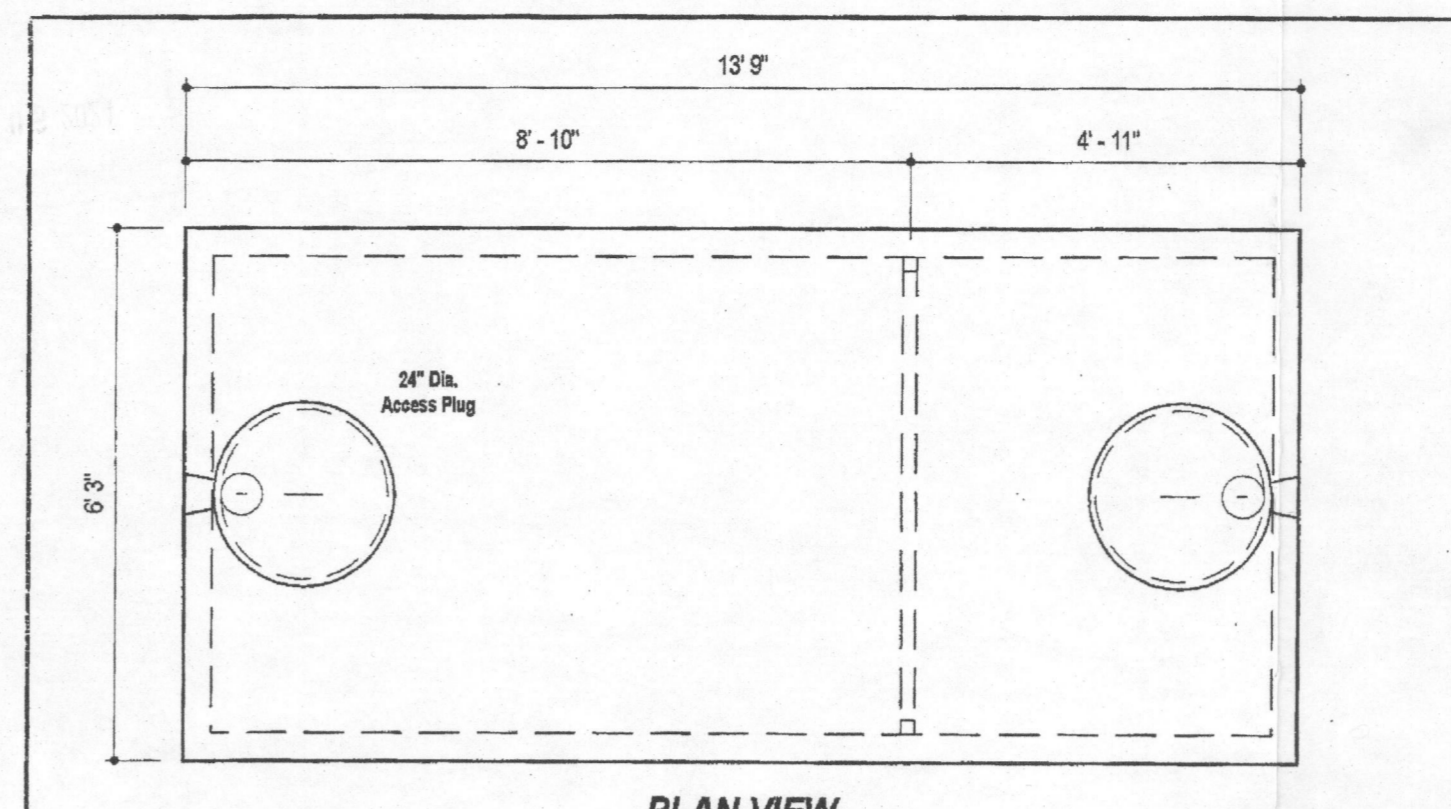
# Copies	Description
3	Revised OSDS Plan
3	Response Letter

Remarks: NO FEE

Please call 410-461-7666 with any questions or concerns you may have.

Thank you

Rob Vogel/Jeremiah Reynolds
Transmitted by: Kathleen Makusky



DESIGN DATA & GENERAL NOTES

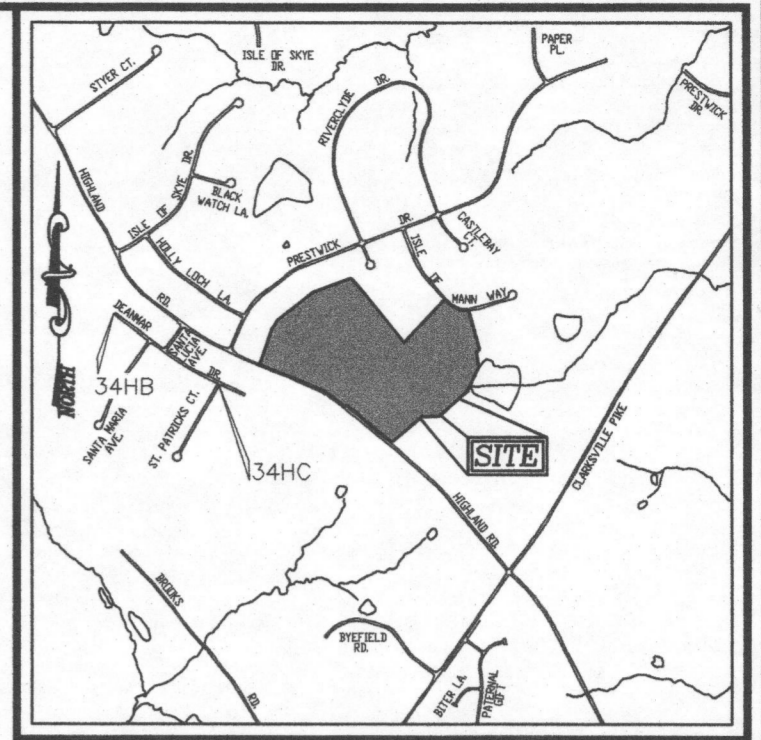
- (1) Concrete strength $f_{c'} = 4,000$ p.s.i. @ 28 days. Density = 150 pcf.
- (2) Cement - Portland Type III per ASTM C 150-02.
- (3) Aggregates & proportions per ASTM C 309-08 & C 494-02.
- (4) Reinforcing per ASTM A 630. Min. 4" cover.
- (5) Top slab sealed with butyl rope mastic.
- (6) 4" wall, 4" base, & 6" top thickness.
- (7) Max 2' of cover.
- (8) Depending on use of tank, inlet & outlet baffles may be required by code.

**2,000 GALLON SEPTIC TANK
2-Compartment**
Stock Item [Approx. 19,900 lbs]

Dwg. No. 2000-2C No Scale Aug 11, 2008

MBI
Mayer Bros., Inc. www.mayerbrosprocess.com

5284 Race Road
Elkridge, Maryland 21075
Tel: 410.796.1488
Fax: 410.796.1488



- LEGEND:**
- BOUNDARY LINE
 - RIGHT-OF-WAY LINE
 - EXISTING EDGE OF PAVING
 - EXISTING UTILITY POLE
 - EXISTING FENCE LINE
 - EXISTING 10' CONTOUR
 - EXISTING 2' CONTOUR
 - EXISTING TREES
 - PRIVATE VARIABLE WIDTH USE-IN-COMMON ACCESS EASEMENT
 - PROP. ALTERNATE WELL LOCATION
 - EX. WELL LOCATION
 - FAILED PERC. TEST
 - PASSED PERC. TEST
 - APPROVED SEPTIC AREA

WELL LOCATION CERTIFICATION:
THE EXISTING WELL SHOWN ON THIS PLAN (HO-95-2655) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN

PLAN VIEW
SCALE: 1"=50'

TRENCH INFO. (INITIAL)

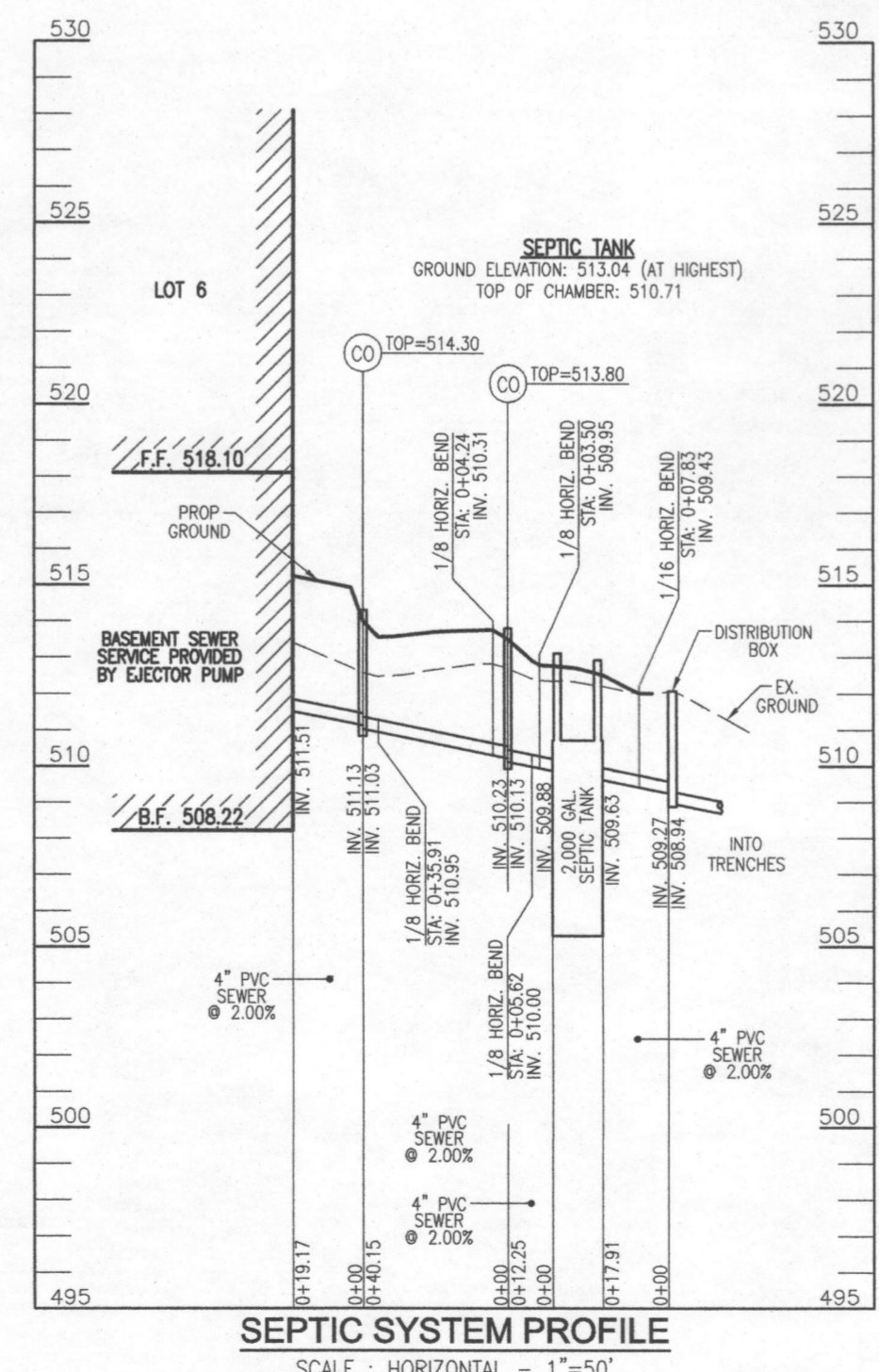
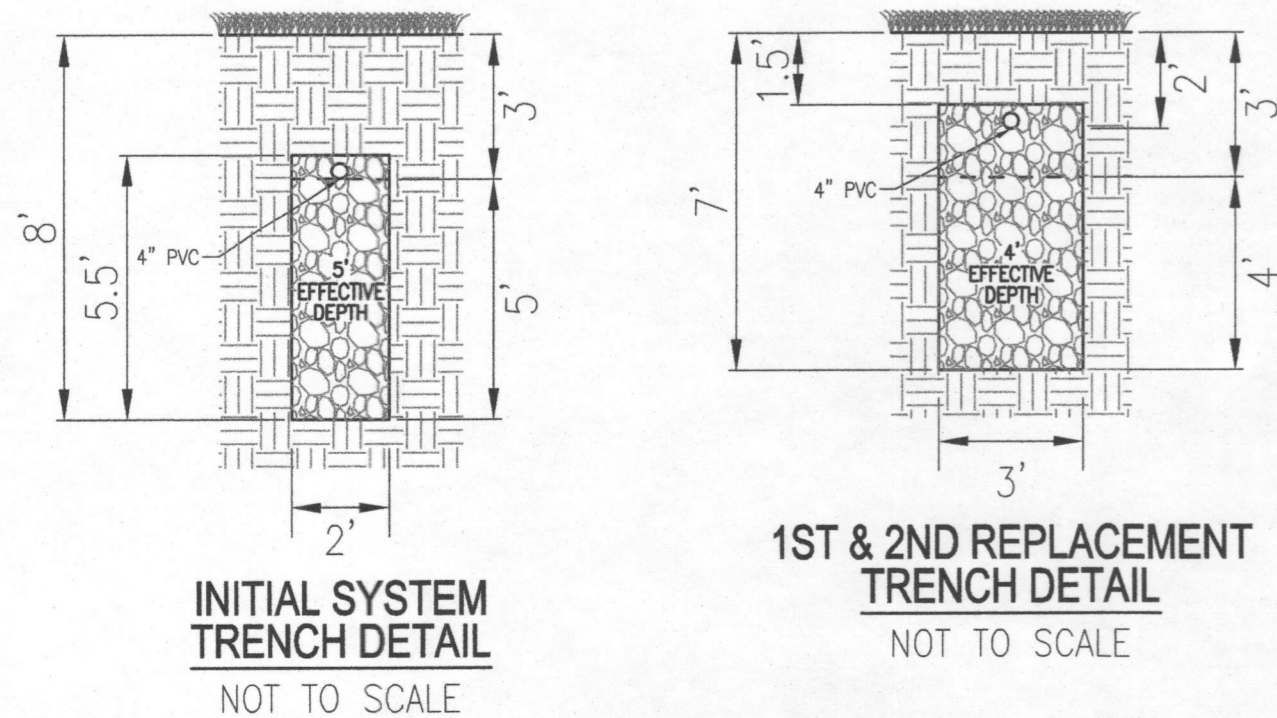
TRENCH	TRENCH INV.	INTO BOTTOM OF TRENCH	EXISTING GROUND	
1	58'	508.66	503.66	511.66
2	58'	508.66	503.66	511.66
3	58'	507.94	502.94	510.94

SYSTEM CALCULATIONS:

INITIAL SYSTEM:
6 BEDROOMS AT 900gpd / 0.8 ABSORPTION RATE = 1,125 SQ. FT.
1,125 SQ. FT. / 2 (TRENCH WIDTH) x .31 (SIDEWALL REDUCTION) = 174 LINEAR FEET
174 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE INITIAL SYSTEM
(3 TRENCHES OF 58' IN LENGTH)

FIRST REPLACEMENT SYSTEM:
6 BEDROOMS AT 900gpd / 0.8 ABSORPTION RATE = 1,125 SQ. FT.
1,125 SQ. FT. / 3 (TRENCH WIDTH) x .42 (SIDEWALL REDUCTION) = 158 LINEAR FEET
159 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE FIRST REPLACEMENT SYSTEM
(3 TRENCHES OF 53' IN LENGTH)

SECOND REPLACEMENT SYSTEM:
6 BEDROOMS AT 900gpd / 0.8 ABSORPTION RATE = 1,125 SQ. FT.
1,125 SQ. FT. / 3 (TRENCH WIDTH) x .42 (SIDEWALL REDUCTION) = 158 LINEAR FEET
159 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE SECOND REPLACEMENT SYSTEM
(3 TRENCHES OF 53' IN LENGTH)



THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL 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 SEWAGE DISPOSAL AREA. RECORDATION OF A MODIFIED SEWAGE DISPOSAL AREA SHALL NOT BE NECESSARY.

- GENERAL NOTES:**
1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
 2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
 3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
 4. THE WELL (HO-95-2655) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
 5. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
 6. ANY CHANGE TO A PRIVATE SEWAGE DISPOSAL AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 7. ADJUSTMENT TO THE PRIVATE SEWAGE DISPOSAL AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
 8. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.

Revise.
2/8/2024

OWNER
FAYAZ SYED
NADIA CHAUDHRY
8140 WESTSIDE BLVD.
FULTON, MD 20759
(313) 623-8279

BUILDER
WILLIAMSBURG HOMES, LLC.
5485 HARPERS FARM RD., SUITE 200
COLUMBIA, MD 21044
ATTN: MR. BRUCE HARVEY
(410) 997-8800

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

MCDANIEL PROPERTY - LOT 6
12958 HIGHLAND ROAD
HIGHLAND, MD 20777

BUILDING PERMIT # _____

PLATS: 23440-42
TAX MAP: 34 GRID: 22
5TH ELECTION DISTRICT

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

ROBERT H. VOGEL, PE No. 16193

DATE: NOVEMBER 2024
SCALE: AS SHOWN
W.O. NO.: 08-43

1 SHEET OF 1