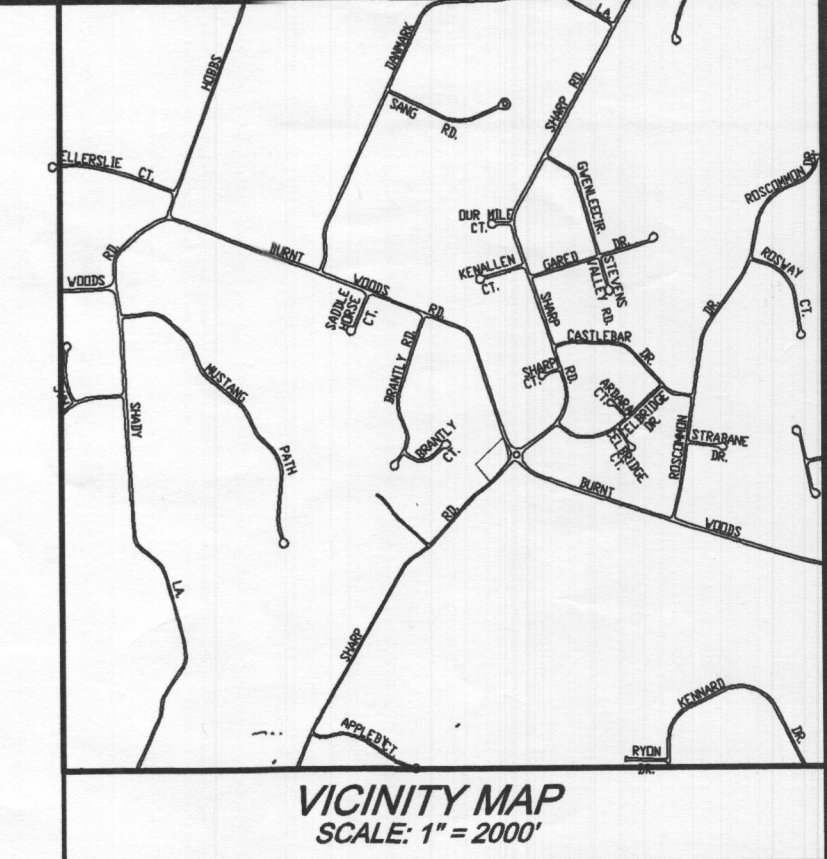


SOILS LEGEND				
SYMBOL	NAME/DESCRIPTION	SOIL GROUP	K-VALUE	HYDRO GROUP
GgB	Glenelg loam, 3 to 8 percent slopes	B	0.28	+
GgC	Glenelg loam, 8 to 15 percent slopes			
GnB	Glenville-Salis silt loams, 0 to 8 percent slopes			

SOIL TYPES BASED ON HOWARD COUNTY SOIL SURVEY MAP # 13 OF 29 / ELLICOTT CITY SW, MARYLAND



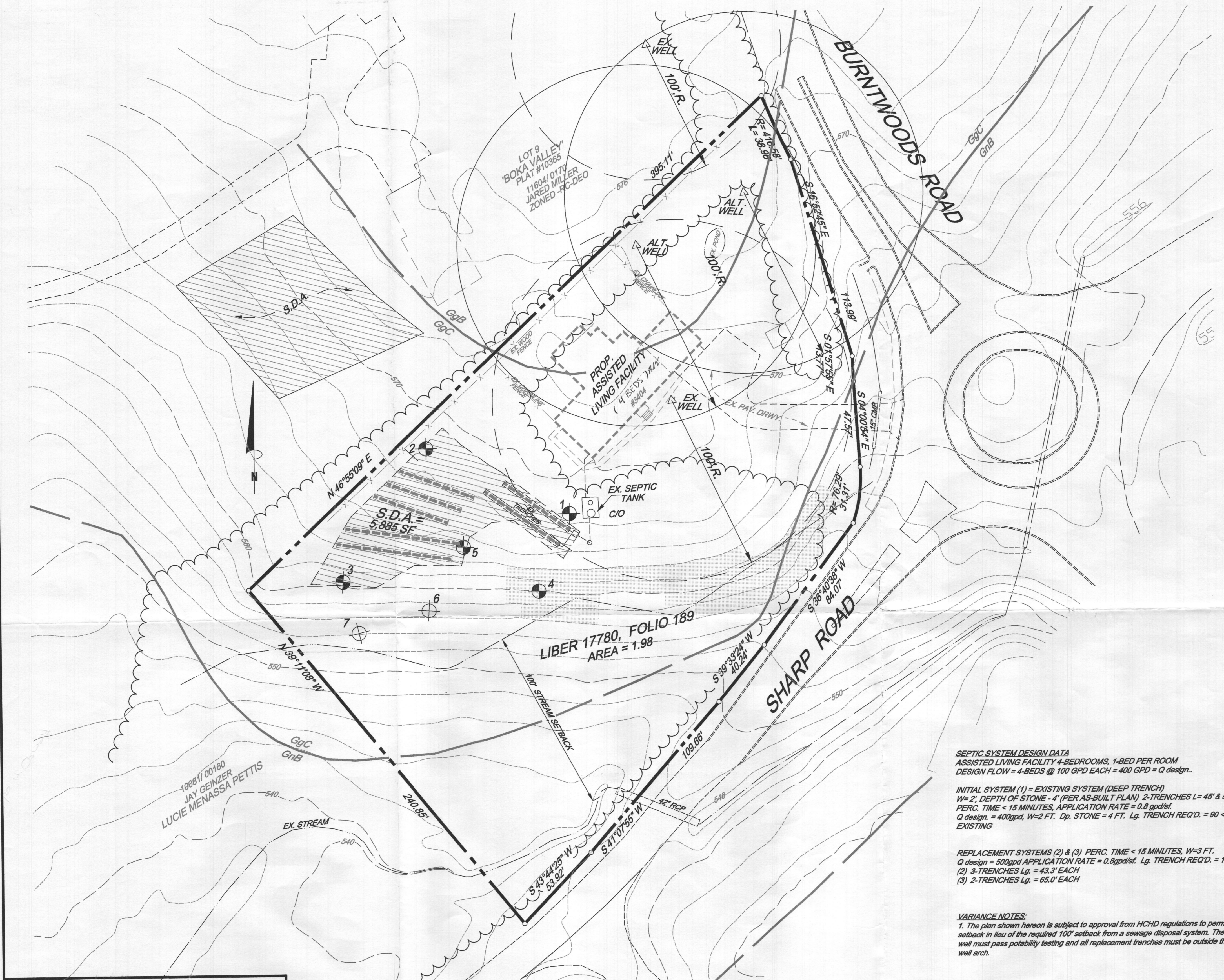
**GENERAL NOTES**

- OWNERS:  
MIZAN GEBREMICHAEL,  
YUDIT H. HAGOS  
3404 SHARP ROAD,  
GLENWOOD, MD, 21738  
DEED REFERENCE: LIBER 17780, FOLIO 189  
DATE: AUGUST 08, 2017  
GRANTOR: R. EARLE JOHNSTON, II
- TAX MAP 021, GRID 05, PARCEL 082
- THE BOUNDARY SHOWN HEREON IS BASED UPON LIBER 17780, FOLIO 0189
- SOILS BASED UPON NRCS - SOIL WEB MAPS
- WATER SERVICE IS PRIVATE, SEWER SERVICE IS PRIVATE
- THERE IS A 100 YEAR FLOOD PLAIN LOCATED ON THIS PROPERTY BASED ON FEMA INSURANCE RATE MAP COMMUNITY PANEL #40270048D ZONE 'X'
- TOPOGRAPHY SHOWN HEREON IS FIELD RUN BASED UPON HOWARD COUNTY GIS DATA MAY08, CONTOUR INTERVAL = 2 FT. CHECKED BY CRC & ASSOC., INC. AND IS AN ACCURATE REPRESENTATION OF FIELD CONDITIONS.
- THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100 FEET UNLESS SHOWN HEREON.
- SUBJECT PROPERTY IS ZONED RR-DEO

**HEALTH DEPARTMENT NOTES**

- This area designates a private sewage area as required by the Maryland State Department of the Environment for individual sewage disposal. For lots created prior to March of 1972 it provides at least enough area to accommodate an initial and two replacement septic systems as required. 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 area. Reconnection of a modified sewage area shall not be necessary.
- 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, septic systems, and sewage disposal areas within 100' of the property and those wells within 200' down gradient of existing or proposed septic systems or sewage disposal areas have been shown.
- Any changes to a private sewage area shall require a revised perc certification plan.
- Existing septic system is approved to serve a maximum of 4 resident assisted living facility. There are two rooms in the basement that are considered residential bedrooms per Howard County Code Sec. 3.307. These two bedrooms may not be used for residence in the assisted living facility. The current system is undersized for the existing 6 bedroom residential single family dwelling. **4/4**

- ⊕ DENOTES "PASSED" PERCOLATION TEST
- ⊖ DENOTES "FAILED" PERCOLATION TEST



**SEPTIC SYSTEM DESIGN DATA**  
ASSISTED LIVING FACILITY 4-BEDROOMS, 1-BED PER ROOM  
DESIGN FLOW = 4-BEDS @ 100 GPD EACH = 400 GPD = Q design.

**INITIAL SYSTEM (1) - EXISTING SYSTEM (DEEP TRENCH)**  
W=2', DEPTH OF STONE = 4" (PER AS-BUILT PLAN) 2-TRENCHES L= 45' & 51'  
PERC. TIME < 15 MINUTES, APPLICATION RATE = 0.8 gpd/sf  
Q design = 400gpd, W=2 FT. Dp. STONE = 4 FT. Lg. TRENCH REQ'D. = 90 < 96'  
EXISTING

**REPLACEMENT SYSTEMS (2) & (3) PERC. TIME < 15 MINUTES, W=3 FT.**  
Q design = 500gpd APPLICATION RATE = 0.8gpd/sf. Lg. TRENCH REQ'D. = 130'  
(2) 3-TRENCHES Lg. = 43.3' EACH  
(3) 2-TRENCHES Lg. = 66.0' EACH

**VARIANCE NOTES:**  
1. The plan shown hereon is subject to approval from HCHD regulations to permit a 70' well setback in lieu of the required 100' setback from a sewage disposal system. The existing well must pass potability testing and all replacement trenches must be outside the 100' well arch.

**LEGEND**

- EX. PROPERTY LINE
- EX. RIGHT-OF-WAY
- PROP. LOT LINES
- EX. EASEMENTS
- EX. CONTOURS
- EX. TREEWOODS LINE
- SOILS LINE
- DENOTES SLOPES 25% OR GREATER
- EX. SEWAGE DISPOSAL AREA

**THE PURPOSE OF THIS PLAN**  
IS TO ESTABLISH A SEWAGE DISPOSAL AREA AND A WELL AREA IN SUPPORT OF AN ANTICIPATED PERMIT APPLICATION FOR AN ASSISTED LIVING FACILITY 4-BEDROOMS.

NO.	DATE	REVISION
1		
2		

**PERCOLATION CERTIFICATION PLAN**  
**MIZAN GEBREMICHAEL PROPERTY**  
ASSISTED LIVING FACILITY  
LIBER 17780, FOLIO 189  
ZONED RR-DEO  
**#3404 SHARP ROAD**  
FOURTH ELECTION DISTRICT TAX MAP #21, GRID 05, PARCEL 82  
HOWARD COUNTY, MARYLAND

Prepared by:  
**CHARLES R. CROCKEN AND ASSOCIATES, INC.**  
902 LEE AVE.  
SYKESVILLE, MARYLAND 21157  
Tel. (410) 549-2708

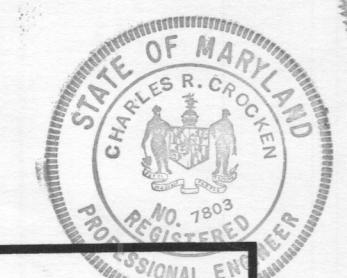
SCALE: 1"=30' DATE: 10/18/18 SHEET 1 OF 1

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

*Howard County Health Officer* 4/5/2019  
DATE

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. 7803 EXPIRATION DATE 4-23-2024 (2019)

*Charles R. Crocken* 3-14-19  
DATE  
CHARLES R. CROCKEN, PE MD. LICENSE REG. NO. 7803

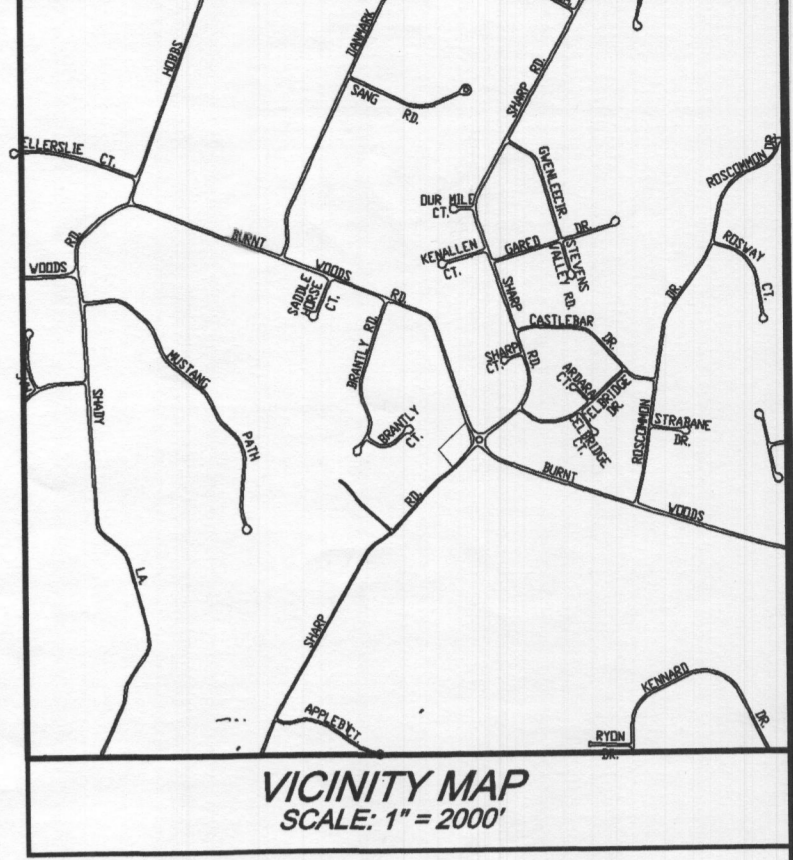


I HEREBY CERTIFY THAT THE PERCOLATION TEST LOCATIONS SHOWN HEREON ARE TO THE BEST OF MY KNOWLEDGE ARE CORRECT AS SHOWN.

*Charles R. Crocken* 3-14-19  
DATE  
CHARLES R. CROCKEN, PE MD. LICENSE REG. NO. 7803 (EXPIRATION DATE 4-23-2024)

SOILS LEGEND					
SYMBOL	NAME/DESCRIPTION	SOIL GROUP	K-VALUE	K-VALUE	HYDRO GROUP
GgB	Glenelg loam, 3 to 8 percent slopes	B	0.28	+	NOT HYDRO
GgC	Glenelg loam, 8 to 15 percent slopes				
GhB	Glenville-Bale silt loams, 0 to 5 percent slopes				

SOIL TYPES BASED ON HOWARD COUNTY SOIL SURVEY MAP # 13 OF 29 / ELLICOTT CITY SW, MARYLAND



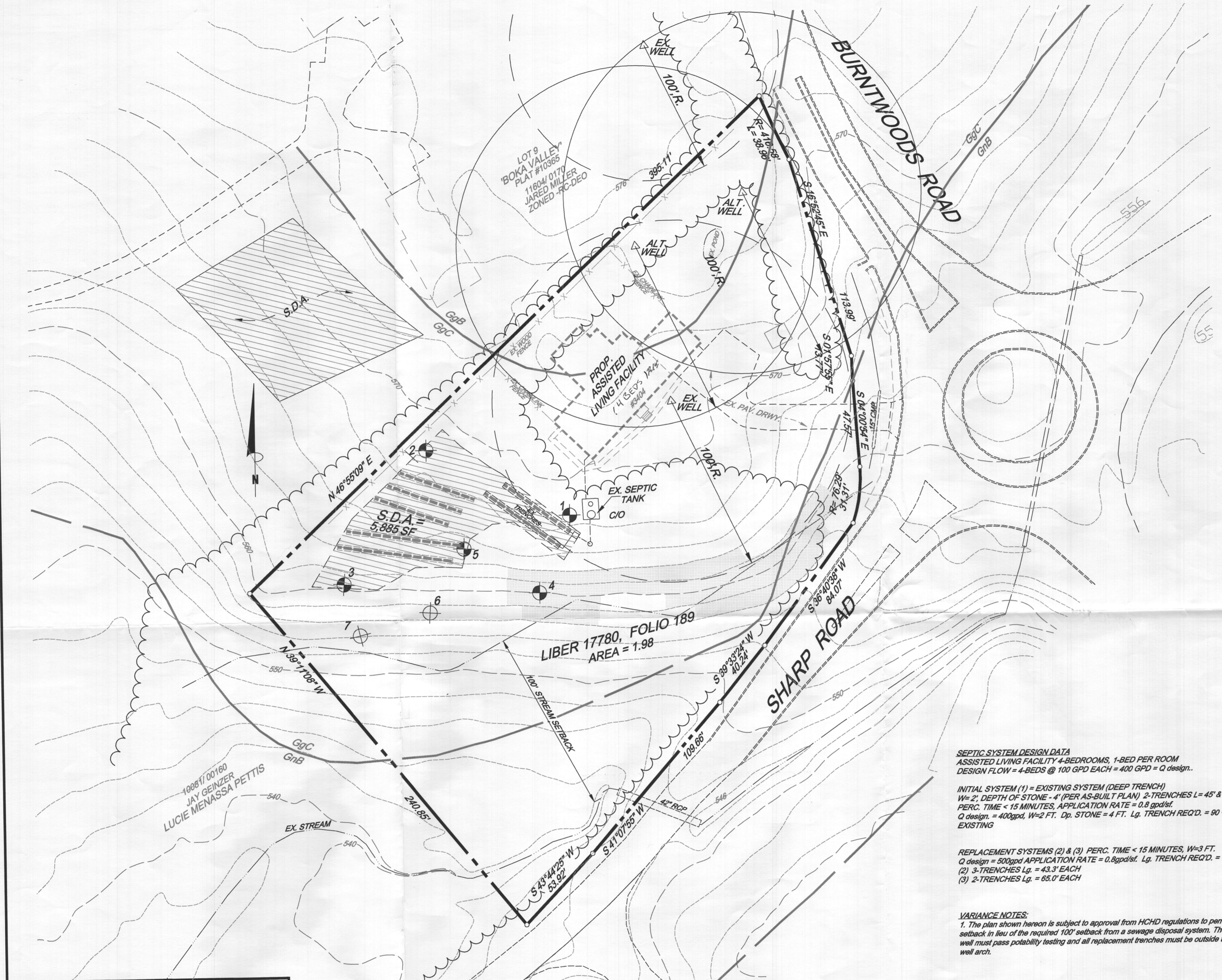
**GENERAL NOTES**

- OWNERS:  
MIZAN GEBREMICHAEL,  
YUDITH H. HAGOS  
3404 SHARP ROAD,  
GLENWOOD, MD. 21738  
DEED REFERENCE: LIBER 17780, FOLIO 189  
DATE: AUGUST 08, 2017  
GRANTOR: R. EARLE JOHNSTON, II
- TAX MAP 021, GRID 05, PARCEL 082
- THE BOUNDARY SHOWN HEREON IS BASED UPON LIBER 17780, FOLIO 189
- SOILS BASED UPON NRCS - SOIL WEB MAPS
- WATER SERVICE IS PRIVATE, SEWER SERVICE IS PRIVATE
- THERE IS A 100 YEAR FLOOD PLAIN LOCATED ON THIS PROPERTY BASED ON FEMA INSURANCE RATE MAP COMMUNITY PANEL #240270048D ZONE "X"
- TOPOGRAPHY SHOWN HEREON IS FIELD RUN BASED UPON HOWARD COUNTY GIS DATA NAVD83, CONTOUR INTERVAL = 2 FT. CHECKED BY CRC & ASSOC., INC. AND IS AN ACCURATE REPRESENTATION OF FIELD CONDITIONS.
- THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100 FEET UNLESS SHOWN HEREON.
- SUBJECT PROPERTY IS ZONED RR-DEO

**HEALTH DEPARTMENT NOTES**

- This area designates a private sewage area as required by the Maryland State Department of the Environment for individual sewage disposal. For lots created prior to March of 1972 it provides at least enough area to accommodate an initial and two replacement septic systems as required. 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 area. Recretation of a modified sewage area shall not be necessary.
- 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, septic systems, and sewage disposal areas within 100' of the property and those wells within 200' down gradient of existing or proposed septic systems or sewage disposal areas have been shown.
- Any changes to a private sewage area shall require a revised perc certification plan.
- Existing septic system is approved to serve a maximum of 4 resident assisted living facility. There are two rooms in the basement that are considered residential bedrooms per Howard County Code Sec 3.801. These two bedrooms may not be used for residence in the assisted living facility. The current system is undersized for the existing 6 bedroom residential single family dwelling. *RLC*

- ⊕ DENOTES "PASSED" PERCOLATION TEST
- ⊖ DENOTES "FAILED" PERCOLATION TEST



**SEPTIC SYSTEM DESIGN DATA**  
ASSISTED LIVING FACILITY 4-BEDROOMS, 1-BED PER ROOM  
DESIGN FLOW = 4-BEDS @ 100 GPD EACH = 400 GPD = Q design.

**INITIAL SYSTEM (1) = EXISTING SYSTEM (DEEP TRENCH)**  
W=2', DEPTH OF STONE - 4' (PER AS-BUILT PLAN) 2-TRENCHES L= 45' & 51'  
PERC. TIME < 15 MINUTES, APPLICATION RATE = 0.8 gpd/sf.  
Q design = 400gpd, W=2 FT. Dp. STONE = 4 FT. Lg. TRENCH REQ'D. = 90 < 96' EXISTING

**REPLACEMENT SYSTEMS (2) & (3) PERC. TIME < 15 MINUTES, W=3 FT.**  
Q design = 500gpd APPLICATION RATE = 0.8gpd/sf. Lg. TRENCH REQ'D. = 130'  
(2) 3-TRENCHES Lg. = 43.3' EACH  
(3) 2-TRENCHES Lg. = 65.0' EACH

**VARIANCE NOTES:**  
1. The plan shown hereon is subject to approval from HCHD regulations to permit a 70' well setback in lieu of the required 100' setback from a sewage disposal system. The existing well must pass potability testing and all replacement trenches must be outside the 100' well arch.

**LEGEND**

- EX. PROPERTY LINE
- EX. RIGHT-OF-WAY
- PROP. LOT LINES
- EX. EASEMENTS
- EX. CONTOURS
- PROP. CONTOURS
- EX. TREEWOODS LINE
- SOILS LINE
- DENOTES SLOPES 25% OR GREATER
- EX. SEWAGE DISPOSAL AREA

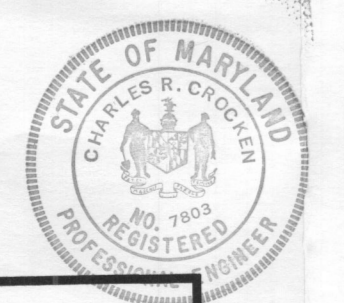
**THE PURPOSE OF THIS PLAN**  
IS TO ESTABLISH A SEWAGE DISPOSAL AREA AND A WELL AREA IN SUPPORT OF AN ANTICIPATED PERMIT APPLICATION FOR AN ASSISTED LIVING FACILITY 4-BEDROOMS.

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

*Howard County Health Officer*  
DATE: 4/5/2019

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. 7803 EXPIRATION DATE 4-22-2021

*Charles R. Crocken*  
DATE: 3-14-19



I HEREBY CERTIFY THAT THE PERCOLATION TEST LOCATIONS SHOWN HEREON ARE TO THE BEST OF MY KNOWLEDGE ARE CORRECT AS SHOWN.

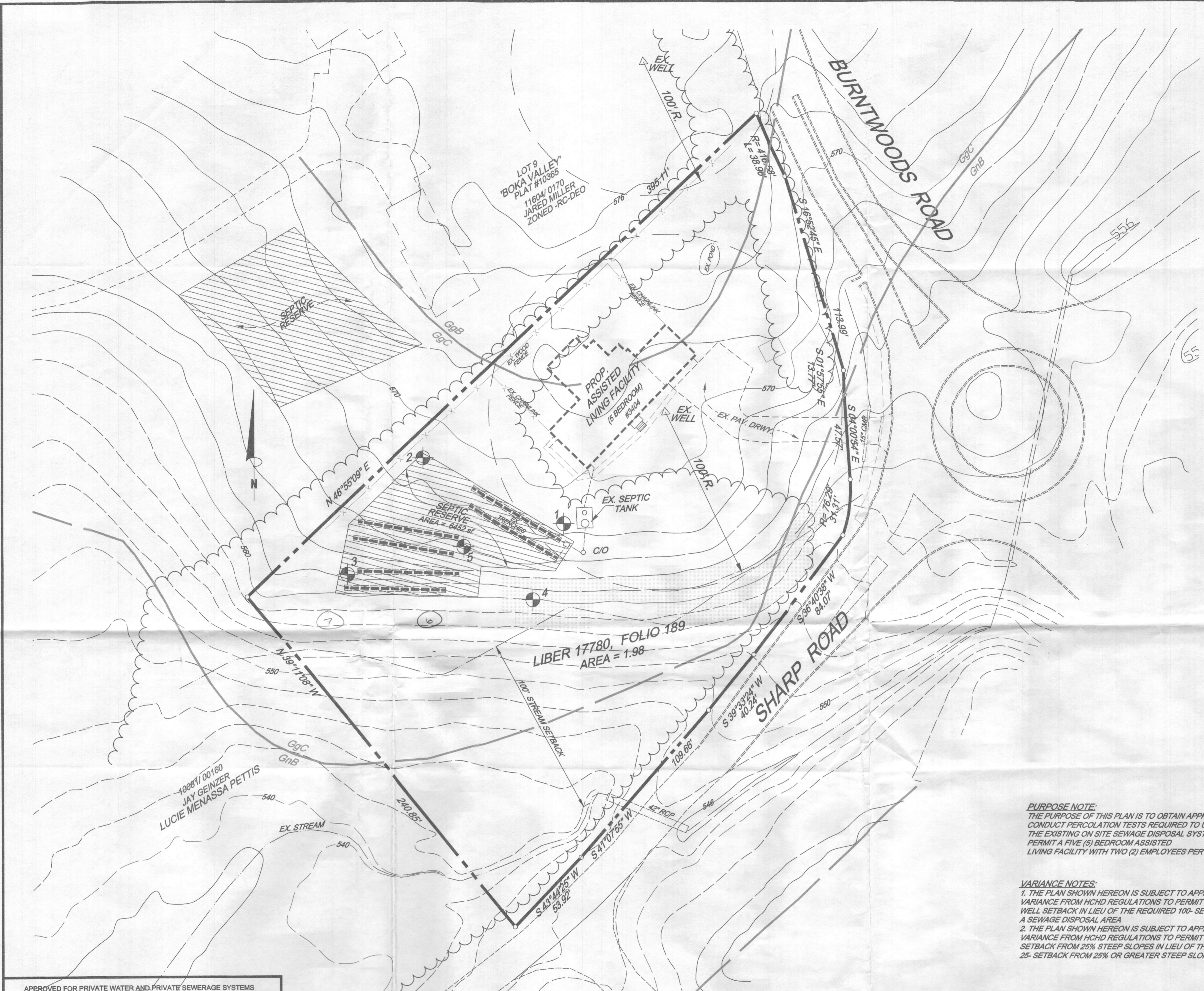
*Charles R. Crocken*  
DATE: 3-14-19

NO.	DATE	REVISION
1		
2		

**PERCOLATION CERTIFICATION PLAN**  
**MIZAN GEBREMICHAEL PROPERTY**  
ASSISTED LIVING FACILITY  
LIBER 17780, FOLIO 189  
ZONED RR-DEO  
**#3404 SHARP ROAD**  
FOURTH ELECTION DISTRICT TAX MAP #21, GRID 05, PARCEL 02  
HOWARD COUNTY, MARYLAND

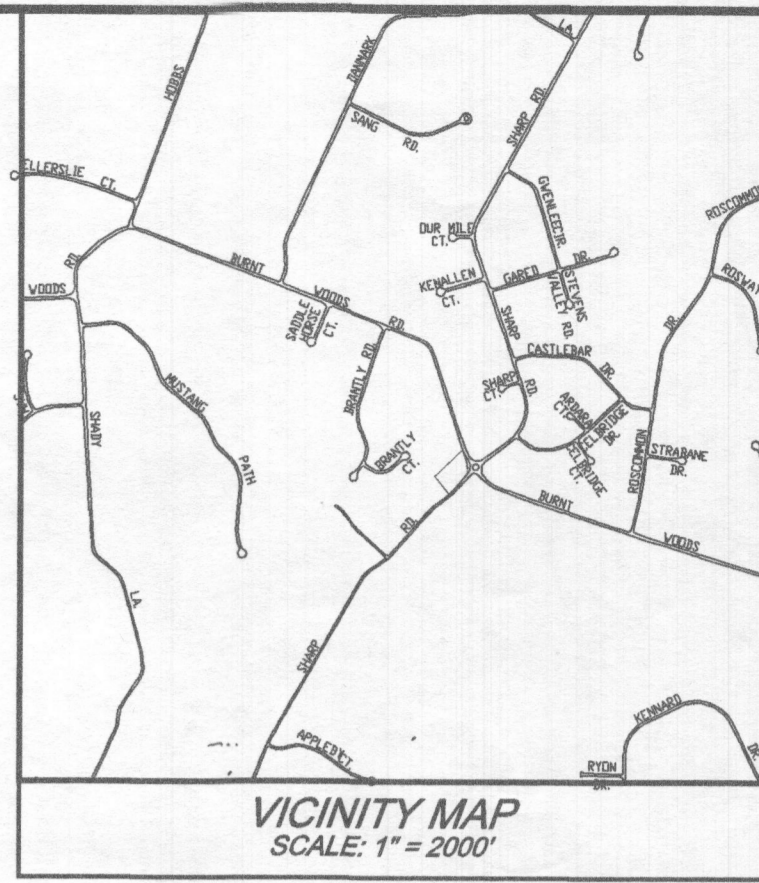
Prepared by:  
**CHARLES R. CROCKEN AND ASSOCIATES, INC.**  
902 LEE AVE.  
SYKESVILLE, MARYLAND 21157  
Tel. (410) 549-2728

SCALE: 1" = 30' DATE: 10/16/18 SHEET 1 OF 1



SOILS LEGEND					
SYMBOL	NAME/DESCRIPTION	SOIL GROUP	K VALUE	K VALUE	HYDRO GROUP
GgB	Glenaleg loam, 3 to 8 percent slopes	B	0.28	+	NOT HYDRO
GgC	Glenaleg loam, 8 to 15 percent slopes				
GgB	Glenaleg-Belle hill loams, 0 to 8 percent slopes				

SOIL TYPES BASED ON HOWARD COUNTY SOIL SURVEY MAP # 13 OF 29 / ELLICOTT CITY SW, MARYLAND



**GENERAL NOTES**

- OWNERS:  
MIZAN GEBREMICHAEL,  
YUDIT H. HAGOS  
3404 SHARP ROAD,  
GLENWOOD, MD. 21738  
DEED REFERENCE: LIBER 17780, FOLIO 189  
DATE: AUGUST 08, 2017  
GRANTOR: R. EARLE JOHNSTON, II
- TAX MAP 021, GRID 05, PARCEL 082
- THE BOUNDARY SHOWN HEREON IS BASED UPON LIBER 17780, FOLIO 0189
- SOILS BASED UPON NRCS - SOIL WEB MAPS
- WATER SERVICE IS PRIVATE, SEWER SERVICE IS PRIVATE
- THERE IS A 100 YEAR FLOOD PLAIN LOCATED ON THIS PROPERTY BASED ON FEMA INSURANCE RATE MAP COMMUNITY PANEL #402700048D ZONE 'X'
- TOPOGRAPHY SHOWN HEREON IS FIELD RUN BASED UPON HOWARD COUNTY GIS DATA (NAVD83) CONTOUR INTERVAL = 2 FT. CHECKED BY CRC & ASSOC., INC. AND IS AN ACCURATE REPRESENTATION OF FIELD CONDITIONS.
- THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100 FEET UNLESS SHOWN HEREON.
- SUBJECT PROPERTY IS ZONED RR-DEO
- THE PURPOSE OF THIS PLAN IS TO ESTABLISH A SEWAGE DISPOSAL AREA AND A WELL AREA IN SUPPORT OF AN ANTICIPATED BUILDING PERMIT APPLICATION

**HEALTH DEPARTMENT NOTES**

- 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. 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 area. Recordation of a modified sewage area shall not be necessary.
- 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, septic systems, and sewage disposal areas within 100' of the property and those wells within 200' down gradient of existing or proposed septic systems or sewage disposal areas have been shown.
- All wells shall be drilled prior to building permit approval. It is the developer's responsibility to schedule the well drilling prior to building permit submittal. It will not be considered "government delay" if the well drilling holds up Health Department approval of a building permit for new construction.
- Any changes to a private sewage area shall require a revised perc certification plan.
- Pre-treatment is proposed: An advanced pre-treatment system, which utilizes best available technology to perform nitrogen reduction, must be installed on the septic system located on subject property LIBER 17780, FOLIO 189 in accordance with MDE regulations. A supplemental site plan with all of the necessary details for installation of the system will be required prior to the release of the building permit (if applicable) and septic system installation permit. In addition, an operation and maintenance contract agreement must be filed with Howard County Land Records prior to release of the septic system permit.

☉ DENOTES "PASSED" PERCOLATION TEST

**PURPOSE NOTE:**  
THE PURPOSE OF THIS PLAN IS TO OBTAIN APPROVAL TO CONDUCT PERCOLATION TESTS REQUIRED TO UPGRADE THE EXISTING ON SITE SEWAGE DISPOSAL SYSTEM TO PERMIT A FIVE (5) BEDROOM ASSISTED LIVING FACILITY WITH TWO (2) EMPLOYEES PER SHIFT.

**VARIANCE NOTES:**  
1. THE PLAN SHOWN HEREON IS SUBJECT TO APPROVAL OF A VARIANCE FROM HCHD REGULATIONS TO PERMIT A 75 FOOT WELL SETBACK IN LIEU OF THE REQUIRED 100- SETBACK FROM A SEWAGE DISPOSAL AREA  
2. THE PLAN SHOWN HEREON IS SUBJECT TO APPROVAL OF A VARIANCE FROM HCHD REGULATIONS TO PERMIT A 10- SETBACK FROM 25% STEEP SLOPES IN LIEU OF THE REQUIRED 25- SETBACK FROM 25% OR GREATER STEEP SLOPES.

**LEGEND**

- EX. PROPERTY LINE
- EX. RIGHT-OF-WAY
- PROP. LOT LINES
- EX. EASEMENTS
- EX. CONTOURS
- PROP. CONTOURS
- EX. TREEWOODS LINE
- SOILS LINE
- DENOTES SLOPES 25% OR GREATER
- EX. SEWAGE DISPOSAL AREA

Test Plan

NO.	DATE	REVISION
1		
2		

PERCOLATION CERTIFICATION PLAN  
MIZAN GEBREMICHAEL PROPERTY  
ASSISTED LIVING FACILITY  
LIBER 17780, FOLIO 189  
ZONED RR-DEO  
**#3404 SHARP ROAD**  
FOURTH ELECTION DISTRICT TAX MAP #21, GRID 05, PARCEL 82

Howard County, Maryland  
Prepared by:  
**CHARLES R. CROCKEN AND ASSOCIATES, INC.**  
802 LEE AVE.  
SYKESVILLE, MARYLAND 21157  
Tel. (410) 549-2708

SCALE: 1" = 30'  
DATE: 10/16/18  
SHEET 1 OF 1

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

HOWARD COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

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. 7803 EXPIRATION DATE 4-22-17

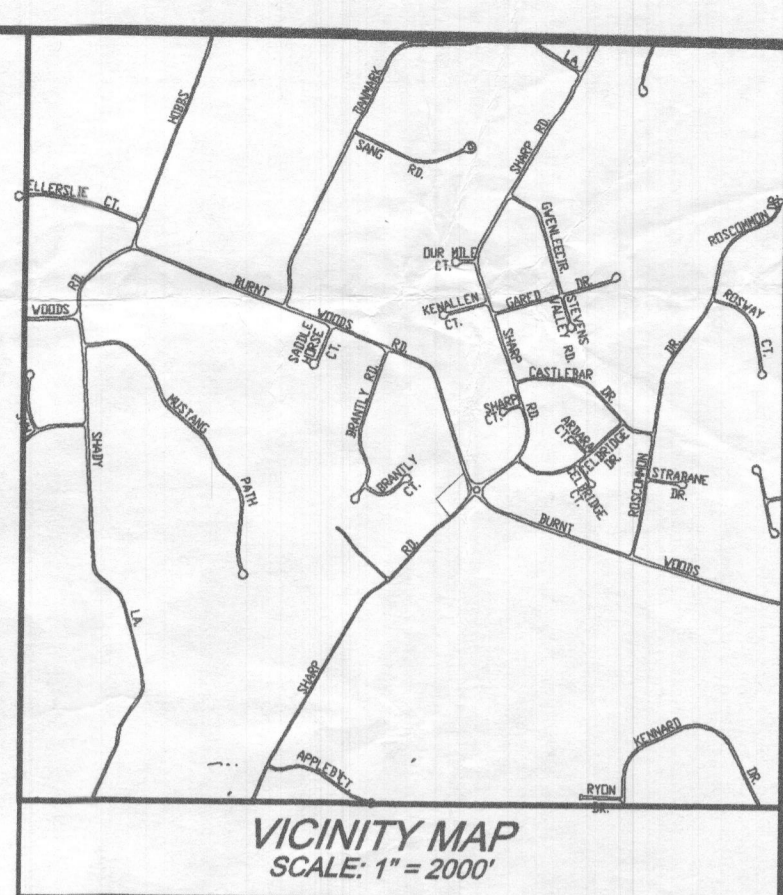
*Charles R. Crocken* 12-20-18  
CHARLES R. CROCKEN, PE MD. LICENSE REG. NO. 7803 DATE

I HEREBY CERTIFY THAT THE PERCOLATION TEST LOCATIONS SHOWN HEREON ARE TO THE BEST OF MY KNOWLEDGE ARE CORRECT AS SHOWN.

CHARLES R. CROCKEN, PE MD. LICENSE REG. NO. 7803 (EXPIRATION DATE 4-22-2017) DATE \_\_\_\_\_

SOILS LEGEND					
SYMBOL	NAME/DESCRIPTION	SOIL GROUP	K-VALUE	K-A VALUE	HYDRO GROUP
GgB	Clayey loam, 3 to 6 percent slopes	B	0.26	+	NOT HYDRO
GgC	Clayey loam, 6 to 15 percent slopes				
GmB	Clayey silt loam, 0 to 6 percent slopes				

SOIL TYPES BASED ON HOWARD COUNTY SOIL SURVEY MAP # 13 OF 29 / ELLICOTT CITY SW, MARYLAND



**GENERAL NOTES**

- OWNERS:  
MIZAN GEBREMICHAEL,  
YUDIT H. HADCS  
3404 SHARP ROAD,  
GLENWOOD, MD, 21738  
DEED REFERENCE: LIBER 17780, FOLIO 189  
DATE: AUGUST 08, 2017  
GRANTOR: R. EARLE JOHNSTON, II
- TAX MAP 021, GRID 05, PARCEL 082
- THE BOUNDARY SHOWN HEREON IS BASED UPON LIBER 17780, FOLIO 0189
- SOILS BASED UPON NRCS - SOIL WEB MAPS
- WATER SERVICE IS PRIVATE, SEWER SERVICE IS PRIVATE
- THERE IS A 100 YEAR FLOOD PLAIN LOCATED ON THIS PROPERTY BASED ON FEMA INSURANCE RATE MAP COMMUNITY PANEL #24027C048D ZONE 'X'
- TOPOGRAPHY SHOWN HEREON IS FIELD RUN BASED UPON HOWARD COUNTY GIS DATA NAVD88, CONTOUR INTERVAL = 2 FT. CHECKED BY CRC & ASSOC., INC. AND IS AN ACCURATE REPRESENTATION OF FIELD CONDITIONS.
- THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100 FEET UNLESS SHOWN HEREON.
- SUBJECT PROPERTY IS ZONED RR-DEO
- THE PURPOSE OF THIS PLAN IS TO ESTABLISH A SEWAGE DISPOSAL AREA AND A WELL AREA IN SUPPORT OF AN ANTICIPATED BUILDING PERMIT APPLICATION

**HEALTH DEPARTMENT NOTES**

- 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. 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 area. Recordation of a modified sewage area shall not be necessary.
- The lot shown hereon complies with the minimum ownership, width, and lot area as required by the Maryland State Department of the Environment.
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- All wells shall be drilled prior to building permit approval. It is the developer's responsibility to schedule the well drilling prior to building permit submittal. It will not be considered government delay+ if the well drilling holds up Health Department approval of a building permit for new construction.
- Any charges to a private sewage area shall require a revised perc certification plan.
- Pre-treatment is proposed: An advanced pre-treatment system, which utilizes best available technology to perform nitrogen reduction, must be installed on the septic system located on subject property LIBER 12058, FOLIO 388 in accordance with MDE regulations. A supplemental site plan with all of the necessary details for installation of the system will be required prior to the release of the building permit (if applicable) and septic system installation permit. In addition, an operation and maintenance contract agreement must be filed with Howard County Land Records prior to release of the septic system permit

☞ DENOTES "PASSED" PERCOLATION TEST

**PURPOSE NOTE:**  
THE PURPOSE OF THIS PLAN IS TO OBTAIN APPROVAL TO CONDUCT PERCOLATION TESTS REQUIRED TO UPGRADE THE EXISTING ON SITE SEWAGE DISPOSAL SYSTEM TO PERMIT A FIVE (5) BEDROOM ASSISTED LIVING FACILITY WITH TWO (2) EMPLOYEES PER SHIFT.

**VARIANCE NOTES:**  
1. THE PLAN SHOWN HEREON IS SUBJECT TO APPROVAL OF A VARIANCE FROM HCHD REGULATIONS TO PERMIT A 75 FOOT WELL SETBACK IN LIEU OF THE REQUIRED 100- SETBACK FROM A SEWAGE DISPOSAL AREA  
2. THE PLAN SHOWN HEREON IS SUBJECT TO APPROVAL OF A VARIANCE FROM HCHD REGULATIONS TO PERMIT A 10- SETBACK FROM 25% STEEP SLOPES IN LIEU OF THE REQUIRED 25- SETBACK FROM 25% OR GREATER STEEP SLOPES.

**LEGEND**

EX. PROPERTY LINE	---
EX. RIGH-OF-WAY	----
PROP. L'Y LINES	----
EX. EASEMENTS	----
EX. CONTOURS	112 110 108 106 104 102 100
EX. TREEWOODS LINE	~~~~~
SOILS LINE	H/C2 H/C22
DENOTES SLOPES 25% OR GREATER	[Hatched Box]
EX. SEWAGE DISPOSAL AREA	[Hatched Box]

PERCOLATION CERTIFICATION PLAN	
MIZAN GEBREMICHAEL PROPERTY	
ASSISTED LIVING FACILITY	
LIBER 17780, FOLIO 189	
ZONED RR-DEO	
#3404 SHARP ROAD	
FOURTH ELECTION DISTRICT TAX MAP #21, GRID 05, PARCEL 82	
HOWARD COUNTY, MARYLAND	
Prepared by:	CHARLES R. CROCKEN AND ASSOCIATES, INC.
	902 LEE AVE.
	SYKESVILLE, MARYLAND 21157
	Tel. (410) 549-2708
SCALE: 1"=30'	DATE: 10/18/18
	SHEET 1 OF 1

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

HOWARD COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

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. 7803 EXPIRATION DATE 4-22-19

*Charles R. Crocken* 12-20-18  
CHARLES R. CROCKEN, PE MD. LICENSE REG. NO. 7803 DATE

I HEREBY CERTIFY THAT THE PERCOLATION TEST LOCATIONS SHOWN HEREON ARE TO THE BEST OF MY KNOWLEDGE ARE CORRECT AS SHOWN.

CHARLES R. CROCKEN, PE MD. LICENSE REG. NO. 7803 (EXPIRATION DATE 4-22-2017) DATE \_\_\_\_\_

