

**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](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

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

RECEIPT DATE: 5/2/19 **ONSITE SEWAGE DISPOSAL SYSTEM** P565468

APPROVAL DATE: 05/03/2019 **PERMIT: CONSTRUCTION** A \_\_\_\_\_

PROPERTY ADDRESS: 14522 Ambreen Way

SUBDIVISION: Percival Property LOT: 3 TAX ID: \_\_\_\_\_

CONTRACTOR: JEA Construction EMAIL: \_\_\_\_\_

CONTRACTOR ADDRESS: \_\_\_\_\_ PHONE: 301.674.6730

PROPERTY OWNER: Burkard Homes LLC EMAIL: \_\_\_\_\_

OWNER ADDRESS: 5850 Waterloo Road PHONE: \_\_\_\_\_

SEPTIC TANK SIZE (GALLONS): 2,000 TANK MANUFACTURER: Mayer Bros. BABULON

PUMP MODEL: \_\_\_\_\_ PUMP SIZE \_\_\_\_\_ PUMP TANK CAPACITY: \_\_\_\_\_

DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 1.2

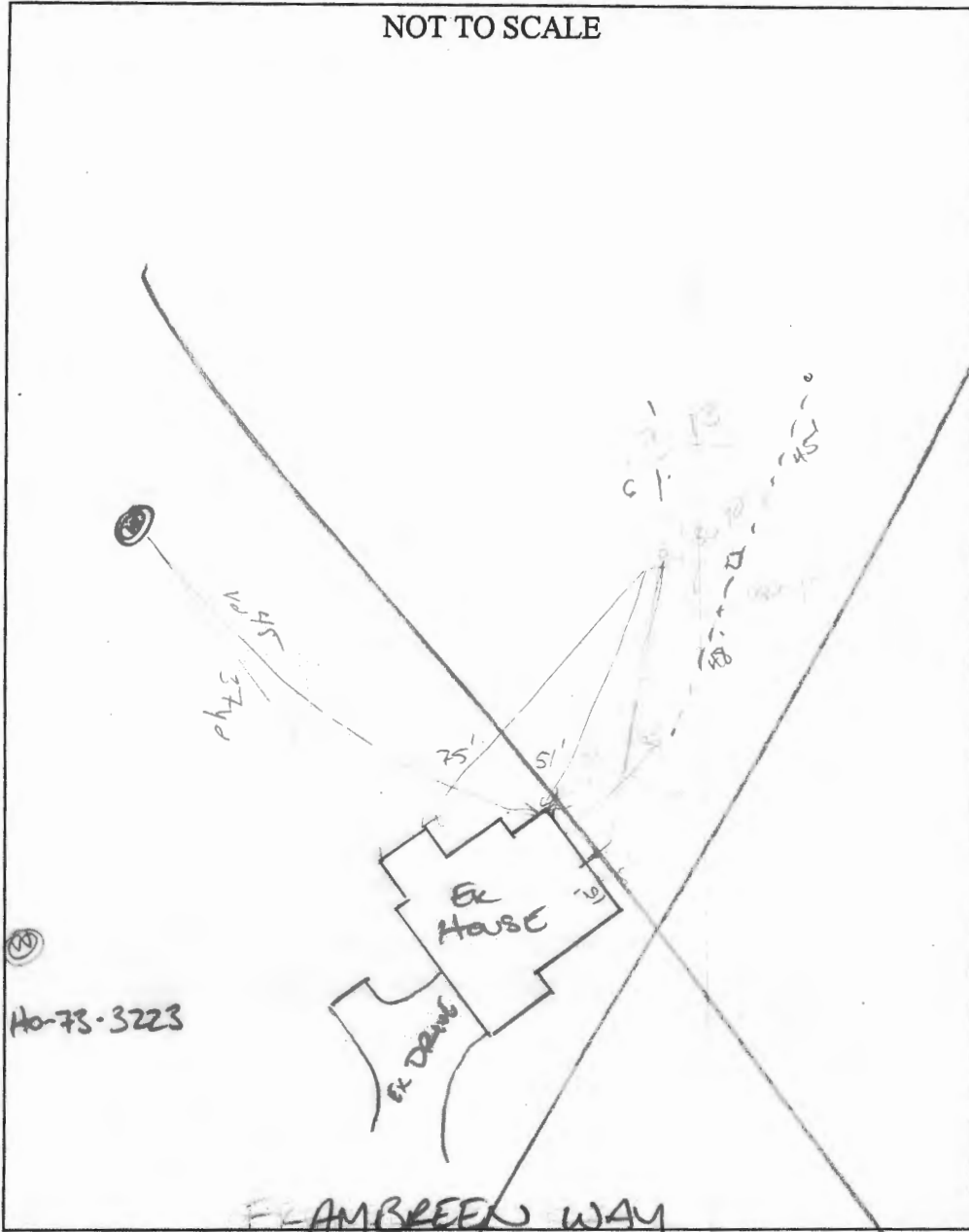
TRENCHES:	LINEAR FEET REQUIRED: <u>91.7 FT.</u>	INLET DEPTH: <u>4 FT.</u>
	TRENCH WIDTH: <u>3 FT.</u>	MAXIMUM BOTTOM DEPTH: <u>6.5 FT.</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10 FT.</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4 FT.</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Install 2 - 46 FT. Trenches	

ISSUED BY: Hank Oswalt ISSUE DATE: 5/2/19 EXPIRATION DATE: 5/2/20

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM
  - ELECTRICAL PERMIT ISSUED E N/A
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.  
 PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.  
 CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

NOT TO SCALE



Ho-73-3223

FLAMBREEN WAY

PRE-CONSTRUCTION:

5/6/2019 TRENCH CHECKED AND CONTINUED.

INSTALLATION:

5/6/2019 SHC INSTALLED. TANK SET AND POINTED TO REMOVE 90° BEFORE INLET OR TO CONTINUE. (P)

5/7/2019 TRENCHES COMPLETE. (P)

P BOX INSTALLED. AND SPEED LEVEL OK TO BACKFILL. (P)

**TRENCH/DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
_____	_____	_____
NUMBER OF TRENCHES _____		
TOTAL LENGTH _____		
ABSORPTION AREA _____		
DISTRIBUTION BOX LEVEL _____		
DISTRIBUTION BOX BAFFLE _____		
DISTRIBUTION BOX PORT _____		

**NORWECO SINGULAIR TNT**

CAPACITY 2000 GAL

SEAM LOC TOP

TANK LID DEPTH ~1'

BAFFLES \_\_\_\_\_

BAFFLE FILTER \_\_\_\_\_

MANHOLE LOC \_\_\_\_\_

6" PORT LOC \_\_\_\_\_

WATERTIGHT TEST \_\_\_\_\_

BLOWER TEST \_\_\_\_\_

BLOWER ALARM TEST \_\_\_\_\_

3/19/19

PUMP TANK LEVEL \_\_\_\_\_

CAPACITY \_\_\_\_\_ GAL

SEAM LOC \_\_\_\_\_

TANK LID DEPTH \_\_\_\_\_

BAFFLES \_\_\_\_\_

MANHOLE LOC \_\_\_\_\_

6" PORT LOC \_\_\_\_\_

WATERTIGHT TEST \_\_\_\_\_

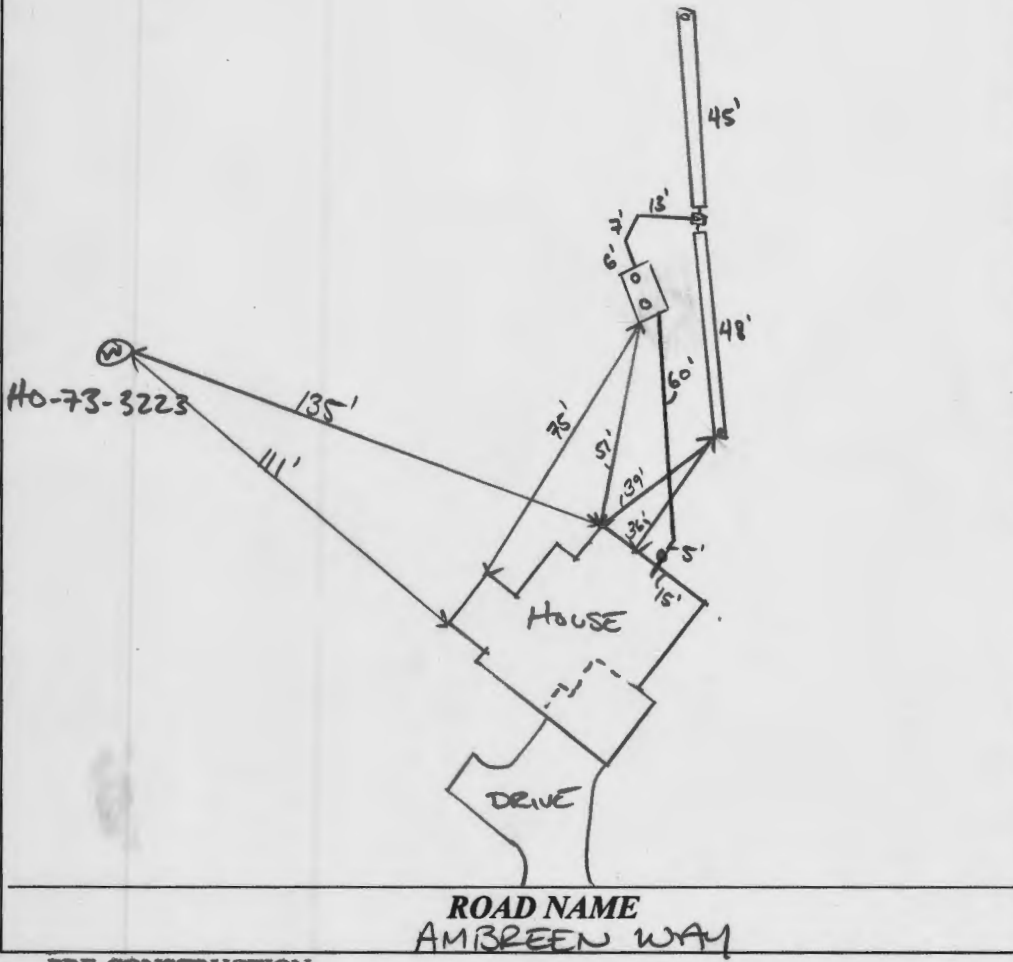
PUMP TEST \_\_\_\_\_

PUMP ALARM TEST \_\_\_\_\_

FINAL INSPECTOR \_\_\_\_\_ DATE OF APPROVAL \_\_\_\_\_

NOT TO SCALE

≈ 1:50

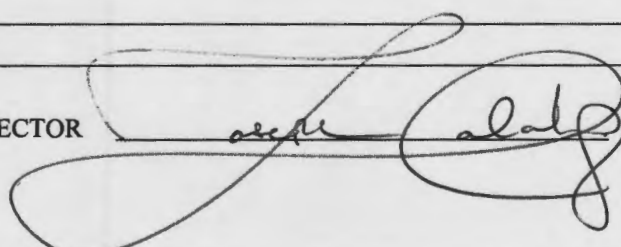


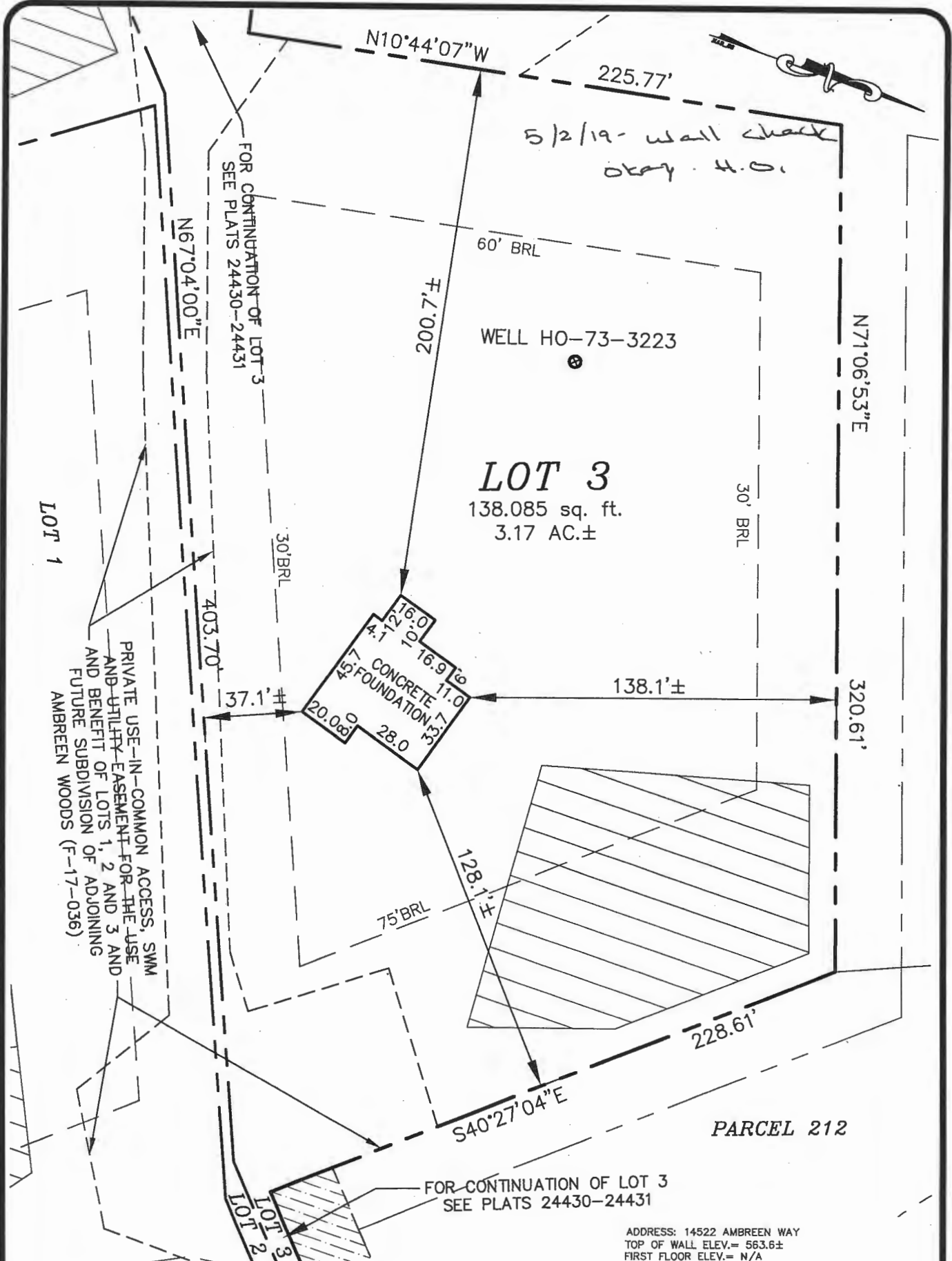
TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	6.5'
NUMBER OF TRENCHES		2
TOTAL LENGTH		93 F
ABSORPTION AREA		279 SF
DISTRIBUTION BOX LEVEL		YES-SPEED
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	~ 1'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	3/19/2019
PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

PRE-CONSTRUCTION:  
5/6/2019 TRENCHES STAKED ON CONTOUR. (H)

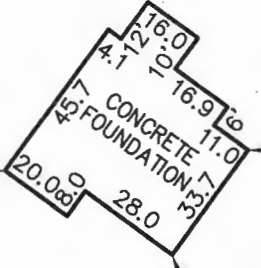
INSTALLATION: 5/6/2019 SHC INSTALLED. TANK SET AND ROTATED TO REMOVE BEND BEFORE TANK. OK TO CONTINUE (H) 5/7/2019 TRENCHES COMPLETE. D BOX SET AND LEVELLED W/ SPEED LEVELS. OK TO BACKFILL. (H)

FINAL INSPECTOR  DATE OF APPROVAL 05/07/2019



5/2/19 - wall check  
okay - H.C.

**LOT 3**  
138.085 sq. ft.  
3.17 AC.±



PRIVATE USE-IN-COMMON ACCESS, SWM  
AND UTILITY EASEMENT FOR THE USE  
AND BENEFIT OF LOTS 1, 2 AND 3 AND  
FUTURE SUBDIVISION OF ADJOINING  
AMBREEN WOODS (F-17-036)

PARCEL 212

ADDRESS: 14522 AMBREEN WAY  
TOP OF WALL ELEV.= 563.6±  
FIRST FLOOR ELEV.= N/A

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR  
UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED  
PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND,  
LICENSE NO. 574, EXPIRATION DATE: 03/21/21.

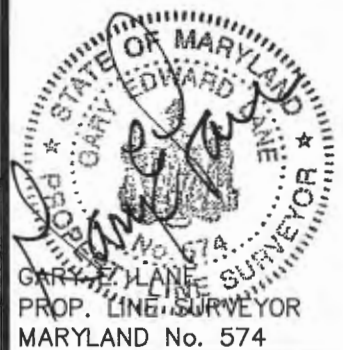
THE INFORMATION SHOWN HAS BEEN ESTABLISHED BY CURRENT  
ACCEPTABLE SURVEY PROCEDURES AND FROM AVAILABLE RECORD  
INFORMATION. THIS DRAWING IS TO BE USED FOR TITLE TRANSFER  
FINANCING, OR REFINANCING ONLY AND IS NOT TO BE USED FOR  
THE ESTABLISHMENT OF PROPERTY LINES, LOCATION OF FENCES,  
GARAGES, BUILDINGS, OR OTHER EXISTING OR FUTURE IMPROVEMENTS.

**PERCIVAL PROPERTY**  
LOTS 1 THRU 3 AND NON-BUILDABLE  
BULK-PARCEL A

PLATS 24430-24431  
ELECTION DISTRICT No. 4  
HOWARD COUNTY, MARYLAND

**MILDENBERG  
BOENDER, & ASSOC., INC.**

Engineers Planners Surveyors  
7350-B Grace Drive, Columbia, MD 21044  
(410) 997-0296 Balt. (410) 997-0298 Fax.



FOUNDATION	DATE: 04/30/19	FINAL LOCATION	DATE: N/A
DRAWN BY: MES	CHECKED BY: GEL	SCALE: 1"=50'	
PROJECT NO.: 18-010	LOCATION DRAWING		

May 14, 2018

Dana Bernard  
Howard County Dept of Environmental Health  
8930 Stanford Boulevard  
Columbia, MD 21045

**RE: Percival Property, Lot 3  
Septic Design**

Dear Ms. Bernard,

Per your request, we have increased the size of the septic tank to 2000 gallon capacity. Should you have any further questions, do not hesitate to contact this office.

Thank you for your assistance in this matter.

Very truly yours,



Maya Mildenberg  
Vice President

April 25, 2018

Dana Bernard, R.E.H.S./L.E.H.S.  
Environmental Specialist  
Well & Septic Program  
Howard County Health Department  
Bureau of Environmental Health  
8930 Stafford Road  
Columbia, Maryland 21045

**RE: Percival Property**  
**Tax Map 08, Grid 05, Parcel 237 Lot 3**  
**Submission Onsite Sewage Disposal System Plan**

Dear Ms. Bernard:

On behalf of our client, we are submitting three (3) copies of the Onsite Sewage Disposal System Plan for your review and approval.

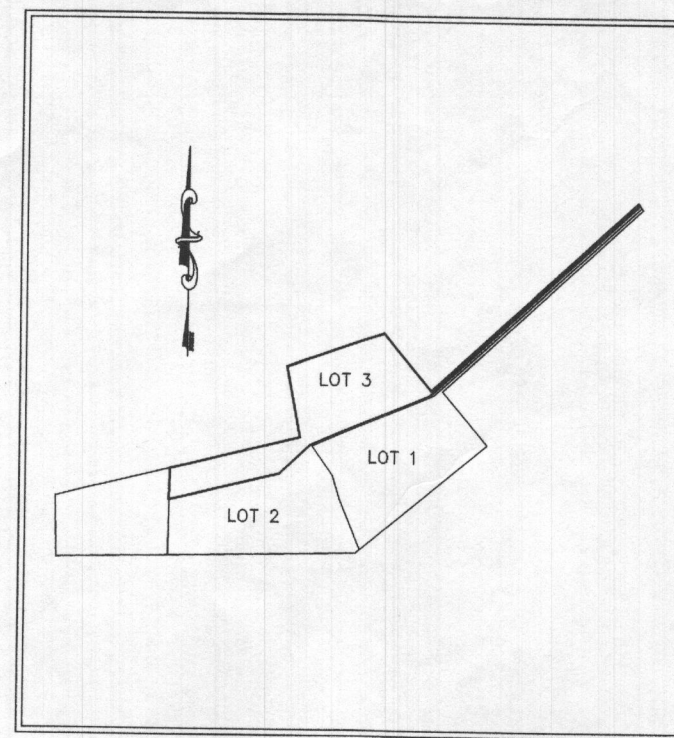
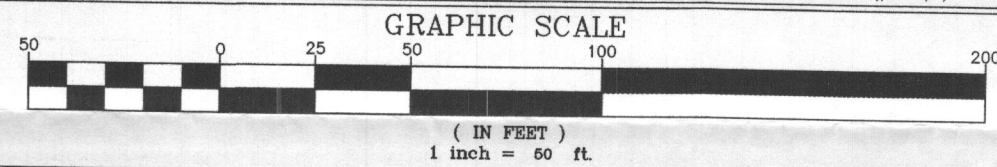
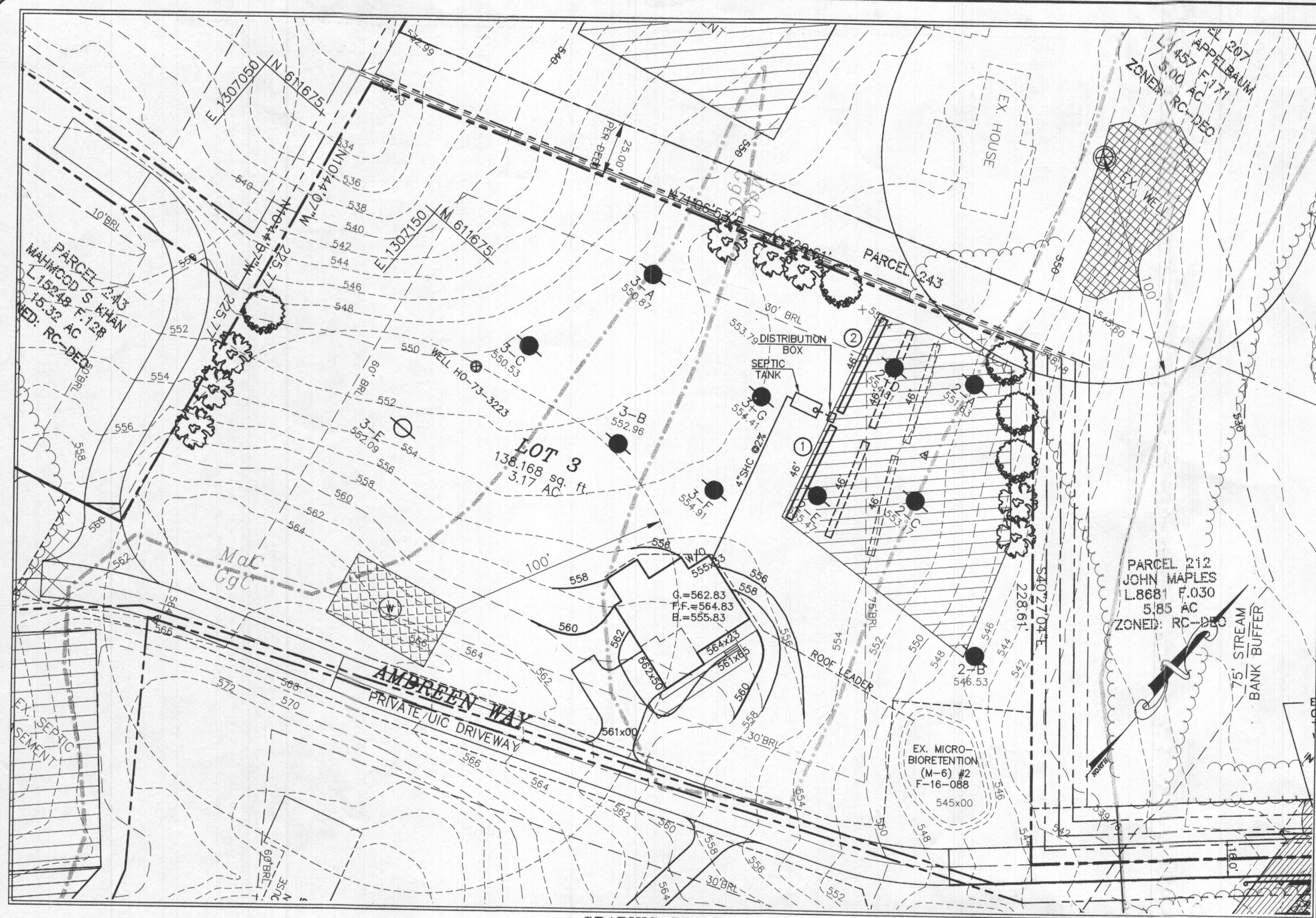
Thank you for your consideration of this submittal. If you have any questions or would like any additional information, please do not hesitate to contact this office.

Very Truly Yours,  
Mildenberg, Boender & Assoc, Inc.

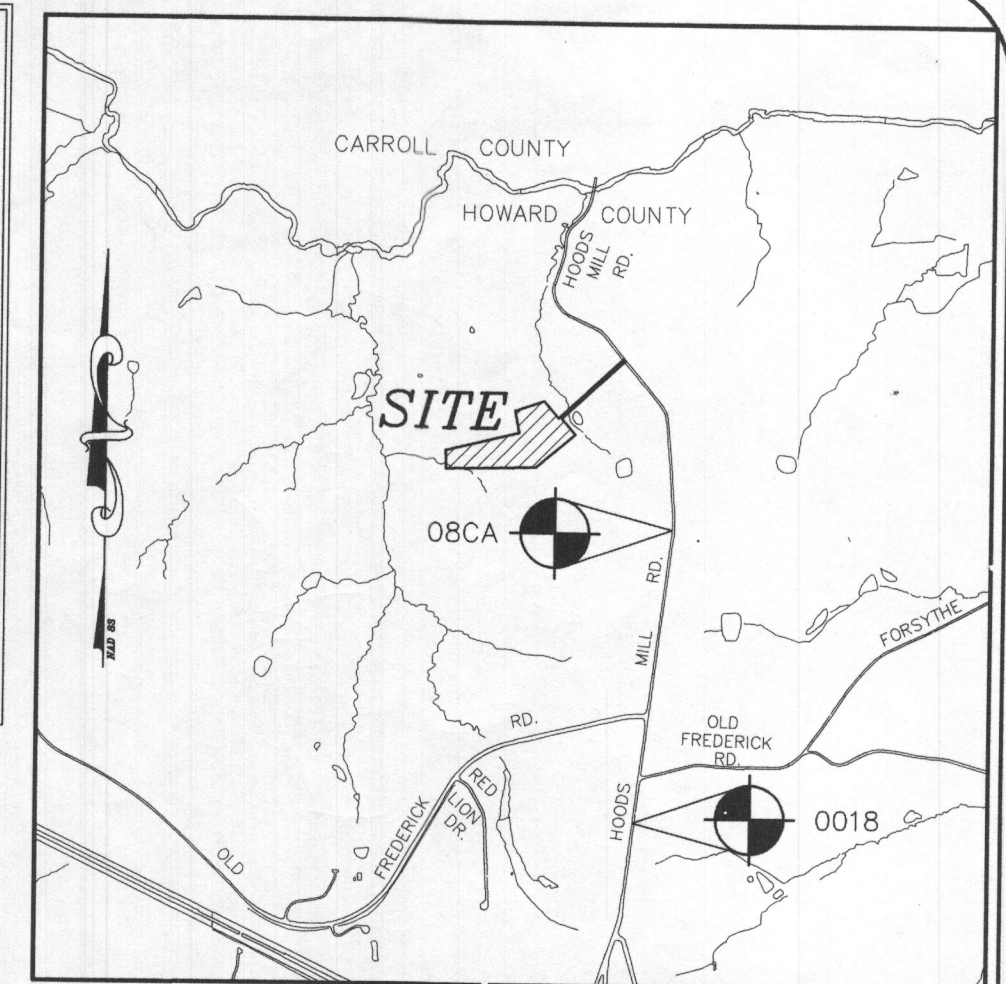
*Maya M. Mildenberg*  
Maya M. Mildenberg  
Vice President

Cc: Client  
File 14-020

*Called myca.  
Tank size incorrect  
Address 90° Bend.*



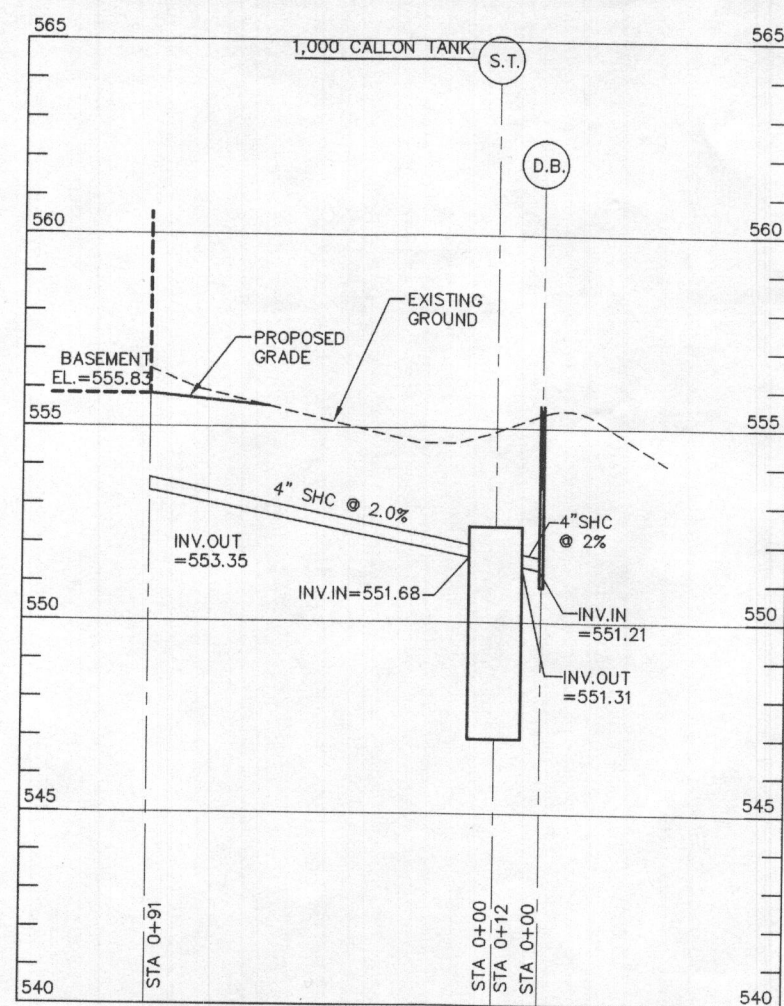
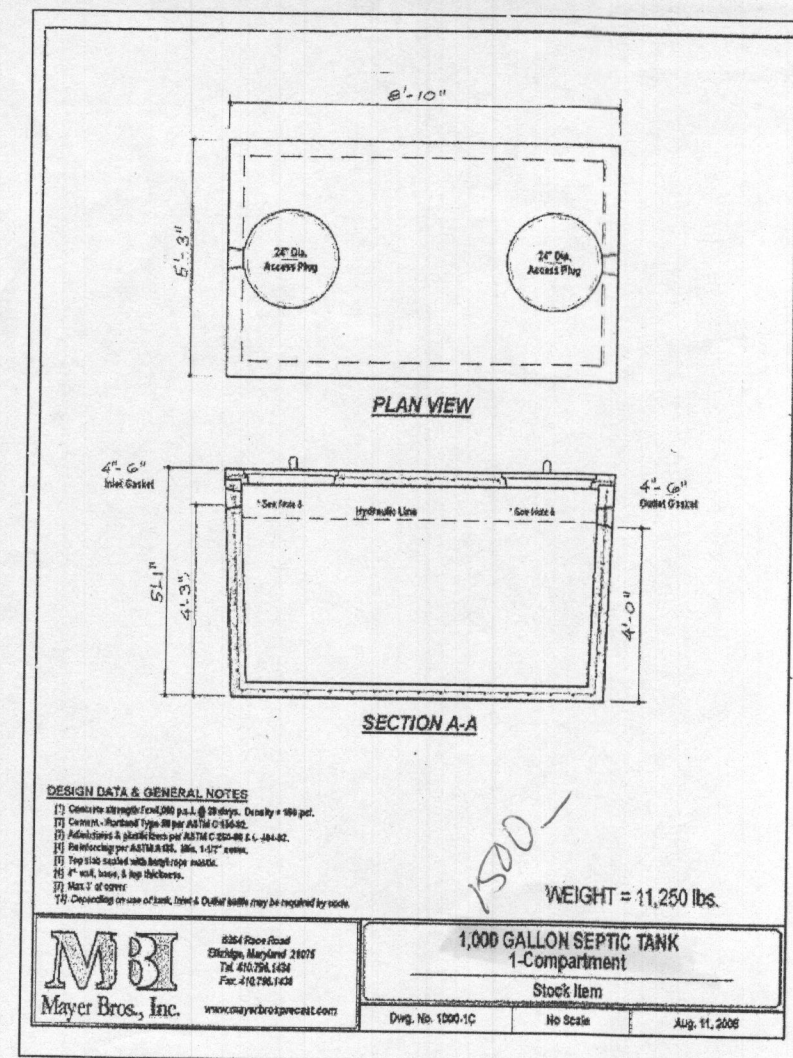
LOCATION PLAN  
SCALE: 1"=600'



VICINITY MAP  
SCALE: 1"=2000'  
ADC MAP: 10 GRID: B-4

GENERAL NOTES:

- THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN.
- PARCEL BACKGROUND:  
TAX MAP : 8  
PARCEL : 237  
LOT : 3  
DEED REFERENCE: LIBER 6157 FOLIO 647  
ELECTION DISTRICT : FOURTH  
ZONING : RR-DEO.  
AREA : 3.17 AC±  
DPZ FILES: ECP-15.59, F-116-088
- 2' TOPOGRAPHY FOR THE DEVELOPED AREAS IS BASED ON FIELD RUN SURVEY PERFORMED BY MILDENBERG, BOENDER & ASSOC., INC. ON OR ABOUT DECEMBER 2014.
- PRIVATE WELL AND SEPTIC WILL BE UTILIZED.
- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS EASEMENT 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 SEWERAGE EASEMENT. RECORDATION OF A MODIFIED EASEMENT SHALL NOT BE NECESSARY.
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- THE MAXIMUM EARTH COVER OVER THE TANK IS THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- THE WELL TAG # HO-73-3223 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
- ANY WELLS OR SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELL AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
- THIS AREA DESIGNATES WELL REPLACEMENT ZONE.



PROFILE - PRIVATE SEWER  
SCALE: 1"=50' HOR  
1"=5' VER

SEPTIC TRENCH ELEVATIONS

TRENCH	EX. GROUND ELEVATION	INVERT ELEVATION	BOTTOM OF TRENCH EL.
PRIMARY 1	555.4	551.2	548.7
PRIMARY 2	555.4	551.2	548.7
SECONDARY 1	554.5	550.5	548.0
SECONDARY 2	554.5	550.5	548.0
TERTIARY 1	554.0	550.0	547.5
TERTIARY 2	554.0	550.0	547.5

SEWER SYSTEM ELEVATIONS

DESCRIPTION	ELEVATION
BASEMENT ELEVATION	555.83
INVERT OUT OF THE HOUSE	553.35
INVERT INTO SEPTIC TANK	551.68
INVERT OUT OF SEPTIC TANK	551.31
FINISHED GRADE AT SEPTIC TANK	555.00
TOP OF THE TANK	552.46
INVERT INTO DISTRIBUTION BOX	551.21

SEPTIC TRENCH SIZING

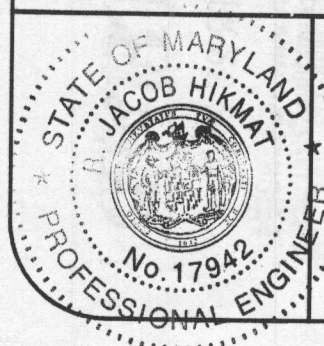
SYSTEM	APPLICATION RATE (GPD / SF)	MAXIMUM FLOW RATE (GPD)	AREA OF REQUIRED TRENCH (SF)	TRENCH WIDTH (FT)	LENGTH OF REQUIRED TRENCH (LF)	EFFECTIVE DEPTH BEGINS (FT)	TRENCH BOTTOM DEPTH (FT)	TRENCH REDUCTION FACTOR**	ADJUSTED LENGTH OF REQUIRED TRENCH (LF)	MINIMUM TRENCH SPACING (FT)	NUMBER OF TRENCHES	PROVIDED TRENCH LENGTH (FT)
PRIMARY	1.2	600	500	3	166.7	4.0	6.5	0.55	91.7	10.0'	2	46'
SECONDARY	1.2	600	500	3	166.7	4.0	6.5	0.55	91.7	10.0'	2	46'
TERTIARY	1.2	600	500	3	166.7	4.0	6.5	0.55	91.7	10.0'	2	46'

ON-SITE SEWAGE DISPOSAL SYSTEM:

RESIDENTIAL SYSTEM DESIGN:  
 4 BEDROOM HOUSE (LIVING AREA = 2,288 SQ.FT.)  
 150 GALLONS X # OF BEDROOMS = VOLUME OF WASTEWATER /DAY  
 150 X 4 = 600 GPD  
 PERC RATE = 2-5 MINUTES/INCH  
 APPLICATION RATE = 1.2 GPD/SQ.FT.  
 DESIGN FLOW + APPLICATION RATE = SQ.FT. OF TRENCH REQUIRED  
 600 + 1.2 = 500 SQ.FT.  
 SQ.FT. REQUIRED + WIDTH OF TRENCH = LENGTH OF TRENCH  
 500 + 3.0' = 166.7 FT  
 USE 30" OF GRAVEL BELOW DRAIN PIPE  
 166.7 X 0.55 = 91.7, USE TWO (2) TRENCHES (46')  
 A MINIMUM OF 10' BETWEEN TRENCHES UTILIZING SIDEWALL REDUCTION CREDIT.  
 MINIMUM TANK CAPACITY = 1,000 GALLONS  
 USE MAYER BROS. PRODUCT OR EQUIVALENT.

WELL CERTIFICATION:

THE EXISTING WELL, TAG NO. HO-73-3223, HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN



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. 17942, EXP DATE 09/03/2018.

R. JACOB HIKMAT, P.E.

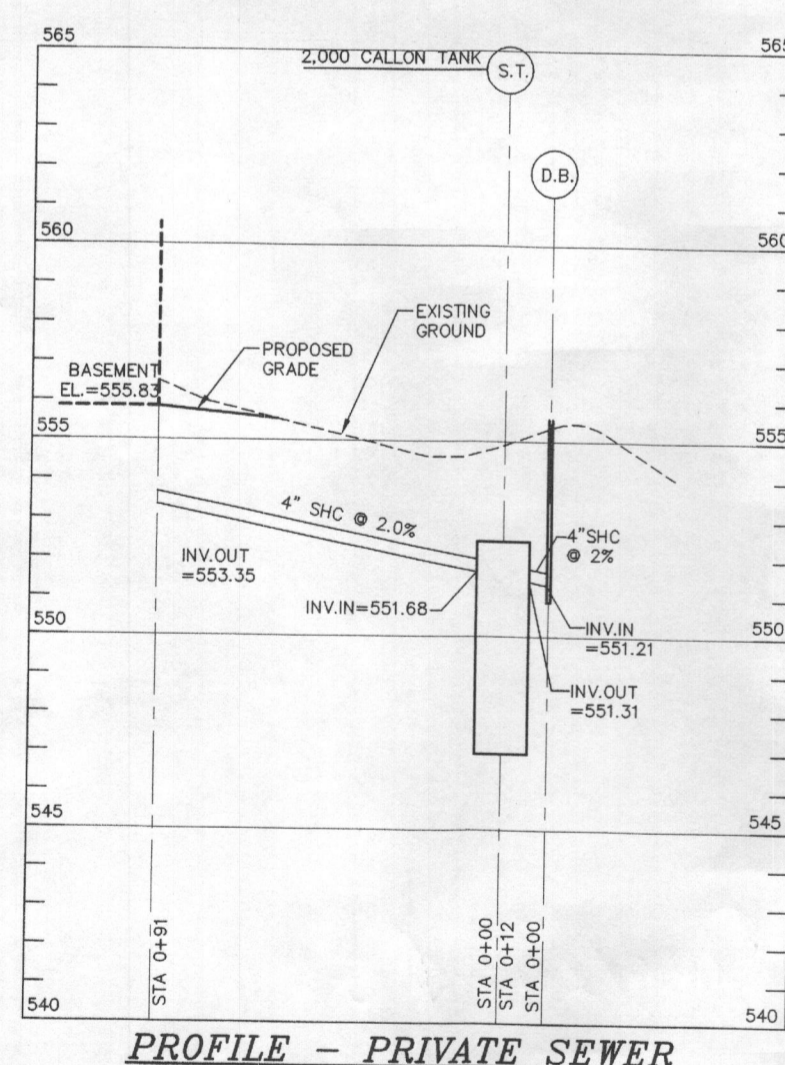
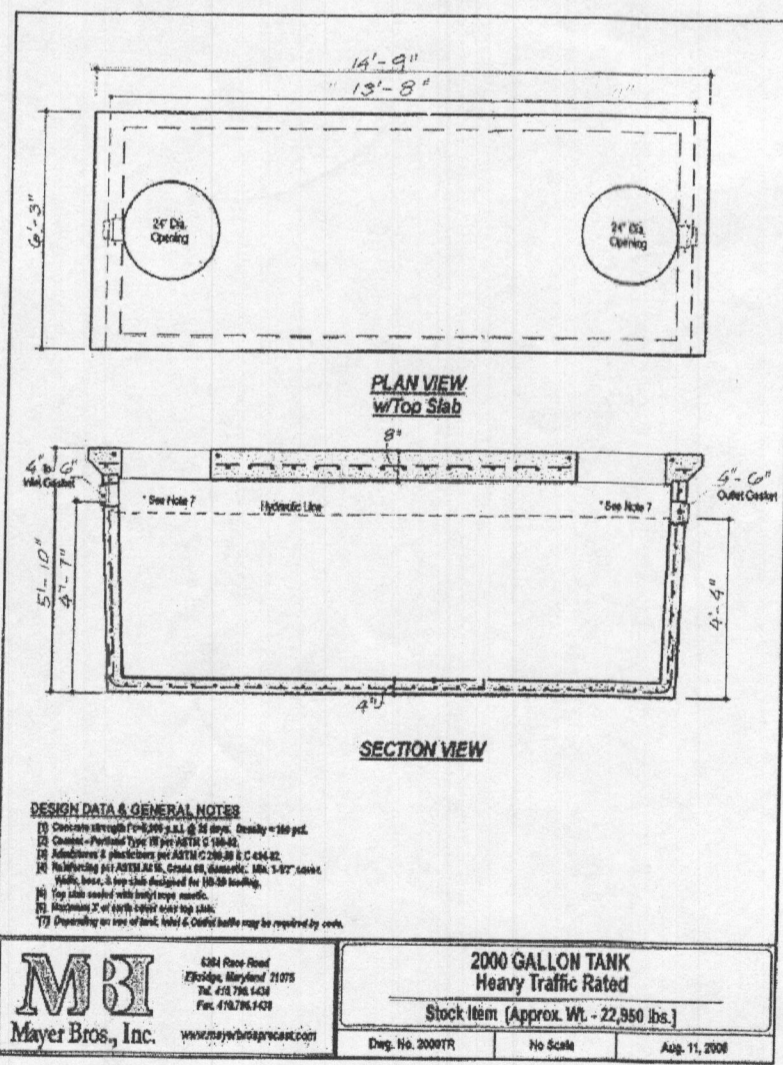
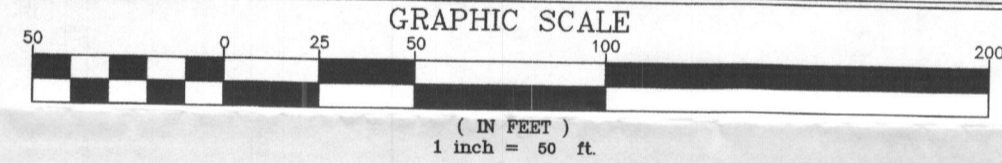
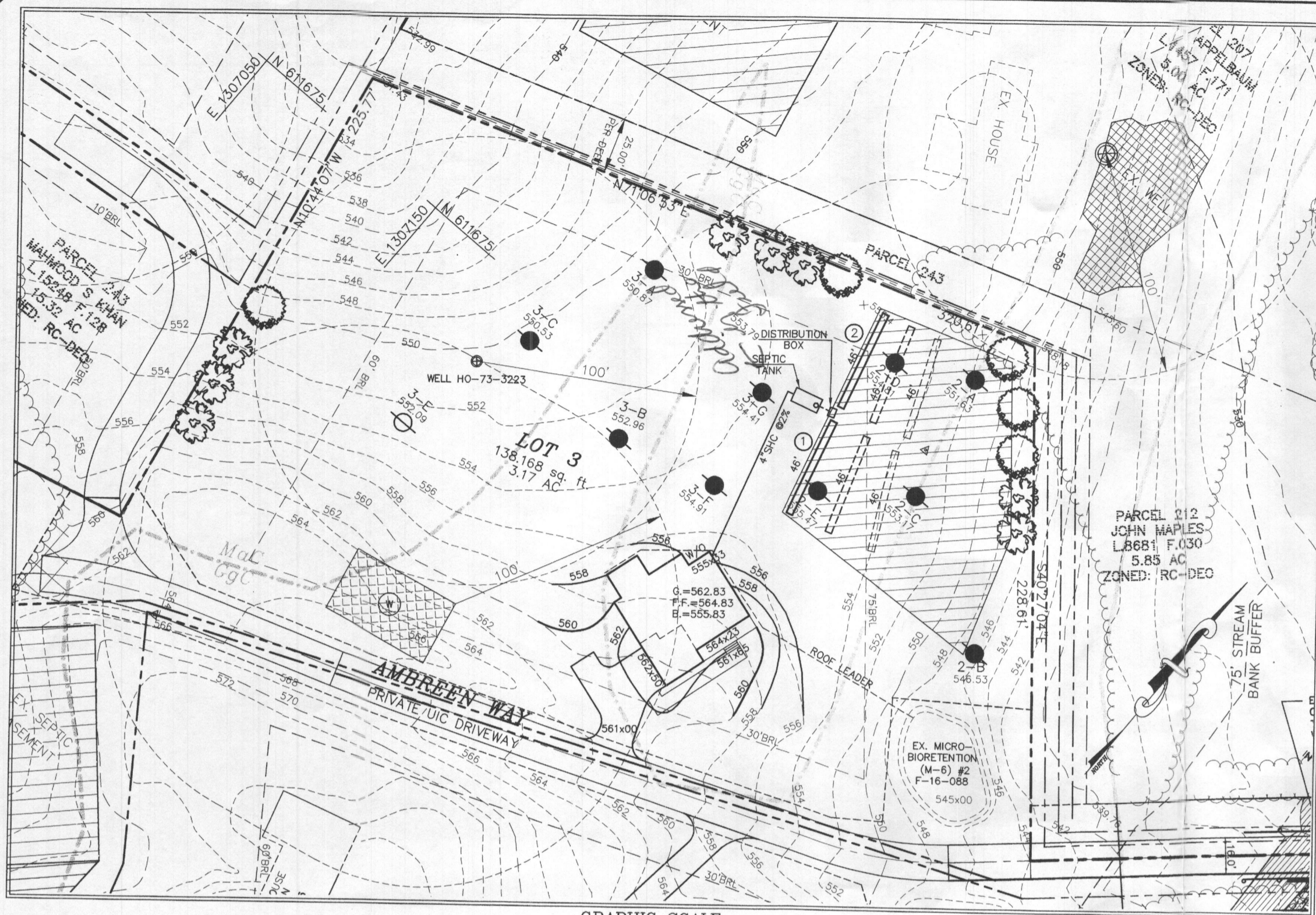
DATE: 4/25/17

date	APR 2018	engineering	MMM	approval	RJH
project	14-020	illustration	MMM	scale	1"=50'
description		revisions			

date	
description	
revisions	

PERCIVAL PROPERTY LOT 3  
 14522 AMBREEN WAY  
 TAX MAP 08, GRID 05, PARCEL 237, LOT 3  
 HOWARD COUNTY  
 FOURTH ELECTION DISTRICT  
 ONSITE SEWAGE DISPOSAL SYSTEM PLAN

MILDENBERG, BOENDER & ASSOC., INC.  
 Engineers Planners Surveyors  
 7350-B Grace Drive, Columbia, Maryland 21044  
 (410) 997-0296 Fax (410) 997-0298 Fax



**SEPTIC TRENCH ELEVATIONS**

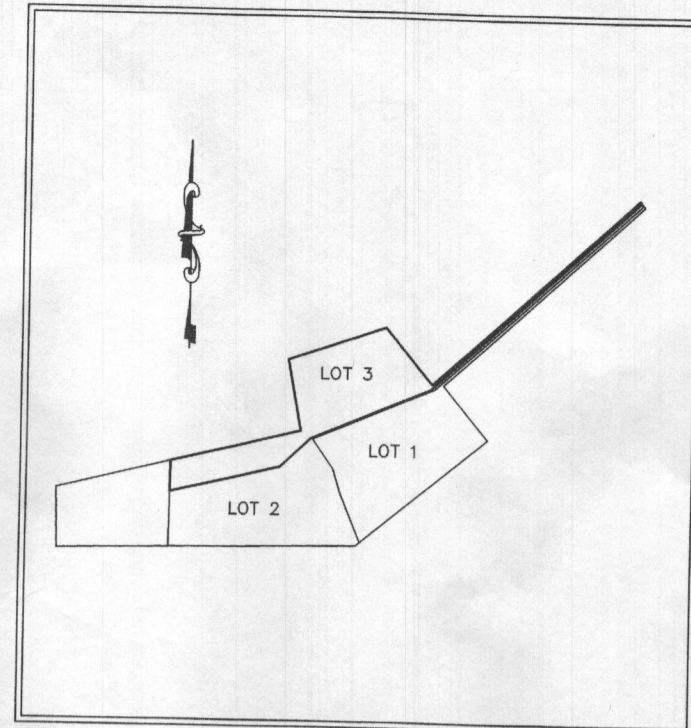
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**SEWER SYSTEM ELEVATIONS**

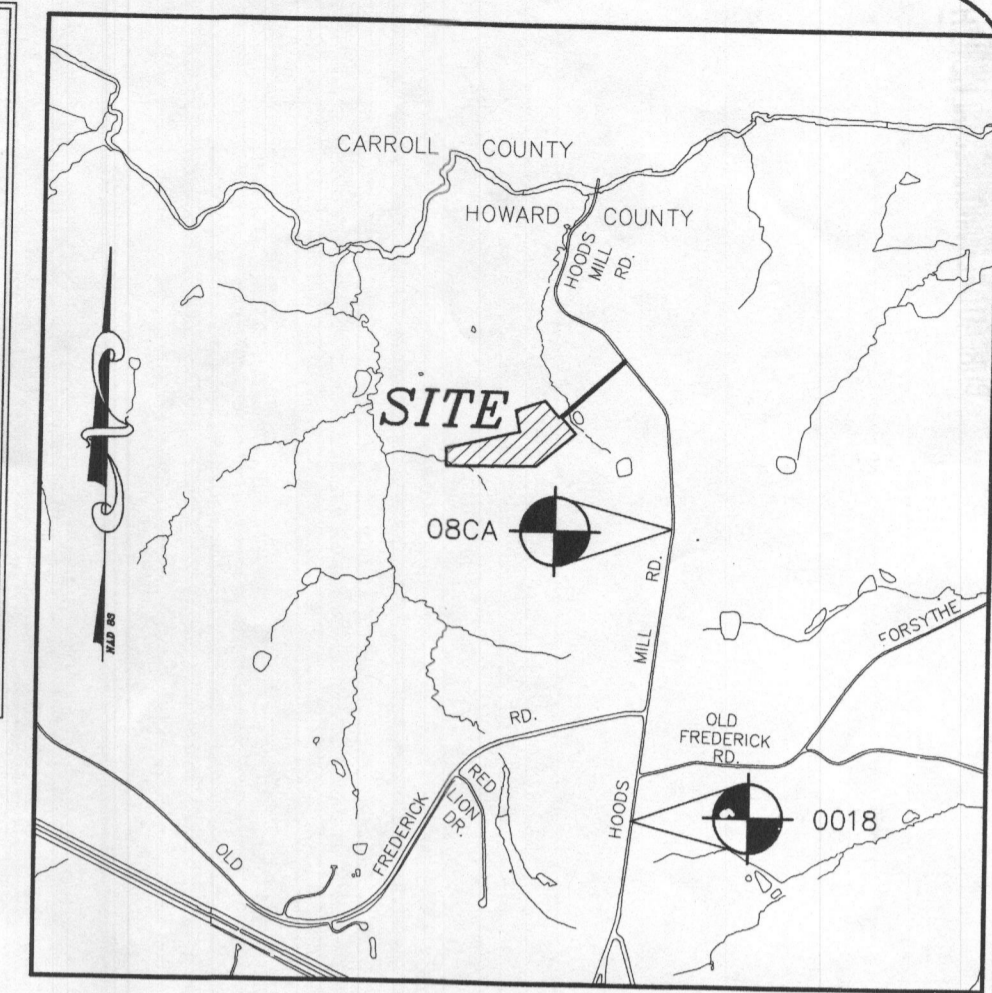
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**LOCATION PLAN**  
SCALE: 1"=600'



**VICINITY MAP**  
SCALE: 1"=2000'  
ADC MAP: 10 GRID: B-4

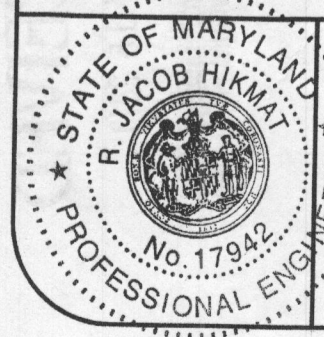
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**WELL CERTIFICATION:**  
THE EXISTING WELL, TAG NO. HO-73-3223, HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN



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. 17942, EXP DATE 09/03/2018.

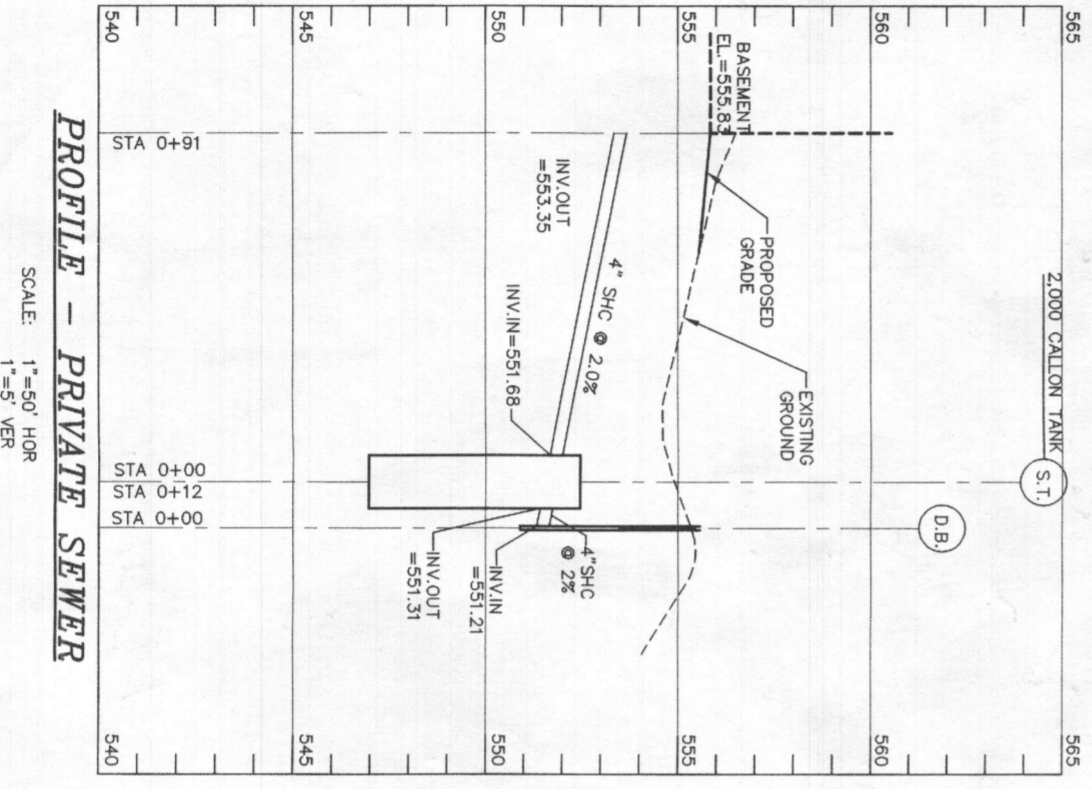
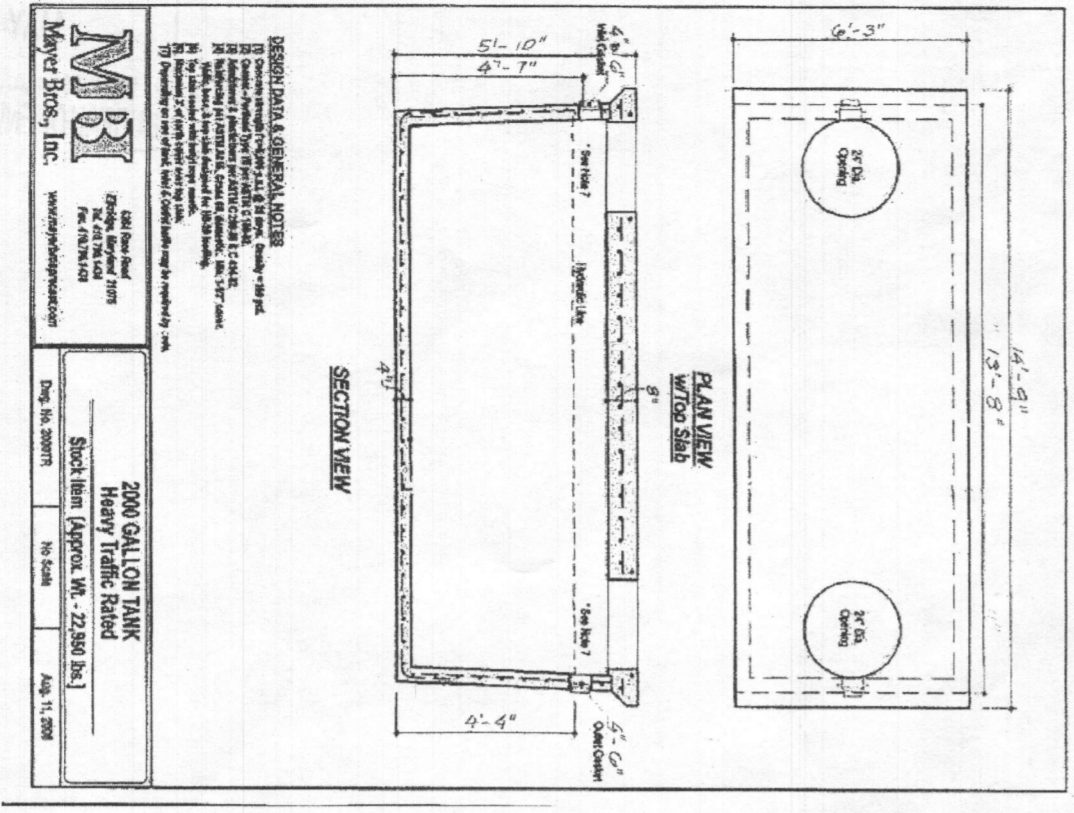
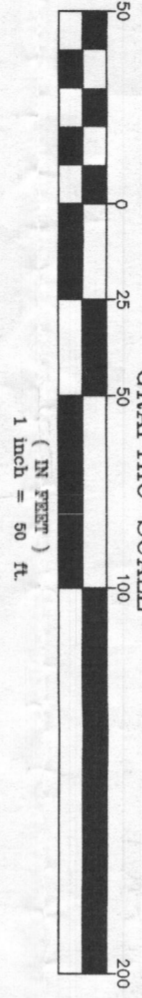
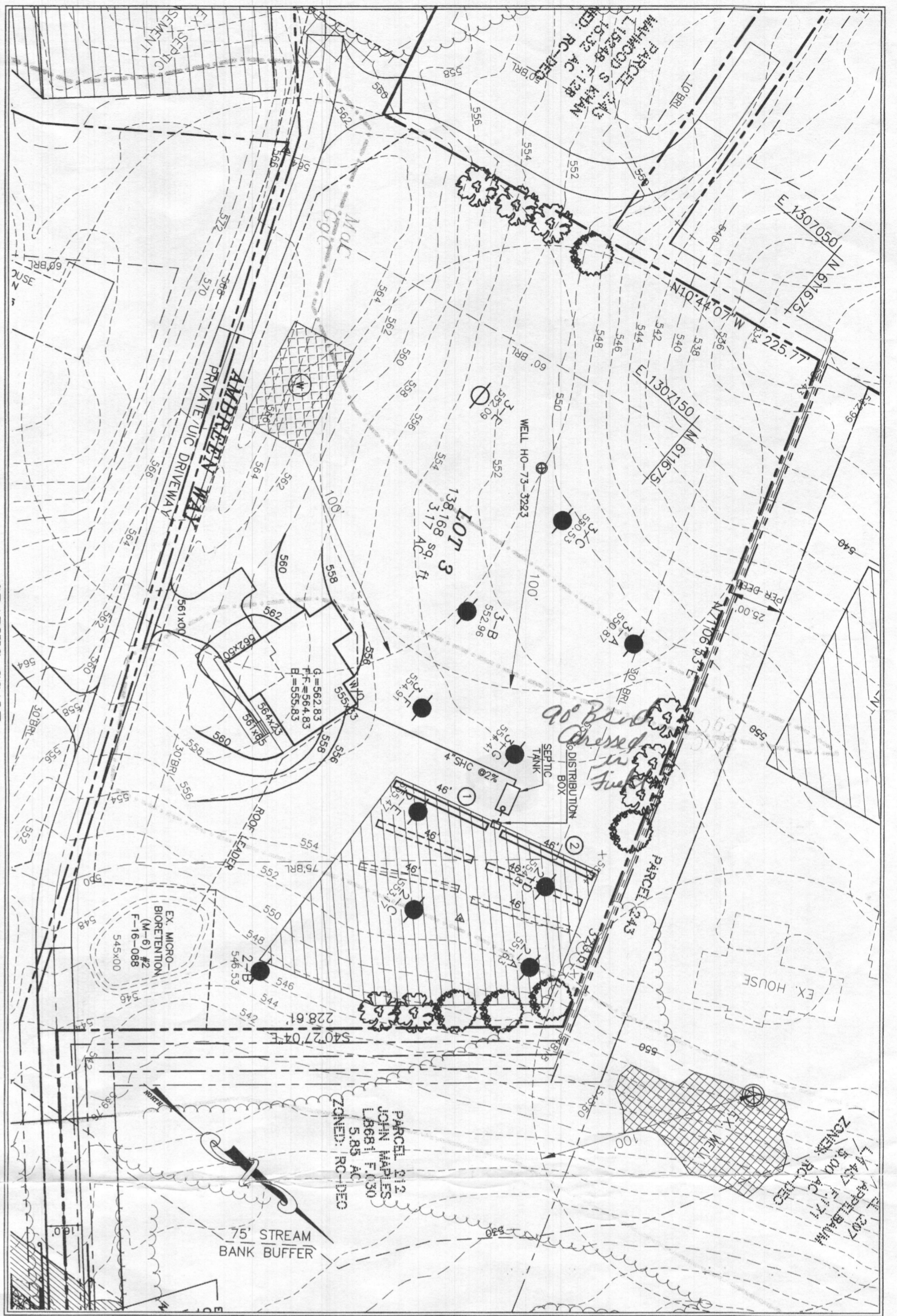
*R. Jacob Hikmat*  
R. JACOB HIKMAT, P.E.  
DATE: 05/14/18

Project	14-020	date	MAY 2018
Illustration	MMM	engineering	MMM
scale	1"=50'	approval	RJH

no.	description	date

**PERCIVAL PROPERTY LOT 3**  
14522 AMBREEN WAY  
TAX MAP 08, GRID 05, PARCEL 237, LOT 3  
FOURTH ELECTION DISTRICT  
HOWARD COUNTY  
**ONSITE SEWAGE DISPOSAL SYSTEM PLAN**

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
7350-B Grace Drive, Columbia, Maryland 21044  
(410) 987-0286 Tel. (410) 987-0286 Fax.



**SEPTIC TRENCH ELEVATIONS**

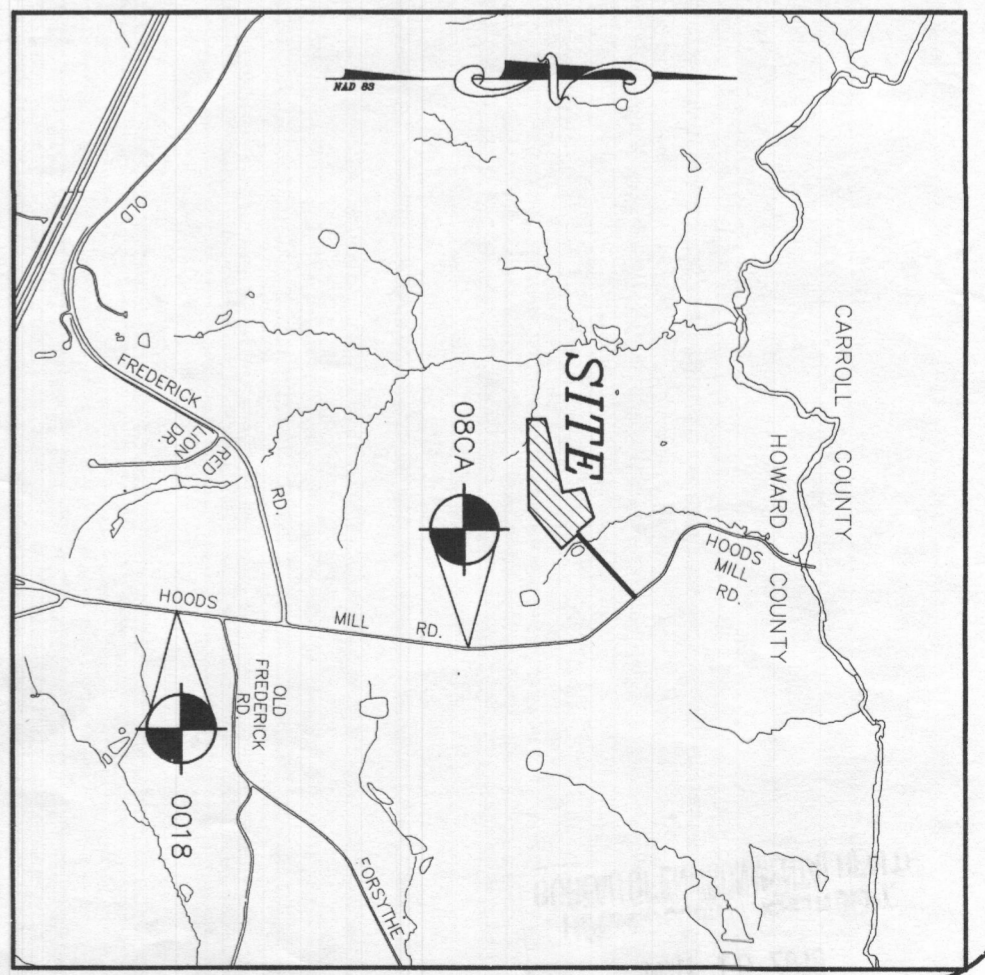
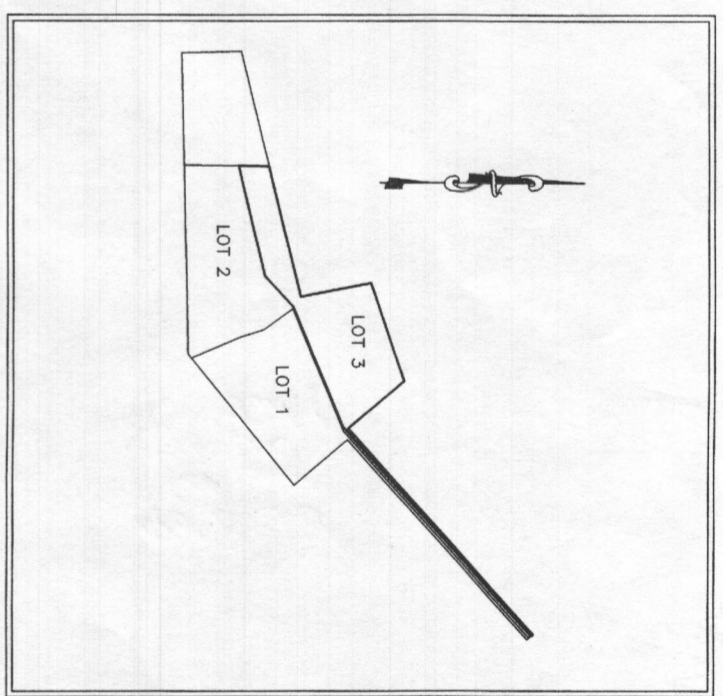
TRENCH	EX. GROUND ELEVATION	INVERT ELEVATION	BOTTOM OF TRENCH EL.
PRIMARY 1	555.4	551.2	548.7
PRIMARY 2	555.4	551.2	548.7
SECONDARY 1	554.5	550.5	548.0
SECONDARY 2	554.5	550.5	548.0
TERTIARY 1	554.0	550.0	547.5
TERTIARY 2	554.0	550.0	547.5

**SEWER SYSTEM ELEVATIONS**

DESCRIPTION	ELEVATION
BASEMENT ELEVATION	555.83
INVERT OUT OF THE HOUSE	553.35
INVERT INTO SEPTIC TANK	551.68
INVERT OUT OF SEPTIC TANK	551.31
FINISHED GRADE AT SEPTIC TANK	555.00
TOP OF THE TANK	552.46
INVERT INTO DISTRIBUTION BOX	551.21

**SEPTIC TRENCH SIZING**

SYSTEM	APPLICATION RATE (GPD / SF)	MAXIMUM FLOW RATE (GPD)	AREA OF TRENCH REQUIRED (SF)	TRENCH WIDTH (FT)	EFFECTIVE DEPTH (FT)	TRENCH DEPTH (FT)	TRENCH REDUCTION FACTOR**	ADJUSTED LENGTH OF TRENCH REQUIRED (LF)	MINIMUM TRENCH SPACING (FT)	NUMBER OF TRENCHES	PROVIDED TRENCH LENGTH (FT)
PRIMARY	1.2	600	500	3	4.0	6.5	0.55	91.7	10.0'	2	46'
SECONDARY	1.2	600	500	3	4.0	6.5	0.55	91.7	10.0'	2	46'
TERTIARY	1.2	600	500	3	4.0	6.5	0.55	91.7	10.0'	2	46'



**GENERAL NOTES:**

1. THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN.
2. PARCEL BACKGROUND: TAX MAP: 8 PARCEL: 237 LOT: 3 DEED REFERENCE: LIBER 6157 FOLIO 647 ELECTION DISTRICT: FOURTH ZONING: RR-DEO AREA: 3.17 AC± DPZ FILES: EOP-1559, F-116-088
3. 2. TOPOGRAPHY FOR THE DEVELOPED AREAS IS BASED ON FIELD RUN SURVEY PERFORMED BY MILDENBERG, BOENDER & ASSOC., INC. ON OR ABOUT DECEMBER 2014.
4. PRIVATE WELL AND SEPTIC WILL BE UTILIZED.
5. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT MODIFIED EASEMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED EASEMENT SHALL NOT BE NECESSARY.
6. ANY CHANGES TO THE LOCATION OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED PLAN MAY BE REQUIRED.
7. THE MAXIMUM EARTH COVER OVER THE TANK IS THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
8. THE WELL TAG # HO-73-3223 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
9. ANY WELLS OR SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELL AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
10. THIS AREA DESIGNATES WELL REPLACEMENT ZONE.

**ON-SITE SEWAGE DISPOSAL SYSTEM:**

RESIDENTIAL SYSTEM DESIGN:  
4 BEDROOM HOUSE (LIVING AREA = 2,288 SQ.FT.)  
150 GALLONS X # OF BEDROOMS = VOLUME OF WASTEWATER / DAY  
PERC RATE = 2-5 MINUTES/INCH  
APPLICATION RATE = 1.2 GPD/SQ.FT.  
DESIGN FLOW + APPLICATION RATE = SQ.FT. OF TRENCH REQUIRED  
600 ± 1.2 = 500 SQ.FT.  
SQ.FT. REQUIRED ± WIDTH OF TRENCH = LENGTH OF TRENCH  
500 ± 3.0' = 166.7 FT  
USE 30" OF GRAVEL BELOW DRAIN PIPE  
166.7 X 0.55 = 91.7'. USE TWO (2) TRENCHES (46')  
A MINIMUM OF 10' BETWEEN TRENCHES UTILIZING SIDEWALL REDUCTION CREDIT.  
MINIMUM TANK CAPACITY = 2,000 GALLONS  
USE WAYER BROS. PRODUCT OR EQUIVALENT.

**WELL CERTIFICATION:**

THE EXISTING WELL, TAG NO. HO-73-3223, HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN

Approved Septic System Plan  
Howard County Health Department  
Signature: [Signature]  
Date: 5-30-18



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FOURTH ELECTION DISTRICT HOWARD COUNTY  
**ONSITE SEWAGE DISPOSAL SYSTEM PLAN**

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project	date
14-020	MAY 2018
illustration	engineering
MMM	MMM
scale	approval
1" = 60'	RJH