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

MEMORANDUM

TO: Rob Vogel
Vogel Engineering

FROM: Jeff Williams
Program Supervisor, Well & Septic Program

RE: Jack's Landing Lot 4 OSDS plan and perc certification plan

DATE: November 20, 2018

I have reviewed the above referenced OSDS design plan and perc certification plan submitted on 11/14/18 and have the following comments

1. The added disposal area on the perc cert is less than 25 feet from steep slopes in the bottom corner near Highland Road.
2. The perc cert needs a note referencing the required whole house R/O system for lot 4
3. The revised plans were to accommodate a 5 bedroom house. The builder has revised the floor plans to be a 4 bedroom house at this time. Verify with the builder and the owner whether they want to pursue expanding the system to accommodate a future bedroom addition.
4. The OSDS plan indicates a 240 gallon dose based on the system volume, but the dose for 1/6 design flow would be 250 gallons. This comment may be irrelevant if you revert back to a 4 bedroom design.
5. Lateral 1 has a flow per linear foot that is more than 10% different from the other laterals. It appears that bumping up to 11 holes would bring it closer to the others. This comment may be irrelevant if you revert back to a 4 bedroom design.
6. All the trenches are showing an incorrect lateral length. The lateral length shall be ½ hole spacing shorter than the trench, not 1 hole spacing shorter as shown.
7. Based on the curvature of the laterals and trenches, fittings should be shown on the lateral layout to make the bends that are shown.

517922

NOT TO SCALE

COUNTY #

SOIL PROFILE

0' (9) / 14'

Wk
Rd brn
loam

Stronger
Loamy
Sand
massive
structure
Trace
some wk
Platy struct
Bottom

4 1/2'
12'
14'

(13)

Brown
loam

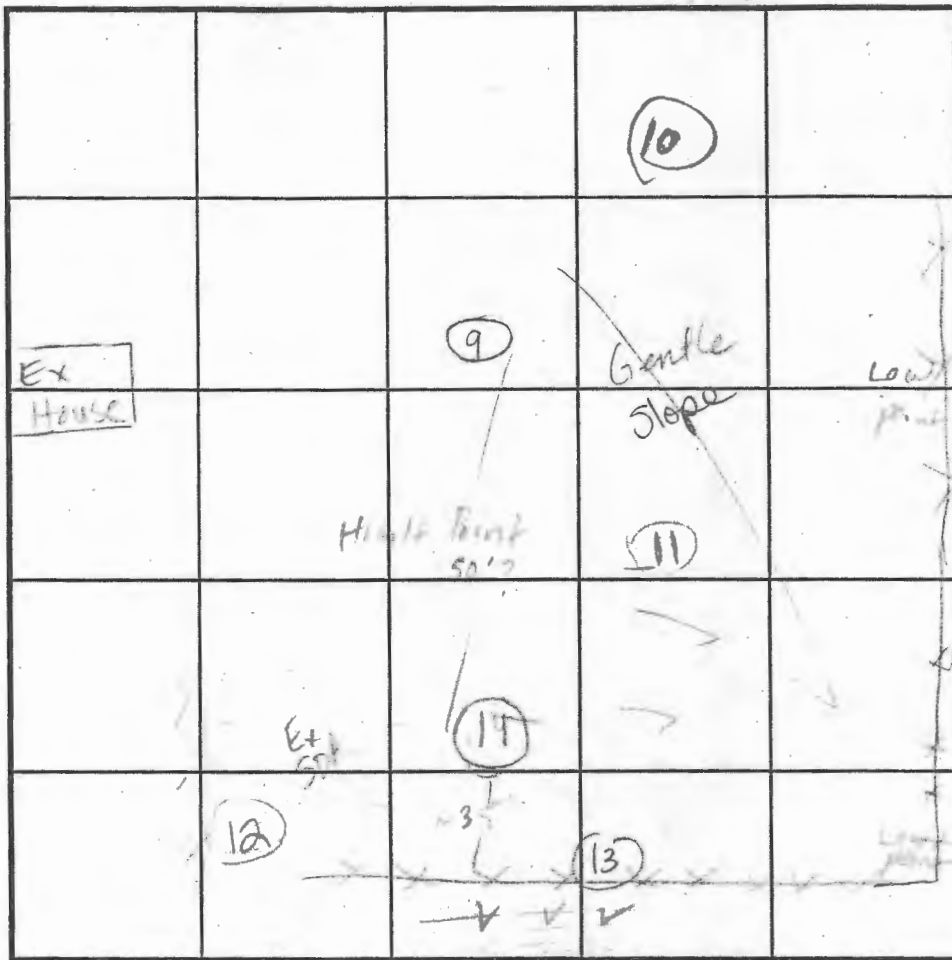
Trace
Rx
pods
white
coarse
parent
material

4" brown top soil

1' beige brown silt lm

1' red-brown sandy clay m

4'6" yellow brown sandy lm pockets of decayed wood spar 0-5%



SOIL PROFILE

0' 12'

top soil
brown-red
silt m

1' orange-
yellow/red
sandy clay
lm

3' orange-
yellow/red
brn silt
lm

5' yellow
red
sandy
lm

0-5%
ROCK
FRAGS

15'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

HIGHLAND ROAD

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
1-14-03	(10)	5' / 14'	2:31 ³⁰	2:33 ³³	2:35 ³³	2:36 ³⁷	27 min	OK
	(14)	6 1/2' / 14'	2:39 ⁰¹	2:41 ¹⁸	2:41 ¹³	2:44 ¹⁶	3	OK
	(13)	Visual						OK
1/16/03	(12)	15' V	(VISUAL)	OK	SEE SOIL	PROFILE	NA	OK
	(11)	6' / 15'	11:30 pm	11:35 pm	11:35 pm	11:53 pm	18 min	OK
NEED TO locate and verify condition of Ex system								

REMARKS THIS PERC IS TO ESTABLISH 100% for existing house

TYPE OF SOIL Chester & Glenly

TESTED BY [Signature] ALSO PRESENT [Signature]

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 2-7 min TRENCH WIDTH 3'

INLET DEPTH 4 1/2' MAXIMUM BOTTOM DEPTH 6 1/2' SQ. FT./BEDROOM 110

15'

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

MEMORANDUM

TO: Jayesh Pancholi
Department of Planning and Zoning

FROM: Jeff Williams
Program Supervisor, Well & Septic Program

RE: Redline F-08-101, Jack's Landing

DATE: August 3, 2018

I have reviewed the proposed redline revisions to F-08-101, Jack's Landing and have the following comments

1. The proposed house location and well locations match the most recently signed perc certification plan for the property.
2. Page 7 shows a proposed raingarden located 50 feet from the potable well. That facility must be labeled on the plan as lined and the cross section diagram of the device on the same page must show details of a plastic lining at the bottom of the device. The plan must show the location of the proposed outfall and that must meet all applicable setbacks to wells and sewage disposal system components.

TRANSMITTAL OF PLANS FOR REVIEW
DEPARTMENT OF PLANNING & ZONING
DEVELOPMENT ENGINEERING DIVISION

Rev. Eng. JP

7/19/18

TO:

- DAN WARD, LITTLE PATUXENT WATER RECLAMATION PLANT
- MARK KREIS, BUREAU OF ENVIRONMENTAL SERVICES (SDP - TOWNHOUSE & APT.)
- REAL ESTATE SERVICES DIVISION (PLAT & ROAD CONST. DRWGS.)
- TRAFFIC ENG DIV.(SKETCH, PREL., FINAL RDS & PLAT & COM. SDP)
- TRANSPORTATION AND SPECIAL PROJECTS
- BUREAU OF HIGHWAYS (ROAD CONST. DRWGS. & RED-LINE)
- DIVISION OF LAND DEVELOPMENT
(DESIGN WAIVERS - SDP & ROAD CONST. DRWGS. - RED-LINE)
- INSPECTIONS, LICENSES & PERMITS (COMMERCIAL SDP - RED-LINE)
- SOIL CONSERVATION SERVICES (SDP & ROAD CONST. DRWGS. - RED-LINE)
- RONALD G. LEPSON, CHIEF, BUREAU OF ENGINEERING (DESIGN WAIVERS)
- PARRIS ZIRKENBACH, TRAFFIC ENG. DIV.(PREL., FINAL RDS & PLAT& COMMERCIAL SDP - STREET LIGHT LAYOUT)
- STATE HIGHWAY ADMINISTRATION
- FIRE AND RESCUE

Health Dept.

SUBJECT: SUBDIVISION PLANS FOR REVIEW

COMMENTS DUE: 7/30/18

P & Z FILE NUMBER: F-08-101

NAME OF PLAN: Jack's Landing - Lot 4
ENCLOSURE:

- | | |
|--|---|
| <input type="checkbox"/> SKETCH PLAN | <input type="checkbox"/> SITE DEVELOPMENT PLAN |
| <input type="checkbox"/> SKETCH PRELIMINARY PLAN | <input type="checkbox"/> INDUSTRIAL WASTE SURVEY |
| <input type="checkbox"/> PRELIMINARY PLAN | <input checked="" type="checkbox"/> RED-LINE ROAD CONST |
| <input type="checkbox"/> FINAL PLAT | <input type="checkbox"/> RED-LINE SDP |
| <input type="checkbox"/> FINAL PLAN | <input type="checkbox"/> TRAFFIC STUDY/APFO |
| <input type="checkbox"/> DESIGN WAIVER | <input type="checkbox"/> WAIVER PETITION |

SUBMISSION RECEIVED FROM: DP&Z / _____ :

Vogel

Please return the redline drawing back to DED.

RETURN COMMENTS TO DEVELOPMENT ENGINEERING DIVISION EITHER ON THIS FORM OR VIA E-MAIL TO REVIEW ENGINEER

Comments:

SIGNED BY: _____ DIVISION: _____ DATE: _____

VOGEL ENGINEERING + TIMMONS GROUP

8407 Main Street Ellicott City, MD 21043
P 410.461.7666 F 410.461.8961 www.timmons.com

July 16, 2018

Mr. Chad Edmondson, P.E., Chief
Development Engineering Division (DED)
Howard County Department of
Planning and Zoning
3430 Court House Drive
Ellicott City, Maryland 21043

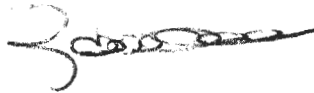
Re: Jack's Landing – Lot 4
(F-08-101)

Dear Mr. Edmondson,

We are resubmitting the attached redline for lot 4 at Jack's Landing. The purpose of this redline is to relocate the proposed house and the proposed well locations on lot 4.

Should you have any questions regarding this matter, please do not hesitate to contact this office.

Sincerely,
VOGEL ENGINEERING + TIMMONS GROUP



Robert H. Vogel, P.E.

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

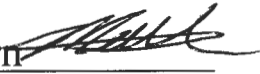
LETTER OF TRANSMITTAL

Date: June 18, 2018
To: Jeff Williams
Attn: Howard County Health Department
cc:
Subject: Jack's Landing – Lot 4
Project Number: 13-31.00

ATTACHED:

# Copies	Description
3	Percolation Certification Plan

Remarks:

Matthew Ahearn 
Transmitted by:

Received by:



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: November 15, 2018
To: Howard County Health Department
Attn: Mr. Jeff Williams
cc:
Subject: Jack's Landing – Lot 4
Project Number: 13-31.00

ATTACHED:

# Copies	Description
2	Onsite Sewage Disposal System Design Plan
2	Percolation Certification Revision Plan

Remarks:

Thank you

Matthew Ahearn ~~XXXXXXXXXX~~

Transmitted by:

Received by:

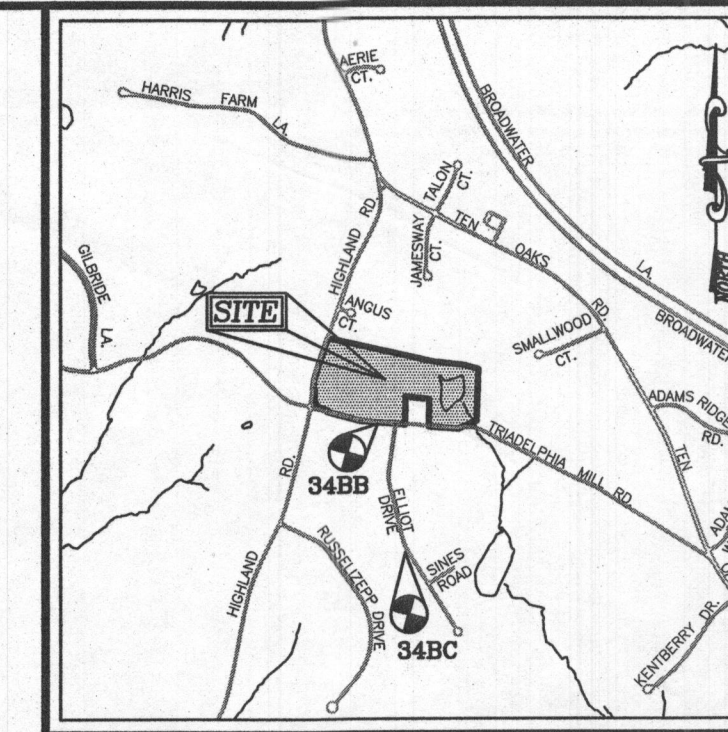
GENERAL NOTES

1. THIS SUBJECT PROPERTY IS ZONED RR-DEO.
2. PROPERTY OUTLINE SHOWN HEREON IS BASED ON A FIELD RUN BOUNDARY SURVEY PERFORMED BY ROBERT H. VOGEL ENGINEERING, INC., DATED NOVEMBER, 2013.
3. DEED REFERENCES: LIBER 18178 FOLIO 281
4. THE EXISTING TOPOGRAPHY IS TAKEN FROM CURRENT HOWARD COUNTY GIS DATA AND FIELD VERIFIED TO BE ACCURATE.
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 PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
8. ADJUSTMENT TO THE SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
9. THE LOT SHOWN HEREON COMPLES 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. THIS LOT COMPLES WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
12. THE PURPOSE OF THIS PERCOLATION CERTIFICATION REVISION PLAN IS TO RELOCATE PROPOSED ALTERNATE WELL NUMBER 2 ON LOT 4.

ERIC A. METZMAN
HELEN L. METZMAN
TM: 28 PARCEL: 308
FENTON ESTATES
PLAT: 4555
L. 1815 / F. 377
LOT: 3
4.67 AC.
USE: RESIDENTIAL
ZONED: RR-DEO

LUIV E. DRISHTI BILL
NANCY L. BRIGHTBILL
TM: 34 PARCEL: 292
DUNFARMIN ESTATES
PLAT: 7830
L. 3007 / F. 269
LOT: 6
3.14 AC.
USE: RESIDENTIAL
ZONED: RR-DEO

ERIC S. CLAWSON
KIMBERLY P. CLAWSON
TM: 34 PARCEL: 385
FENTON ESTATES
PLAT: 4435
L. 2779 / F. 192
LOT: 1
3.05 AC.
USE: RESIDENTIAL
ZONED: RR-DEO



VICINITY MAP
SCALE: 1"=2,000'
ADC MAP COORDINATE: PAGE: 24 GRID: E8

LEGEND:

- PROPERTY LINE
- - - EXISTING RIGHT-OF-WAY LINE
- - - PROPOSED RIGHT-OF-WAY LINE
- - - ADJACENT PROPERTY LINE
- - - EXISTING CURB AND GUTTER
- - - EXISTING EDGE OF PAVING
- - - EXISTING TREELINE
- - - EXISTING WOOD FENCE
- - - EXISTING METAL FENCE
- - - EXISTING UTILITY POLE
- - - EXISTING 10' CONTOUR
- - - EXISTING 2' CONTOUR
- - - SOILS
- - - EXISTING USE-IN-COMMON ACCESS EASEMENT
- W (circle) EXISTING WELL LOCATION
- W (circle) APPROVED WELL LOCATION (FIELD LOCATED)
- W (circle) PROPOSED ALTERNATE WELL LOCATION
- WC (circle) EXISTING DRY WELL CASING (TO BE ABANDONED)
- EXISTING PRIVATE SDA
- APPROVED PRIVATE SDA
- APPROVED WELL BOX
- - - PROPOSED TREELINE
- - - PROPOSED 10' CONTOUR
- - - PROPOSED 2' CONTOUR
- ST-1 (circle) PROPOSED RAIN GARDEN (M-7)
- ST-1 (circle) EXISTING SPECIMEN TREE

THIS AREA DESIGNATES A PRIVATE SEWERAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE 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 SEWERAGE AREA. RECONSTRUCTION OF A MODIFIED SEWERAGE AREA SHALL NOT BE NECESSARY.

OWNER
MANSI G. VIAS
AMRISH J. VIAS
3586 LAUREL VIEW CT.
LAUREL, MD 20724
(301) 261-0277

BUILDER
CARUSO HOMES
2120 BALDWIN AVE., #200
CROFTON, MD 21114
(301) 261-0277

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR ERODIBLE
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	.20 NO
McC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	C	.24 NO

NOTE:
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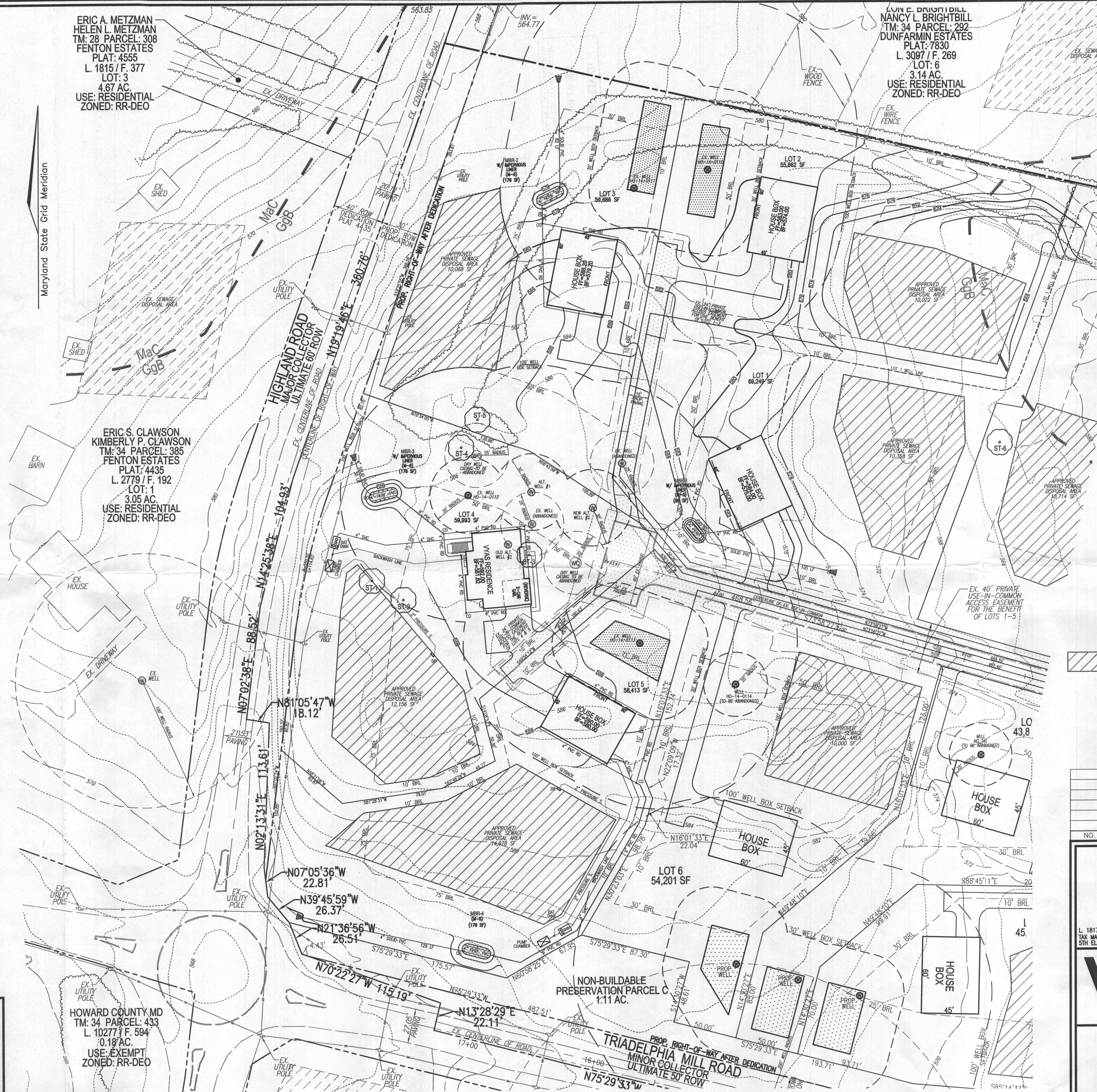
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APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.

Howard County, MD
TM: 34 PARCEL: 433
L. 10277 / F. 594
0.18 AC.
USE: EXEMPT
ZONED: RR-DEO

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.

Edward J. Glawe
EDWARD J. GLAWE
PROFESSIONAL LAND SURVEYOR No. 21391
DATE: JUNE 18, 2018



PLAN SCALE
SCALE: 1"=40'

PERCOLATION CERTIFICATION REVISION PLAN

JACK'S LANDING - LOT 4
5525 JACKS LANDING WAY
CLARKSVILLE, MD 21029
1.38 AC.
(PLAT: 23952-23955)

L. 18178 / F. 281
TAX MAP: 34 GRID: 03
5TH ELECTION DISTRICT

ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
3300 N. RIDGE ROAD, SUITE 110, ELLIOTT CITY, MD 21043
TEL: 410.461.7666 FAX: 410.461.8961

NO.	REVISION	DATE

PROFESSIONAL CERTIFICATE

DESIGN BY: RHV
DRAWN BY: JMR
CHECKED BY: RHV
DATE: JUNE 18, 2018
SCALE: 1"=40'
W.O. NO.: 13-31

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16193, EXPIRATION DATE: 09-27-2018.

1 SHEET OF 1

ROBERT H. VOGEL, PE No.16193

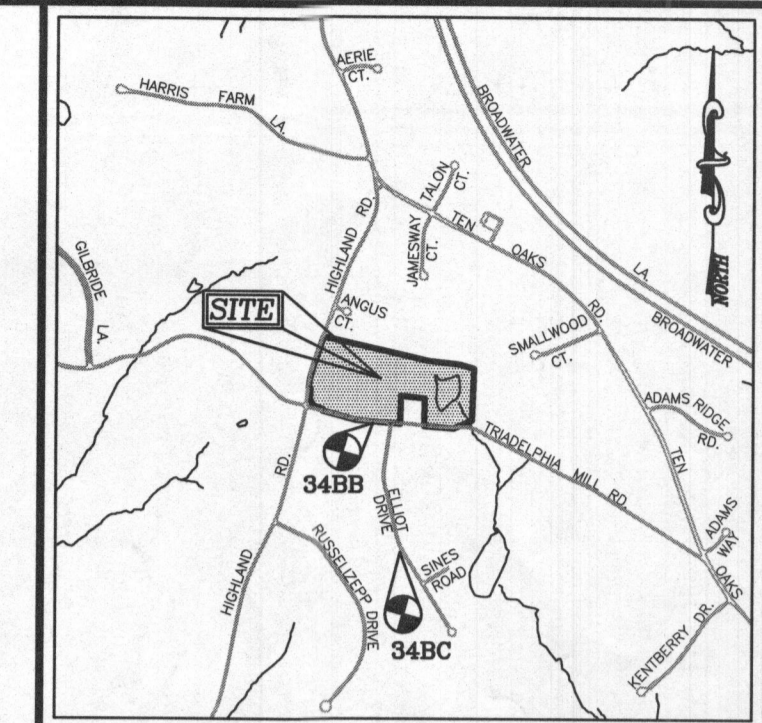
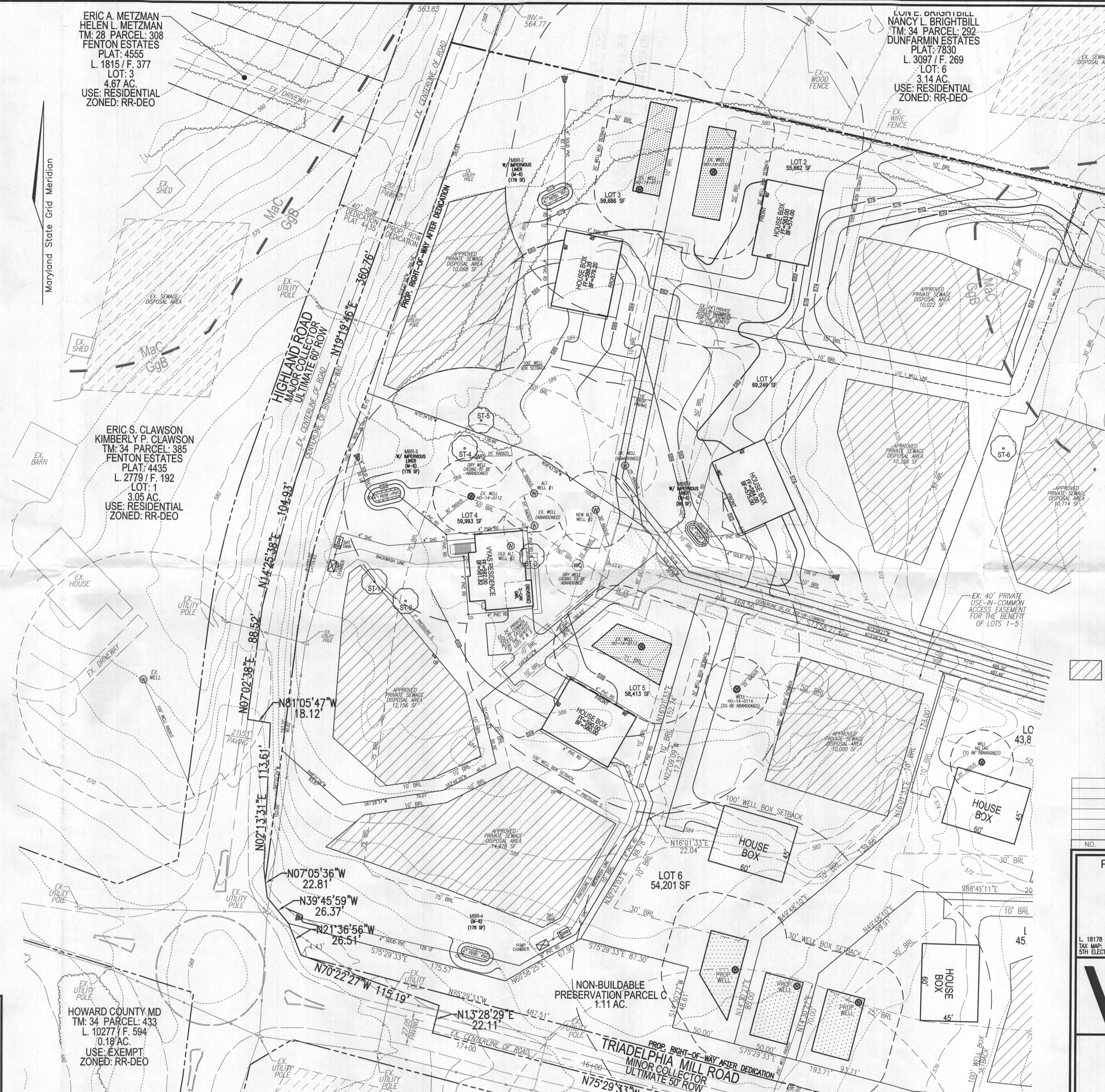
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HELEN L. METZMAN
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FENTON ESTATES
PLAT: 4555
L. 1815 / F. 377
LOT: 3
4.67 AC.
USE: RESIDENTIAL
ZONED: RR-DEO

LON C. BRIGHTBILL
NANCY L. BRIGHTBILL
TM: 34 PARCEL: 292
DUNFARMIN ESTATES
PLAT: 7830
L. 3087 / F. 269
LOT: 6
3.14 AC.
USE: RESIDENTIAL
ZONED: RR-DEO

ERIC S. CLAWSON
KIMBERLY P. CLAWSON
TM: 34 PARCEL: 385
FENTON ESTATES
PLAT: 4435
L. 2779 / F. 192
LOT: 1
3.05 AC.
USE: RESIDENTIAL
ZONED: RR-DEO



VICINITY MAP
SCALE: 1"=2,000'
ADC MAP COORDINATE: PAGE: 24 GRID: E8

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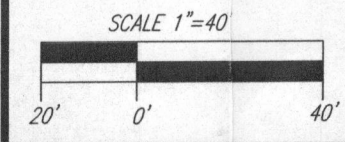
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Robert H. Vogel 7/13/2018
COUNTY HEALTH OFFICER DATE

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EDWARD J. CLAWE DATE
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SCALE: 1"=40'

NO.	REVISION	DATE

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(PLAT: 23952-23955)

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5TH ELECTION DISTRICT

PARCEL: 414
OWNER: RR-DEO
HOWARD COUNTY, MARYLAND

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ENGINEERS • SURVEYORS • PLANNERS
3300 N. RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
TEL: 410.461.7666 FAX: 410.461.8961

DESIGN BY: RHV
DRAWN BY: JMR
CHECKED BY: RHV
DATE: JUNE 18, 2018
SCALE: 1"=40'
W.O. NO.: 13-31

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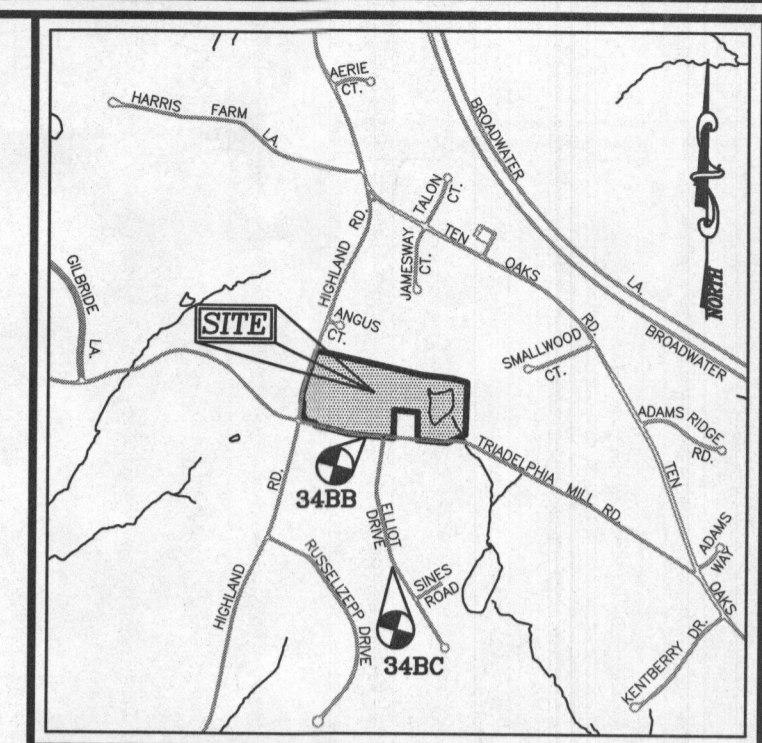
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12. THE PURPOSE OF THIS PERCOLATION CERTIFICATION REVISION PLAN IS TO PROVIDE ADDITIONAL SEWAGE DISPOSAL AREA ON LOT 4.
13. THE SEPTIC SYSTEM FOR LOT 4 MUST BE DESIGNED FOR DOUBLE THE NUMBER OF BEDROOMS, WITH WHOLE HOUSE REVERSE OSMOSIS, WITH 1:1 OR BETTER BACKWASH RATIO.

ERIC A. METZMAN
HELEN L. METZMAN
TM: 29 PARCEL: 308
FENTON ESTATES
PLAT: 4355
L. 1815 / F. 377
LOT: 3
4.67 AC.
USE: RESIDENTIAL
ZONED: RR-DEO

LUY C. DRIGNI DILL
NANCY L. BRIGHTBILL
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	EXISTING RIGHT-OF-WAY LINE
	PROPOSED RIGHT-OF-WAY LINE
	ADJACENT PROPERTY LINE
	EXISTING CURB AND GUTTER
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	EXISTING TREELINE
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	EXISTING UTILITY POLE
	EXISTING 10' CONTOUR
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	APPROVED WELL BOX
	PROPOSED TREELINE
	PROPOSED 10' CONTOUR
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	PROPOSED RAIN GARDEN (M-7)
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OWNER
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AMRISH J. VYAS
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LAUREL, MD 20724
(301) 261-0277

BUILDER
CARUSO HOMES
2120 BALDWIN AVE., #200
CROFTON, MD 21114
(301) 261-0277

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	ERODIBLE
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	.20	NO
McC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	C	.24	NO

SOILS INFORMATION FROM USDA WEB SOIL SURVEY WEBSITE

NOTE:
HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR K GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT

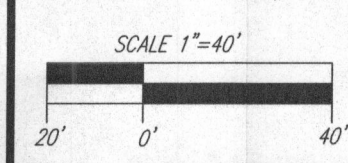
NOTE:
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APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS.

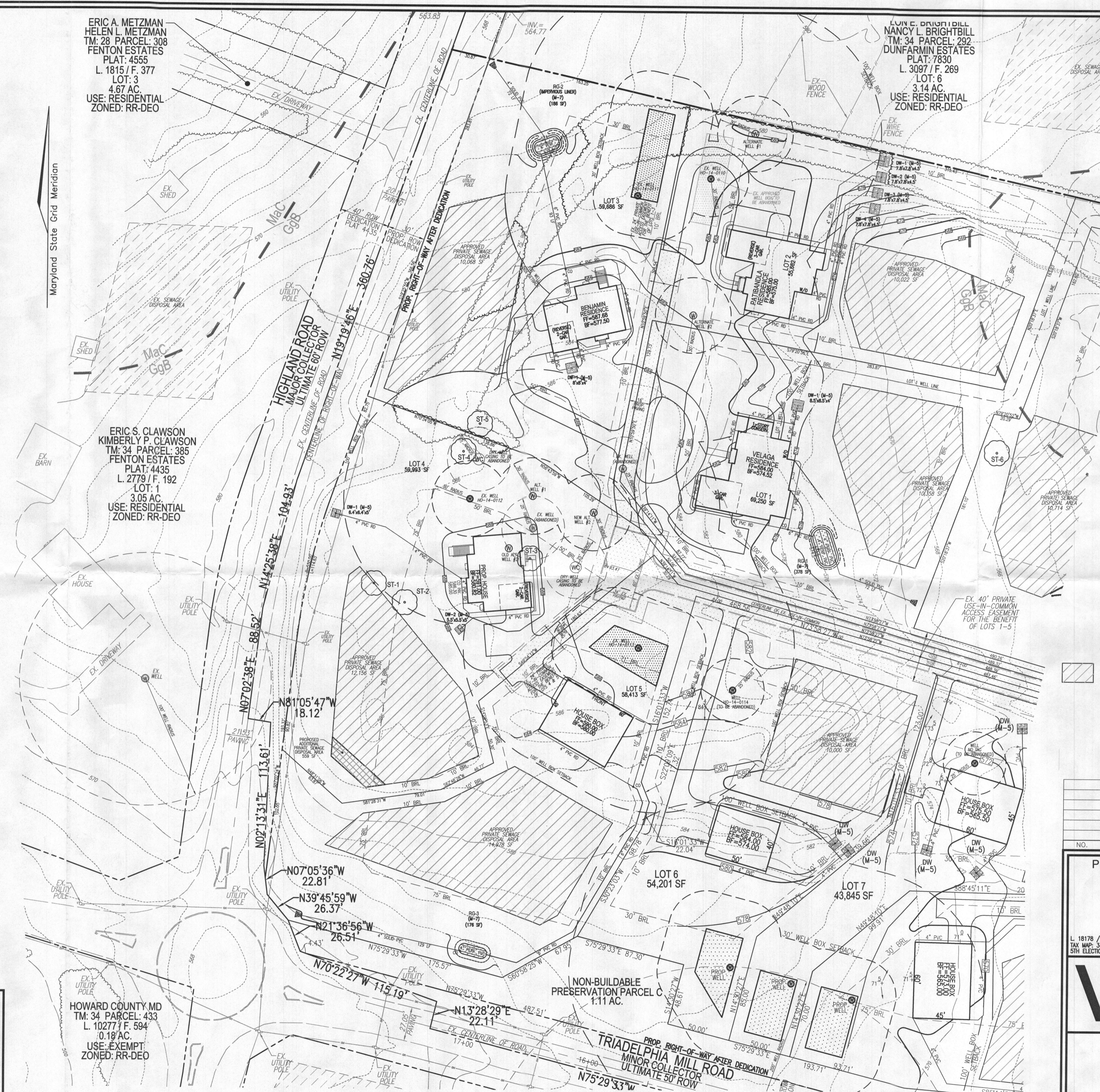
Deborah M. Crossman 12/4/2018
COUNTY HEALTH OFFICER DATE

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Eric D. Salmi 11/21/2018
ERIC D. SALMI DATE
PROFESSIONAL LAND SURVEYOR No. 21639



PLAN SCALE
SCALE: 1"=40'



NO.	REVISION	DATE

PERCOLATION CERTIFICATION REVISION PLAN

JACK'S LANDING - LOT 4
5525 JACKS LANDING WAY
CLARKSVILLE, MD 21029
1.38 AC
(PLAT: 23952-23955)

L. 18178 / F. 281
TAX MAP: 34 GRID: 03
5TH ELECTION DISTRICT

PARCEL: 414
ZONED: RR-DEO
HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
3300 N. RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
TEL: 410.461.7666 FAX: 410.461.8961

PROFESSIONAL CERTIFICATE

DESIGN BY: RHV
DRAWN BY: JMR
CHECKED BY: RHV
DATE: NOVEMBER 21, 2018
SCALE: 1"=40'
W.O. NO.: 13-31

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. 15033, EXPIRATION DATE: 09-27-2018

1 SHEET OF 1

GENERAL NOTES

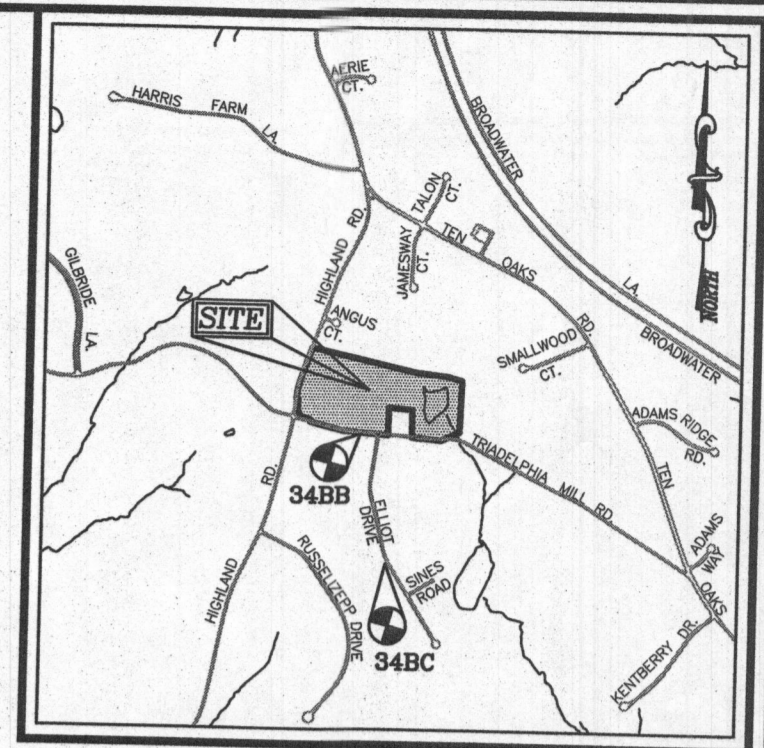
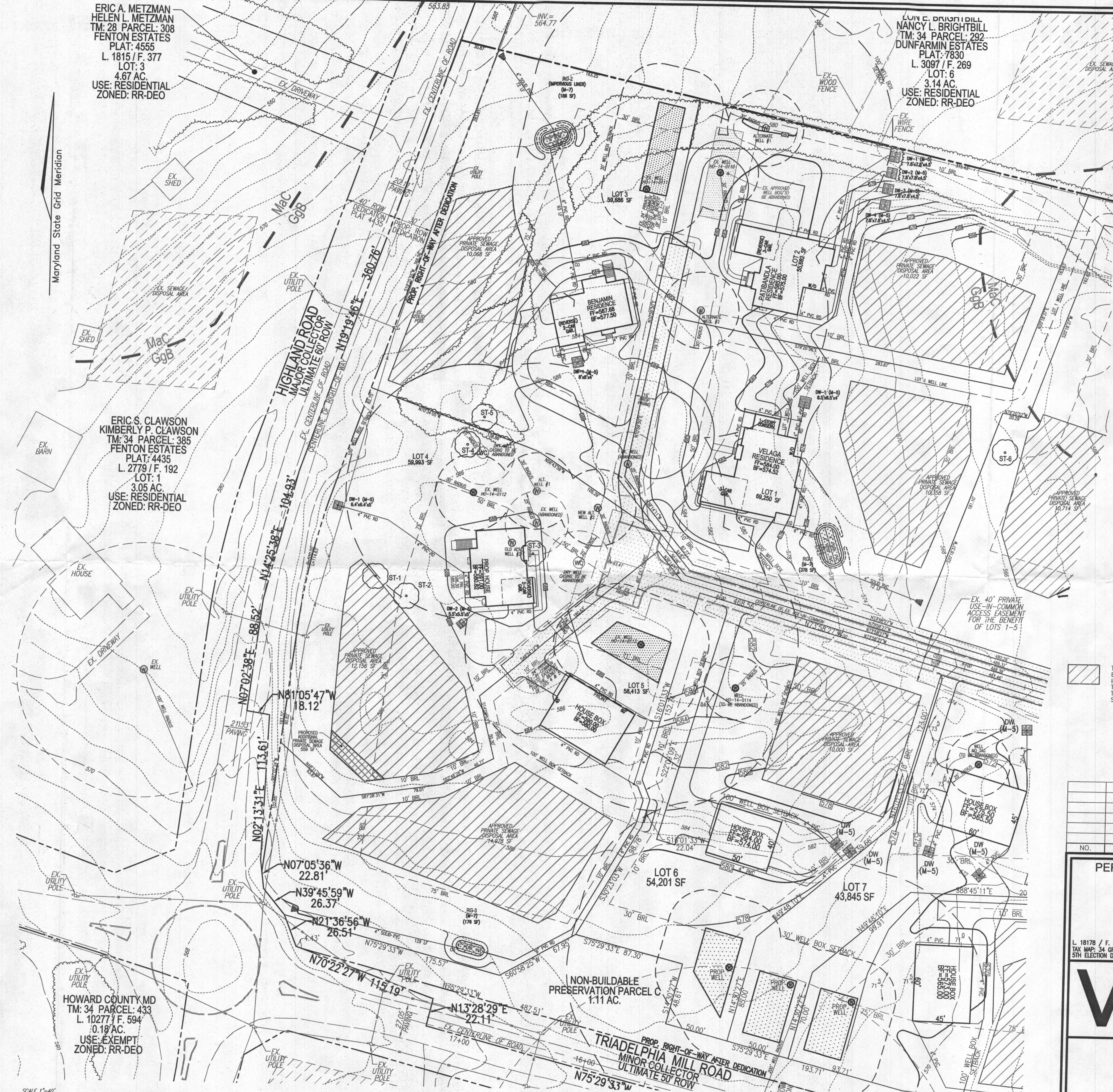
1. THIS SUBJECT PROPERTY IS ZONED RR-DEO.
2. PROPERTY OUTLINE SHOWN HEREON IS BASED ON A FIELD RUN BOUNDARY SURVEY PERFORMED BY ROBERT H. VOGEL ENGINEERING, INC., DATED NOVEMBER, 2013.
3. DEED REFERENCES: LIBERTY 19179 FOLD 291
4. THE EXISTING TOPOGRAPHY IS TAKEN FROM CURRENT HOWARD COUNTY GIS DATA AND FIELD VERIFIED TO BE ACCURATE.
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 PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
8. ADJUSTMENT TO THE SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
9. THE LOT SHOWN HEREON COMPLES 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. THIS LOT COMPLES WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
12. THE PURPOSE OF THIS PERCOLATION CERTIFICATION REVISION PLAN IS TO PROVIDE ADDITIONAL SEWAGE DISPOSAL AREA ON LOT 4.
13. THE SEPTIC SYSTEM FOR LOT 4 MUST BE DESIGNED FOR DOUBLE THE NUMBER OF BEDROOMS, WITH WHOLE HOUSE REVERSE OSMOSIS, WITH 1:1 OR BETTER BACKWASH RATIO.

ERIC A. METZMAN
HELEN L. METZMAN
TM: 28 PARCEL: 308
FENTON ESTATES
PLAT: 4555
L. 1815 / F. 377
LOT: 3
4.67 AC.
USE: RESIDENTIAL
ZONED: RR-DEO

LOUIE E. BRIGHTBILL
NANCY L. BRIGHTBILL
TM: 34 PARCEL: 292
DUNFARMIN ESTATES
PLAT: 7830
L. 3097 / F. 269
LOT: 6
3.14 AC.
USE: RESIDENTIAL
ZONED: RR-DEO

ERIC S. CLAWSON
KIMBERLY P. CLAWSON
TM: 34 PARCEL: 385
FENTON ESTATES
PLAT: 4435
L. 2779 / F. 192
LOT: 1
3.05 AC.
USE: RESIDENTIAL
ZONED: RR-DEO

Maryland State Grid Meridian



VICINITY MAP
SCALE: 1"=2,000'
ADC MAP COORDINATE: PAGE: 24 GRID: E8

LEGEND:

- PROPERTY LINE
- - - - - EXISTING RIGHT-OF-WAY LINE
- - - - - PROPOSED RIGHT-OF-WAY LINE
- ADJACENT PROPERTY LINE
- EXISTING CURB AND GUTTER
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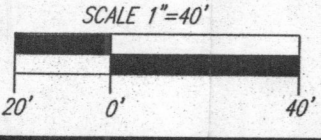
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1 SHEET OF 1

ROBERT H. VOGEL, PE No. 16193