

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

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

RECEIPT DATE: 11/16/18 **ONSITE SEWAGE DISPOSAL SYSTEM** P 564070

APPROVAL DATE: 01/30/2019 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 12411 All Daughters Lane

SUBDIVISION: Orchard Estates LOT: 3 TAX ID: 05-451086

CONTRACTOR: Hatfield's Equipment EMAIL: ken@hatfieldsequiment.com

CONTRACTOR ADDRESS: P.O. Box 519, Annapolis Junction, MD 20701 PHONE: 301-490-4289

PROPERTY OWNER: MB Brown Bridge Court LLC. EMAIL: dandahvac@aol.com

OWNER ADDRESS: 1686 East Drive, Rockville, MD 20850 PHONE: 301-762-9511

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Babylon Vault

PUMP MODEL: N/A PUMP SIZE: N/A PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 45 APPLICATION RATE: 0.8

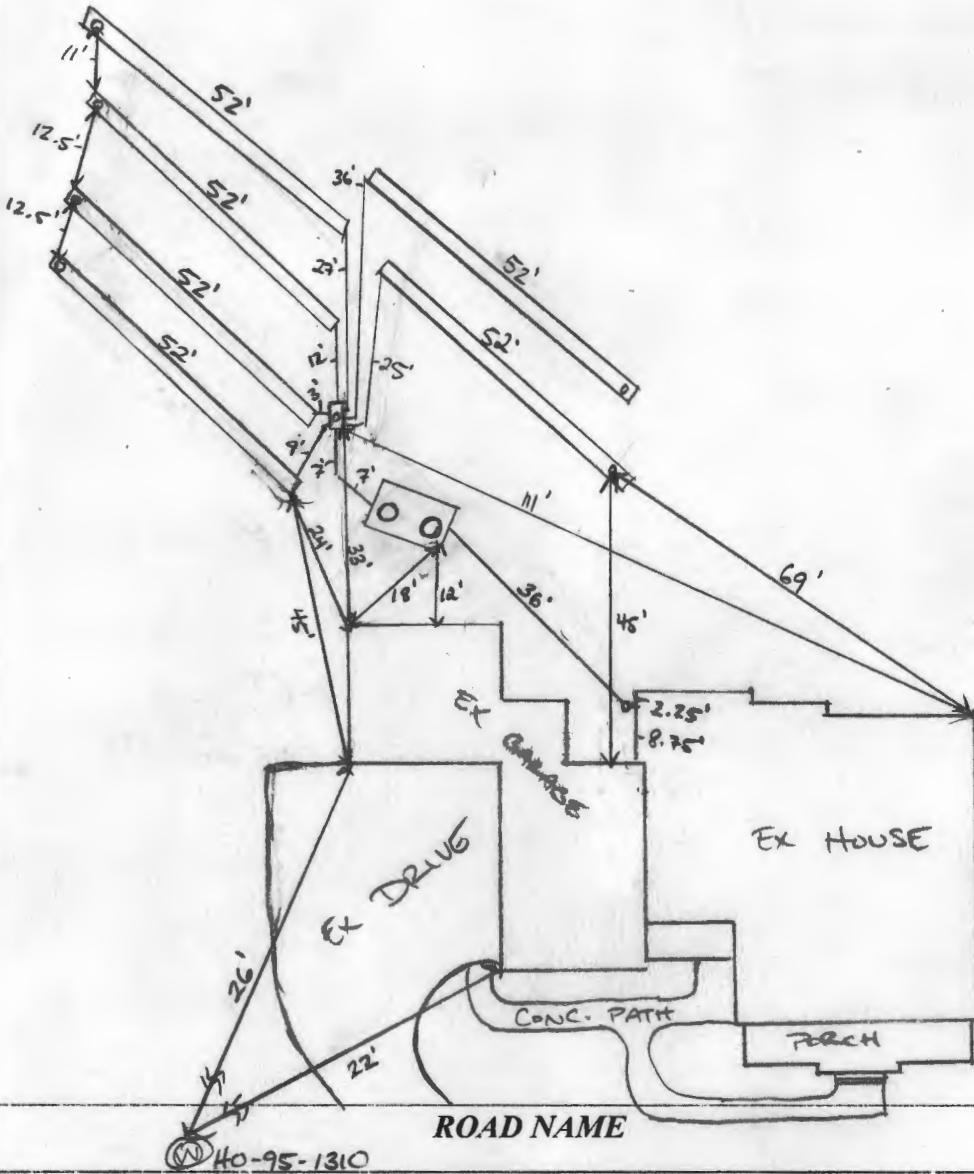
TRENCHES:	LINEAR FEET REQUIRED: <u>250 312.5</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>5</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>9</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: Robert Freeman J. Williams ISSUE DATE: 11/16/18 EXPIRATION DATE: 11/16/19

- 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



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	5'
NUMBER OF TRENCHES	6	
TOTAL LENGTH	312.5'	
ABSORPTION AREA	936 FT ²	
DISTRIBUTION BOX LEVEL	YES	
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	1.5'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT/BACK
6" PORT LOC	INLET
WATERTIGHT TEST	N/A
SLOTTED	YES
DATE ON LID	11/2/2018
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:

1/23/2019 LAID OUT 6 TRENCH PER PLAN. TANK STAKED. SEWER OUT OF HOUSE PER PLAN ALL SYSTEMS GO. (P)

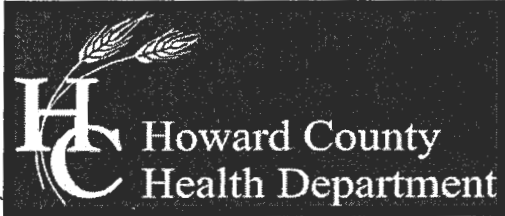
INSTALLATION: 01/25/2019 SHC INSTALLED AND TANK SET. BAFFLES COMPLETE. D BOX SET AND TWO TRENCHES CONSTRUCTED 1/28/2019 REMAINING TRENCHES COMPLETE. STONE OR D BOX LEVELED WITH SPEED LEVELS. (P)

FINAL INSPECTOR

Handwritten signature of the final inspector.

DATE OF APPROVAL

01/30/2019



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Twitter: HowardCoHealthDep

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SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: All Daughters Lane

Subdivision: Orchard Estates Lot: 3

Initial system: Application rate: 0.8 Effective area beginning depth: 5 Bottom maximum depth: 5
 1st Replacement: Application rate: 0.8 Effective area beginning depth: 5 Bottom maximum depth: 5
 2nd Replacement: Application rate: 0.8 Effective area beginning depth: 4 Bottom maximum depth: 5

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

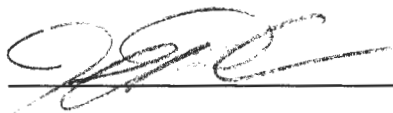
Sidewall reduction credit formula:

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

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:

Approved:  Date: 12/8/15



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BURTONSVILLE, MD 20866
301-421-4024 | FAX: 301-421-4186
WWW.GLWPA.COM

LETTER OF TRANSMITTAL

TO: Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD 21045

ATTN: Robert Freemon

DATE	9-10-2018	JOB NO.	15112
PROJECT	Orchard Estates		
	Lot 3 (12411 All Daughters Lane)		

WE ARE SENDING THE FOLLOWING ITEMS: ATTACHED UNDER SEPARATE COVER

MYLARS PRINTS COST ESTIMATES DESCRIPTIONS GRADE SHEETS

COPY OF LETTER APPLICATIONS COMPUTATIONS OTHER _____

VIA: MAIL OVERNIGHT GLW COURIER COURIER OTHER _____

COPIES	DATE	PAGES	DESCRIPTION
3		1 of 1	OSDS plan for 12411 All Daughters Lane (Lot 3)

THESE ARE TRANSMITTED as checked below:

FOR APPROVAL SIGN & RETURN

FOR YOUR USE AS SUBMITTED TO _____

FOR REVIEW & COMMENT AS REQUESTED BY _____

PER YOUR REQUEST _____

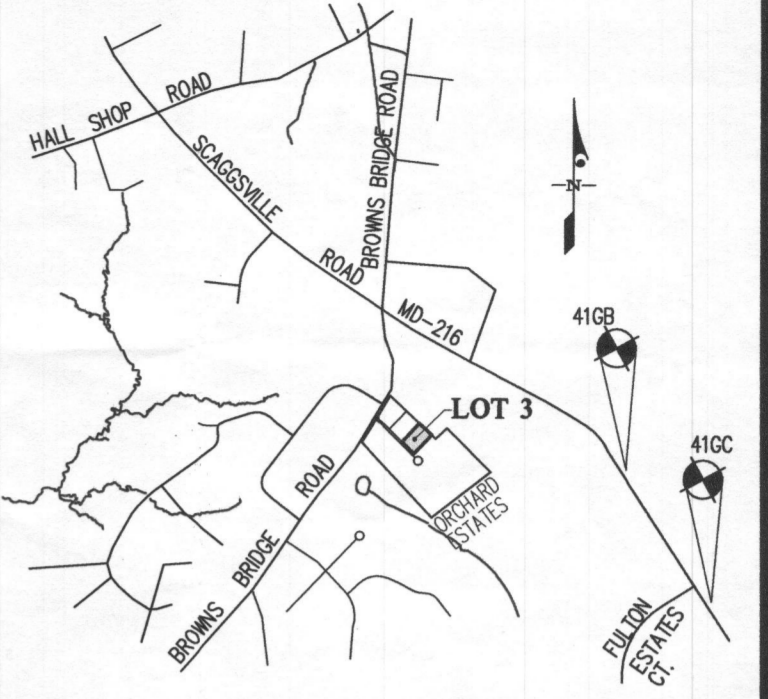
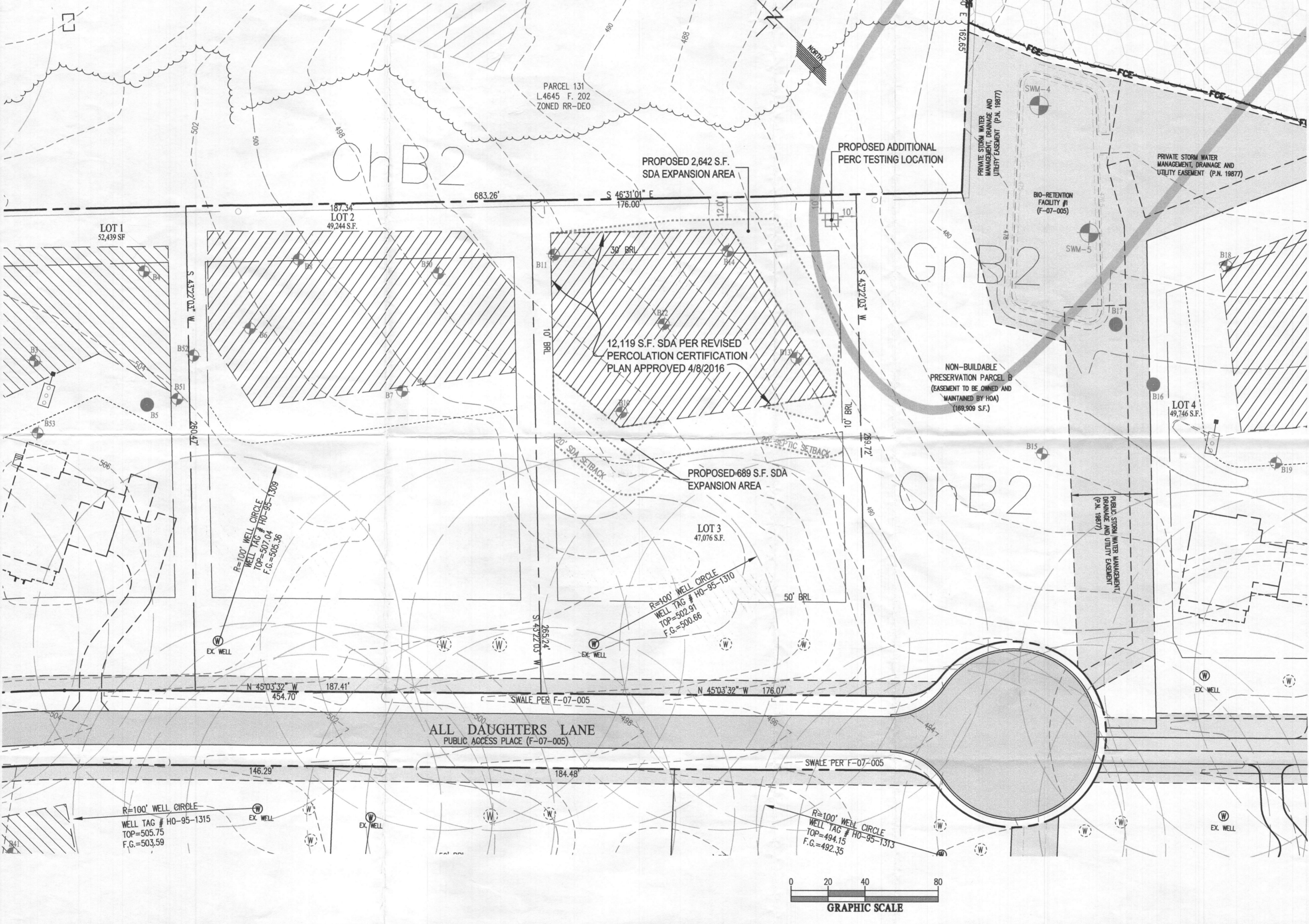
REMARKS: Hi Robert, here is the OSDS plan for Lot 3 for review.
Please let me know if you have any comments and when it is ready for pick-up

COPY TO: _____

SIGNED: Kristy Pierce
 Kristy Pierce

SOILS CHART					
MAP SYMBOL	NAME	STRUCTURAL LIMITATIONS	EROSION HAZARD	HYDRIC	SLOPE (%)
		DWELLINGS			
ChB2	Chester Silt Loam	Slight	Moderate	No	3-8%
ChC2	Chester Silt Loam	Moderate	Moderate	No	8-15%
EkB2	Elioak Silt Loam	Slight	Moderate	No	3-8%
GnB2	Glenville Silt Loam	Moderate	Moderate	No*	3-8%
MID2	Manor Loam	Moderate/Severe	Moderate	No	15-25%

* Soil may contain hydric inclusion



VICINITY MAP		ADC MAP: 31
SCALE: 1" = 2,000'		GRID: C7
BENCHMARKS		
41GC	ELEV. 468.374	N = 543,290.6332 E = 1,331,697.8591
41GB	ELEV. 475.304	N = 544,580.3747 E = 1,330,741.3820

PLAN LEGEND	
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	PROPOSED PRIVATE SEWAGE DISPOSAL EXPANSION AREA
	TP # PERCOLATION TEST HOLES (PASSED)
	TP # PERCOLATION TEST HOLES (FAILED)
	PROPOSED ADDITIONAL PERCOLATION TESTING LOCATION
	EXISTING WELL LOCATION
	ALTERNATE WELL LOCATION

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PHONE: 301-421-4024 | BALT: 410-880-1820 | DC&VA: 301-989-2524 | FAX: 301-421-4186

DESIGNED BY:
DRAWN BY: KLP
CHECKED BY: CKG

OWNER (BUILDER):
MB BROWNS BRIDGE COURT LLC
1686 E. CUDE DRIVE
ROCKVILLE, MARYLAND 20850
PH: 410-762-9511
ATTN: MARTY MITCHELL

SCALE
1" = 40'

DATE
JULY 2018

ZONING
RR-DEO

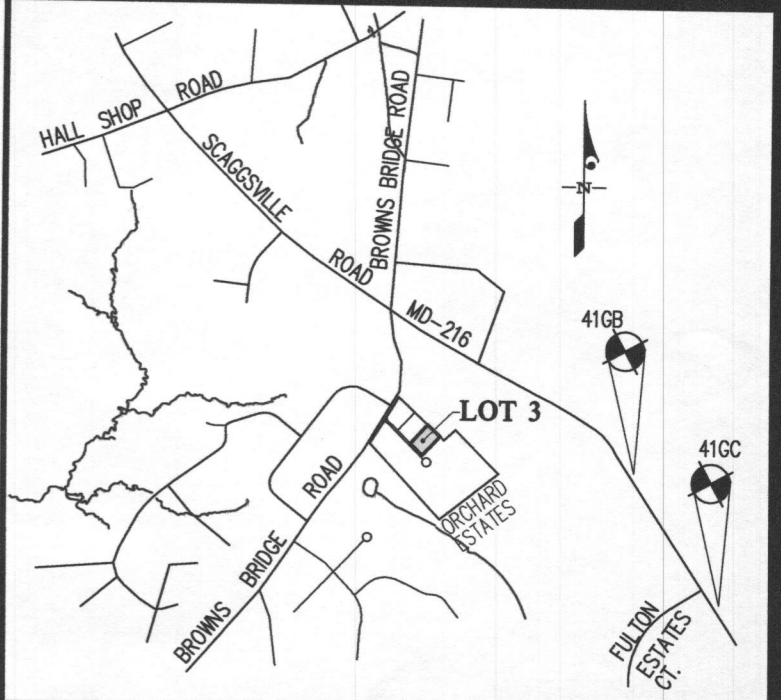
TAX MAP - GRID
40 - 18

SITE PLAN FOR ADDITIONAL PERCOLATION TESTING

ORCHARD ESTATES
LOT 3 (12411 ALL DAUGHTERS LANE)
Plat No. 19876-19877

G. L. W. FILE No.
15112

SHEET
1 OF 1



VICINITY MAP
SCALE: 1" = 2,000'
ADC MAP: 31
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- TRENCH REPLACEMENT SYSTEM NO. 2 (43.5' each)

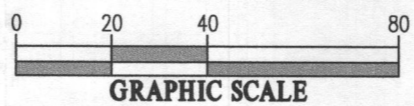
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APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. _____ DATE _____

OWNER (BUILDER):
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ROCKVILLE, MARYLAND 20850
PH: 410-762-9511
ATTN.: MARTY MITCHELL



SOILS CHART:

MAP UNIT	MAP UNIT NAME	TYPE
GbA	GLADSTONE LOAM, 0 TO 3 PERCENT SLOPES	A
GbB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	A

SOILS DELINEATION LINE

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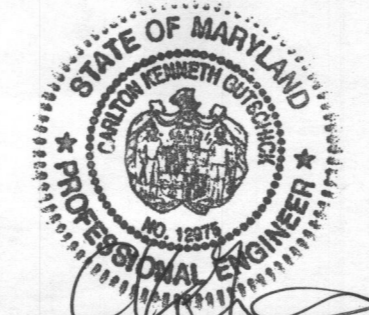
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DESIGNED BY: _____
DRAWN BY: KLP
CHECKED BY: CKG

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS 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. 12975, EXPIRATION DATE: MAY 26, 2020.

8/16/18

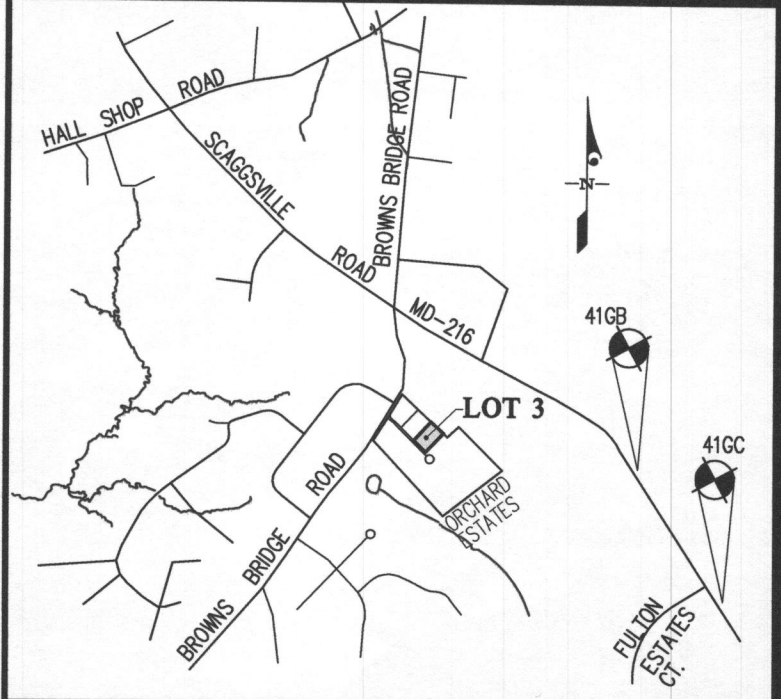


SCALE	ZONING
1" = 40'	RR-DEO
DATE	TAX MAP - GRID
AUG. 2018	40 - 18

REVISED PERCOLATION CERTIFICATION PLAN

ORCHARD ESTATES
LOT 3 (12411 ALL DAUGHTERS LANE)
Plat No. 19876-19877

G. L. W. FILE No. 15112
SHEET 1 OF 1



VICINITY MAP
SCALE: 1" = 2,000'
ADC MAP: 31
GRID: C7

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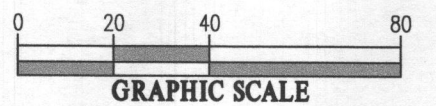
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HOWARD COUNTY HEALTH DEPARTMENT

HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. _____ DATE _____

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ATTN.: MARTY MITCHELL



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MAP UNIT	MAP UNIT NAME	TYPE
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G6B	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	A

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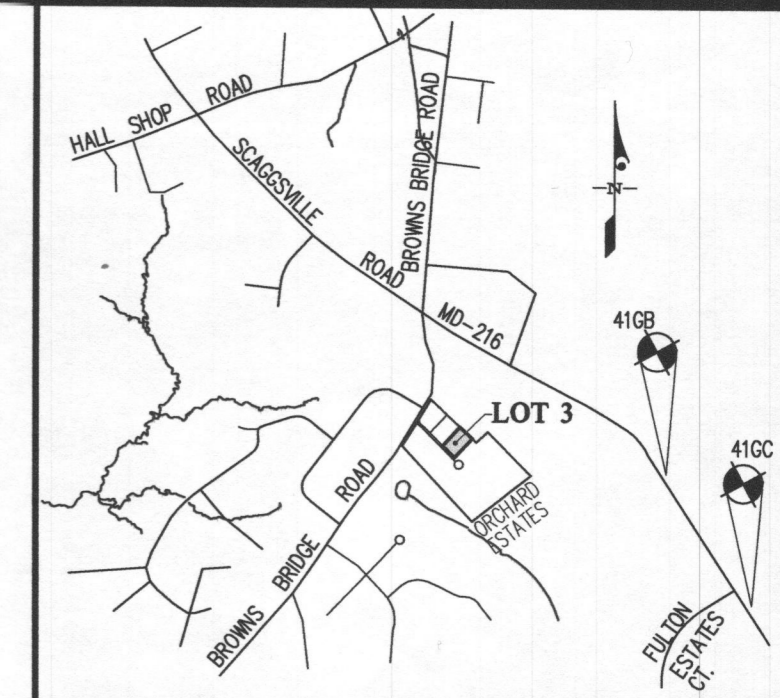
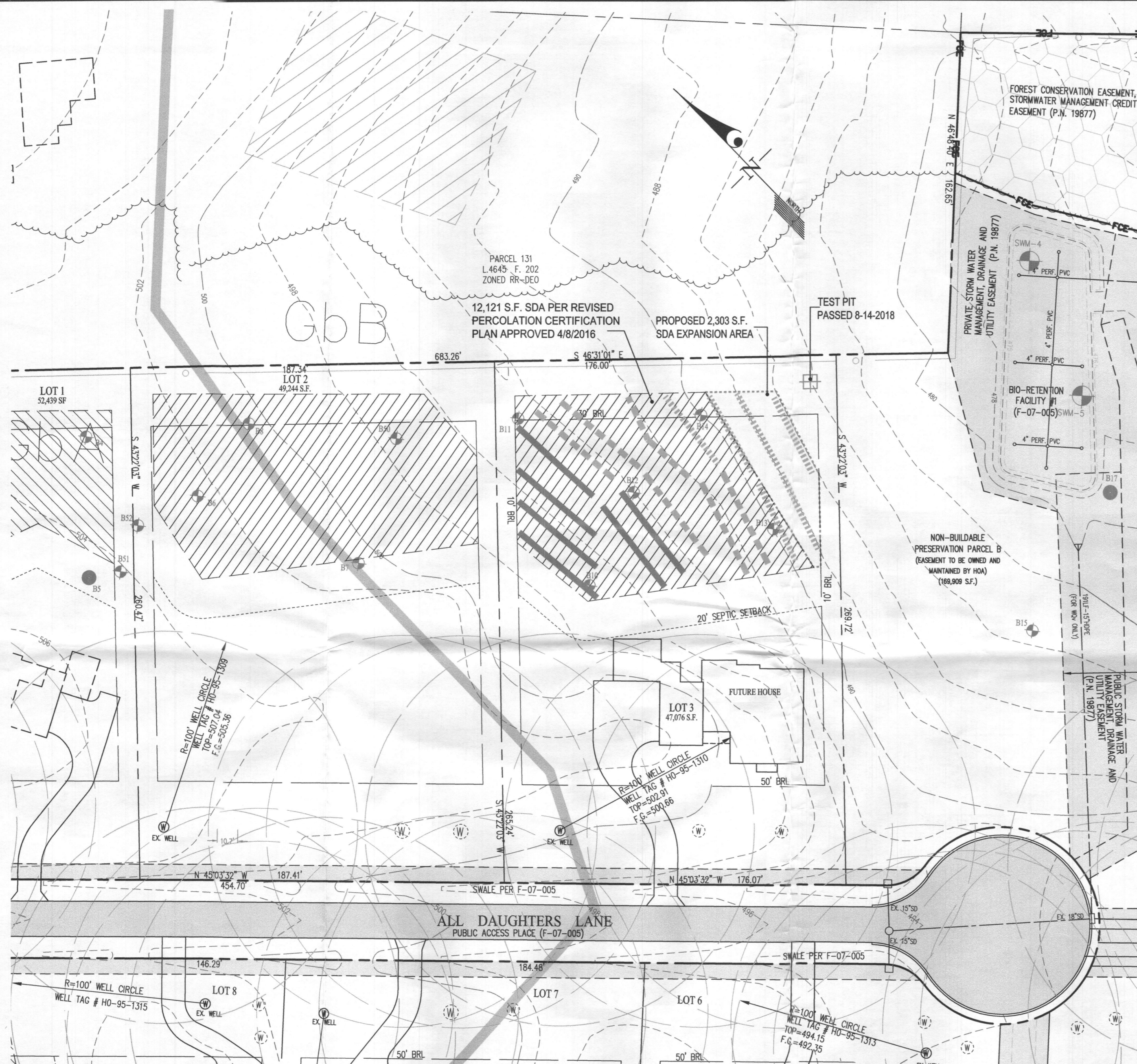
STATE OF MARYLAND
CAROL KENNETH GUTENBERG
PROFESSIONAL ENGINEER
NO. 12975

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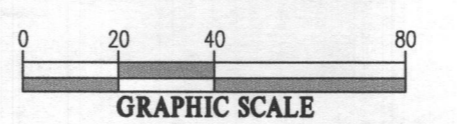
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APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. _____ DATE _____

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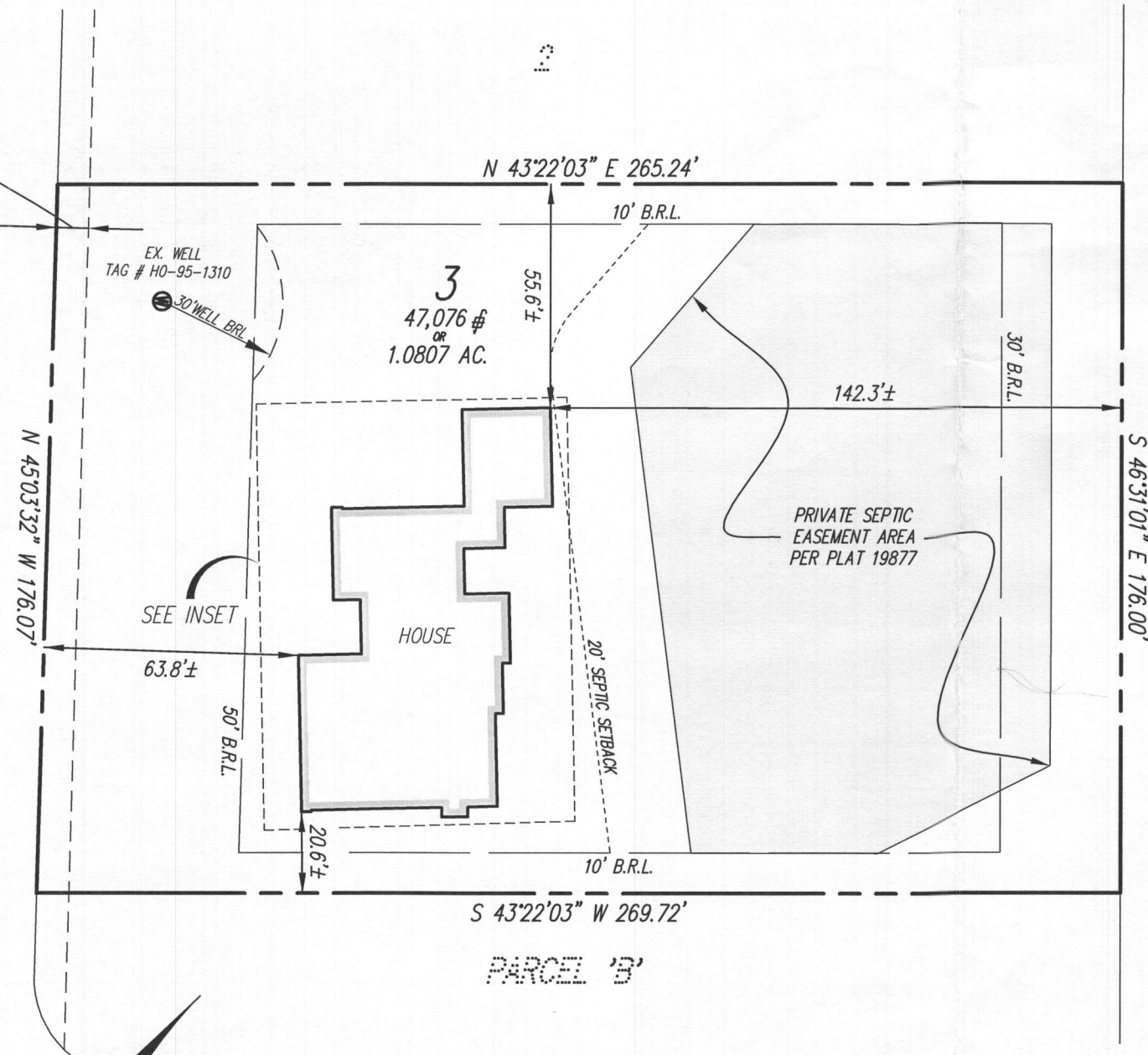
G. L. W. FILE No. 15112

SHEET 1 OF 1

S:\Survey Drawings\WALLCHECK\ORCHARD-ESTATES-15112\WCK-3.dwg, 11/16/2018 9:16:27 AM, morgamb, 5501_SURVEY (COLOR).pc3, 1:1

8' PUBLIC DRAINAGE & UTILITY EASEMENT

ALL DAUGHTERS LANE



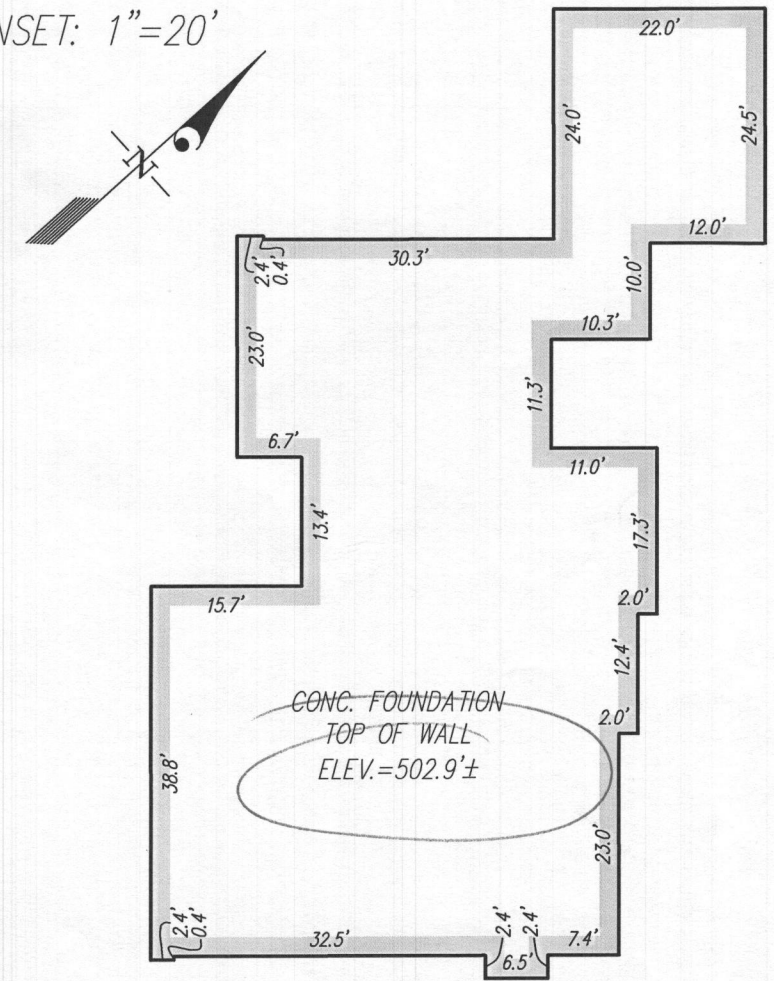
Will check
 Approval
 (KMM)

THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS-OF-WAY, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED. THIS IS NOT A "LOCATION DRAWING" AND IS NOT TO BE USED FOR SETTLEMENT PURPOSES.

THE PROPERTY SHOWN HEREON LIES WITHIN ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON THE F.E.M.A. FLOOD INSURANCE RATE MAP, MAP NUMBER 24027C0140D, EFFECTIVE DATE NOVEMBER 6, 2013.

BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER PLOT PLAN/SEDIMENT CONTROL PLAN. SETBACK DISTANCES SHOWN HEREON ARE TO THE OUTERMOST FACE OF THE FOUNDATION WALLS AND HAVE AN ACCURACY OF ± 0.1' FOOT.

INSET: 1"=20'



SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY TO:
 "MB ORCHARD ESTATES, LLC"

THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF,
 THE POSITION OF THE ABOVE REFERENCED BUILDING FOUNDATION
 HAS BEEN ESTABLISHED BY ACCEPTED FIELD PRACTICES.

For Gutschick, Little and Weber, P.A. :
 Thomas C. O'Connor, Jr.,
 Professional Land Surveyor, No. 10954 (EXP. DATE: 07/03/2020)

THIS WALLCHECK IS VALID ONLY WITH AN ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE SURVEYOR.

WALLCHECK
 (SPECIAL PURPOSE SURVEY)

ORCHARD ESTATES

LOT 3

12411 ALL DAUGHTERS LANE

HOWARD COUNTY, MD

DATE OF LATEST FIELD WORK: 11/14/2018

G.L.W. FILE No. 15112

REFERENCE : PLAT BOOK: N/A

PLAT No. 19877

SCALE: 1"=40'

GLW
 PLANNING | ENGINEERING | SURVEYING

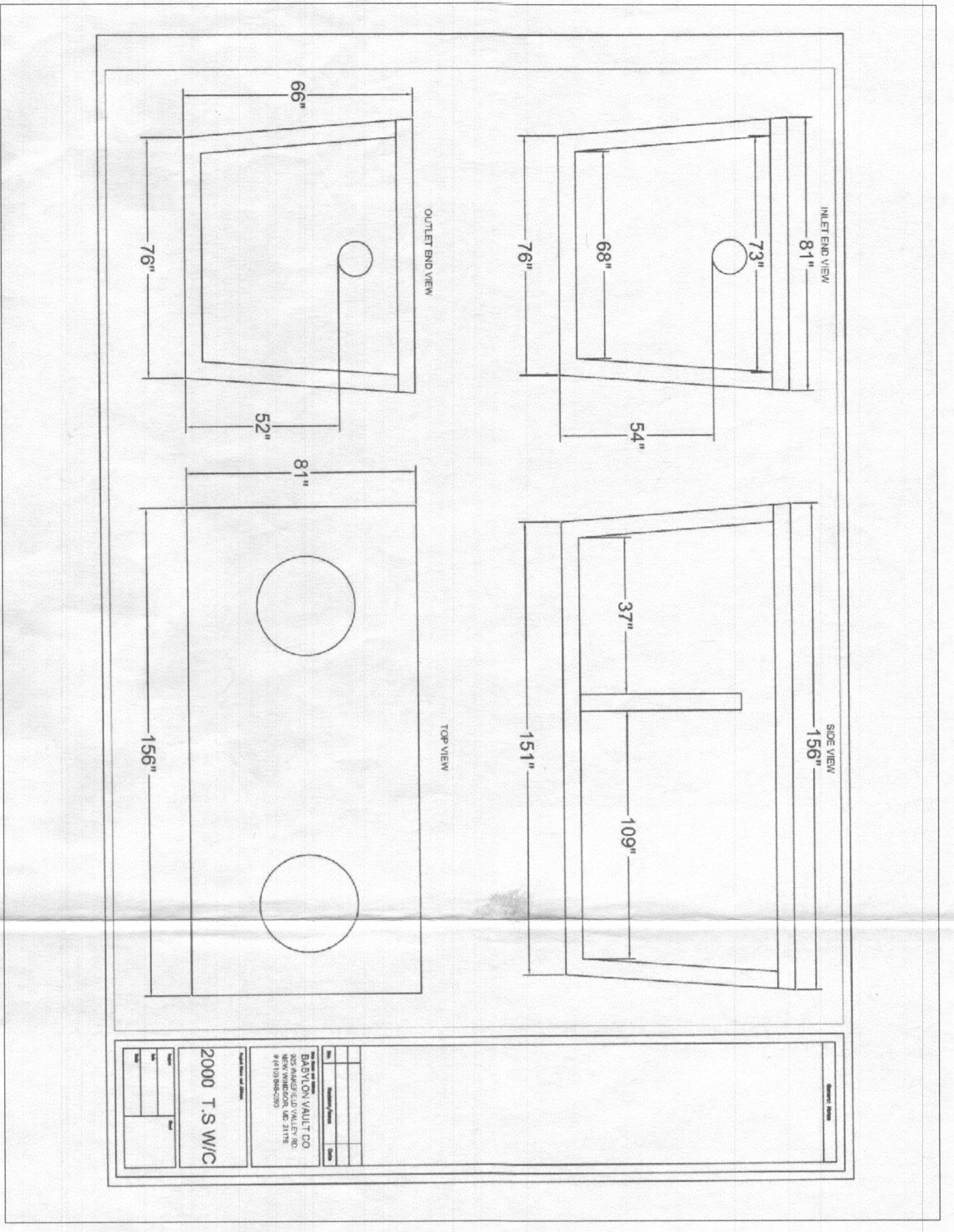
3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20886 | GLWPA.COM
 PHONE: 301-421-4024 | BALT: 410-880-1820 | DC&VA: 301-889-2524 | FAX: 301-421-4188

DES.

DRN. MAB

CHK.

PREPARED FOR:
 MB ORCHARD
 ESTATES, LLC
 1686 E. GUDE DRIVE
 ROCKVILLE, MARYLAND
 20850



ORCHARD ESTATES

System Input Information

Application Rate	Initial System	Replacement System No. 1	Replacement System No. 2
0.8	0.8	0.8	0.8
Effective area beginning depth	5.0	5.0	5.0
Effective area maximum bottom depth	5.0	5.0	5.0
Number of Bedchests	4	4	4
Design Flow (1.50 gal./sq.ft./sec.)	600	600	600

Absorption Trench Calculations

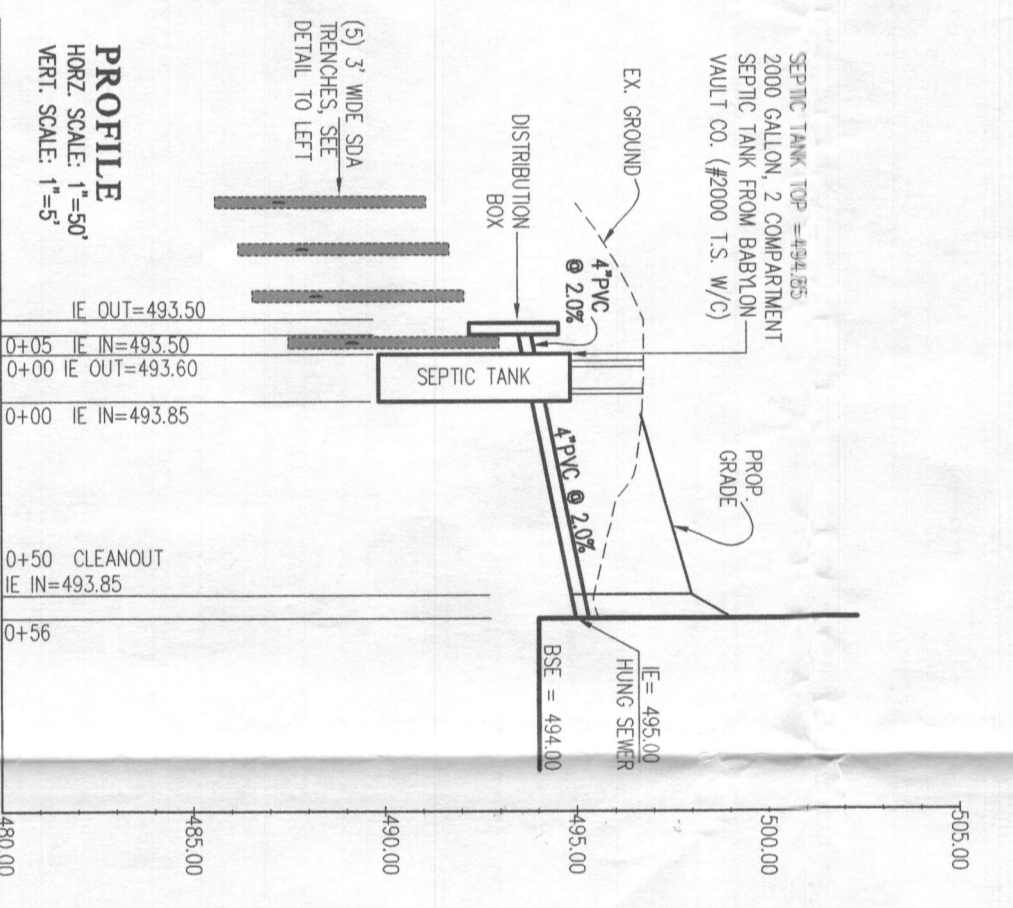
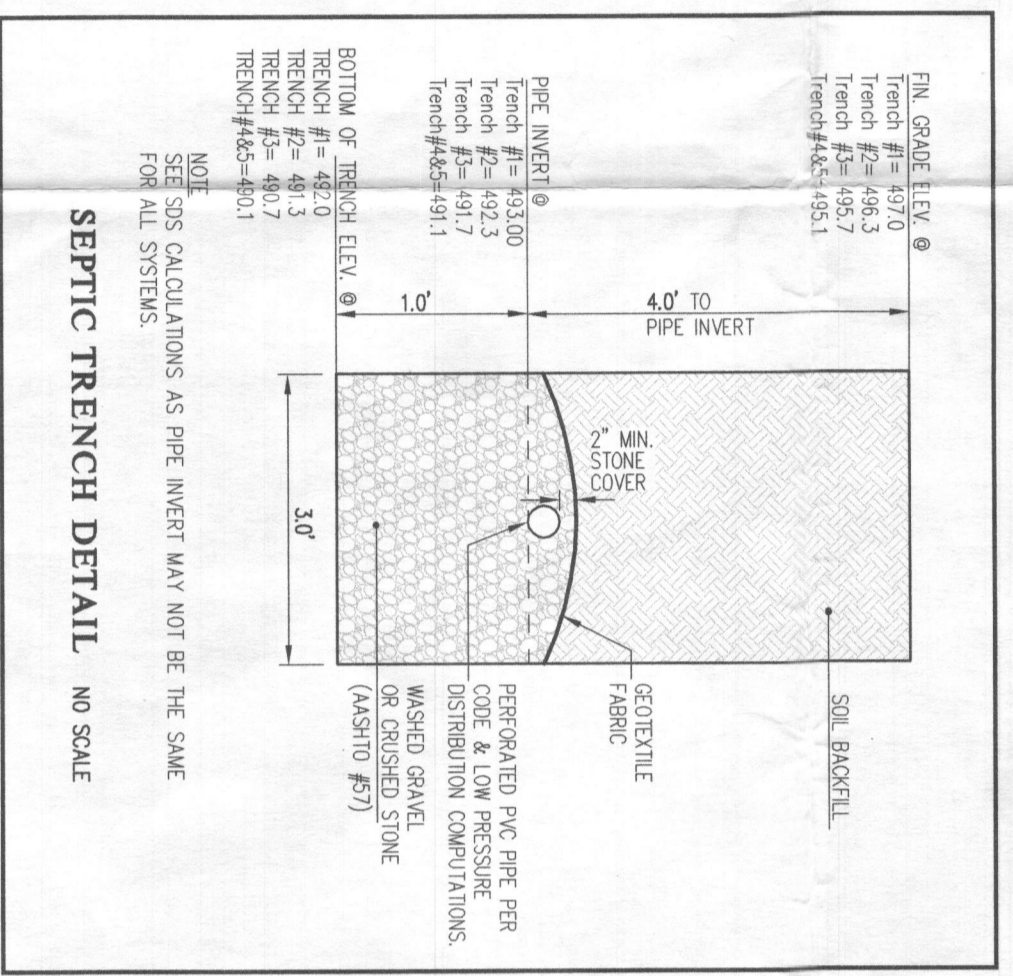
Drainfield area required (less flow application area)	750 s.f.	750 s.f.	750 s.f.
Effluent pipe depth to invert (cannot exceed 4 ft. 2 in. from top)	4.0	4.0	4.0
Effective sidewall depth "D" (depth to pipe depth, which may be deeper) and maximum trench bottom	0.0	0.0	0.0
Trench width "W" (2 or 3 feet)	3.0	3.0	3.0
Side wall Reduction Percent = (W-2)/(W+1)*100	n/a	n/a	n/a
Linear feet of trench required (linear field area x sidewall reduction)/W	250.0	250.0	250.0

Trench Layout Information

Approximate length available on contour & not exceeding 100 ft.	50	70	50
Number of trenches to use	5	4	5
Min. length (linear feet)	50.0	62.5	50.0
Total (linear feet)	250.0	250.0	250.0
Minimum Trench Spacing:	9.0	9.0	9.0

For trenches with no sidewall credit the spacing is 6 ft. 2 in. for 2' wide trench and 9 ft. for 3' wide trench. All trenches utilizing sidewall reduction credit must be spaced a min. of 10' for effective sidewall not over 3.5'. If 3.5', then spacing formula is 20W up to a maximum of 60'.

Approx. width of absorption area
Approx. drained area (sq. feet) 5116
2550



Approved Septic System Plan
Howard County Health Department
9/16/17
Signature: _____ Date: _____

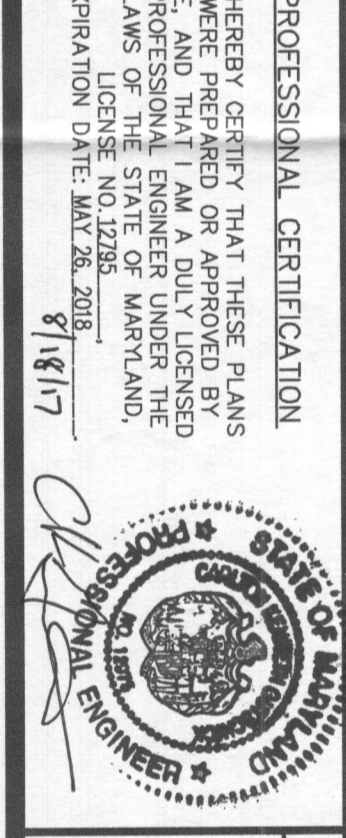
GLW GUTSCHICK LITTLE & WEBER, PA.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 520 - BETHESDA, MARYLAND 20814
TEL: 301-421-4244 FAX: 301-421-4188

DESIGNER: _____ CHECKED: _____ DATE: _____

PREPARED FOR:

MB ORCHARD ESTATES, LLC
1089 E. LODGE LANE
ROOM 300
ATLANTA, GA 30339

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, A PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
EXPIRATION DATE: MAR. 28, 2025
9/16/17



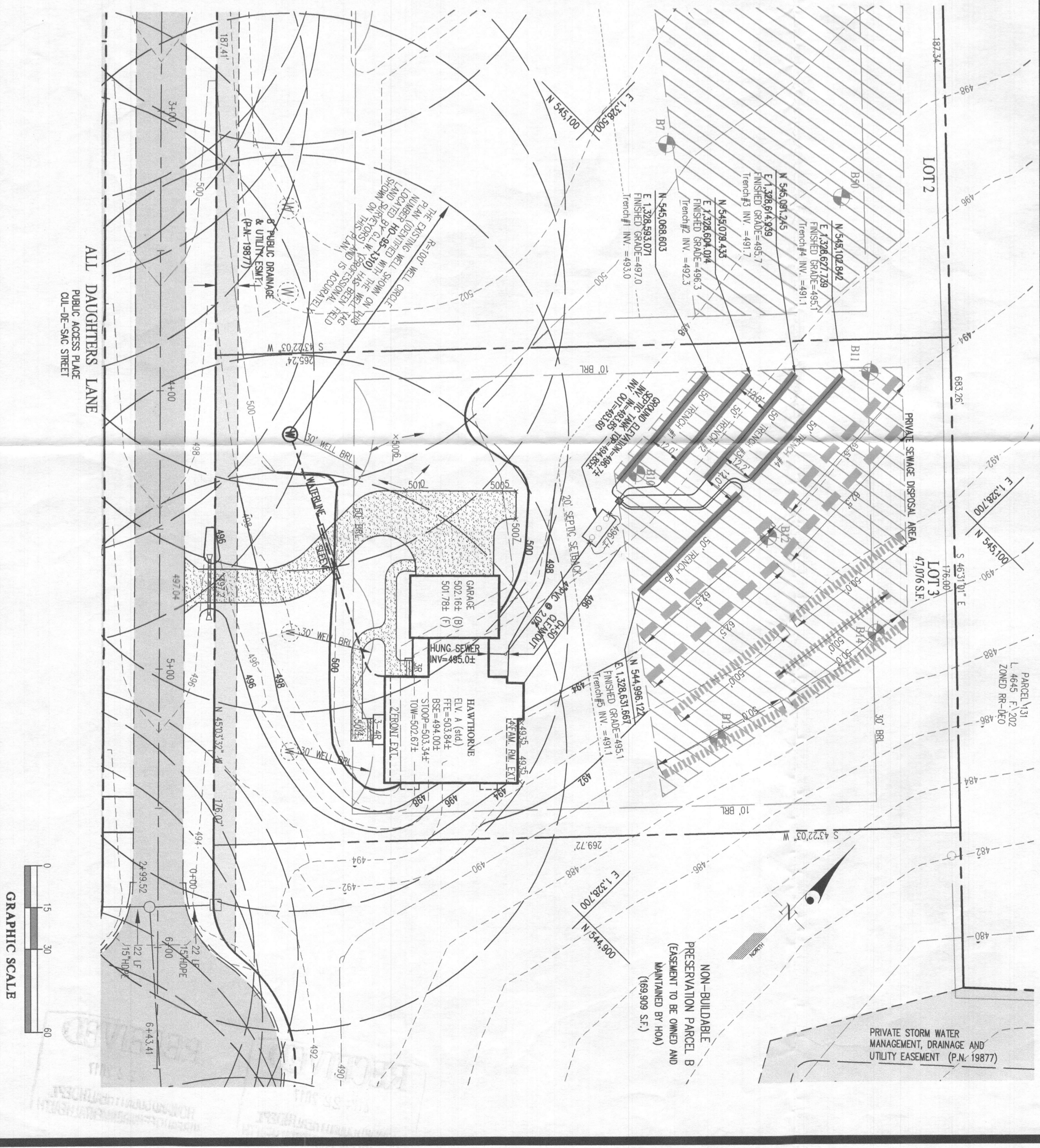
VICINITY MAP
SCALE: 1" = 2,000'

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED ELEVATION
- TOP OF FOUNDATION WALL
- BASEMENT SLAB ELEVATION
- PRIVATE SEWAGE DISPOSAL AREA
- INITIAL SYSTEM 3" WIDE TRENCH
- 1st REPLACEMENT SYSTEM TRENCH
- 2nd REPLACEMENT SYSTEM TRENCH
- REGULATION TEST HOLES (PASSED)
- REGULATION TEST HOLES (FAILED)
- EXISTING WELL LOCATION
- ALTERNATE WELL LOCATION

NOTES

- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY OF THE TRENCHES SHOWN ON THIS PLAN MUST BE APPROVED BY THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM LATCH COVER OVER THE TANK IS 3 FEET BEYOND THE TANK.
- REGULATION TEST HOLES SHALL BE LOCATED AT THE CORNERS OF THE TRENCHES.
- THE WELL (TAG #2-1310) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
- ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' OF THE CENTERLINE OF ANY ADJACENT PROPERTY SHALL BE SHOWN.



ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
ORCHARD ESTATES
LOT 3 (12411 All Daughters Lane)
PLAT No. 19876-19877
HOWARD COUNTY, MARYLAND

SCALE: 1" = 30'
ZONING: RR-DEO
FILE NO.: 15112

DATE: _____ TAX MAP - GRID: _____ SHEET: _____ OF: _____