

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: 6/18/18 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 563026

APPROVAL DATE: 9/27/18 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 2250 McKendree Road

SUBDIVISION: McKendree Springs

LOT: Par A TAX ID: 04-373502

CONTRACTOR: Earl Preston Jr.

EMAIL: _____

CONTRACTOR ADDRESS: 4045 C Federal Hill Rd, Jarrettsville, MD 21084

PHONE: _____

PROPERTY OWNER: Justin C. Watts and Robin J. Scerati

EMAIL: _____

OWNER ADDRESS: 2250 McKendree Road, West Friendship, MD 21794

PHONE: _____

SEPTIC TANK SIZE (GALLONS): 1500

TANK MANUFACTURER: Babylon Vault or Equivalent

PUMP MODEL: Zoeller BN151

PUMP SIZE

0.3hp

PUMP TANK CAPACITY:

1500

DISTRIBUTION SYSTEM: GRAVITY

PRESSURE DOSED

BEDROOMS: 5

APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>223</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5.5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	The potential for the "fifth" bedroom exists as there is rough-in plumbing for a full bath in the basement. The installation contractors shall select the tank manufacturer and provide a detail of the single-chamber pump tank selected. The pump tank capacity must be either 1250 gallons or 1500 gallons.	

ISSUED BY: Robert Bricker

ISSUE DATE: 6/18/18

EXPIRATION DATE: 6/18/19

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 18001793

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

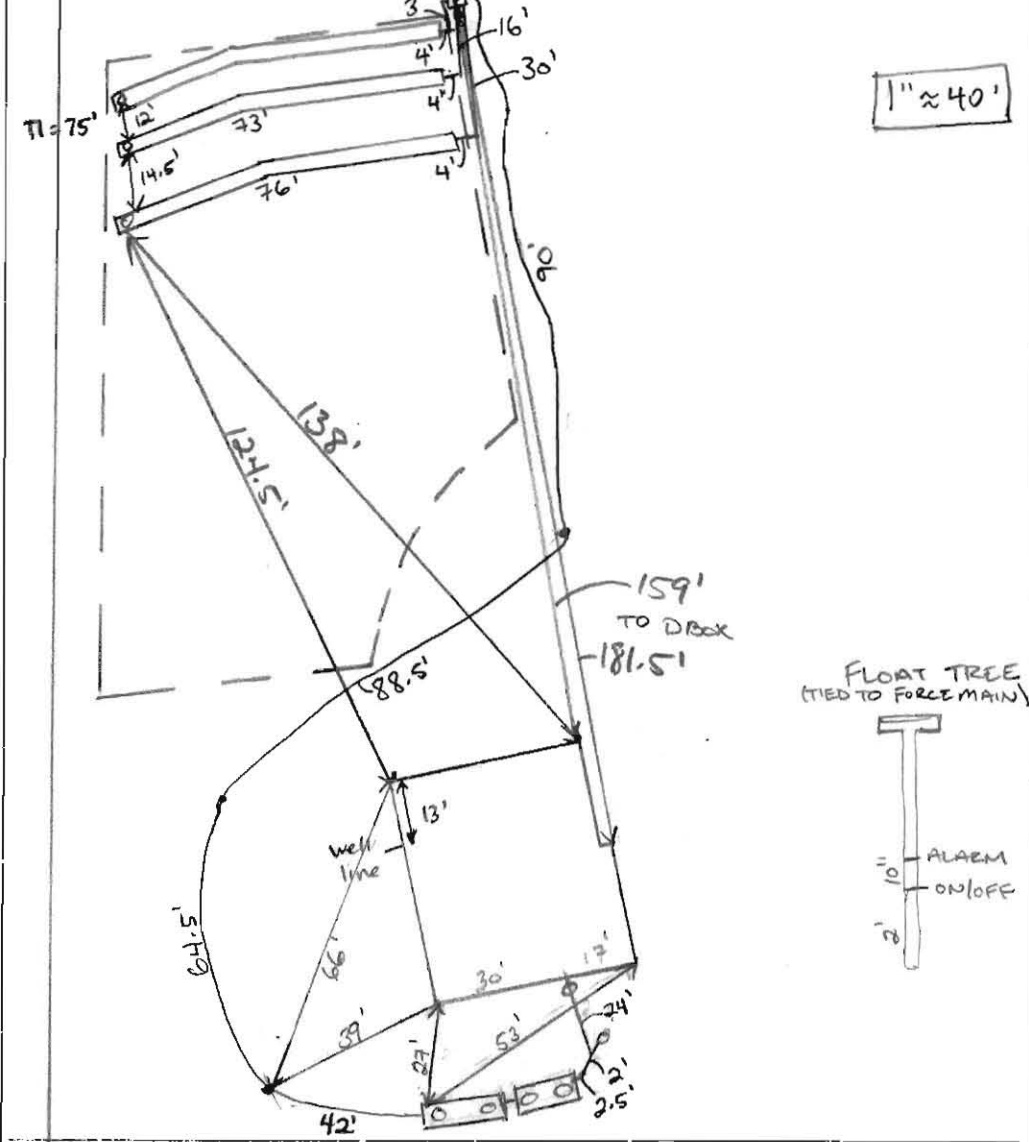
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

H2-95-2032
 ~310' to house

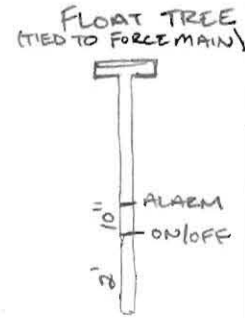
NOT TO SCALE



1" ≈ 40'

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	7'
NUMBER OF TRENCHES		3
TOTAL LENGTH		224'
ABSORPTION AREA		672' + SIDENALL
DISTRIBUTION BOX LEVEL		N/A
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	
MANUFACTURER	BABYLON
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	1.5' - 2'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT/BACK
6" PORT LOC	INLET
WATERTIGHT TEST	N/A
SLOTTED	YES
DATE ON LID	5/28/18
PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	BABYLON
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	1.5' - 2'
BAFFLES	INLET
BAFFLE FILTER	N/A
MANHOLE LOC	FRONT/BACK
6" PORT LOC	N/A
WATERTIGHT TEST	N/A
SLOTTED	N/A
DATE ON LID	05/28/18



ROAD NAME

PRE-CONSTRUCTION:

7/5/18 Met Earl E. Preston, Jr. Contractors on site for layout. Tanks + SDA corners staked. Contractors previously shot contour + laid out 3 x 74' trenches - checked contour + length and trenches are per plan. Dug to 11' at T1 end to check for rock, no hard bottom and only rock ~6.5', removed w/ backhoe. Will install Babylon 1500-gal pump tank.

INSTALLATION:

7/5/18 T1 installed + left open for inspection. 3' wide, 4' inlet. Contractors starting to dig T2 using laser to check depths. OK for force main to go through SE corner of SDA to keep > 10' off well line. 7/6/2018 TANKS SET. SHC INSTALLED. REMAINING TRENCHES INSTALLED REINSPECT D BOX AND FORCE MAIN, P+A. 7/9/2018 INSTALLED FORCE MAIN, D BOX, + TRENCH CONNECTIONS. OK TO BACKFILL 9/27/2018 SEPTIC PUMP ON IN ALARM ON BREAKER 32. WELL BREAKERS 12/10. PUMP CHAMBER HAS CHECK VALVE. CONTRACTOR CONFIRM FORCE MAIN IS BELOW FROST.

FINAL INSPECTOR

[Handwritten Signature]

DATE OF APPROVAL 09/27/2018

FT

Finksburg Dispatch
410-833-4400

Finksburg Sales
410-833-4400

Laurel Sand & Gravel, Inc. T/A
S. W. Barrick & Sons
Finksburg Terminal

FINKSBURG, MARYLAND

Mailing Address: P.O. Box 1504 Laurel, Maryland 20725

TRUCKER'S COPY

FAX
410-833-4909

BILLING INQUIRIES
1-800-762-2294

TICKET #00424584

STATION FT

DATE 07/06/18 TIME 07:37:09

CUSTOMER PREEAR
EARL E. PRESTON JR. INC.
4045-C FEDERAL HILL RD
JARRETTSVILLE, MD 21084

JOB FRED : FREDERICK RD
P.O. # PROJECT #:

TRUCK 1264 LICENSE 3 AXLES
DRIVER: EARL E. PRESTON JR. INC

GROSS	SCALE A	69960 lb	DAILY	1	Tons	21.06
TARE	IN (STORED)	27840 lb	TOTAL	1		21.06
NET		42120 lb	TIME IN	07:37:09	TIME OUT	07:37:09
NET		21.06 t				

HAT'L 0022 : #2 STONE
HAUL ZONE 0000

WEIGHMASTER


Cassidy Lindemann

RECEIVED BY _____

PMB ASSOCIATES, LLC (877) 780-5446 33135604

PP 707

FT

Finksburg Dispatch
410-833-4400

Finksburg Sales
410-833-4400

Laurel Sand & Gravel, Inc. T/A
S. W. Barrick & Sons
Finksburg Terminal

FINKSBURG, MARYLAND

Mailing Address: P.O. Box 1504 Laurel, Maryland 20725

TRUCKER'S COPY

FAX
410-833-4909

BILLING INQUIRIES
1-800-762-2294

TICKET #00424606

STATION FT

DATE 07/06/18 TIME 09:24:18

CUSTOMER PREPAR

EARL E. PRESTON JR. INC.
4045-C FEDERAL HILL RD
JARRETTSVILLE, MD 21084

JOB FRED : FREDERICK RD

P.O. # PROJECT #:

TRUCK 1264 LICENSE

3 AXLES

DRIVER: EARL E. PRESTON JR. INC

GROSS

SCALE A

68680 lb

DAILY

Loads

2

Tons

41.48

TARE IN

(STORED)

27840 lb

TOTAL

2

41.48

NET

40840 lb

TIME IN 09:24:18

TIME OUT 09:24:18

NET

20.42 t

NAT'L 0022 : #2 STONE

HAUL ZONE 0000

WEIGHMASTER


Cassidy Lindemann

RECEIVED BY _____

PMB ASSOCIATES, LLC (877) 790-5446 33135604

PP 7/07



2305 Medford
 1111 Medford Road
 New Windsor, MD 21776
 Phone 410-683-1250



Ticket 305128109

Date	Dispatch	Vehicle MDEP1264 - EARL PRESTON
7/5/2018		Carrier -

Customer No	Order No	Product	PO No	Shipped	Job To Date
933275	00716794	7306 - ASTM #3	CPU	3 LDS (61.68 TON)	114.50 TON

Ship To 933275 - EARL PRESTON JR
 55008-AG:CMD 05 2017 VARIOUS

Job No
 Instruct

	LBS	TONS	Metric
GROSS	68,260	34.13	30.96
TARE	27,740	13.87	12.58
NET	40,520	20.26	18.38

Scale	2	Weigh Master	Sue Herman	StateID#:
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Print time: 2:35 pm

Signature of Receiving Agent

Customer

Martin Marietta Standard Terms and Conditions apply (copy available at Site Office)



WARNING
PRECAUCION

Please refer to the information on the reverse side of this page for important health information on this product.



2305 Medford
 1111 Medford Road
 New Windsor, MD 21776
 Phone 410-683-1250



Ticket 305128063

Date	Dispatch	Vehicle MDEP1264 - EARL PRESTON
7/5/2018		Carrier -

Customer No	Order No	Product	PO No	Shipped	Job To Date
933275	00716794	7306 - ASTM #3	CPU	1 LDS (20.50 TON)	73.32 TON

Ship To 933275 - EARL PRESTON JR
 55008-AG CMD 05 2017 VARIOUS

Job No
 Instruct

	LBS	TONS	Metric
GROSS	68,740	34.37	31 18
TARE	27,740	13.87	12 58
NET	41,000	20.50	18 60

Scale 2	Weigh Master Sue Herman	StateID#:
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Print time: 10:38 am

Signature of Receiving Agent	Customer
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Martin Manetta Standard Terms and Conditions apply (copy available at Site Office)



Lea la información importante para la salud en el reverso

PRECAUCIÓN

Road important health information on reverse.

WARNING



2305 Medford
 1111 Medford Road
 New Windsor, MD 21776
 Phone 410-683-1250



Ticket 305128079

Date	Dispatch	Vehicle MDEP1264 - EARL PRESTON
7/5/2018		Carrier -

Customer No	Order No	Product	PO No	Shipped	Job To Date
933275	00716794	7306 - ASTM #3	CPU	2 LDS (41.42 TON)	94 24 TON

Ship To 933275 - EARL PRESTON JR
 55008-AG CMD 05 2017 VARIOUS

Job No
 Instruct

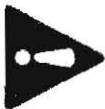
	LBS	TONS	Metric
GROSS	69,580	34.79	31.56
TARE	27,740	13.87	12.58
NET	41,840	20.92	18.98

Scale 2	Wegh Master Sue Herman	StateID#:
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Print time: 12:33 pm

Signature of Receiving Agent	Customer
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Martin Marietta Standard Terms and Conditions apply (copy available at Site Office)



L'absence de cette information peut entraîner des dommages.

PRECAUCIÓN

Raza importantă în cazul informațiilor cu privire la:

WARNING

ALLAN MYERS MATERIALS



5 4 0 1 2 8 3 5 4

Cedar Hill Aggregate
219 Quarry Rd
Peach Bottom, PA 17563
(717) 548-2191

Date: 07/05/18
Time: 01:18 PM

Ticket #: 540128354

Customer: 71792
PRESTON, EARL E JR INC
4045-C FEDERAL HILL ROAD
JARRETTSVILLE, MD 21084
410-557-8100

Job: 7179218MATL
2018 MATERIAL SUPPLY

, PA

Carrier: 99999

P.O.#:
Order: 180705L024G04

NON A/R CASH
Truck: PRE1080
Del: CPU

MACKENZIE RD

Zone: NOZONE
NO ZONE/UNKNOWN

Product: G04-203
AASHTO #3

Loads Today: 1 Amount: 21.04 Tn 19.09 Mg

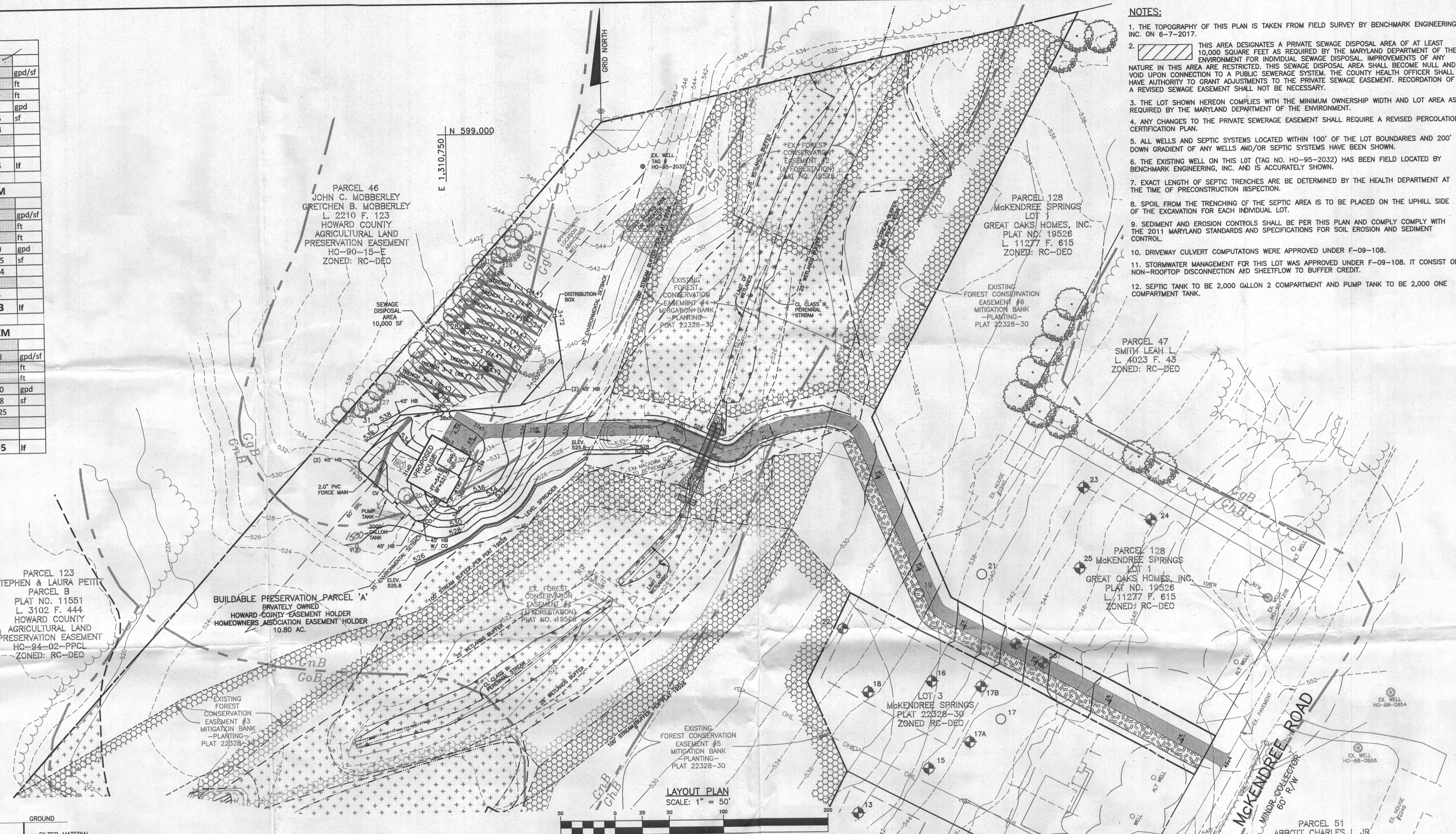
Gross: 34.93 TN 69860 lb 31.69 Mg
Tare: 13.89*TN 27780*lb 12.60*Mg
Net: 21.04 TN 42080 lb 19.09 Mg
GVWR: 73280 LBS

Received By: _____
Weighmaster: Teresa Adams PA:016247 DE:135

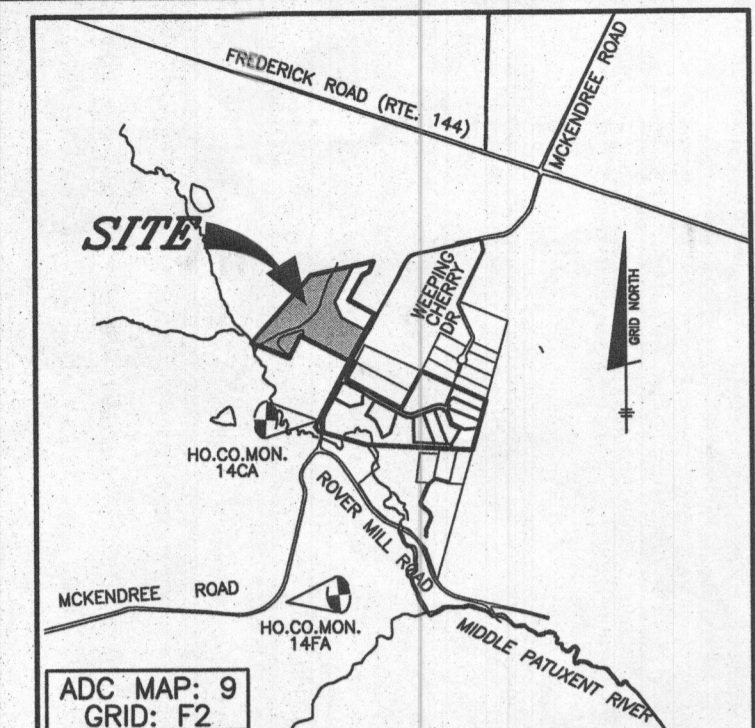
INITIAL SYSTEM		
Number of Bedrooms	5	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	5.5	ft
Bottom Max Depth	7	ft
Design Flow	750	gpd
Drainage Field square footage	937.5	sf
Sidewall reduction credit	0.714	
Trench width	3	
Effective Area Depth	1.5	
Linear Length of trench Required	223	lf

1st REPLACEMENT SYSTEM		
Number of Bedrooms	5	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	5	ft
Bottom Max Depth	6.5	ft
Design Flow	750	gpd
Drainage Field square footage	937.5	sf
Sidewall reduction credit	0.714	
Trench width	3	
Effective Area Depth	1.5	
Linear Length of trench Required	223	lf

2nd REPLACEMENT SYSTEM		
Number of Bedrooms	5	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	6	ft
Bottom Max Depth	8	ft
Design Flow	750	gpd
Drainage Field square footage	938	sf
Sidewall reduction credit	0.625	
Trench width	3	
Effective Area Depth	2	
Linear Length of trench Required	195	lf



- NOTES:**
1. THE TOPOGRAPHY OF THIS PLAN IS TAKEN FROM FIELD SURVEY BY BENCHMARK ENGINEERING, INC. ON 6-7-2017.
 2. 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. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
 3. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
 4. ANY CHANGES TO THE PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 5. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE LOT BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
 6. THE EXISTING WELL ON THIS LOT (TAG NO. HO-95-2032) HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC. AND IS ACCURATELY SHOWN.
 7. EXACT LENGTH OF SEPTIC TRENCHES ARE TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF PRECONSTRUCTION INSPECTION.
 8. SPOIL FROM THE TRENCHING OF THE SEPTIC SYSTEM IS TO BE PLACED ON THE UPHILL SIDE OF THE EXCAVATION FOR EACH INDIVIDUAL LOT.
 9. SEDIMENT AND EROSION CONTROLS SHALL BE PER THIS PLAN AND COMPLY WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 10. DRIVEWAY CULVERT COMPUTATIONS WERE APPROVED UNDER F-09-108.
 11. STORMWATER MANAGEMENT FOR THIS LOT WAS APPROVED UNDER F-09-108. IT CONSISTS OF NON-ROOFTOP DISCONNECTION AND SHEETFLOW TO BUFFER CREDIT.
 12. SEPTIC TANK TO BE 2,000 GALLON 2 COMPARTMENT AND PUMP TANK TO BE 2,000 ONE COMPARTMENT TANK.



VICINITY MAP
SCALE: 1" = 2000'

LEGEND

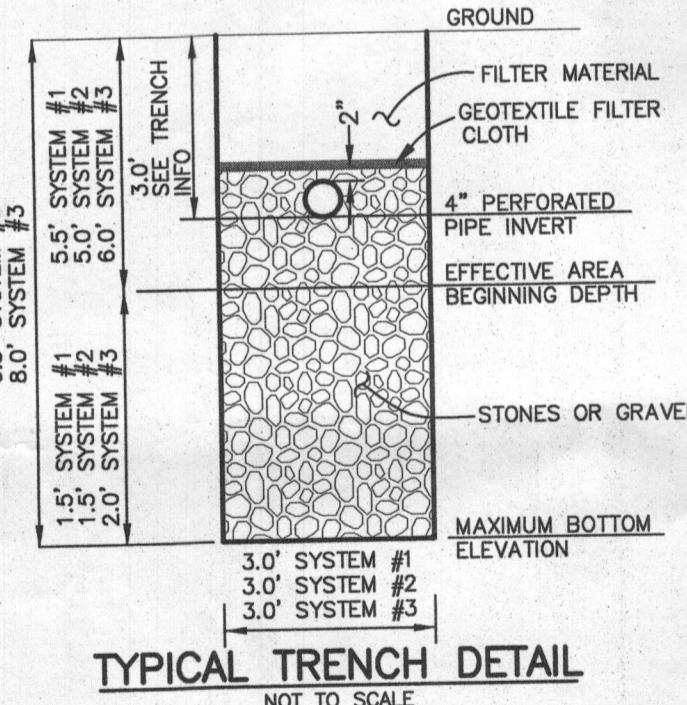
- EXISTING CONTOURS
- SLOPES 25% OR GREATER
- SLOPES 15% TO 24.5%
- EXISTING TREELINE
- LIMIT OF 100-YR FLOODPLAIN
- EXISTING STREAM
- LIMIT OF WETLANDS
- NON-ROOFTOP DISCONNECTION AREA (FILTER STRIP)
- DRAINAGE AREA
- WELL
- SEWAGE DISPOSAL AREA
- FOREST CONSERVATION EASEMENT
- PERC PASS
- PERC FAIL

PARCEL 123
STEPHEN & LAURA PEITZ
PARCEL B
PLAT NO. 11551
L. 3102 F. 444
HOWARD COUNTY
AGRICULTURAL LAND
PRESERVATION EASEMENT
HO-94-02-PPCL
ZONED: RC-DEO

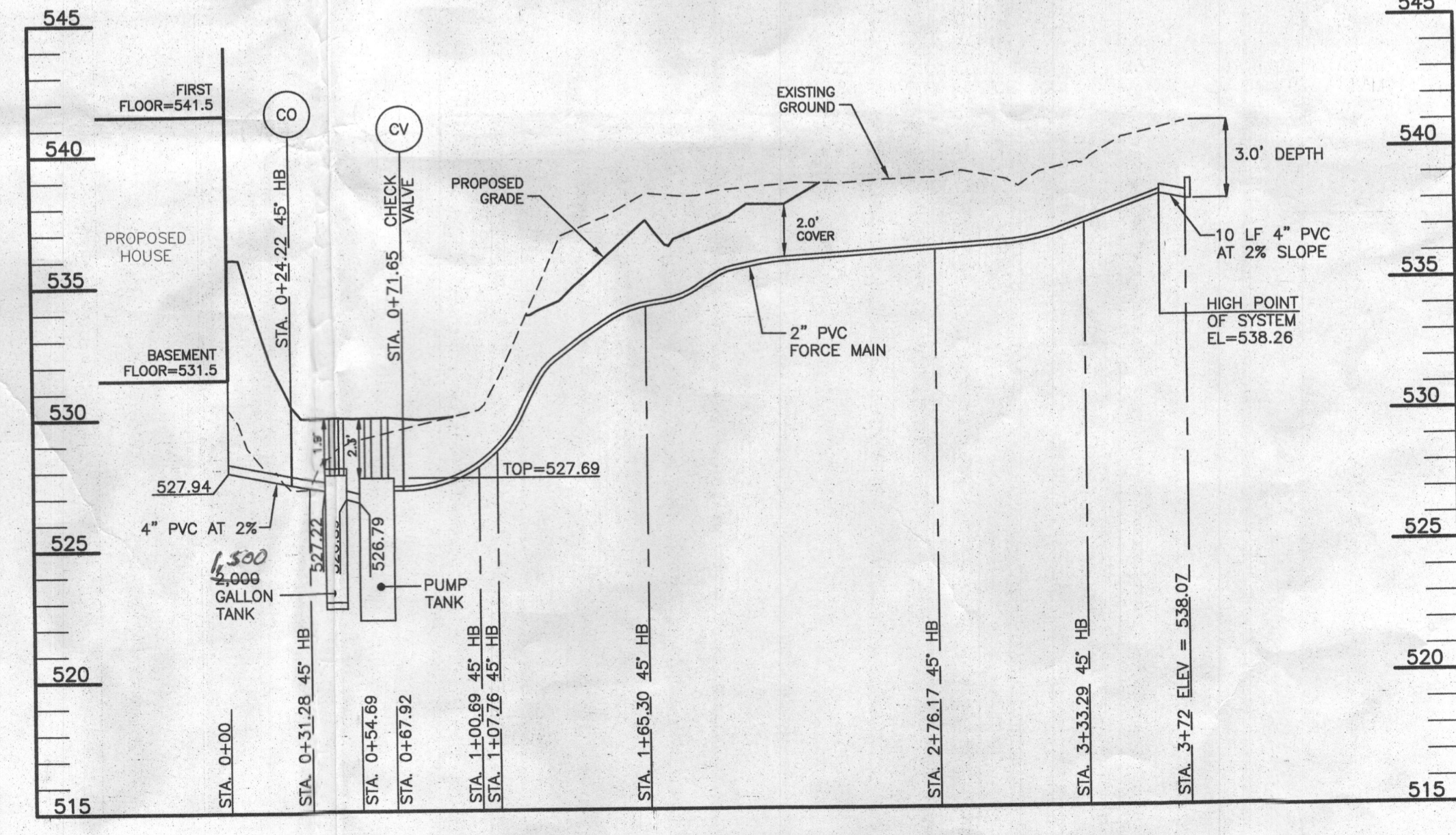
BUILDABLE PRESERVATION PARCEL 'A'
PRIVATELY OWNED
HOWARD COUNTY EASEMENT HOLDER
HOMEOWNERS ASSOCIATION EASEMENT HOLDER
10.80 AC.

PARCEL 128
MCKENDREE SPRINGS
LOT 1
GREAT OAKS HOMES, INC.
PLAT NO. 19526
L. 11277 F. 615
ZONED: RC-DEO

LAYOUT PLAN
SCALE: 1" = 50'
(IN FEET)
1 inch = 50 ft.



TRENCH INFORMATION			
TRENCH 1-1	74.4 LF	TRENCH 2-1	74.4 LF
TRENCH LENGTH	74.4 LF	TRENCH LENGTH	74.4 LF
GROUND ELEVATION	541.6	GROUND ELEVATION	540.5
INVERT ELEVATION	538.1	INVERT ELEVATION	537.5
MAX. BOTTOM ELEV.	534.6	MAX. BOTTOM ELEV.	534.0
TRENCH 1-2	74.4 LF	TRENCH 2-2	74.4 LF
TRENCH LENGTH	74.4 LF	TRENCH LENGTH	74.4 LF
GROUND ELEVATION	541.1	GROUND ELEVATION	540.1
INVERT ELEVATION	537.6	INVERT ELEVATION	537.1
MAX. BOTTOM ELEV.	534.1	MAX. BOTTOM ELEV.	533.6
TRENCH 1-3	74.4 LF	TRENCH 2-3	74.4 LF
TRENCH LENGTH	74.4 LF	TRENCH LENGTH	74.4 LF
GROUND ELEVATION	540.6	GROUND ELEVATION	539.8
INVERT ELEVATION	537.1	INVERT ELEVATION	536.8
MAX. BOTTOM ELEV.	533.6	MAX. BOTTOM ELEV.	533.3
TRENCH 3-1	65.1 LF	TRENCH 3-2	65.1 LF
TRENCH LENGTH	65.1 LF	TRENCH LENGTH	65.1 LF
GROUND ELEVATION	539.4	GROUND ELEVATION	539.2
INVERT ELEVATION	536.4	INVERT ELEVATION	536.2
MAX. BOTTOM ELEV.	531.4	MAX. BOTTOM ELEV.	531.2
TRENCH 3-3	65.1 LF	TRENCH 3-3	65.1 LF
TRENCH LENGTH	65.1 LF	TRENCH LENGTH	65.1 LF
GROUND ELEVATION	539.1	GROUND ELEVATION	539.1
INVERT ELEVATION	536.1	INVERT ELEVATION	536.1
MAX. BOTTOM ELEV.	531.1	MAX. BOTTOM ELEV.	531.1



Septic Profile
SCALE: 1"=50' HORIZ., 1"=5' VERT.

Approved Septic System Plan
Howard County Health Department
1500-gal Septic Tank &
2000-gal Pump Tank
w/ 1/2-hp Pump
R. Bueker
12/16/2017
Date

BENCHMARK ENGINEERING, INC.
ENGINEERS LAND SURVEYORS PLANNERS
8480 BALTIMORE NATIONAL PIKE SUITE 315 & ELLICOTT CITY, MARYLAND 21043
(P) 410-465-8100 (F) 410-465-8644
WWW.BE-ENR.COM

Professional Certification. 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. 45574, Expiration Date: 06-08-2018.

THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF ANY WORK.

THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.

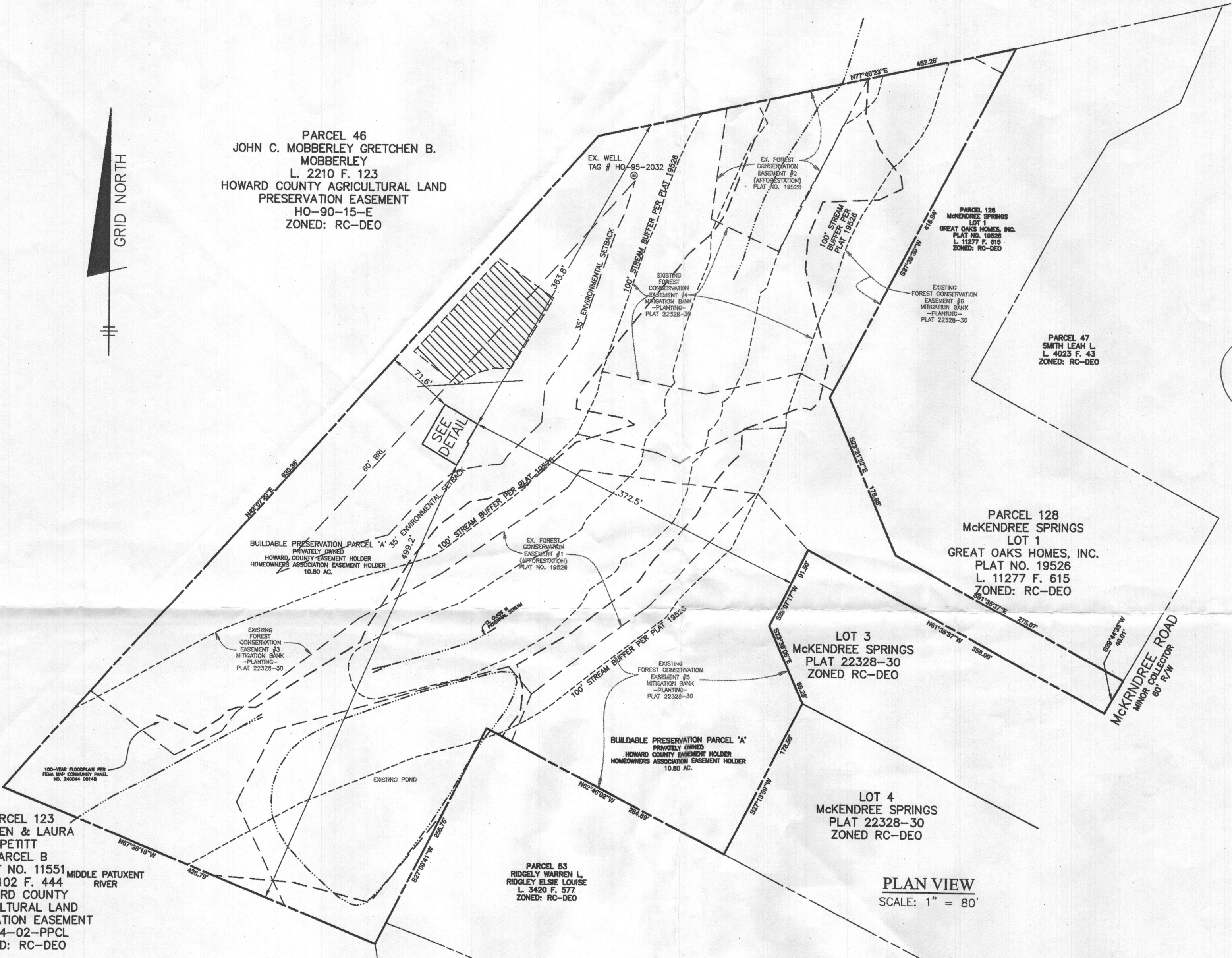
SOILS LEGEND			
SYMBOL	CLASS	NAME	k VALUE
GhB	B	GLENELG-URBAN LAND COMPLEX, 0 TO 8% SLOPES	0.20
GhB*	C	GLENVALE-BAILE SILT LOAMS, 0 TO 8% SLOPES	0.37/0.32
GoB	C	GLENVILLE-CODORUS SILT LOAMS, 0 TO 3% SLOPES	0.20
GcB	B	GLENELG LOAM, 8 TO 15% SLOPES	0.20
GpB	B	GLENELG LOAM, 3 TO 8% SLOPES	0.20
Ho*	B/D	HATBORO-CODORUS SILT LOAMS, 0 TO 3% SLOPES	0.37

* INDICATES HYDRIC SOILS
SOILS TAKEN FROM MAP 7 OF "SOIL SURVEY HOWARD COUNTY, MARYLAND" ISSUED JULY, 1968

OWNER/DEVELOPERS: MCKENDREE ASSOCIATES LLC 6519 RING DANCER DRIVE MT. AIRY, MARYLAND 21771	PROJECT: MCKENDREE SPRINGS BUILDABLE PRESERVATION PARCEL 'A' Tax ID # CA-373502
BUILDER: ENVISION BUILDERS LLC 7939 HONEYGO BLVD. SUITE 112 NOTTINGHAM, MD 21236	LOCATION: 2250 MCKENDREE ROAD TAX MAP: 14 GRID: 6 PARCEL: 128 ELECTION DISTRICT NO. 4 - HOWARD COUNTY, MARYLAND
TITLE: SEPTIC PERMIT PLAN	
DATE: DECEMBER, 2017	PROJECT NO. 2837
DESIGN: LDD	DRAFT: LDD
CHECK: DT	SCALE: AS SHOWN
SHEET 1 OF 2	

GRID NORTH

PARCEL 46
 JOHN C. MOBBERLEY GRETCHEN B. MOBBERLEY
 L. 2210 F. 123
 HOWARD COUNTY AGRICULTURAL LAND PRESERVATION EASEMENT
 HO-90-15-E
 ZONED: RC-DEO



Wall Check
 Approved
 6/18/18 SC

PARCEL 123
 STEPHEN & LAURA PETITT
 PARCEL B
 PLAT NO. 11551
 L. 3102 F. 444
 HOWARD COUNTY AGRICULTURAL LAND PRESERVATION EASEMENT
 HO-94-02-PPCL
 ZONED: RC-DEO

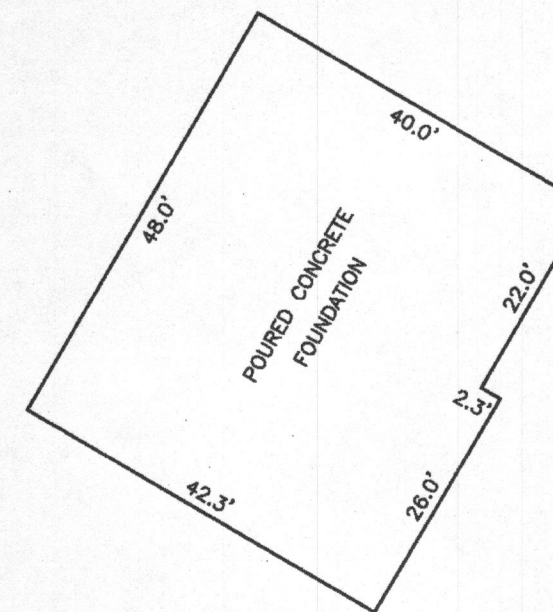
PARCEL 53
 RIDGELY WARREN L. RIDGELY ELSE LOUISE
 L. 3420 F. 577
 ZONED: RC-DEO

PARCEL 128
 MCKENDREE SPRINGS LOT 1
 GREAT OAKS HOMES, INC.
 PLAT NO. 19526
 L. 11277 F. 615
 ZONED: RC-DEO

LOT 3
 MCKENDREE SPRINGS
 PLAT 22328-30
 ZONED RC-DEO

LOT 4
 MCKENDREE SPRINGS
 PLAT 22328-30
 ZONED RC-DEO

PLAN VIEW
 SCALE: 1" = 80'



FOUNDATION DETAIL
 SCALE: 1" = 20'

BENCHMARK
 ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.
 8480 BALTIMORE NATIONAL PIKE & SUITE 315 & ELICOTT CITY, MARYLAND 21043
 (P) 410-465-6105 (F) 410-465-6644
 WWW.BEI-CIVILENGINEERING.COM

SURVEYOR'S CERTIFICATE
 I HEREBY CERTIFY THAT THESE DOCUMENTS, WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21320, EXPIRATION DATE 1-7-2019 AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF, THE DIMENSIONS OF THE BUILDING WALLS SHOWN HEREON ARE CORRECT; THAT THEY ARE BASED ON A RECENT SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. ON 03/15/2018.

Donald A. Mason
 DONALD A. MASON
 PROFESSIONAL LAND SURVEYOR
 MARYLAND REG. No. 21320

TOP OF FOUNDATION WALL = 539.4'
 OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

FEMA FIRM No. 24027C0045D
 ZONE: X
 DATED: 11/6/2013

FIELD OBS. BY DH
 COMP. BY EWF
 DRAWN BY EWF

WALL CHECK
MCKENDREE SPRINGS
LOTS 3 & 4
PLAT No.'s 22328-22330
PARCEL 'A'
 2250 MCKENDREE ROAD
 4TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: 1" = 80' DATE: 03/15/2018



Bureau of Environmental Health

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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 2250 Mckendree Rd.

Subdivision: Mckendree Springs Lot: Pres. Par. A

Initial system: Application rate: 0.8 Effective area beginning depth: 5 1/2 Bottom maximum depth: 7
1st Replacement: Application rate: 0.8 Effective area beginning depth: 5.6 Bottom maximum depth: 6 1/2
2nd Replacement: Application rate: 0.8 Effective area beginning depth: 6 Bottom maximum depth: 8

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:

(W + 2) / (W + 1 + 2D) x 100 = Percent of length of standard trench where W=trench width and D= 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: Hank Oswald Date: 10/25/17