

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.orgFacebook: www.facebook.com/hocohealth

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

RECEIPT DATE: 9-30-21 **ONSITE SEWAGE DISPOSAL SYSTEM**P 570182APPROVAL DATE: 12/20/2021 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 15604 LINDEN GROVE LANE, WOODBINE, MD 21797SUBDIVISION: LINDEN GROVE, PHASE 1LOT: 23

TAX ID:

04-601902CONTRACTOR: CHAVIS ENTERPRISES & SEPTIC SERVICES, LLCEMAIL: ryan@chavisenterprisesllc.comCONTRACTOR ADDRESS: 23 EAST ELLENDALE, BEL AIR, MD 21014PHONE: (410)838-3007PROPERTY OWNER: TOLL MID-ATLANTIC LP COMPANY, INCEMAIL: Sriley1@tollbrothers.comOWNER ADDRESS: 250 GIBRALTER ROAD, HORSHAM, PA 19044PHONE: (410)381-3271SEPTIC TANK SIZE (GALLONS): 2000TANK MANUFACTURER: Back River Pre-Cast, LLCPUMP MODEL: n.a.

PUMP SIZE

n.a.PUMP TANK CAPACITY: n.a.DISTRIBUTION SYSTEM: ☒ GRAVITY☐ PRESSURE DOSEDBEDROOMS: 6APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>78</u>	INLET DEPTH: <u>2.0</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>15</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>2.0</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 ENTIRE LENGTH OF TRENCH WITHIN SDA. SET DISTRIBUTION BOX NEAR BEGINNING OF TRENCH INSTALL AT LEAST 2 CLEANOUTS IN SHC.	

ISSUED BY: R BRICKERISSUE DATE: 10-7-21EXPIRATION DATE: 9-30-21

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 DOWNGRAIENT 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

* see
attached

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH 3' INLET 2' BOTTOM 8'
NUMBER OF TRENCHES 1
TOTAL LENGTH 78'
ABSORPTION AREA 234 sq ft + sidewalk
DISTRIBUTION BOX LEVEL N/A
DISTRIBUTION BOX BAFFLE cement
DISTRIBUTION BOX PORT PVC

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL yes
MANUFACTURER Babylon
CAPACITY 2000 GAL
SEAM LOC top
TANK LID DEPTH 1'
BAFFLES YES
BAFFLE FILTER -
MANHOLE LOC inlet/outlet
6" PORT LOC -
WATERTIGHT TEST -
SLOTTED YES
DATE ON LID 11-11-21

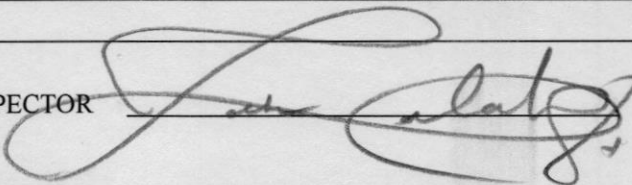
PUMP/SEPTIC TANK LEVEL _____
MANUFACTURER _____
CAPACITY _____ GAL
SEAM LOC _____
TANK LID DEPTH _____
BAFFLES _____
BAFFLE FILTER _____
MANHOLE LOC _____
6" PORT LOC _____
WATERTIGHT TEST _____
SLOTTED _____
DATE ON LID _____

PRE-CONSTRUCTION:

12/14/21 1x78' staked out on contour. Moved trench closer to d-box to keep it within SDA, as per edits on OSDs. (ST)

INSTALLATION: 12/16/21 SHC and SK constructed. Tank set and d-box set. 1x78' trench installed. Re insp for baffles and d-box baffle. (ST) 12/17/21 D-box cement baffle added. Re insp for tank baffles. (ST) 12/20/2021 BAFFLE INSTALLED. (ST)

FINAL INSPECTOR

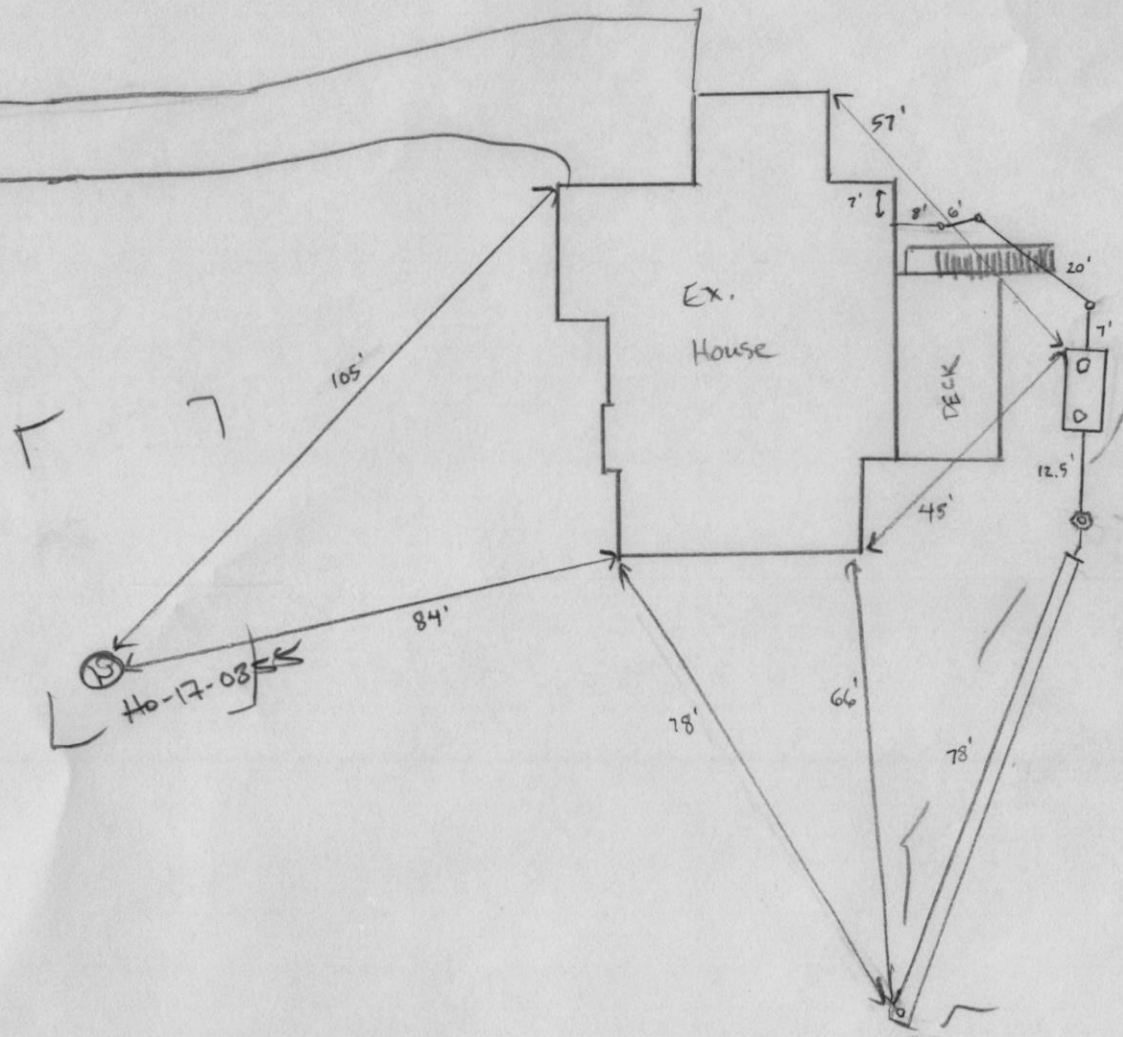


DATE OF APPROVAL

12/20/2021

NOT TO SCALE -1.30

LINDEN GROVE LANE



HOUSE OPTIONS:

HOUSE TYPE: DUMONT (CRAFTSMAN)

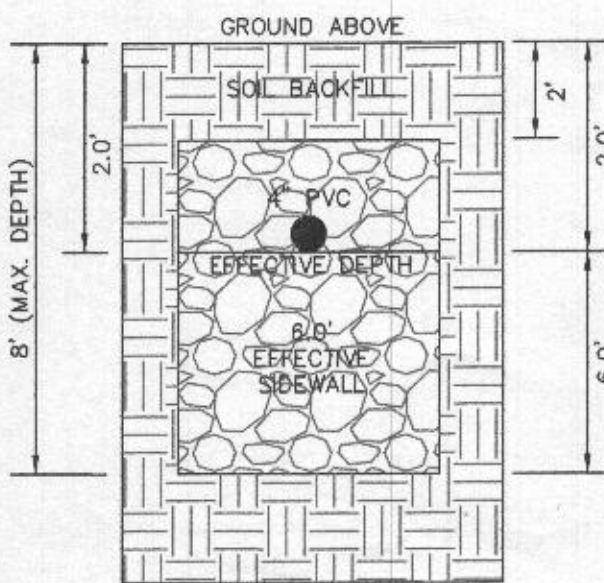
2 CAR SIDE ENTRY GARAGE
FINISHED LOWER LEVEL
WALK-OUT BASEMENT
ADDITIONAL WALK-IN CLOSET
ADD'L 1' TO BSMT FOUNDATION WALLS
ADDITIONAL ONE CAR FRONT ENTRY GARAGE
WALK-OUT LUXURY COVERED DECK
OPTIONAL BATH FOR FINISHED LOWER LEVEL

OPTION No. 012
OPTION No. 013
OPTION No. 017
OPTION No. 030
OPTION No. 070
OPTION No. 263102
OPTION No. 263169
OPTION No. 383

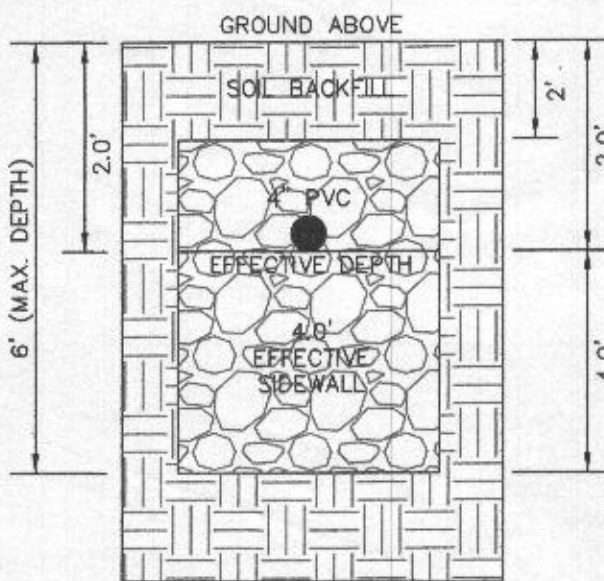
INITIAL TRENCH DATA

BOTTOM MAX. DEPTH (8.0')

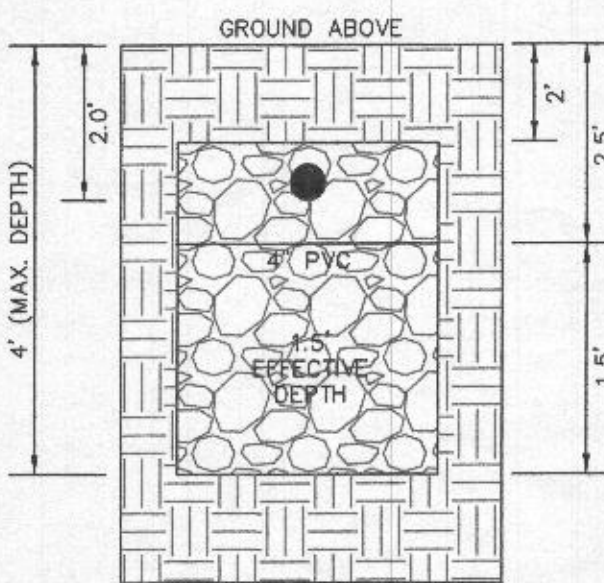
TRENCH 1 (T1): 86.00 LF
GROUND ABOVE = 541.9'
INV. IN = 539.9'
BOTTOM TRENCH = 533.9'



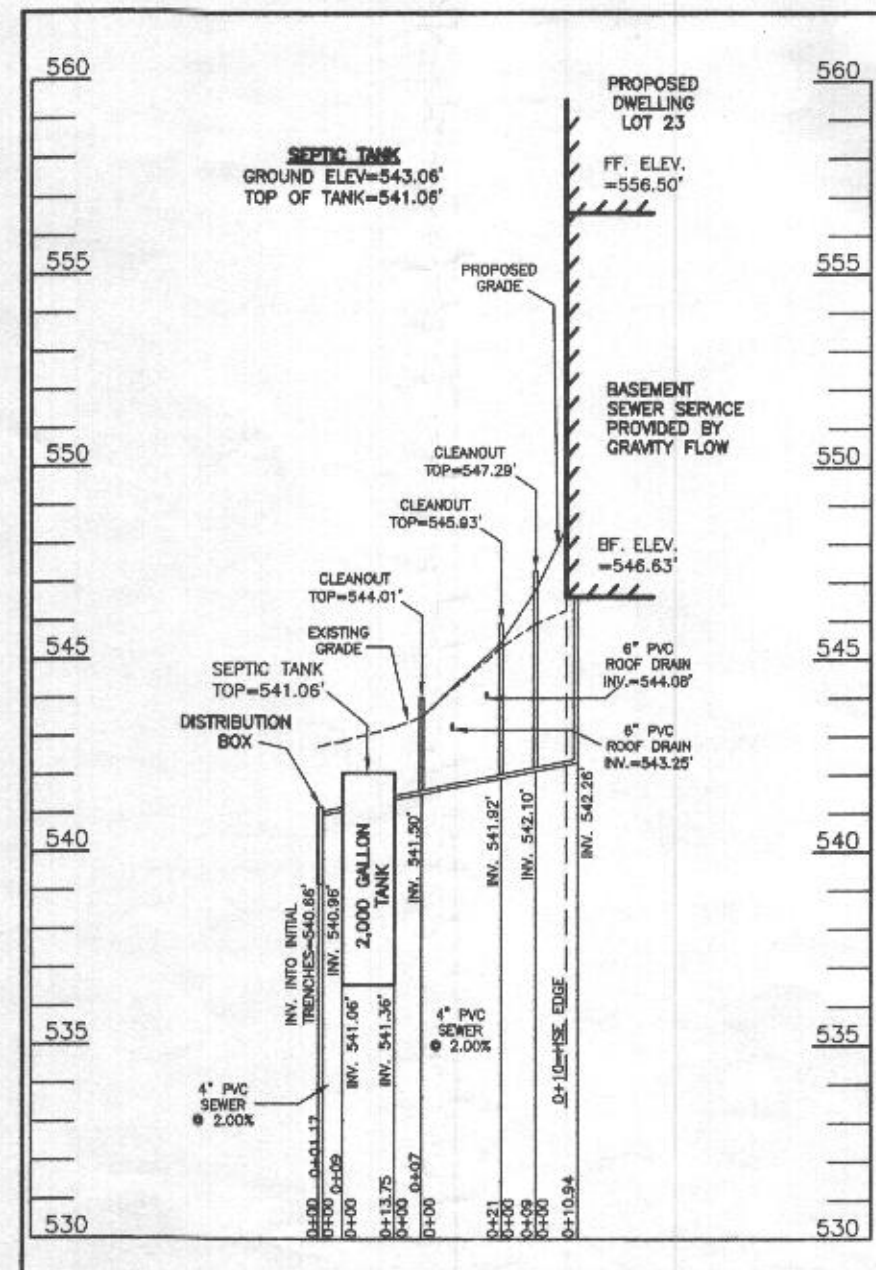
INITIAL SYSTEM
TRENCH DETAIL (T1)
(NOT TO SCALE)



1ST REPLACEMENT SYSTEM
TRENCH DETAIL (T2) AND (T3)
(NOT TO SCALE)



2ND REPLACEMENT SYSTEM
TRENCH DETAIL (T4) THRU (T7)
(NOT TO SCALE)



SEPTIC SYSTEM PROFILE
SCALE = HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

LEGEND:

BRL BUILDING RESTRICTION LINE
W.W. WELL LOCATION
T.W. TOP OF WALL
G.F. GARAGE FLOOR
B.F. BASEMENT FLOOR
PASSED PERC LOCATION
FAILED PERC LOCATION
SEPTIC RESERVE AREA
WELL BOX AREA
PROPOSED TREE
PROPOSED TREE

SEWAGE DISPOSAL SYSTEM DATA (6 BDRM)

- PROPOSED INVERT AT FOUNDATION WALL: 542.26'
- EX. GRADE OVER TANK: 543.06'
PROPOSED GRADE OVER TANK: 542.06'
INVERT IN: 541.36' INVERT OUT: 541.06'
 - DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 542.77'
PROPOSED GRADE OVER TANK: 542.77'
INVERT IN: 540.96' INVERT OUT: 540.66'
 - INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD + 1.2 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 72" GRAVEL BELOW PIPE
15' MIN. SPACING BETWEEN TRENCH EDGES
750 SF + 3' WIDTH = 250 LF x 0.31 (SIDEWALL REDUCTION) = 77.50 LF MIN.
USE 1 77.50' LONG TRENCHES = 77.50 LF
 - 1ST REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD + 0.8 APP. RATE = 1,125 SF
USE 3' WIDE TRENCH WITH 48" GRAVEL BELOW PIPE
11' MIN. SPACING BETWEEN TRENCH EDGES
1,125 SF + 3' WIDTH = 375 LF x 0.42 (SIDEWALL REDUCTION) = 157.50 LF MIN.
USE 2 78.75' LONG TRENCHES = 157.50 LF
 - 2ND REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD + 0.8 APP. RATE = 1,125 SF
USE 3' WIDE TRENCH WITH 24" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
1,125 SF + 3' WIDTH = 375 LF x 0.71 (SIDEWALL REDUCTION) = 266.25 LF MIN.
USE 4 66.60' LONG TRENCH = 266.40 LF



Approved Septic System Plan
Howard County Health Department
2000 gal Septic tank
To Gravity Distribution for 6-bedroom SFD
Signature: R. Bickel Date: 3/22/2021

SOILS LEGEND

SOIL	NAME	CLASS	Kw
BrD	BRINKLOW CHANNERY LOAM, 15 TO 25 PERCENT SLOPES	B	.20
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	.20
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	.20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	.20
*GmA	GLENVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES	C	.37
*GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	.37
*GnC	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	.37
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	.24

NOTES:
* HYDRIC SOILS AND / OR CONTAINS HYDRIC INCLUSIONS
** MAY CONTAIN HYDRIC INCLUSIONS
*** DENOTES ERODIBLE SOILS

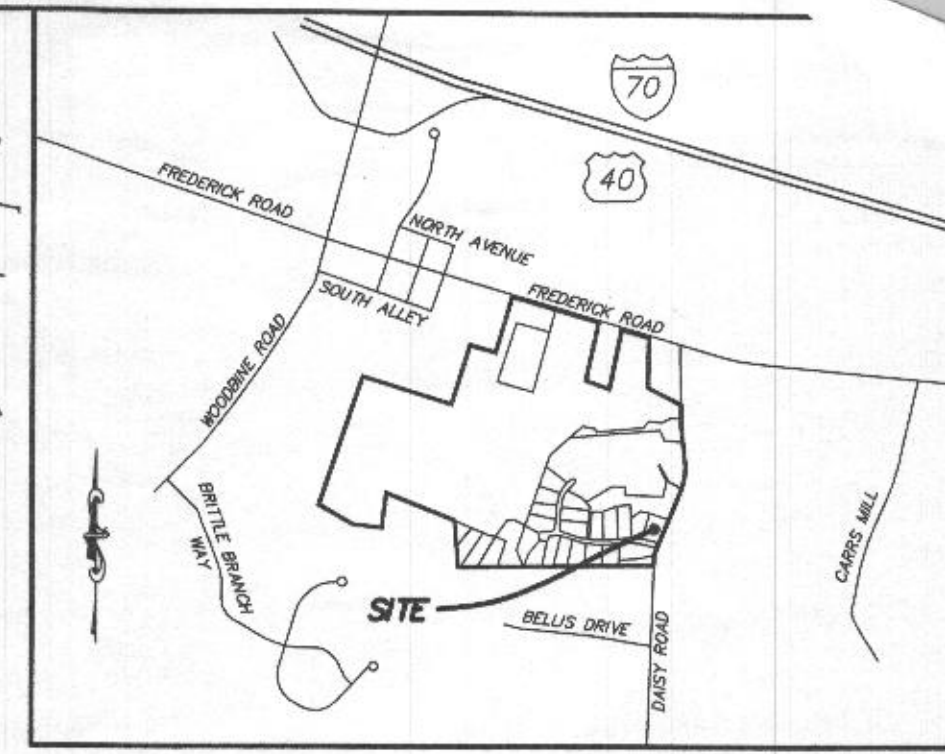
WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 23 (TAG NO. HO-17-0355) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 23
LINDEN GROVE
LIBER 15899, FOLIO 246
PLAT NO. 25070
ELECTION DISTRICT No. 4
HOWARD COUNTY, MARYLAND
ADDRESS: 15604 LINDEN GROVE LANE
WOODBINE, MARYLAND 21797

ESE CONSULTANTS
ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL
ESE Consultants, Inc.
7164 Columbia Gateway Drive • Suite 230 • Columbia, MD 21046
T: 410-872-9105

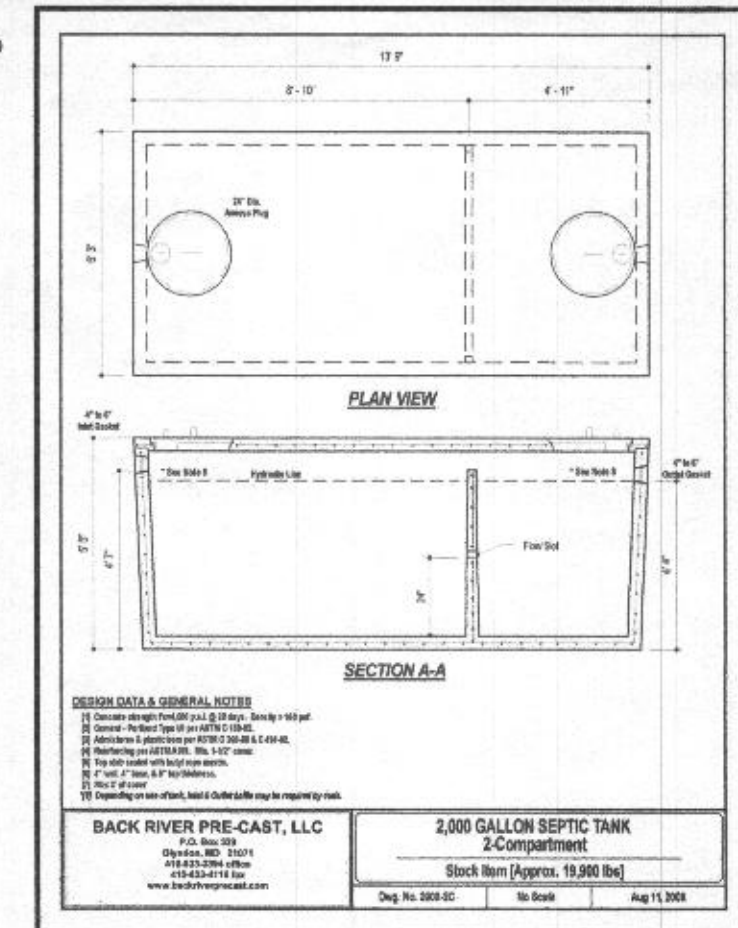
DATE: 02/25/2021 SCALE: 1"= 30' FILE: OSDS LOT 23
CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.



VICINITY MAP
1" = 1000'

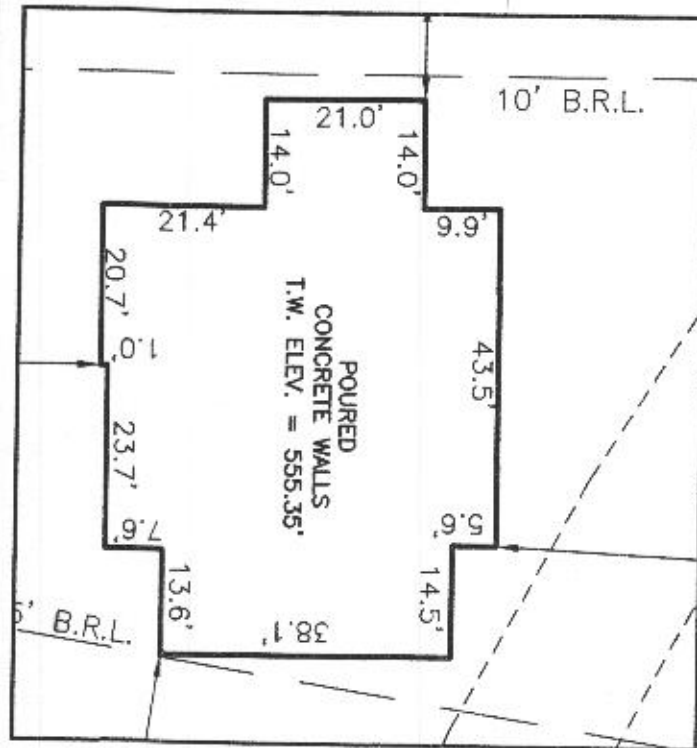
GENERAL NOTES:

- THESE AREAS DESIGNATE A PRIVATE SEWAGE 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 UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS UNTO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
- 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 PERCOLATION CERTIFICATION PLAN.
- BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.
- ANY CHANGES TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM EARTH COVER OVER THE TANK IS THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM HOWARD COUNTY GIS, 2' CONTOUR INTERVAL AND FIELD VERIFIED BY FISHER, COLLINS AND CARTER, INC.



LEGEND:

- BRL BUILDING RESTRICTION LINE
W WELL LOCATION
T.W. TOP OF WALL
SEPTIC RESERVE AREA
WELL BOX AREA



HOUSE ENLARGEMENT
NOT TO SCALE

WELL NUMBER: HO-17-0355
ADDRESS: 15604 LINDEN GROVE LANE
WOODBINE, MD 21797
PERMIT No.: B21000794

BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPEMENT PLAN
SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.

SURVEYOR'S CERTIFICATE

THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHT-OF-WAYS, 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.

SIGNATURE: MICHAEL JOE BOYCE 21328
MD. LIC NO.

09/21/21
DATE

WALLCHECK
LOT 23
LINDEN GROVE
LIBER 1619, FOLIO 341
PLAT NO. 25070
ELECTION DISTRICT No. 4
HOWARD COUNTY, MARYLAND

ESE CONSULTANTS

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ESE Consultants, Inc.
7164 Columbia Gateway Drive • Suite 230 • Columbia, MD 21046
T: 410-872-9105

DATE: 09/21/2021
CHK'D: M.J.B.

SCALE: 1" = 40'
JOB NO: 4683

FILE: WC LOT 23
DRAWN: V.X.P.

