



Howard County
Health Department

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

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

RECEIPT DATE: 5-25-21 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 569.525

APPROVAL DATE: 8/17/21 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 15609 LINDEN GROVE LANE, WOODBINE, MD 21797

SUBDIVISION: LINDEN GROVE, PHASE 1

LOT: 2

TAX ID:

04-601881

CONTRACTOR: Charles Enterprises, LLC

EMAIL:

Sederick@charlesenterprisesllc.com

CONTRACTOR ADDRESS: 23 East Elkendale St, Bel Air, MD 21014

PHONE:

410-551-2455

PROPERTY OWNER: TOLL MID-ATLANTIC LP COMPANY, INC

EMAIL:

Sriley1@tollbrothers.com

OWNER ADDRESS: 250 GIBRALTER ROAD, HORSHAM, PA 19044

PHONE:

(410)381-3271

SEPTIC TANK SIZE (GALLONS): 2000

TANK MANUFACTURER:

Back River Pre-Cast, LLC

PUMP MODEL: n.a.

PUMP SIZE

n.a.

PUMP TANK CAPACITY:

n.a.

DISTRIBUTION SYSTEM: ☒ GRAVITY

☐ PRESSURE DOSED

BEDROOMS: 6

APPLICATION RATE: 0.6

TRENCHES:	LINEAR FEET REQUIRED: <u>208</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>12</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5.0</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 CLEANOUT IN SHC.	

ISSUED BY: R BRICKER

ISSUE DATE:

8/25/21 EXPIRATION DATE: 5-25-22

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 DOWNGRADE 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
diagram

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	2.5'	8'
NUMBER OF TRENCHES		3'
TOTAL LENGTH		210 F
ABSORPTION AREA		630 SF + 3' SIDE WALL
DISTRIBUTION BOX LEVEL		SPEED
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL YES
MANUFACTURER Backriver
CAPACITY 2000 GAL
SEAM LOC top
TANK LID DEPTH 3'
BAFFLES outlet
BAFFLE FILTER -
MANHOLE LOC inlet + outlet
6" PORT LOC -
WATERTIGHT TEST -
SLOTTED yes
DATE ON LID 5-26-21

PUMP/SEPTIC TANK LEVEL

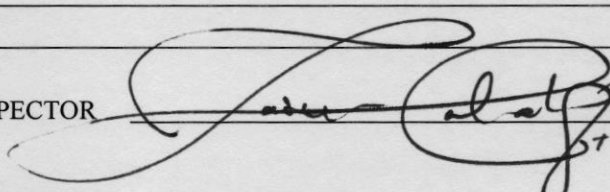
MANUFACTURER _____
CAPACITY _____ GAL
SEAM LOC _____
TANK LID DEPTH _____
BAFFLES _____
BAFFLE FILTER _____
MANHOLE LOC _____
6" PORT LOC _____
WATERTIGHT TEST _____
SLOTTED _____
DATE ON LID _____

PRE-CONSTRUCTION:

07/20/2021 LAYOUT OK. STRAIGHTENED TRENCHES OK TO START. (P)

INSTALLATION: 8/13/21 SHC, St constructed. Tank and d-box set. Re-insp for inlet
baffle. (P) 08/17/2021 TRENCHES COMPLETE, P BOX LEVELED WITH SPEED LEVELS. (P)

FINAL INSPECTOR

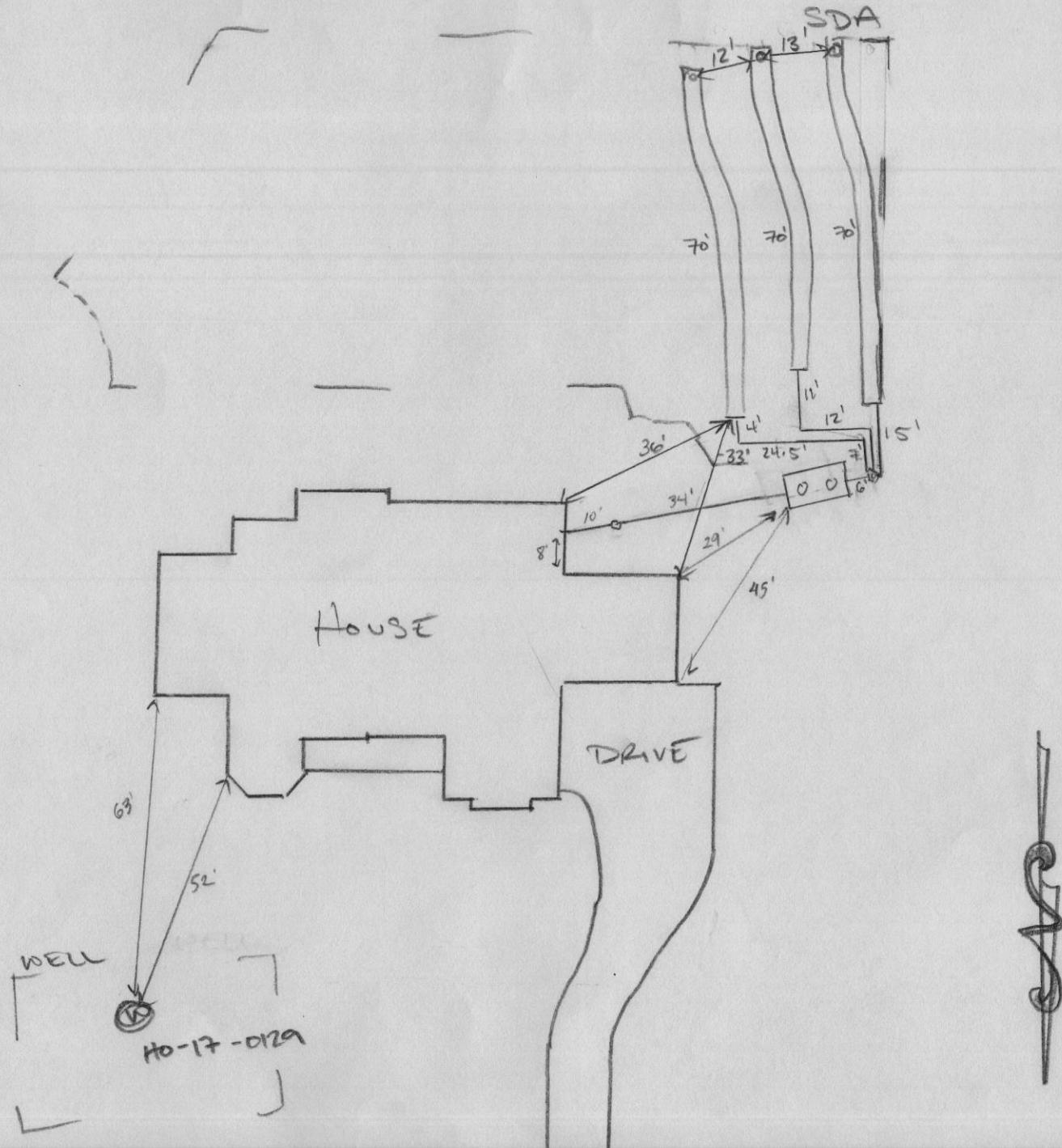


DATE OF APPROVAL

08/17/2021

NOT TO SCALE

21.30



15609 LINDEN GROVE LANE

HOUSE OPTIONS:

HOUSE TYPE: RIDGEVIEW (LEXINGTON)

WALK-OUT BASEMENT
CONSERVATORY ELITE ADDITION
ADD'L 1" TO BSMT FOUNDATION WALLS
ADDITIONAL TWO CAR FRONT ENTRY GARAGE
OPTIONAL DROP ZONE WITH CABINETRY
ADDITIONAL BATH
ADDITIONAL POWDER ROOM
SLIDER ON THE REAR WALL OF GREAT ROOM
ADD MET BAR ROUGH IN TO BE LOCATED IN LOWER LEVEL
MASTER BEDROOM REMOVE SITTING ROOM WALL AND EXPAND TRAY CEILING
CONSTRUCTION NOTE: SEE DIAGRAM FOR WINDOWS IN THE LOWER LEVEL. RELOCATION OF STANDARD SLIDER WINDOWS

OPTION NO. 017
OPTION NO. 039
OPTION NO. 070
OPTION NO. 263019
OPTION NO. 263082
OPTION NO. 367
OPTION NO. 377
OPTION NO. 90002015
OPTION NO. 90002016
OPTION NO. 90002018
OPTION NO. 90002019

INITIAL TRENCH DATA:

BOTTOM MAX. DEPTH (8')

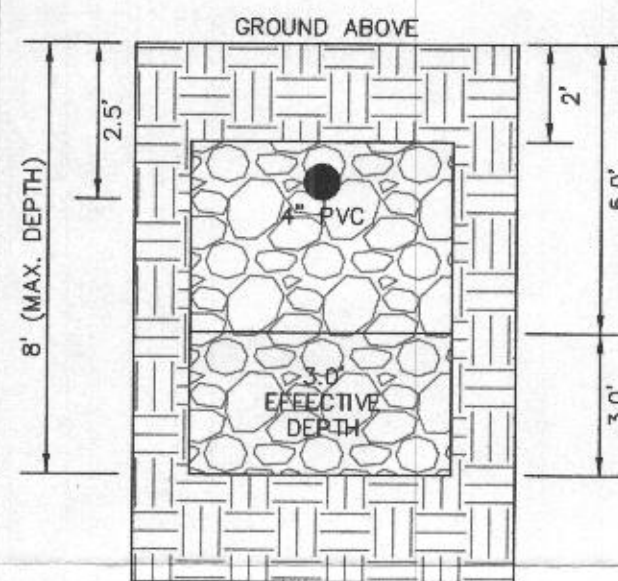
TRENCH 1 (T1): 69.50 LF
GROUND ABOVE = 554.30'
INV. IN = 551.80'
BOTTOM TRENCH = 564.30'

TRENCH 2 (T2): 69.50 LF
GROUND ABOVE = 553.50'
INV. IN = 551.00'
BOTTOM TRENCH = 545.50'

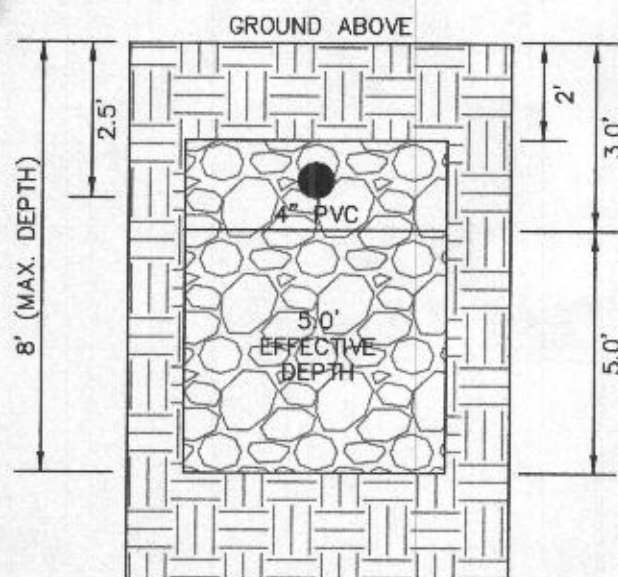
TRENCH 3 (T3): 69.50 LF
GROUND ABOVE = 552.70'
INV. IN = 550.20'
BOTTOM TRENCH = 544.70'

LEGEND:

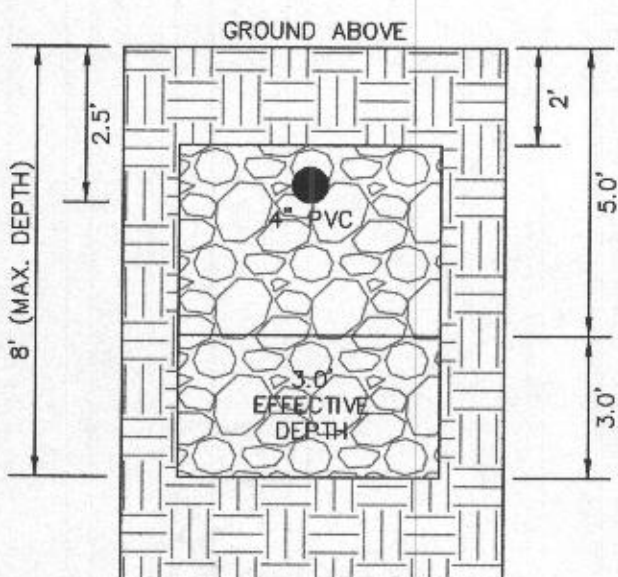
BRL BUILDING RESTRICTION LINE
WELL LOCATION
TOP OF WALL
GARAGE FLOOR
BASEMENT FLOOR
PASSED PERC LOCATION
FAILED PERC LOCATION
SEPTIC RESERVE AREA
WELL BOX AREA
PROPOSED TREE
PROPOSED TREE
PROPOSED TREE



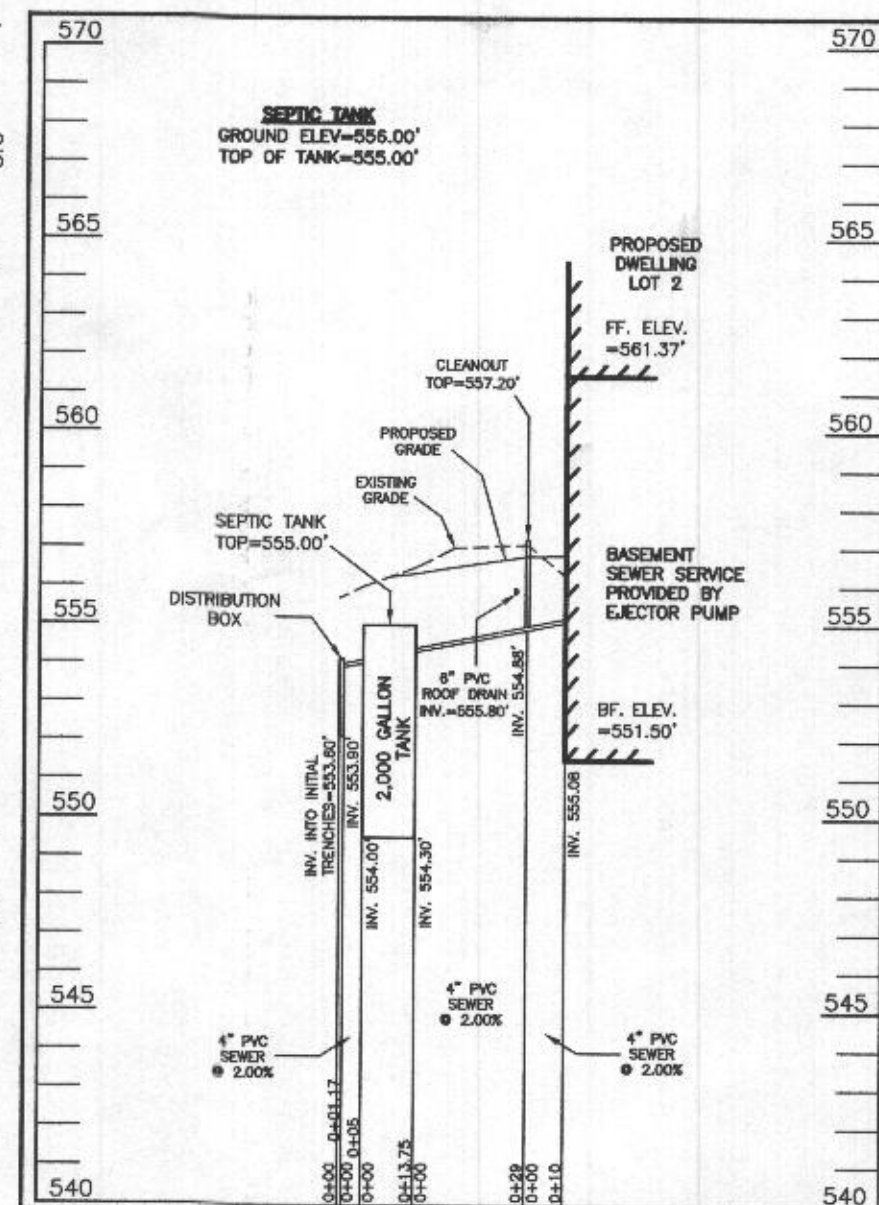
INITIAL SYSTEM
TRENCH DETAIL (T1) THRU (T3)
(NOT TO SCALE)



1ST REPLACEMENT SYSTEM
TRENCH DETAIL (T4) THRU (T8)
(NOT TO SCALE)

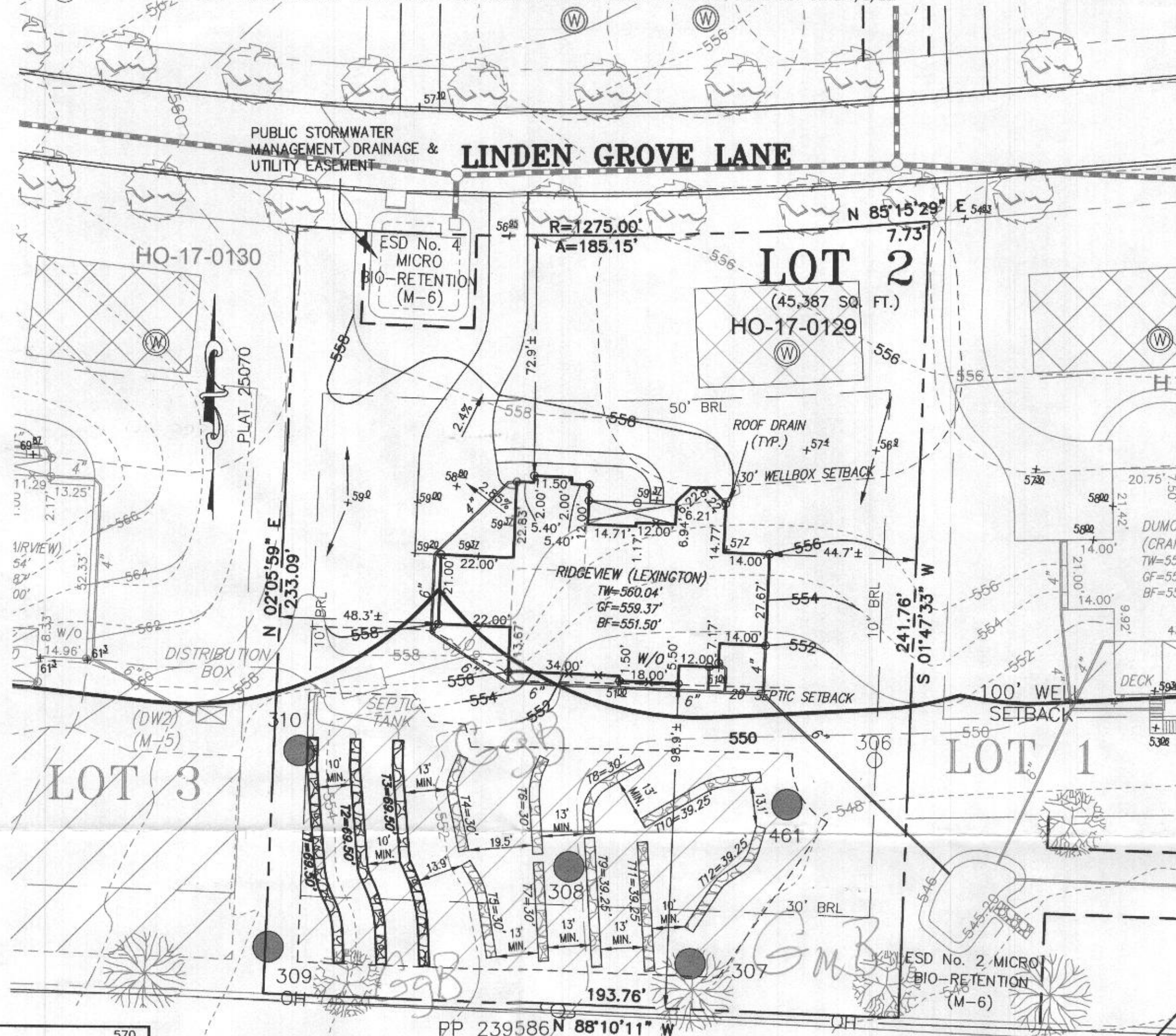


2ND REPLACEMENT SYSTEM
TRENCH DETAIL (T9) THRU (T12)
(NOT TO SCALE)



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

PROFESSIONAL CERTIFICATION: 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. 21328, EXPIRATION DATE 1/8/23.



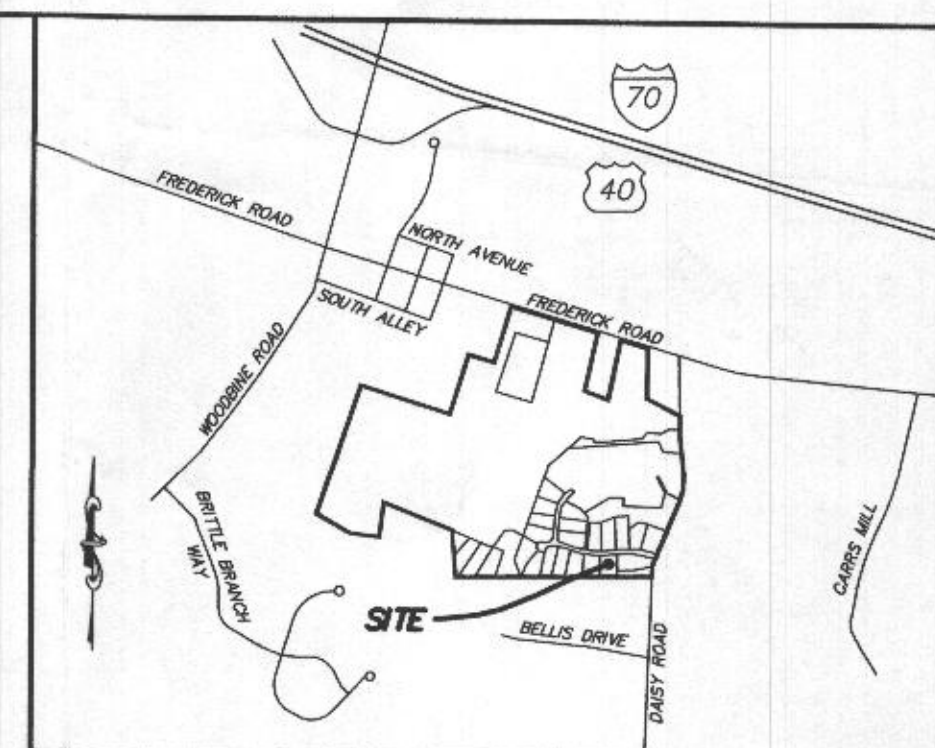
SEWAGE DISPOSAL SYSTEM DATA (5 BDRM)

- PROPOSED INVERT AT FOUNDATION WALL: 555.08'
- EX. GRADE OVER TANK: 556.00'
PROPOSED GRADE OVER TANK: 556.00'
INVERT IN: 554.30' INVERT OUT: 554.00'
 - DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 555.70'
PROPOSED GRADE OVER TANK: 555.70'
INVERT IN: 553.90' INVERT OUT: 553.60'
 - INITIAL TRENCH DESIGN (5 BDRM X 150 GPD/BDRM = 750 GPD)
750 GPD ÷ 0.6 APP. RATE = 1,250 SF
USE 3" WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
1,250 SF ÷ 3" WIDTH = 416.67 LF X 0.50 (SIDEWALL REDUCTION) = 208.34 LF MIN.
USE 3 69.50' LONG TRENCHES = 208.50 LF
 - 1ST REPLACEMENT TRENCH DESIGN (5 BDRM X 150 GPD/BDRM = 750 GPD)
750 GPD ÷ 0.6 APP. RATE = 1,250 SF
USE 3" WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
1,250 SF ÷ 3" WIDTH = 416.67 LF X 0.36 (SIDEWALL REDUCTION) = 150 LF MIN.
USE 5 30' LONG TRENCHES = 150 LF
 - 2ND REPLACEMENT TRENCH DESIGN (5 BDRM X 150 GPD/BDRM = 750 GPD)
750 GPD ÷ 0.8 APP. RATE = 937.50 SF
USE 3" WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
937.50 SF ÷ 3" WIDTH = 312.50 LF X 0.50 (SIDEWALL REDUCTION) = 156.25 LF MIN.
USE 4 39.25' LONG TRENCHES = 157 LF

WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 2 (TAG NO. HO-17-0129) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

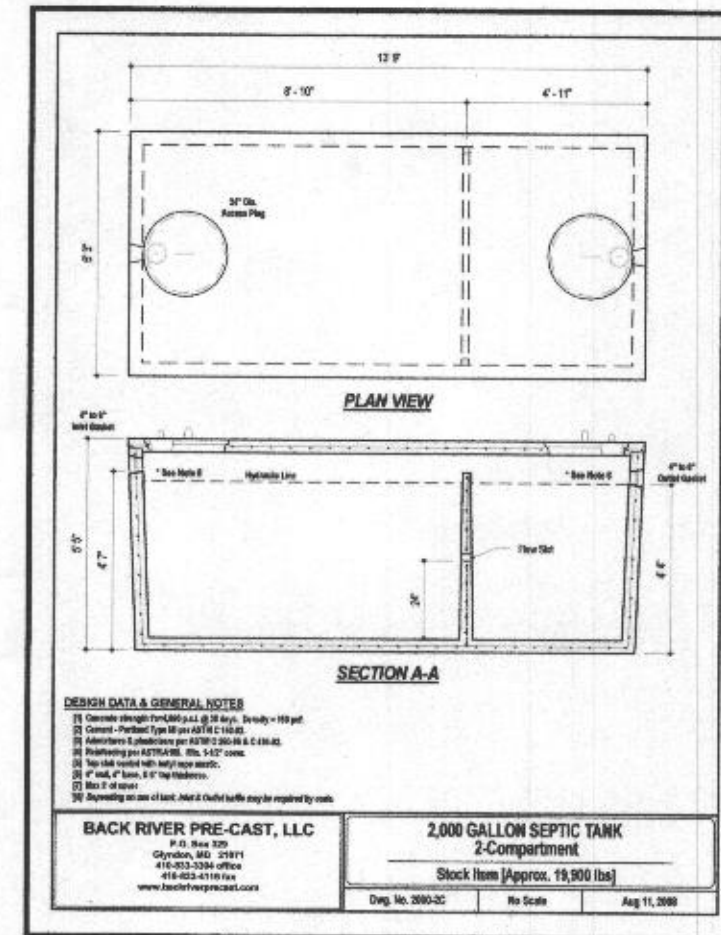
ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 2
LINDEN GROVE
LIBER 19545, FOLIO 48
PLAT NO. 25070
ELECTION DISTRICT NO. 4
HOWARD COUNTY, MARYLAND
ADDRESS: 15609 LINDEN GROVE LANE
WOODBINE, MARYLAND 21797



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.



ESE CONSULTANTS

ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL
ESE Consultants, Inc.
7164 Columbia Gateway Drive • Suite 230 • Columbia, MD 21046
T: 410-672-9105

DATE: 12/23/2020 SCALE: 1"= 30' FILE: OSDS LOT 2
CHK'D: M.J.B. JOB NO: 4683 DRAWN: R.C.K.