

Howard County Health Department

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: 9-30-21 ONSITE SEWAGE DISPOSAL SYSTEM P 570176

APPROVAL DATE: 10/22/2021 PERMIT: CONSTRUCTION A

PROPERTY ADDRESS: 15621 LINDEN GROVE LANE, WOODBINE, MD 21797

SUBDIVISION: LINDEN GROVE, PHASE 1 LOT: 5 TAX ID: 04-601884

CONTRACTOR: CHAVIS ENT. + SEPTIC SERVICES EMAIL: RYAN@CHAVISENTERPRISESLLC.COM

CONTRACTOR ADDRESS: 23 EAST ELLENDALE, BEL AIR, MD 21014 PHONE: 410 838 3007

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: [X] GRAVITY [] PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 0.8

Table with 2 columns: Field Name (TRENCHES, LOCATION, NOTES) and Field Value (LINEAR FEET REQUIRED: 142.5, INLET DEPTH: 2.5, etc.)

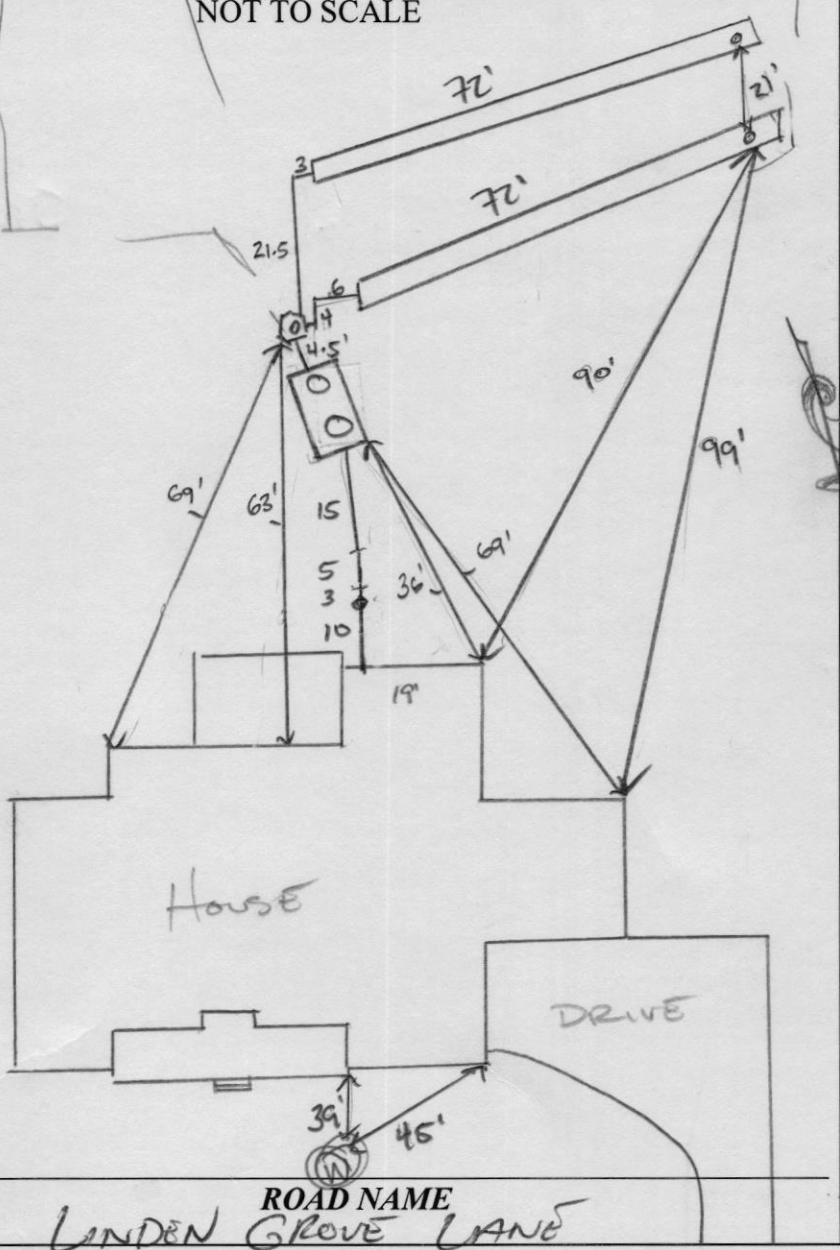
ISSUED BY: R BRICKER ISSUE DATE: 10-7-21 EXPIRATION DATE: 9-30-22

- 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 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
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.

21:30

NOT TO SCALE



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	2.5'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		144 F
ABSORPTION AREA		432 SF + 4.5' SIDE WALL
DISTRIBUTION BOX LEVEL		SPEED
DISTRIBUTION BOX BAFFLE		CONC.
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	Y
MANUFACTURER	BABILON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	2' - 1'
BAFFLES	YES
BAFFLE FILTER	-
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	07/05/2021
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	

ROAD NAME
LINDEN GROVE LANE

PRE-CONSTRUCTION:

10/08/2021 LAID OUT 2x 72' TR ON CONTOUR (+)

INSTALLATION:

10/22/2021 SHE INSTALLED; TANK SET; D BOX INSTALLED 2x 72' TR INSTALLED LIGHT WEIGHT PIPE POST D BOX IS NOT GLUED AND FELL APART AT INSPECTION. JOINTS WERE GLUED. D BOX LEVELED W/ SPEED LEVELS (+)

FINAL INSPECTOR

[Signature]

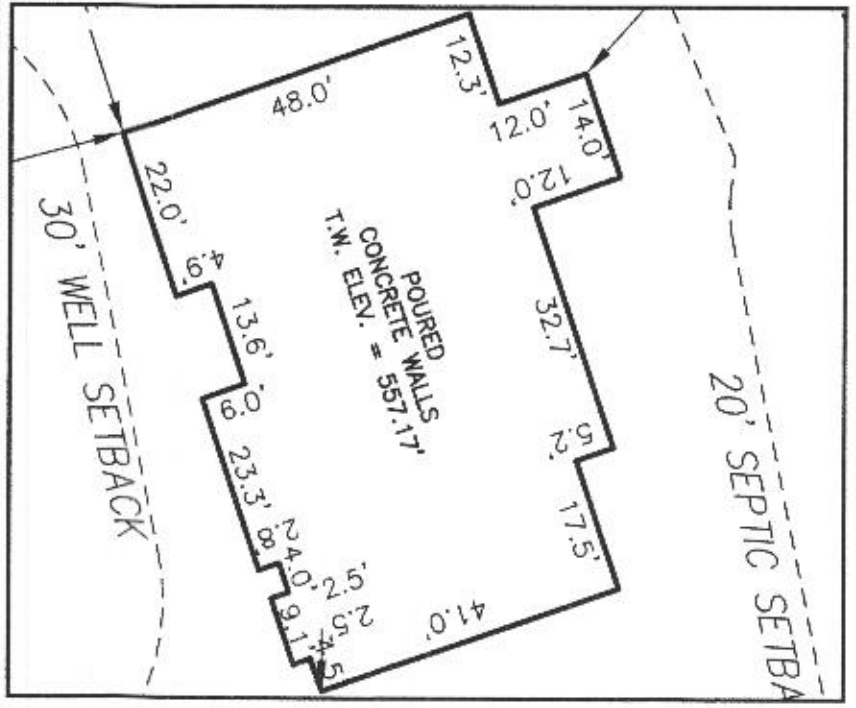
DATE OF APPROVAL

10/22/2021

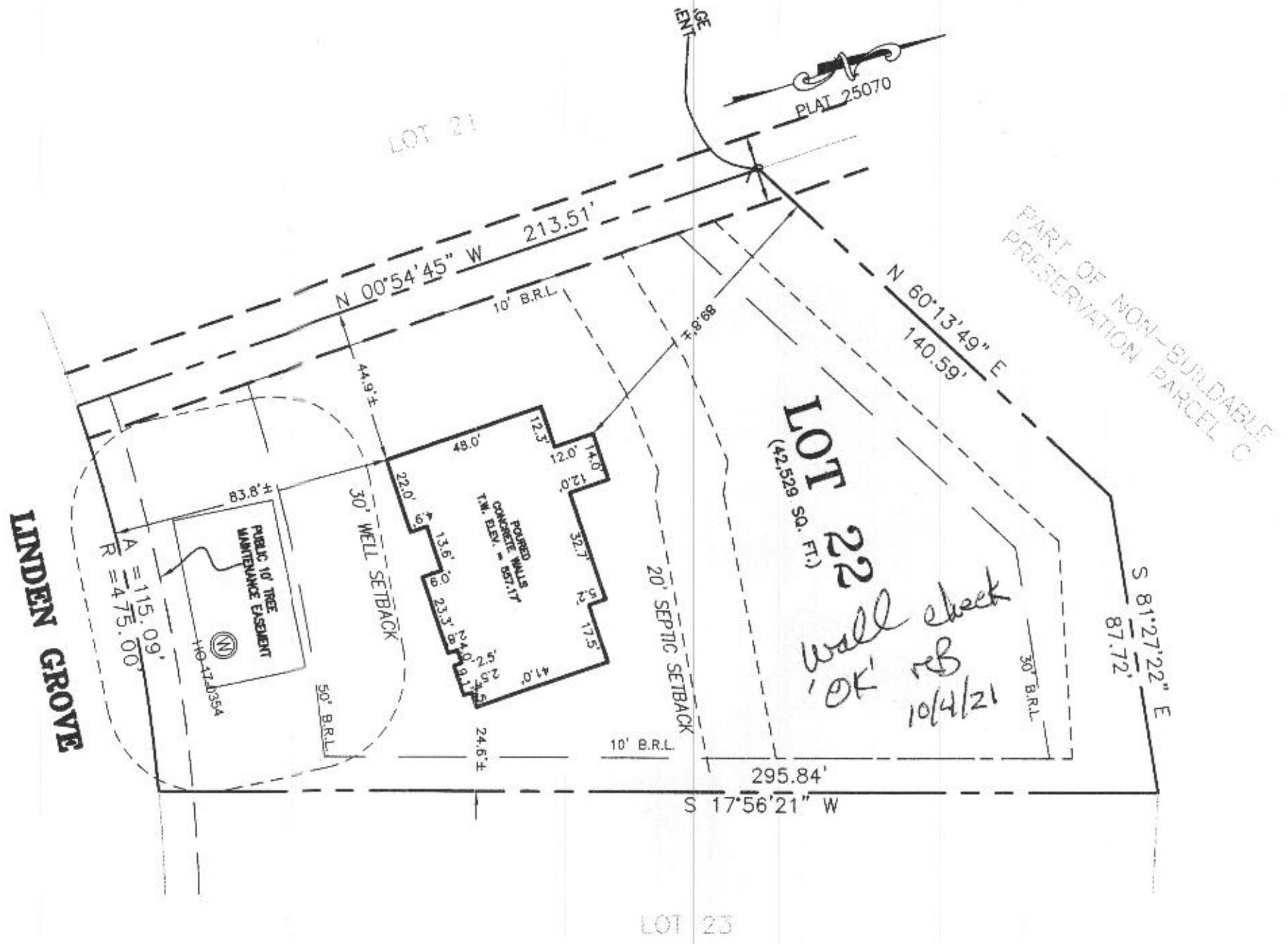
LEGEND:

- BRL BUILDING RESTRICTION LINE
- W WELL LOCATION
- T.W. TOP OF WALL
- ELEV. ELEVATION

 SEPTIC RESERVE AREA



HOUSE ENLARGEMENT
NOT TO SCALE



WELL NUMBER: HO-17-0354
 ADDRESS: 15608 LINDEN GROVE LANE
 WOODBINE, MD 21797
 PERMIT NO.: B21000407

BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT 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.

Michael Joe Boyce 21328 05/25/21
 SIGNATURE: MICHAEL JOE BOYCE MD, LIC NO. DATE

WALLCHECK
 LOT 22
LINDEN GROVE
 LIBER 1619, FOLIO 341
 PLAT NO. 25070
 ELECTION DISTRICT No. 4
 HOWARD COUNTY, MARYLAND

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

DATE: 05/25/2021 SCALE: 1"=40' FILE: WC LOTS 22
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.



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.

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
*GmC	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	.37
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	.24

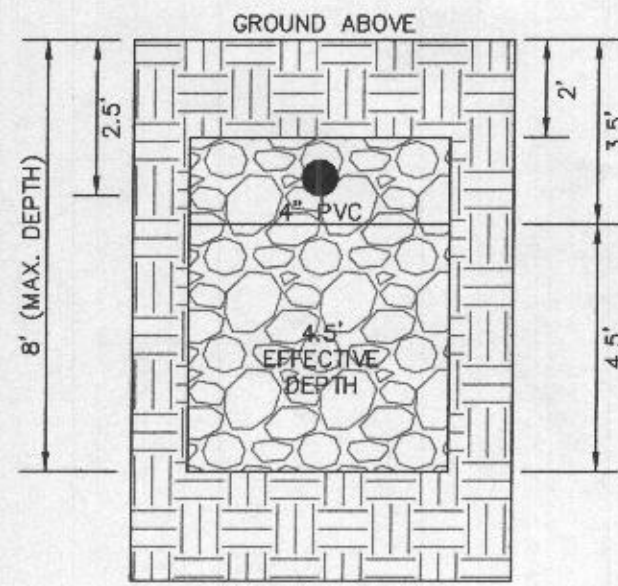
NOTES:
 * HYDRIC SOILS AND / OR CONTAINS HYDRIC INCLUSIONS
 ** MAY CONTAIN HYDRIC INCLUSIONS
 *** DENOTES ERODIBLE SOILS

INITIAL TRENCH DATA:

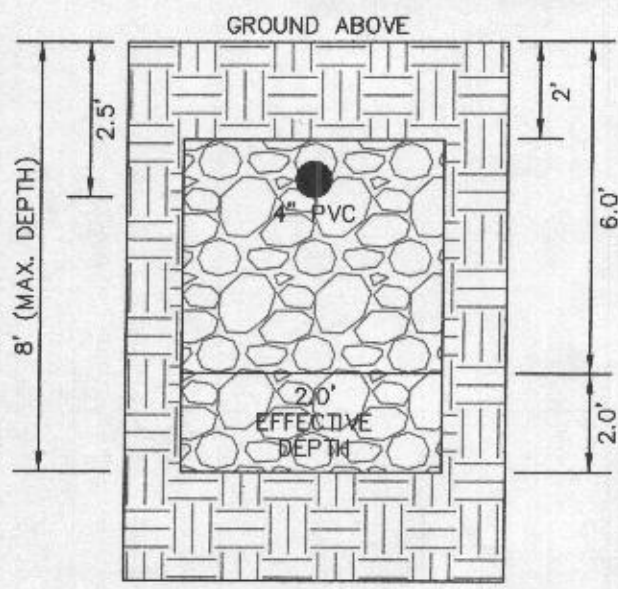
BOTTOM MAX. DEPTH (8')
TRENCH 1 (T1): 71.25 L.F.
 GROUND ABOVE = 566.30'
 INV. IN = 563.80'
 BOTTOM TRENCH = 588.30'
TRENCH 2 (T2): 71.25 L.F.
 GROUND ABOVE = 564.80'
 INV. IN = 562.30'
 BOTTOM TRENCH = 566.80'

LEGEND:

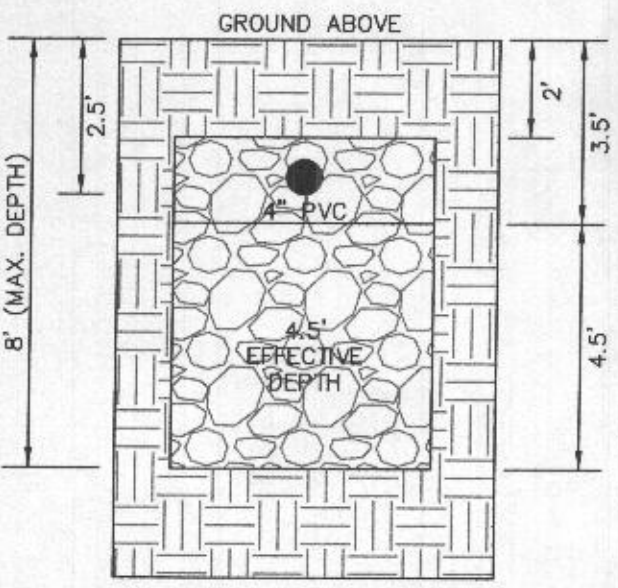
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- W WELL LOCATION
- T.W. TOP OF WALL
- G.F. GARAGE FLOOR
- B.F. BASEMENT FLOOR
- PASSED PERC LOCATION
- FAILED PERC LOCATION
- ▨ SEPTIC RESERVE AREA
- WELL BOX AREA
- PROPOSED TREE
- PROPOSED TREE



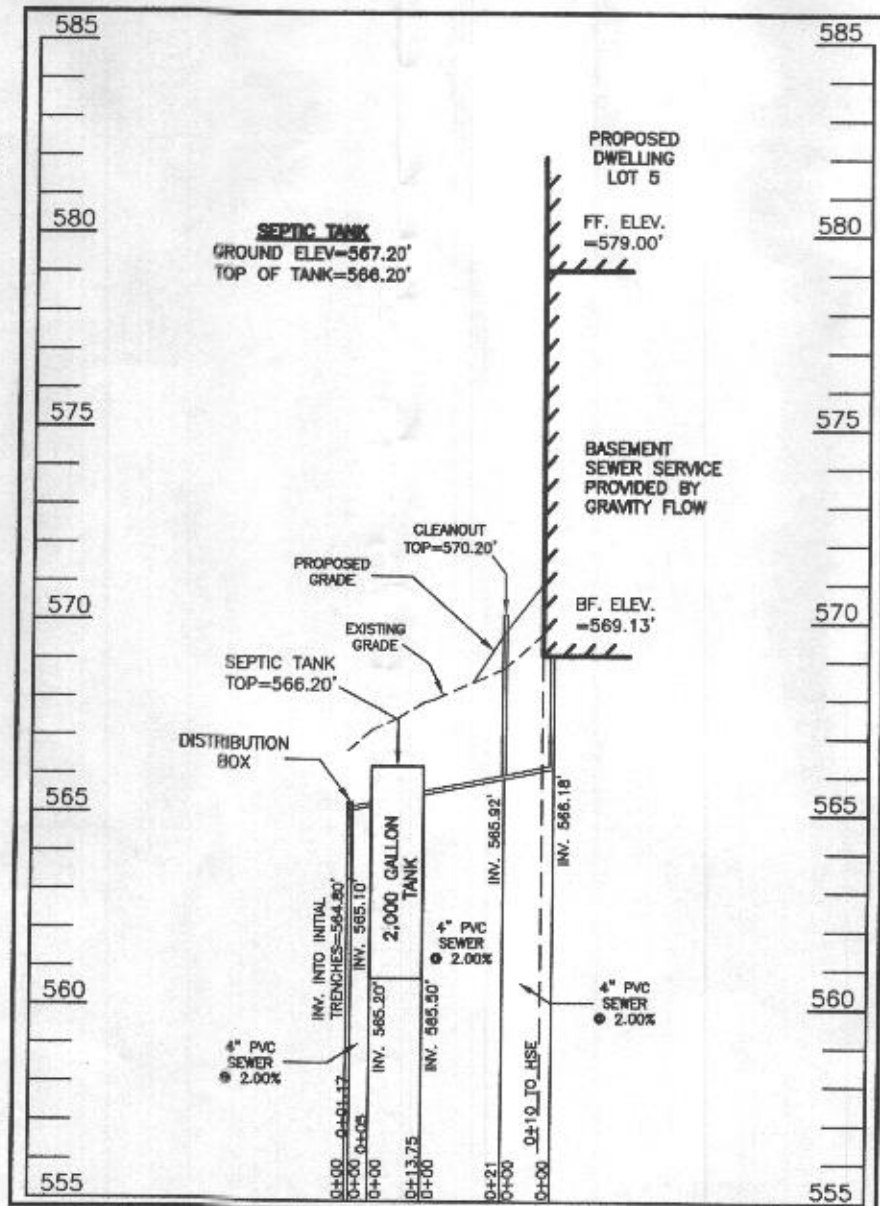
INITIAL SYSTEM TRENCH DETAIL (T1) & (T2) (NOT TO SCALE)



1ST REPLACEMENT SYSTEM TRENCH DETAIL (T3) THRU (T6) (NOT TO SCALE)



2ND REPLACEMENT SYSTEM TRENCH DETAIL (T7) THRU (T9) (NOT TO SCALE)



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



SEWAGE DISPOSAL SYSTEM DATA (6 BDRM):

- PROPOSED INVERT AT FOUNDATION WALL: 566.18'
- EX. GRADE OVER TANK: 567.20'
 PROPOSED GRADE OVER TANK: 567.20'
 INVERT IN: 565.50' INVERT OUT: 565.20'
 - DISTRIBUTION BOX
 EXISTING GRADE OVER TANK: 566.70'
 PROPOSED GRADE OVER TANK: 566.70'
 INVERT IN: 565.10' INVERT OUT: 564.80'
 - INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
 900 GPD ÷ 0.8 APP. RATE = 1,125 SF
 USE 3' WIDE TRENCH WITH XX" GRAVEL BELOW PIPE
 12' MIN. SPACING BETWEEN TRENCH EDGES
 1.125 SF ÷ 3' WIDTH = 375 LF x 0.38 (SIDEWALL REDUCTION) = 142.50 LF MIN.
USE 2 71.25' LONG TRENCHES = 142.50 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 XX" GRAVEL BELOW PIPE
 10' MIN. SPACING BETWEEN TRENCH EDGES
 1.125 SF ÷ 3' WIDTH = 375 LF x 0.63 (SIDEWALL REDUCTION) = 236.25 LF MIN.
USE 4 59.25' LONG TRENCHES = 237.00 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 XX" GRAVEL BELOW PIPE
 12' MIN. SPACING BETWEEN TRENCH EDGES
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USE 3 47.50' LONG TRENCHES = 142.50 LF

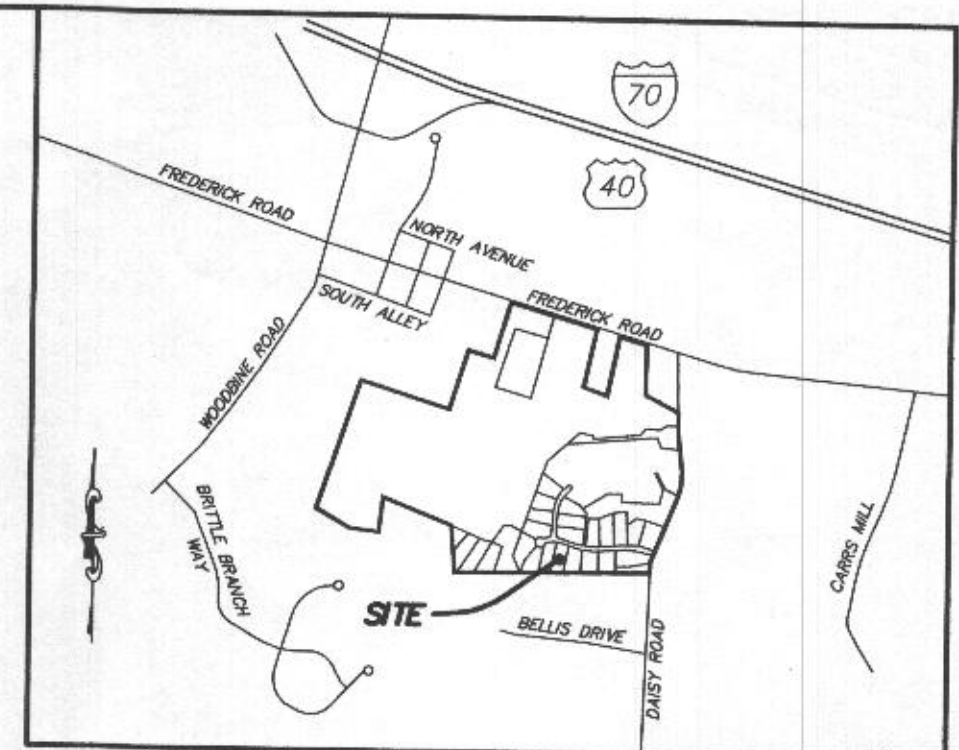
HOUSE OPTIONS:

- HOUSE TYPE: PARKHURST (CRAFTSMAN)
- TWO CAR SIDE ENTRY GARAGE CONFIGURATION
 - WALK-OUT BASEMENT
 - ADD'L TWO CAR FRONT ENTRY GARAGE
 - GRAND MULTI-GENERATIONAL SUITE ADDITION
 - OPTIONAL DROP ZONE
 - WALK-OUT LUXURY COVERED DECK
 - DOUBLE WIDE DRIVEWAY TAIL
 - WET BAR ROUGH IN BASEMENT
- OPTION No. 012
 - OPTION No. 017
 - OPTION No. 263019
 - OPTION No. 263075
 - OPTION No. 263081
 - OPTION No. 263169
 - OPTION No. 851
 - OPTION No. 90005021

WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 5 (TAG NO. HO-17-0344) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 5
LINDEN GROVE
 LIBER 15899, FOLIO 246
 PLAT NO. 25071
 ELECTION DISTRICT No. 4
 HOWARD COUNTY, MARYLAND
 ADDRESS: 15621 LINDEN GROVE LANE
 WOODBINE, MARYLAND 21797

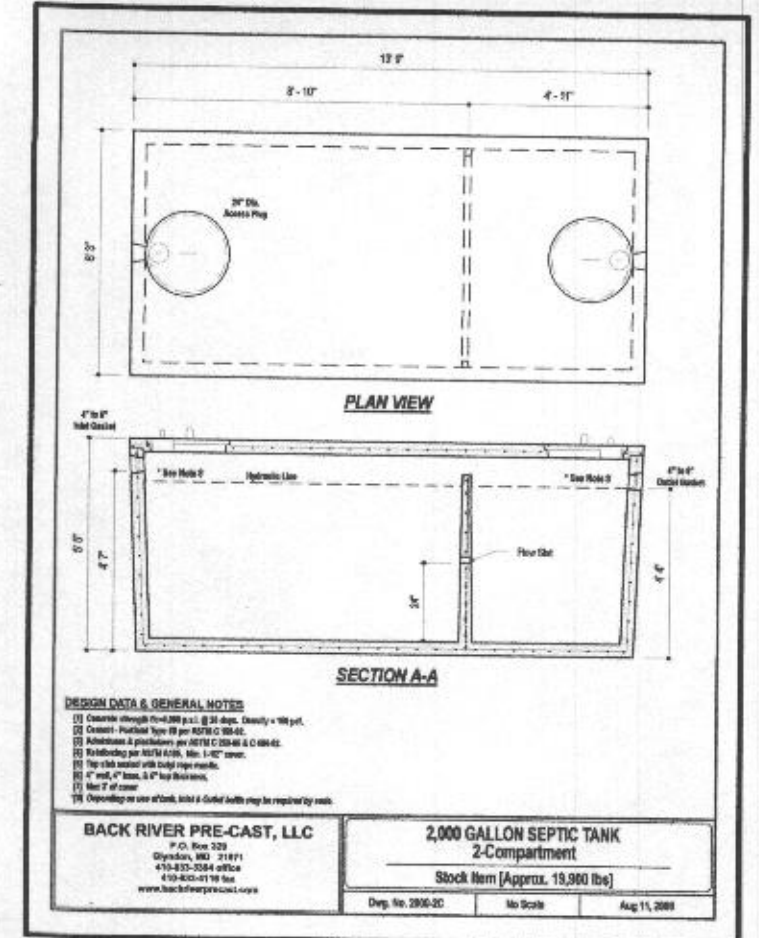


VICINITY MAP

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 INTO 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.



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

DATE: 04/01/2021 SCALE: 1"= 30' FILE: OSDS LOT 5
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.

HOUSE OPTIONS:

HOUSE TYPE: DUMONT (FAIRVIEW)

- TWO CAR SIDE ENTRY GARAGE CONFIGURATION
- FINISHED LOWER LEVEL
- WALK-OUT BASEMENT
- ADD'L 1' TO BSMT FOUNDATION WALLS
- OPTIONAL DROP ZONE
- ADD'L ONE CAR FRONT ENTRY GARAGE - 14'
- WALK-OUT LUXURY COVERED DECK
- OPTIONAL BATH FOR FINISHED LOWER LEVEL
- LUXURY OUTDOOR LIVING SPACE GAS BURNING FIREPLACE
- ADDITIONAL SINGLE WINDOW
- WET BAR FOR FINISHED LOWER LEVEL
- DOUBLE WIDE DRIVEWAY TAIL
- OPT. 030 ADD'L WALK-IN CLOSET (PRIM. BEDROOM)
- ADD'L BEDROOM IN THE LOWER LEVEL OF REC SPACE

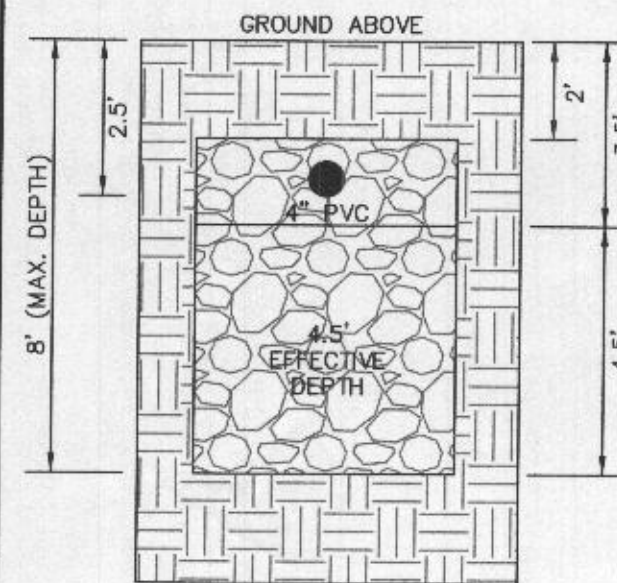
- OPTION NO. 012
- OPTION NO. 013
- OPTION NO. 017
- OPTION NO. 070
- OPTION NO. 263081
- OPTION NO. 263102
- OPTION NO. 263169
- OPTION NO. 383
- OPTION NO. 10612
- OPTION NO. 187
- OPTION NO. 561
- OPTION NO. 851
- OPTION NO. 90005010
- OPTION NO. 90005015

INITIAL TRENCH DATA:

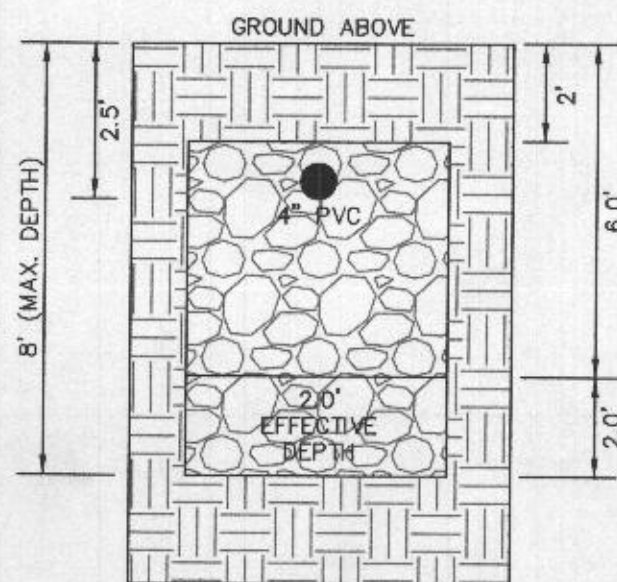
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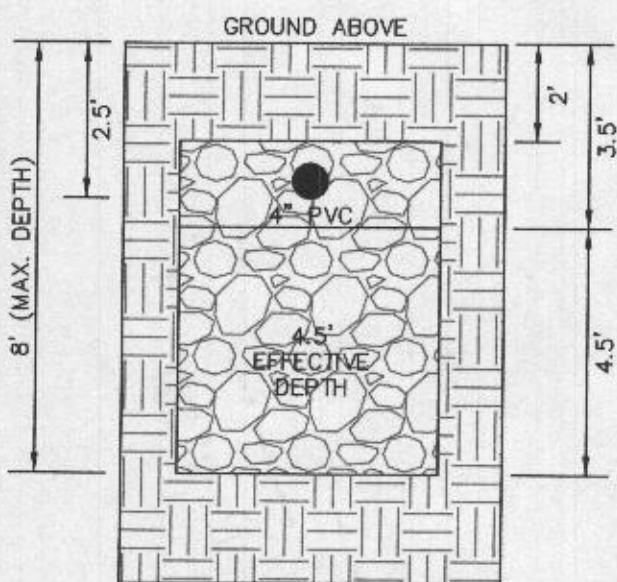
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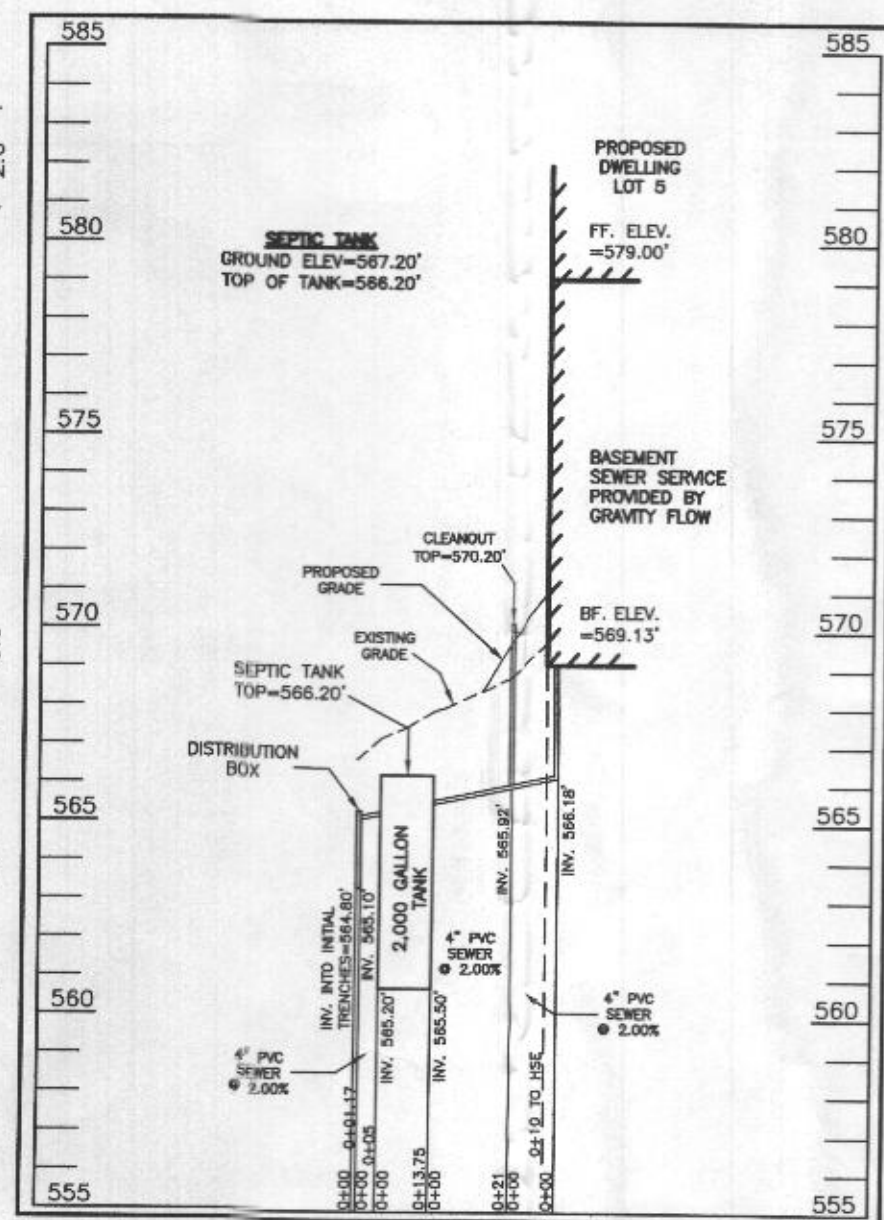
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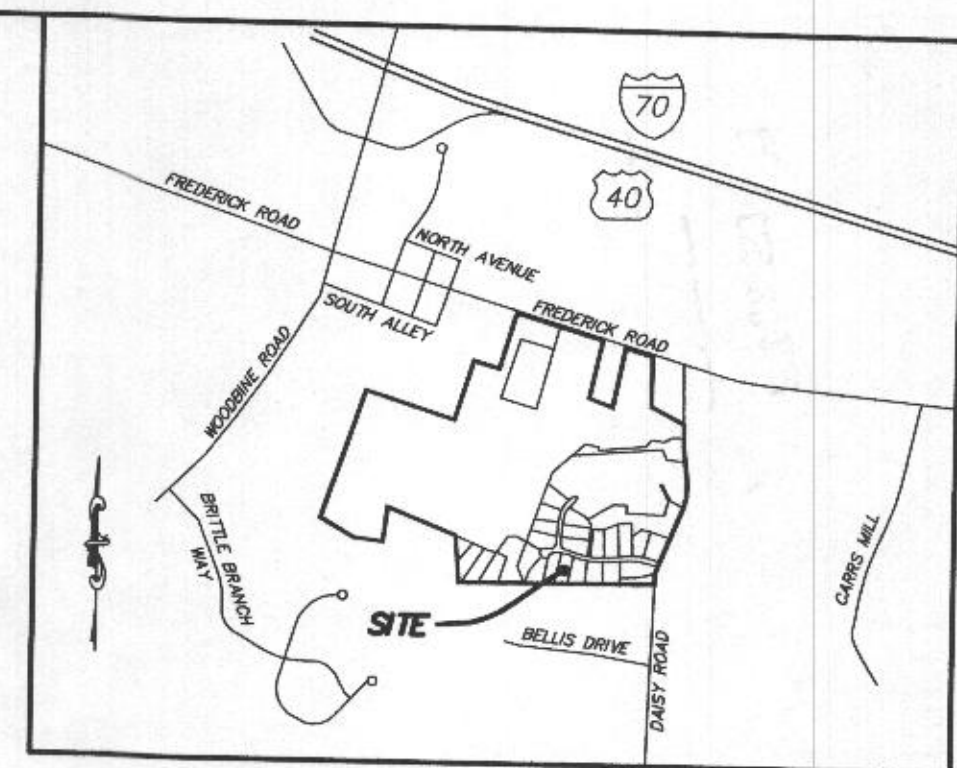
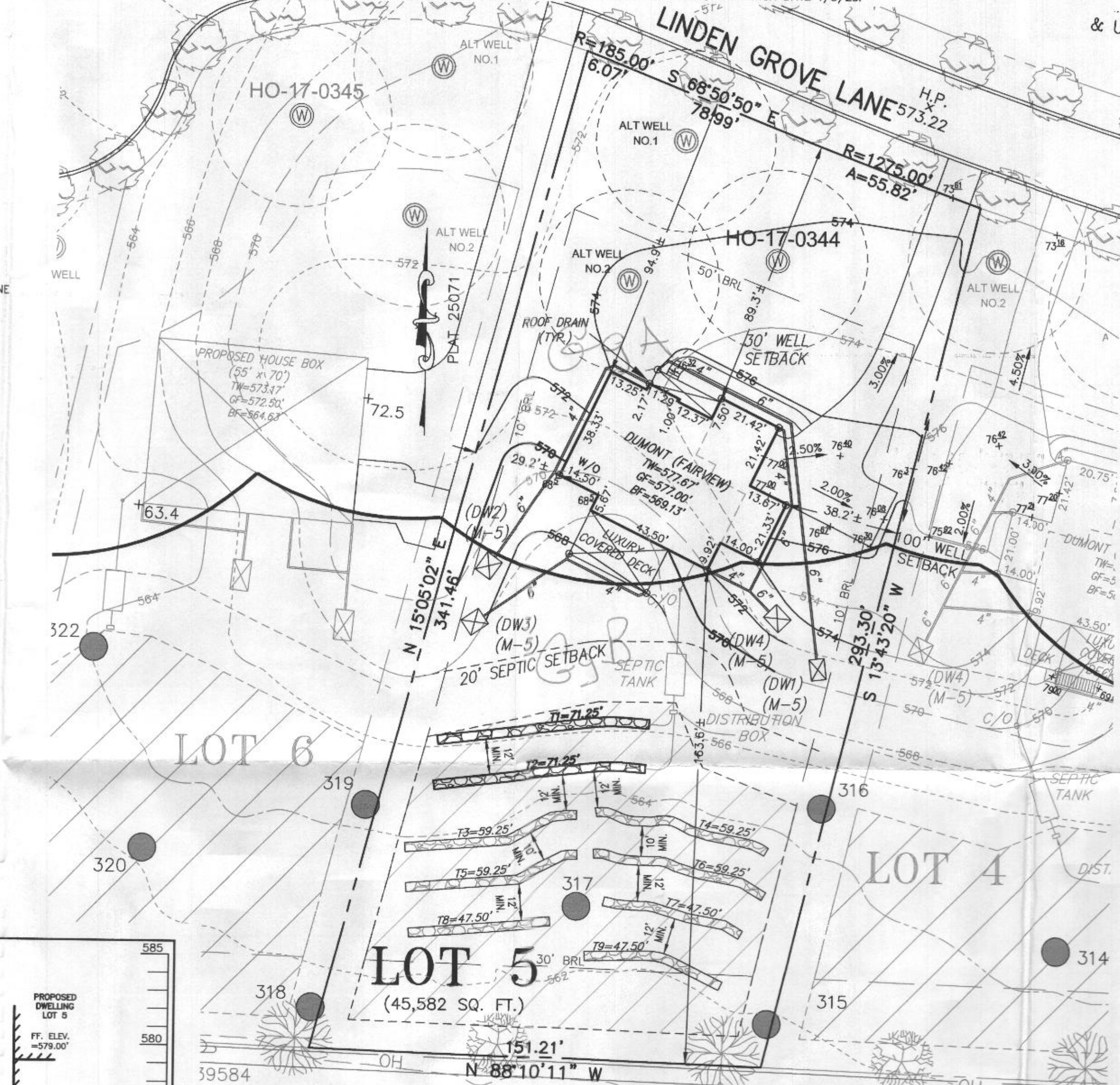
2ND REPLACEMENT SYSTEM TRENCH DETAIL (T7) THRU (T9) (NOT TO SCALE)



SEWAGE DISPOSAL SYSTEM DATA (6 BDRM)

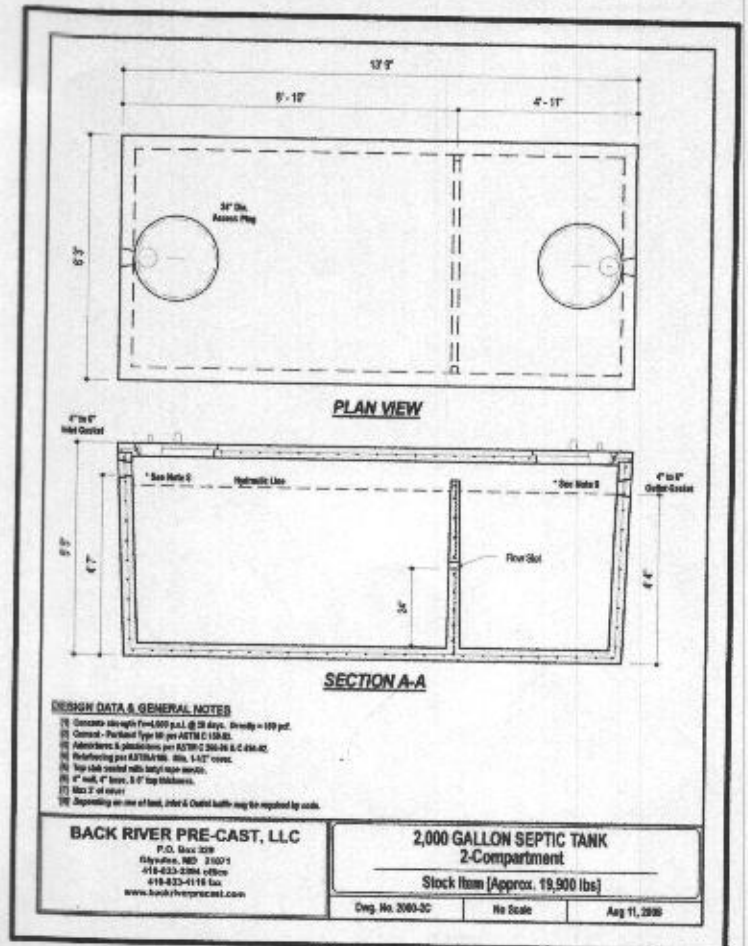
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Approved Septic System Plan
 Howard County Health Department
 2,000 Gallon Septic Tank
 Gravity Drain Field
 6 Bedroom SFD
 Signature: [Handwritten Signature] Date: 5/10/21
WELL LOCATION CERTIFICATION:
 THE EXISTING WELL SHOWN FOR LOT 5 (TAG NO. HO-17-0344) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 5 LINDEN GROVE
 LIBER 15899, FOLIO 246
 PLAT NO. 25071
 ELECTION DISTRICT No. 4
 HOWARD COUNTY, MARYLAND
 ADDRESS: 15621 LINDEN GROVE LANE
 WOODBINE, MARYLAND 21797

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