



**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](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](https://www.facebook.com/hocohealth)

RECEIPT DATE: 2/17/21 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 568257

APPROVAL DATE: 8/31/21 **PERMIT: CONSTRUCTION**

A \_\_\_\_\_

PROPERTY ADDRESS: 15617 LINDEN GROVE LANE, WOODBINE, MD 21797

SUBDIVISION: LINDEN GROVE, PHASE 1 LOT: 4 TAX ID: 04-601883

CONTRACTOR: \_\_\_\_\_ EMAIL: \_\_\_\_\_

CONTRACTOR ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

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: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>157.5</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>11</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4.0</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 CLEANOUTS IN SHC.	

ISSUED BY: R BRICKER ISSUE DATE: \_\_\_\_\_ EXPIRATION DATE: \_\_\_\_\_

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.**

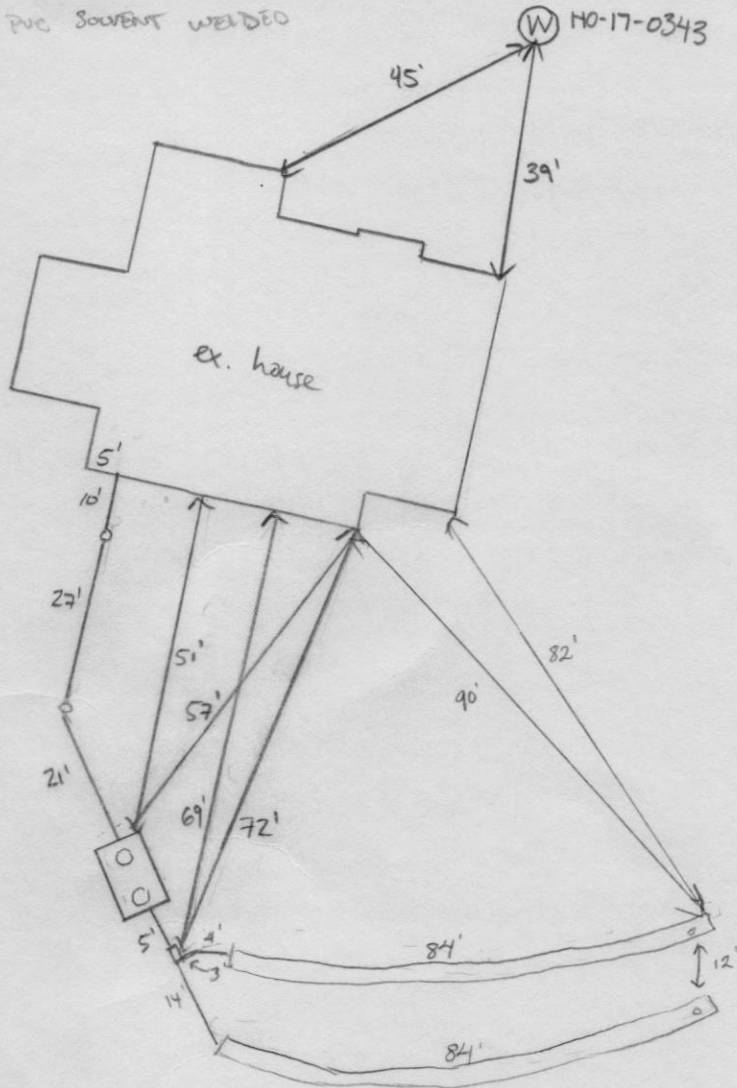
**PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.**

**CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

15617 Linden Grove Ln

NOT TO SCALE 1"=30'

4" CEMENT COEX CBL CAPS  
SCH 40 PVC SOUVENT WELDED



ROAD NAME

**TRENCH/DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
3'	2.5'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		168'
ABSORPTION AREA		504 sq ft + sidewall
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes

**SEPTIC TANK DATA**

SEPTIC TANK 1 LEVEL	
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	1.5'
BAFFLES	inlet + outlet
BAFFLE FILTER	-
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	12/21/2020

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:**

3/26/21 2x 79' trenches were staked out on contour. Tank location d-box and c/o, also staked. SL coming out below footer. Appears to be sufficient fall.

**INSTALLATION:** 03/29/2021 TANK SET. SHC IS DEEP. INSTALL 4" TO 6" INLET BAFFLE AND

INSTALL D BOX w/ BAFFLE. 3/30/21 Tank baffles installed. Bottom trench complete, top trench halfway done. Re-inspect for d-box baffle and d-box leveling. 3/31/21 D-box level. Last trench completed.

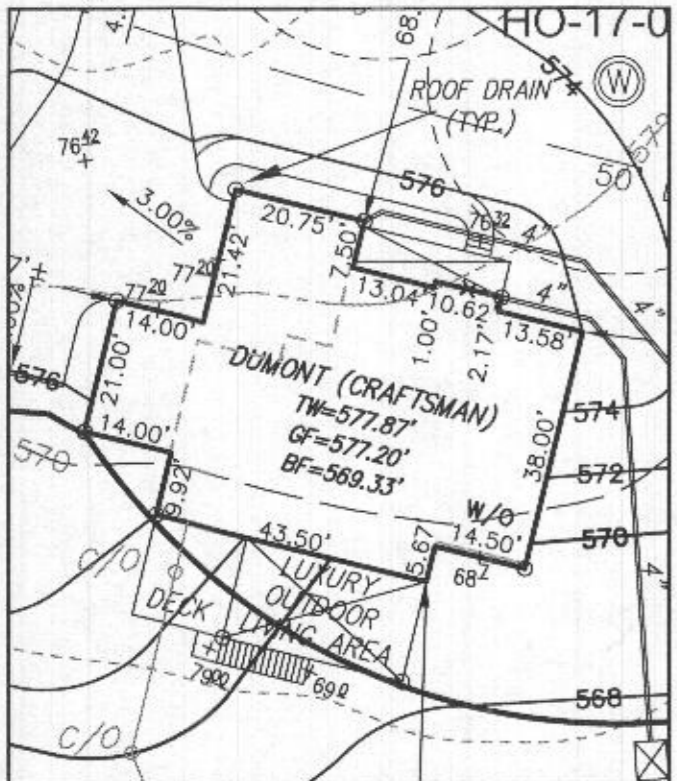
FINAL INSPECTOR Austin Thomas

DATE OF APPROVAL 3/31/21

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 1/8/21.

**LEGEND:**

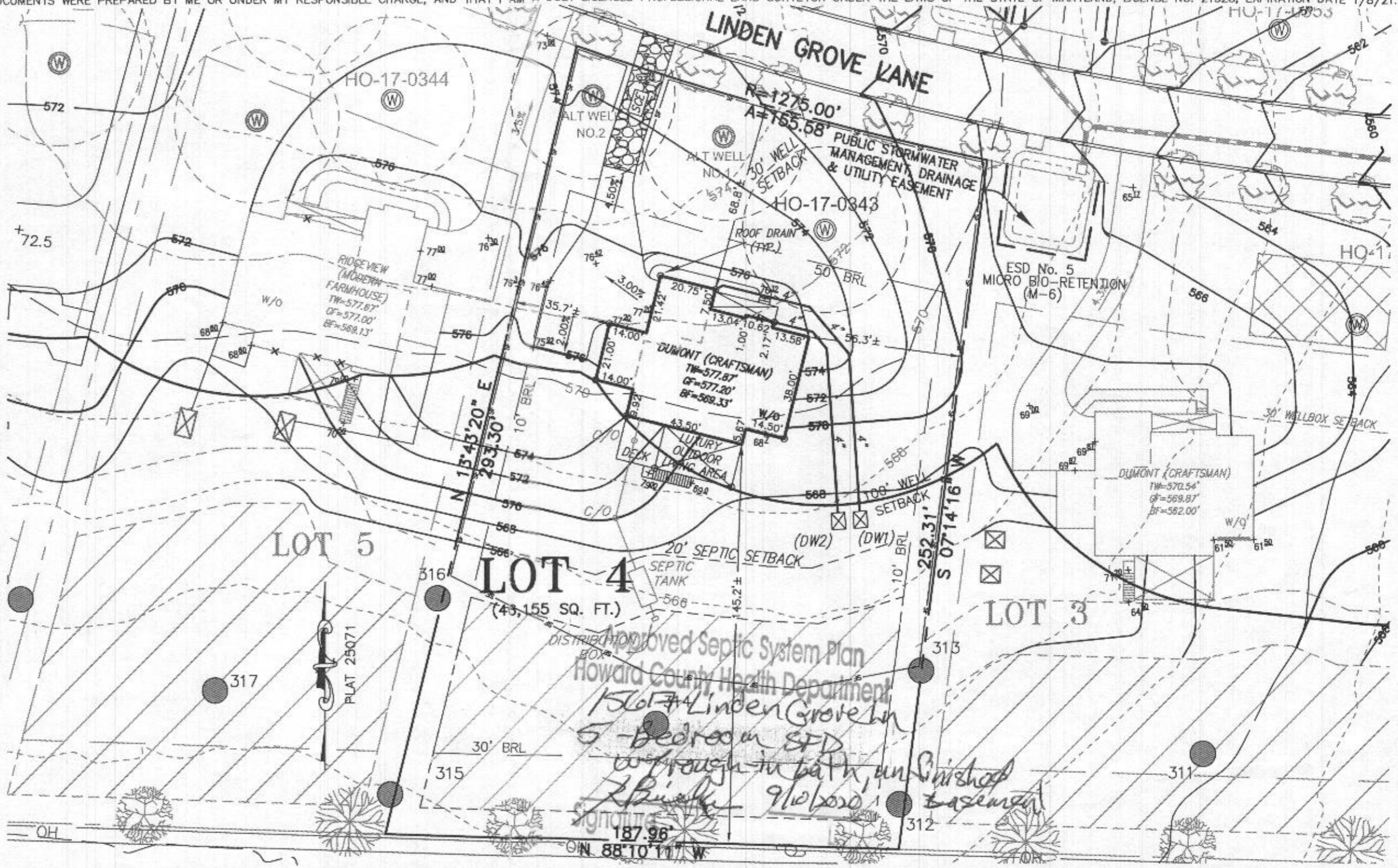
- BRL BUILDING RESTRICTION LINE
- (W) WELL LOCATION
- T.W. TOP OF WALL
- G.F. GARAGE FLOOR
- B.F. BASEMENT FLOOR
- PASSED PERC LOCATION
- FAILED PERC LOCATION
- ▨ SEPTIC RESERVE AREA
- ▧ WELL BOX AREA
- PROPOSED TREE
- PROPOSED TREE
- PROPOSED TREE



HOUSE ENLARGEMENT  
SCALE 1" = 30'

WELL NUMBER: HO-17-0343  
ADDRESS: 15617 LINDEN GROVE LANE  
WOODBINE, MD 21797

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



Approved Septic System Plan  
Howard County Health Department  
15617 Linden Grove Ln  
5-Bedroom SPD  
w/rough-in path, unfinished  
basement  
9/16/2020



HOUSE TYPE: DUMONT (CRAFTSMAN)  
TWO CAR SIDE ENTRY GARAGE CONFIGURATION  
FINISHED LOWER LEVEL  
WALK-OUT BASEMENT  
ADDITIONAL WALK-IN CLOSET  
ADD'L 1' TO BSMT FOUNDATION WALLS  
DOUBLE WIDE DRIVEWAY TAIL  
OPTIONAL DROP ZONE  
ADD'L ONE CAR FRONT ENTRY GARAGE - 14'  
WALK-OUT LUXURY COVERED DECK  
ADDITIONAL EXTERIOR DECKING

- OPTION No. 012
- OPTION No. 013
- OPTION No. 017
- OPTION No. 030
- OPTION No. 070
- OPTION No. 851
- OPTION No. 263081
- OPTION No. 263102
- OPTION No. 263169
- OPTION No. 00000

PLOT PLAN  
LOT 4  
**LINDEN GROVE**  
LIBER 15899, FOLIO 246  
PLAT NO. 25071  
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: 08/13/2020 SCALE: 1"=40' FILE: PP LOT 4 - DUMONT CRAFT\_rev1  
CHK'D: M.J.B. JOB NO: 4683 DRAWN: R.C.K.

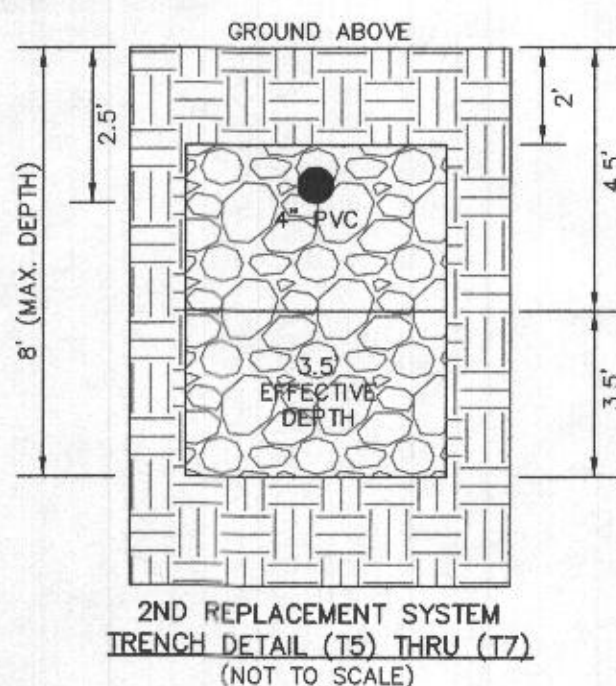
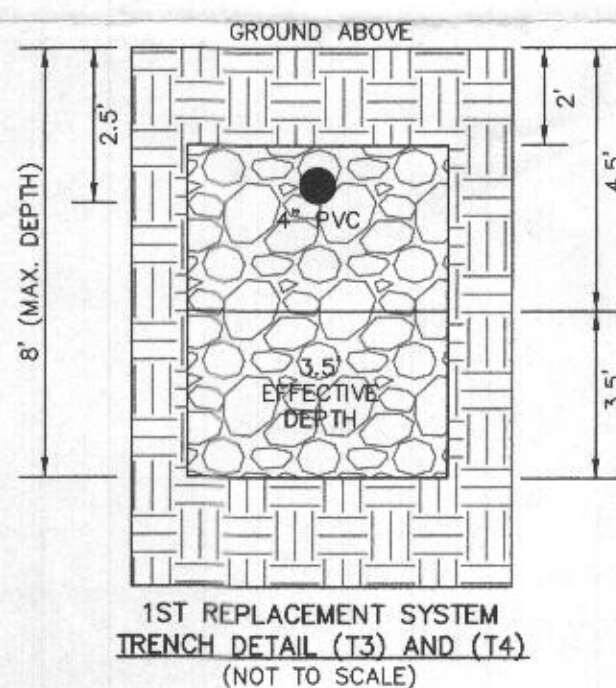
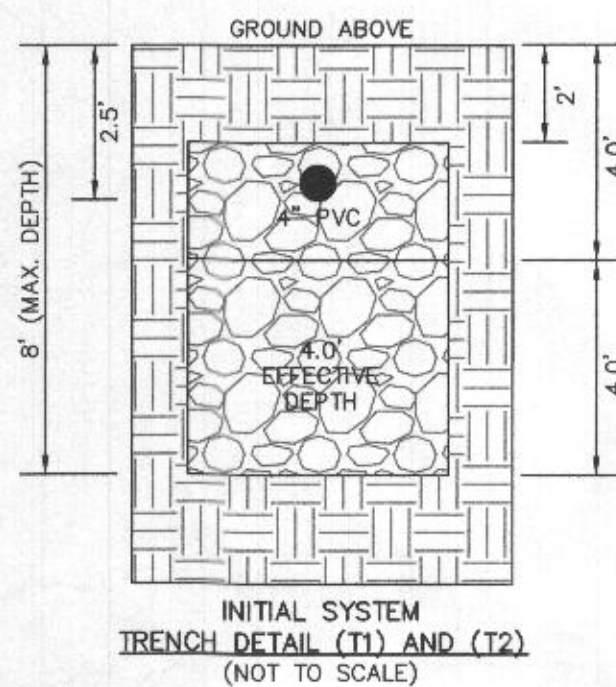
**HOUSE OPTIONS:**

HOUSE TYPE: DUMONT (CRAFTSMAN)  
 TWO CAR SIDE ENTRY GARAGE CONFIGURATION  
 FINISHED LOWER LEVEL  
 WALK-OUT BASEMENT  
 ADDITIONAL WALK-IN CLOSET  
 ADD'L 1" TO BSMT FOUNDATION WALLS  
 DOUBLE WIDE DRIVEWAY TAIL  
 OPTIONAL DROP ZONE  
 ADD'L ONE CAR FRONT ENTRY GARAGE - 14'  
 WALK-OUT LUXURY COVERED DECK  
 ADDITIONAL EXTERIOR DECKING

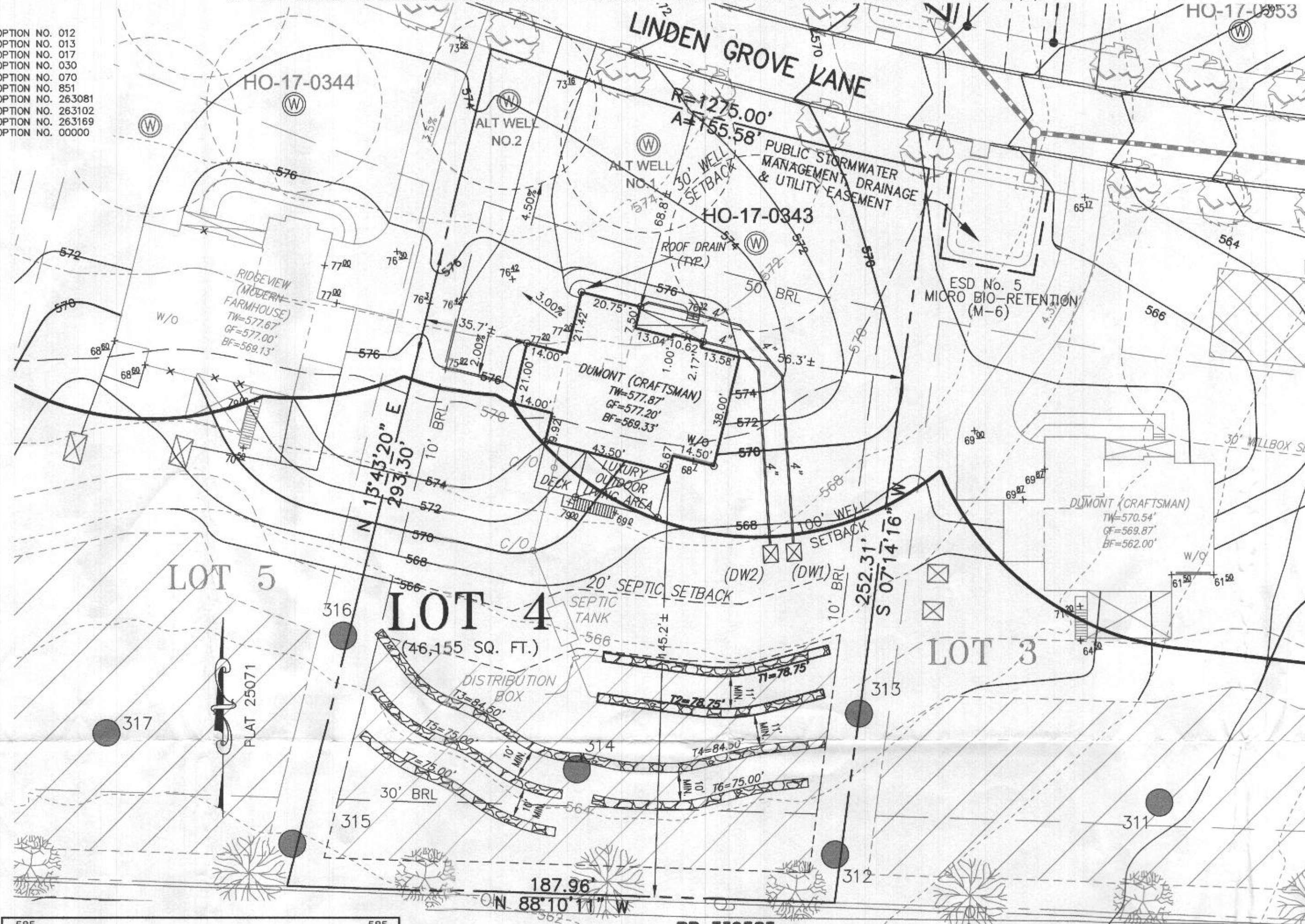
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**INITIAL TRENCH DATA:**

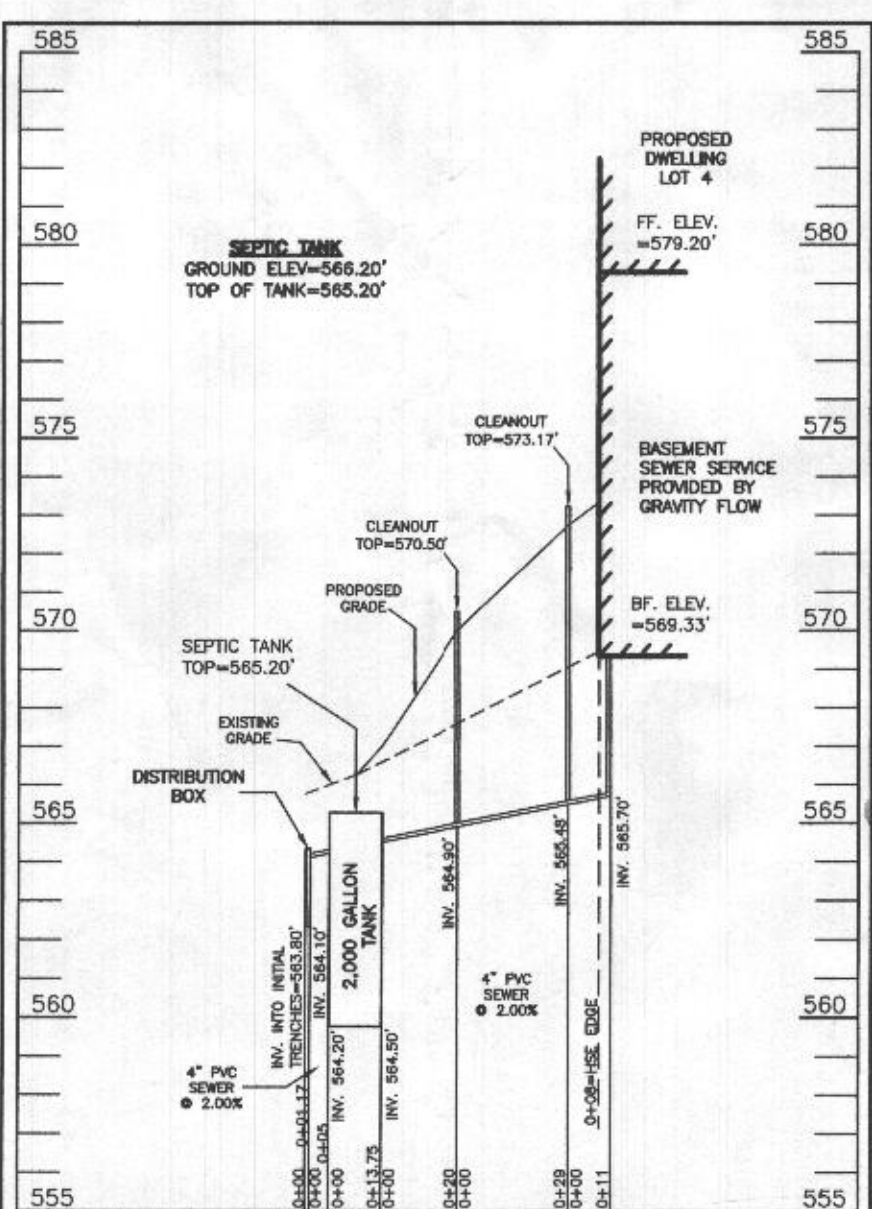
BOTTOM MAX. DEPTH (8')  
**TRENCH 1 (T1): 78.75 L.F.**  
 GROUND ABOVE = 565.76'  
 INV. IN = 563.26'  
 BOTTOM TRENCH = 557.76'  
**TRENCH 2 (T2): 78.75 L.F.**  
 GROUND ABOVE = 565.26'  
 INV. IN = 562.76'  
 BOTTOM TRENCH = 557.26'



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 1/8/21.



- 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.



**SEWAGE DISPOSAL SYSTEM DATA (6 BDRM):**

PROPOSED INVERT AT FOUNDATION WALL: 565.70'

- EX. GRADE OVER TANK: 566.24'  
 PROPOSED GRADE OVER TANK: 566.24'  
 INVERT IN: 564.50' INVERT OUT: 564.20'
- DISTRIBUTION BOX  
 EXISTING GRADE OVER TANK: 565.73'  
 PROPOSED GRADE OVER TANK: 565.73'  
 INVERT IN: 564.10' INVERT OUT: 563.80'
- 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 60" 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
- 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 60" GRAVEL BELOW PIPE  
 10" MIN. SPACING BETWEEN TRENCH EDGES  
 1,125 SF ÷ 3' WIDTH = 375 LF x 0.45 (SIDEWALL REDUCTION) = 168.75 LF MIN.  
 USE 2 84.50' LONG TRENCHES = 169 LF
- 2ND REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)  
 900 GPD ÷ 0.6 APP. RATE = 1,500 SF  
 USE 3' WIDE TRENCH WITH 60" GRAVEL BELOW PIPE  
 10" MIN. SPACING BETWEEN TRENCH EDGES  
 1,500 SF ÷ 3' WIDTH = 500 LF x 0.45 (SIDEWALL REDUCTION) = 225 LF MIN.  
 USE 3 75' LONG TRENCHES = 225 LF



**LEGEND:**

- BRL BUILDING RESTRICTION LINE
- W WELL LOCATION
- T.W. TOP OF WALL
- G.F. GARAGE FLOOR
- B.F. BASEMENT FLOOR
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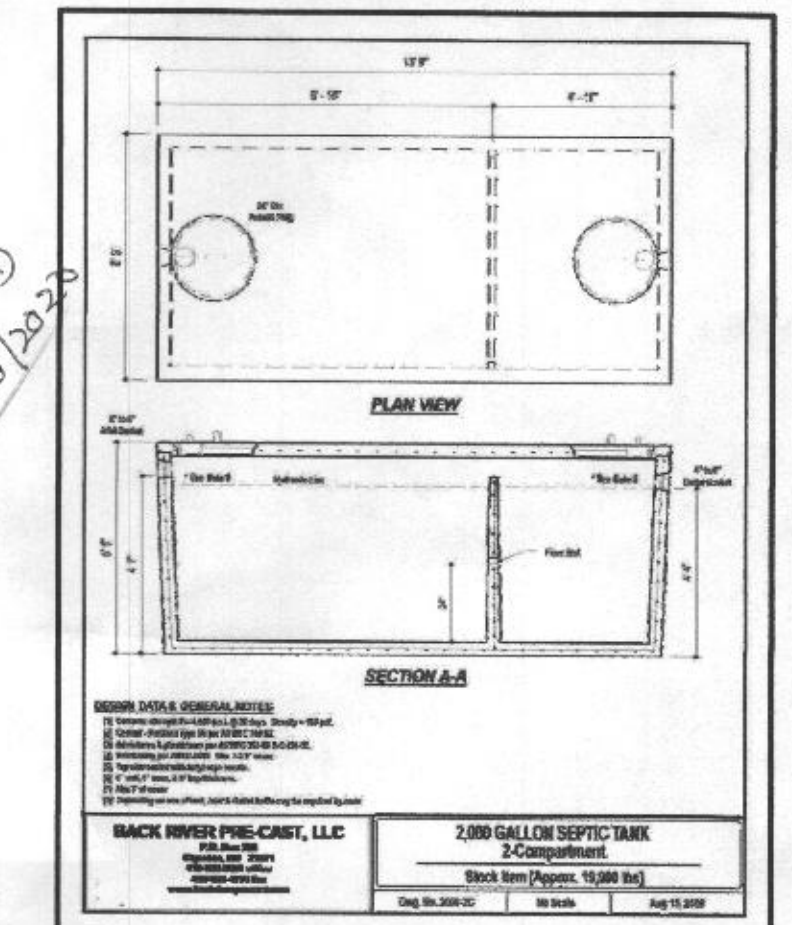
**WELL LOCATION CERTIFICATION:**  
 THE EXISTING WELL SHOWN FOR LOT 4 (TAG NO. HO-17-0343) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN  
 LOT 4  
**LINDEN GROVE**  
 LIBER 15899, FOLIO 246  
 PLAT NO. 25071  
 ELECTION DISTRICT NO. 4  
 HOWARD COUNTY, MARYLAND  
 ADDRESS: 15617 LINDEN GROVE LANE  
 WOODBINE, MARYLAND 21797

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DATE: 08/13/2020 SCALE: 1" = 30' FILE: OSDS LOT 4\_rev1  
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: R.C.K.



*Approved Septic System Plan  
 To Howard County Health Department  
 For Gravity Drainage  
 9/10/2020*