



**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](http://www.facebook.com/hocohealth)

RECEIPT DATE: 3-17-21 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 58758

APPROVAL DATE: 04/05/2021 **PERMIT: CONSTRUCTION**

A

PROPERTY ADDRESS: 15629 LINDEN GROVE LANE, WOODBINE, MD 21797

SUBDIVISION: LINDEN GROVE, PHASE 1 LOT: 7 TAX ID: 04-601886

CONTRACTOR: Chalk Enterprises, LLC EMAIL: scottick@chalkenterprisesllc.com

CONTRACTOR ADDRESS: 311 Federal Hill Road, Jarrettsville, MD 21084 PHONE: 410-557-2455

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: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>90</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>3.0</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: 3-19-21 EXPIRATION DATE: 2-17-22

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

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.**

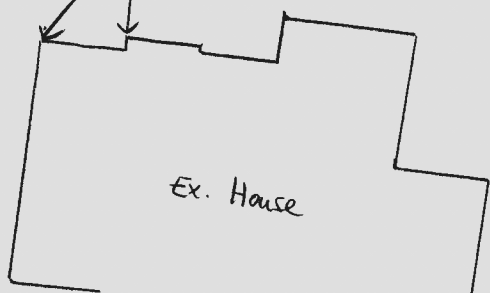
**CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

15629 Linden Grove Ln

(W) H0-17-0346

NOT TO SCALE

1"=30'



4" SCH 40 PVC  
SOLVENT WELDED

**TRENCH/DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
3'	2.5'	8'
NUMBER OF TRENCHES		2'
TOTAL LENGTH		90 F
ABSORPTION AREA		270 SF + SIDE WALL
DISTRIBUTION BOX LEVEL		SPEED
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 (WG) - 6" (DG)
BAFFLES	YES
BAFFLE FILTER	-
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	02/03/2021

**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	_____

**PRE-CONSTRUCTION:**

3/31/21 2x45' trenches were staked out on contour according to plan. (S)

INSTALLATION: 04/05/2021 SHC INSTALLED TO NEW TANK, SET; INSTALLED NEW D BOX CEMENTED BRICK AS BAFFLE, LEVELED W/ SPEED LEVELS; COMPLETED 2x45' TRENCHES. (H)

FINAL INSPECTOR

*Joseph Calabro*

DATE OF APPROVAL

04/05/2021

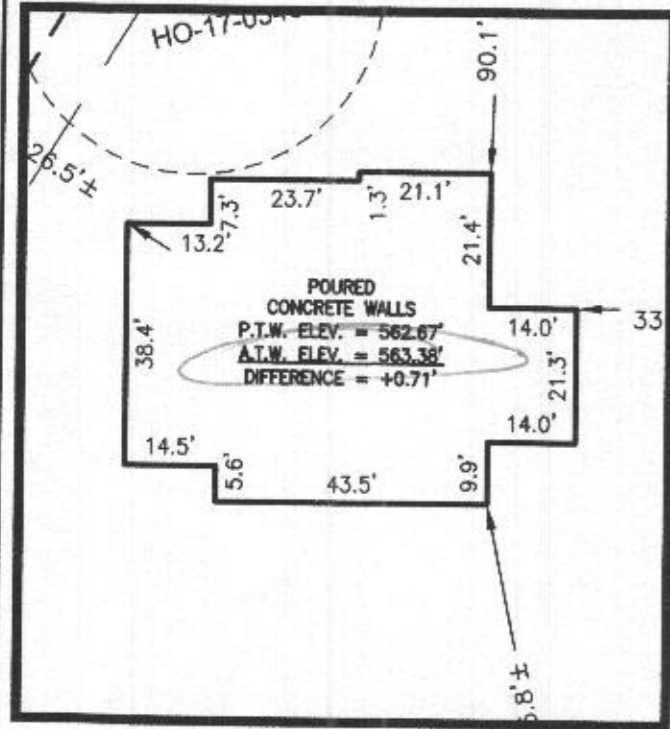


PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 01/08/2023.

**LEGEND:**

BRL BUILDING RESTRICTION LINE  
 (W) WELL LOCATION  
 P.T.W. PROPOSED TOP OF WALL  
 A.T.W. ACTUAL TOP OF WALL  
 ELEV. ELEVATION

 SEPTIC RESERVE AREA



HOUSE ENLARGEMENT  
 SCALE 1" = 30'

PERMIT NO.: B20002424

ADDRESS: 15629 LINDEN GROVE LANE  
 WOODBINE, MARYLAND 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.


NON-BUILDABLE  
 PRESERVATION  
 PARCEL 'B'

PRESERVATION PARCEL 'D'

**SURVEYOR'S CERTIFICATE**

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THIS IS NOT A "LOCATION DRAWING" AND IS NOT TO BE USED FOR SETTLEMENT PURPOSES.

 21328 02/07/2021  
 SIGNATURE: MICHAEL JOE BOYCE MD. LIC NO. DATE

WALLCHECK  
 LOT 7  
**LINDEN GROVE**  
 LIBER 01619, FOLIO 341  
 PLAT 25071  
 4TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**ESE CONSULTANTS**

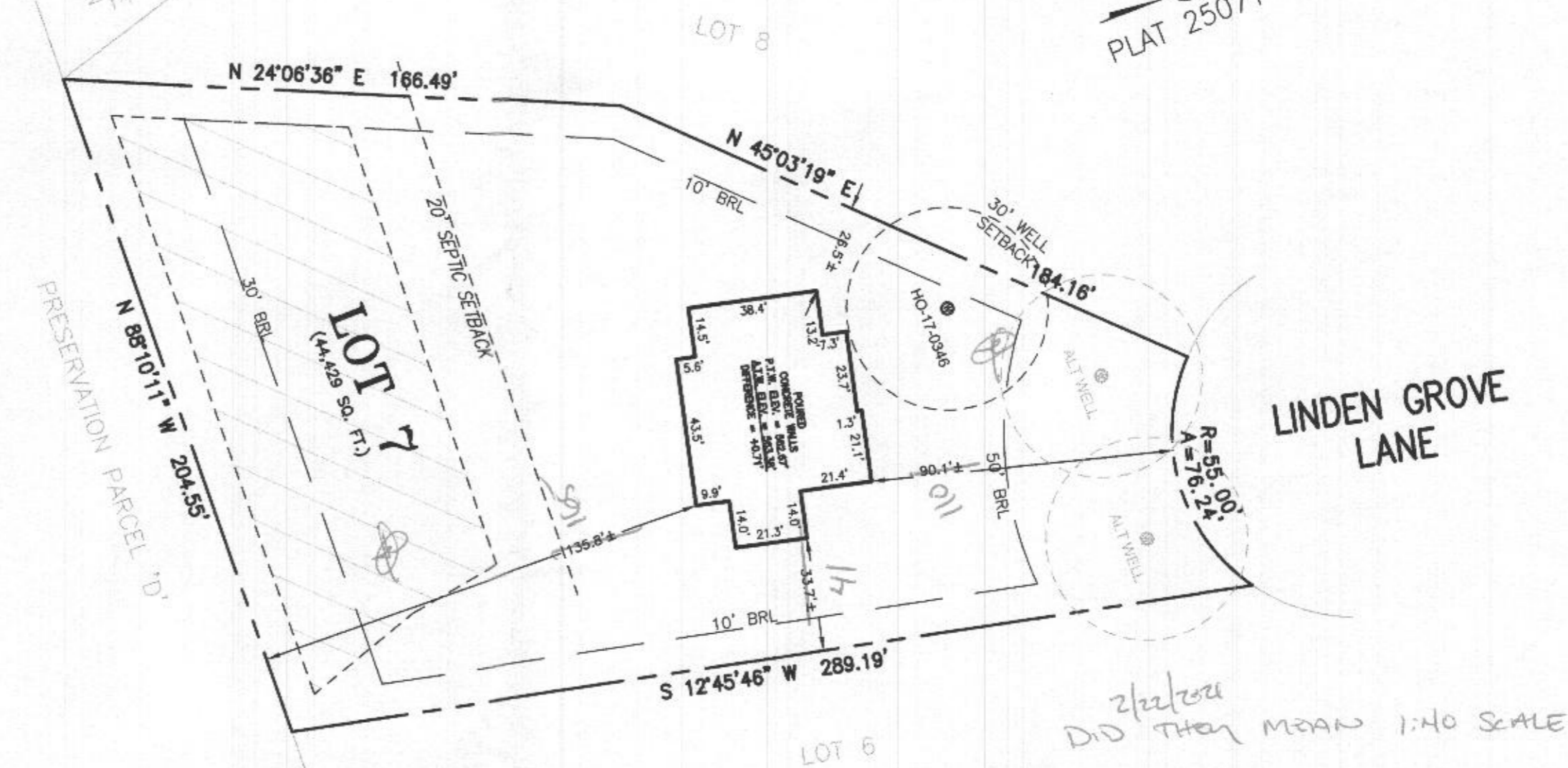
ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

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

DATE: 02/05/2021  
 CHK'D: M.J.B.

SCALE: 1" = 50'  
 JOB No: 4683

FILE: WC LOT 7  
 DRAWN: C.E.R.



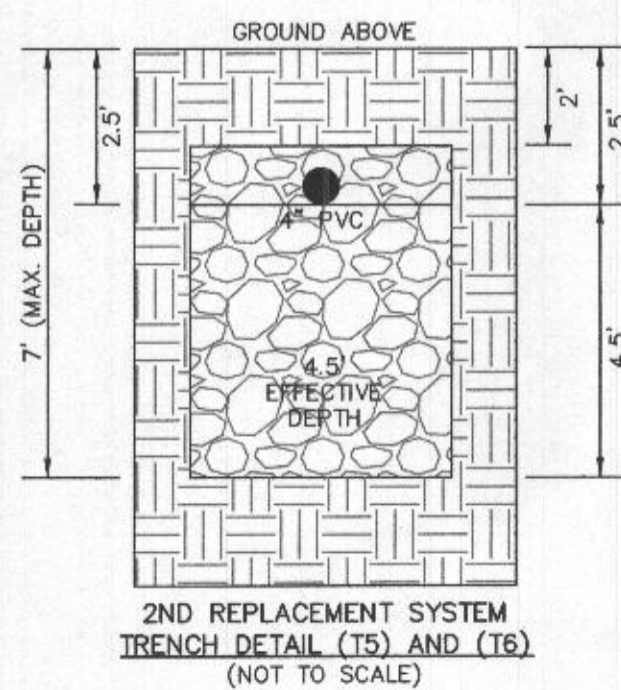
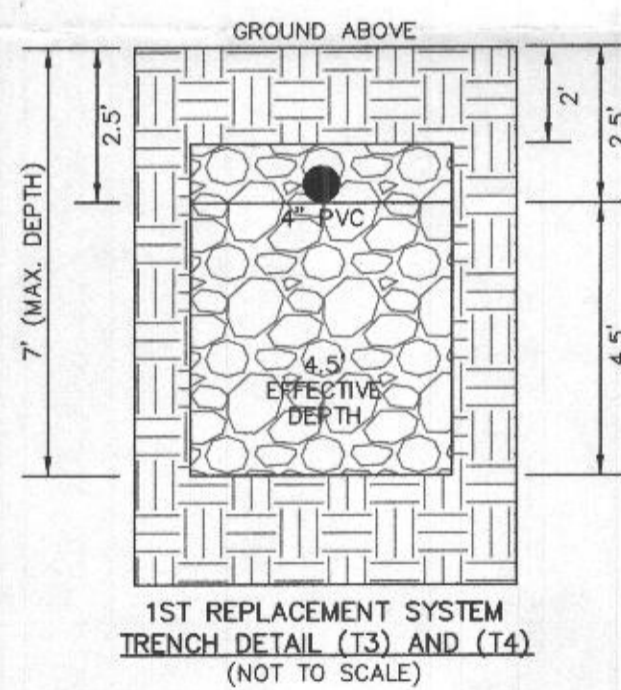
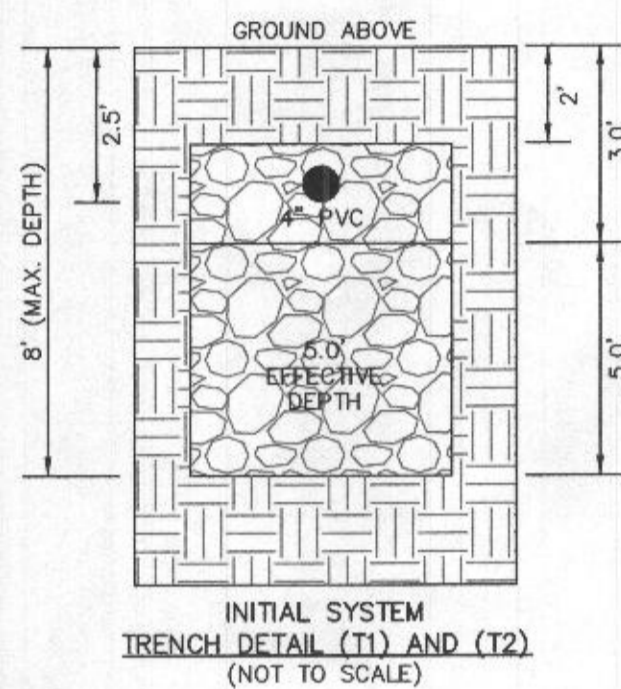
**HOUSE OPTIONS:**

HOUSE TYPE: DUMONT (FAIRVIEW)

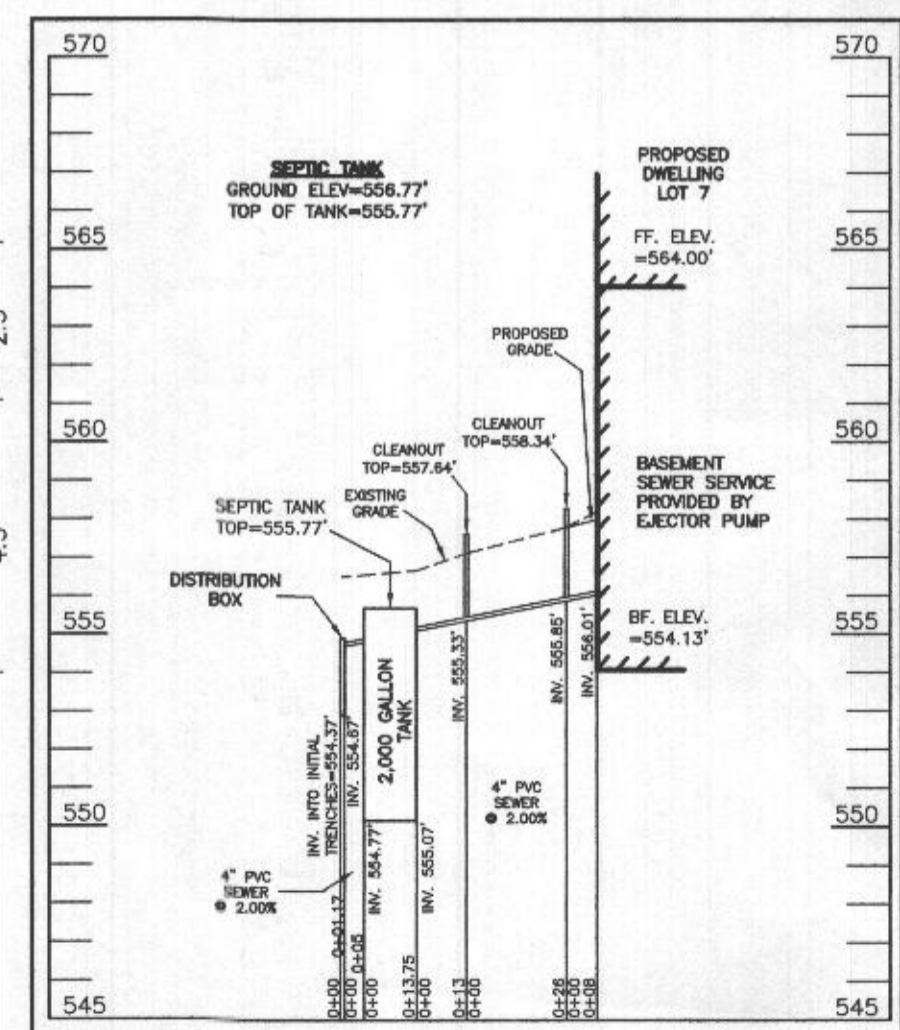
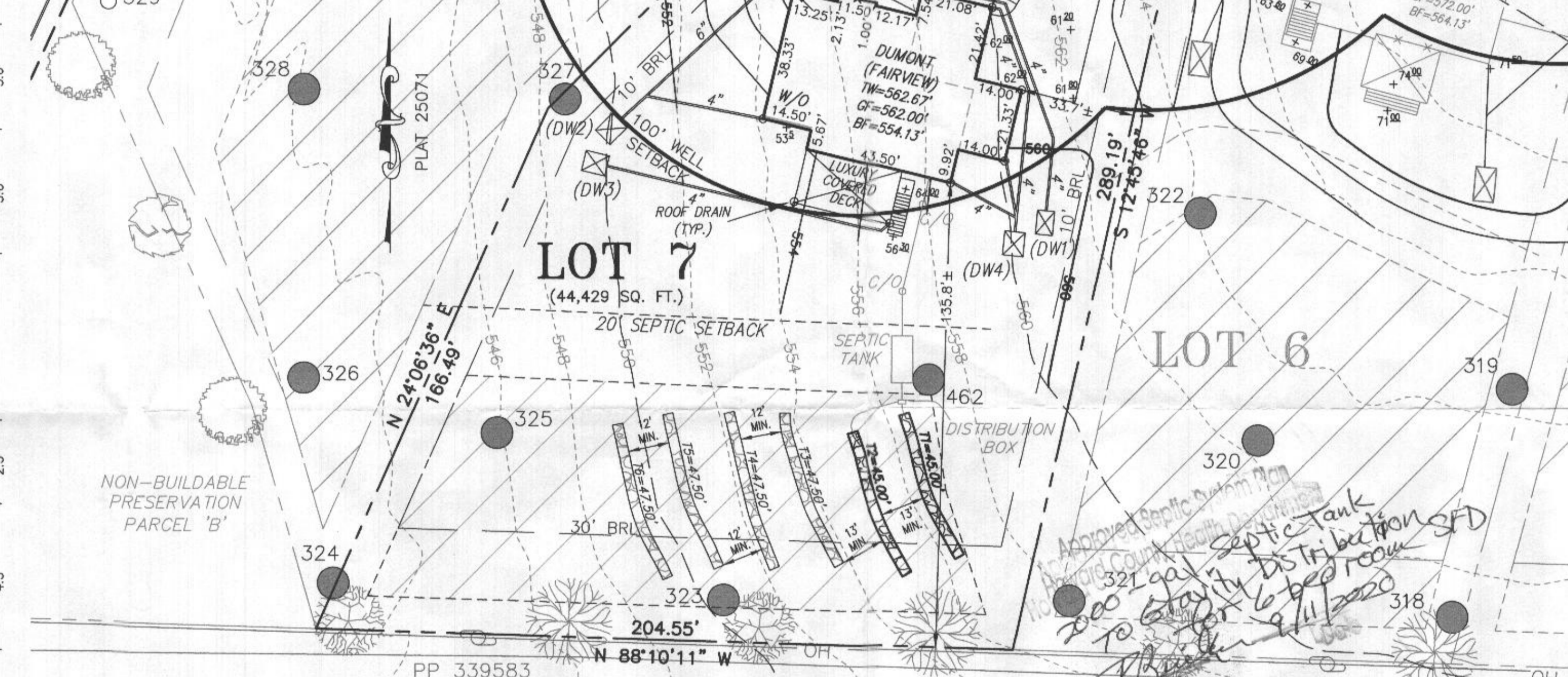
- TWO CAR SIDE ENTRY GARAGE
- WALK-OUT BASEMENT
- ADD'L 1' TO FOUNDATION WALL HEIGHT
- ADDITIONAL INTERIOR DOOR
- ADDITIONAL SINGLE WINDOW
- OPTIONAL DROP ZONE
- ADD'L ONE CAR FRONT ENTRY GARAGE
- WALK-OUT LUXURY COVERED DECK
- OPTION 030 ADDITIONAL WALK IN CLOSET
- DELETE DOUBLE DOORS OFF THE STUDY-CASED OPENING ONLY

**INITIAL TRENCH DATA:**

- BOTTOM MAX. DEPTH (8')
- TRENCH 1 (T1): 45 LF.**  
GROUND ABOVE = 556.40'  
INV. IN = 553.90'  
BOTTOM TRENCH = 548.40'
- TRENCH 2 (T2): 45 LF.**  
GROUND ABOVE = 555.15'  
INV. IN = 552.65'  
BOTTOM TRENCH = 547.15'



- OPTION NO. 012
- OPTION NO. 017
- OPTION NO. 070
- OPTION NO. 167
- OPTION NO. 187
- OPTION NO. 263081
- OPTION NO. 263102
- OPTION NO. 263169
- OPTION NO. 90007001
- OPTION NO. 90007010



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

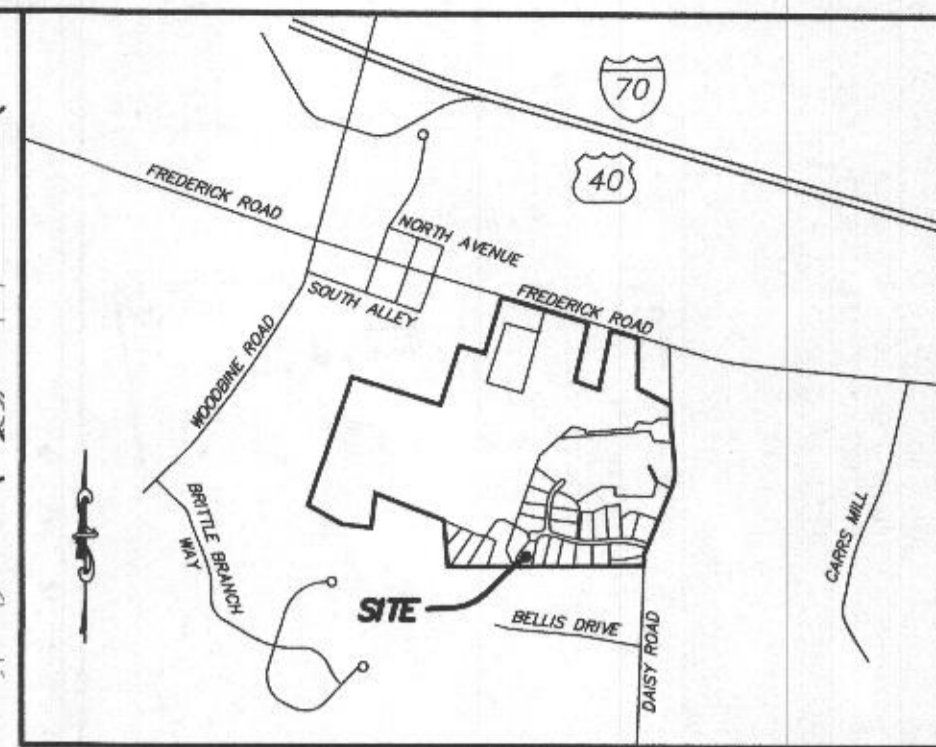
- PROPOSED INVERT AT FOUNDATION WALL: 556.01'
- 1. EX. GRADE OVER TANK: 556.77'  
PROPOSED GRADE OVER TANK: 556.77'  
INVERT IN: 555.07' INVERT OUT: 554.77'
- 2. DISTRIBUTION BOX  
EXISTING GRADE OVER TANK: 556.45'  
PROPOSED GRADE OVER TANK: 556.45'  
INVERT IN: 554.67' INVERT OUT: 554.37'
- 3. INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)  
900 GPD + 1.2 APP. RATE = 750 SF  
USE 3' WIDE TRENCH WITH 60" GRAVEL BELOW PIPE  
13' MIN. SPACING BETWEEN TRENCH EDGES  
750 SF + 3' WIDTH = 250 LF x 0.36 (SIDEWALL REDUCTION) = 90 LF MIN.  
USE 2 45' LONG TRENCHES = 90 LF
- 4. 1ST REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)  
900 GPD + 1.2 APP. RATE = 750 SF  
USE 3' WIDE TRENCH WITH 54" GRAVEL BELOW PIPE  
12' MIN. SPACING BETWEEN TRENCH EDGES  
750 SF + 3' WIDTH = 250 LF x 0.38 (SIDEWALL REDUCTION) = 95 LF MIN.  
USE 2 47.50' LONG TRENCHES = 95 LF
- 5. 2ND REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)  
900 GPD + 1.2 APP. RATE = 750 SF  
USE 3' WIDE TRENCH WITH 54" GRAVEL BELOW PIPE  
12' MIN. SPACING BETWEEN TRENCH EDGES  
750 SF + 3' WIDTH = 250 LF x 0.38 (SIDEWALL REDUCTION) = 95 LF MIN.  
USE 2 47.50' LONG TRENCHES = 95 LF



**WELL LOCATION CERTIFICATION:**

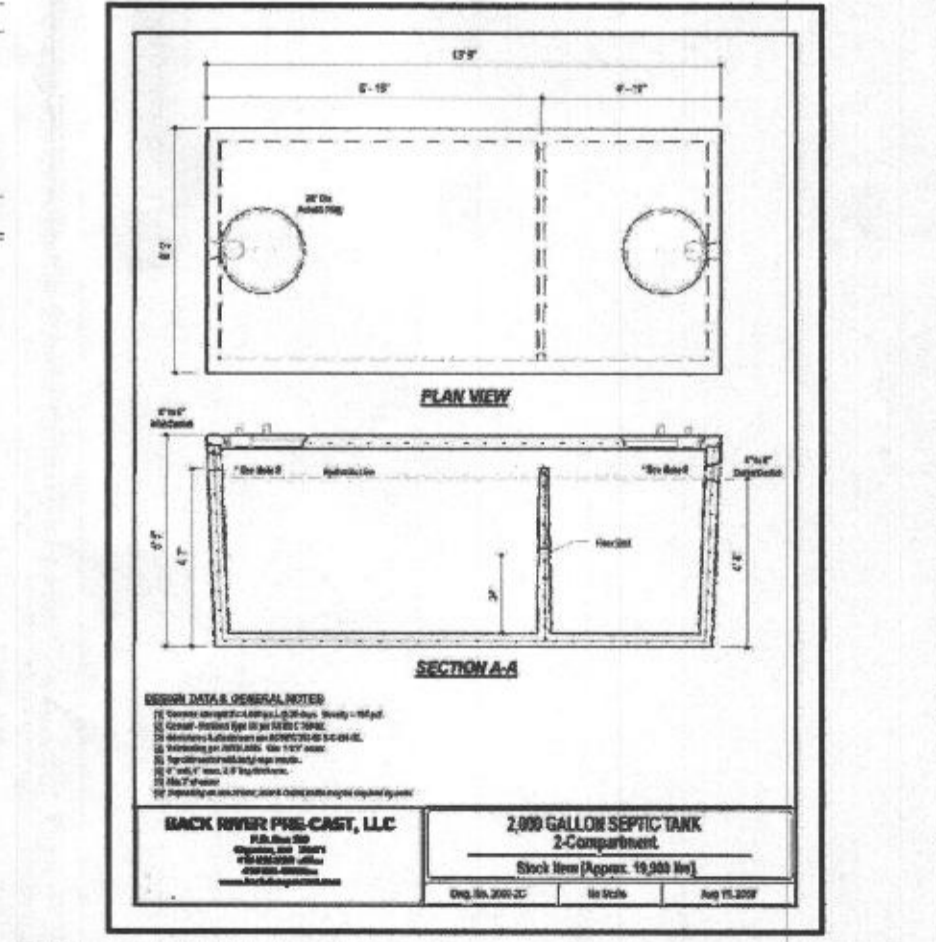
THE EXISTING WELL SHOWN FOR LOT 7 (TAG NO. HO-17-0346) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN  
**LOT 7**  
**LINDEN GROVE**  
 LIBER 15899, FOLIO 246  
 PLAT NO. 25071  
 ELECTION DISTRICT No. 4  
 HOWARD COUNTY, MARYLAND  
 ADDRESS: 15629 LINDEN GROVE LANE  
 WOODBINE, MARYLAND 21797



**GENERAL NOTES:**

1. 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.
2. 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.
3. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
4. BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.
5. 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.
6. THE MAXIMUM EARTH COVER OVER THE TANK IS THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
7. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
8. THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM HOWARD COUNTY GIS, 2' CONTOUR INTERVAL AND FIELD VERIFIED BY FISHER, COLLINS AND CARTER, INC.



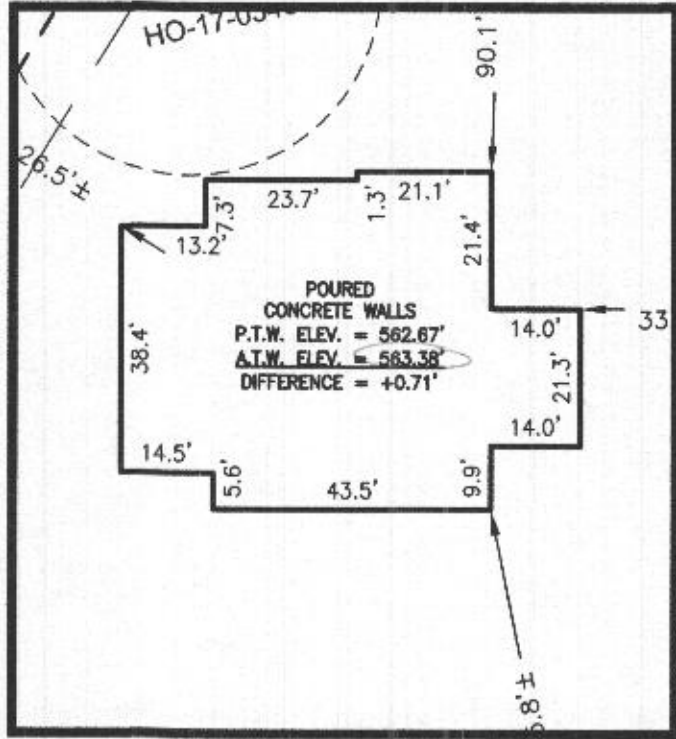
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 ESE Consultants, Inc.  
 7164 Columbia Gateway Drive • Suite 230 • Columbia, MD 21046  
 T: 410-872-9105

DATE: 08/15/2020 SCALE: 1" = 30' FILE: OSDS LOT 7\_rev1  
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: R.C.K.

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 01/08/2023.

**LEGEND:**

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- ⊙ WELL LOCATION
- P.T.W. PROPOSED TOP OF WALL
- A.T.W. ACTUAL TOP OF WALL
- ELEV. ELEVATION
- ▨ SEPTIC RESERVE AREA



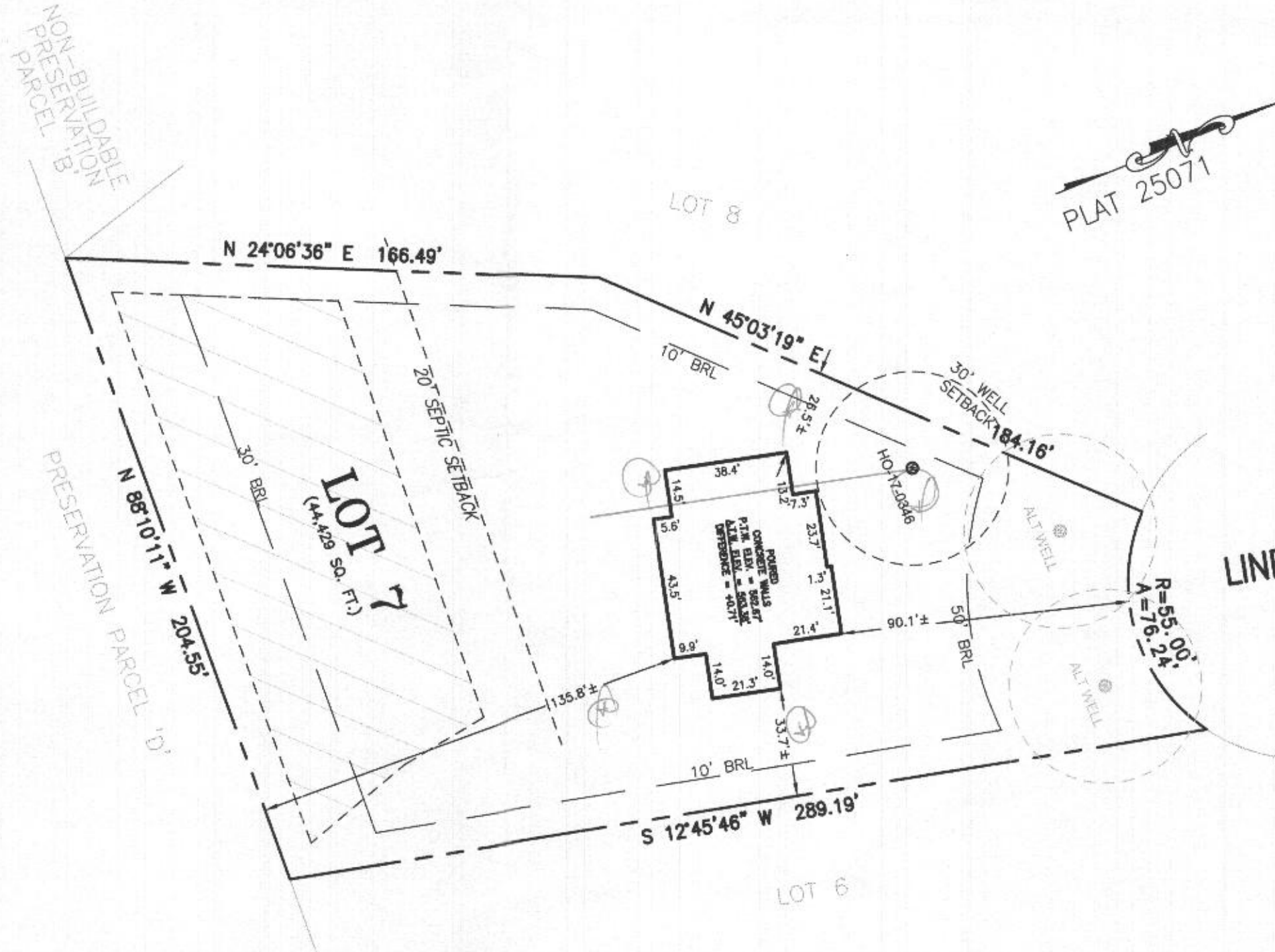
HOUSE ENLARGEMENT  
SCALE 1" = 30'

PERMIT NO.: B20002424

ADDRESS: 15629 LINDEN GROVE LANE  
WOODBINE, MARYLAND 21797

APPROVED   
03/19/2021

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21328 02/23/2021  
SIGNATURE: MICHAEL JOE BOYCE MD. LIC NO. DATE

WALLCHECK  
LOT 7  
**LINDEN GROVE**  
LIBER 01619, FOLIO 341  
PLAT 25071  
4TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

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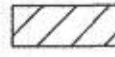
DATE: 02/23/2021 SCALE: 1"=40' FILE: WC LOT 7  
CHK'D: M.J.B. JOB No: 4683 DRAWN: C.E.R.

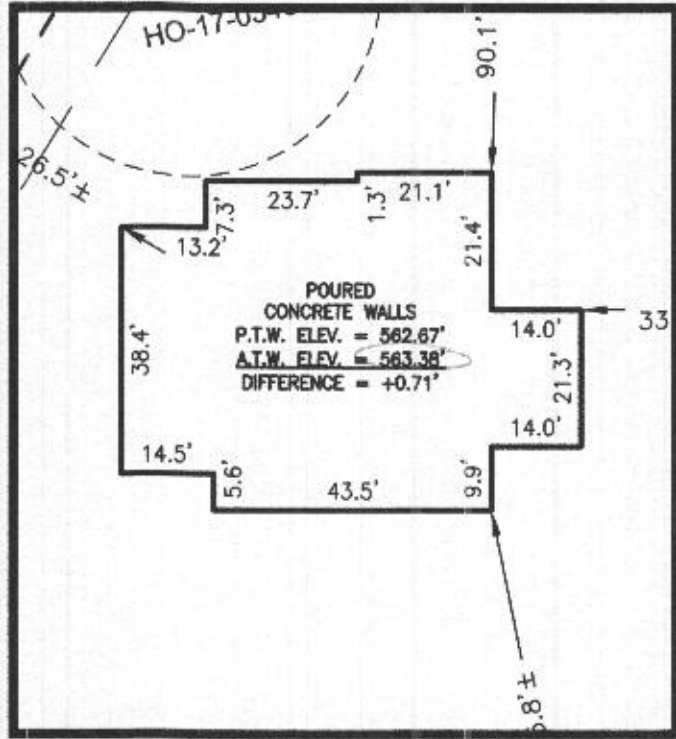


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
 SEPTIC RESERVE AREA



HOUSE ENLARGEMENT  
 SCALE 1" = 30'

PERMIT NO.: B20002424

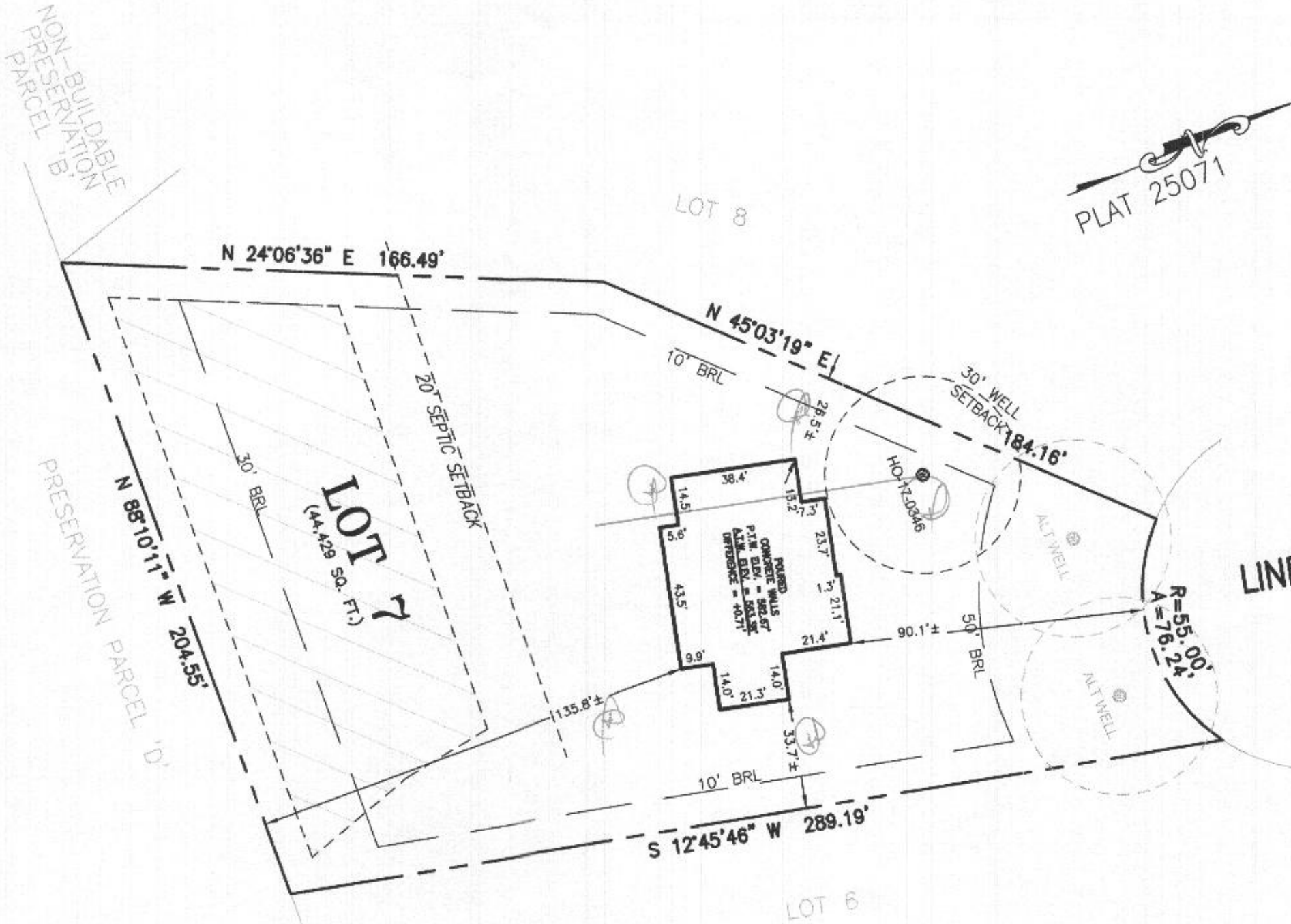
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APPROVED   
 03/19/2021

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NON-BUILDABLE  
 PRESERVATION  
 PARCEL 'B'

PRESERVATION PARCEL 'D'

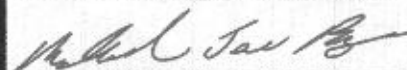


LINDEN GROVE  
 LANE

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 LOT 7  
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 T: 410-672-9105

DATE: 02/23/2021 SCALE: 1"=40' FILE: WC LOT 7  
 CHK'D: M.J.B. JOB No: 4683 DRAWN: C.E.R.



**LINDEN GROVE**  
**ENVIRONMENTAL SITE DESIGN COMPUTATIONS**

COMPANY: ESE CONSULTANTS, INC.

COMPUTATIONS BY: R.C.K./M.J.B.

DATE: 07/20/2020

**LOT 13 ESD CALCULATIONS:**

**DRY WELL 1 (DW1):**

A = (TOTAL DRAINAGE AREA) = 397 SQ. FT. (0.0091 ACRES)  
Pe = 1.0" (RAINFALL TARGET)  
(I) = (IMPERVIOUS AREA) = (IMPERVIOUS AREA ÷ DRAINAGE AREA)  
(0.0091 ÷ 0.0091) = 1.00 = 100%  
Rv = (THE DIMENSIONLESS VOLUMETRIC RUNOFF COEFFICIENT)  
0.05 + (0.009 x (I)) = 0.05 + (0.009 x (100%)) = 0.95  
Qe = (RUNOFF DEPTH IN INCHES THAT MUST BE TREATED)  
(Pe x Rv) = (1.0 x 0.95) = 0.95 INCHES  
ESDv = RUNOFF VOLUME (IN ACRES- FEET)  
(Pe) x (Rv) x (A) ÷ 12  
(1.0) x (0.95) x (397) ÷ 12 = 377.15 ÷ 12 = 31.43 CF.

**DRY WELL 2 (DW2):**

A = (TOTAL DRAINAGE AREA) = 844 SQ. FT. (0.0194 ACRES)  
Pe = 1.0" (RAINFALL TARGET)  
(I) = (IMPERVIOUS AREA) = (IMPERVIOUS AREA ÷ DRAINAGE AREA)  
(0.0194 ÷ 0.0194) = 1.00 = 100%  
Rv = (THE DIMENSIONLESS VOLUMETRIC RUNOFF COEFFICIENT)  
0.05 + (0.009 x (I)) = 0.05 + (0.009 x (100%)) = 0.95  
Qe = (RUNOFF DEPTH IN INCHES THAT MUST BE TREATED)  
(Pe x Rv) = (1.0 x 0.95) = 0.95 INCHES  
ESDv = RUNOFF VOLUME (IN ACRES- FEET)  
(Pe) x (Rv) x (A) ÷ 12  
(1.0) x (0.95) x (844) ÷ 12 = 801.80 ÷ 12 = 66.82 CF.

**LOT 13 ESD SPECIFICATIONS:**

**DRY WELL 1 (LESS THAN 1,000 SQ. FT)**  
DRAINAGE AREA = 397 SQ. FT.  
PROPOSED IMPERVIOUS AREA = 937 SQ. FT.  
STORAGE AREA = (LENGTH x WIDTH x DEPTH x 0.40)  
(5L x 4W x 4D x 0.4) = 32 CF  
TOTAL STORAGE AREA = 84 CF

**\*ESD TO THE MEP IS MET**

**DRY WELL 2 (LESS THAN 1,000 SQ. FT)**  
DRAINAGE AREA = 394 SQ. FT.  
PROPOSED IMPERVIOUS AREA = 394 SQ. FT.  
STORAGE AREA = (LENGTH x WIDTH x DEPTH x 0.40)  
(7L x 6W x 4D x 0.4) = 67.20 CF  
TOTAL STORAGE AREA = 67.20 CF

**\*ESD TO THE MEP IS MET**

**LOT 13**

ESD TO THE MEP  
HYDRAULIC SOIL GROUP = B  
Pe = 1"

**DRAINAGE AREA 1 (PART OF DWELLING): (397 SQ. FT.)**  
PRACTICE: (2 ROOF DRAINS) ROOFTOP DISCONNECT TO **DRY WELL 1**  
ESDV = 31.43 CF  
DRY WELL 1 (DW1) = 5L X 4W X 4D X 0.4 = 32 CF

**DRAINAGE AREA 2 (PART OF DWELLING): (844 SQ. FT.)**  
PRACTICE: (3 ROOF DRAINS) ROOFTOP DISCONNECT TO **DRY WELL 2**  
ESDV = 66.82 CF  
DRY WELL 2 (DW2) = 7L X 6W X 4D X 0.4 = 67.20 CF

**DRAINAGE AREA 3 (PART OF DWELLING): (2,902 SQ. FT.)**  
PRACTICE: (8 ROOF DRAINS) ROOFTOP DISCONNECT  
75' FLOW FROM DOWNSPOUTS WITH GRADE AT OR BELOW 5% ACHIEVED

**DRAINAGE AREA 4 (DRIVEWAY PAD): (830 SQ. FT.)**  
PRACTICE: NON-ROOFTOP DISCONNECT  
1:1 RATIO TO IMPERVIOUS AREA TO TREAT DRIVEWAY PAD

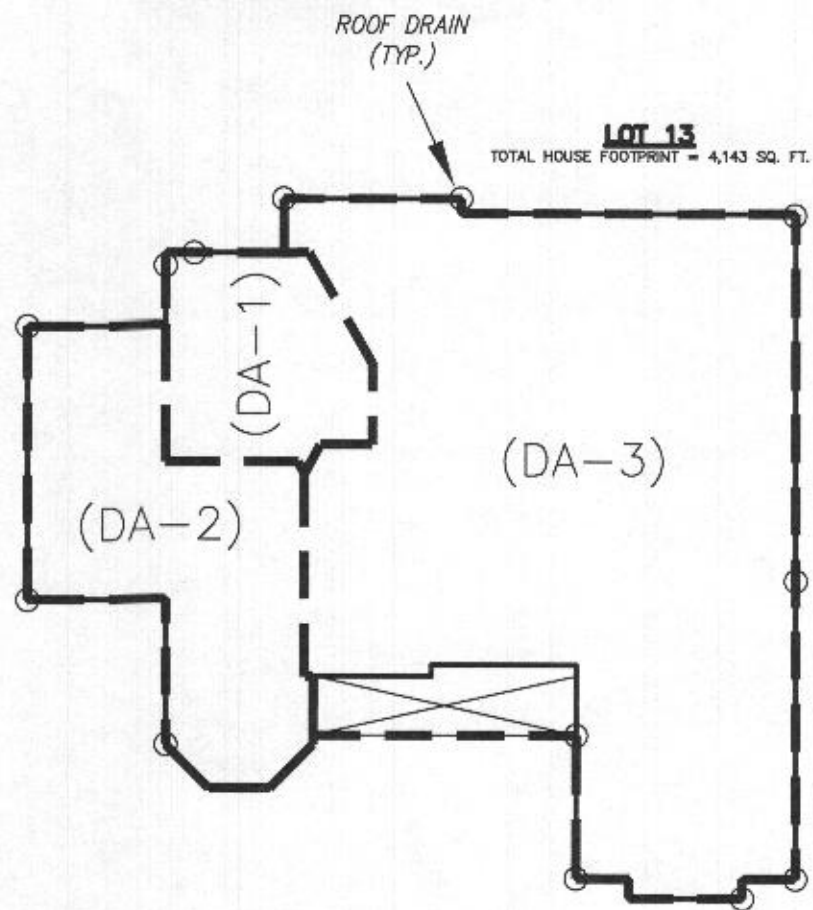
**DRAINAGE AREA 5 (DRIVEWAY): (1,081 SQ. FT.)**  
PRACTICE: NON-ROOFTOP DISCONNECT  
1:1 RATIO TO IMPERVIOUS AREA PROVIDED VIA 12' BUFFER ALONG SIDE CROSS SLOPED DRIVEWAY

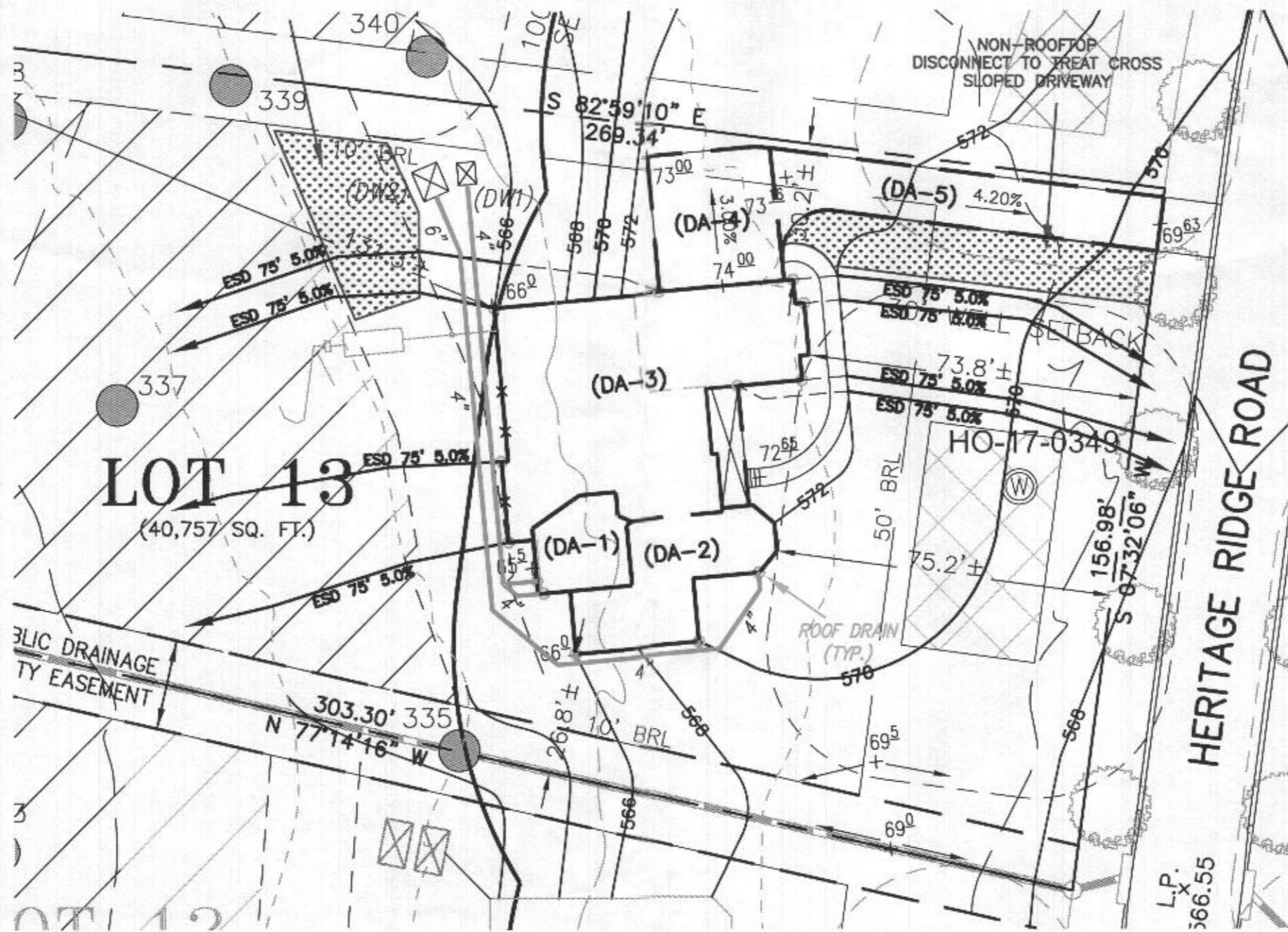
TOTAL IMPERVIOUS AREA TO BE TREATED: 6,054 SQ. FT.

HOUSE TYPE: RIDGEVIEW (LEXINGTON)

THREE CAR SIDE ENTRY GARAGE  
WALK-OUT BASEMENT  
CONSERVATORY ELITE ADDITION  
ADD 1' TO HEIGHT OF FOUNDATION WALLS  
ADDITIONAL BATH

OPTION No. 001  
OPTION No. 017  
OPTION No. 039  
OPTION No. 070  
OPTION No. 367





SCALE 1" = 30'