



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: 4-2-21 **ONSITE SEWAGE DISPOSAL SYSTEM** P 568838
 APPROVAL DATE: 6/25/21 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 15616 LINDEN GROVE LANE, WOODBINE, MD 21797
 SUBDIVISION: LINDEN GROVE, PHASE 1 LOT: 20 TAX ID: 04-601899
 CONTRACTOR: Charis Enterprises LLC EMAIL: _____
 CONTRACTOR ADDRESS: 3811 Federal Hill Rd, 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): 1500 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: 4 APPLICATION RATE: 0.6

TRENCHES:	LINEAR FEET REQUIRED: <u>140</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7.5</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>11</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.5</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 AT BEND IN SHC. INSTALL 'FEEDER' PIPE FROM DISTRIBUTION BOX TO EACH OF THREE LATERALS.	

ISSUED BY: R BRICKER ISSUE DATE: 4-2-21 EXPIRATION DATE: 4-2-22

- 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.**



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: 4/2/21 **ONSITE SEWAGE DISPOSAL SYSTEM** P 568833
 APPROVAL DATE: 6/25/21 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 15616 LINDEN GROVE LANE, WOODBINE, MD 21797
 SUBDIVISION: LINDEN GROVE, PHASE 1 LOT: 20 TAX ID: 04-601899
 CONTRACTOR: Oralis Enterprises LLC EMAIL: _____
 CONTRACTOR ADDRESS: 3811 Federal Hill Rd, Jonestown, 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): 1500 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: 4 APPLICATION RATE: 0.6

TRENCHES:	LINEAR FEET REQUIRED: <u>140</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7.5</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>11</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.5</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 AT BEND IN SHC. INSTALL 'FEEDER' PIPE FROM DISTRIBUTION BOX TO EACH OF THREE LATERALS.	

ISSUED BY: R BRICKER ISSUE DATE: 4-2-21 EXPIRATION DATE: 4-2-22

- 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.**



HOWARD COUNTY HEALTH DEPARTMENT

68833

DATE 4/22/11

Received From

Chavis E.H.

PHONE #

PS 410551-2455

For

Septic Permit/15616 Linden Grove Lane

CASH

CHECK

NO 21152

Three hundred fifty six Dollars

\$396.00


Received By

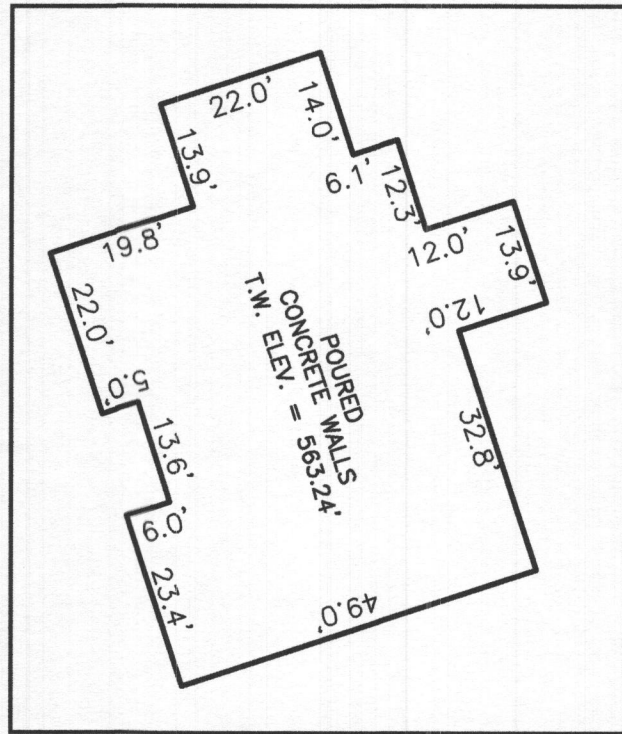
J King

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.

LEGEND:

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

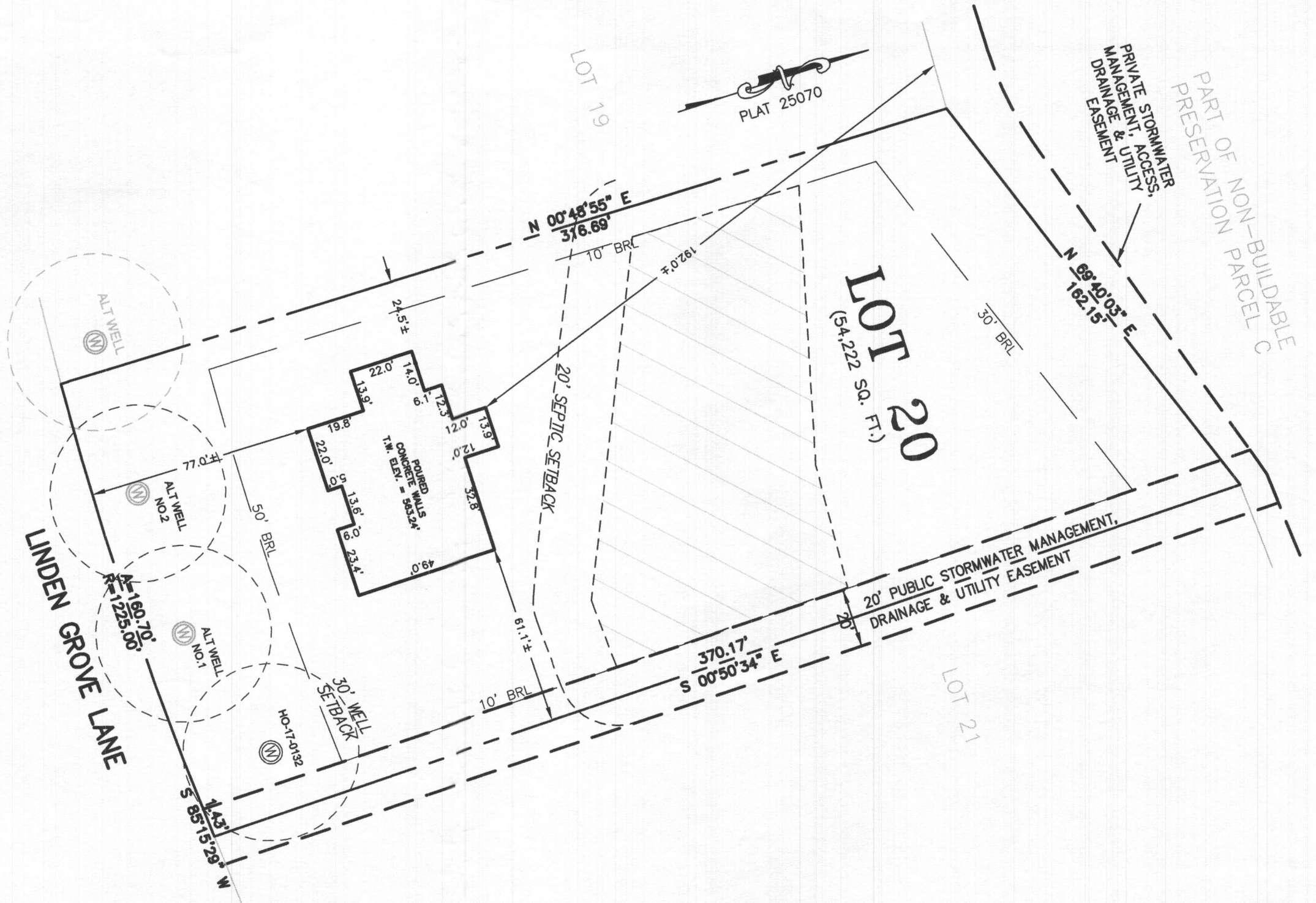
 SEPTIC RESERVE AREA



HOUSE ENLARGEMENT
NOT TO SCALE


PERMIT NO.: B20004130
 WELL NUMBER: HO-17-0132
 ADDRESS: 15616 LINDEN GROVE LANE
 WOODBINE, MD 21797

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.

 21328 3/15/21
 SIGNATURE: MICHAEL JOE BOYCE MD. LIC NO. DATE

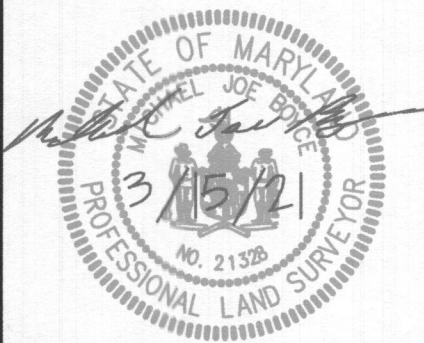
WALLCHECK
 LOT 20
LINDEN GROVE
 LIBER 19209, FOLIO 403
 PLAT NO. 25070
 ELECTION DISTRICT No. 4
 HOWARD COUNTY, MARYLAND

ESE CONSULTANTS

ENGINEERING • PLANNING • SURVEYING • ENVIRONMENT

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

DATE: 03/15/2021 SCALE: 1"=40' FILE: WC LOT 20
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.



HOUSE OPTIONS:

HOUSE TYPE: RENWICK (MODERN FARMHOUSE)
 TWO CAR SIDE ENTRY GARAGE CONFIGURATION
 FINISHED LOWER LEVEL
 WALK-OUT BASEMENT
 ADD'L 1' TO BSMT FOUNDATION WALLS
 OPTIONAL POWDER ROOM FOR FINISHED LOWER LEVEL
 OPTIONAL DROP ZONE
 ADD'L ONE CAR FRONT ENTRY GARAGE - 14'
 WALK-OUT LUXURY COVERED DECK

- OPTION NO. 012
- OPTION NO. 013
- OPTION NO. 017
- OPTION NO. 070
- OPTION NO. 263036
- OPTION NO. 263081
- OPTION NO. 263102
- OPTION NO. 263169

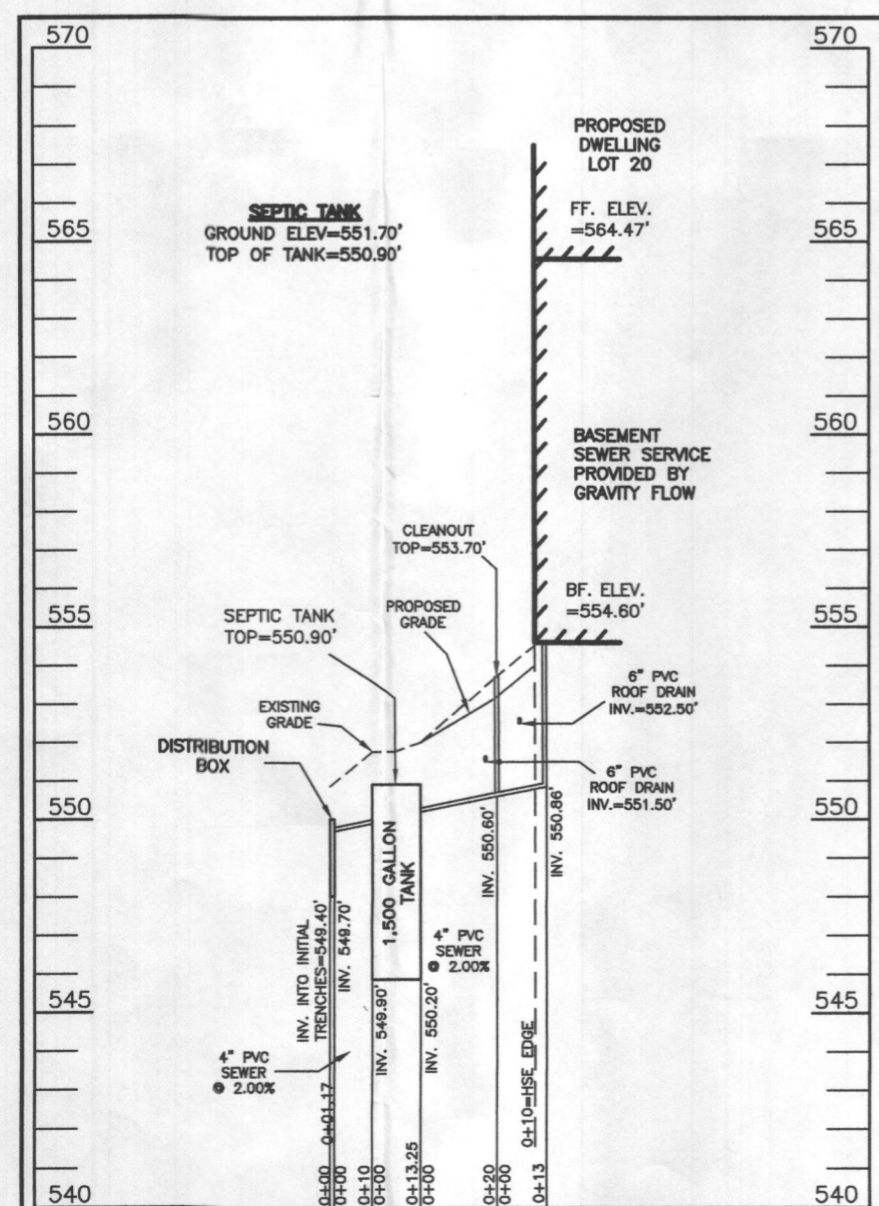
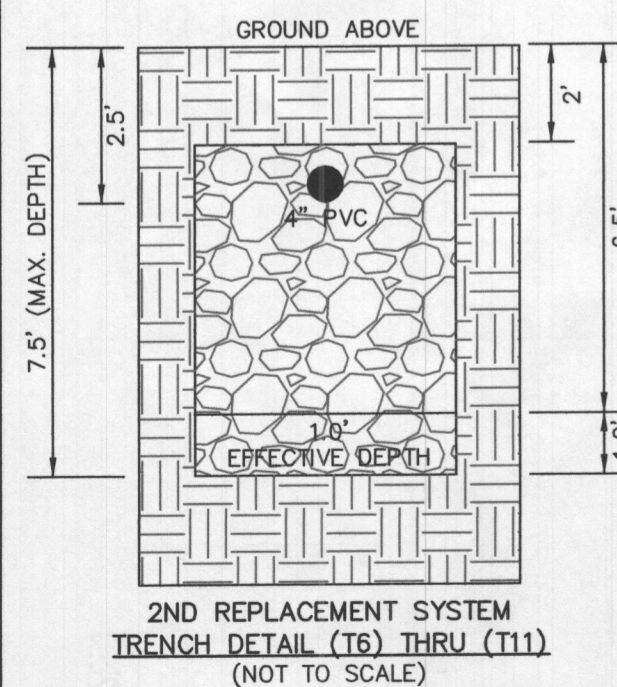
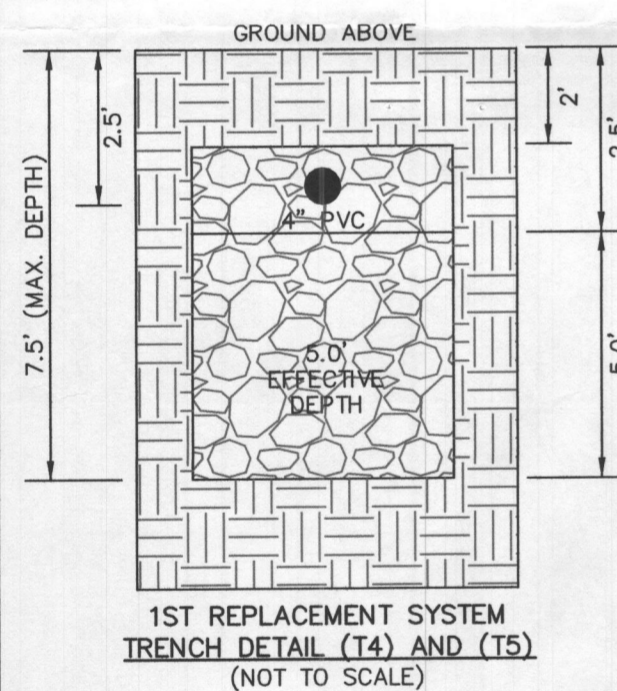
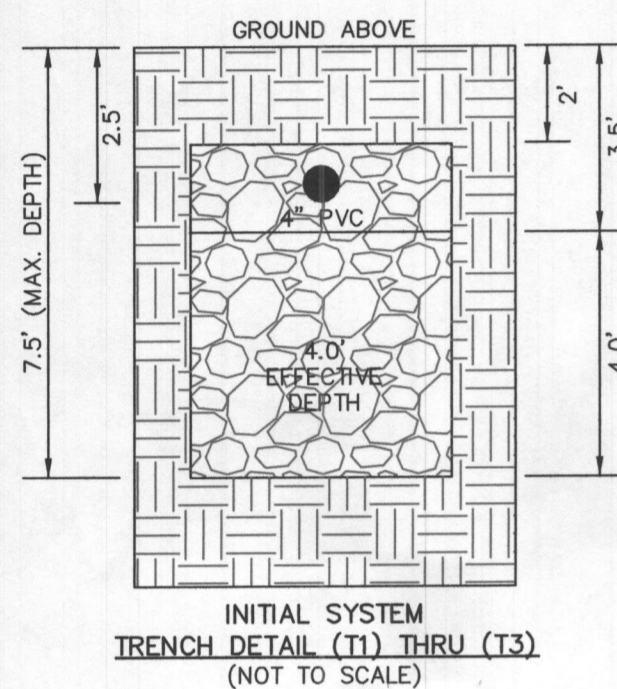
INITIAL TRENCH DATA:

BOTTOM MAX. DEPTH (7.5')

TRENCH 1 (T1): 46.75 LF.
 GROUND ABOVE = 550.90'
 INV. IN = 548.40'
 BOTTOM TRENCH = 543.40'

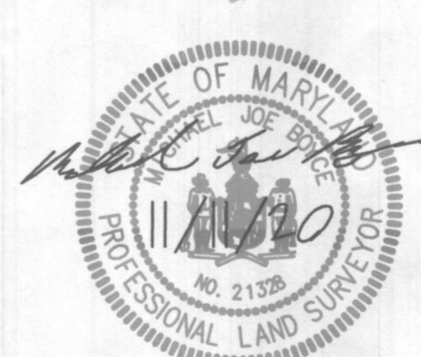
TRENCH 2 (T2): 46.75 LF.
 GROUND ABOVE = 550.20'
 INV. IN = 547.70'
 BOTTOM TRENCH = 542.70'

TRENCH 3 (T2): 46.75 LF.
 GROUND ABOVE = 550.20'
 INV. IN = 547.70'
 BOTTOM TRENCH = 542.70'



SEWAGE DISPOSAL SYSTEM DATA (4 BDRM):

- PROPOSED INVERT AT FOUNDATION WALL: 550.86'
- EX. GRADE OVER TANK: 551.70'
 PROPOSED GRADE OVER TANK: 551.70'
 INVERT IN: 550.20' INVERT OUT: 549.90'
 - DISTRIBUTION BOX
 EXISTING GRADE OVER TANK: 550.80'
 PROPOSED GRADE OVER TANK: 550.80'
 INVERT IN: 549.70' INVERT OUT: 549.40'
 - INITIAL TRENCH DESIGN (4 BDRM x 150 GPD/BDRM = 600 GPD)
 600 GPD ÷ 0.6 APP. RATE = 1,000 SF
 USE 3' WIDE TRENCH WITH 60" GRAVEL BELOW PIPE
 11' MIN. SPACING BETWEEN TRENCH EDGES
 1,000 SF ÷ 3' WIDTH = 333.33 LF x 0.42 (SIDEWALL REDUCTION) = 140 LF MIN.
USE 2-70' LONG TRENCHES = 140 LF
 - 1ST REPLACEMENT TRENCH DESIGN (4 BDRM x 150 GPD/BDRM = 600 GPD)
 600 GPD ÷ 0.8 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 1-90' LONG TRENCH = 90 LF
 - 2ND REPLACEMENT TRENCH DESIGN (4 BDRM x 150 GPD/BDRM = 600 GPD)
 600 GPD ÷ 0.6 APP. RATE = 1,000 SF
 USE 3' WIDE TRENCH WITH 60" GRAVEL BELOW PIPE
 10' MIN. SPACING BETWEEN TRENCH EDGES
 1,000 SF ÷ 3' WIDTH = 333.33 LF x 0.83 (SIDEWALL REDUCTION) = 276.67 LF MIN.
USE 6-46.25' LONG TRENCH = 277.50 LF



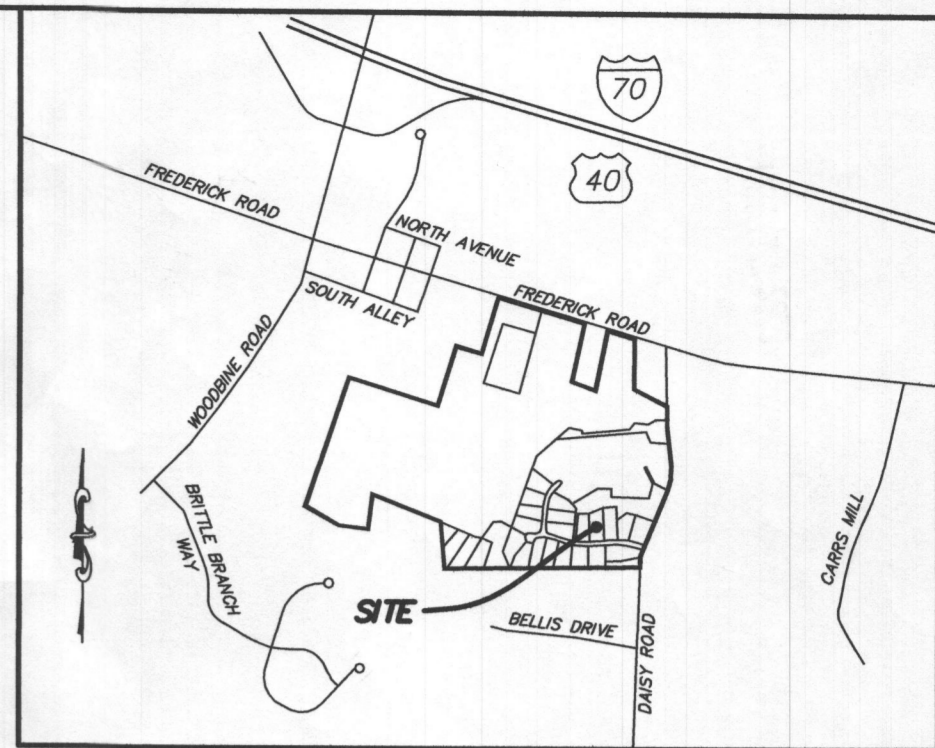
Approved Septic System Plan
 Howard County Health Department
 1500-gallon septic tank
 to Gravity Distribution
 for 4-Bedroom SFD
 RBielak nbc/2020
 Signature Date

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

WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 20 (TAG NO. HO-17-0132) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

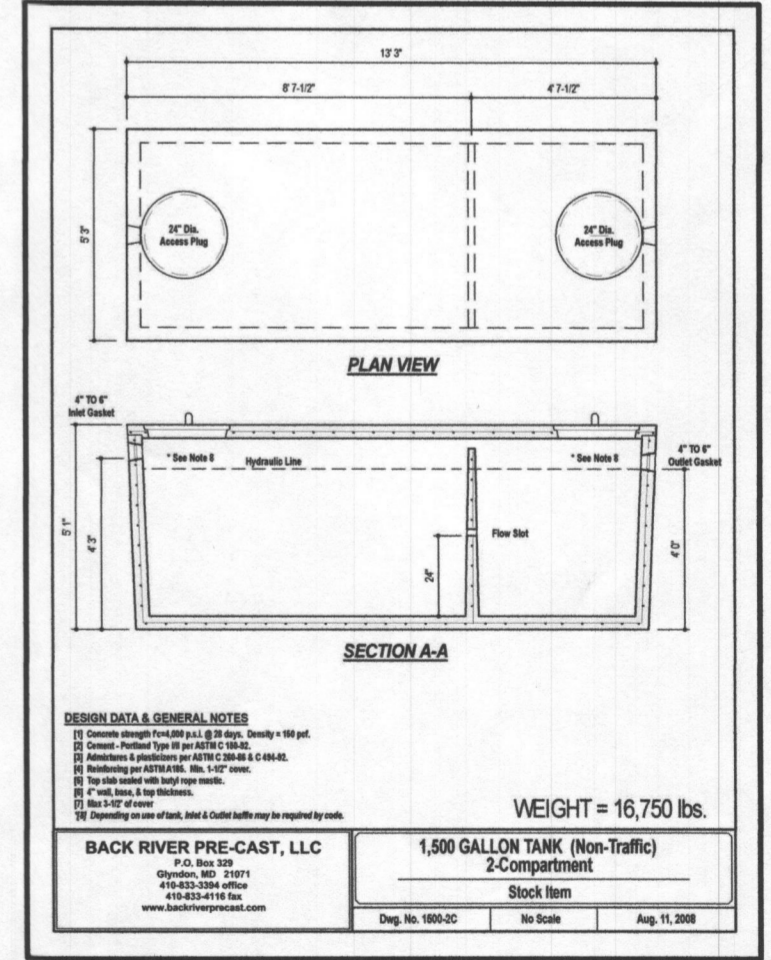
ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 20
LINDEN GROVE
 LIBER 19209, FOLIO 403
 PLAT NO. 25070
 ELECTION DISTRICT NO. 4
 HOWARD COUNTY, MARYLAND
 ADDRESS: 15616 LINDEN GROVE LANE
 WOODBINE, MARYLAND 21797



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: 410-872-9105

DATE: 11/06/2020 SCALE: 1"= 30' FILE: OSDS LOT 20
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: R.C.K.