

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: 2.7.22 **ONSITE SEWAGE DISPOSAL SYSTEM** P 570943
 APPROVAL DATE: 10/24/2022 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 13621 NOBLE WAY, HIGHLAND, MD 20777
 SUBDIVISION: THE ESTATES AT RIVER HILL LOT: 4 TAX ID: _____
 CONTRACTOR: Freedom Septic EMAIL: _____
 CONTRACTOR ADDRESS: 2809 Liberty Rd, Sykesville, MD 21784 PHONE: _____
 PROPERTY OWNER: ESTATES AT RIVER HILL LLC EMAIL: tkeane@trinityhomes.com
 OWNER ADDRESS: 3675 PARK AVE., SUITE 301, ELLICOTT CITY, MD 21043 PHONE: (443)324-9806

SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: MAYER BROS., INC.
 PUMP MODEL: GOULDS PUMP SIZE: 0.3 HP PUMP TANK CAPACITY: 1500

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>104</u>	INLET DEPTH: <u>2.0</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>5.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>2.0</u>

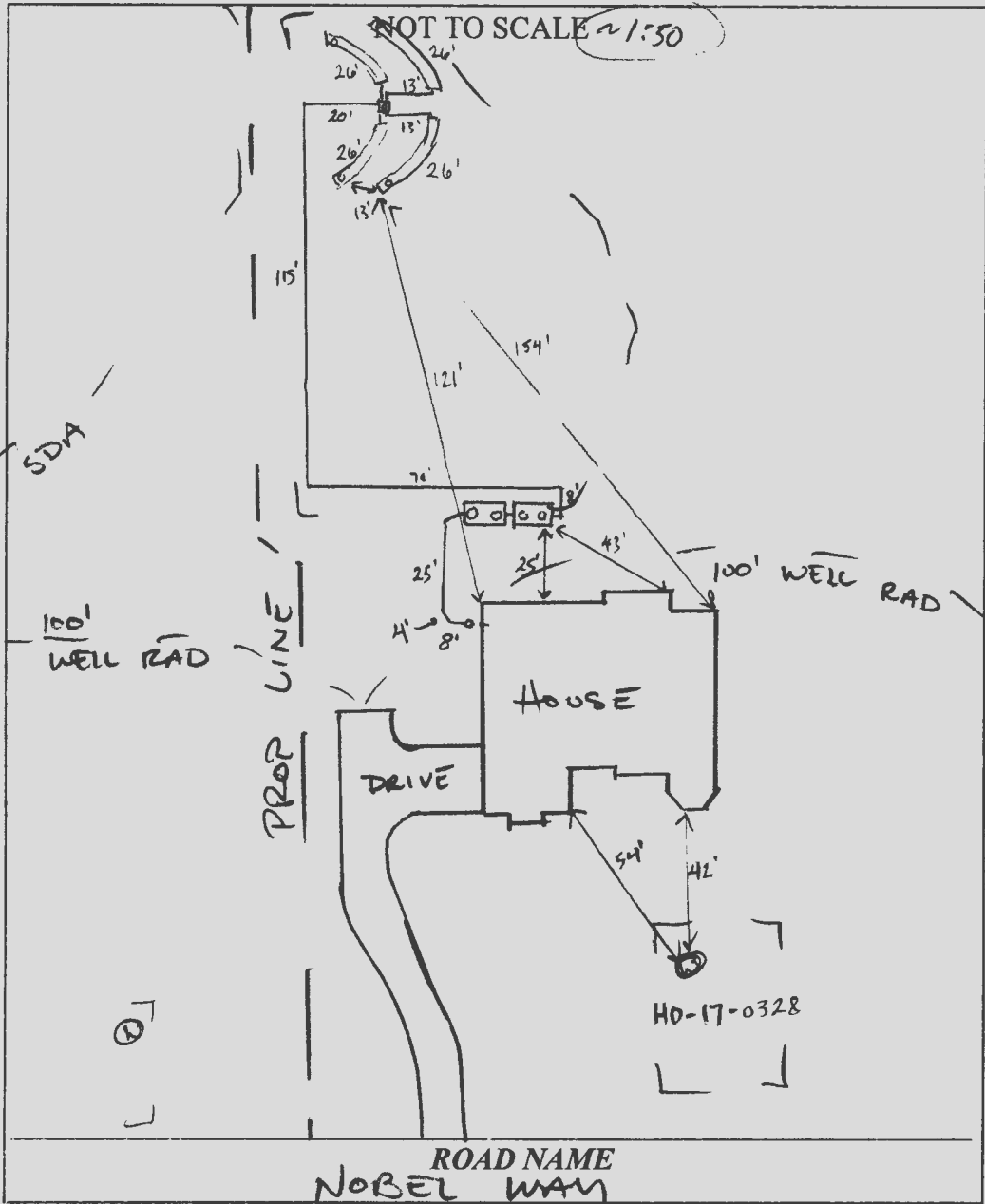
LOCATION: **PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.**

NOTES: **INSTALL CLEANOUTS IN SHC.**
*Install Force Main outside SDA after clearing tanks' locations. TB
 system must PASS a Pump & Alarm test for Final Approval
 @ installation. TB*

ISSUED BY: R BRICKER ISSUE DATE: 2.7.22 EXPIRATION DATE: 2.7.23

- 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 _____
- 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.**



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	2'	5'
NUMBER OF TRENCHES		4
TOTAL LENGTH		104'
ABSORPTION AREA		312 sq ft + sod wall
DISTRIBUTION BOX LEVEL		Pump
DISTRIBUTION BOX BAFFLE		90° in
DISTRIBUTION BOX PORT		PVC

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL yes

MANUFACTURER Babylon

CAPACITY 1500 GAL

SEAM LOC top

TANK LID DEPTH 3'-2'

BAFFLES inlet

BAFFLE FILTER -

MANHOLE LOC inlet + outlet

6" PORT LOC -

WATERTIGHT TEST -

SLOTTED yes

DATE ON LID 4-8-22

PUMP/SEPTIC TANK LEVEL yes

MANUFACTURER Babylon

CAPACITY 1500 GAL

SEAM LOC top

TANK LID DEPTH 2'-1'

BAFFLES inlet

BAFFLE FILTER -

MANHOLE LOC inlet + outlet

6" PORT LOC -

WATERTIGHT TEST -

SLOTTED -

DATE ON LID 3-1-22

PRE-CONSTRUCTION:
 2/8/22 SDA rol staked for layout. (S) 03/07/2022 CONFIRMED CENTER
 4x26' TRS (S)

INSTALLATION: 5/11/22 SL constructed and tanks set. FM constructed, D-box set. 4x26' trenches installed. Re-insp for SHC and P/A. (S)
 10/24/22 Pump and column test OK. system complete.

FINAL INSPECTOR [Signature] DATE OF APPROVAL 10/24/2022



HOWARD COUNTY HEALTH DEPARTMENT

70943

DATE 2/13/22

PS

Received From

Freedom Septic

PHONE #

410-745-2947

For

Septic Permits

13621 Write way

CASH

CHECK

NO.

5061

Three hundred ninety-eight

Dollars

\$

398 W

Received By

Skimp



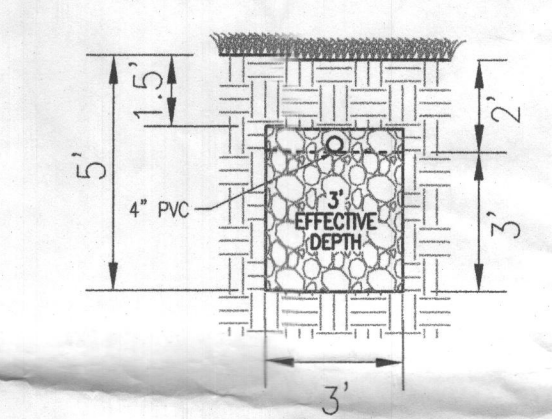
TRENCH	LENGTH	INT. BOTTOM OF TRENCH	EXISTING GROUND
1	26'	422.60	418.93
2	26'	421.93	418.93
3	26'	421.92	418.92
4	26'	421.92	418.92

SYSTEM CALCULATIONS:

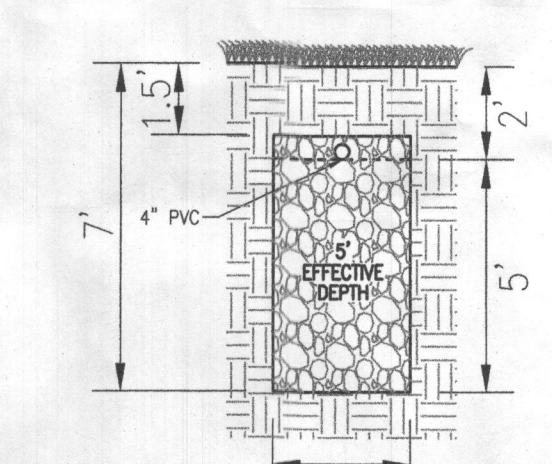
INITIAL SYSTEM:
 5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
 625 SQ. FT. / 3 (TRENCH WIDTH) x 50 (SIDEWALL REDUCTION) = 104 LINEAR FEET
 104 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE INITIAL SYSTEM.
 (2 TRENCHES OF 52 FEET IN LENGTH)

FIRST REPLACEMENT SYSTEM:
 5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
 625 SQ. FT. / 3 (TRENCH WIDTH) x 36 (SIDEWALL REDUCTION) = 75 LINEAR FEET
 75 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE FIRST REPLACEMENT SYSTEM.
 (1 TRENCH OF 75 FEET IN LENGTH)

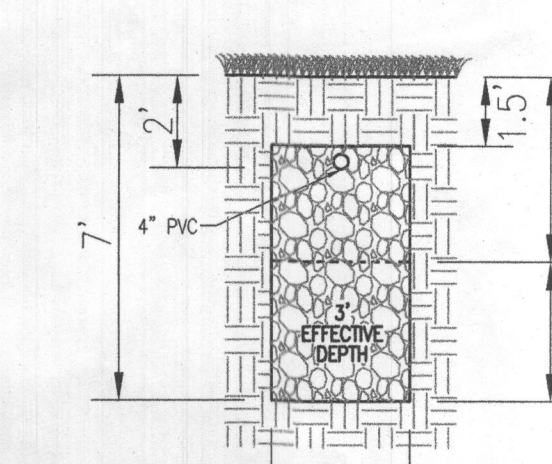
SECOND REPLACEMENT SYSTEM:
 5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
 625 SQ. FT. / 3 (TRENCH WIDTH) x 50 (SIDEWALL REDUCTION) = 104 LINEAR FEET
 104 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE SECOND REPLACEMENT SYSTEM.
 (2 TRENCHES OF 52 FEET IN LENGTH)



INITIAL SYSTEM TRENCH DETAIL
NOT TO SCALE



1ST REPLACEMENT SYSTEM TRENCH DETAIL
NOT TO SCALE

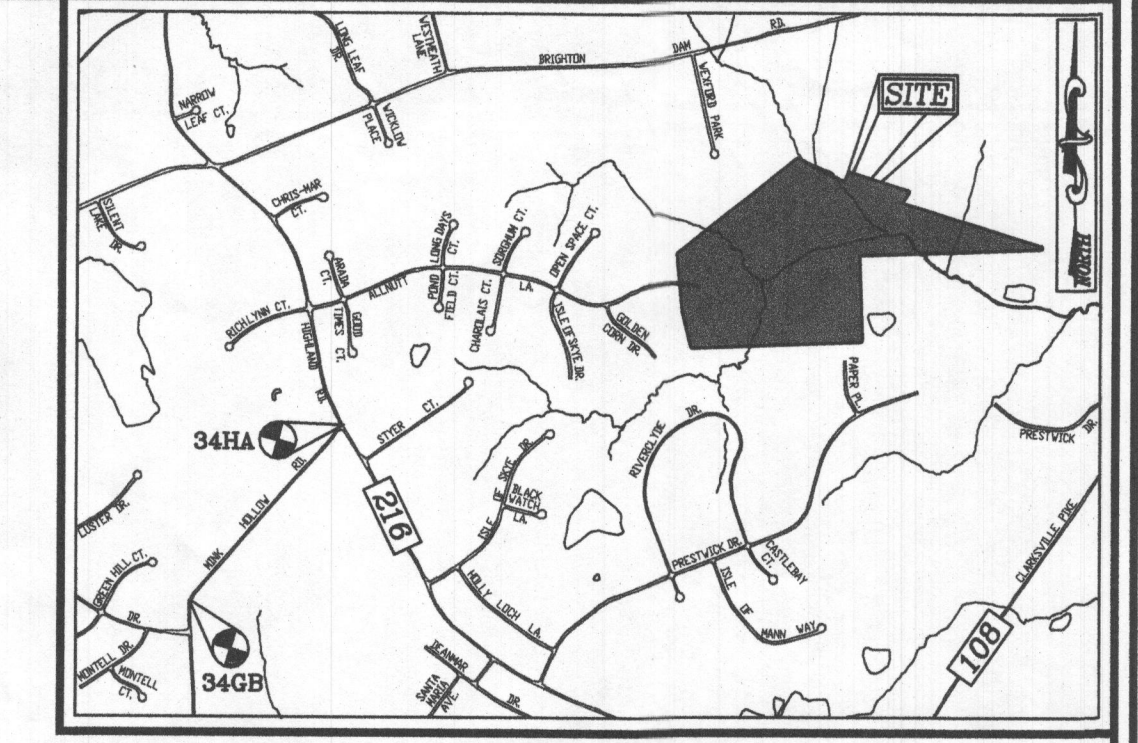


2ND REPLACEMENT SYSTEM TRENCH DETAIL
NOT TO SCALE

JINGLI YANG
PETER H. LI
 TM: 34 PARCEL: 393
 VAN T HOFF PROP.
 L: 11510 / F: 001
 PLAT: 12949
 LOT: 4
 5.71 AC.
 USE: RESIDENTIAL
 ZONED: RR-DEO

WELL LOCATION CERTIFICATION:
 THE EXISTING WELL SHOWN FOR LOT 4 (TAG #HO-17-0328)
 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN

THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.



VICINITY MAP
 SCALE: 1"=2000'
 ADC MAP: PAGE: 31 / GRID: B2, B3, & C2

BENCHMARKS
 HOWARD COUNTY BENCHMARK 34GB (CONC. MON.)
 N 553966.73 E 1317752.53 ELEV. 505.18
 LOCATION: MINK HOLLOW RD. 0.45 MI. SW OF HIGHLAND RD.
 HOWARD COUNTY BENCHMARK 34HA (CONC. MON.)
 N 555780.15 E 1319355.57 ELEV. 535.23
 LOCATION: CORNER OF HIGHLAND RD. & MINK HOLLOW RD.

LEGEND:

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- ADJACENT PROPERTY LINE
- EXISTING EDGE OF PAVING
- EXISTING STREAM BUFFER
- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING SPECIMEN TREES
- EXISTING WOOD FENCE
- EX. PUBLIC 100-YEAR FLOOD PLAIN
- PROP. PRIVATE USE-IN-COMMON ACCESS EASEMENT
- PROP. PRIVATE SWM, DRAINAGE & UTILITY EASEMENT
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- APPROVED SEWAGE DISPOSAL AREA (SDA)
- APPROVED WELL AREA
- EXISTING WELL
- APPROVED ALTERNATE WELL LOCATION
- PASSED PERC. TEST
- FAILED PERC. TEST

Approved Septic System Plan
 Howard County Health Department
 1500-gal Septic Tank & 1500-gal Pump Tank
 w/ Goulbs WE83 pump or equiv.
 Build 8/6/2021
 Signature Date
 to Gravity Distribution for 5-bedroom SFD

- GENERAL NOTES:**
- ANY CHANGE 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 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
 - ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
 - THE WELL (HO-17-0328) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
 - ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
 - ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 - THE EXISTING TOPOGRAPHY SHOWN HEREON IS TAKEN FROM HOWARD COUNTY GIS AND SUPPLEMENTED WITH FIELD RUN TOPOGRAPHICAL SURVEYS PREPARED BY ROBERT H. VOGEL ENGINEERING, INC., DATED MARCH AND MAY OF 2016.

OWNER
 ESTATES AT RIVER HILL, LLC
 MICHAEL PFALZ, MEMBER
 3675 PARK AVE., SUITE 301
 ELLICOTT CITY, MD 21043
 (410) 480-0023

DEVELOPER
 TRINITY HOMES MARY LAND, LLC
 3675 PARK AVE., SUITE 301
 ELLICOTT CITY, MD 21043
 (410) 480-0023

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
THE ESTATES AT RIVER HILL - LOT 4
 13621 NOBLE WAY
 HIGHLAND, MD 20777

PARCEL: 393 ZONED: RR-DEO
 TAX MAP: 34 GRID: 23 L: 18487 / F: 282
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
 +
TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 15193 EXPIRATION DATE: 09-27-2022

DESIGN BY: RHV
 DRAWN BY: JMR
 CHECKED BY: RHV
 DATE: AUGUST 2021
 SCALE: AS SHOWN
 W.O. NO.: 15-39

1 SHEET OF 2

