**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.orgFacebook: www.facebook.com/hocohealth

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 2/16/2023 **ONSITE SEWAGE DISPOSAL SYSTEM**PS 72792APPROVAL DATE: 2/28/2024 **PERMIT: CONSTRUCTION**

A

PROPERTY ADDRESS: 13601 NOBLE WAY, HIGHLAND, MD 20777SUBDIVISION: THE ESTATES AT RIVER HILLLOT: 9

TAX ID:

05-601937CONTRACTOR: Freedom Septic

EMAIL:

CONTRACTOR ADDRESS: 2809 Liberty Rd. Sykesville, MDPHONE: 410 795 2947PROPERTY OWNER: ESTATES AT RIVER HILL LLCEMAIL: tkane@trinityhomes.comOWNER ADDRESS: 3675 PARK AVE., SUITE 301, ELLICOTT CITY, MD 21043PHONE: (443)324-9806SEPTIC TANK SIZE (GALLONS): 1500TANK MANUFACTURER: MAYER BROS., INC.PUMP MODEL: n.a.

PUMP SIZE

n.a.PUMP TANK CAPACITY: n.a.DISTRIBUTION SYSTEM: ☒ GRAVITY ☐ PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>92</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>2</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>13</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>2.5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: ~~R. BRICKER~~ Robert Freeman ISSUE DATE: 2/17/2023 EXPIRATION DATE: 2/17/2024

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 DOWNGRADE 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.

NOT TO SCALE

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
2'	2.5'	8"
NUMBER OF TRENCHES		2
TOTAL LENGTH		92
ABSORPTION AREA		184 ft ²
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL

MANUFACTURER Orbital
CAPACITY 1500 GAL
SEAM LOC Top
TANK LID DEPTH 1.5'-1'
BAFFLES 6" Front & 4" back
BAFFLE FILTER _____
MANHOLE LOC Front & back
6" PORT LOC _____
WATERTIGHT TEST _____
SLOTTED yes
DATE ON LID 3/13/23

PUMP/SEPTIC TANK LEVEL N/A

MANUFACTURER _____
CAPACITY _____ GAL
SEAM LOC _____
TANK LID DEPTH _____
BAFFLES _____
BAFFLE FILTER _____
MANHOLE LOC _____
6" PORT LOC _____
WATERTIGHT TEST _____
SLOTTED _____
DATE ON LID _____

ROAD NAME

PRE-CONSTRUCTION:

3/23/2023 - Spoil piles found all over SOA. Could not do report. See Attached pictures for soil pits. SP

4/6/2023 Fill removed from SOA. Trenches shoring shot, w/in 2 inches. OK to install per plan. Contractor wanted to shoot tank but told him to just install per plan due to grade and proposed SP.

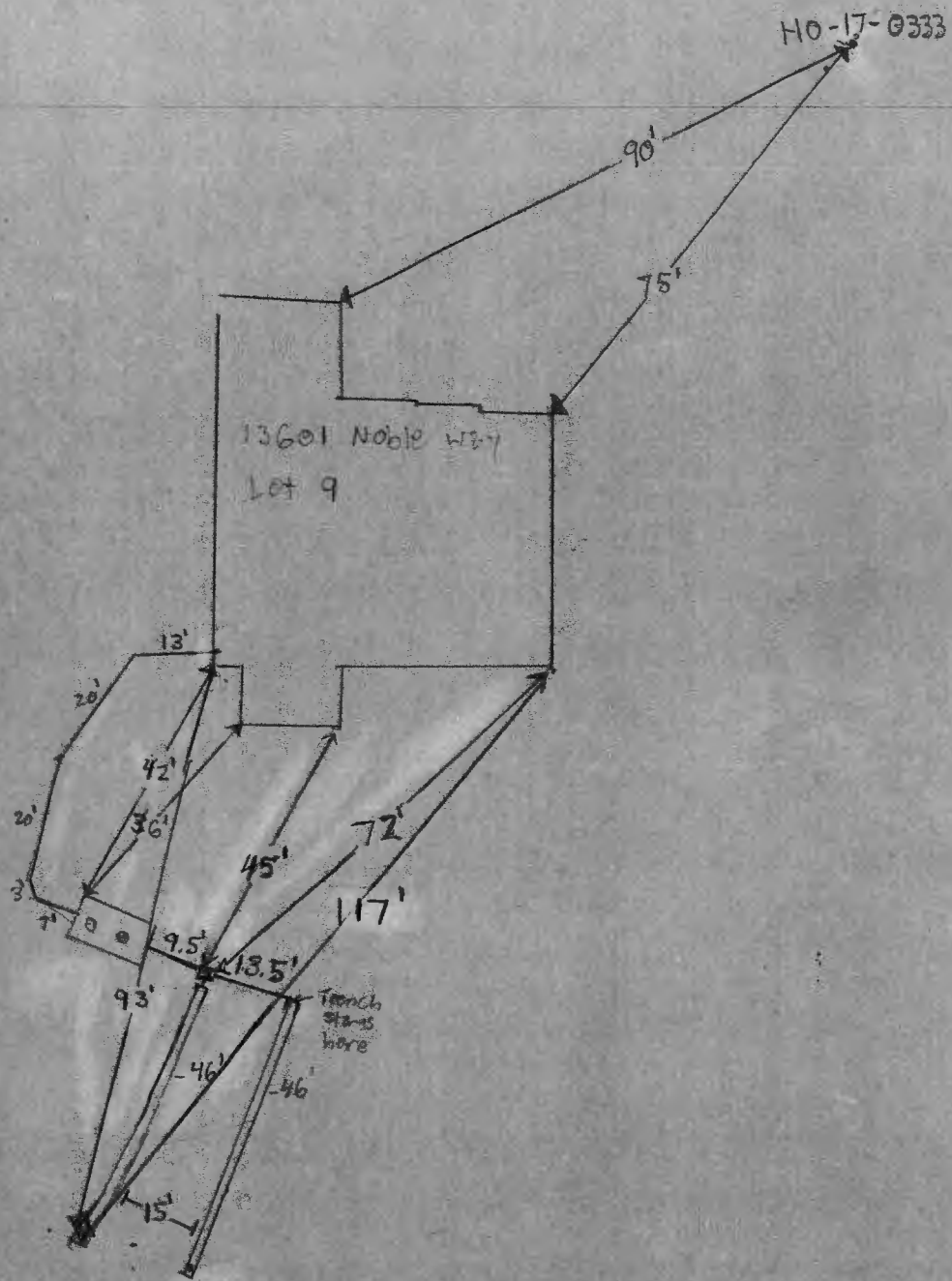
INSTALLATION. 4/11/2023 - Tank set, saw front baffle, slot, > 3' of cover. Reinspect for back baffle. Pipe from house to tank used SCH40 40 PR. Reinspect for C/O from foundation, trenches, D-box, & D-box level test. SP 4/12/2023 - Saw back baffle. D-box set. Levelled D-box. Trench width & inlet per plan. Stone & fabric OK. Gave OK to backfill. Reinspect for C/O from foundation. SP C/O verified w/ builder 2/28/2024 K

FINAL INSPECTOR

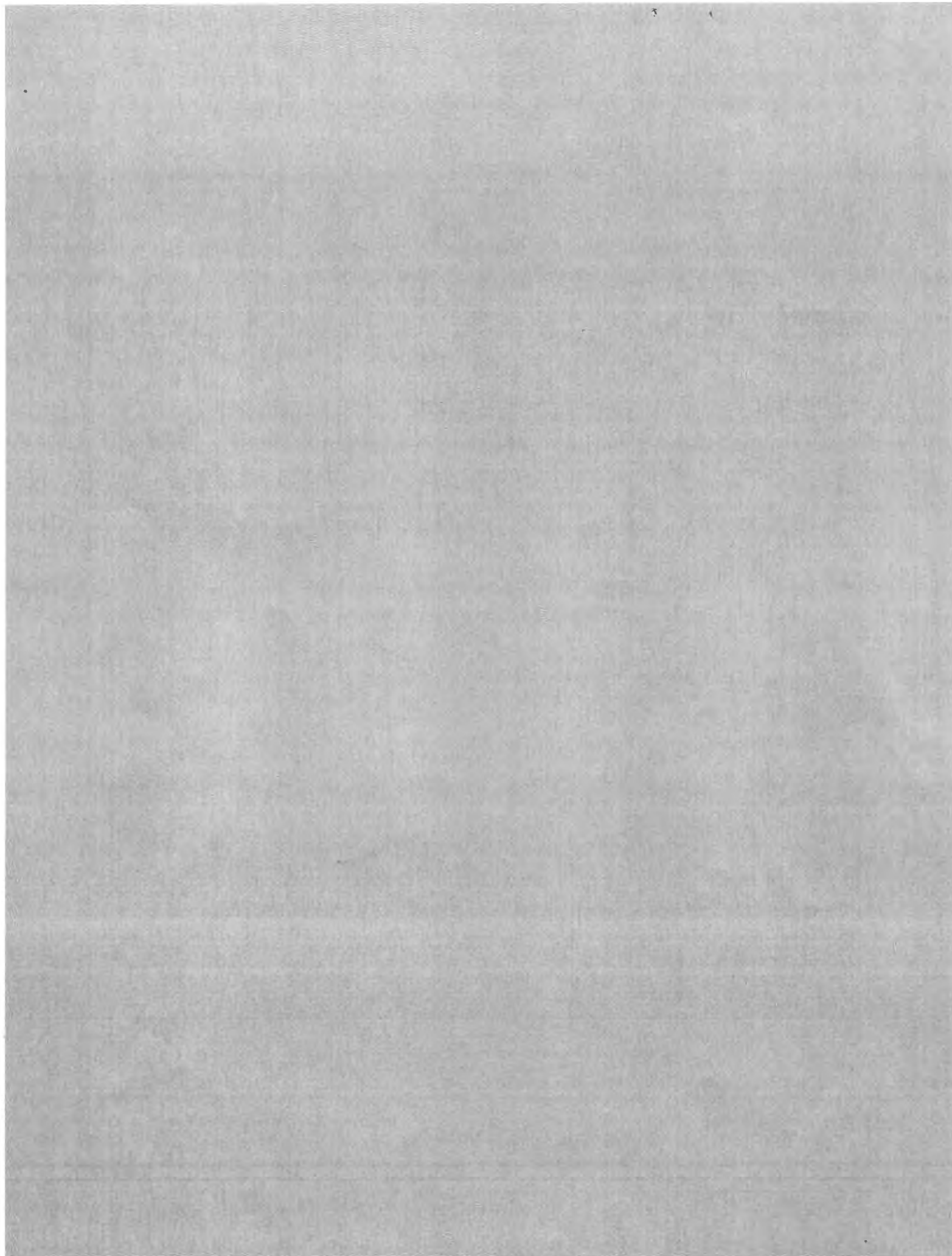
K. [Signature]

DATE OF APPROVAL

2/28/2024

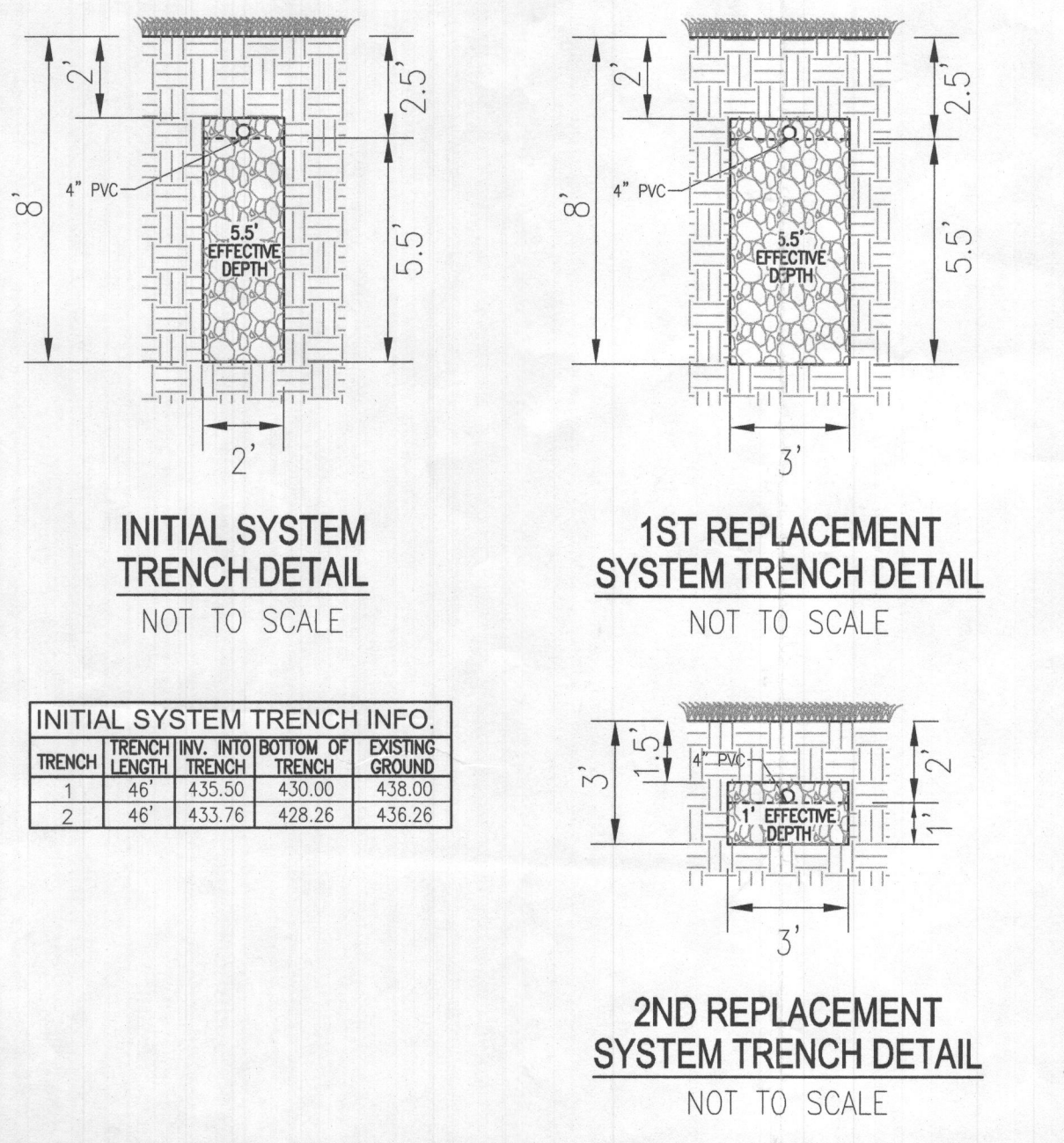
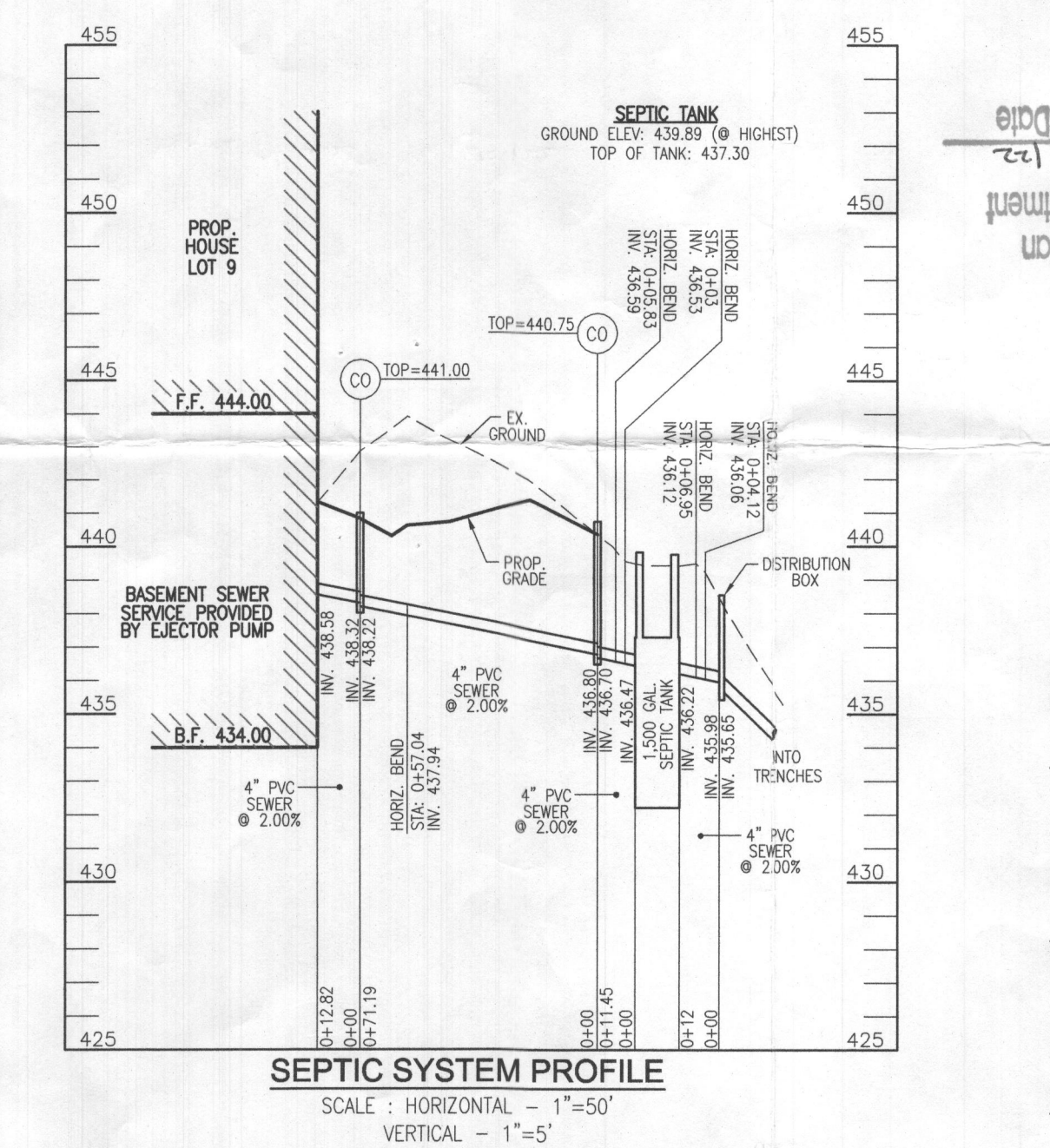
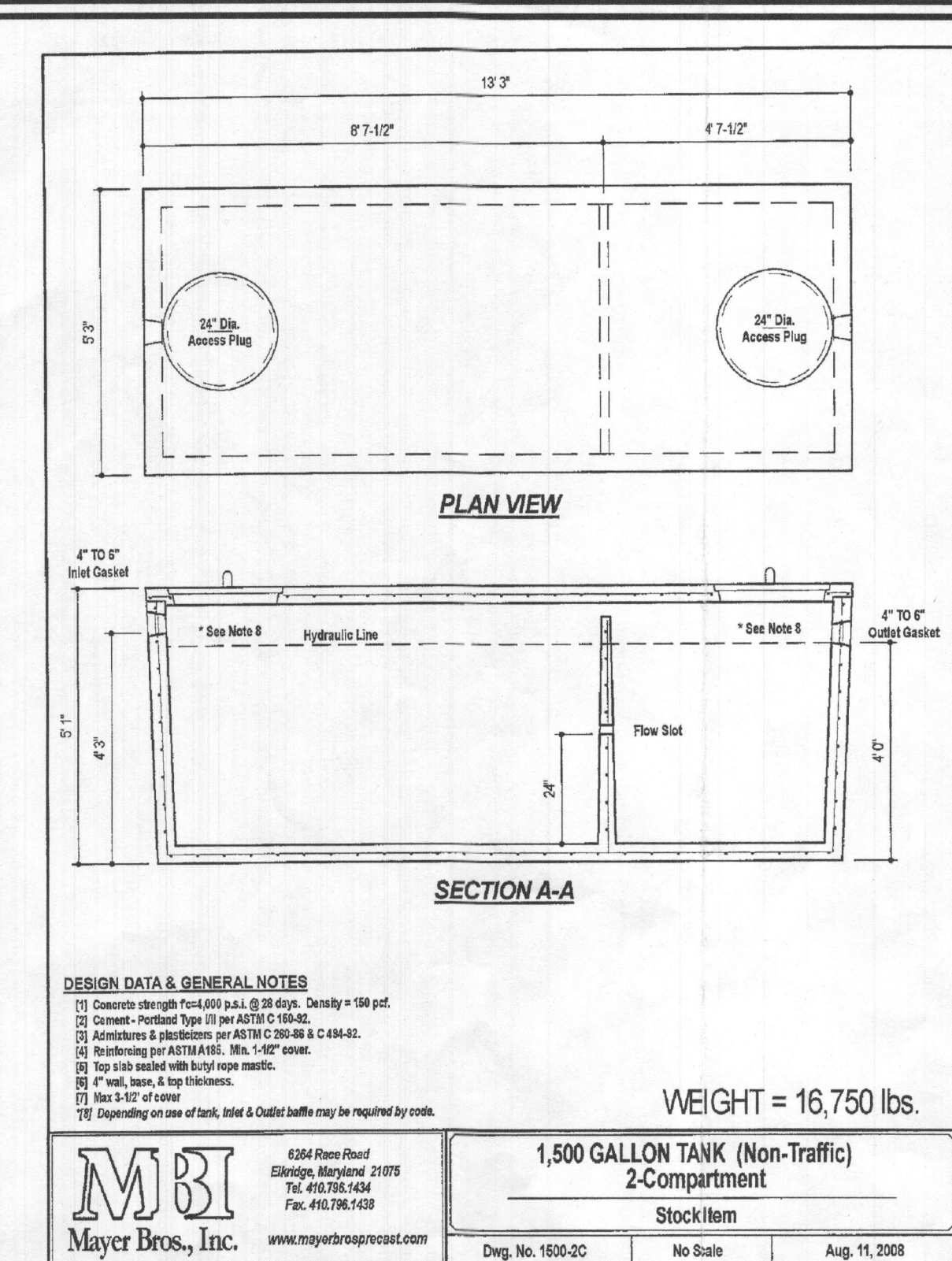


NOT TO SCALE
1" = 30'



13601 Noble way
Cut & Fill
Spill Piles on SDA

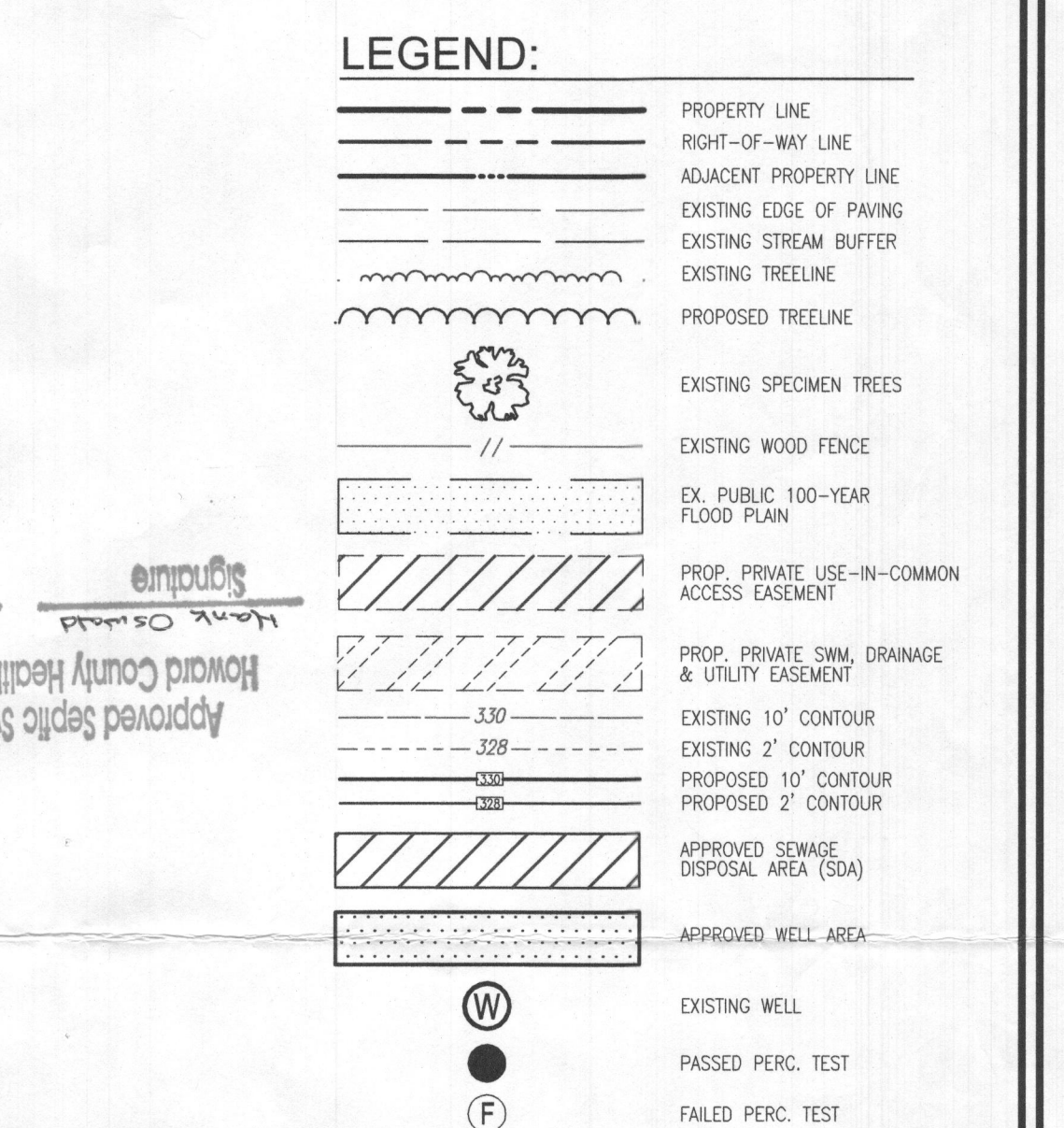
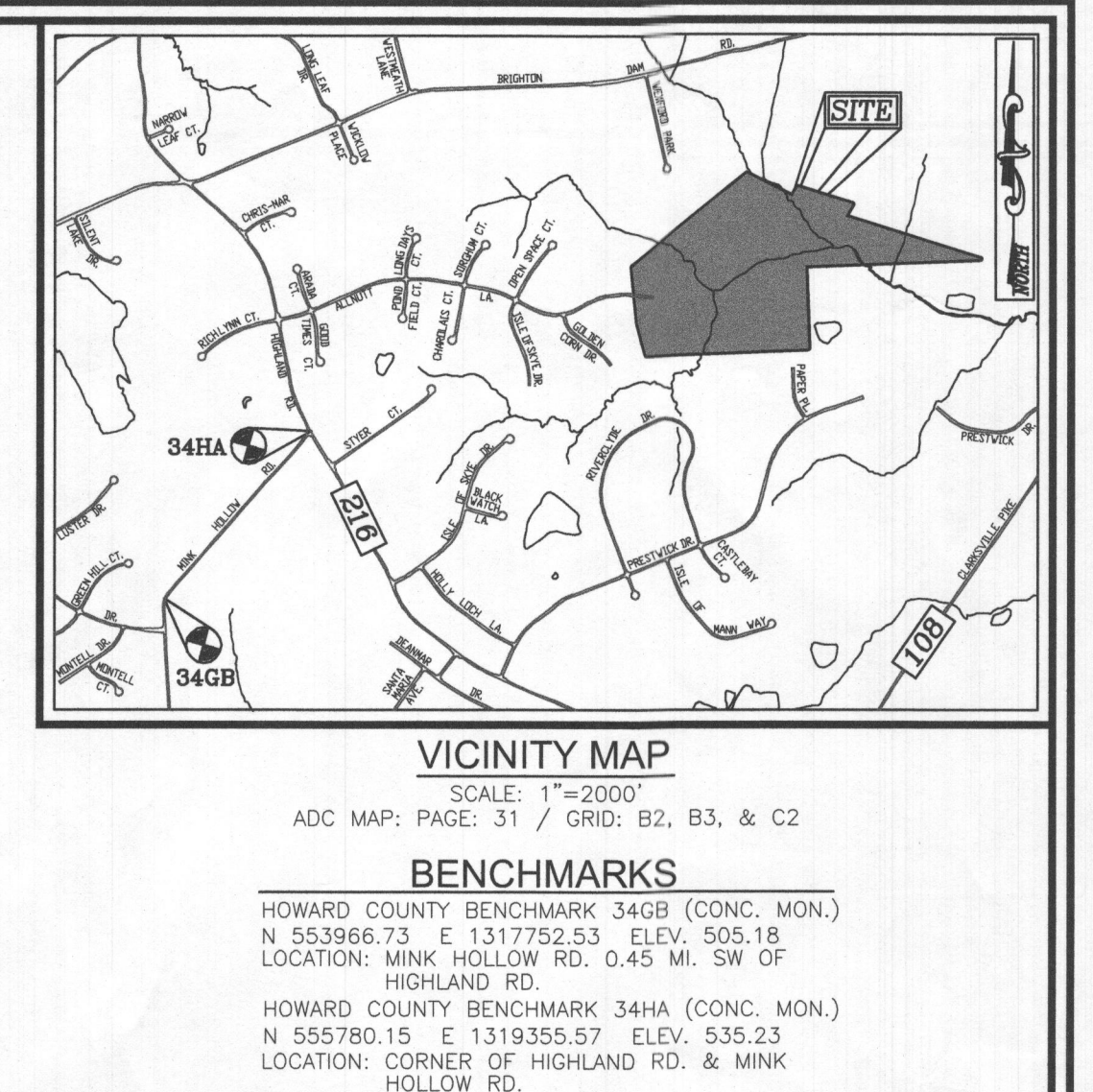




WELL LOCATION CERTIFICATION:
THE EXISTING WELL SHOWN FOR LOT 9 (TAG #HO-17-0333) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN

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 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 ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.

TRENCH	LENGTH	WIDTH	DEPTH	EXISTING TRENCH	GROUND
1	46'	43.50	430.00	430.00	
2	46'	43.76	428.26	436.26	



SYSTEM CALCULATIONS:

INITIAL SYSTEM:
5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
625 SQ. FT. / 2 (TRENCH WIDTH) x .29 (SIDEWALL REDUCTION) = 91 LINEAR FEET
92 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE INITIAL SYSTEM.
(2 TRENCHES OF 46 FEET IN LENGTH)

FIRST REPLACEMENT SYSTEM:
5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
625 SQ. FT. / 3 (TRENCH WIDTH) x .33 (SIDEWALL REDUCTION) = 69 LINEAR FEET
69 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE FIRST REPLACEMENT SYSTEM.
(1 TRENCH OF 69 FEET IN LENGTH)

SECOND REPLACEMENT SYSTEM:
5 BEDROOMS AT 750gpd / 0.8 ABSORPTION RATE = 938 SQ. FT.
938 SQ. FT. / 3 (TRENCH WIDTH) x .83 (SIDEWALL REDUCTION) = 280 LINEAR FEET
281 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE SECOND REPLACEMENT SYSTEM.
(3 TRENCHES OF 87 FEET IN LENGTH)

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

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

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

THE ESTATES AT RIVER HILL - LOT 9
13601 NOBLE WAY
HIGHLAND, MD 20777

PARCEL: 389
TAX MAP: 34 GRID: 23
5TH ELECTION DISTRICT

ZONED: RR-DEO
L 18487 / F 262
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

DESIGN BY: RHV
DRAWN BY: JMR
CHECKED BY: RHV
DATE: JUNE 2022
SCALE: AS SHOWN
W.O. NO.: 15-39

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A duly licensed PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16193, EXPIRATION DATE: 06-27-2022

ROBERT H. VOGEL, PE No. 16193

1 SHEET OF 1