

LEGEND

[Hatched pattern]	REVISED SEWAGE DISPOSAL AREA 10,450 SQ. FT.
[Dotted pattern]	PROPOSED ADDITION
[Vertical lines pattern]	ADDED SDA* 3,362 SQ. FT.
[Horizontal lines pattern]	SUBTRACTED SDA* 228 SQ. FT.
(TBA)	TO BE ABANDONED
[Dashed line]	SOIL BOUNDARY
[Circle with cross]	PASSED PERCOLATION TEST
[Circle with dot]	FAILED PERCOLATION TEST

SOIL CLASSIFICATION DESCRIPTION

MaB MANOR LOAM, 3 TO 8 PERCENT SLOPES
WELL DRAINED

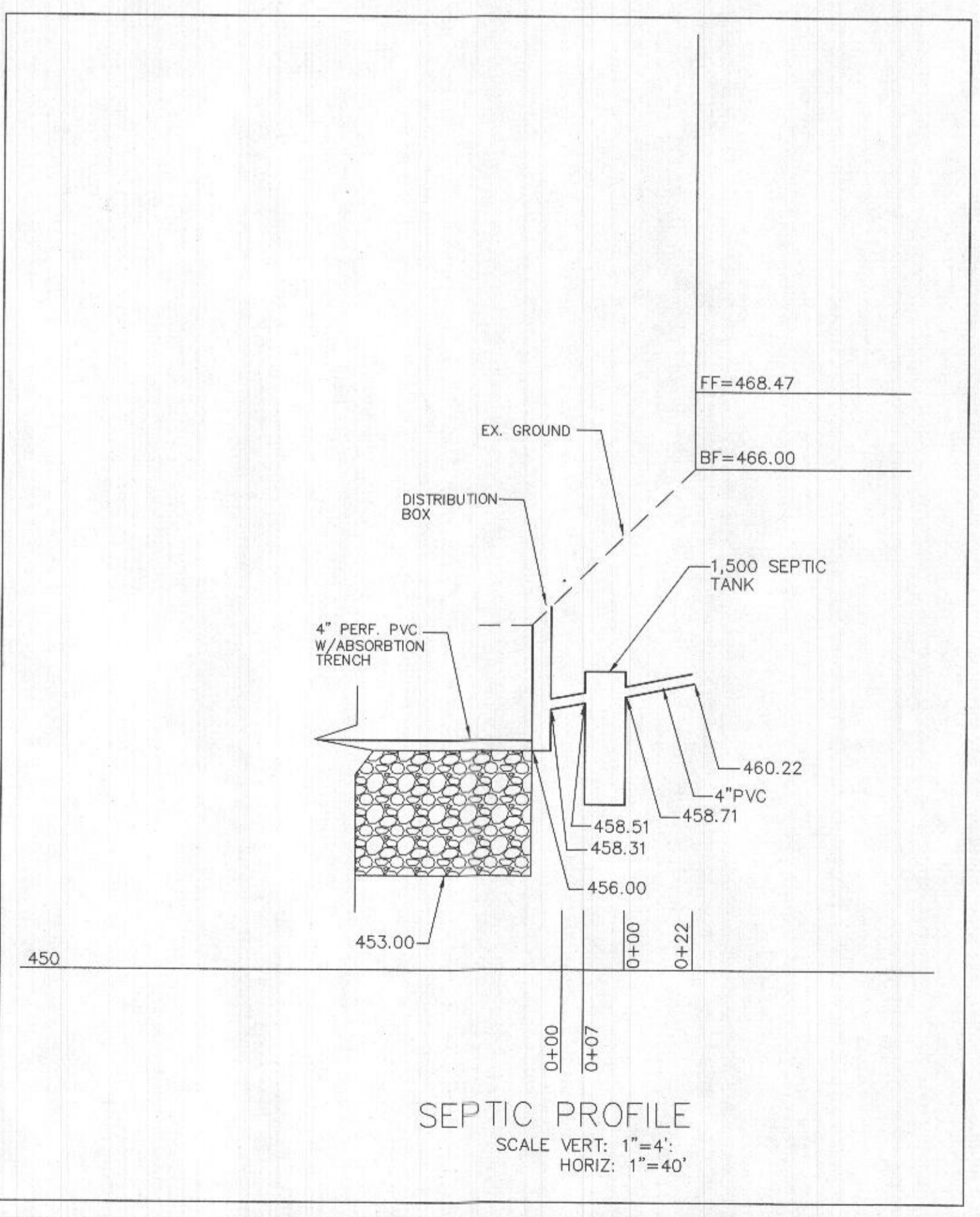
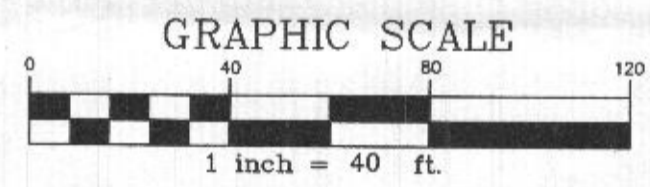
MaC MANOR LOAM, 8 TO 15 PERCENT SLOPES
WELL DRAINED

THIS AREA DESIGNATES A MINIMUM 10,000 SQUARE FOOT PRIVATE SEWAGE AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

- NOTES**
- PROPERTY INFORMATION: SITE ADDRESS: 14695 TRIADELPHIA MILL ROAD DAYTON, MARYLAND 21036
TAX MAP 27, PARCEL 124, GRID16 LIBER 19807 FOLIO 101
 - EXISTING ZONING IS RC-DEO.
 - I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED UNDER MY DIRECT SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
 - THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
 - THE TOPOGRAPHY ON THIS PLAN IS TAKEN FROM HOWARD COUNTY GIS AND IS VERIFIED BY MARKS AND ASSOCIATES, TO REPRESENT THE RELATIVE CHANGES ON THE SUBJECT PROPERTY.
 - ALL WELLS AND SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
 - 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 EXISTING SDA HAS BEEN MODIFIED TO REMOVE 228 SQ. FT. AND ADDING 3,362 SQ. FT. FOR A TOTAL OF 10,450.
 - THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
 - ELECTRICAL WORK FOR TEH INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
 - THE WELL TAG #73-3567 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.

INITIAL SEPTIC SYSTEM DESIGN
5 BEDROOM HOUSE
750 gpd
1,500 GALLON TANK
GRADE @ HOUSE = 466.00
4" PVC INVERT @ HOUSE = 460.22
HOUSE TO SEPTIC TANK LATERAL = 22 IF
GRADE @ SEPTIC TANK = 462.43
TOP OF TANK = 459.54
INV. IN SEPTIC TANK = 458.71
INV. OUT SEPTIC TANK = 458.51
TANK TO START OF FIRST ABSORPTION TRENCH = 6 IF
GRADE @ FIRST ABSORPTION TRENCH = 461.00
TOP OF GRAVEL AT FIRST ABSORPTION TRENCH = 457.00
INV. 4" LATERAL @ FIRST ABSORPTION TRENCH = 457.00
BOTTOM OF GRAVEL @ FIRST ABSORPTION TRENCH = 453.00

SEPTIC CALCULATIONS
DRAIN FIELD S.F. = 750/0.8 = 938 S.F.
TRENCH WIDTH = 3 FEET
SIDEWALL REDUCTION CREDIT = $[(3+2)/(3+1+2)(4)] = 0.417$
TRENCH LENGTH REQUIRED = $(938 \times 0.417)/3 = 131$ FEET
PROVIDED LENGTH (SYSTEM #1) - 2 TRENCHES @ 66 FEET EACH
PROVIDED LENGTH (SYSTEM #2) - 3 TRENCHES @ 45 FEET EACH
PROVIDED LENGTH (SYSTEM #3) - 3 TRENCHES @ 45 FEET EACH
SEPTIC TANK = 1,500 GAL



SEPTIC PROFILE
SCALE VERT: 1"=4'
HORIZ: 1"=40'

OWNER / BUILDER:
SINGH CHARANPREET JOHAL & DIVPREET KAUR
14695 TRIADELPHIA MILL ROAD
DAYTON, MD. 21036
(443) 844-9088

"APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS"

HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE

Professional Certification
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.: 22538
Expiration Date: 11/24/2025



I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PLANNING ENGINEERING SITE ANALYSIS PROJECT MANAGEMENT
CMS Associates LLC
 4925 Ellis Lane
 Ellicott City, Maryland 21043
 Tel. (410) 988-2436
 www.cms-engineering.net

REV. NO.	DATE	REVISIONS	POST APPROVAL

14695 TRIADELPHIA MILL ROAD
ONSITE SEWAGE DISPOSAL DESIGN PLAN
 LOT 5

PLAT NO. 5960
 TAX ID 05-395431
 TAX MAP 27
 ELECTION DISTRICT 4
 HOWARD COUNTY, MARYLAND

PROFESSIONAL ENGINEER
 GEOFFREY LIN CINERIO
 No. 22538
 08/27/2025

PLAN NO.:
 SCALE: 1"=40'
 DATE: 08/27/2025
 SHEET 1 OF 1
 FILE NO: 21-012