

**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: 10/11/24 **ONSITE SEWAGE DISPOSAL SYSTEM** 587829

APPROVAL DATE: 12/13/2023 **PERMIT: NEW CONSTRUCTION** A \_\_\_\_\_

PROPERTY ADDRESS: 2511 Daisy Road

SUBDIVISION: Weikel Property LOT: 1 TAX ID: 04-349113

CONTRACTOR: J & A Construction Services EMAIL: pjacobs@j&aconstruction.net

CONTRACTOR ADDRESS: 7991 Bennett Branch Road, Mount Airy, MD 20771 PHONE: 410-635-2484

PROPERTY OWNER: Cynthia Louise Sears EMAIL: \_\_\_\_\_

OWNER ADDRESS: 702 Old Crossing Drive, Pikesville, MD 21208 PHONE: 410-215-8156

SEPTIC TANK SIZE: 1500gal PUMP SIZE: N/A PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>196</u>	INLET DEPTH: <u>2</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>5</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3</u>
LOCATION:	<b>SYSTEM TO BE STAKED BY DESIGNER AND VERIFIED BY APPROVING AUTHORITY DURING PRE-CONSTRUCTION INSPECTION.</b>	
NOTES:		

ISSUED BY: Z. Sivas ISSUE DATE: 10/11/24 EXPIRATION DATE: 10/11/24

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR REGISTERED WITH THE STATE OF MD ON-SITE WASTEWATER PROFESSIONALS BOARD: CONFIRMED
- 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 SEPTIC 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: THE HCHD DOES NOT WARRANT ANY SYSTEM AND CANNOT GUARANTEE THE PERFORMANCE OF THIS SYSTEM AS DESIGNED. BY ACCEPTING THIS PERMIT, THE OWNER AND/OR APPLICANT ACKNOWLEDGE THAT THE SPECIFICATIONS DETAILED IN THIS DESIGN ARE ONE POSSIBLE OPTION AND THAT THE HCHD WILL REVIEW OTHER PROPOSALS. YOU HAVE THE OPTION TO SEEK THE ADVICE OF A QUALIFIED DESIGN CONSULTANT OR PROFESSIONAL ENGINEER FOR FURTHER GUIDANCE.
- NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.
- 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

\*See Separate Sheet for As-Built\*

11/12/2024 Contractor dug the line from the septic tank to 5' from the house. Has about 2 1/2 full. Levelled D-box. The end of the 2nd trench has been completed - it is stoned and geotextile fabric has been added. Front baffle has been added to the ST. OK to backfill. MS

12/11/2024 - sewer out of house connected to c/o. installer bedding under pipe on to backfill. SP

12/19/2024 - Note added to list of licensed installers. SP

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	2.5'	5'
NUMBER OF TRENCHES		2
TOTAL LENGTH		199'
ABSORPTION AREA		597' + 9' (width)
DISTRIBUTION BOX LEVEL		Yes
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		Yes

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL Yes  
 MANUFACTURER Blyden  
 CAPACITY 1500 GAL  
 SEAM LOC Top  
 TANK LID DEPTH 2.3' - 2.6'  
 BAFFLES Front/Back  
 BAFFLE FILTER -  
 MANHOLE LOC Front/Back  
 6" PORT LOC Front/Back  
 WATERTIGHT TEST -  
 SLOTTED Yes  
 DATE ON LID 10-1-24

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 \_\_\_\_\_

SEPTIC CONTRACTOR ONSITE INSTALLING SYTEM: Nathan Hendrickson  
 SEPTIC CONTRACTOR ONSITE LICENSED WITH THE STATE OF MD. YES/NO

PRE-CONSTRUCTION NOTES:

11/7/24 Met with contractor on site. The stairs at the back of the house are

in the right of the house. The OSDS plan has this reversed. Engineer will have to revise the plan. Shot trench contours. Variance for both trenches is 3" Max. Contractor to remove silt fence that was put up directly over top of the 2nd trench. Plans to install ST today. Will be installing it to the left of current proposed location.

INSTALLATION NOTES: Trench lengths are per plan. MS/SP

11/7/24 Septic tank installed. It is level and sits 2.3' - 2.6' below grade. Contractor had to leave site to get additional supplies. He will be leaving the ST hole open overnight. MS 11/8/24 Contractor dug both trenches at 99' and 100'. The trench further away from the house has been stoned and geotextile fabric has been installed. Stone or Inlet depth at 2.5'. Contractor OK to backfill. Trench closer to house has been stoned. Geotextile fabric added for the first 50' of trench. For rest of trench. He will be receiving more on Monday or Tuesday next week. OK to backfill majority of trench. Inlet at 2.5'. Contractor OK to backfill ground tank so that it does not float over weekend. Back baffle of ST installed, but not front. Contractor will dig ST connection next week. Will leave area around d-box open over the weekend. MS

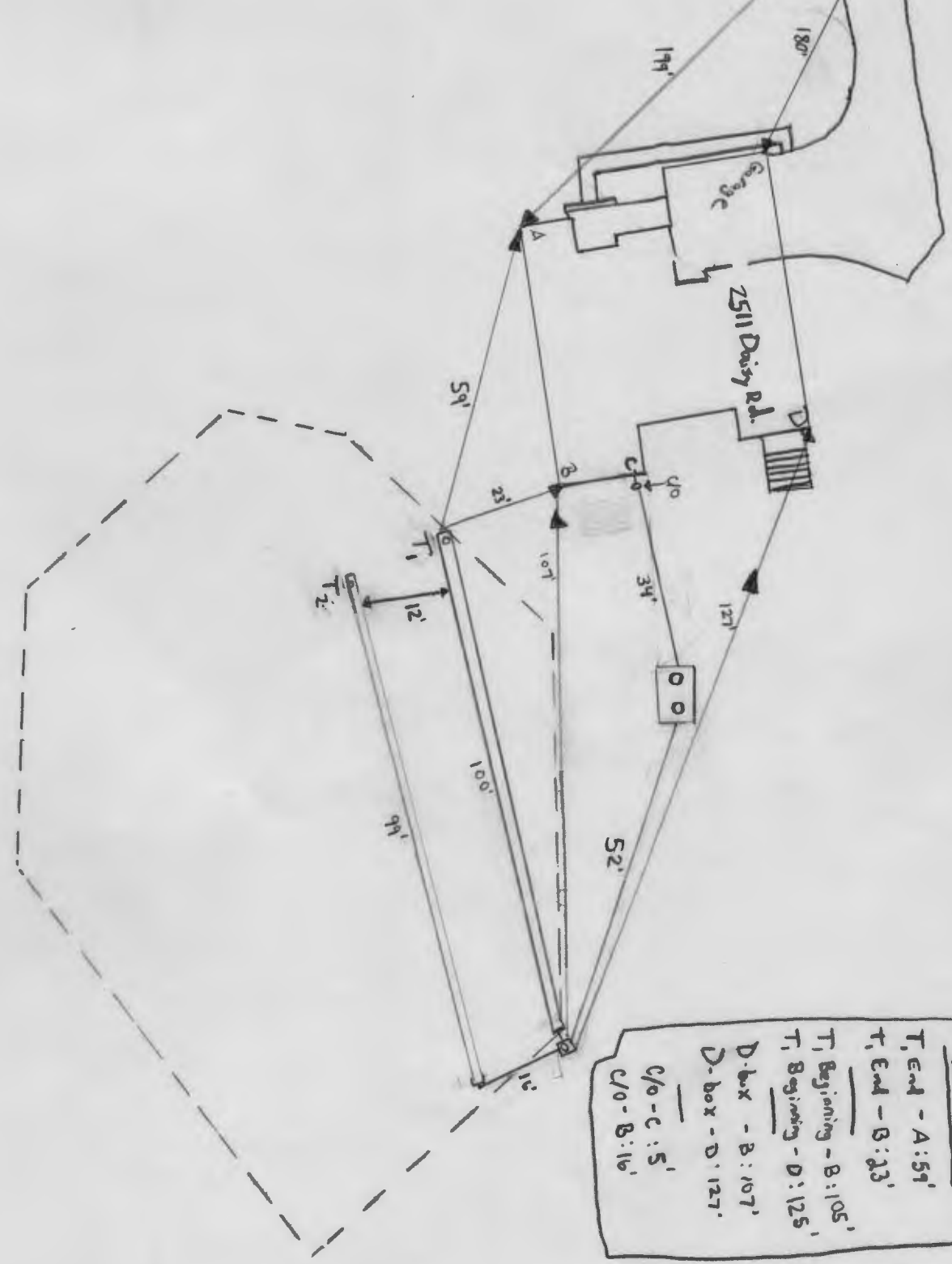
FINAL INSPECTOR A. Dames

DATE OF APPROVAL 2/13/2025

CONTROL PANEL DATA

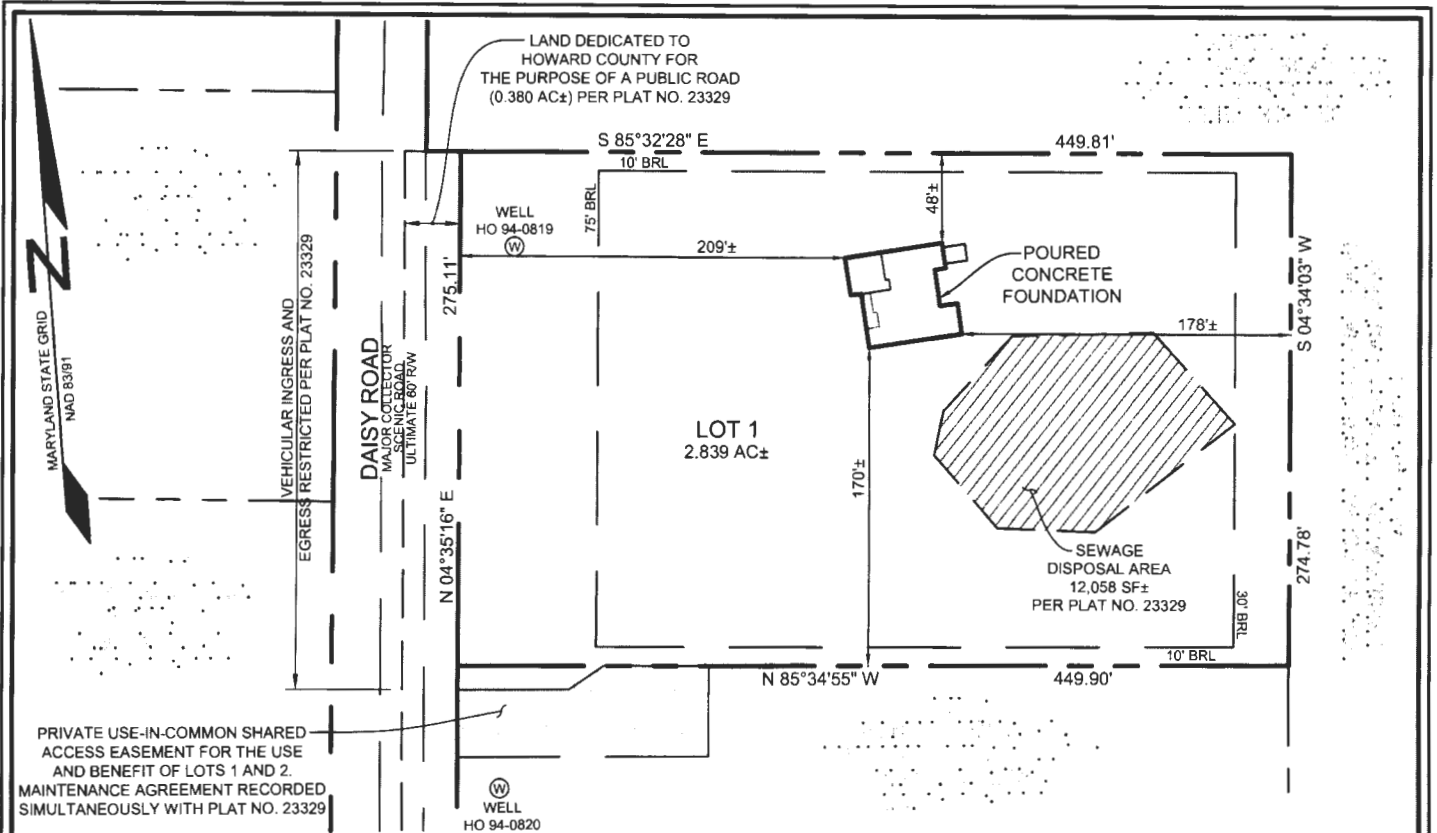
CONTROL PANEL HEIGHT (MIN 30") \_\_\_\_\_  
 INSPECTION DATE \_\_\_\_\_  
 INSPECTION: PASS/FAIL (CIRCLE ONE)

Ex. Wall  
40-94-0819



Measurements  
T<sub>1</sub> End - A: 59'  
T<sub>1</sub> End - B: 33'  
T<sub>1</sub> Beginning - B: 105'  
T<sub>1</sub> Beginning - D: 125'  
D-box - B: 107'  
D-box - D: 127'  
C/O - C: 5'  
C/O - B: 16'

NOT TO SCALE - 1" = 30'



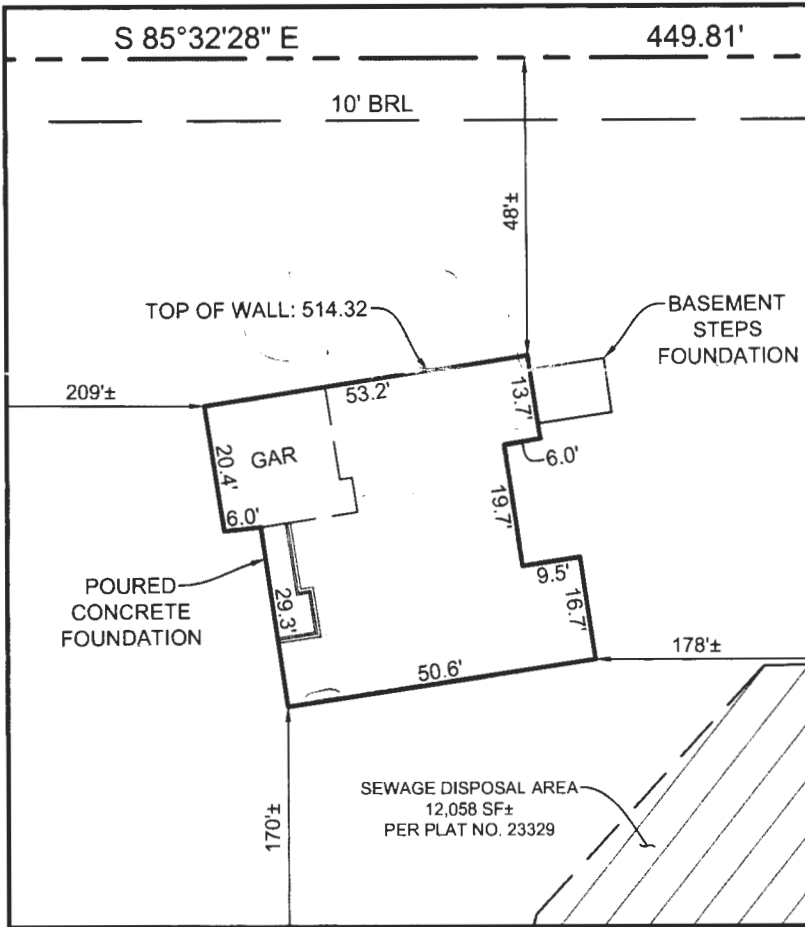
**PLAN VIEW**

SCALE: 1"=100'

*Wall Check OK.  
gjb 10/11/24*



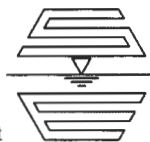
THIS IS TO CERTIFY THAT AS OF THE DATE OF THIS DRAWING, THE APPROXIMATE LOCATION(S) OF THE IMPROVEMENTS IS/ARE SHOWN IN RELATION TO THE APPARENT PROPERTY LINES FOR THE PROPERTY KNOWN AS #2511 DAISY ROAD, IN THE 4TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND, ACCORDING TO MY MEASUREMENTS AND CALCULATIONS, AND TO THE REGULATIONS GOVERNING THE MARYLAND STANDARDS OF PRACTICE FOR PROFESSIONAL LAND SURVEYORS, EFFECTIVE DATE JANUARY 5, 2015. THIS DRAWING IS NOT INTENDED TO REPLACE AN EXAMINATION OF TITLE, OR DEPICT OR NOTE ALL MATTERS AFFECTING THE TITLE PERTAINING TO THE OWNERSHIP AND USE OF THIS PROPERTY. THIS 27TH DAY OF SEPTEMBER, 2024.



**DETAILED PLAN VIEW**

SCALE: 1"=30'

16005 Frederick Road, 2nd Floor  
Woodbine, Maryland 21797  
Phone: 443.325.5076  
Fax: 410.696.2022  
Email: info@sillengineering.com  
Civil Engineering & Surveying for Land Development



**SILL  
ENGINEERING  
GROUP, LLC**

DESIGN BY: JEB  
DRAWN BY: AC  
CHECKED BY: PS  
SCALE: AS SHOWN  
DATE: OCTOBER 3, 2024  
PROJECT #: 23-044  
SHEET #: 1 of 1

**WALL CHECK  
WEIKEL PROPERTY  
2511 DAISY ROAD**

TAX MAP 14, GRID 7  
4TH ELECTION DISTRICT

PARCEL 332, LOT 1  
HOWARD COUNTY, MARYLAND

Start of sewer  
506.89

ST  
505.99

**GENERAL NOTES**

- SUBJECT PROPERTY ZONED RC-DEO PER 10-06-2013 COMPREHENSIVE ZONING PLAN.
- PROPERTY ADDRESSES: 2511 DAISY ROAD, WOODBINE, MD 21797
- REFERENCE: LIBER 21945, FOLIO 108
- PROJECT ACREAGE: 2.839 AC
- PREVIOUS HOWARD COUNTY FILE NUMBERS: PLAT NO. 23329, F-14-101, ECP-14-063
- PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
- THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET (OR 10,000 SQUARE FEET PER LOT FOR SHARED DRAIN FIELDS ASSOCIATED WITH A SHARED SEWAGE DISPOSAL FACILITY) AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). 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.
- THE BOUNDARY SHOWN HEREON IS BASED ON A BOUNDARY SURVEY PREPARED BY SEG LAND SURVEYING, LLC IN JUNE OF 2023.
- THE EXISTING TOPOGRAPHY SHOWN WITHIN THE DEVELOPED AREA IS BASED ON A FIELD RUN TOPOGRAPHIC SURVEY PREPARED BY SEG LAND SURVEYING, LLC IN JUNE OF 2023. TOPOGRAPHY OUTSIDE THE DEVELOPED AREA IS BASED ON HOWARD COUNTY GIS FLOWN IN 2018.
- THE EXISTING WELL HO-94-0819 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
- THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREA WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREA HAVE BEEN LOCATED.
- 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.

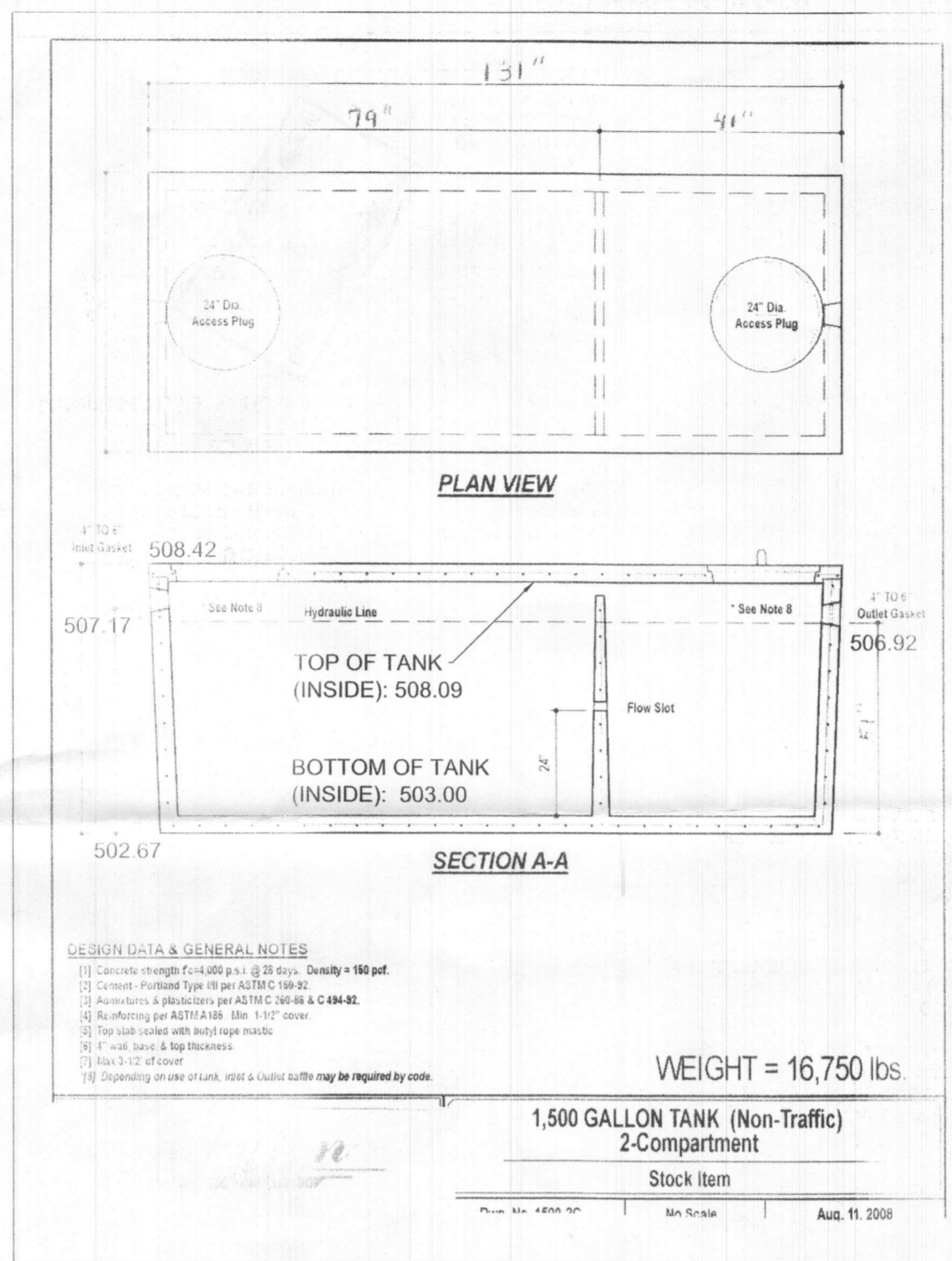
**SEPTIC SYSTEM TRENCH DESIGN SPECIFICATIONS**

- INITIAL SYSTEM:**
    - APPLICATION RATE: 0.8
    - EFFECTIVE AREA BEGINNING DEPTH: 3.0'
    - BOTTOM MAXIMUM DEPTH: 5.0'
  - DESIGN FLOW:**
    - 5 BEDROOMS AT 150 GALLONS PER DAY (GPD)
    - 5X150 GPD = 750 GPD
  - SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:**
    - DESIGN FLOW (750 GPD) / APPLICATION RATE (0.8) = 937.5 SF
  - SIDEWALL REDUCTION CREDIT:**
    - TRENCH WIDTH (W) = 3.0'
    - TRENCH EFFECTIVE DEPTH (D) = 2.0'
    - (W+2) / (W+1+2D) X 100 = 62.5%
  - LINEAR LENGTH OF TRENCH REQUIRED:**
    - DRAIN FIELD SQUARE FOOTAGE (937.5) X SIDEWALL REDUCTION CREDIT (62.5%) / TRENCH WIDTH (3.0') = 195.3'
  - TWO TRENCHES AT 98 LF EACH**
  - EXISTING GROUND:** TRENCH R1-1: 505.7
  - INVERT:** TRENCH R1-1: 505.7
  - EXISTING GROUND:** TRENCH R1-2: 506.5
  - INVERT:** TRENCH R1-2: 504.5
- SECOND REPLACEMENT SYSTEM:**
    - APPLICATION RATE: 0.8
    - EFFECTIVE AREA BEGINNING DEPTH: 3.0'
    - BOTTOM MAXIMUM DEPTH: 5.0'
  - DESIGN FLOW:**
    - 5 BEDROOMS AT 150 GALLONS PER DAY (GPD)
    - 5X150 GPD = 750 GPD
  - SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:**
    - DESIGN FLOW (750 GPD) / APPLICATION RATE (0.8) = 937.5 SF
  - SIDEWALL REDUCTION CREDIT:**
    - TRENCH WIDTH (W) = 3.0'
    - TRENCH EFFECTIVE DEPTH (D) = 2.0'
    - (W+2) / (W+1+2D) X 100 = 62.5%
  - LINEAR LENGTH OF TRENCH REQUIRED:**
    - DRAIN FIELD SQUARE FOOTAGE (937.5) X SIDEWALL REDUCTION CREDIT (62.5%) / TRENCH WIDTH (3.0') = 195.3'
  - TWO TRENCHES AT 98 LF EACH**
  - EXISTING GROUND:** TRENCH R2-1: 503.5
  - INVERT:** TRENCH R2-1: 501.5
  - EXISTING GROUND:** TRENCH R2-2: 502.4
  - INVERT:** TRENCH R2-2: 500.4

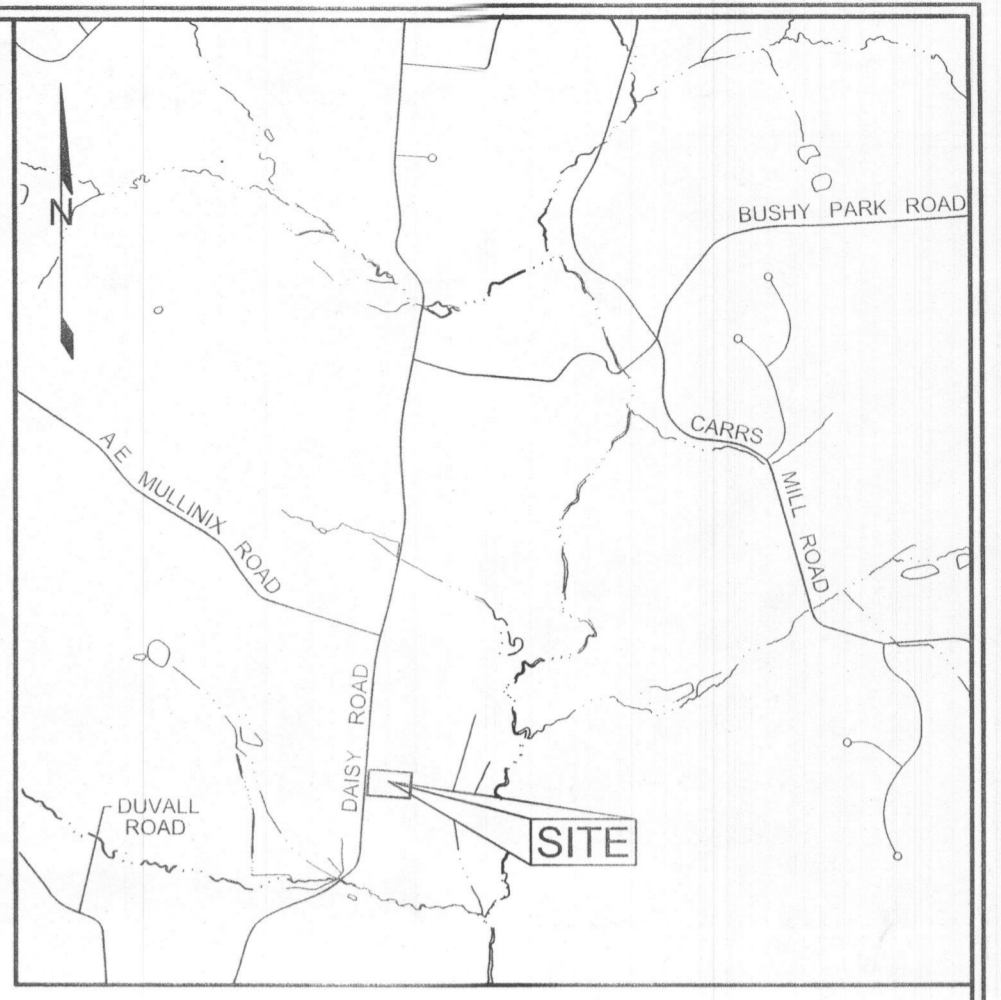
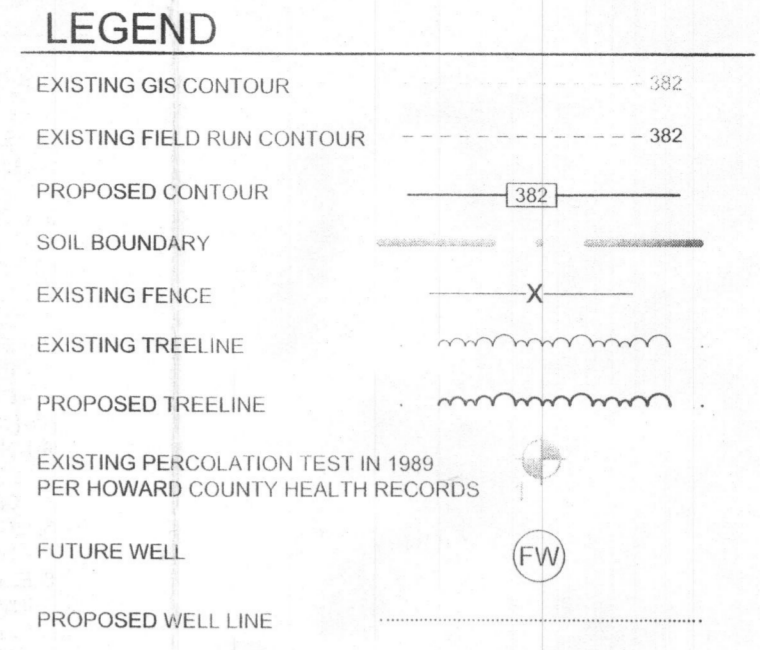
**SOILS LEGEND**

SYMBOL	NAME/DESCRIPTION	GROUP	"K" FACTOR
GgB	GLENNELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.24
GgC	GLENNELG LOAM, 8 TO 15 PERCENT SLOPES	B	0.24
GmB	GLENNVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	0.37

- NOTES:**
- SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE; NATURAL RESOURCES CONSERVATION SERVICE; WEB SOIL SURVEY
  - HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL CREDIBILITY FACTOR "K" GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.



**PROPOSED 1,500-GALLON SEPTIC TANK DETAIL**

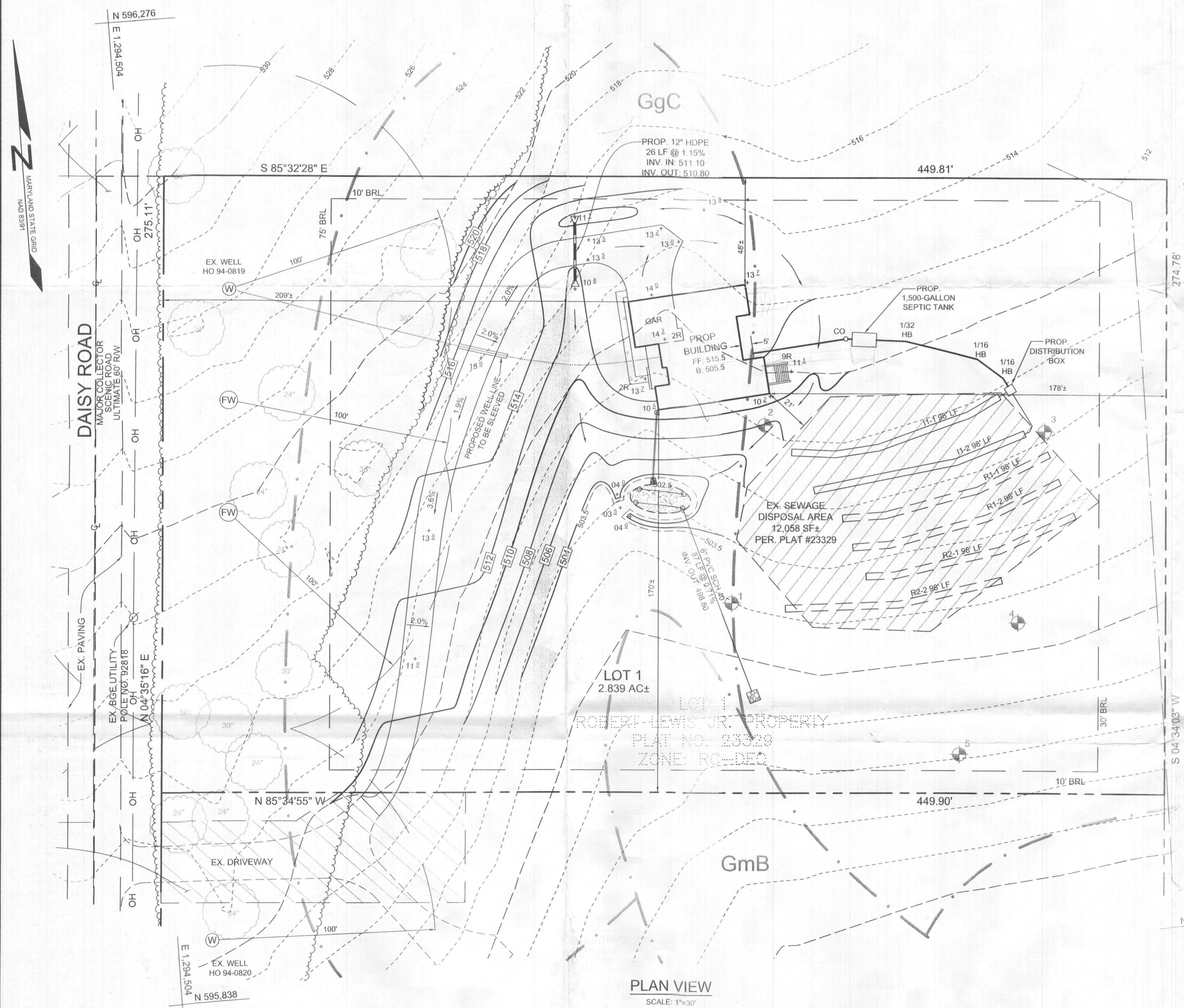


**VICINITY MAP**  
SCALE: 1"=200'

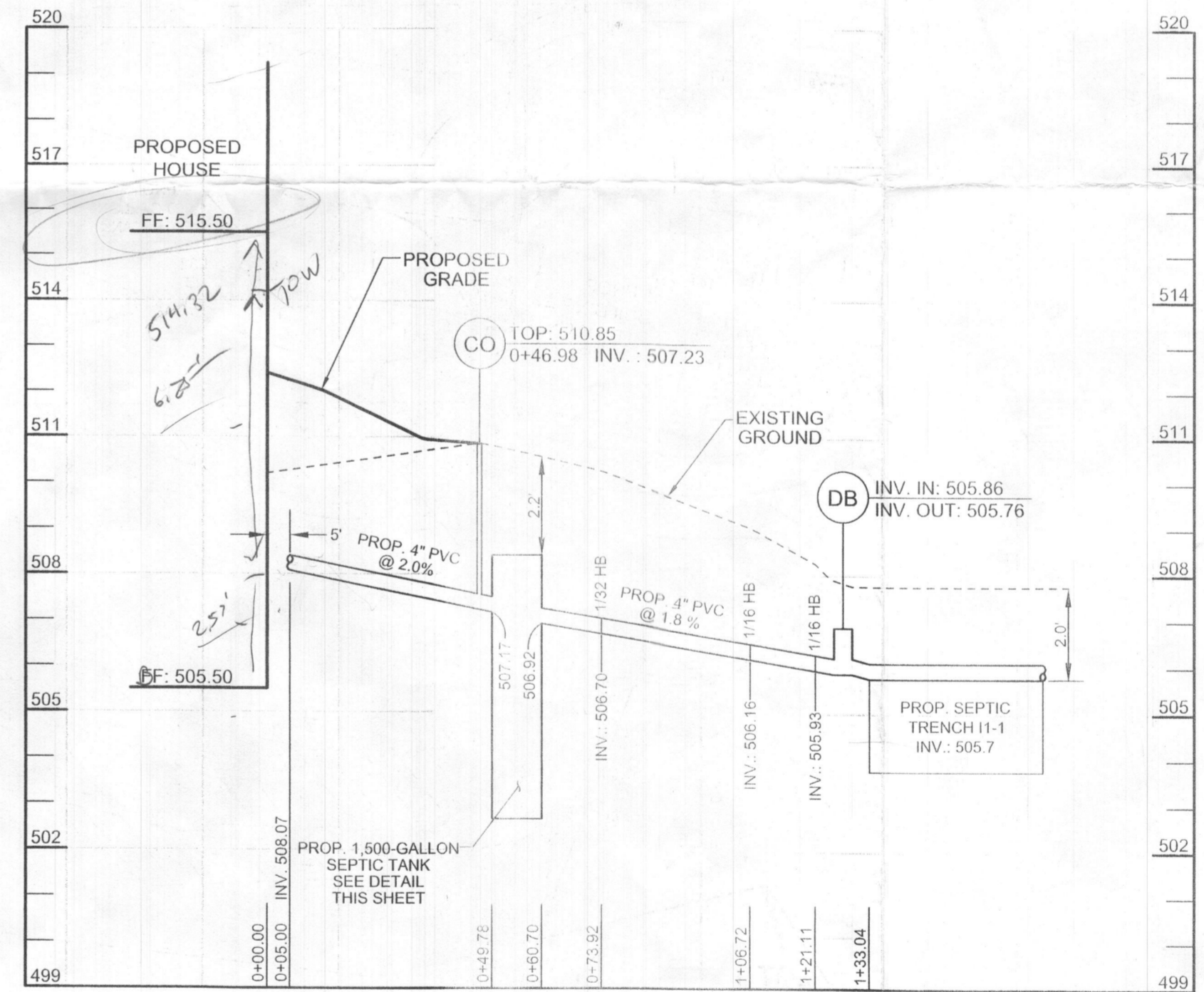
**PERCOLATION HOLE ELEVATIONS**

PERC HOLE	ELEVATION
1	501.93
2	508.13
3	506.22
4	501.01
5	496.18

NOTE: PERCOLATION ELEVATIONS AND LOCATIONS ARE APPROXIMATE AND PER HOWARD COUNTY HEALTH RECORDS.

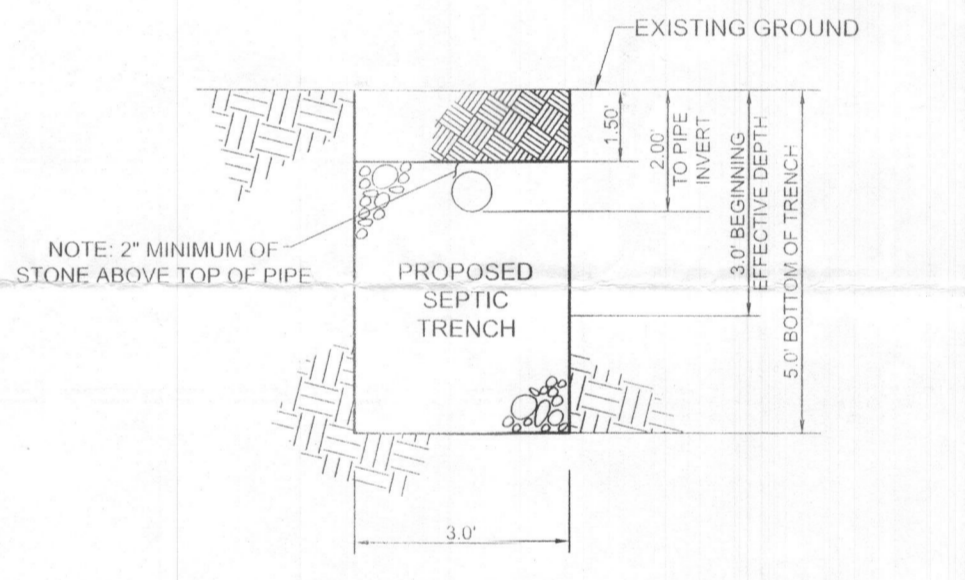


**PLAN VIEW**  
SCALE: 1"=30'

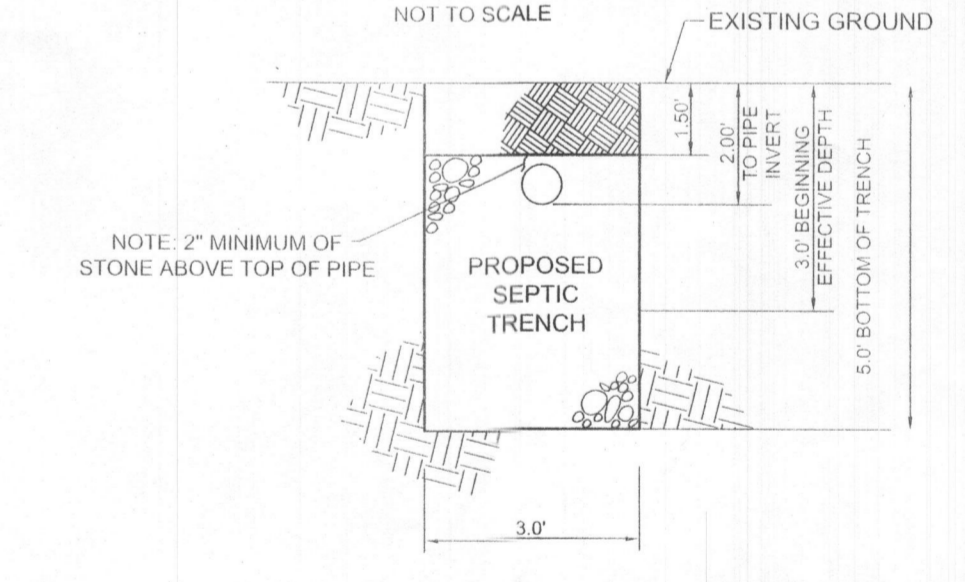


**SEPTIC SYSTEM PROFILE**

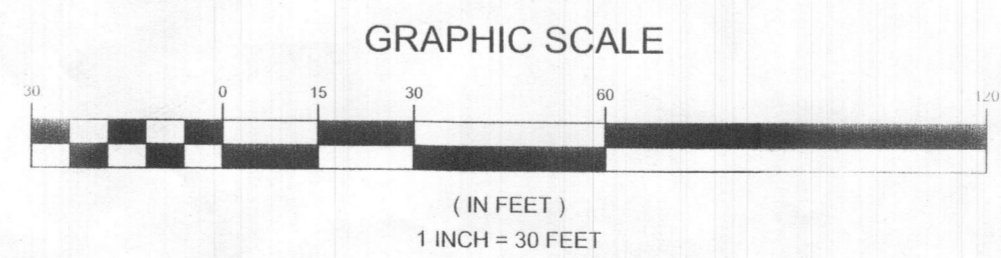
HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 3'



**SEPTIC TRENCH DETAIL I-1**  
NOT TO SCALE



**SEPTIC TRENCH DETAIL I-2**  
NOT TO SCALE



**OWNER - LOT 1**  
CYNTHIA LOUISE SEARS  
702 OLD CROSSING DRIVE,  
Pikesville, MD 21208  
(410) 215-6156

**BUILDER - LOT 1**  
CARUSO HOMES  
2120 BALDWIN AVENUE, SUITE 200,  
CROFTON, MD 21114  
(301) 261-0277

Approved Septic System Plan  
Howard County Health Department  
Signature: *[Signature]* Date: 7/16/2024

**ONSITE SEWAGE DISPOSAL PLAN,  
PROFILE, NOTES & DETAILS  
WEIKEL PROPERTY - LOT 1  
2511 DAISY ROAD**

TAX MAP 14, GRID 7  
4TH ELECTION DISTRICT

PARCEL 332, LOT 1  
HOWARD COUNTY, MARYLAND

**SILL ENGINEERING GROUP, LLC**  
16085 Frederick Road, 2nd Floor  
Woodbine, Maryland 21797  
Phone: 443.325.5076  
Fax: 410.696.2022  
Email: info@sillengrping.com  
Civil Engineering & Surveying for Land Development

DESIGN BY: PS  
DRAWN BY: TB  
CHECKED BY: PS  
SCALE: AS SHOWN  
DATE: JUNE 21, 2024  
PROJECT #: 23-044  
SHEET #: 1 of 1

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. 32025, EXPIRATION DATE JUNE 20, 2025