

**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](http://www.hchealth.org)  
 Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

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

RECEIPT DATE: 3/10/17 **ONSITE SEWAGE DISPOSAL SYSTEM** P 50572  
 APPROVAL DATE: 6/2/17 **PERMIT: CONSTRUCTION** A \_\_\_\_\_  
 PROPERTY ADDRESS: 17245 Hardy Road  
 SUBDIVISION: Lambert Green LOT: 3 TAX ID: 04-354893  
 CONTRACTOR: South Carroll Backhoe EMAIL: scbackhoe@comcast.net  
 CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157 PHONE: 410-596-3618  
 PROPERTY OWNER: Frank Sanders EMAIL: \_\_\_\_\_  
 OWNER ADDRESS: 11317 Windsor Walk Court PHONE: \_\_\_\_\_  
 SEPTIC TANK SIZE (GALLONS): 1000 TANK MANUFACTURER: MBI  
 PUMP MODEL: \_\_\_\_\_ PUMP SIZE \_\_\_\_\_ PUMP TANK CAPACITY: \_\_\_\_\_

DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: 3 APPLICATION RATE: 0.8

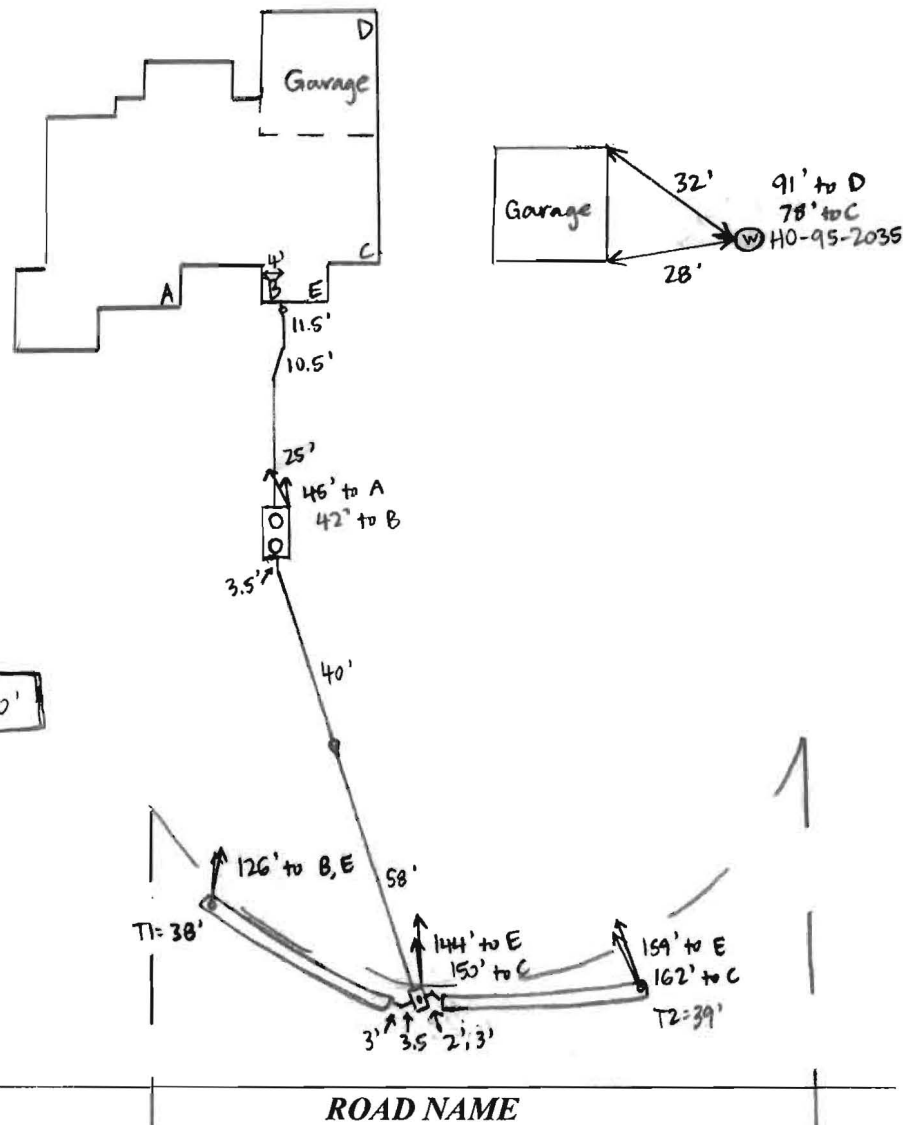
TRENCHES:	LINEAR FEET REQUIRED: <u>78</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4</u>
LOCATION:	<b>PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.</b>	
NOTES:	Use 2 39' trenches	

ISSUED BY: Hank Oswald ISSUE DATE: 3/10/17 EXPIRATION DATE: 3/10/18

- 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.**

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES	2	
TOTAL LENGTH	77'	
ABSORPTION AREA	231' + SIDEWALK	
DISTRIBUTION BOX LEVEL	YES	
DISTRIBUTION BOX BAFFLE	YES	
DISTRIBUTION BOX PORT	YES	

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	YES
MANUFACTURER	MAYER BROS.
CAPACITY	1000 GAL
SEAM LOC	TOP
TANK LID DEPTH	1'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	

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

PRE-CONSTRUCTION:

4/17/17 met S. Carroll on site for layout. All tank and SDA stakes present. Tank will have 1' cover to make fall to D-box in middle of top SDA edge. Shot contour and laid out 2 x 39' trenches. (SC)

INSTALLATION:

4/17/17 Tank set. S. Carroll working on sewer line. Finished laying pipe from house to tank - need house connection. (SC) 4/18/17 S. Carroll adding stone to T2. T1 finished + left open. 3.5' to stone, 3' wide. Used laser to check depths. Levelled speed levelers in D-box by measuring height to bottom of opening. 4" inlet baffle installed - need 6" inlet baffle. (SC) 4/18/17 6" inlet baffle installed. Need house connection. (SC) 6/2/17 House connection complete. (SC)

FINAL INSPECTOR

Sarah Collins

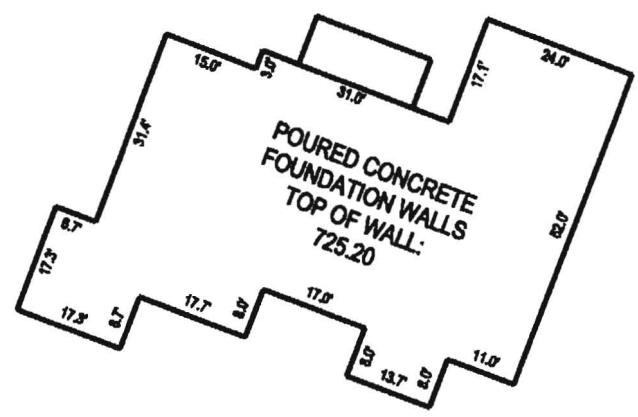
DATE OF APPROVAL

6/2/17



**HARDY ROAD**

S 68°35'44" E 25.09'



DETAIL:  
SCALE: 1" = 30'

N/F  
FRANKLIN H. SANDERS  
LAURIE HAMILTON  
LIBER MDR 13034 F. 124

*3/10/17 -  
wall check  
okay. H.O.*

LOT 3  
"LAMBERT GREEN"  
PLAT #10523

AREA BY SURVEY 3.343 Ac.±

**WALL CHECK**  
**17245 HARDY ROAD**  
**LOT 3**  
**"LAMBERT GREEN"**  
PLAT NO. 10523

4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**Professional Surveys**  
194 E. Main Street  
2nd Floor  
Westminster, MD 21157  
Phone 410-751-8795  
Fax 410-751-8796

DRAWING NAME: WALL CHECK		
SCALE: 1" = 100'	DATE: 1/13/2017	DRAWN BY: MAS
JOB: 2016-142	CHECK BY: KAH	SHEET: 1/1



*01/13/17*

The licensee either personally prepared this Boundary Survey and Wall Check or was in responsible charge over its preparation and the surveying work reflected in it, all in compliance with requirements set forth in COMAR Regulation 09.13.06.12. I am duly licensed Professional Land Surveyor under the Laws of the State of Maryland, License No. 21189, Expiration Date: 12/31/2017.

The original document contains a purple seal and blue signature. If the seal or signature is not so colored, the drawing is an unauthorized copy and may contain unauthorized alterations. To report an illegal copy, please call: 410-751-8795.

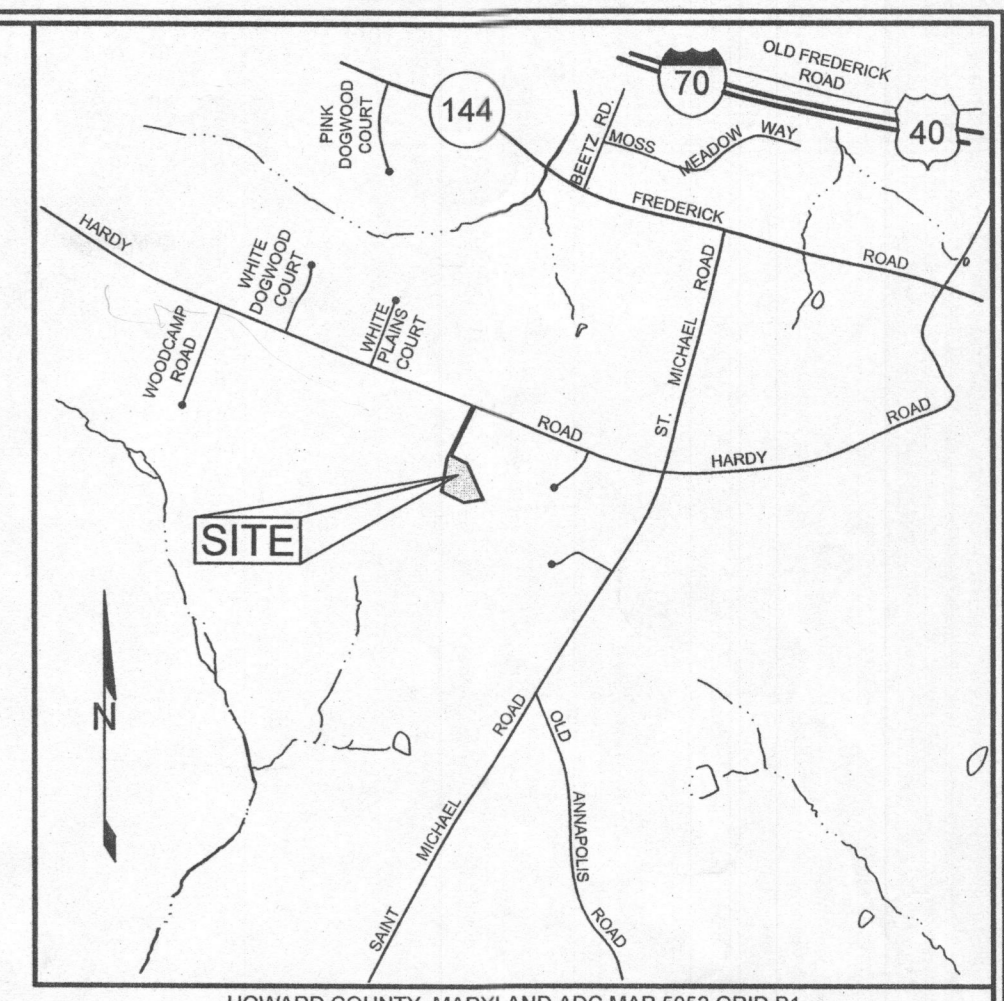
RBCF DENOTES STEEL BAR AND CAP FOUND

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	0.28
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	C	0.28
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	0.28

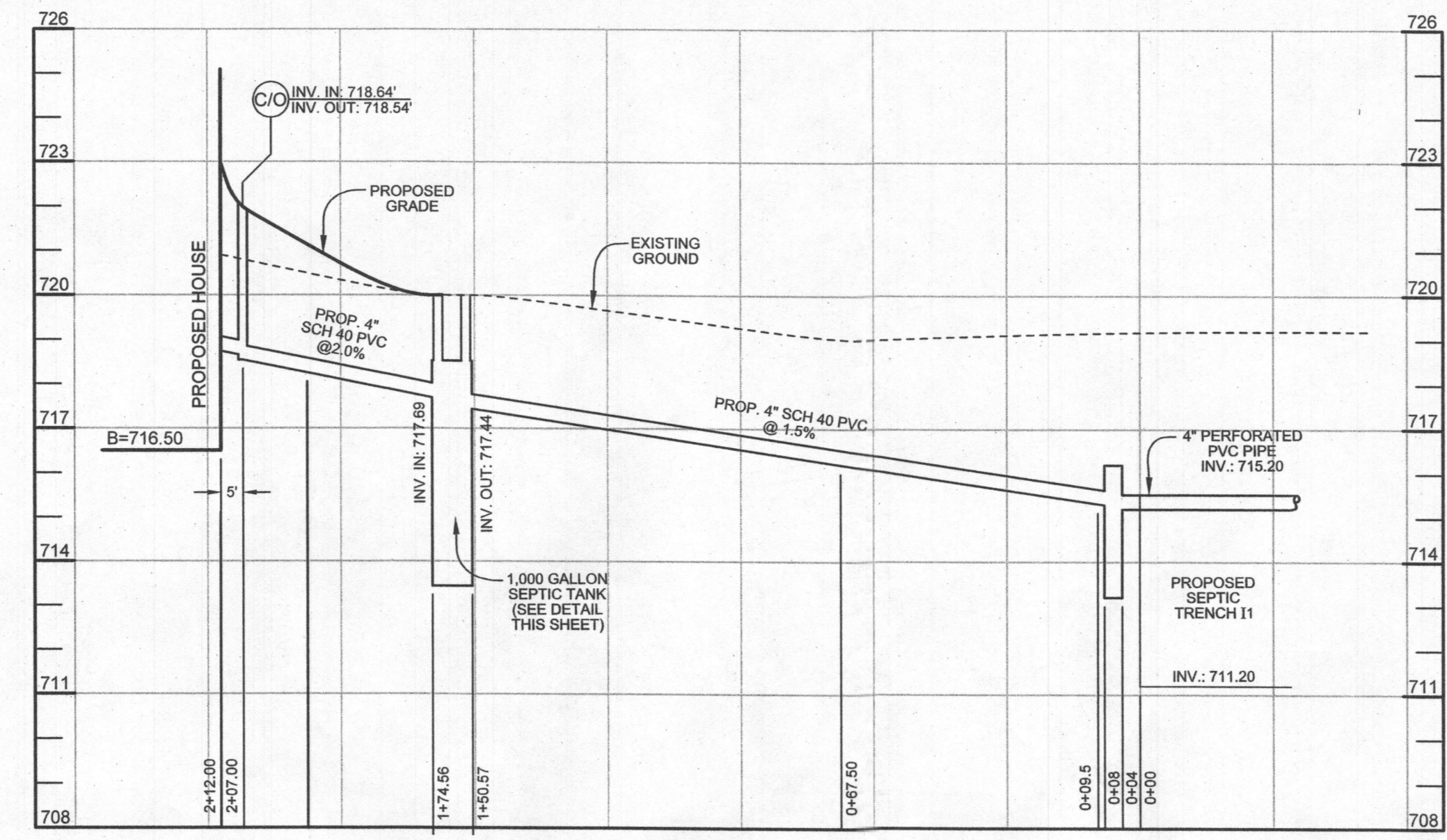
NOTES:  
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY.  
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

**LEGEND**

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREELINE
- PROPOSED TREELINE
- SOIL BOUNDARY



HOWARD COUNTY, MARYLAND ADC MAP 5052 GRID B1  
**VICINITY MAP**  
 SCALE: 1"=2000'



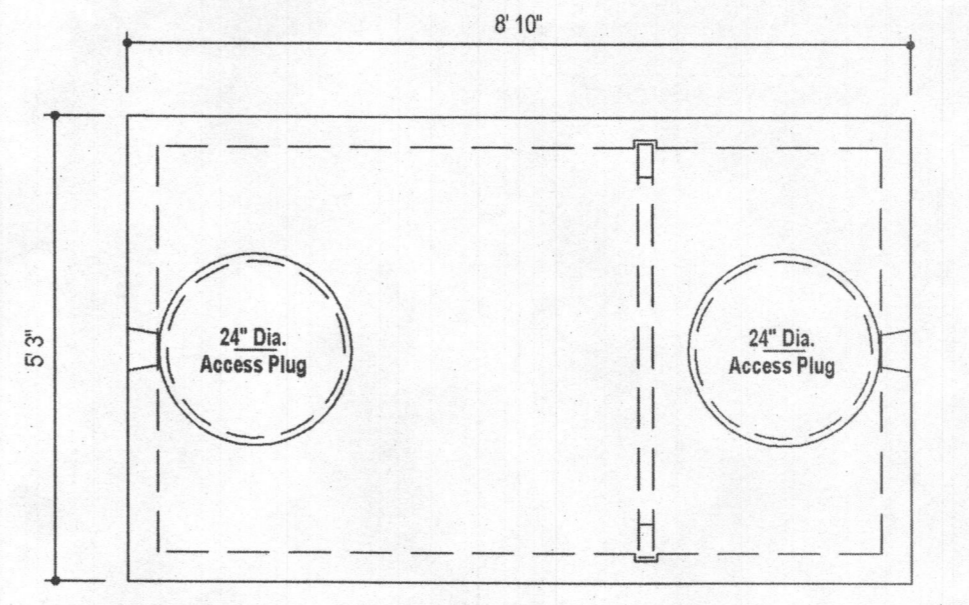
**SEPTIC SYSTEM PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=3'

**GENERAL NOTES**

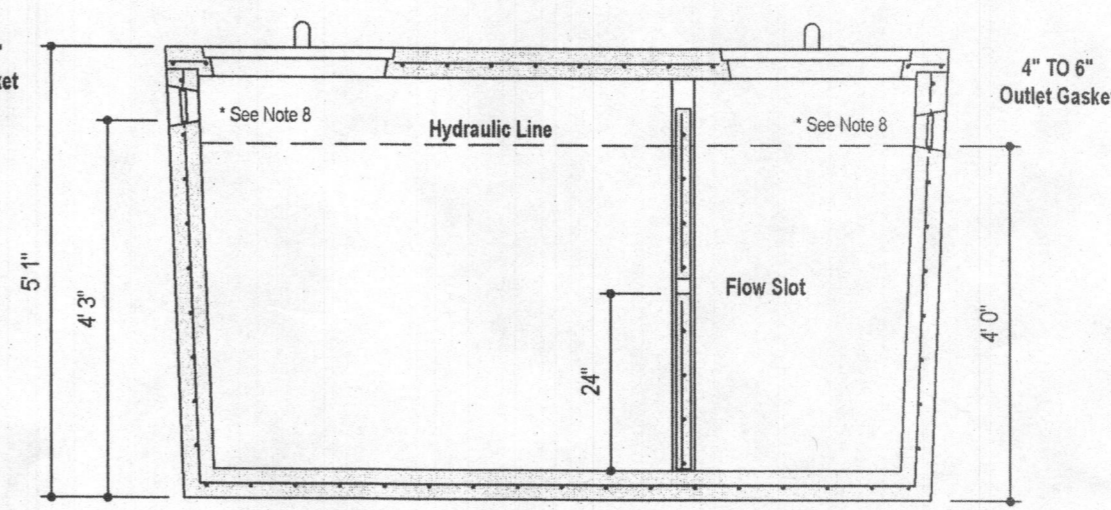
1. SUBJECT PROPERTY ZONED RC-DEO PER 1006/13 COMPREHENSIVE ZONING PLAN.
2. TOTAL AREA OF PROPERTY = 3.343 AC.±
3. PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
4. CZZZ THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT. OF AT LEAST 10,000 SF AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF 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 EASEMENTS 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 EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
5. THE BOUNDARY SHOWN HEREON IS BASED ON HOWARD COUNTY A FIELD RUN BOUNDARY SURVEY PREPARED BY PROFESSIONAL SURVEYS LLC IN JUNE 2016.
6. THE TOPOGRAPHY SHOWN HEREON WAS FIELD RUN BY PROFESSIONAL SURVEYS, LLC, IN JUNE 2016.
7. PROPERTY ADDRESS: 17245 HARDY ROAD
8. REFERENCES: LAMBERT GREEN, PLAT #10523
9. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
10. THIS PROJECT IS EXEMPT FROM THE FOREST CONSERVATION ACT SINCE IT IS A SINGLE LOT CLEARING LESS THAN 20,000SF OF FOREST.
11. A WETLAND AND STREAM STUDY WAS PERFORMED BY ECO-SCIENCE PROFESSIONALS IN JULY 2016. NO WETLANDS OR STREAMS WERE FOUND ON THE PROPERTY.
12. LIMIT OF DISTURBANCE: 29,902 SF OR 0.8665 AC.±

**SEPTIC SYSTEM TRENCH DESIGN SPECIFICATIONS**

- INITIAL SYSTEM
- APPLICATION RATE: 0.8
- EFFECTIVE AREA BEGINNING DEPTH: 4'
- BOTTOM MAXIMUM DEPTH: 8'
- 1. DESIGN FLOW:
  - 3 BEDROOMS AT 150 GPD
  - 3X150 GPD = 450 GPD
- 2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:
  - DESIGN FLOW (450 GPD) / APPLICATION RATE (0.8) = 562.5 SF
- 3. SIDEWALL REDUCTION CREDIT:
  - TRENCH WIDTH (W) = 3'
  - TRENCH EFFECTIVE DEPTH (D) = 4'
  - (W+2) / (W+1+2D) X 100 = 0.417%
- 4. LINEAR LENGTH OF TRENCH REQUIRED:
  - DRAIN FIELD SQUARE FOOTAGE (562.5) X SIDEWALL REDUCTION CREDIT (0.417%) / TRENCH WIDTH (3') = 78.125' USE 78'
- 5. LINEAR LENGTH OF TRENCH PROVIDED = 78'
- TWO TRENCHES @ 39 LF
- 6. EXISTING GRADE: TRENCH I1: 719.20'  
 TRENCH I2: 719.20'  
 INVERT: TRENCH I1: 715.20'  
 TRENCH I2: 715.20'



**PLAN VIEW**



**SECTION A-A**

- DESIGN DATA & GENERAL NOTES**
- [1] Concrete strength f<sub>c</sub>=4,000 p.s.i. @ 28 days. Density = 150 pcf.
  - [2] Cement - Portland Type III per ASTM C 150-92.
  - [3] Admixtures & plasticizers per ASTM C 260-95 & C 494-92.
  - [4] Reinforcing per ASTM A 618. Min. 1/4" cover.
  - [5] Top slab sealed with butyl rope mastic.
  - [6] 4" top, base, & wall thickness.
  - [7] Min 2" of cover.
  - [8] Depending on use of tank, Inlet & Outlet baffle may be required by code.

WEIGHT = 11,250 lbs.



**1,000 GALLON SEPTIC TANK  
 2-Compartment**  
 Stock Item  
 Dwg. No. 1000-2C No Scale Aug 11, 2008

Approved Septic System Plan  
 Howard County Health Department  
 Hank Oswald  
 Signature Date

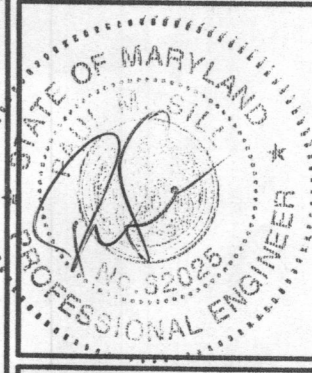
**OWNER/DEVELOPER**  
 FRANK SANDERS  
 11317 WINDSOR WALK COURT  
 LAUREL, MD 20723

**ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN**

**SANDERS PROPERTY**

LOT 3 LAMBERT GREEN

TAX MAP 7 GRID 8 4TH ELECTION DISTRICT PARCEL 522 HOWARD COUNTY, MARYLAND



**SILL ENGINEERING GROUP, LLC**  
 11130 Dovedale Court, Suite 200  
 Marriottsville, Maryland 21104  
 Phone: 443.325.5076  
 Fax: 410.696.2022  
 Email: info@sillengineering.com  
 Civil Engineering for Land Development

DESIGN BY: PS  
 DRAWN BY: AEA  
 CHECKED BY: PS  
 SCALE: AS SHOWN  
 DATE: DECEMBER 2, 2016  
 PROJECT #: 16-036  
 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. 20205, EXPIRATION DATE: JUNE 20, 2017.