

**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: 6/29/17      **ONSITE SEWAGE DISPOSAL SYSTEM**      P 561443

APPROVAL DATE: 7/18/17 (SEC)      **PERMIT: CONSTRUCTION**      A \_\_\_\_\_

PROPERTY ADDRESS: 12717 Milo Court

SUBDIVISION: Terrapin Creek      LOT: 5      TAX ID: 03-596028

CONTRACTOR: WTC Contractors      EMAIL: \_\_\_\_\_

CONTRACTOR ADDRESS: 3033 Salem Bottom Road, Westminster, MD 21157      PHONE: 410-458-7024

PROPERTY OWNER: LDG Inc.      EMAIL: \_\_\_\_\_

OWNER ADDRESS: 8601 Georgia Avenue, Silver Spring, MD 20110      PHONE: 301-585-7000

SEPTIC TANK SIZE (GALLONS): 2000      TANK MANUFACTURER: Babylon

PUMP MODEL: \_\_\_\_\_      PUMP SIZE \_\_\_\_\_      PUMP TANK CAPACITY: \_\_\_\_\_

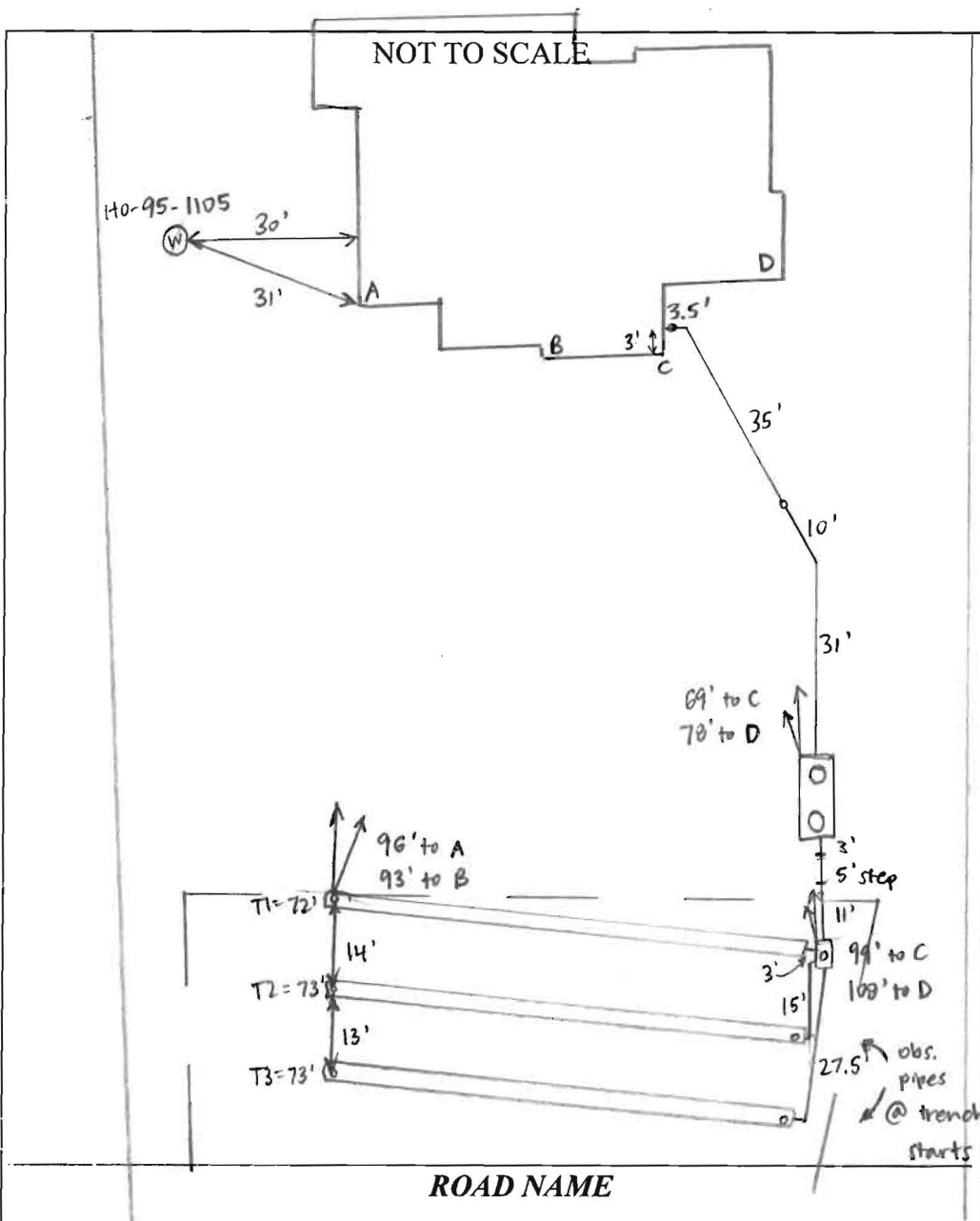
DISTRIBUTION SYSTEM:     GRAVITY     PRESSURE DOSED    BEDROOMS: 6    APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>188 210'</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>11</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4</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: Robert Bricker      ISSUE DATE: 6/29/17      EXPIRATION DATE: 6/29/18

- 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 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.**



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES		3
TOTAL LENGTH		218'
ABSORPTION AREA		654' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	(TOP)
TANK LID DEPTH	0.5-1'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	5-30-17

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:**

7/17/17 Met WTC on site for layout. SDA corner + tank stake present. Shot contour + laid out 3x70' trenches.

**INSTALLATION:**

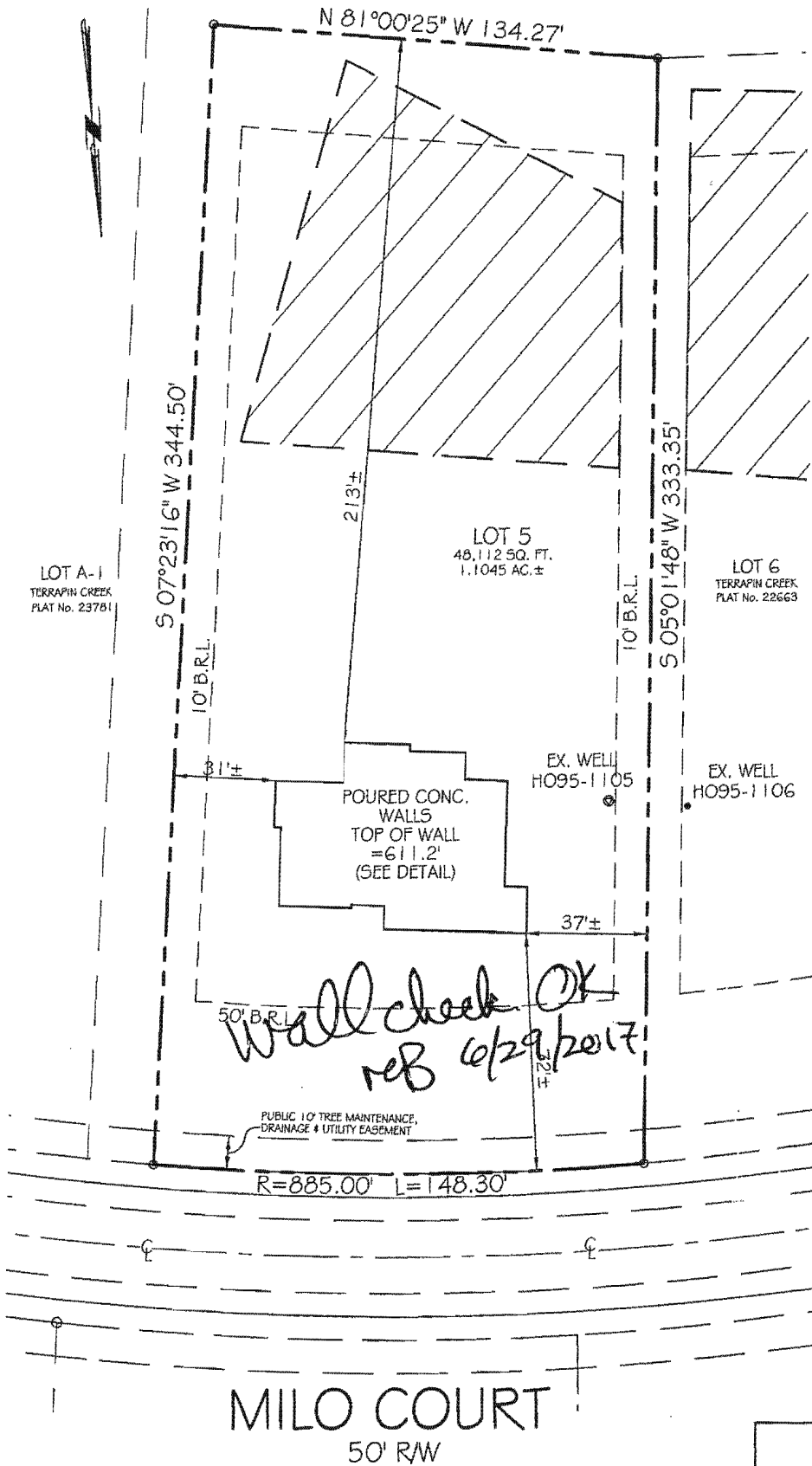
7/17/17 House connection made. Pipe run from house to tank. Tank + D-box set. (SC) 7/18/17 T1 + T2 finished and left open at ends for inspection. 3' wide, 3.5' to stone. WTC digging T3 during site visit. - 3' wide, 8' bottom. Spoil piles show rock @ T1+T2 start, flaggy material for first ~15'. Levelled speed levelers in D-box. (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 7/18/17

NON-BUILDABLE PRESERVATION  
PARCEL 'B-1'  
TERRAPIN CREEK  
PLAT No. 23779-23782

NOTES:

- 1) FOUNDATION AND FOOTINGS ARE IN PLACE AS SHOWN HEREON.
- 2) BUILDING TIES ARE ±0.5' UNLESS OTHERWISE NOTED.
- 3) TOP OF WALL = 611.2'



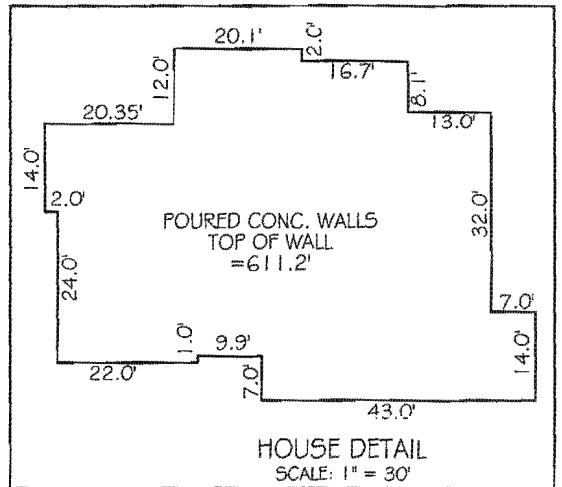
WALL CHECK DRAWING  
LOT 5  
TERRAPIN CREEK

PLAT No. 22663  
12717 MILO COURT  
THIRD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE: 1" = 50' APRIL, 2017

PROFESSIONAL CERTIFICATION:

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A FULLY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21097, EXPIRATION DATE JULY 22, 2017 IN ACCORDANCE WITH COMAR 09.13.06.12.

*Thomas L. Frazier, Jr.*  
For VanMar Associates, Inc.  
Thomas L. Frazier, Jr., Surveyor  
Date: 4/12/17

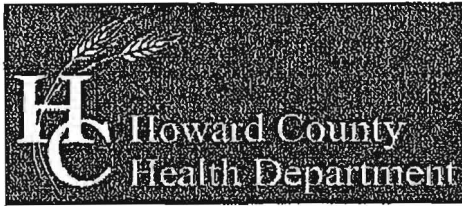


I CERTIFY THIS PLAT TO BE CORRECT; THE RESULT OF AN ACTUAL FIELD SURVEY, BASED ON DATA FOUND AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND, AS REFERENCED HEREON.



**VANMAR ASSOCIATES, INC.**  
Engineers Surveyors Planners  
310 South Main Street Mount Airy, Maryland 21771  
(301) 829-2890 (301) 831-5015 (410) 549-2751  
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REFERENCE	JOB NO.
PLAT NO. 22663	B4-5428



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Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: \_\_\_\_\_

Subdivision: TERRAPIN CREEK (F-07-086) Lot: 5

Initial system: Application rate: 0.6 Effective area beginning depth: 4 Bottom maximum depth: 8  
 1<sup>st</sup> Replacement: Application rate: 0.8 Effective area beginning depth: 5 Bottom maximum depth: 8  
 2<sup>nd</sup> Replacement: Application rate: 0.8 Effective area beginning depth: 4 Bottom maximum depth: 8

Design Flow = 150 gallons per day per bedroom

Design flow + application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage + trench width

Sidewall reduction credit formula:

$$\frac{W + 2}{W + 1 + 2D} \times 100 = \text{Percent of length of standard trench where } W = \text{trench width and } D = \text{depth between effective area beginning depth and trench bottom.}$$

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Minimum trench spacing: 6' for 2' wide trenches, 9' for 3' wide trenches. Additional spacing may be needed for deep trenches using formula: 2D + W
- Maximum trench length is 100'
- Maximum pipe depth is 4'

Additional requirements:

# LETTER OF TRANSMITTAL

AGENCY  CLIENT  FILE  BILLING  CORRESPONDANCE  OTHER

## VanMar Associates, Inc.

Engineers ~ Surveyors ~ Planners  
310 South Main Street, P.O.Box 328, Mt. Airy, MD 21771  
301-829-2890 301-831-5015 301-695-0600  
410-549-2751 (FAX) 301-831-5603

**TO:** : Howard County Health Department  
Bureau of Environmental Health  
8930 Stanford Blvd  
Columbia, Maryland 21045

Attn: Hank Oswald

**DATE:** March 7, 2017

**PROJECT:** Terrapin Creek, Lot 5

**VMA#** B4-5428

### ENCLOSED:

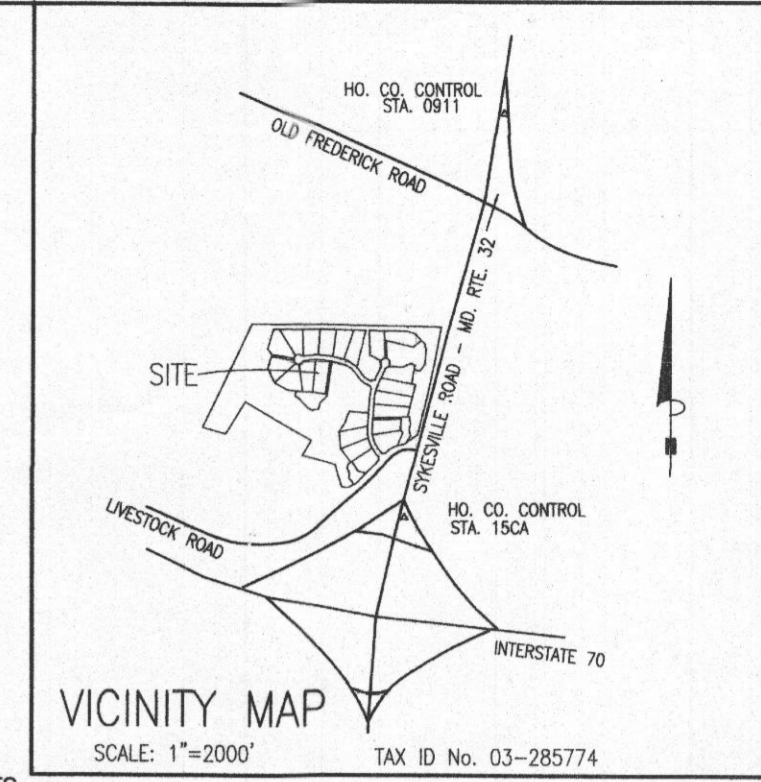
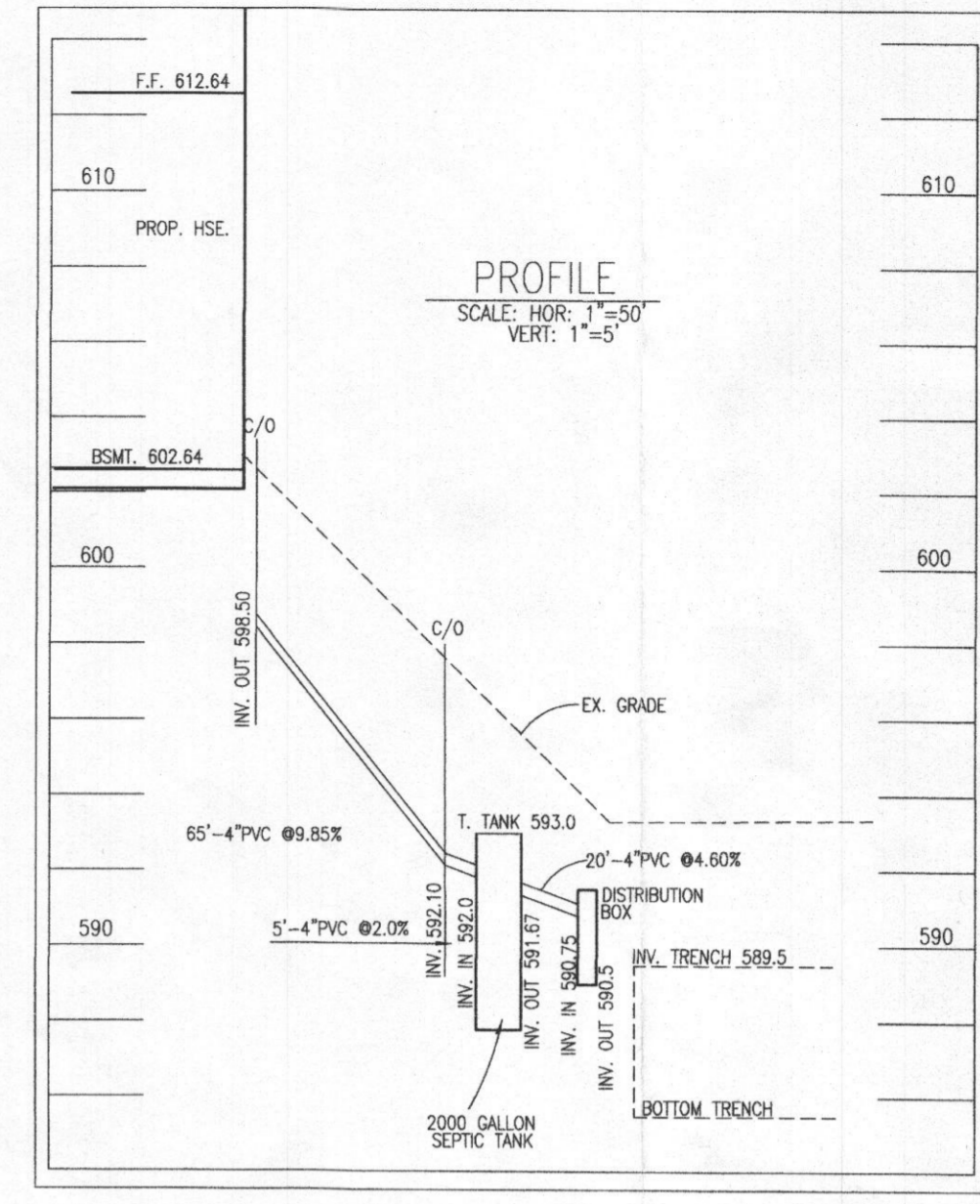
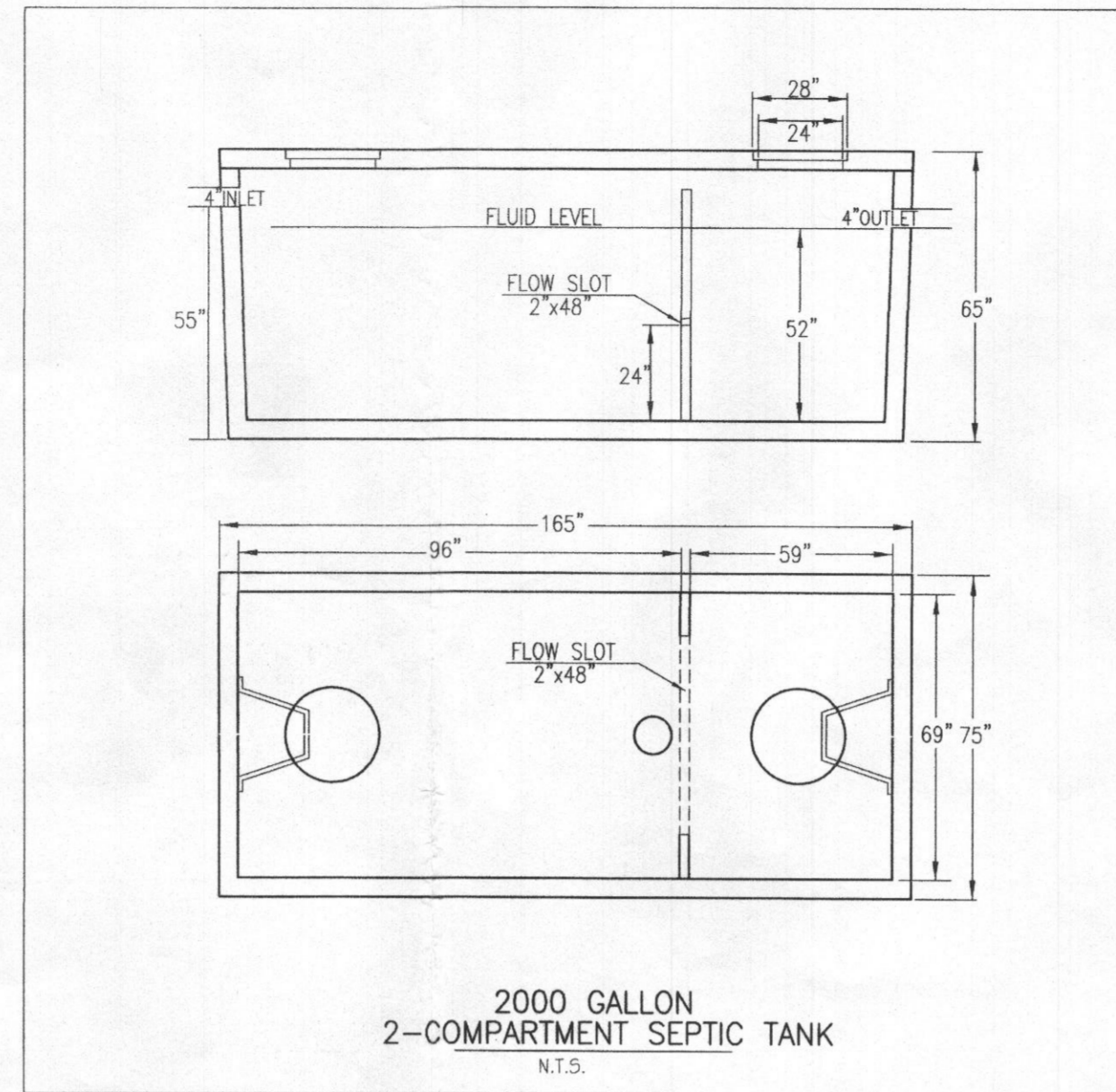
COPIES	DATE	DESCRIPTION
1	3/6/17	Email from Hank Oswald
3	3/7/17	On Site Sewage Disposal System Design Plan Lot 5, Terrapin Creek

**REMARKS:** Hi Hank, plan revised to reflect larger tank. Submitted for your review and approval.  
Thank you and have a great day!

**COPIES TO (ADDRESS):** Catonsville Homes, 11175 Stratford Court, Marriottsville, Maryland 21104

**SUBMITTED BY** dlv

G:ENGRS..B45428.Ho.Co.H.D lot 2 plot plan for bat submission 7.18.16

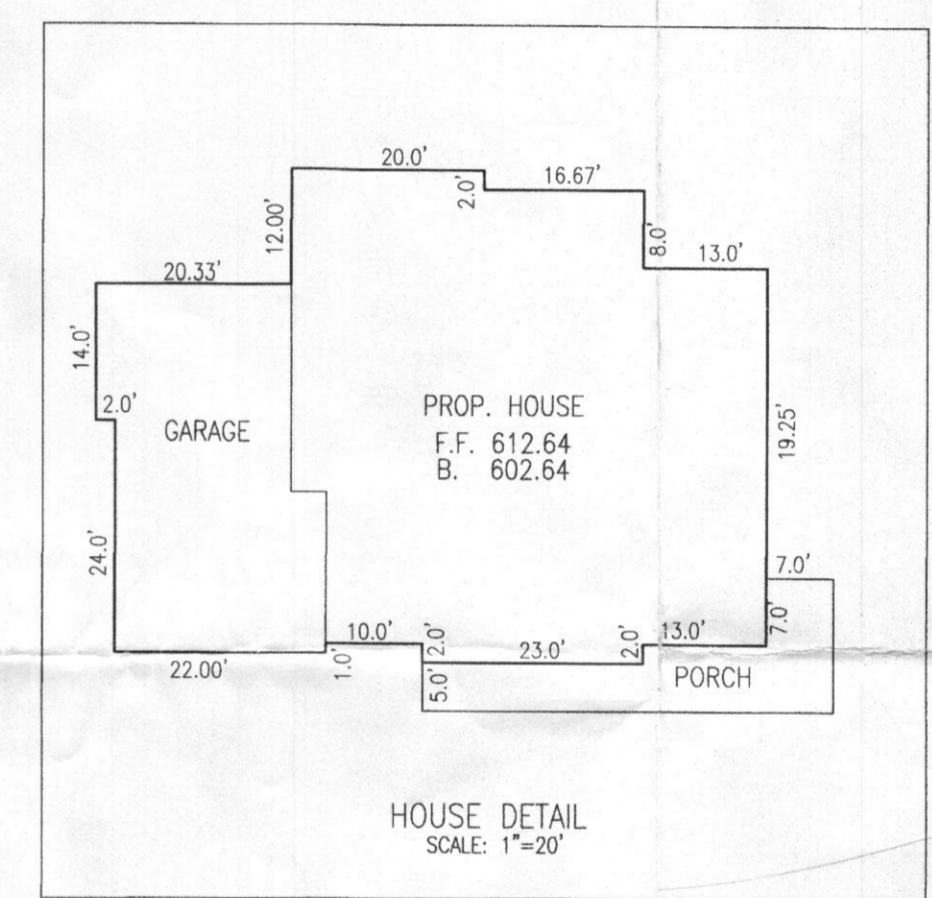


- GENERAL NOTES:
- TOPOGRAPHY & PLANIMETRIC FEATURES SHOWN HEREON TAKEN FROM COPYRIGHTED GIS DATA FROM HOWARD COUNTY, SUPPLEMENTED WITH FIELD LOCATIONS BY VANMAR ASSOCIATES, INC. CONTOUR INTERVAL IS 2 FEET. VERTICAL DATUM IS NAVD83.
  - THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES OR TAKEN FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.
  - ZONING DISTRICT: RC-DEO
  - LIMIT OF DISTURBANCE (LOD) = 22,150 SQ.FT.
  - THERE ARE NO STREAMS, PONDS, FLOODPLAINS OR WETLANDS ON THIS LOT.
  - STORM WATER MANAGEMENT FOR THIS LOT IS PROVIDED BY EXISTING TERRAPIN CREEK STORM WATER MANAGEMENT FACILITIES PROVIDED FOR AND CONSTRUCTED BY THE DEVELOPER UNDER PLAN F-07-086.

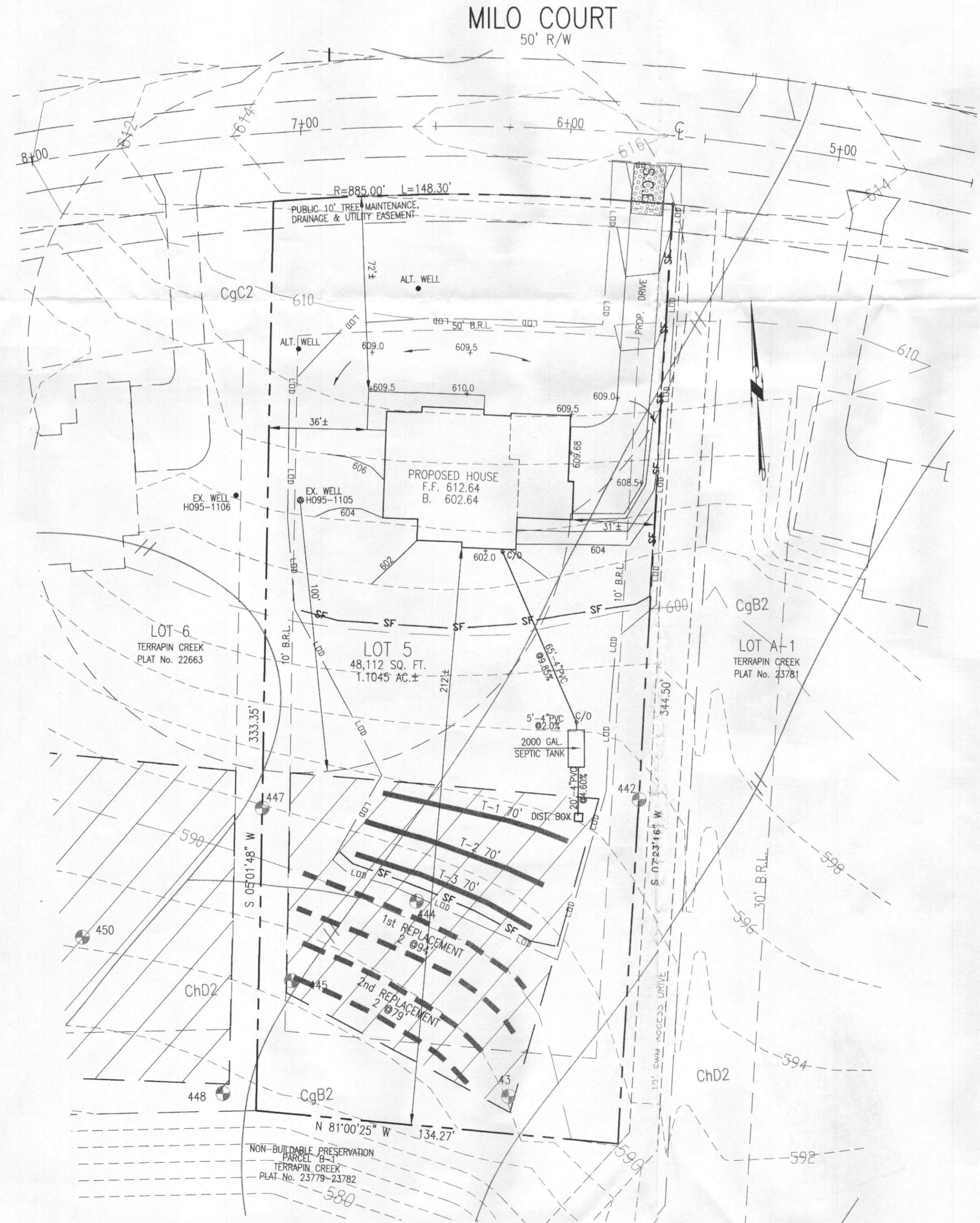
- SEPTIC SYSTEM TRENCH DESIGN
- INITIAL NUMBER OF BEDROOMS = 6  
 APPLICATION RATE = 0.6 GPD / sq.ft.  
 DESIGN FLOW: 150 GPD X 6 BEDROOMS = 900 GPD  
 900 GPD / 0.6 GPD/sq.ft. = 1500 sq.ft.  
 1500 sq.ft. / 3 ft. WIDE TRENCH = 500 LF TRENCH  
 500 LF TRENCH X 0.42 REDUCTION CREDIT = 210 LF TRENCH  
 TRENCH 1 (T1) EX. GRD=593.5 - INV. TRENCH=589.5 - B. TRENCH=585.5  
 TRENCH 1 (T1) EX. GRD=592.5 - INV. TRENCH=588.5 - B. TRENCH=584.5  
 TRENCH 1 (T1) EX. GRD=591.5 - INV. TRENCH=587.5 - B. TRENCH=583.5

- 1st REPLACEMENT  
 APPLICATION RATE = 0.8 GPD / sq.ft.  
 DESIGN FLOW: 150 GPD X 6 BEDROOMS = 900 GPD  
 900 GPD / 0.8 GPD/sq.ft. = 1125 sq.ft.  
 1125 sq.ft. / 3 ft. WIDE TRENCH = 375 LF TRENCH  
 375 LF TRENCH X 0.50 REDUCTION CREDIT = 188 LF TRENCH

- 1st REPLACEMENT  
 APPLICATION RATE = 0.8 GPD / sq.ft.  
 DESIGN FLOW: 150 GPD X 6 BEDROOMS = 900 GPD  
 900 GPD / 0.8 GPD/sq.ft. = 1125 sq.ft.  
 1125 sq.ft. / 3 ft. WIDE TRENCH = 375 LF TRENCH  
 375 LF TRENCH X 0.42 REDUCTION CREDIT = 158 LF TRENCH



- SITE PLAN 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.
  - MAXIMUM COVER OVER THE TANK IS 3 FEET. GREATER DEPTH WILL REQUIRE A HEAVY LOAD BEARING TANK.
  - ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
  - THE WELL (TAG #10-95-1105) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
  - ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADE/OF ANY WELLS AND OR SEPTIC SYSTEMS HAVE BEEN SHOWN.



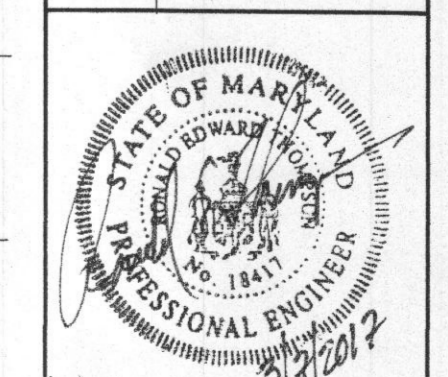
Approved Septic System Plan  
 Howard County Health Department  
 Hank Oswald 3/23/17  
 Signature Date

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. 18412, Expiration Date: 9-18-17.

DATE	REVISIONS
03/07/17	2000 GAL SEPTIC TANK

OWNER:  
 LDG INC.  
 LEE PLAZA, SUITE 200  
 8601 GEORGIA AVENUE  
 SILVER SPRING, MD. 20910  
 301-585-7000

DEVELOPER:  
 CATONVILLE HOMES  
 11175 STRATFIELD CT.  
 MARRIOTTVILLE, MD. 21104  
 410-442-2211



ON SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

LOT 5  
 TERRAPIN CREEK  
 PLAT 22661 - 22664  
 TAX ID No. 03-285774  
 12717 MILO COURT  
 THIRD ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 30' FEBRUARY, 2017

SHEET 1 OF 1

VANMAR ASSOCIATES, INC.  
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