

## **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

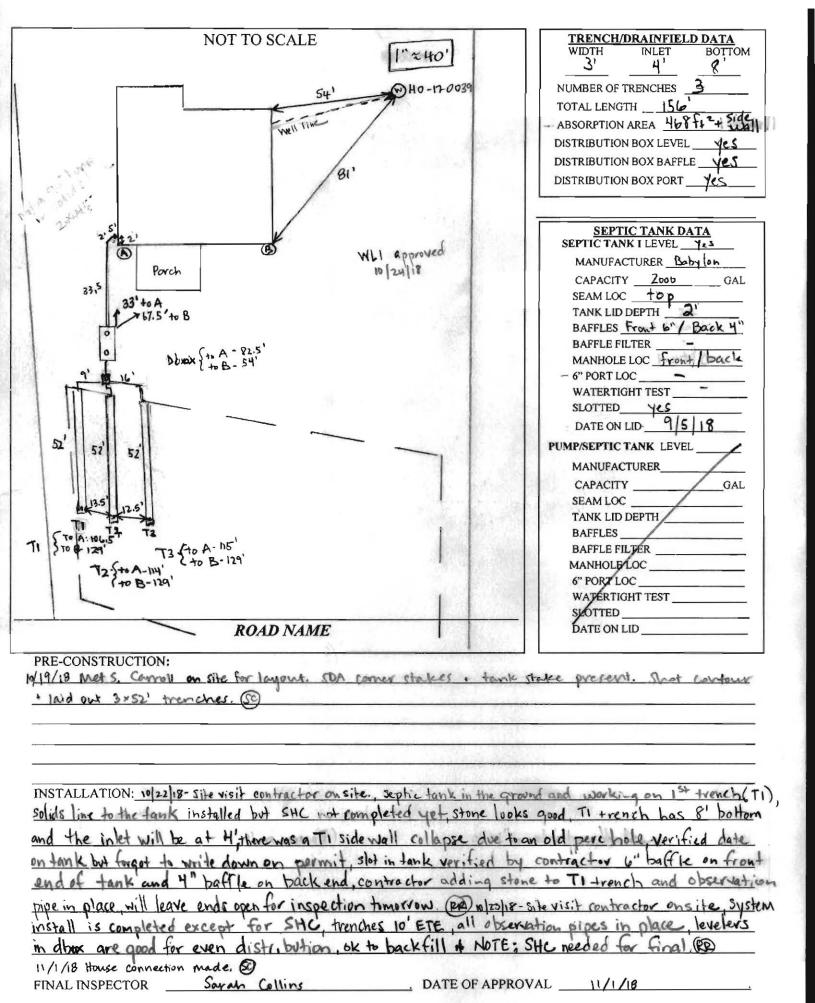
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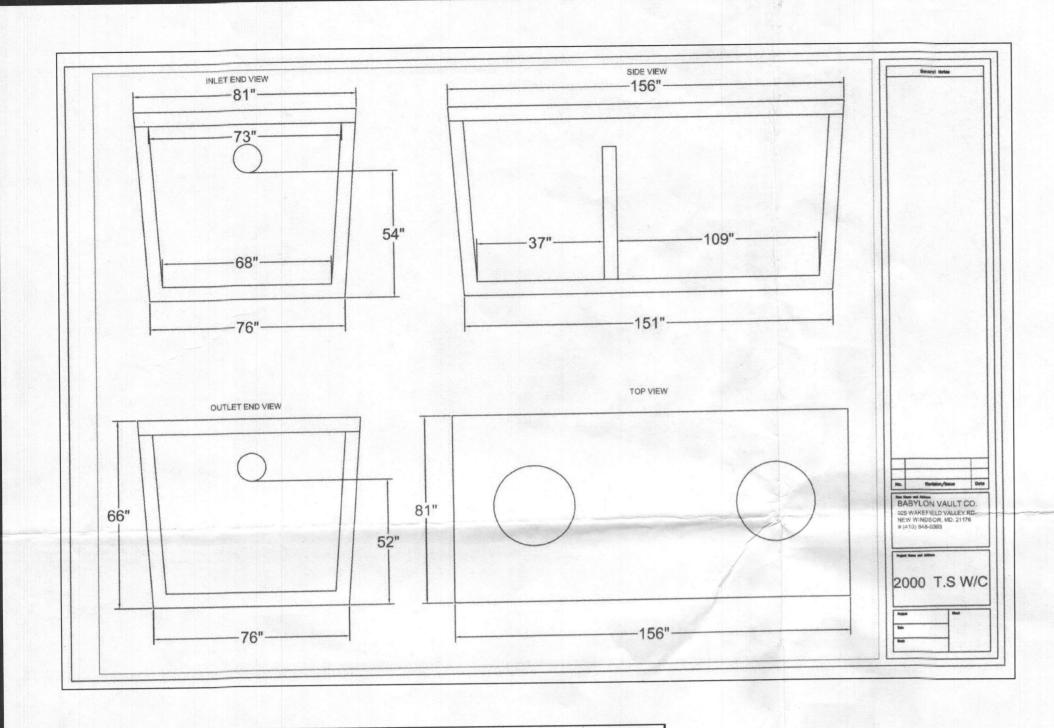
Maura J. Rossman, M.D., Health Officer

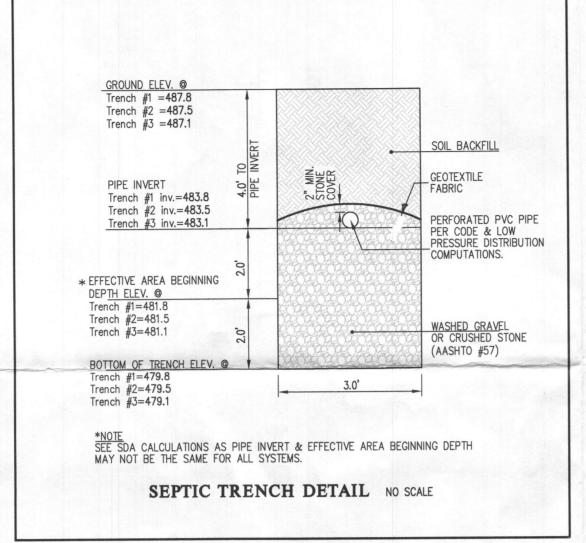
RECEIPT DATE: 10218 ONSITE SEWAGE DISPOSAL SYSTEM P 504016								
APPROVAL DATE: 11/1/18 SEC PERMIT: CONSTRUCTION A								
PROPERTY ADDRESS: 13810 Mill Creek Court								
SUBDIVISION: Crawford and O'Keefe Property (MIII Creek) LOT: 2 TAX ID: 05-600-760								
CONTRACTOR: South Carroll Backhoe EMAIL: scbackhoe@comcast.com								
CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157 PHONE: 410-596-3618								
PROPERTY OWNER: NVR INC. EMAIL:								
OWNER ADDRESS: 9720 Patuxent Woods Drive, Columbia, MD 21046 PHONE: 410-379-5956								
SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Mayer Brothers or Equivalent								
PUMP MODEL: N/A PUMP SIZE N/A PUMP TANK CAPACITY: N/A								
DISTRIBUTION SYSTEM:  GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE 1.2								
LINEAR FEET REQUIRED: 156.3 INLET DEPTH. 3/4								
TRENCHES: TRENCH WIDTH: 3 MAXIMUM BOTTOM DEPTH: 8								
MINIMUM SPACE BETWEEN TRENCHES: 10 EFFECTIVE AREA BEGINNING DEPTH: 6								
LOCATION: PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.								
NOTES:								
ISSUEC BY: Dana Bernard ISSUE DATE: 18 EXPIRATION DATE: 18 19								
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								

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

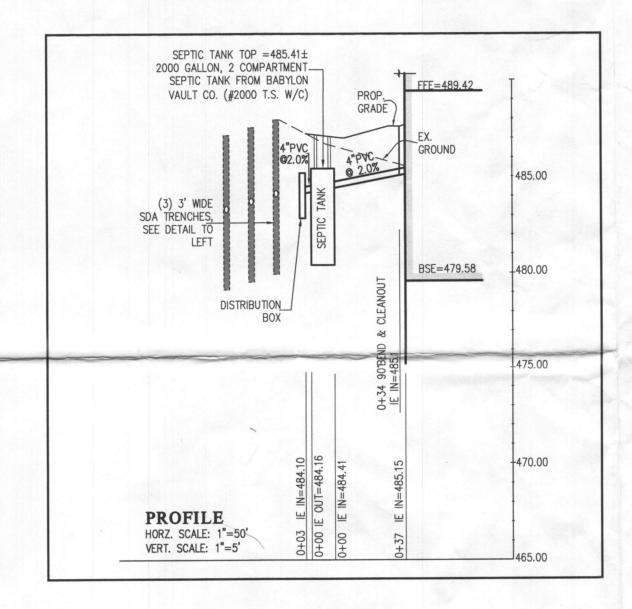
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT. CALL 410-313-1771 TO SCHEDULE INSPECTIONS.







Crawford Subdivison (Mill Creek)	Lot 2		
System Input Information	Initial System	Replacem't System No.1	Replacem't System No.2
Application Rate	1.2	1.2	1.2
Effective area beginning depth	6.0	5.0	4.0
Effecitve area maximum bottom depth	8.0	8.0	8.0
Number of Bedrooms	6	6	6
Design flow at 150 gal./day/bedroom	900	900	900
Absorption Trench Calculations			
Drainfield area required (Design flow/application rate)	750 s.f.	750 s.f.	750 s.f.
Effluent pipe depth to invert (cannot exceed 4'. If < 2', then field run topo at 1-ft interval is required).	4.0	4.0	4.0
Effective sidewall depth "D" = depth between the effective beginning depth or pipe depth (which ever is deeper) and maximum trench bottom.	2.0	3.0	4.0
Trench Width "W" (2 or 3 feet)	3.0	3.0	3.0
Sidewall Reduction Percent = (W+2/(W+1+2D)	62.50%	50.00%	41.67%
Linear feet of trench required =(drainfield area x sidewall reduction)/W	156.3	125.0	104.2
Trench Layout Information			
Number of trenches to use	3	2	2
Min. length (linear feet)	52.1	62.5	52.1
Total (linear feet)	156.3	125.0	104.2
Minium Trench Spacing:	10.0	10.0	11.0
For trenches with no sidewall credit the spacing is 6' for a 2' wide trench and 9' for a 3' wide trench (measured edge to edge). All trenches utilizing sidewall reduction credit must be spaced a min. of 10' for effective sidewall not over 3.5'. If >3.5'. then spacing formular is 2D+W up to a maximum of 18'.			



Approved Septic System Plan
Howard County Health Department
Decurated 8-6-18
Signature Date

GLW
PLANNING ENGINEERING SURVEYING
3909 NATIONAL DRIVE   SUITE 250   BURTONSVILLE, MD 20866   GLWPA.COM
PHONE: 301-421-4024   BALT: 410-880-1820   DC&VA: 301-989-2524   FAX: 301-421-4186
1110112.001 121 1021 121

DESIGNED BY:				
MBT				
DRAWN BY:				
KLP				F CASE
CHECKED				
BY: CKG	DATE	REVISION	BY	APP'R.

PREPARED FOR:

NVR INC.

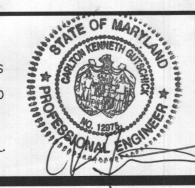
9720 PATUXENT WOODS DRIVE
COLUMBIA, MARYLAND 21046
PH: 410-379-5956

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS 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.12975

EXPIRATION DATE: MAY 26, 2020

7 24 18



GRAPHIC SCALE ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN G. L. W. FILE No. SCALE ZONING 17071 1"=30' RR-DEO CRAWFORD SUBDIVISION LOT 2 (13801 MILL CREEX COURT)
PLAT No. 24600-24607 SHEET TAX MAP - GRID DATE 34&39-19&6 JULY 2018 HOWARD COUNTY, MARYLAND LECTION DISTRICT No. 5

LEGEND

TOW

BSE

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 IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.

 THE WELL (TAG #17-0039) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.

4. 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.

\_\_\_\_\_6<u>00</u> \_\_ \_ \_ EXISTING CONTOUR

PROPOSED CONTOUR

PRIVATE SEWAGE DISPOSAL AREA

INITIAL SYSTEM 3' WIDE TRENCH

1st REPLACEMENT SYSTEM TRENCH
2nd REPLACEMENT SYSTEM TRENCH

FIRST FLOOR ELEVATION

TOP OF FOUNDATION WALL

BASEMENT SLAB ELEVATION

SITE /



NOTES:

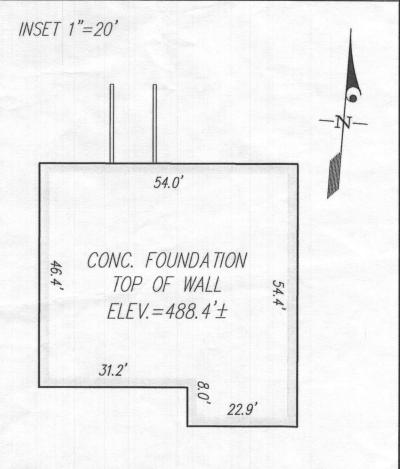
THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS—OF—WAY, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED.

THIS IS <u>NOT</u> A "LOCATION DRAWING" AND IS NOT TO BE USED FOR SETTLEMENT PURPOSES.

THE PROPERTY SHOWN HEREON LIES WITHIN ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON THE F.E.M.A. FLOOD INSURANCE RATE MAP, MAP NUMBER 24027C0140D, EFFECTIVE DATE NOVEMBER 6, 2013.

BUILDING SETBACKS (B.R.L.'S) SHOWN HEREON PER PLOT PLAN.

SETBACK DISTANCES SHOWN HEREON ARE TO THE OUTERMOST FACE OF THE FOUNDATION WALLS AND HAVE AN ACCURACY OF  $\pm$  0.1' FOOT.



WALLCHECK (SPECIAL PURPOSE SURVEY)

CRAWFORD SUBDIVISION

LOT 2 13810 MILL CREEK COURT

HOWARD COUNTY, MARYLAND

DATE OF LATEST FIELD WORK: 9/18/2018

G.L.W. FILE No.

REFERENCE : PLAT No.: 24602

SCALE: 1"=50"

17071

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