



**Howard County
Health Department**

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: 6-28-19

ONSITE SEWAGE DISPOSAL SYSTEM

P 565538

APPROVAL DATE: 07/10/2019

PERMIT: CONSTRUCTION

A _____

PROPERTY ADDRESS: 13870 Mill Creek Court

SUBDIVISION: Crawford & O'Keefe

LOT: 12

TAX ID: _____

CONTRACTOR: South Carroll Backhoe

EMAIL: scbackhoe@comcast.net

CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157

PHONE: (410) 596-3618

CONTRACTOR CERTIFIED FOR BAT INSTALLATION:

MDE

MANUFACTURER

NOT BAT

PROPERTY OWNER: NVR Inc.

EMAIL: _____

OWNER ADDRESS: 9720 Patuxent Woods Drive, Columbia, MD 21046

PHONE: 410-379-5956

SEPTIC TANK SIZE: 2000 GALLON

TANK

MANUFACTURER:

BABYLON

OPERATION & MAINTENANCE AGREEMENT

DATE SIGNED: _____

DATE RECORDED: _____

DISTRIBUTION SYSTEM:

GRAVITY

PRESSURE DOSED

BEDROOMS: 5

APPLICATION RATE: 1.2

TRENCHES:

LINEAR FEET REQUIRED: 104.2

INLET DEPTH: 3

TRENCH WIDTH: 3

MAXIMUM BOTTOM DEPTH: 8

MINIMUM SPACE

BETWEEN TRENCHES: 10

EFFECTIVE AREA BEGINNING DEPTH: 5

LOCATION:

PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.

NOTES:

Install 2 trenches 53 feet long on contour. Tank is in a swale on OSDS. Please relocate in the field.

7/3/2019
TANK NOT IN SWALE. NO SWALE
OPS ON OSDS. (+)

ISSUED BY: Dana Bernard

ISSUE DATE: 6-28-19

EXPIRATION DATE: 6-28-20

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 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: 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

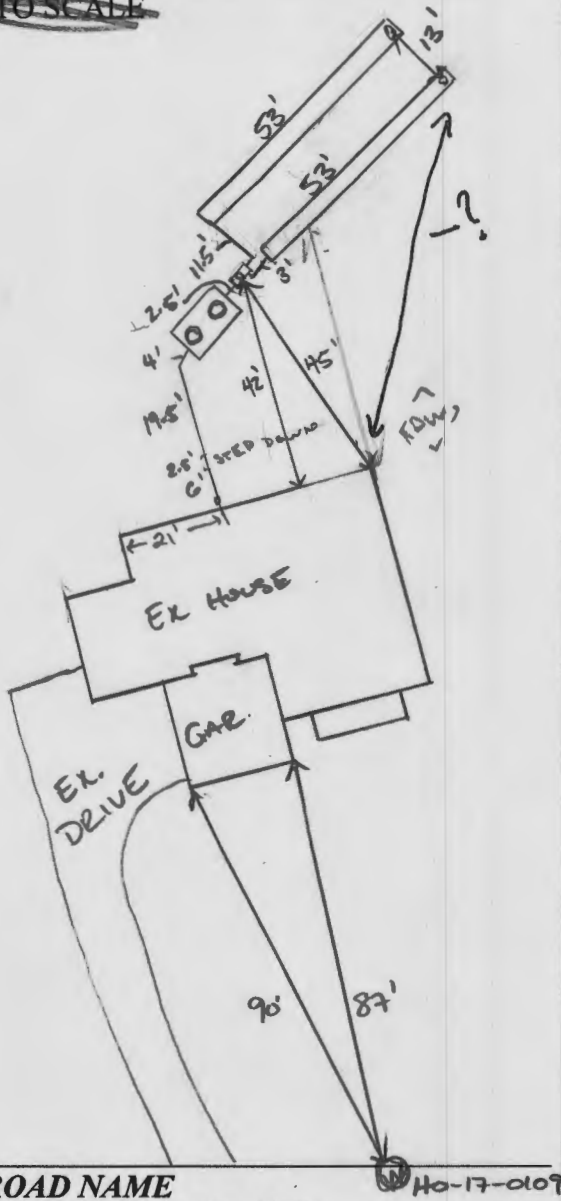
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

≈ 1:40

NOT TO SCALE



ROAD NAME
MILL CREEK COURT

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		106
ABSORPTION AREA		318
DISTRIBUTION BOX LEVEL		SPEED
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	24" - 1ea
BAFFLES	YES
BAFFLE FILTER	-
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	05/06/2019
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:

7/3/2019 TANK NOT IN SWALE. DWG PREVENTING ROTATION. TRENCHES AND SDA STAKED. 2 x 53' TRENCHES. LOWER TRENCH: DISTAL END 7" LOWER. AREA LOOKS DISTURBED. START AT PROXIMAL END. OK TO START.

INSTALLATION:

7/3/2019 SHC INSTALLED W/ SEWER LINE. TANK SET IN LOCATION. 7/9/2019 TRENCHES COMPLETE. D Box INSTALLED AND LEVELLED W/ SPEED LEVELS. OK TO BACKFILL. (+)

FINAL INSPECTOR

DATE OF APPROVAL

07/10/2019



GLW

PLANNING | ENGINEERING | SURVEYING

3909 NATIONAL DR. SUITE 250
BURTONSVILLE, MD 20866
301-421-4024 | FAX: 301-421-4186
WWW.GLWPA.COM

LETTER OF TRANSMITTAL

TO: Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD 21045

ATTN: _____

DATE	3-27-2018	JOB NO.	17071
PROJECT	Crawford Subdivision		
	Lot 12 (13870 Mill Creek Ct.)		

WE ARE SENDING THE FOLLOWING ITEMS:

- ATTACHED UNDER SEPARATE COVER
 MYLARS PRINTS COST ESTIMATES DESCRIPTIONS GRADE SHEETS
 COPY OF LETTER APPLICATIONS COMPUTATIONS OTHER _____

- VIA:** MAIL OVERNIGHT GLW COURIER COURIER OTHER _____

COPIES	DATE	PAGES	DESCRIPTION
3		1 of 1	OSDS Plan for Crawford Subdivision - Lot 12 (13870 Mill Creek Ct.)

THESE ARE TRANSMITTED as checked below:

- FOR APPROVAL SIGN & RETURN
 FOR YOUR USE AS SUBMITTED TO _____
 FOR REVIEW & COMMENT AS REQUESTED BY _____
 PER YOUR REQUEST _____

REMARKS: _____

COPY TO: _____

SIGNED: Kristy Pierce
Kristy Pierce

If enclosures are not as noted, kindly notify us at once.



Bureau of Environmental Health

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Twitter: HowardCoHealthDep

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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: _____

Subdivision: Crawford and O'Keffe Lot: 12

Initial system: Application rate: 1.2 Effective area beginning depth: 5 Bottom maximum depth: 8

1st Replacement: Application rate: 1.2 Effective area beginning depth: 7 Bottom maximum depth: 8

2nd Replacement: Application rate: 1.2 Effective area beginning depth: 5.5 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:

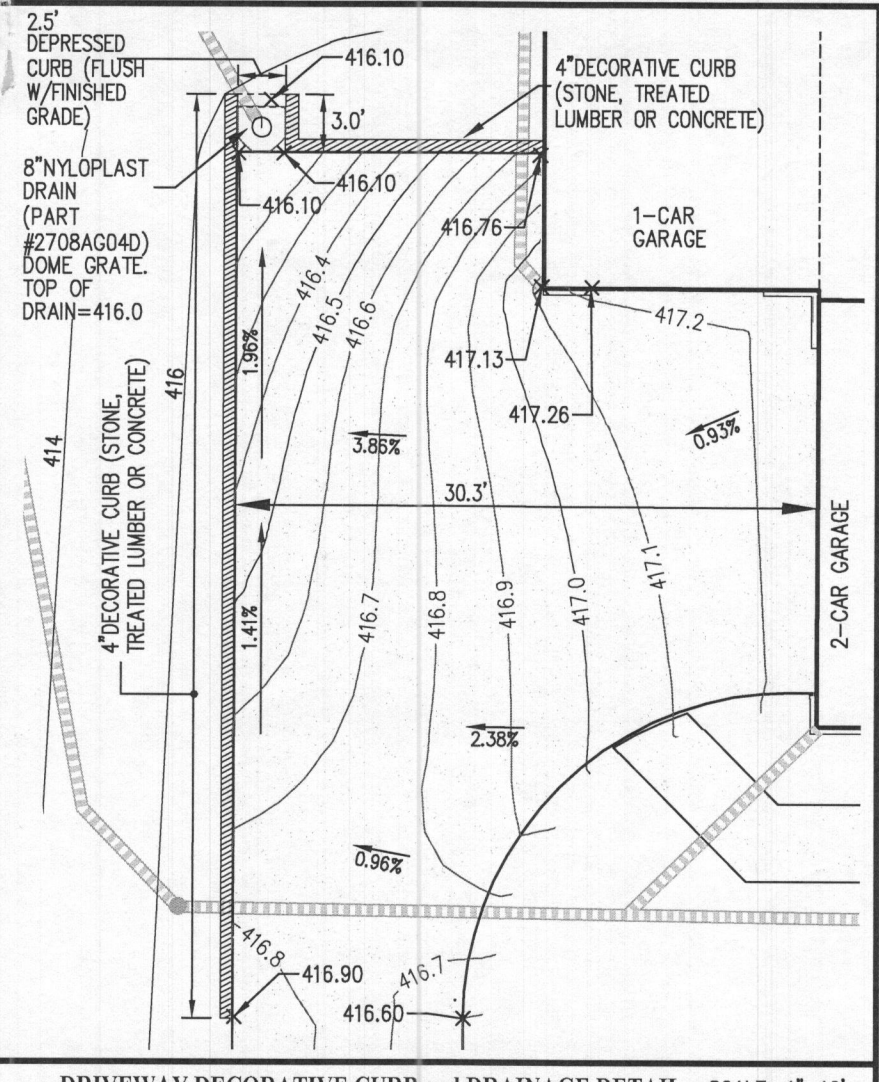
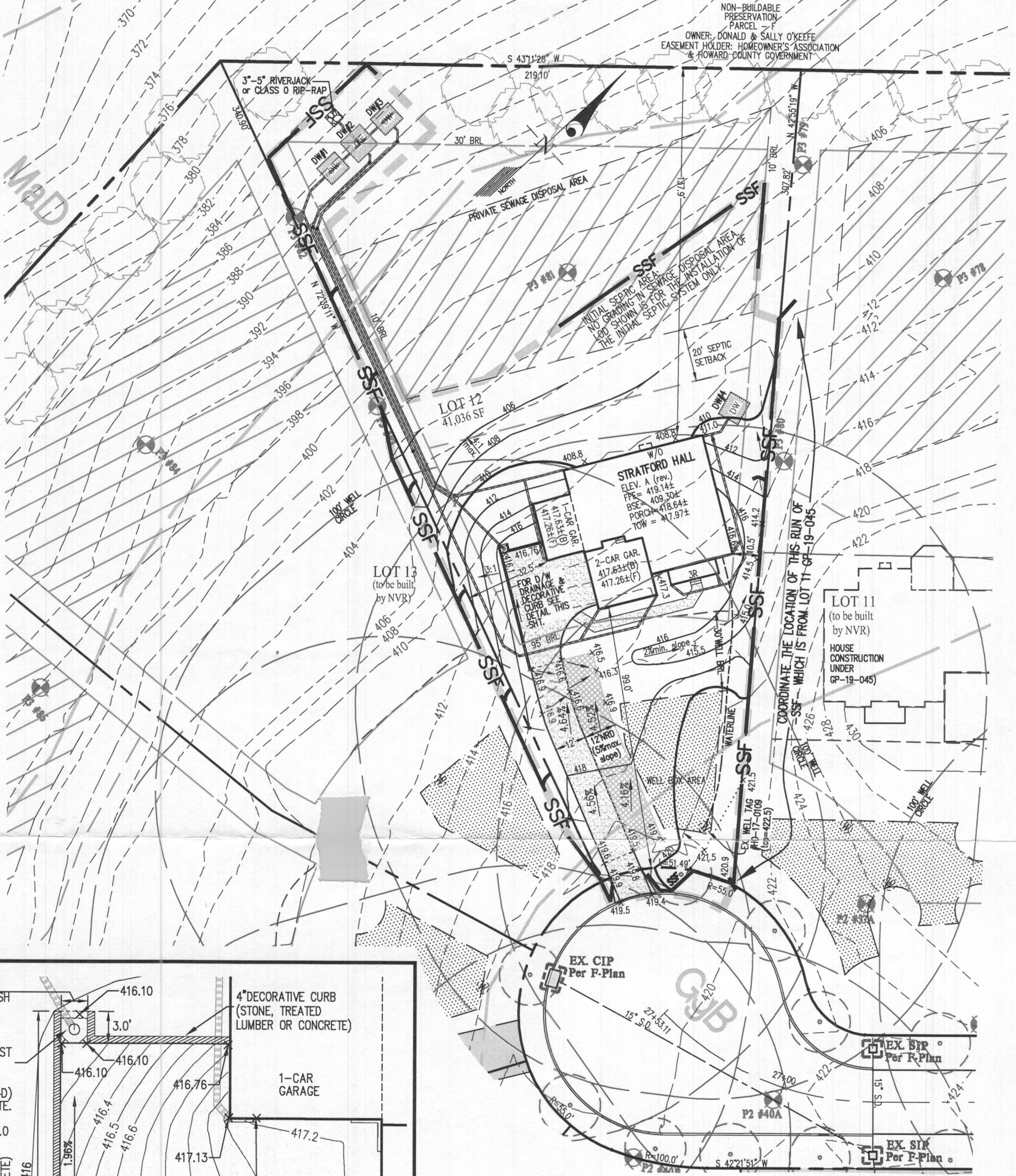
(W + 2) / (W + 1 + 2D) x 100 = Percent of length of standard trench where W=trench width and D= depth between effective area beginning depth and trench bottom.

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
All trenches must be on contour
Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D +W up to a maximum spacing of 18'.
Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
Maximum trench length is 100'
Maximum pipe depth is 4'

Additional requirements:

Approved: Dana Bernard Date: 2/20/2018

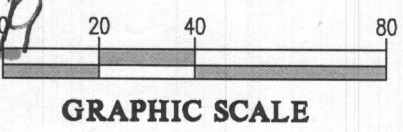


Approved Septic System Plan
Howard County Health Department
DBernard 5-6-19
Signature Date
3 BR only

DRYWELL (M-5) SIZE CHART

DRYWELL No.	LENGTH x WIDTH	DEPTH OF STONE
1	8'x9'	5'
2	10'x10'	5'
3	8'x9'	5'
4	8'x9'	5'

FOR CONSTRUCTION DETAILS OF DRYWELL(S) SEE F-17-016, SHEET 33.



DRIVEWAY DECORATIVE CURB and DRAINAGE DETAIL SCALE: 1"=10'

NOTE: THE FRONT DOOR FOR LOT 12 FACES EAST

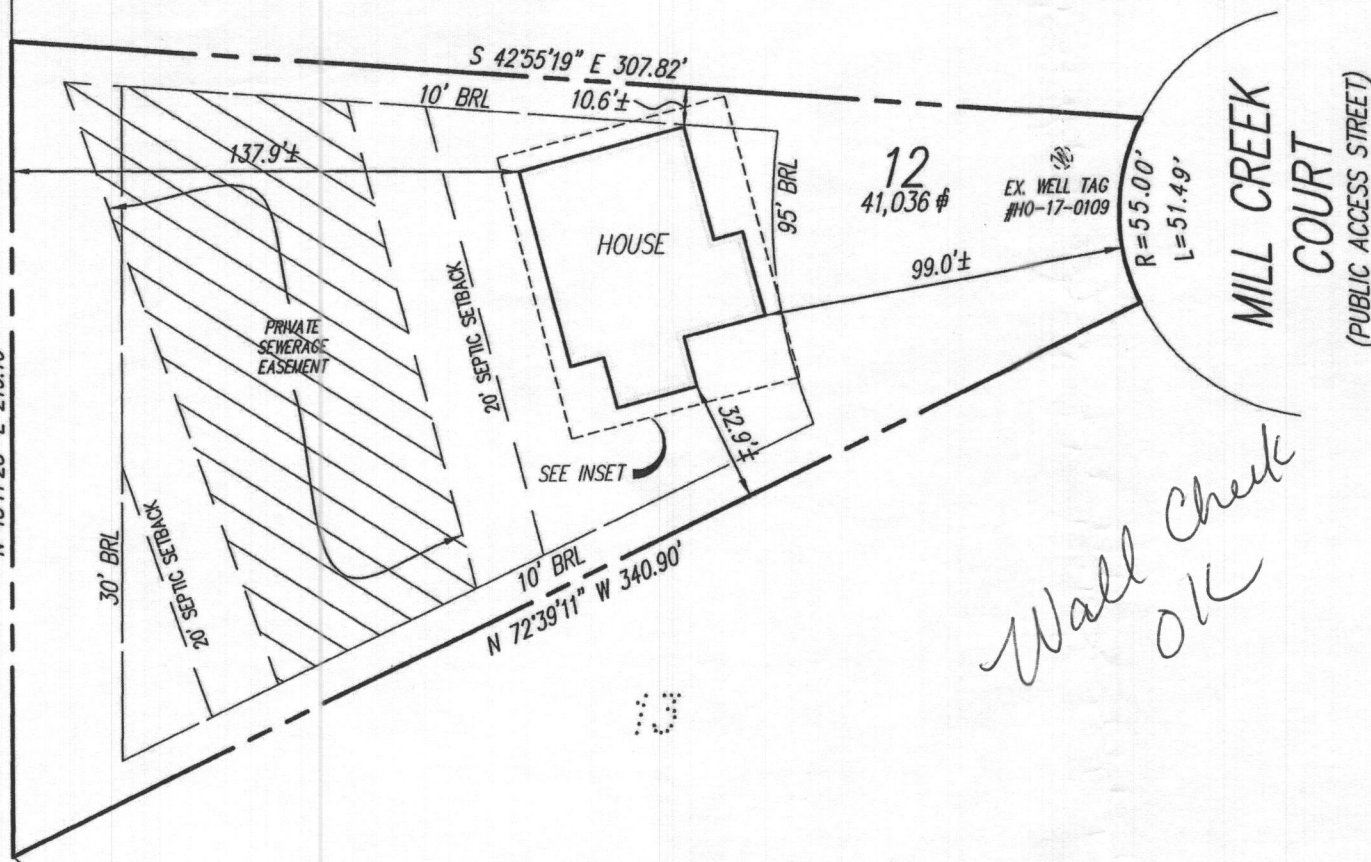
BUILDING PERMIT PLOT PLAN

<p>GLW PLANNING ENGINEERING SURVEYING</p>	DES.	PREPARED FOR : NVR INC. 9720 PATUXENTS WOODS DRIVE COLUMBIA, MD 21045 PH: 410-379-5956	CRAWFORD SUBDIVISION LOT 12 (13870 MILL CREEK CT.) Plat No. 24600-24607	G. L. W. No.	17071
	DRN.			ZONING	RR-DEO
	CHK.			TAX MAP/GRID	34&39-19&6
L:\cadd\drawings\17071\plans by glw\plot plans\lot 12\17071 MC_LOT 12 PLOT PLAN.dwg				DATE	APRIL 2019
				SCALE	1"=40'
				SHEET	1 OF 1

S:\Survey Drawings\WALLCHECK\MILL CREEK-17071\WCK-12.dwg, 6/13/2019 11:00:07 AM, morgantb, 5501_SURVEY (COLOR).pc3, 1:1

NON-BUILDABLE
PRESERVATION
PARCEL F

N 43°11'28" E 219.10'



NOTES:

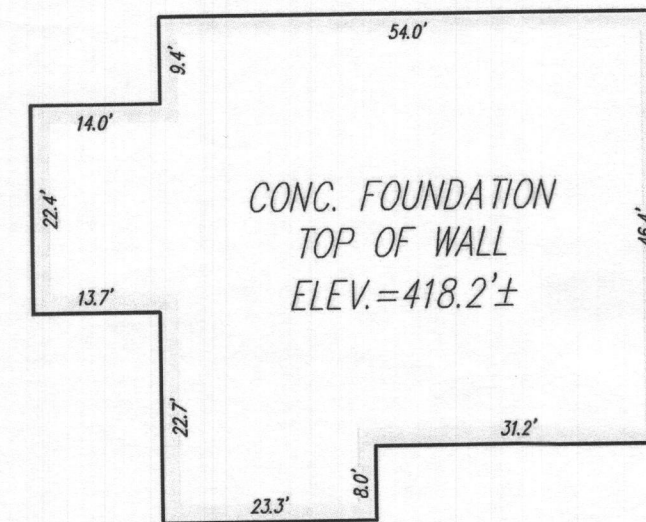
THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS-OF-WAY, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED.
THIS IS NOT 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 ± 0.1' FOOT.

INSET 1"=20'



WALLCHECK
(SPECIAL PURPOSE SURVEY)

CRAWFORD SUBDIVISION

LOT 12
13870 MILL CREEK COURT

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY TO:
'NVR, INC.'

THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF,
THE POSITION OF THIS BUILDING FOUNDATION
HAS BEEN ESTABLISHED BY ACCEPTED FIELD PRACTICES.

Thomas C. O'Connor, Jr.
For Gutschick, Little and Weber, P.A. :
Thomas C. O'Connor, Jr.,
Professional Land Surveyor, No. 10954 (EXP. DATE: 07/03/2020)

THIS WALLCHECK IS VALID ONLY WITH AN ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE SURVEYOR.



DES.

DRN. MAB

CHK.

PREPARED FOR:
NVR, INC.
9720 PATUXENT
WOODS DRIVE
COLUMBIA, MD 21046

HOWARD COUNTY, MARYLAND

DATE OF LATEST FIELD WORK: 6/12/2019

G.L.W. FILE No. 17071

REFERENCE: PLAT No.: 24602

SCALE: 1"=50'