



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: 5/15/19 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 565491-A

APPROVAL DATE: 5-15-19 **PERMIT: CONSTRUCTION**

A

PROPERTY ADDRESS: 5043 Gaither's Chance Drive

SUBDIVISION: Gaither's Chance

LOT: 15

TAX ID: 05-598962

CONTRACTOR: South Carroll Backhoe

EMAIL: scbackhoe@comcast.net

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: 301-762-9511

SEPTIC TANK SIZE (GALLONS): 2000

TANK MANUFACTURER: Babylon

PUMP MODEL: N/A

PUMP SIZE

N/A

PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM: ☒ GRAVITY

☐ PRESSURE DOSED

BEDROOMS: 6

APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>104.16</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>6</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>2</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: 5-15-19 EXPIRATION DATE: 5-15-20

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 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

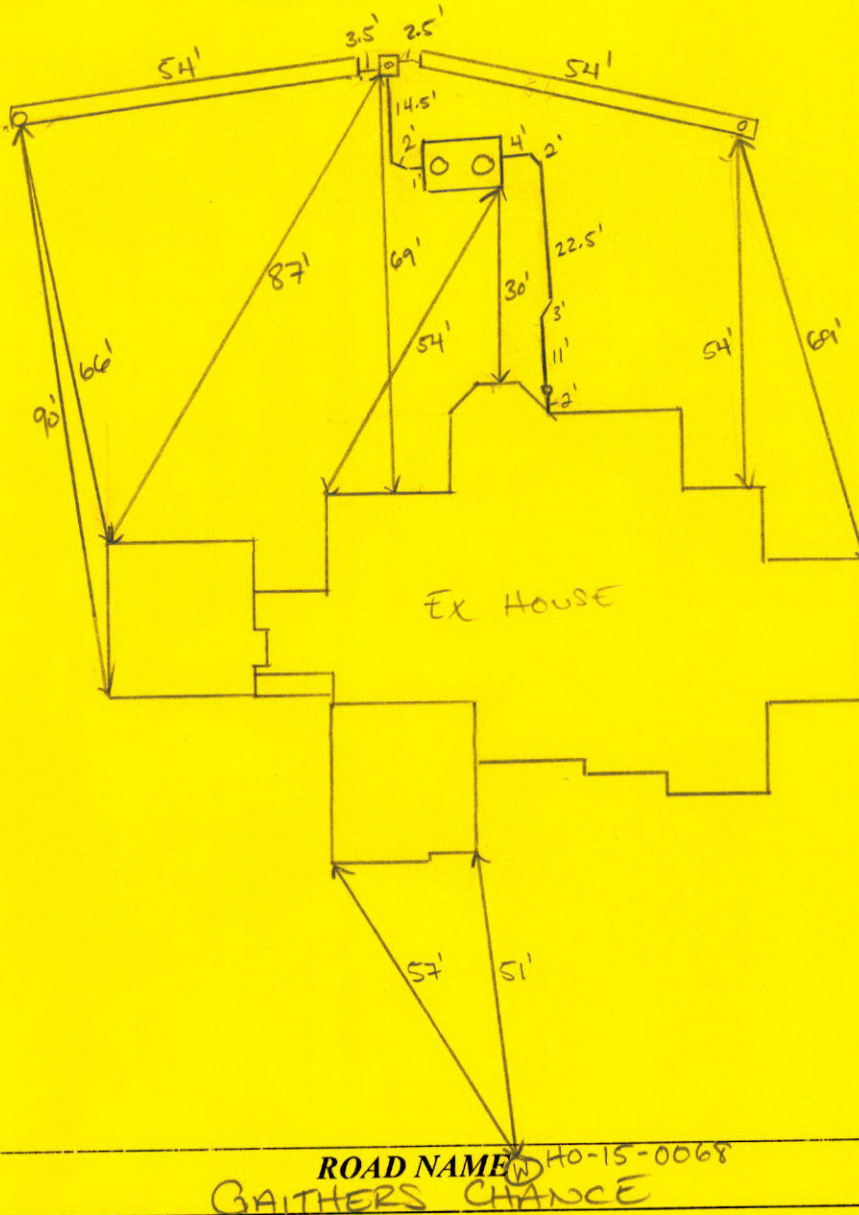
NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

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.

NOT TO SCALE



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4'	6'
NUMBER OF TRENCHES 2		
TOTAL LENGTH 108 F		
ABSORPTION AREA 324 SF		
DISTRIBUTION BOX LEVEL SPEED		
DISTRIBUTION BOX BAFFLE YES		
DISTRIBUTION BOX PORT YES		

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL YES
 MANUFACTURER BABYLON
 CAPACITY 2000 GAL
 SEAM LOC TOP
 TANK LID DEPTH 23'
 BAFFLES YES
 BAFFLE FILTER NO
 MANHOLE LOC FRONT/BACK
 6" PORT LOC none
 WATERTIGHT TEST -
 SLOTTED YES
 DATE ON LID 06/07/2019

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:

6/4/2019 TANK, SDA, AND TRENCHES WERE STAKED. HOUSE OUT WAS RAISED. FALL OK. OK TO START (u)

INSTALLATION:

06/05/2019 TANK PRT DUG. WORKING ON TRENCHES AT TIME OF INSPECTION. @ 6/6/2019 TANK AND SAC COMPLETED. OK TO BACKFILL. @ 6/7/2019 D BOX SET AND INSTALLED TO TANK AND TRENCHES. LEVELED W/ SPEED LEVELS. OK TO COVER. (u)

FINAL INSPECTOR

DATE OF APPROVAL 06/07/2019

FILE INQUIRY NOTES

Marshall Property Subdivision

DATE

RESULTS OF REVIEW FOR FILE

(5027 Ten Oaks Road)

ANY LOT

Design Septic System

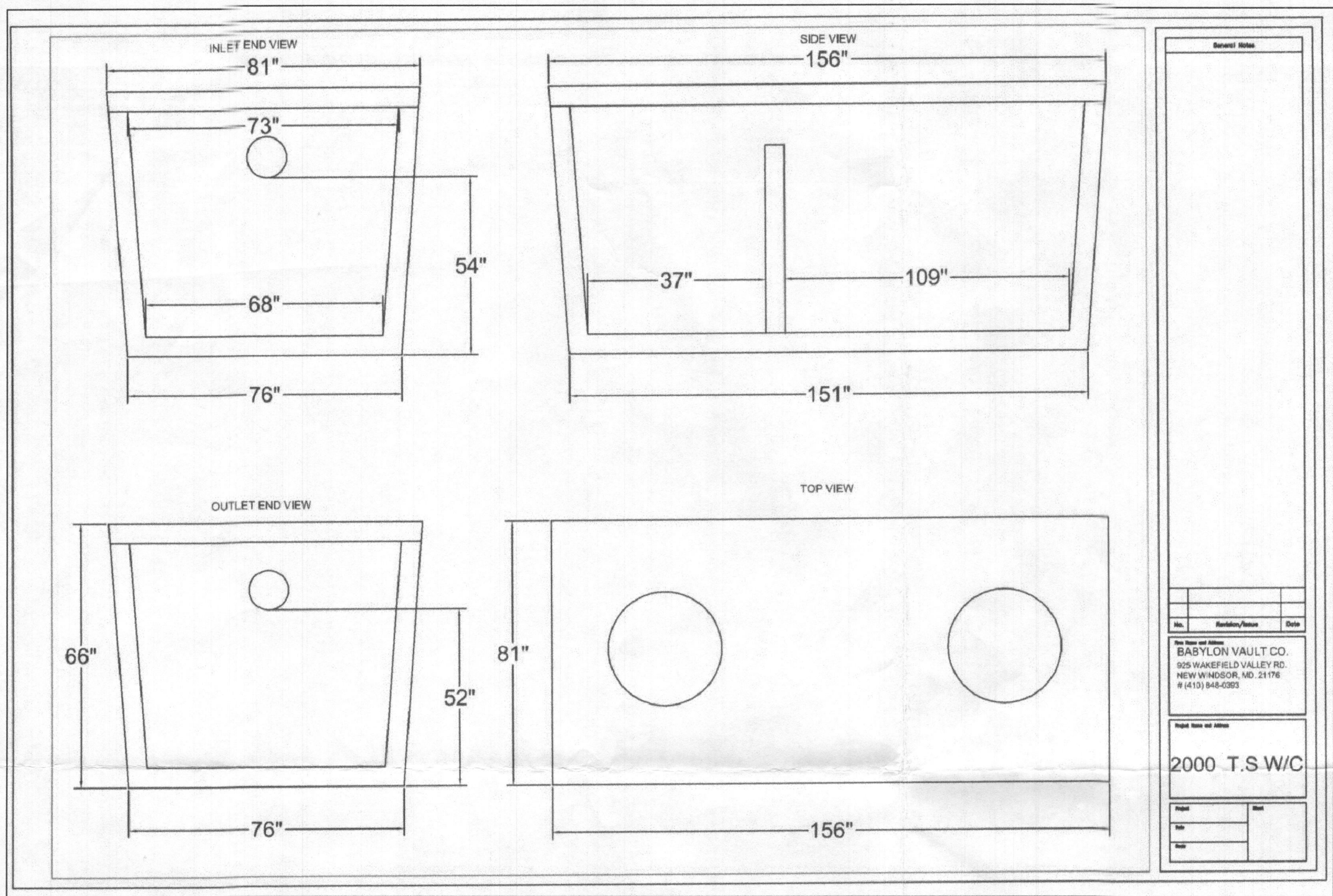
Distribution Trenches

as shallow as possible

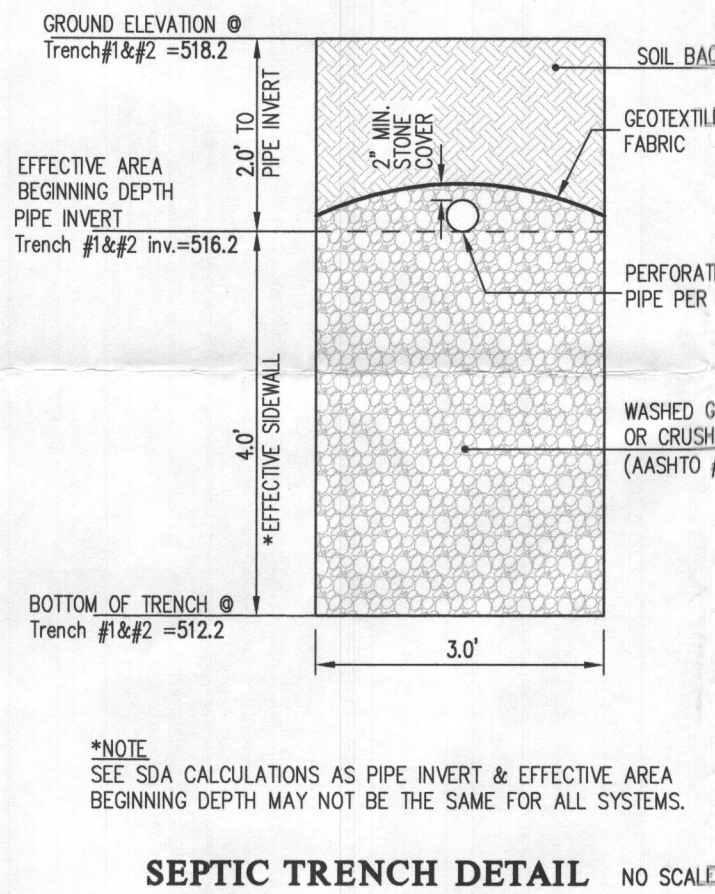
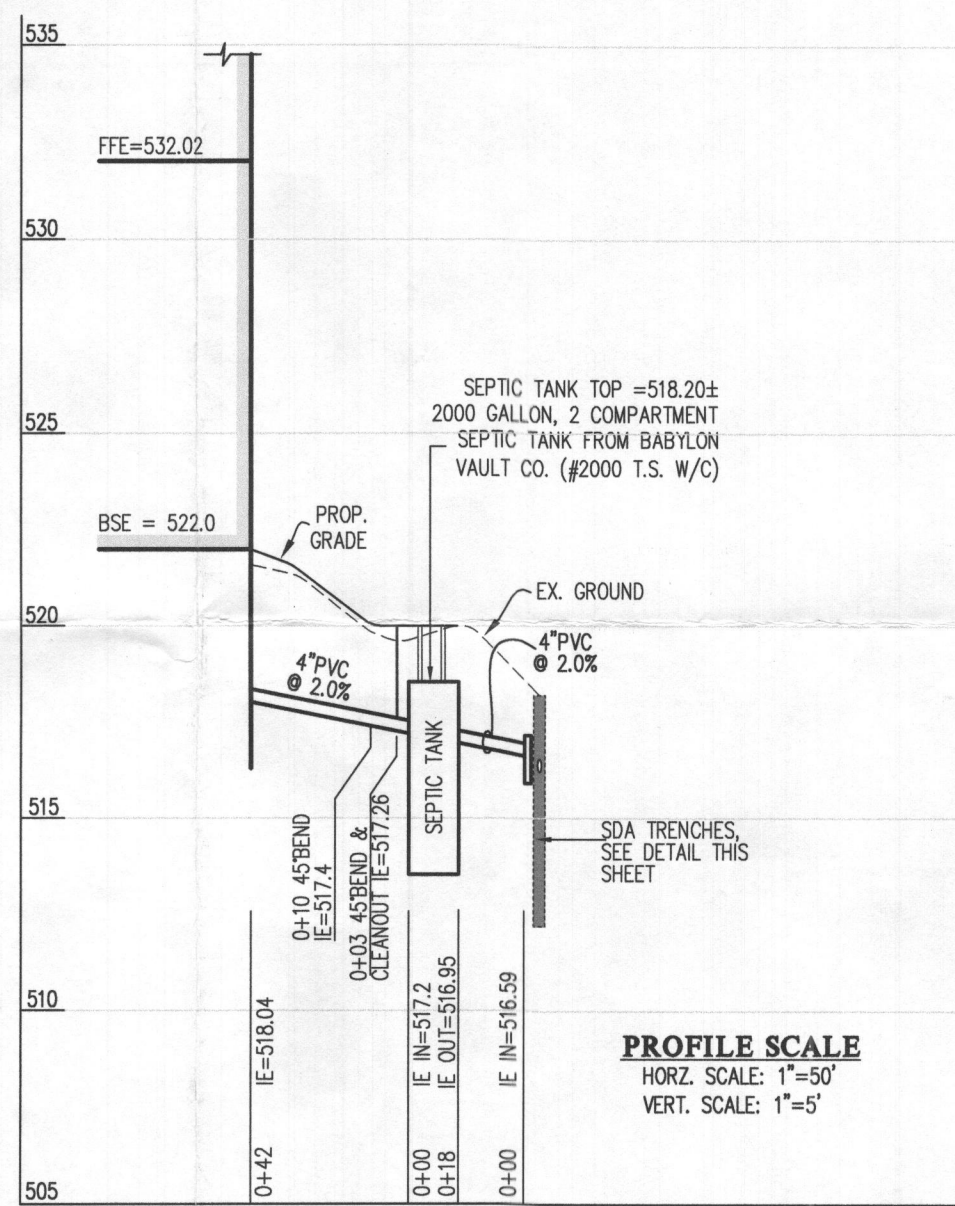
AND still have at least

3 drain fields in SDA.

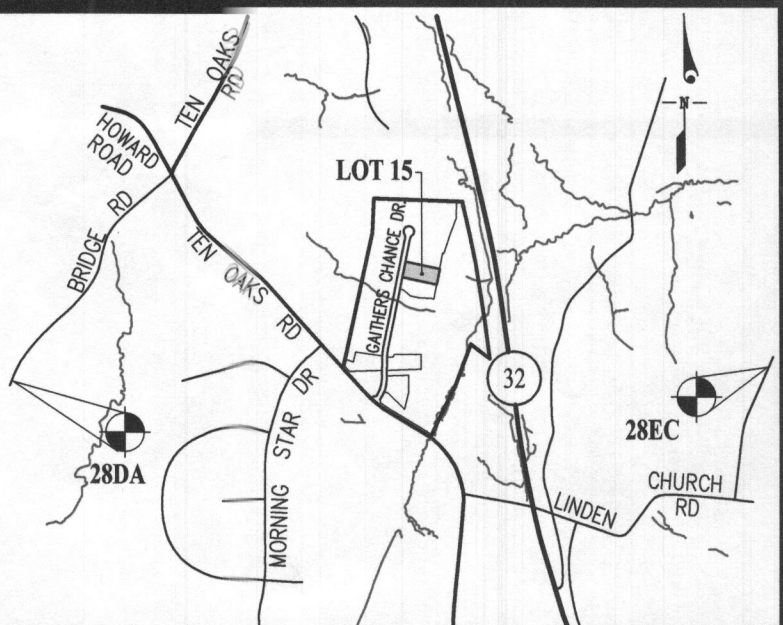
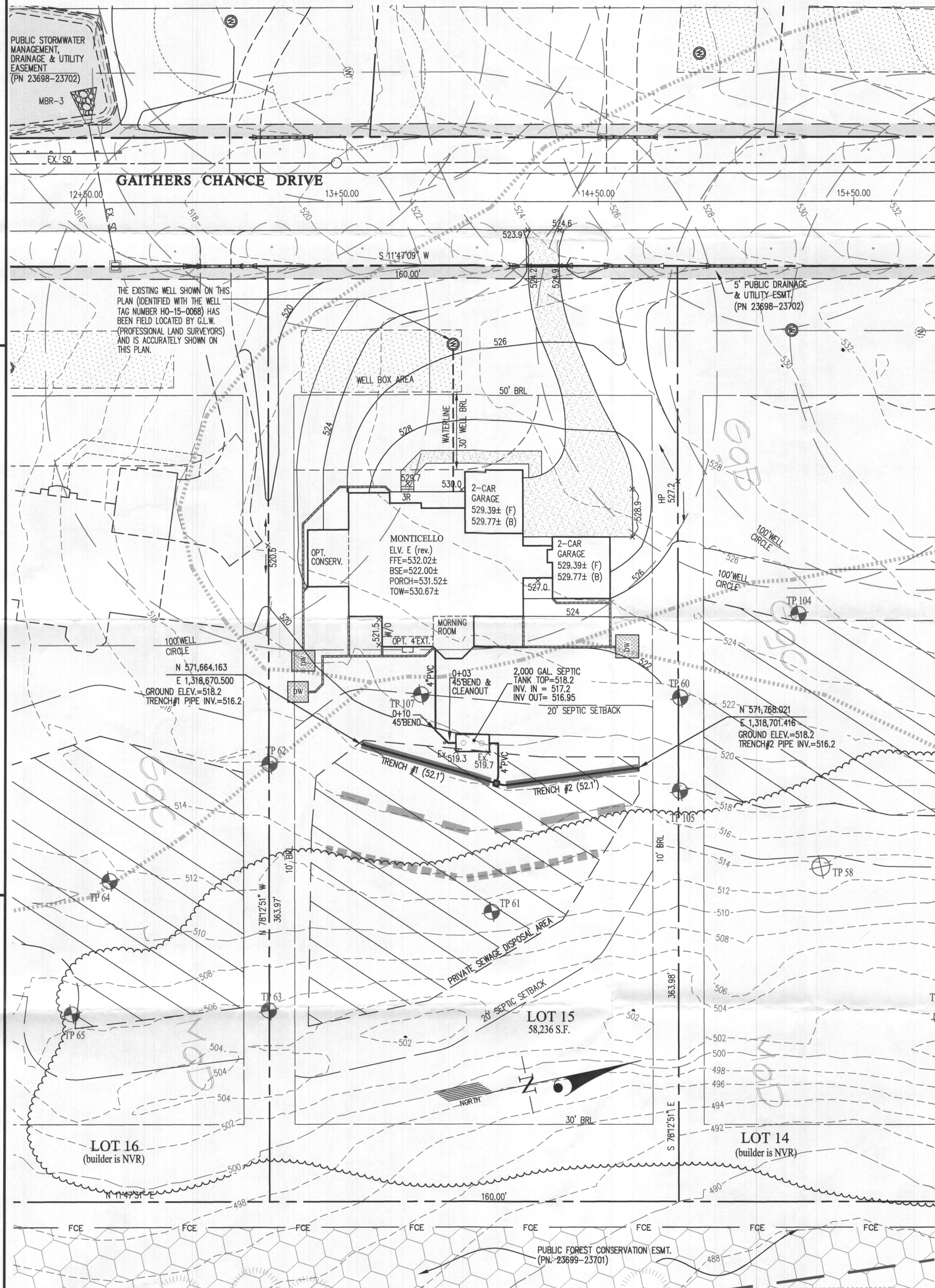
ref per Bert



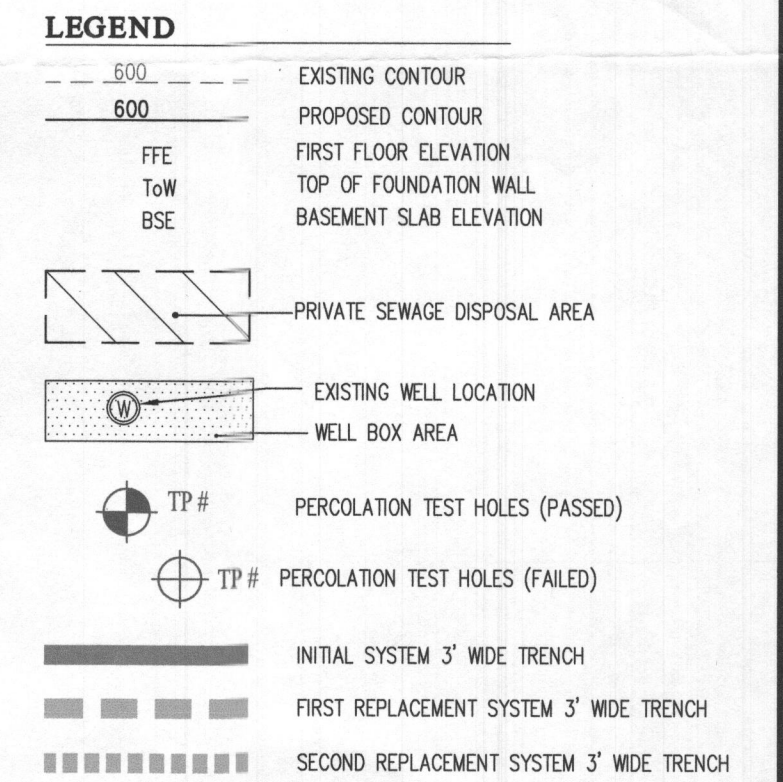
SDA TRENCH SIZE CALCULATIONS			
GAITHER'S CHANCE Lot 15			
System Input Information	Initial System	Replacem't System No.1	Replacem't System No.2
Application Rate	1.2	1.2	1.2
Effective area beginning depth	2	2	2
Effective area maximum bottom depth	6	6	6
Number of Bedrooms	6	6	6
Design flow at 150 gal./day/bedroom	900	900	900
Absorption Trench Calculations			
Drainfield area required (Design flow/application rate)	750	750	750
Effluent pipe depth to invert	2.0	2.0	2.0
Effective sidewall depth "D"	4	4	4
Depth between the effective beginning depth or pipe depth (which ever is deeper) and maximum trench bottom.			
Trench Width "W" (2 or 3 feet)	3	3	3
Sidewall Reduction Percent = $(W+2)/(W+1+2D)$	41.67%	41.67%	41.67%
Linear feet of trench required = (drainfield area x sidewall reduction)/W	104.1666667	104.1666667	104.1666667
Trench Layout Information			
Approximate length available on contour & not exceeding 100-ft	100	100	100
Number of trenches to use	2	2	2
Min. length (linear feet)	52.1	52.1	52.1
Total (linear feet)	104.2	104.2	104.2
Minium Trench Spacing:	11	11	11
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 formula is 2D+W up to a maximum of 18'.			



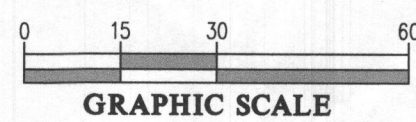
- NOTES:**
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
 - THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
 - THE EXISTING WELL (TAG #15-0089) HAS BEEN FIELD LOCATED BY G.L.W. (PROFESSIONAL LAND SURVEYORS) AND IS ACCURATELY SHOWN ON THIS PLAN.
 - 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.



BENCHMARKS			
28DA	ELEV. 564.382	N = 570,624.996	E = 1,314,434.172
28EC		N = 570,757.386	E = 1,322,274.727



Approved Septic System Plan
Howard County Health Department
2000-gallon, 2-chamber Septic Tank
with gravity drainfield for 6-bedroom SFD
3/16/19
Date

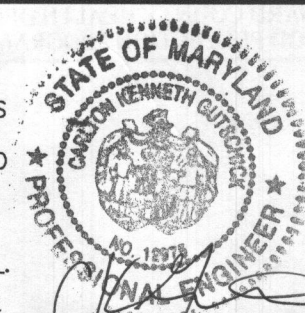


DESIGNED BY:	DATE	REVISION	BY	APP'R.
MBT				
DRAWN BY:				
KLP				
CHECKED BY:				
OKG				

PREPARED FOR:
NVR INC
9720 PATUXENT WOODS DRIVE
COLUMBIA, MARYLAND 21045
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



ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

GAITHER'S CHANCE
LOT 15 (5043 Gaithers Chance Drive)
PLAT No. 23698-23702

ELECTION DISTRICT No. 5

HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. File No.
1"=30'	RR-DEO	13070
DATE	TAX MAP - GRID	SHEET
FEB. 2019	28-8,9,14&15	1 OF 1

S:\Survey Drawings\WALLCHECK\GAITHER'S CHANCE-18065 + 16040\WCK\WCK-15.dwg, 5/3/2019 12:33:05 PM, morganb, 5501_SURVEY (COLOR).pc3, 1:1

GAITHERS CHANCE DRIVE
(50' R/W) (PUBLIC ACCESS STREET)

5' PUBLIC DRAINAGE &
UTILITY EASEMENT

FIELD LOCATED WELL
TAG #HO-15-0068

NAD '83/07
PER PLAT 23701

SEE INSET

HOUSE

PRIVATE
SEWERAGE
EASEMENT

15
58,236 #
OR
1.3369 AC.

PART OF PARCEL A

Wall
check
OK
5-15-19

SURVEYOR'S CERTIFICATE

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

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

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

5/3/2019

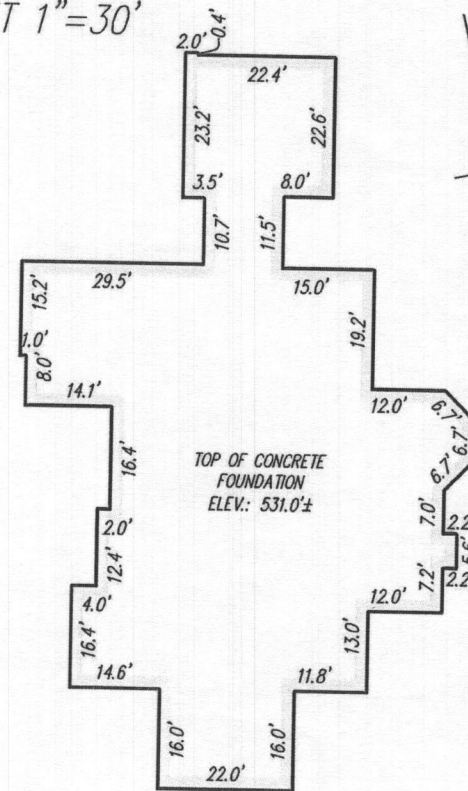
THIS WALLCHECK IS VALID ONLY WITH AN ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE SURVEYOR.

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 24027C0130D, EFFECTIVE
DATE NOVEMBER 6, 2013.

BUILDING SETBACKS (B.R.L.'S) SHOWN HEREON PER PLOT/SEDIMENT CONTROL PLAN.
SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ± 0.1 FOOT.

INSET 1"=30'



WALLCHECK
(SPECIAL PURPOSE SURVEY)

GAITHER'S CHANCE

LOT 15

5043 GAITHERS CHANCE DRIVE

HOWARD COUNTY, MARYLAND

DATE OF LATEST FIELD WORK: 5/2/2019

G.L.W. FILE No. 18-065

REFERENCE: PLAT BOOK: N/A

PLAT No. 23701

SCALE: 1"=40'

GLW
PLANNING | ENGINEERING | SURVEYING

DES.
DRN. MAB
CHK.

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