



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

EST DATE(S) _____ TEST TIME _____

AP 530307-J

AGENCY REVIEW: _____

DATE 2/18/09

DO NOT WRITE ABOVE THIS LINE

HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH UNKNOWN PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE UNKNOWN IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) RONALD REGAN & SCOTT REGAN TRUSTEE

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS 12859 ROUTE 108 HIGHLAND MD 20777
STREET CITY/TOWN STATE ZIP

APPLICANT SAME AS OWNERS

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME REGAN PROPERTY LOT NO. 10

PROPERTY ADDRESS POINT RIDGE DRIVE
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 34 GRID 24 PARCEL(S) 200 PROPOSED LOT SIZE 1 AC.

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT. [Signature]
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

AVP

54

brn l
sblk

brn scl
lmsbk
10% channers

yellow brn
lfsbk scl
few mica

multi color
micaceous
fsl

moist
dense
massive sl

very moist H₂O

56

brn l lmsbk

red brn
lmsbk
~~channer~~
15% quartz
boulders

micaceous
brn fsl
35%
channers
(quartz)

↓
increase
massive

boulders @
fsl ~10'

42

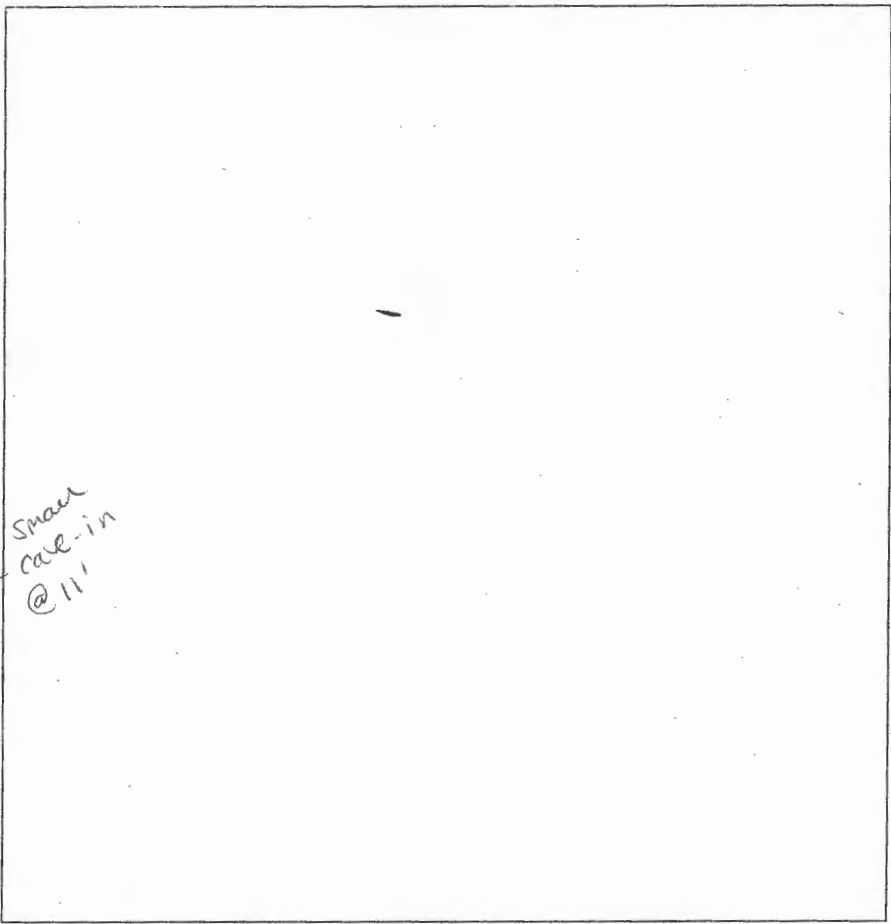
brn l
red
brn scl
lfsbk
few mica

yellow /
red
brn scl
many mica

quartz
channers
30%

whitish brn

fsl micaceous
saponite



Small
cave-in
@ 11'

41

brn l

brn scl

brn scl
lfsbk

flaggy
boulders
@ ~2.5-3'

fsl &
uphill side
50% rx

v fsl
~65% rx

39

brn l sblk

red brn
scl
2msbk

whitish
brn fsl
& brn
scl
saponite
few mica

yellow brn
fsl saponite
(decomposing
quartz?)

36

brn l sblk

brn scl
2msbk

brn fsl
few mica
rx pocket

15% blocky
channers
yellow brn
fsl
& few flaggy
quartz boulders

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5-18-09	54	5' / 13'	10:20	too slow	low	-reshel f-	
	56	6' / 12'	10:43	10:40	10:51	5	P
	54	6.5' / 13'	10:40	10:50	10:59	9	P
	42	7' / 13'	11:12	11:16	11:21	5	P
	41	11.5'	visual		rx		F
	39	5' 10" / 13'	11:41	11:42	11:44	2	P
	36	6' / 12'	12:01	12:07	12:11	4	P

REMARKS _____

SANITARIAN HS / BB / RB BACKHOE _____ OTHERS _____

TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____

3.5

6.5

8.5-9'

13'

1'

5'

8'

bottom @ 10'

15'

4'

11'

5'

1.5'

2.5'

3.5'

7'

with thin coatings @ 12'

4'

@ 5.5'

6'

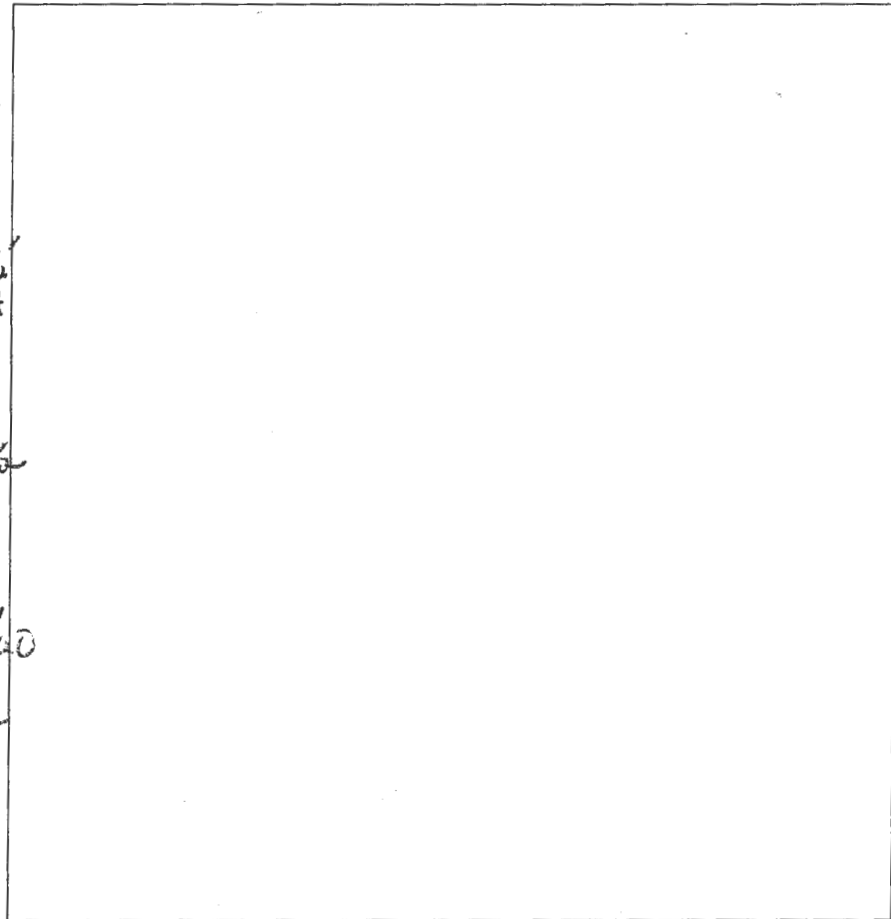
Rel gamp-19

AVP
 P-55
 SBK Gray 0.5
 Rcl Brn
 GL
 Small Bldgs 5/2
 Rock Samp
 Bldgs Pocket
 Sh Red
 Brn
 mic
 Had seeping
 in 30s
 Red Brn
 SL (WET)
 mic
 14' 1/2

P-10
 SBK Gray 0.5
 SCL
 Rd Brn
 ↓
 5

SL
 Rd Brn
 ↓
 granulation
 30/20
 Rock Refusal
 7'

P-40
 SBK Gray 1.8
 Brn. Gray
 much mic
 FSL
 ↓
 Large Bldgs 7'
 FSL
 Rd Brn
 Gry
 ↓
 14'



SBK med
 0.5
 SCL Rd Brn 2
 traces of Rck
 Pocket of
 Rck
 ↑
 Sh
 ↓
 Small Rck 3
 P-17
 SBK Gry -0.5
 SCL Rd Brn
 Sh Rd Brn
 more than
 50% Rck 7 1/2
 Rck
 Large Bldgs
 Refusal
 @
 8' - 7.9
 ↓
 8'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5-18	P55	5.5 14	10:27	10:47	10:50	3m	P
5-18	P69	6.1 14	10:41	10:51	11:00	3.1	P
5-18	P40	6.5 14	11:35	11:37	11:40	3m	P
5-18	P26	6.5 14	12:35	12:37	12:44	5m	P
5-18	P-17	7.5	Refusal	@	7.9		F
5-18	P69	6' 13.5	2:49	2:51	2:55	4m	P
5-18	P-10						

P-26
 SBK 2m
 Gry, Brn = 1'
 Brn Sh
 Shist = 3'
 ↓
 Large Bldgs
 Packet
 Brn, Gry
 SL
 ↓
 100% Large Bldgs
 - 14

REMARKS _____
 SANITARIAN _____ BACKHOE _____ OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

AP

59

0.2' dk brn loam
 0.9' brn loam
 yel-red sil
 4.5' to yel-red sil
 red-yel heavy
 7' ls m
 pale yellow
 yel-red sil
 pale brn ls
 micaceous
 white, grey, black
 yel-red & pale yellow
 micaceous, moist

water seeps

60

0.2' dk brn loam
 brn heavy loam
 0.7' yel-red grs
 yellow ls
 regular boundary - 3'
 dk brn, white
 & pale yel ls
 m, sordite
 9' dk brn grey
 10' 15 IS
 R

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
6/10/09	59	4' 6" / 9.5'	1:31	1:36	1:47	11	P
6/10/09	60	5' 4" / 10'	0	1	3.2	2.2	P
6/10/09	58	6' / 12'	0	0.9	3.1	2.2	P

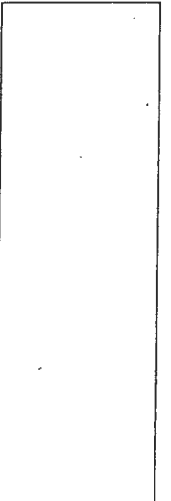
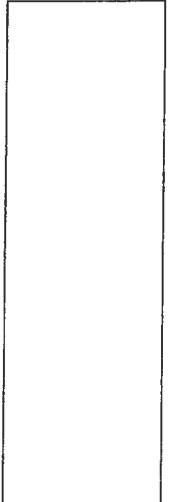
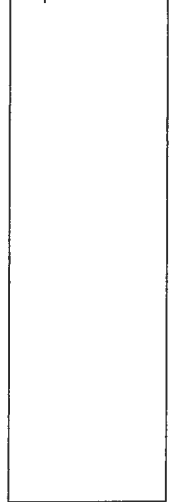
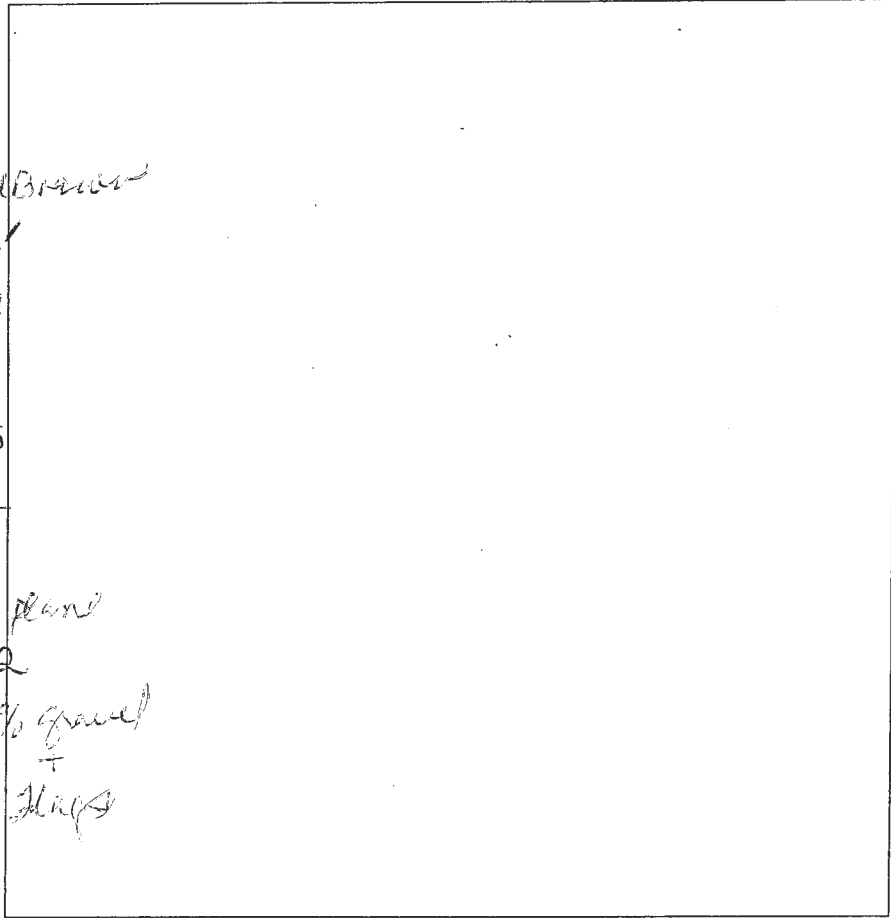
REMARKS _____
 SANITARIAN RB BACKHOE Bruce OTHERS Andy
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

A/P

P-58

Grey Brown
SBK mat -1'
Very yellow
Lg Boulders -2'
63% Sap
Sk Black
yel heavy
Brown
Sk
Red Brown -5
Sk gravelly
much mica
Saprophytic
in vertical plane
yel white
25 Brown -12

30% gravel
+
Flags



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
10-10-09	58	6'12"	0	0.9	31	2.2	F

REMARKS _____
 SANITARIAN _____ BACKHOE _____ OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

AP

57

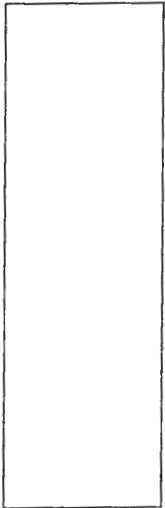
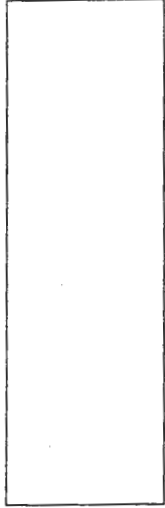
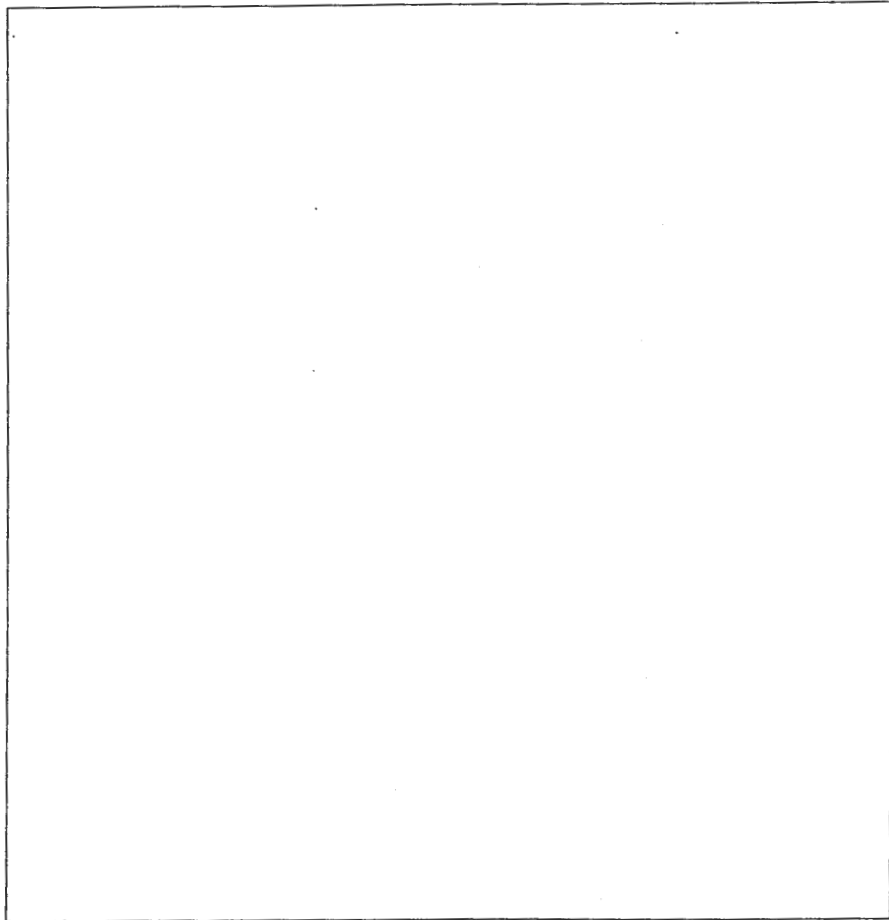
brn l

red brn
sol
lcsbk

brn
sl

↓
brn fl
superficial
20" diameter
brn
ch fse

13'



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
6-10-09	57	5.8' 13'	1:58	2:05	2:17	12	P

REMARKS _____

SANITARIAN _____ BACKHOE _____ OTHERS _____

TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

BENCHMARK



ENGINEERING, INC.

8480 Baltimore National Pike • Suite 315 • Ellicott City, Maryland 21043
 410-465-6105 410-465-6644 (Fax)

LETTER OF TRANSMITTAL

TO: HOWARD COUNTY
HEALTH DEPT.

DATE <u>6/1/18</u>	PROJECT No. <u>Z171</u>
ATTENTION <u>DANA BERNARD</u>	
RE: <u>REGAN PROPERTY LOT 10</u>	
<u>REVISED PERCOLATION</u>	
<u>CERTIFICATION PLAN</u>	

WE ARE SENDING YOU Attached Under separate cover via _____ the following items

Photocopies Prints Originals Samples
 Specifications Invoices Change Order Other _____

COPIES of	No. of SHEETS	DESCRIPTION
<u>3</u>	<u>1</u>	<u>REGAN PROPERTY LOT 10 REVISED PERC. CERT.</u>

THESE ARE TRANSMITTED as checked below

For Comment For your use For Approval
 For Review As requested Other _____

REMARKS:

COPY TO: _____

RECEIVED BY: V. Delmay

SIGNED: [Signature]

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

Bernard, Dana

From: Bernard, Dana
Sent: Friday, June 01, 2018 11:36 AM
To: John Carney
Subject: 12333 Point Ridge Drive

Good Morning John,

We need a few corrections on your revised percolation certification plan.

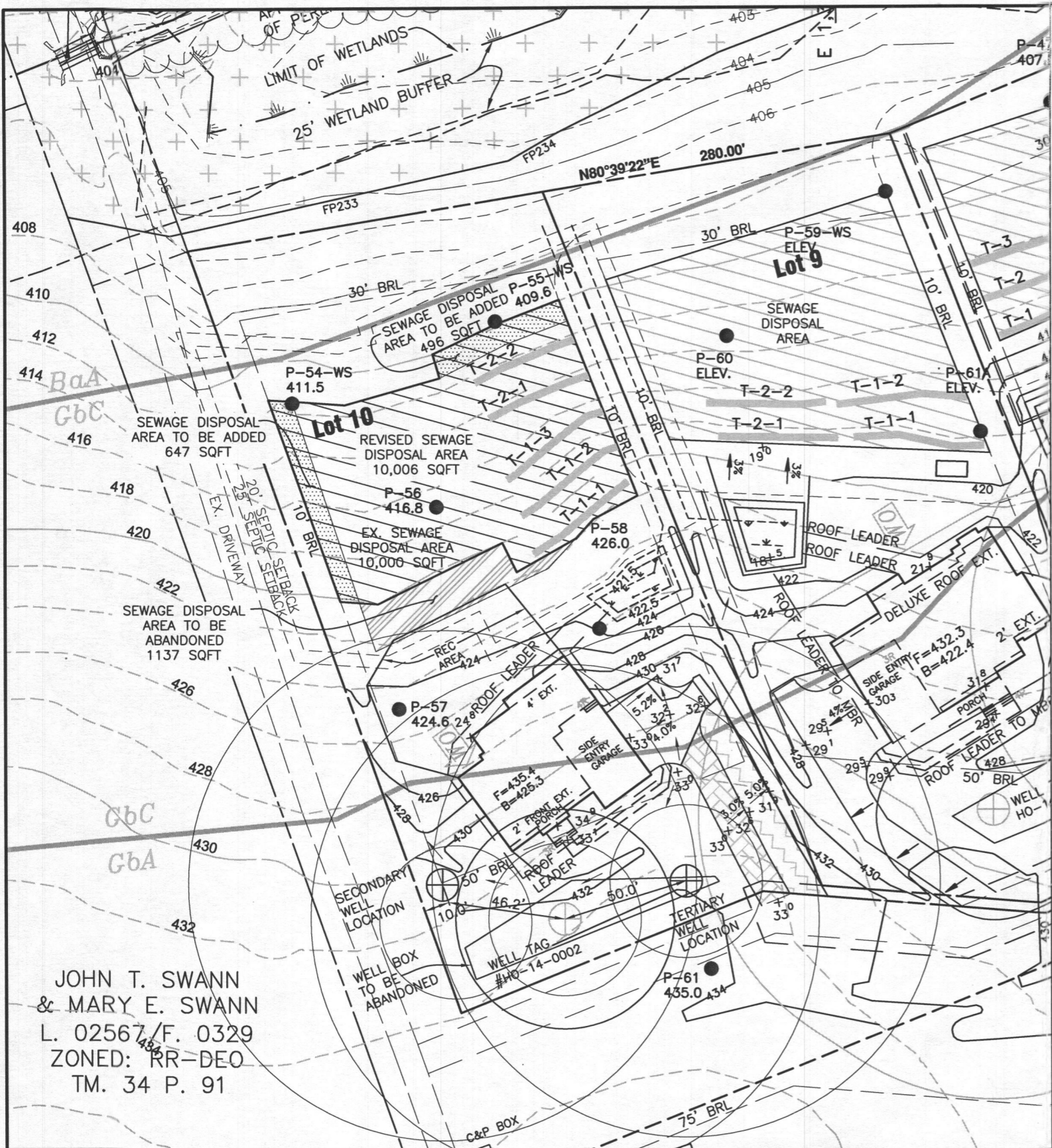
1. The septic tank shown is less than 25 feet away from the rain garden.
2. You don't need to show the tank on the PC , however it must be shown on the OSDS.

Thank you & Have a*")

,,*,*) ,,*)

(, (, * Wonderful Day !

Dana Bernard, R.E.H.S./L.E.H.S.
Environmental Specialist II
Bureau of Environmental Health
Well and Septic Program
Phone (410) 313-2775
E-mail: DBernard@howardcountymd.gov



JOHN T. SWANN
& MARY E. SWANN
L. 02567/F. 0329
ZONED: RR-DEO
TM. 34 P. 91

PLAN VIEW
1" = 50'

SOILS LEGEND		
MAP SYMBOL	SOIL GROUP	SOIL TYPE
BaA*	D	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES
GbA	B	GLADSTONE LOAM, 0 TO 3 PERCENT SLOPES
GbB	B	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES
GbC	B	GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES
GmB*	C	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES
MaD	B	MANOR LOAM, 15 TO 25 PERCENT SLOPES

FROM NATURAL RESOURCES CONSERVATION SERVICES WEB SOIL SURVEY 2.0
* ERODIBLE SOILS

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

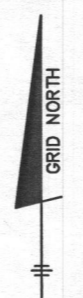
PLAN PREPARER: JOHN M. CARNEY
FOR BENCHMARK ENGINEERING, INC.

APPROVED:
APPROVED FOR PRIVATE WATER SYSTEM AND PRIVATE SEWER SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER [Signature] DATE 6/15/18

LEGEND

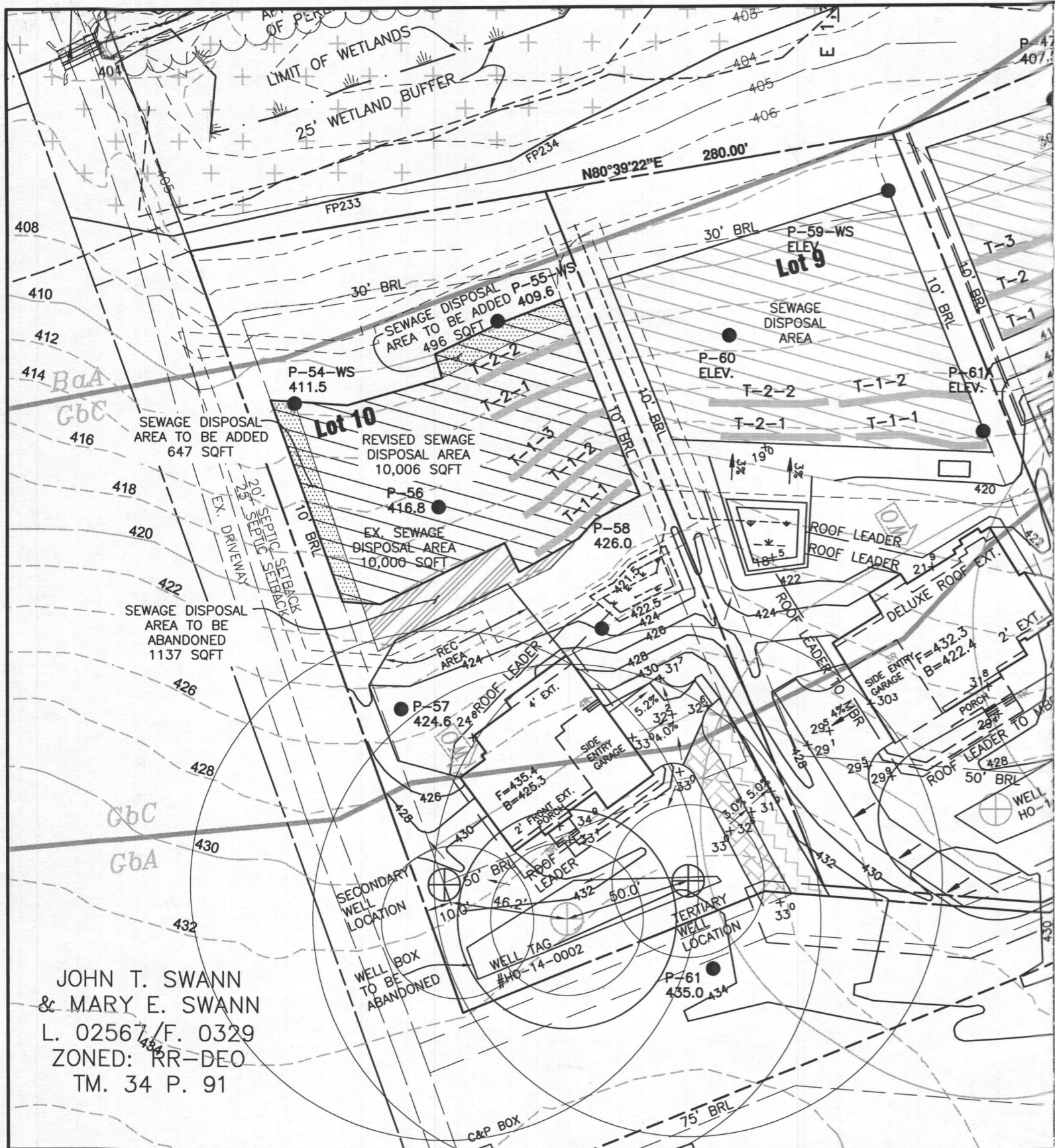
- SOILS CLASSIFICATION *ChB2*
- SOILS DELINEATION
- EXISTING CONTOURS
- PROPOSED CONTOURS
- LIMIT OF WETLANDS
- 25' WETLANDS BUFFER
- CENTERLINE OF STREAM
- STREAM BUFFER
- PROPOSED STRUCTURE
- EXISTING WELL
- PROPOSED WELL
- EXISTING SEWAGE DISPOSAL AREA
- REVISED SEWAGE DISPOSAL AREA
- REVISED SEWAGE DISPOSAL AREA (TO BE ADDED)
- EXISTING SEWAGE DISPOSAL AREA (TO BE ABANDONED)
- EXISTING WELL BOX
- PASSED PERCOLATION TEST



PLAN NOTES:

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR REGAN PROPERTY, PLAT Nos. 23063-23074. REFER TO THE PLATS FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS AND CONDITIONS.
2. SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION DISTRICT UNDER A GRADING PLAN AND MODIFIED FOR THIS SPECIFIC HOUSE.
3. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS AND TOPOGRAPHIC INFORMATION PROVIDED BY BENCHMARK ENGINEERING, INC., ON OR ABOUT JANUARY, 2012.
4. THE EXISTING WELL SHOWN ON THIS PLAN, HO-14-0012, HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC., AND IS ACCURATELY SHOWN.
5. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
6. ANY CHANGES TO A PRIVATE SEWAGE EASEMENT OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
7. STORMWATER MANAGEMENT FOR THIS LOT WAS DESIGNED TO BE PROVIDED BY MICRO-BIORETENTION FACILITY (MDE M-6) AND DISCONNECTION OF NON-ROOFTOP RUNOFF.
8. NO DRIVEWAY CULVERT IS REQUIRED FOR THIS LOT.
9. MICRO-BIORETENTION FACILITIES SHOULD HAVE EITHER 4" OR 6" ROOF LEADERS DEPENDING ON THE SIZE OF THE ROOFTOP AREA.
10. THE PURPOSE OF THIS PERCOLATION CERTIFICATION PLAN IS TO REVISE THE PRIVATE SEWAGE DISPOSAL AREA ON LOT 10 DUE TO THE LOCATION AND SIZE OF THE MICRO-BIORETENTION FACILITY AND RECREATION SPACE, REMOVE THE 1500 SF WELL BOX, AND SHOW TWO FUTURE REPLACEMENT WELL LOCATIONS.
11. THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 S.F. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE REQUIRED.
12. THE LOT SHOWN HEREIN COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.
13. INITIAL SYSTEM IS TRENCHES T-1-1, T-1-2, AND T-1-3. FIRST REPAIR ARE TRENCHES T-2-1, T-2-2.

OWNER/BUILDER:	BENCHMARK ENGINEERS LAND SURVEYORS PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE SUITE 315 ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 (F) 410-465-6644 WWW.BEI-CVLENGINEERING.COM	
PROJECT:	REGAN PROPERTY LOT 10	
LOCATION:	12333 POINT RIDGE DRIVE HIGHLAND, MD 20777 TAX MAP No. 34 - BLOCK No. 24 - PARCEL No. 200 5TH ELECTION DISTRICT, TAX ID NUMBER: 05 597443	
TITLE:	REVISED PERCOLATION CERTIFICATION PLAN	
HOUSE TYPE:	ASHBROOKE - ELEVATION A	
DATE:	JUNE, 2018	PROJECT NO. 2171
SCALE:	AS SHOWN	DRAWING 1 OF 1



LEGEND

- SOILS CLASSIFICATION *ChB2*
- SOILS DELINEATION
- EXISTING CONTOURS
- PROPOSED CONTOURS
- LIMIT OF WETLANDS
- 25' WETLANDS BUFFER
- CENTERLINE OF STREAM
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OWNER/BUILDER: MB HIGHLAND RESERVE, LLC 1686 EAST GUDE DRIVE ROCKVILLE, MD 20850 301-762-9511	BENCHMARK ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE SUITE 315 ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 (F) 410-465-6644 WWW.BEI-CVLENGINEERING.COM
---	--

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

John M. Carney 6/1/19

PLAN PREPARER: JOHN M. CARNEY
FOR BENCHMARK ENGINEERING, INC.

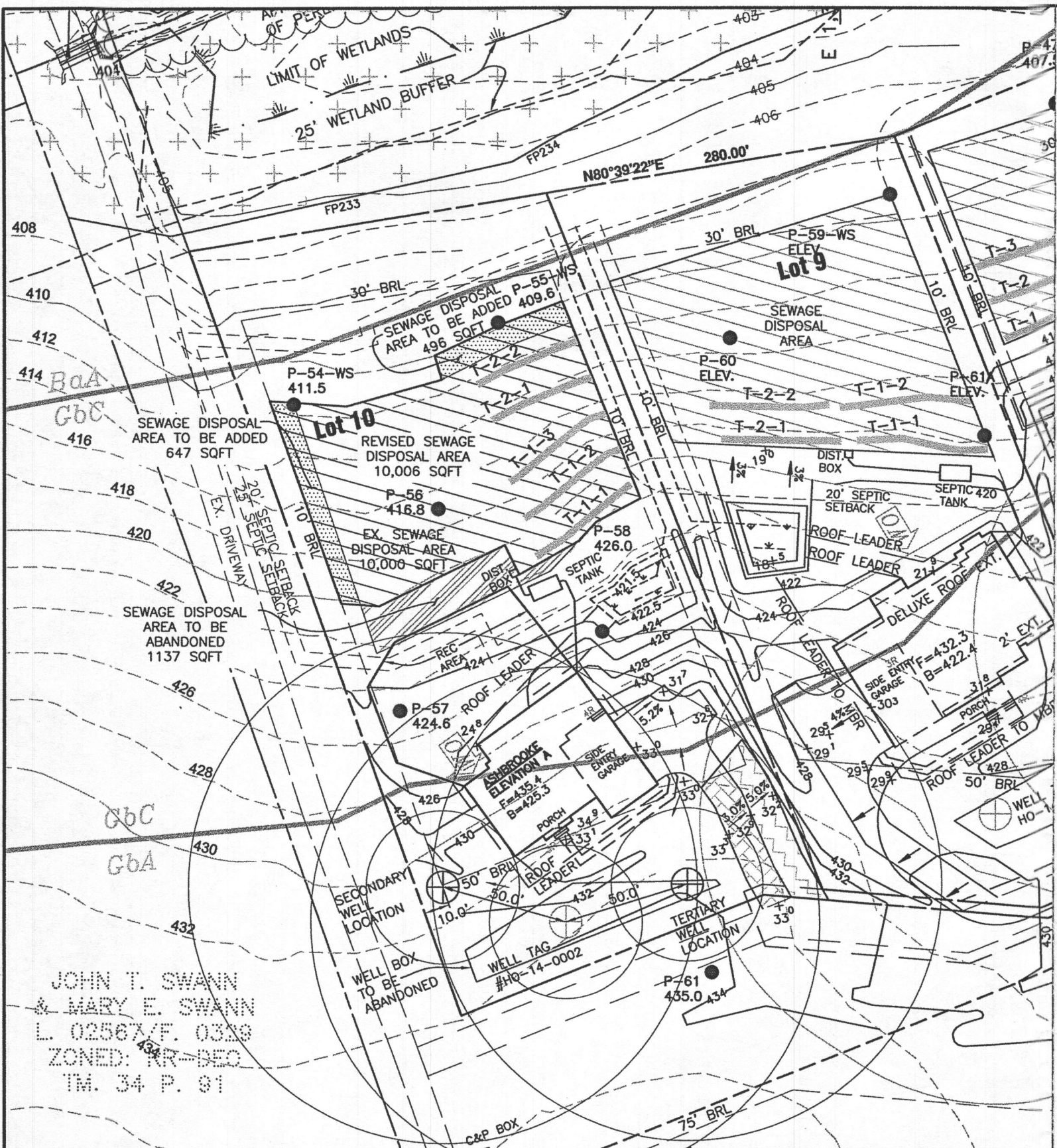
APPROVED:
APPROVED FOR PRIVATE WATER SYSTEM AND PRIVATE SEWER SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

Wilton for Mauro Rossman 6/15/19
COUNTY HEALTH OFFICER *W* DATE

PROJECT: REGAN PROPERTY LOT 10	
LOCATION: 12333 POINT RIDGE DRIVE HIGHLAND, MD 20777 TAX MAP No. 34 - BLOCK No. 24 - PARCEL No. 200 5TH ELECTION DISTRICT, TAX ID NUMBER: 05 597443	
TITLE: REVISED PERCOLATION CERTIFICATION PLAN	
HOUSE TYPE: ASHBROOKE - ELEVATION A	
DATE: JUNE, 2018	PROJECT NO. 2171
SCALE: AS SHOWN	DRAWING 1 OF 1

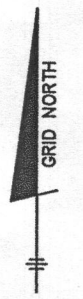
SOILS LEGEND		
MAP SYMBOL	SOIL GROUP	SOIL TYPE
BaA*	D	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES
GbA	B	GLADSTONE LOAM, 0 TO 3 PERCENT SLOPES
GbB	B	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES
GbC	B	GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES
GmB*	C	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES
MaD	B	MANOR LOAM, 15 TO 25 PERCENT SLOPES

FROM NATURAL RESOURCES CONSERVATION SERVICES WEB SOIL SURVEY 2.0
* ERODIBLE SOILS



LEGEND

- SOILS CLASSIFICATION *ChB2*
- SOILS DELINEATION
- EXISTING CONTOURS
- PROPOSED CONTOURS
- LIMIT OF WETLANDS
- 25' WETLANDS BUFFER
- CENTERLINE OF STREAM
- STREAM BUFFER
- PROPOSED STRUCTURE
- EXISTING WELL
- PROPOSED WELL
- EXISTING SEWAGE DISPOSAL AREA
- REVISED SEWAGE DISPOSAL AREA
- REVISED SEWAGE DISPOSAL AREA (TO BE ADDED)
- EXISTING SEWAGE DISPOSAL AREA (TO BE ABANDONED)
- EXISTING WELL BOX
- PASSED PERCOLATION TEST
- FAILED PERCOLATION TEST



PLAN NOTES:

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR REGAN PROPERTY, PLAT Nos. 23063-23074. REFER TO THE PLATS FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS AND CONDITIONS.
2. SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION DISTRICT UNDER A GRADING PLAN AND MODIFIED FOR THIS SPECIFIC HOUSE.
3. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS AND TOPOGRAPHIC INFORMATION PROVIDED BY BENCHMARK ENGINEERING, INC., ON OR ABOUT JANUARY, 2012.
4. THE EXISTING WELL SHOWN ON THIS PLAN, HO-14-0012, HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC., AND IS ACCURATELY SHOWN.
5. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
6. ANY CHANGES TO A PRIVATE SEWAGE EASEMENT OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
7. STORMWATER MANAGEMENT FOR THIS LOT WAS DESIGNED TO BE PROVIDED BY MICRO-BIORETENTION FACILITY (MDE M-6) AND DISCONNECTION OF NON-ROOFTOP RUNOFF.
8. NO DRIVEWAY CULVERT IS REQUIRED FOR THIS LOT.
9. MICRO-BIORETENTION FACILITIES SHOULD HAVE EITHER 4" OR 6" ROOF LEADERS DEPENDING ON THE SIZE OF THE ROOFTOP AREA.
10. THE PURPOSE OF THIS PERCOLATION CERTIFICATION PLAN IS TO REVISE THE PRIVATE SEWAGE DISPOSAL AREA ON LOT 10 DUE TO THE LOCATION AND SIZE OF THE MICRO-BIORETENTION FACILITY AND RECREATION SPACE, REMOVE THE 1500 SF WELL BOX, AND SHOW TWO FUTURE REPLACEMENT WELL LOCATIONS.
11. THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 S.F. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE REQUIRED.
12. THE LOT SHOWN HEREIN COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.
13. INITIAL SYSTEM IS TRENCHES T-1-1, T-1-2, AND T-1-3. FIRST REPAIR ARE TRENCHES T-2-1, T-2-2.

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

John M. Carney
PLAN PREPARER: JOHN M. CARNEY
FOR BENCHMARK ENGINEERING, INC.

APPROVED:
APPROVED FOR PRIVATE WATER SYSTEM AND PRIVATE SEWER SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

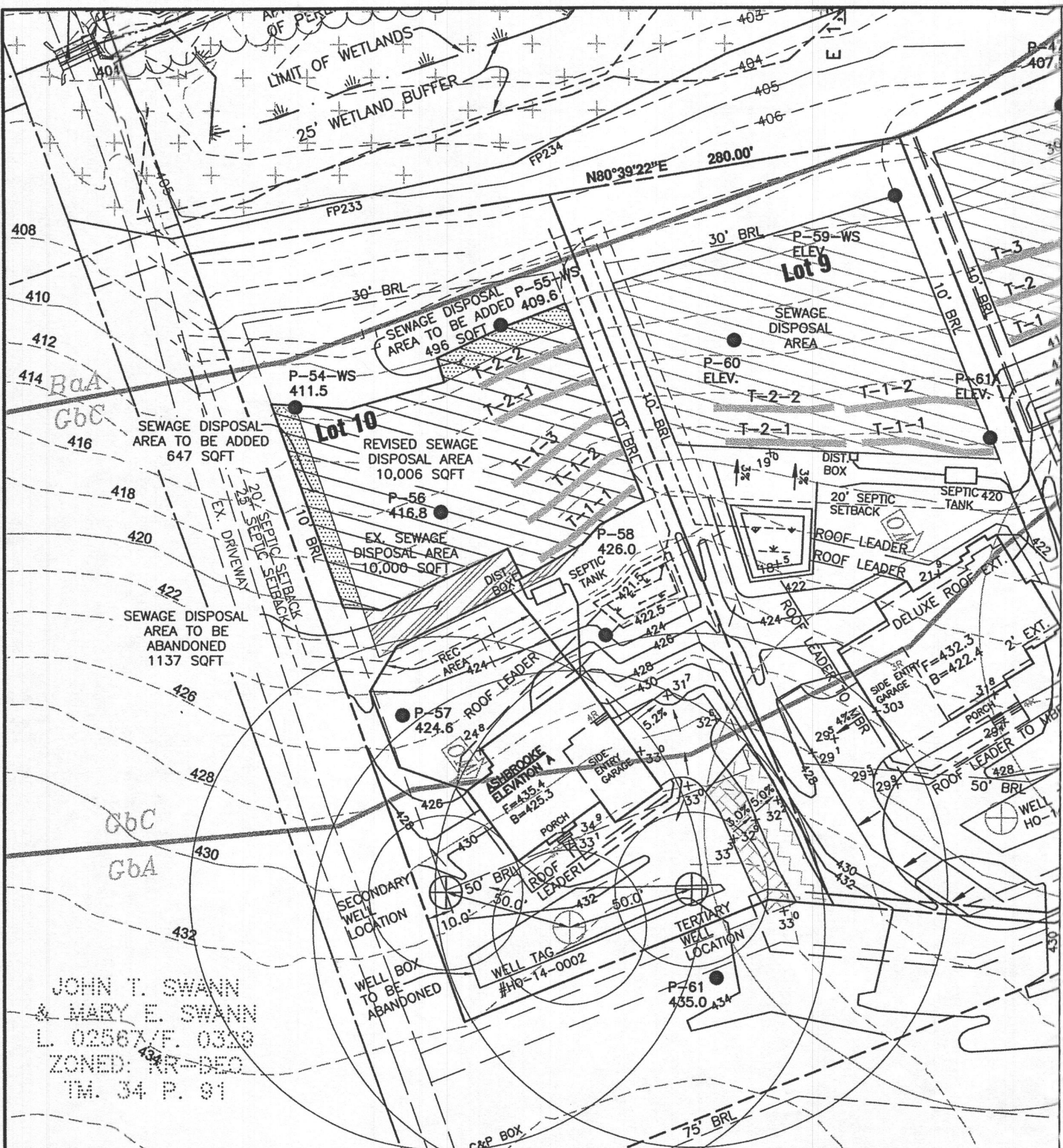
COUNTY HEALTH OFFICER *[Signature]* DATE

OWNER/BUILDER:	BENCHMARK ENGINEERS LAND SURVEYORS PLANNERS	
MB HIGHLAND RESERVE, LLC 1686 EAST GUDE DRIVE ROCKVILLE, MD 20850 301-762-9511	ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE & SUITE 315 ELLCOTT CITY, MARYLAND 21043 (P) 410-465-6105 (F) 410-465-6644 WWW.BEI-CIVILENGINEERING.COM	
PROJECT:	REGAN PROPERTY LOT 10	
LOCATION:	12333 POINT RIDGE DRIVE HIGHLAND, MD 20777 TAX MAP No. 34 - BLOCK No. 24 - PARCEL No. 200 5TH ELECTION DISTRICT, TAX ID NUMBER: 05 597443	
TITLE:	REVISED PERCOLATION CERTIFICATION PLAN	
HOUSE TYPE:	ASHBROOKE - ELEVATION A	
DATE:	MAY, 2018	PROJECT NO. 2171
SCALE:	AS SHOWN	DRAWING 1 OF 1

SOILS LEGEND

MAP SYMBOL	SOIL GROUP	SOIL TYPE
BaA*	D	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES
GbA	B	GLADSTONE LOAM, 0 TO 3 PERCENT SLOPES
GbB	B	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES
GbC	B	GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES
GmB*	C	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES
MaD	B	MANOR LOAM, 15 TO 25 PERCENT SLOPES

FROM NATURAL RESOURCES CONSERVATION SERVICES WEB SOIL SURVEY 2.0
* ERODIBLE SOILS



LEGEND

- SOILS CLASSIFICATION *ChB2*
- SOILS DELINEATION
- EXISTING CONTOURS
- PROPOSED CONTOURS
- LIMIT OF WETLANDS
- 25' WETLANDS BUFFER
- CENTERLINE OF STREAM
- STREAM BUFFER
- PROPOSED STRUCTURE
- EXISTING WELL
- PROPOSED WELL
- EXISTING SEWAGE DISPOSAL AREA
- REVISED SEWAGE DISPOSAL AREA
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- EXISTING WELL BOX
- PASSED PERCOLATION TEST
- FAILED PERCOLATION TEST

PLAN NOTES:

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7. STORMWATER MANAGEMENT FOR THIS LOT WAS DESIGNED TO BE PROVIDED BY MICRO-BIORETENTION FACILITY (MDE M-6) AND DISCONNECTION OF NON-ROOFTOP RUNOFF.
8. NO DRIVEWAY CULVERT IS REQUIRED FOR THIS LOT.
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JOHN T. SWANN
& MARY E. SWANN
L. 02567/F. 0329
ZONED: RR-BED
TM. 34 P. 81

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John M. Carney
PLAN PREPARER: JOHN M. CARNEY
FOR BENCHMARK ENGINEERING, INC.

APPROVED:
APPROVED FOR PRIVATE WATER SYSTEM AND PRIVATE SEWER SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER _____ DATE _____

PLAN VIEW
1" = 50'

SOILS LEGEND		
MAP SYMBOL	SOIL GROUP	SOIL TYPE
BaA*	D	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES
GbA	B	GLADSTONE LOAM, 0 TO 3 PERCENT SLOPES
GbB	B	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES
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FROM NATURAL RESOURCES CONSERVATION SERVICES WEB SOIL SURVEY 2.0
* ERODIBLE SOILS

OWNER/BUILDER:	BENCHMARK ENGINEERS LAND SURVEYORS PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE SUITE 315 ELLCOTT CITY, MARYLAND 21043 (P) 410-465-6105 (F) 410-465-6644 WWW.BEI-CVLENGINEERING.COM	
PROJECT:	REGAN PROPERTY LOT 10	
LOCATION:	12333 POINT RIDGE DRIVE HIGHLAND, MD 20777 TAX MAP No. 34 - BLOCK No. 24 - PARCEL No. 200 5TH ELECTION DISTRICT, TAX ID NUMBER: 05 597443	
TITLE:	REVISED PERCOLATION CERTIFICATION PLAN	
HOUSE TYPE:	ASHBROOKE - ELEVATION A	
DATE:	MAY, 2018	PROJECT NO. 2171
SCALE:	AS SHOWN	DRAWING 1 OF 1



PLAN VIEW
1" = 50'

SOILS LEGEND		
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ZONED: KR-DEO
TM. 34 P. 91

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John M. Carney 5/10/18
PLAN PREPARER: JOHN M. CARNEY
FOR BENCHMARK ENGINEERING, INC.

APPROVED:
APPROVED FOR PRIVATE WATER SYSTEM AND PRIVATE SEWER SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER _____ DATE _____

OWNER/BUILDER:	BENCHMARK ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE & SUITE 315 ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 ▲ (F) 410-465-6644 WWW.BEI-CVLENGINEERING.COM	
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HOUSE TYPE:	ASHBROOKE - ELEVATION A	
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SCALE:	AS SHOWN	DRAWING <u>1</u> OF <u>1</u>