

# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_ @P 535,70  
 AGENCY REVIEW: \_\_\_\_\_ DATE 4-22-11

DO NOT WRITE ABOVE THIS LINE

I 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) JOHN P MCDANIEL & ELLEN G MCDANIEL

DAYTIME PHONE \_\_\_\_\_ CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 13032 HIGHLAND ROAD HIGHLAND MD 20777  
 STREET CITY/TOWN STATE ZIP

APPLICANT ROBERT H. VOGEL ENGINEERING, INC

DAYTIME PHONE 410-401-7000 CELL \_\_\_\_\_ FAX 410-401-0910

MAILING ADDRESS 8407 MAIN STREET FELICITY CITY MD 21043  
 STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION KOANDAH GARDENS  
 SUBDIVISION/PROPERTY NAME MCDANIEL PROPERTY LOT NO. 08

PROPERTY ADDRESS 13032 HIGHLAND ROAD HIGHLAND MD 20777  
 STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 34 GRID 22 PARCEL(S) 117&78 PROPOSED LOT SIZE 40 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

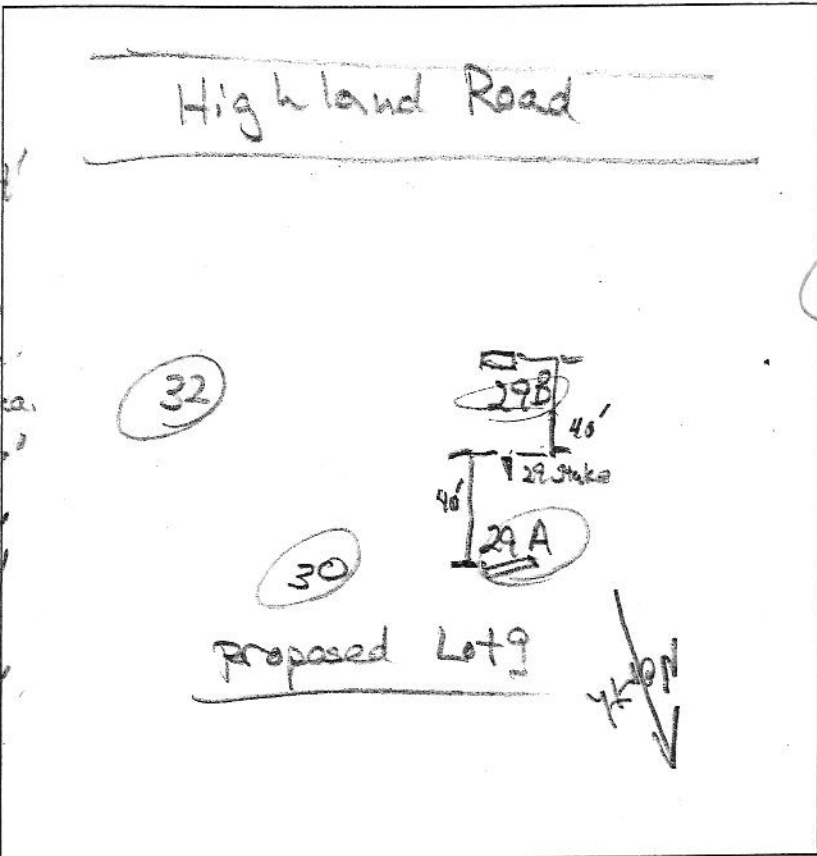
HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM  
 7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648  
 TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

AVP

(30)

dk grey-brn sl 2 f/sbk  
 brn loam 3 f/sbk  
 yel-red sl f/sbk  
 yel-red fsl common mica  
 grey-brn sl  
 pale yellow sl  
 C3d grey  
 C2d yel-red  
 water

slight sticky



(29B)

dk grey-brn sl 2 f/sbk to 3 f/sbk  
 0.8'  
 brn sl 3 f/sbk  
 0.9'  
 yel-red fsl common mica dense  
 4'  
 grey-brn sl micaceous  
 8'  
 H grey-brn ls w/ yel-red strata  
 12.5' many mica

(29A)

0.2' dk brn sl  
 1' brn loam 3 f/sbk  
 1.5' yel-red sl 3 f/sbk  
 yel-red sl  
 dense common mica  
 2.7' brn sl micaceous  
 6' H grey-brn & yel-red ls, many mica  
 11.2' pale yellow & grey w/ yel-red strata  
 11.8' water

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/12/11	30	6' / 11'	10:39	10:54		pulled res shelf	
5/12/11	30	6.8' / 11'	11:01	11:05	11:13	8	P
5/12/11	29B	4.5' / 12.5'	0	1.5	3.6	2.1	P
5/12/11	29A	3.7' / 11.2'	11:40	11:43	11:48	5	P

REMARKS \_\_\_\_\_

SANITARIAN RB BACKHOE Chuck Zeff OTHERS Jeremy Rutter

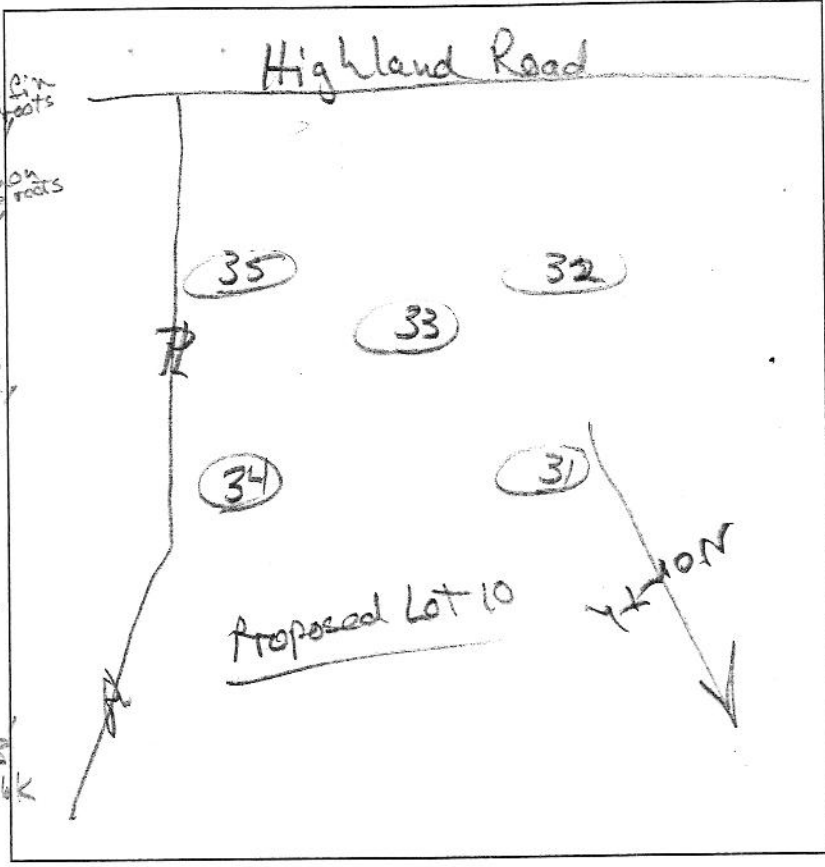
TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_

TRENCH WIDTH 2' INLET DEPTH 3' MAX. BOT DEPTH 7'-8' EFFECTIVE SW 11.8'

AVP

33

34



dk brn sl  
2' vs bk 0.3  
brn sl  
1' vs bk  
micaceous  
variegated  
sl saprolites  
brn sl, brn  
black & yel-red  
4.0  
loamy sand  
micaceous  
micaceous  
10.5  
cave-in  
water  
variegated  
11.5  
pale yel. grey  
black

dk brn sl  
2' vs bk  
brn loam  
3' vs bk  
yel-red  
few mica  
1' vs bk  
yel-red  
H. brn sl  
micaceous  
saprolite  
4.5  
brn w/ yellow  
sl & strata  
micaceous sl  
few strata  
12.5

32  
dk brn sl  
brn loam  
3' vs bk  
yel-red  
sl, om  
common mica  
few gravel  
4.3  
brn sl  
micaceous  
few yellow  
strata  
10.0  
brn ls  
few white lenses  
12.5  
H. grey-brn  
w/ pale yellow  
& yel-red  
13.8

35  
dk brn sl  
2' vs bk  
brn loam  
3' vs bk  
brn sl, heavy  
micaceous  
2.5  
brn-yel sl  
many mica  
6'  
brn sl  
micaceous  
12.5  
H. grey-brn sl  
w/ yellow & white  
12.8

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/12/11	34	4.2 / 10.5	0	2	5.3	3.3	P
5/12/11	33	4.2 / 12.5	0	1.3	3.7	2.4	P
5/12/11	35	4.6 / 12.5	0	2.7	7.6	4.9	P
5/12/11	32	12.5	Visual	side wall	OK 4.5'-8'		P
5/12/11	31		Water at 9'		cave-in at 6'		F

REMARKS \_\_\_\_\_  
 SANITARIAN RB BACKHOE Chuck Zepp OTHERS Jeremy Rutter  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE S/W \_\_\_\_\_

Highland Road

Proposed Lot 8

Proposed Lot 7

29B

26

23

27

29A

24

41

40

broad swale

EXIST. D/W

26

dk brns

0.3

brn sl  
3msbk

1'

brn fs  
many fine mica  
dense

3'

brn fs  
micaceous  
8" m

4.4'

brn sl  
micaceous

8'

lt grey-brn  
w/ pale yellow  
sl lenses

12.3'

24

0.2'

brn sl

0.8'

brn loam  
3msbk

0.8'

brn sl  
7msbk

1.8'

brn fs  
10% gravel

3'

brn fs  
many mica

3'

grey-brn  
w/ yellow mica

10'

dk grey-brn  
w/ yellow & grey  
moist  
water

10.2'

grey-brn sl  
micaceous

8.5'

dk grey-brn  
w/ pale yellow, grey, w/ red  
water

7'

grey-brn sl  
micaceous

25'

Same as #24  
To 25'

7'

grey-brn sl  
few yellow spots

7'

grey-brn sl  
micaceous

8.5'

dk grey-brn  
w/ pale yellow, grey, w/ red  
water

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/12/11	27	3.8' / 10.8'	12:22	12:33	12:48	15	P
5/12/11	26	4.6' / 12.3'	12:37	12:51	1:07	16	P
5/12/11	24	4.3' / 10'	1:03	1:06	1:10	4	P
5/12/11	40	3.7' / 8.5'	1:23	1:28	1:37	9	P
5/12/11	23	4' / 12.4'	1:41	1:43	1:46	3	P
5/12/11	41	6.5' ←	water level				F

REMARKS \_\_\_\_\_

SANITARIAN RB BACKHOE Chuck Zapp OTHERS Jeremy Rutter

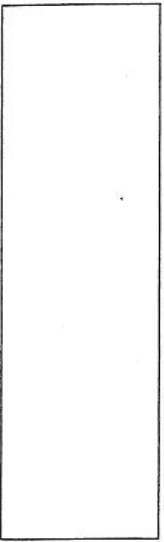
TEST HOLES USED IN SPA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_

TRENCH WIDTH 2' INLET DEPTH 3' MAX. BOT DEPTH 6.0' EFFECTIVE SW \_\_\_\_\_

Lower reserve area

27  
dk brnsl 0.3'  
brn sl 3msbk 1.2'  
brn fs  
com. mica  
dense, heavy  
3.0'  
lt. grey-brn  
& brn sl  
micaceous  
8'  
lt. grey brn  
ls  
10.9'  
pale brn  
w/ red & pale yellow  
11.2' water

23  
dk brnsl 0.2'  
brn loam  
4' w/ red heavy  
dense sl, many mica  
2.7'  
lt. grey brn sl  
micaceous  
10.2'  
grey-brn  
ls, micaceous  
12.4'  
dk grey brn  
pale yellow, grey  
micaceous 13.2'



EASEMENT 5-8 & NON-BUILDABLE PRESERVATION PARCEL 'B' (PLATS 25116-25117)

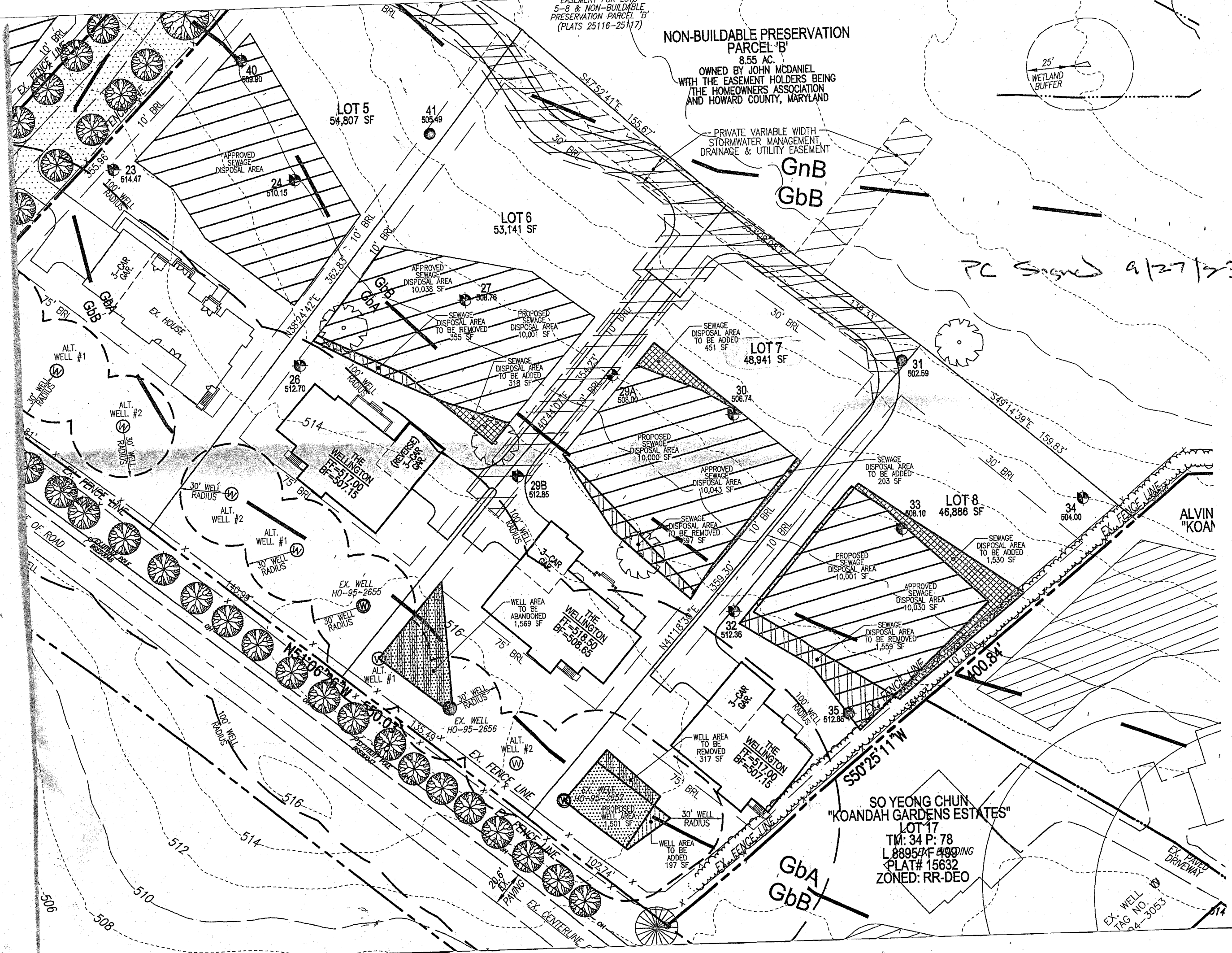
NON-BUILDABLE PRESERVATION PARCEL 'B' 8.55 AC. OWNED BY JOHN MCDANIEL WITH THE EASEMENT HOLDERS BEING THE HOMEOWNERS ASSOCIATION AND HOWARD COUNTY, MARYLAND

PRIVATE VARIABLE WIDTH STORMWATER MANAGEMENT DRAINAGE & UTILITY EASEMENT

GnB GbB

25' WETLAND BUFFER

PC Signed 9/27/73



LOT 5 54,807 SF

LOT 6 53,141 SF

LOT 7 48,941 SF

LOT 8 46,886 SF

SO YEONG CHUN "KOANDAH GARDENS ESTATES" LOT 17 TM: 34 P: 78 L 8895 SF 400' DRIVING PLAT# 15632 ZONED: RR-DEO

ALVIN "KOAM"

EX. WELL TAG NO. 04-3053