

APPLICATION

PERCOLATION TESTING

A 38636

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
P.O. BOX 476 ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 461-9933

DISTRICT _____

DATE _____

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER _____

ADDRESS _____ PHONE _____

PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION Willow Highlands LOT NO. 13 Retest

ROAD AND DESCRIPTION Willow Springs Drive

TAX MAP _____ PARCEL # _____

SIZE OF LOT _____ TYPE BLDG _____
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT.

(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 2-28-91 Shallow system only. Bottom maximum depth at 4.0 ft. less than 10,000 sq ft available. Lower half of SDA includes questionable soils. JEN

HD-216

THIS IS NOT A PERMIT

3/21/91

APPLICATION

PERCOLATION TESTING

A 38636

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
P.O. BOX 476 ELLICOTT CITY, MARYLAND 21043
TELEPHONE 461-9933

*CONTINUATION —
DUG AT APPLICANT'S REQUEST,
REQUESTING RECONSIDERATION
OF PREVIOUS WEEKS
HEALTH DEPT RECOMMENDATION
FOR I & A SHALLOW SYSTEM.*

DISTRICT _____

DATE _____

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER _____

ADDRESS _____ PHONE _____

PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION WILLOW HIGHLANDS LOT NO 13

ROAD AND DESCRIPTION _____

TAX MAP _____ PARCEL # _____

SIZE OF LOT _____ TYPE BLDG _____
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT.

(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

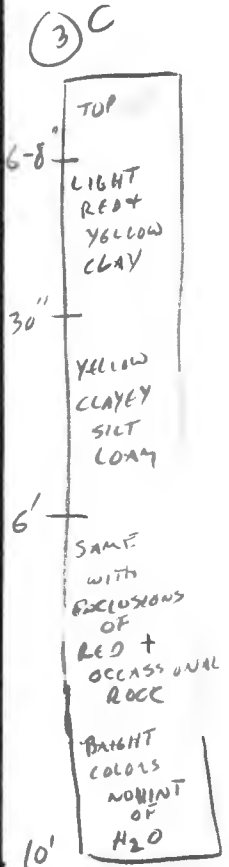
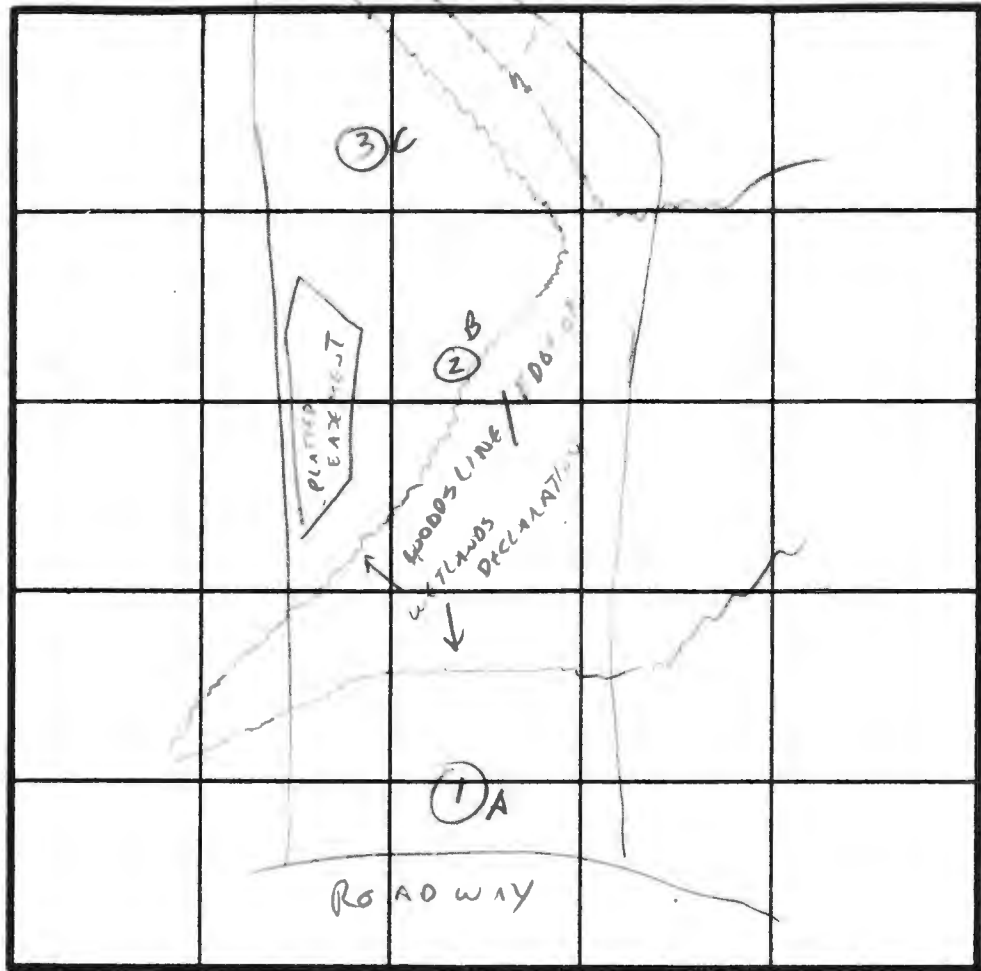
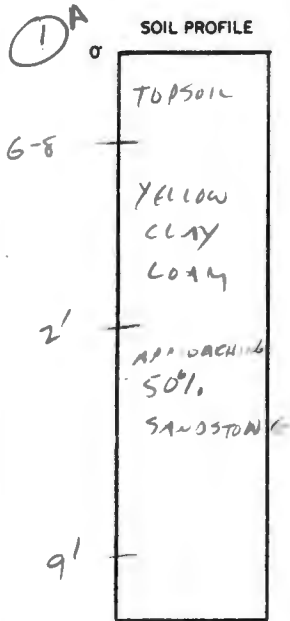
REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

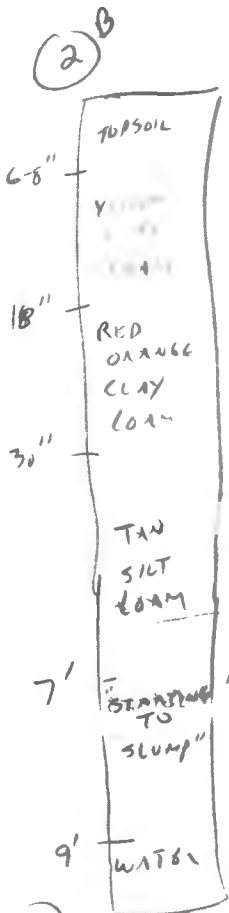
REASONS FOR REJECTION OR HOLDING _____

HD-216

THIS IS NOT A PERMIT



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.



DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
3/21/91	1A	EXCESS ROCK / CONFLICT WITH WELL SITE					X
	2B	TOO WET BUT ONLY BY SLIGHT MARGIN - ? SUPPORTING CONCLUSION THAT PLATTED SEWER EASEMENT AT SIMILAR ELEVATION BUT 70' AWAY WOULD HAVE ADEQUATE DEPTH TO WATER TABLE.					
	3C	PERCIPITATION @ 6', DAY TO 10' LOWER IN LANDSCAPE THAN SEWER EASEMENT SEWER EASEMENT COULD BE EXTENDED IN THIS DIRECTION IF NECESSARY					

REMARKS OBSERVED NO WATER TABLE PROBLEMS IN CRITICAL LOCATION DESPITE PRIOR OBSERVATION OF 'SOME' MOTTLES BUT NO WATER IN THE SDA IN PRIOR WET SEASON EVALUATIONS

TYPE OF SOIL OK TO USE PLATTED EASEMENT FOR SHALLOW SYSTEM, KERR, BEACH

TESTED BY C. Williams ALSO PRESENT

(RECREATED FROM TEST OBSERVATIONS FIRST RECORDED 3/21/91) - 5/27/99 (CW)

#2 DUG AT EDGE OF DESIGNATED WETLAND

TP₂ had ^{Typical} similar Topsoil + Subsoils for Manor 6 levely - Chester Series
(i.e. 2.5YR-5YR, occasionally 10R 4/4 - 4/6 to 5/8's in Bt horizons.
Some mk-k clay faces on 25-50% peds in Bt horizons were noted. A horizon (10 inch thick)
2.5YR 4/4 - 4/6 had Sbt structure of moderate development as did Subsoil horizons
but heavy loams (somewhat micaceous) of A became noticeably clay loams of
Bt + BC (27-33% clay). Redder > 10R 4/6 layer of Ch at 24" & 36" depth approximately.
Light loams (~12-15% clay) of Mixed Brown, grey Brown, whitish and various red brown hues
extended from 4 - 4 1/2 ft to Bottom @ 9 1/2 ft. No water or rock encountered.

TP₃ North East Side had similar A + Bt horizons as described @ TP1/2
No red horizon but beginning of a light colored yellow-yellow gold Loam - Silty saprolite
with 10-15% small - medium brown or black streaks & spots randomly mixed thru matrix
(color halfway between 7.5YR 8/6 and 8/8). Saprolite extended 4 ft to 10 ft below ground surface.
South West Side of trench had similar A horizon but soils were all dark brown +
Dark Black + 5-10% white-yellow variegated soils from Bc through Saprolite. Bottom @ 9 ft
was an unweathered slab of greenish schist rock (bedrock?) banded streaks of color
in saprolite paralleled the 60° ± 45° dip of rock toward East (i.e. get shallower as went westward)
B horizons appeared loamier textured and not easily stratified in this side of trench.
Near bottom third of trench soils were dark red color but still SL texture + all saprolites were
loose on this side (as opposed to firmer massive structure of yellow loams.)
(10R 4/6)

Comment The only other time I've seen such dark colored but light textured saprolite, was in a
Manor soil at the transition point to a Colonus (Floodplain) soil. Therefore,
the colors may be associated with a relic of the parent material or
archaic colors from an earlier deposition (alluvial) period, just as easily
as if they were associated a present water table problem.

Note - No water was encountered in any of these 3 trenches, but the bedrock and high
percent rock fragments are conditions to avoid. This may limit the
available septic area to less than 10,000 sq ft SDA. More testing may
be advisable, at your discretion

SOIL DESCRIPTION

NAME Willow Springs lot 13 COUNTY Howard FILE NO A 2000
 SOIL MAP UNIT Chester, Glenely (typical) MAP SYMBOL 39p (lites) DATE 3-13-91
 GEOLOGIC MATERIAL Green micaceous Schist ELEVATION _____ GRID NO _____ E
 NO. TP1 DESCRIBED BY R. Pinkley _____ N

Horizon	Depth in.	Color		Texture	Structure		% Rock Fragments	Notes (Moisture, Density, Biopores, Seepage)
		Matrix	Mottles		Grade	Type		
A	0-10"	Red Browns 5YR 4/4	—	L	2f	Sbk	5% small flat gravels	Moist cfr roots mfr about 20% clay
Bt ₁	10-17"	even mix of 2.5YR 5/8	2.5YR 4/6	hL-CL	2f-m	Sbk	20% med size gravels	Moist 2-3 thick clay films about 27% clay mfr
Bt ₂	17-24"	5YR 6/8	Mix of 2.5YR 4/6 2.5YR 5/8	hL-CL	2f-m	Sbk	25% gravels	Moist about 27% clay mfr
Bc	24-31"	same colors as Bt ₂ plus c20 black Mn stains		hL-CL	1f-m	Sbk	30% gravels	Moist about 27% clay mfr
Cr	31" to 9ft	Variegated Browns, grey Browns and yellow Browns		SL-L both types mixed	—	Single	80-80% cobbles	Dry to slight moist Loose to mfr >12% clay
	Transition	to few cobbles and yellowish loam to sil & gravel as at TP3 on south west side of Trench						
				(C ₂₀ 7.5YR 7/8)				

LANDSCAPE

Position

Summit _____
 Shoulder _____
 Sideslope _____
 Footslope _____
 Depression _____
 Upland _____
 Terrace _____
 Floodplain _____

Slope

Percent _____
 Shape _____

SOIL DRAINAGE CLASS

ED _____ MWD _____ PD _____
 WD SPD _____ VPD _____

WATER TABLE

None encountered

LIMITING ZONE

> 70% rock fragments at 2 1/2 ft.

SOIL CLASSIFICATION

WPR Limitation possible w/ per soil color @

Make Trenches 3 ft deep, 3 ft wide (with manure only)

Leaky Design @ 0.8 gpd/sq ft 6 to 7 ft deep (Loamy Sand) (5-10 psi)
or 0.6 (Loam) (5-30 psi)

8/22/19
R/P
(A38636) Design for LPD
Willow Highlands Willow Springs R.
Lot 13
assumes Soil Load
tested (in gal/sq ft)

Assume 3 Bdr = $450 \text{ gpd} \div 1.8$

effective absorb area = 562.5 sq ft
Total length of Trench $\div 3 = 187.5 \text{ LF Trench}$
 $\rightarrow = 62.5 \text{ LF per Trench}$
tot 3 trenches =

Need 12' cto spacing

$450 \div .6 = 750$
EAA \rightarrow $750 \div 3 = 250 \text{ LF}$
Total trench length = 250 LF
 $\div 3 = 83.3 \text{ LF/Trench (3 tr)}$
or $\div 4 = 62.5 \text{ LF Trench (4 tr)}$

* if place Trenches @ 4 ft depth in Loamy sand
put 1/2 ft above diff / trunk

per. call cov of 8/22/19

Use Alternating Trench Design
with pump to dist box

Revision
Assume
4 Bdr
 $600 \div 1.5 =$
IS 3 ft deep \rightarrow
 $450 \div .45 = 1000 \text{ gpd}$
 $= 333.3 \text{ LF tot}$
 $= 4 \times 83.3'$
or
 $= 5 \times 66.7'$

~~$187.5 \times 1.5 = 281.25$
 $\div 4 = 70.3'$
 $\div 6 = 46.88'$~~

use 3 ft depth of trench

.6
 $250 \text{ LF} \times 1.5 = 375'$
 $\div 4 = 93.75$
 $\div 6 = 62.5 \text{ LF} \times 3 \text{ each set } \rightarrow 72' \text{ wide}$
6 trenches total

$600 \div 1.5 = 400 \text{ gpd}$
 $450 \div .45 = 1000 \text{ gpd SAA}$
 $333.3 \text{ LF} \times 1.5 = 500 \text{ LF}$
preferred $\div 6 = 83.3 \text{ LF each}$
 $\div 8 = 62.5 \text{ LF}$

80-90' Max trench length in SAA

$8 \times 12 = 96' \text{ wide}$
 $6 \times 12 = 72' \text{ wide}$

12' spacing
6
72' wide
84' long
6048 sq ft per SDA
OK

Do use 2 systems 6 lines Total
each out of 3 line 84 LF long

2 DB's
1 Ball Pen Valve

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P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
P.O. BOX 476 ELLICOTT CITY, MARYLAND 21043
TELEPHONE 461-9933

DISTRICT 3

DATE 12-16-1986

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER WILLOW SPRINGS LIMITED PARTNERSHIP
16801 WESLEY CHAPEL ROAD
ADDRESS MONKTON, MARYLAND 21111 PHONE 347-8700

PROSPECTIVE BUYER _____
ADDRESS _____ PHONE _____

PROPERTY LOCATION: Highland
SUBDIVISION WILLOW SPRINGS GOLF COURSE LOT NO. 13
ROAD AND DESCRIPTION N/S U.S. RTE 70 N AT LIVE STOCK ROAD

TAX MAP 9 & 15 PARCEL # 151 & 11
SIZE OF LOT 3.0 Ac. ± TYPE BLDG S.F.D
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT.

By WILLOW SPRINGS INC Gen Partner
James C. [Signature]
(SIGNATURE OF APPLICANT)

APPROVED BY [Signature] FOR Steward [Signature] DATE 12-18-86

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 4-14-87 Perc Admin. [Signature] - hold for submission re: 5 A.G.P.

THIS IS NOT A PERMIT

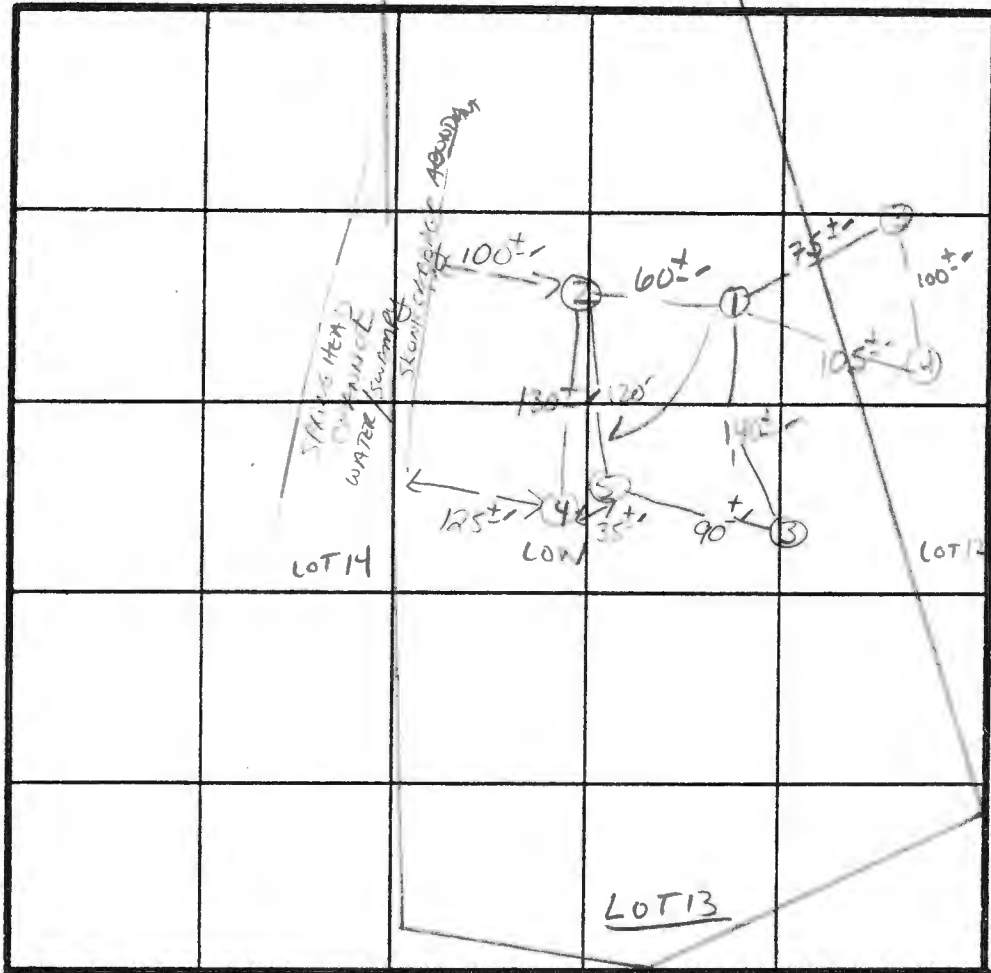
Willow Sp. Ct.

1N

①

SOIL PROFILE

0'	AP.
1.5'	Yellow Br Clay loam 15-25 C10% FA
3.5'	Yellow Br Silty to Br yellow Silt loam 15-20 F-SS M.A Dry



̄ Perc 11 min
200 #/BK
INLET 3'
Bottom 5'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
4/14/87	1S M	3.5'	1:40	1:45	1:45	1:55	10 min	
		8'	1:39	1:47	1:47	1:59	12 min	
	1V	13'	uniform soil below 3.5' soil dry					
	2V	13'	uniform soil below 3.5' soil dry					
	3S	4'	2:19	2:23	2:23	2:32	9 min	
	3V	13'	uniform soil below 3.5'					
	4S	WATER ENTERING AT 8.5' PLAYS TO 3.5'						
	5S	3'	2:18	2:24	2:24	2:36	12 min	
	5V	13.5'	uniform soil below 3.5'					

REMARKS Holes Diff Than 2nd STAKEOUT
Holes Diff Than PLAT / Shallow SYST only

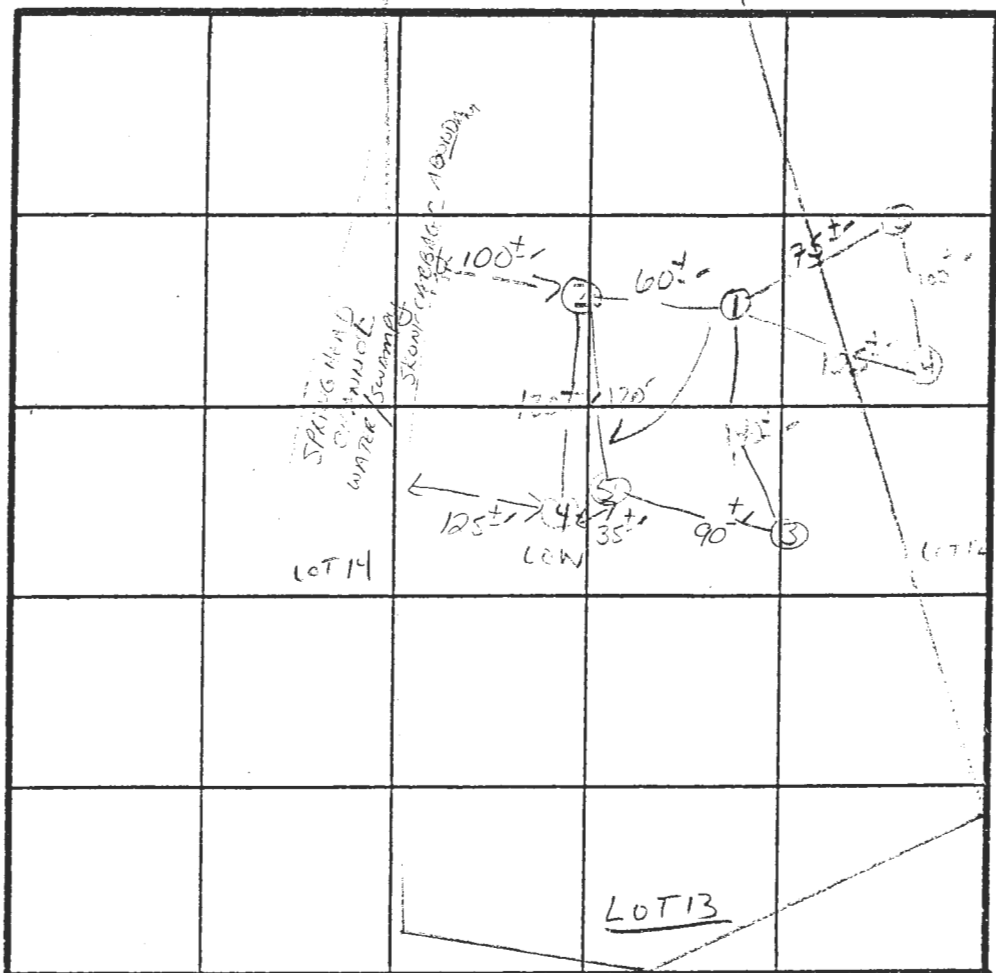
TYPE OF SOIL CHESTER

TESTED BY S. Abel ALSO PRESENT O-KATTERMAN

EH-12-1079

willow Sp. Ct. 1N

①
SOIL PROFILE
AP.
Yellow Br. clay loam
15' to 20'
sandy
water
Δ high to
bottom of
lot
10'



̄ Perc 11 min
200 φ/blk
INCLT 3'
Bottom 5'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
4/14/87	1 S	3.5'	1140	1145	1145	1155	10 MIN
	1 N	8'	1139	1147	1147	1159	12 MIN
	1 V	13'	UNIFORM	Soil below 3.5'			
	2 V	13'	UNIFORM	Soil below 3.5'			
	3 S	4'	2119	2123	2123	2132	9 MIN
	3 V	13'	UNIFORM	Soil below 3.5'			
	4 S		WATER ENTERING AT 8.5' PLAYS TO 3.5'				
	5 S	3'	2118	2124	2124	2136	12 MIN
		13.5'	UNIFORM	Soil below 3.5'			

Original
Per results for Lot 13
apparently
lot lines
were
modified
before record
pk

REMARKS: HOLES DIFF THAN 2ND STRAIGHT
HOLES DIFF THAN PERM / SHALLOW STAY ONLY

TYPE OF SOIL: CLAY

TESTED BY: S. Abel

G-KATHMAN

ALSO PRESENT

NATIONAL BLDG 7916

NOTES

- THE COORDINATES SHOWN HEREON ARE BASED ON THE MARLAND STATE GRID SYSTEM.
- SUBJECT PROPERTY CORNER R PER 0-1-80 COMPREHENSIVE ZONING PLAN.
- THIS AREA DESIGNATES A PRIVATE SEWAGE TREATMENT AS REQUIRED BY THE MARLAND STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS. THESE IMPROVEMENTS SHALL BE COMPLETED AND THE RESULTS MADE AVAILABLE TO THE HEALTH DEPARTMENT. THESE IMPROVEMENTS SHALL BE IN CONNECTION TO A PUBLIC SEWAGE TREATMENT PLANT. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO JUDGMENT ADVISES ARE BEING MADE INTO THE SEWAGE TREATMENT PLANT. THE SEWAGE TREATMENT PLANT SHALL NOT BE NECESSARILY THE MARLAND STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OVERSIZING WIDTH AND LOT AREA AS REQUIRED BY THE MARLAND STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE.
- FOR PLAT OR PLE FROM LOTS, REFUSE COLLECTION, SHOW PERMANENT AND ROAD MAINTENANCE TO BE PROVIDED AT THE DISCRETION OF THE STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE.
- DESIGNATES BALDING RESTRICTION LINE.
- DESIGNATES 100 YEAR FLOOD PLAIN ELEVATION.
- DESIGNATES SUCCESSFUL PEAR TEST.
- SEE B.C.M. ON P. 81-71, VP 81-14, S. 81-17.
- PRIVATE SEWAGE TREATMENT WITH A MINIMUM RESTRICTION OF 500 G.P.D.

7916

INDEX MAP

MINIMUM LOT AREA CALCULATIONS

LOT NO.	SLOPE/FLOOD PLAIN AREA	NET LOT PROVISION AREA	MIN. LOT AREA
1	3.07 AC.	2,524 AC.	2,524 AC.
2	3.07 AC.	2,524 AC.	2,524 AC.
3	3.07 AC.	2,524 AC.	2,524 AC.
4	3.07 AC.	2,524 AC.	2,524 AC.
5	3.07 AC.	2,524 AC.	2,524 AC.
6	3.07 AC.	2,524 AC.	2,524 AC.
7	3.07 AC.	2,524 AC.	2,524 AC.
8	3.07 AC.	2,524 AC.	2,524 AC.
9	3.07 AC.	2,524 AC.	2,524 AC.
10	3.07 AC.	2,524 AC.	2,524 AC.

LOT NO.	SLOPE/FLOOD PLAIN AREA	NET LOT PROVISION AREA	MIN. LOT AREA
11	3.07 AC.	2,524 AC.	2,524 AC.
12	3.07 AC.	2,524 AC.	2,524 AC.
13	3.07 AC.	2,524 AC.	2,524 AC.
14	3.07 AC.	2,524 AC.	2,524 AC.
15	3.07 AC.	2,524 AC.	2,524 AC.
16	3.07 AC.	2,524 AC.	2,524 AC.
17	3.07 AC.	2,524 AC.	2,524 AC.
18	3.07 AC.	2,524 AC.	2,524 AC.
19	3.07 AC.	2,524 AC.	2,524 AC.
20	3.07 AC.	2,524 AC.	2,524 AC.

LOT NO.	SLOPE/FLOOD PLAIN AREA	NET LOT PROVISION AREA	MIN. LOT AREA
21	3.07 AC.	2,524 AC.	2,524 AC.
22	3.07 AC.	2,524 AC.	2,524 AC.
23	3.07 AC.	2,524 AC.	2,524 AC.
24	3.07 AC.	2,524 AC.	2,524 AC.
25	3.07 AC.	2,524 AC.	2,524 AC.
26	3.07 AC.	2,524 AC.	2,524 AC.
27	3.07 AC.	2,524 AC.	2,524 AC.
28	3.07 AC.	2,524 AC.	2,524 AC.
29	3.07 AC.	2,524 AC.	2,524 AC.
30	3.07 AC.	2,524 AC.	2,524 AC.

VICINITY MAP

INDEX MAP

MINIMUM LOT AREA CALCULATIONS

LOT NO.	SLOPE/FLOOD PLAIN AREA	NET LOT PROVISION AREA	MIN. LOT AREA
31	3.07 AC.	2,524 AC.	2,524 AC.
32	3.07 AC.	2,524 AC.	2,524 AC.
33	3.07 AC.	2,524 AC.	2,524 AC.
34	3.07 AC.	2,524 AC.	2,524 AC.
35	3.07 AC.	2,524 AC.	2,524 AC.
36	3.07 AC.	2,524 AC.	2,524 AC.
37	3.07 AC.	2,524 AC.	2,524 AC.
38	3.07 AC.	2,524 AC.	2,524 AC.
39	3.07 AC.	2,524 AC.	2,524 AC.
40	3.07 AC.	2,524 AC.	2,524 AC.

LOT NO.	SLOPE/FLOOD PLAIN AREA	NET LOT PROVISION AREA	MIN. LOT AREA
41	3.07 AC.	2,524 AC.	2,524 AC.
42	3.07 AC.	2,524 AC.	2,524 AC.
43	3.07 AC.	2,524 AC.	2,524 AC.
44	3.07 AC.	2,524 AC.	2,524 AC.
45	3.07 AC.	2,524 AC.	2,524 AC.
46	3.07 AC.	2,524 AC.	2,524 AC.
47	3.07 AC.	2,524 AC.	2,524 AC.
48	3.07 AC.	2,524 AC.	2,524 AC.
49	3.07 AC.	2,524 AC.	2,524 AC.
50	3.07 AC.	2,524 AC.	2,524 AC.

LOT NO.	SLOPE/FLOOD PLAIN AREA	NET LOT PROVISION AREA	MIN. LOT AREA
51	3.07 AC.	2,524 AC.	2,524 AC.
52	3.07 AC.	2,524 AC.	2,524 AC.
53	3.07 AC.	2,524 AC.	2,524 AC.
54	3.07 AC.	2,524 AC.	2,524 AC.
55	3.07 AC.	2,524 AC.	2,524 AC.
56	3.07 AC.	2,524 AC.	2,524 AC.
57	3.07 AC.	2,524 AC.	2,524 AC.
58	3.07 AC.	2,524 AC.	2,524 AC.
59	3.07 AC.	2,524 AC.	2,524 AC.
60	3.07 AC.	2,524 AC.	2,524 AC.

CURVE DATA

NUMBER	RADIUS	ARC	DELTA	TANGENT	CHORD
101-110	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'
111-120	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'
121-130	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'
131-140	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'
141-150	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'
151-160	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'
161-170	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'
171-180	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'
181-190	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'
191-200	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'

NUMBER	RADIUS	ARC	DELTA	TANGENT	CHORD
201-210	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'
211-220	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'
221-230	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'
231-240	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'
241-250	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'
251-260	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'
261-270	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'
271-280	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'
281-290	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'
291-300	100.00'	364.53'	47.53.53"	431.04'	416.50 CH. E. 784.93'

TABULATION OF FINAL PLAT

STATE DEPT. OF ASSESSMENTS & TAXATION

MINIMUM LOT AREA CALCULATIONS

WILLOW SPRINGS LIMITED PARTNERSHIP

OWNER'S CERTIFICATE

MINIMUM LOT AREA CALCULATIONS

WILLOW SPRINGS LIMITED PARTNERSHIP

OWNER'S CERTIFICATE

MINIMUM LOT AREA CALCULATIONS

WILLOW SPRINGS LIMITED PARTNERSHIP

OWNER'S CERTIFICATE

MINIMUM LOT AREA CALCULATIONS

WILLOW SPRINGS LIMITED PARTNERSHIP

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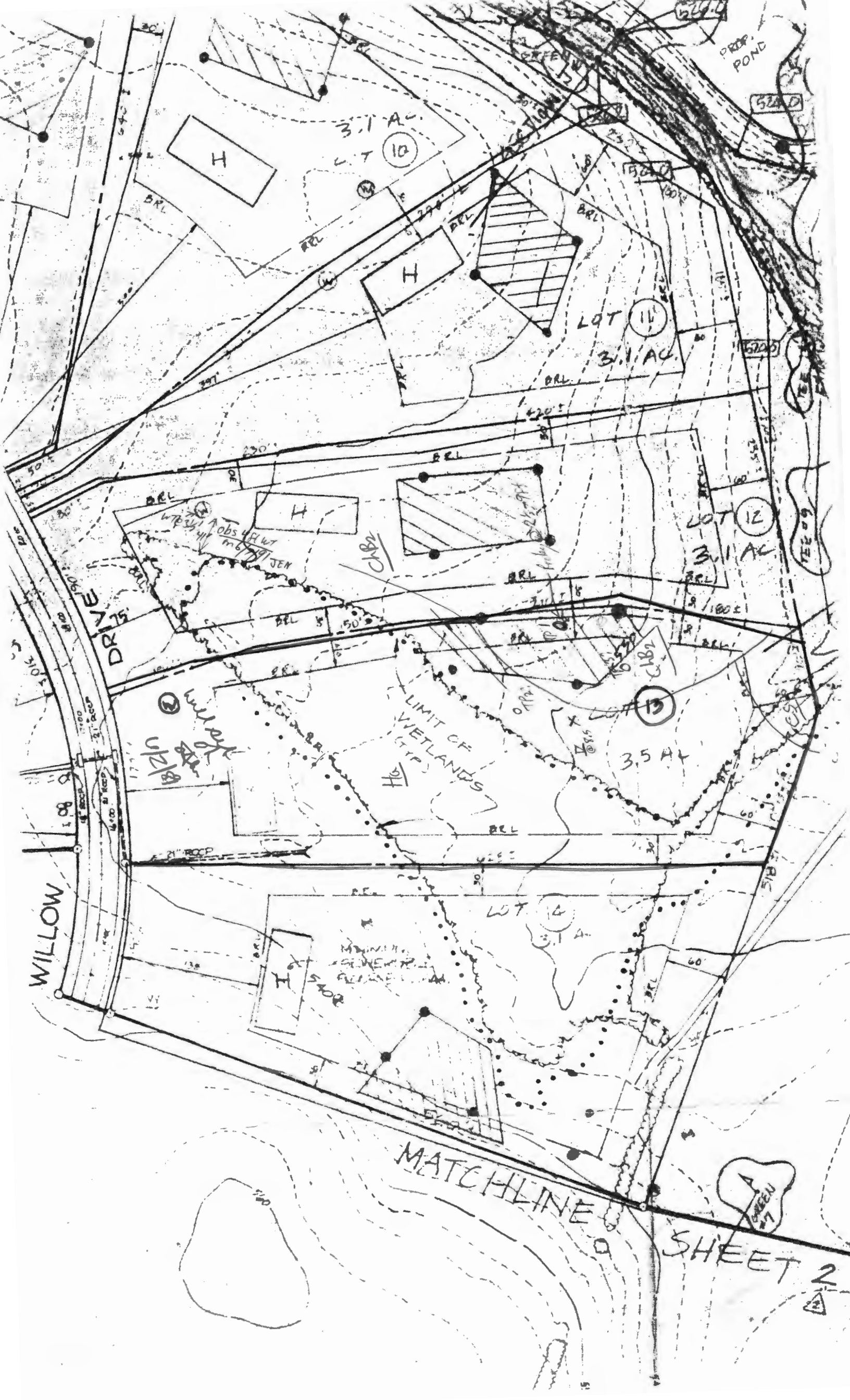
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PREF. POND

3.1 AC

LOT 10

H

H

LOT 11

3.1 AC

LOT 12

3.1 AC

LOT 13

3.5 AC

LOT 14

3.1 AC

H

MATCHLINE

SHEET 2



Bragesh Vyas

240 - 228 - 4510

Lot 13 Willow Springs

1/24 He has been told that he needs to re-perc; wants to know if this is true.

I.e. Is a building permit approvable for a new house?

Is there a bedroom limitation?

R. Bucken