9/21/00
10 AM Layout

PERMIT

SEWAGE DISPOSAL SYSTEM

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
410-313-2640

P 514255
A 58993-W
ISSUE DATE 9/15/2000
APPROVAL DATE 9/22/00

04-364430

INDEXED

Hatfields Equipment IS PERMITTED TO INSTALL X ALTER ____

ADDRESS 13785 Burntwoods Road, Glenelg, MD 21737 PHONE 301-854-6172

SUBDIVISION Cattail Ridge LOT NUMBER 21 ADDRESS 3508 Winding Path Court

PROPERTY OWNER Williamsburg Group, LLC PROPERTY OWNER'S ADDRESS P.O. Box 1011
Columbia, MD 21044

SEPTIC TANK CAPACITY 1250 GALLONS

PUMP CHAMBER CAPACITY N/A GALLONS (Top Seamed Tanks)

NUMBER OF BEDROOMS 4

SQUARE FEET PER BEDROOM 210

LINEAR FEET OF TRENCH REQUIRED 280

TRENCHES: Trenches to be 3 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 5.0 feet below original grade. 2 feet of stone below distribution box.

LOCATION: Place the distribution box 120 feet down the left lot line and 20 feet off this same lot line as seen from Winding Path Court. Run trenches along contour towards the right lot line. OK/MR

BUILDING PERMIT SIGNED AND RETURNED 8-29-02
B00138199 - DECK W/STAIRS

PLANS APPROVED Amy McMillen ac 7/19/00 DS DATE 07/12/00

PERMIT VOID AFTER 2 YEARS

NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS

NOTE: TOP OF SEPTIC TANKS ARE TO BE NO DEEPER THAN 3.0 FEET BELOW FINISH GRADE

NOTE: WATERTIGHT SEPTIC TANKS REQUIRED

NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS, 90° ELBOWS ARE NOT ACCEPTABLE

NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX, DRAINFIELDS) TO BE 100 FEET FROM ANY WATER WELL UNLESS OTHERWISE SPECIFICALLY AUTHORIZED

NOTE: NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH UNLESS SPECIFICALLY AUTHORIZED

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS

NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

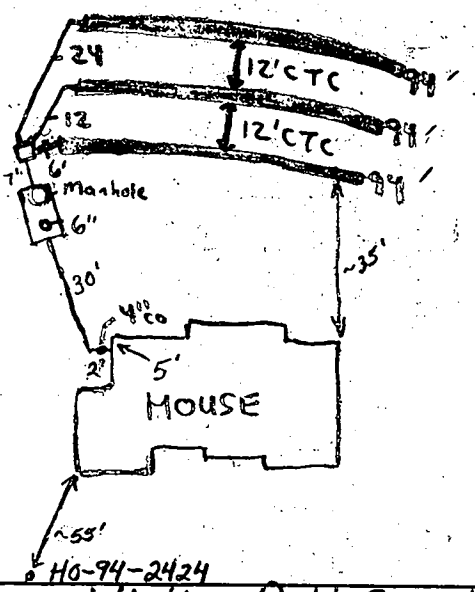
NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

NOTE: IF PUMPED SEPTIC SYSTEM REQUIRED, (1) SEPTIC PUMP DETAIL TO BE PROVIDED BY INSTALLER PRIOR TO ISSUANCE OF SEPTIC PERMIT (2) PUMP PERFORMANCE TEST IS NECESSARY PRIOR TO HEALTH DEPARTMENT APPROVAL OF SEPTIC PERMIT

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 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

A 58993W

NOT TO SCALE



Winding Path Court

TRENCH DATA

TRENCH WIDTH 3'

TRENCH INLET DEPTH 3'

TRENCH BOTTOM DEPTH 5'

DEPTH OF STONE 2'

NUMBER OF TRENCHES 3

TOTAL TRENCH LENGTH 282±

ABSORBENT AREA 846 ft²

DISTRIBUTION BOX LEVEL ✓

BAFFLE IN DISTRIBUTION BOX ✓

4 INCH AT HOUSE

SEPTIC TANK DATA

SEPTIC TANK 1500 TS GALLONS

MANHOLE RISER Yes

6 INCH INSPECTION PORT Yes

PUMP CHAMBER DATA

PUMP CHAMBER GALLONS N/A

MANHOLE RISER N/A

ALARM N/A

PUMP PERFORMANCE TEST N/A

PRE-CONSTRUCTION INSPECTION: 3-93' Trenches

INSPECTION COMMENTS: 9/21/00 Tank and first trench look satisfactory. O.K. to cover. House connection made (BB) 9/22/00 -OK TO COVER ALL WORK (SRM)

INSPECTOR Steven R. Craig DATE SYSTEM APPROVED 9/22/00

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410)313-2640 FAX: (410)313-2648

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: Charles A Klein & Son, Inc Telephone #: (410) 549-6960
Address: 5220 Klees Mill Road
Sykesville, MD 21784

(Must circle one) (Licensed Plumber) Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): Charles A Klein, Jr License# 6521
*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: [illegible] Group LLC Telephone #: (410) 997-8900
Subdivision: CATTAIL RUN Lot #: 21 Well Tag #: HO-[illegible]
Site Address: 3408 WINDING HILL Court

Submersible Pump Data	Pitless Adapter	Well Cap and Electric Conduit
Make: JACUZZI	Make: Hydro	Two piece watertight cap: ✓
Model #: 5S45-13P-52	Model#: PE800	Screened, vented well cap: ✓
Pump Capacity 5 GPM	Depth: 4' (36" min)	Cap secured to casing: ✓
Well Yield: 20 GPM	NSF approved:	Conduit min 18" B.G.: ✓
		Conduit secured to well cap: ✓

Depth of well encountered at time of pump installation: 285 (feet)
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4
Torque arrestors or Cable guards are required – Must circle one
Safety rope, if used, attached to inside of well casing with eye bolt ____

Piping to house	House Connection
Type: Polyethylene	PVC sleeved to undisturbed soil at wall penetration: Yes
PSI: 160 (160 psi min)	Approximate length of sleeve:
Depth of supply line: 5' (36" min)	Sleeve caulked and sealed properly: ✓

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Charles A Klein Jr. 11/27/00
Signature of company representative responsible for installation date
Charles A. Klein, Jr.

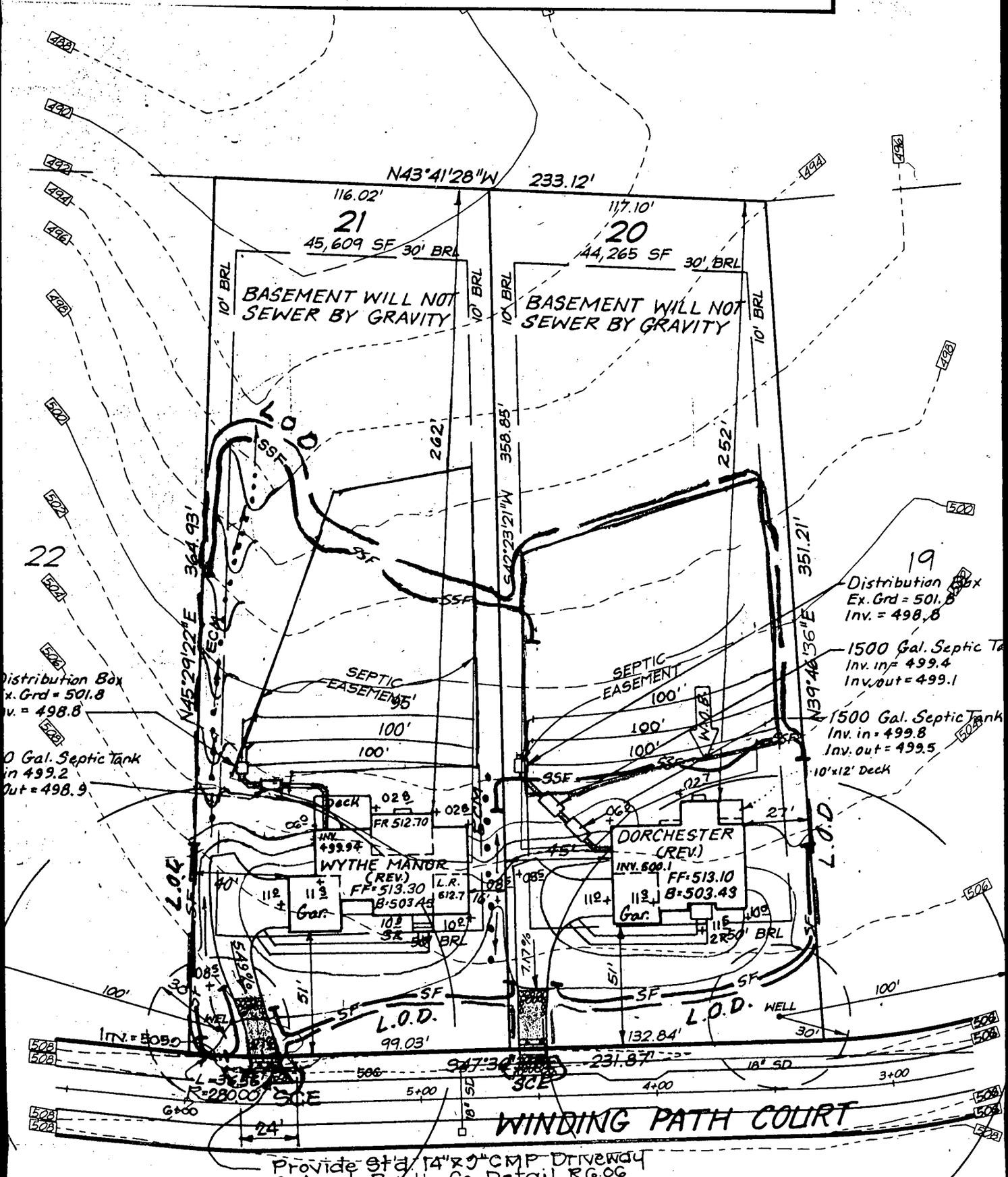
For Health Department Use Only – Not to be completed by Installer

Date Insp. Requested: 10/4/00 Date Insp. Approved: 10/4/00
Inspection Data:

Pitless adapter and water supply line at least 36" below grade	✓
Two piece cap installed and attached to casing securely	✓
Elec. conduit extends at least 18" below grade/attached to cap properly	✓
Safety rope installed inside of well casing	✓
Correct well tag attached properly and casing 8" above finished grade	✓
Water supply line sleeved adequately at house connection	✓
Adequate grout observed below pitless adapter	✓

DKC
BB

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY COLUMBIA, MD 21045 (410) 381-7500 BALT. • (301) 621-8100 WASH.



Approved Septic System Plan
Howard County Health Department

Signature _____ Date 7/12/00

Total linear feet of ~~trench~~ required 280 feet

Width of trench(es) 3.0 feet

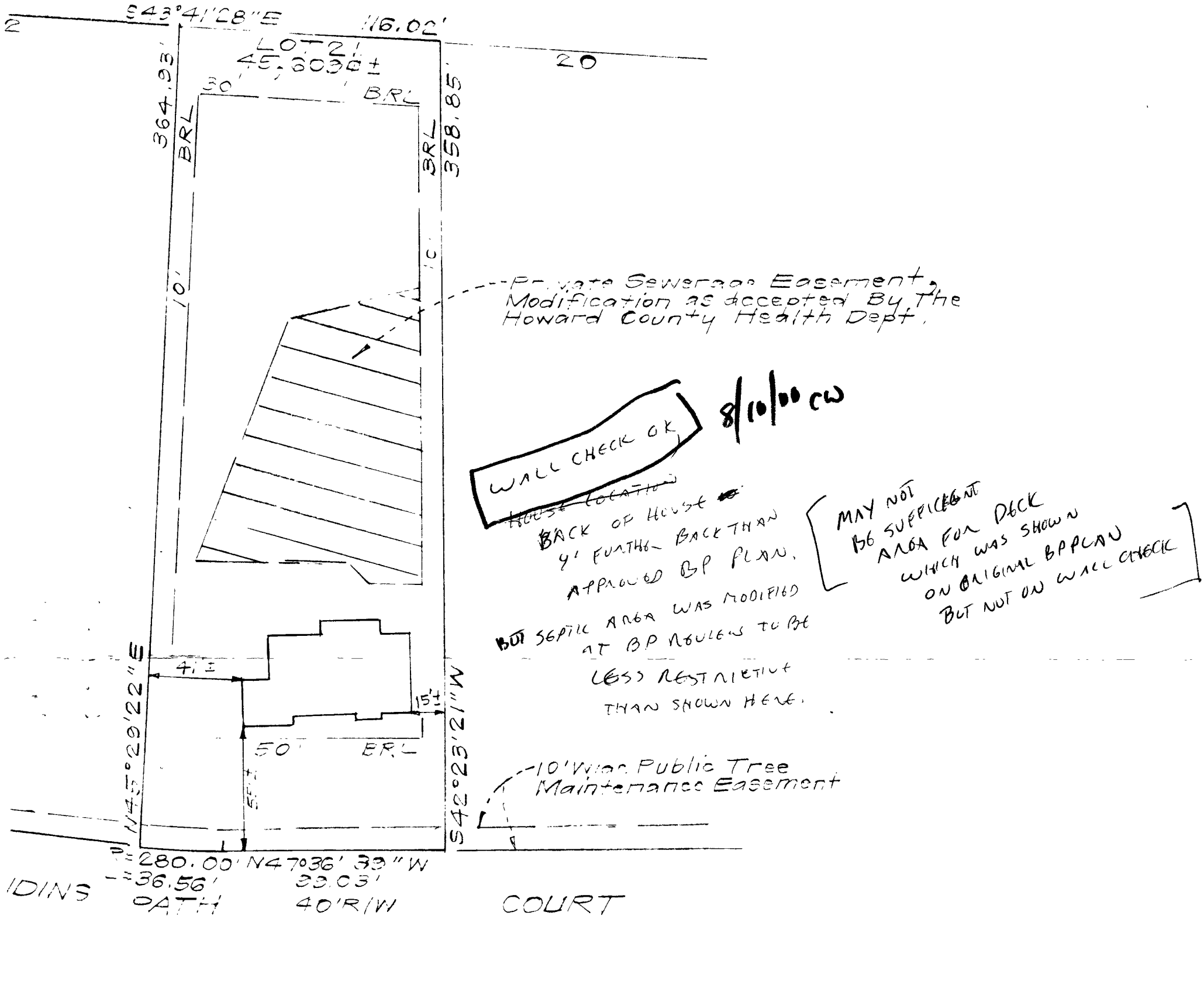
Depth of trench(es) 5.0 feet

Depth of stone required below distribution pipe 2.0 feet

Wall Check.
Top of Wall

86

NON-BUILDABLE PRESERVATION PARCEL 'C'



NOTES

1. The ± setback distance accuracy = 1'

Plat Refer

CFS
7135 M N

DESIGNED

DRAWN
KWC

CHECKED
PAS

MARYLAND
LEE, JR.

APPLICATION

PERCOLATION TESTING

A 58993

P _____

DISTRICT _____

DATE 9-25-97

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER J. Thomas Sachse

ADDRESS _____ PHONE _____

AGENT OR PROSPECTIVE BUYER c/o LDAD

ADDRESS 10365 Hillary Ridge Suite 215 PHONE 410-740-2102
Columbia, MD 21044

PROPERTY LOCATION:

SUBDIVISION Hearn Rei LOT NO. ~~A~~ 21

ROAD AND DESCRIPTION Rte 97

TAX MAP 21 PARCEL # ~~1337~~ 3

SIZE OF LOT 1 acre TYPE BLDG. SFD (38 LOTS)
(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 _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

HD-216 (3/92)

LOT 22

COUNTY #

SOIL PROFILE

365

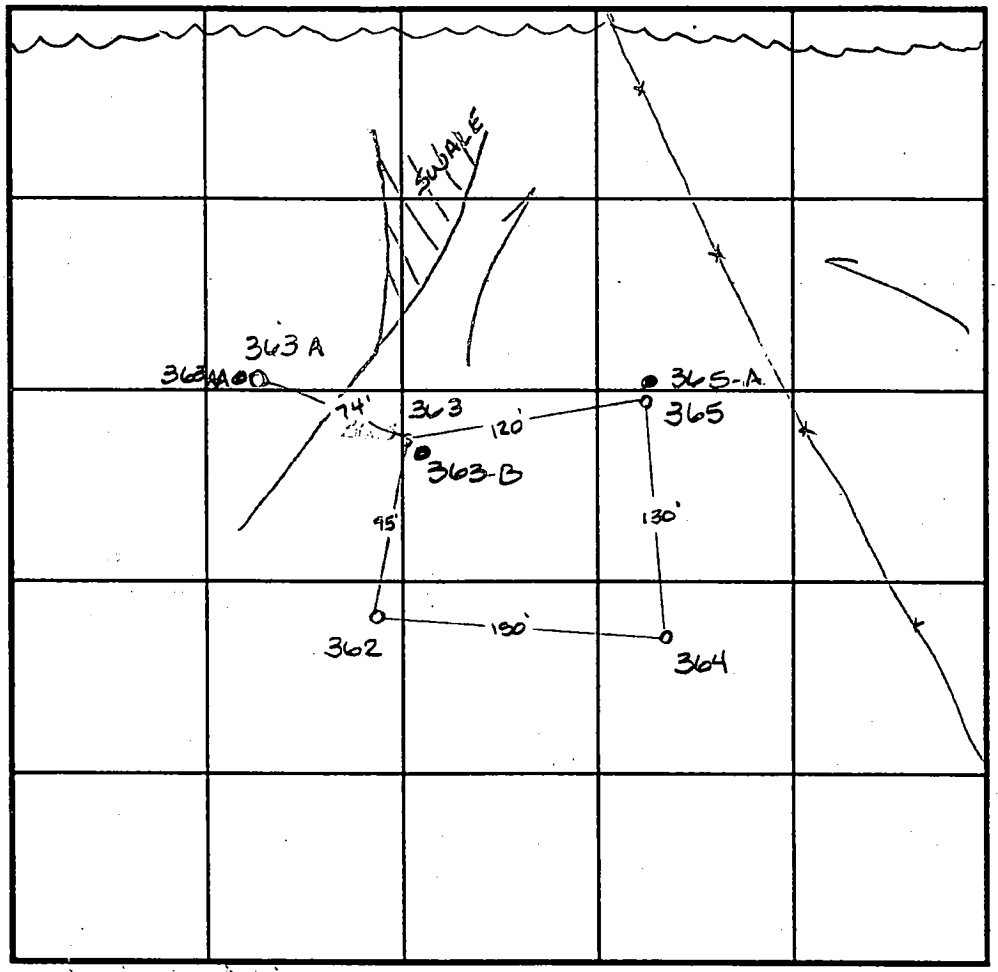
0'
- orange tan SiCLM
3.0
- lgt tan orange SaSiLm
8.0
- Possible mottled dull brn SiLm blk & orange splotches
12.0

363A

- orange brown SiCLM
3.0
- bright red SiLm
6.0
- orange brown SaLm 10% Rx
- mottling
11.0

363

- dark red SiCLM
3.0
- orange brown SiLm
6.0
- lgt tan SaLm possible mottling at bottom
12.0



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

364

0'
- dark red CLM
2.5
- lgt or tan SiLm
6.5
- white SiLm turning more greyish toward bottom
12.5

362

- red brn SiCLM
4.0
- orange red SaSiLm
12.5

DATE	TEST NO.	DEPTH	PRE-WET START	PRE-WET STOP	TEST - 1" DROP START	TEST - 1" DROP STOP	TIME	
11-6-97	365	4.0 / V12.0	8:32 30	8:38 30	8:38 30	8:42	3½min	W
	363A	4.0 / V11.0	8:19	8:27	8:27	8:52	25min	W
	363	4.5 / V12.0	8:25 30	8:29	8:29	8:40	11min	W
	364	4.0 / V12.5	8:46	>30	min		slow	W
	362	3.0 / V12.5	8:53	>30	min		slow	
		7.0 / V12.5	8:50	8:52	8:52	9:00	8min	

REMARKS Wet Season

TYPE OF SOIL

TESTED BY Amy McMillen ALSO PRESENT Sam / Mike

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT/BEDROOM _____

LOT 17

COUNTY #

SOIL PROFILE

365

0' orange brown SiCLm

3.0 lgt tan brn SiSaLm pockets of yellow

9.0 lgt chroma grey matrix many mottles

12.0

363B

heavy red CLm

6.0 lgt tan orange SiSaLm 10% Rv

12.0

363-A

heavy red CLm perched H_2O table

3.0 lgt or brown SiLm

8.0 dull greenish or brown SiLm may indicate H_2O

12.0

see attached for diagram

SOIL PROFILE

0'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET START	PRE-WET STOP	TEST - 1" DROP START	TEST - 1" DROP STOP	TIME
2-9-98	365	Visual	to 12.0				OK
	363B	Visual	to 12.0				OK
	363A	Visual	to 12.0				OK

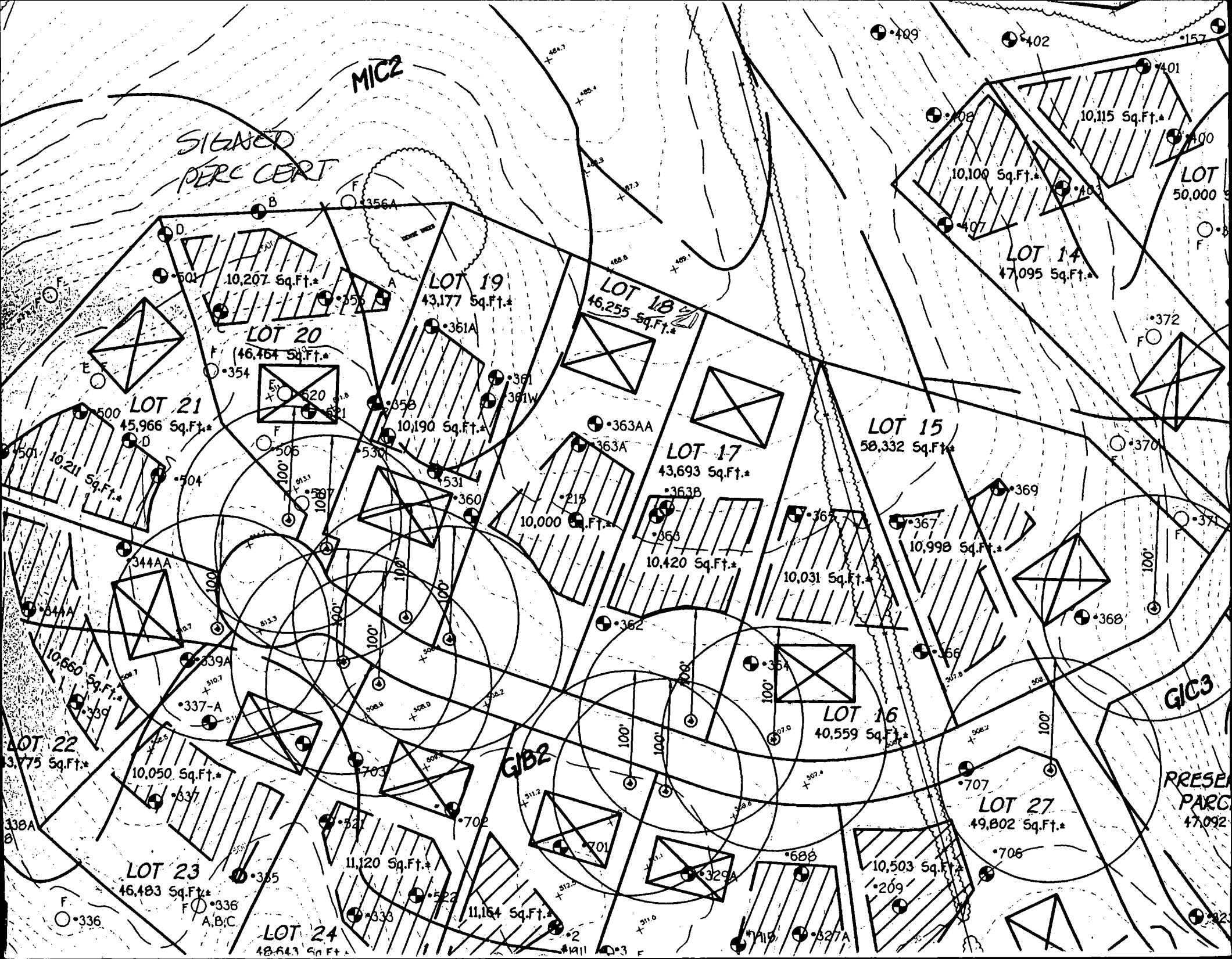
REMARKS _____

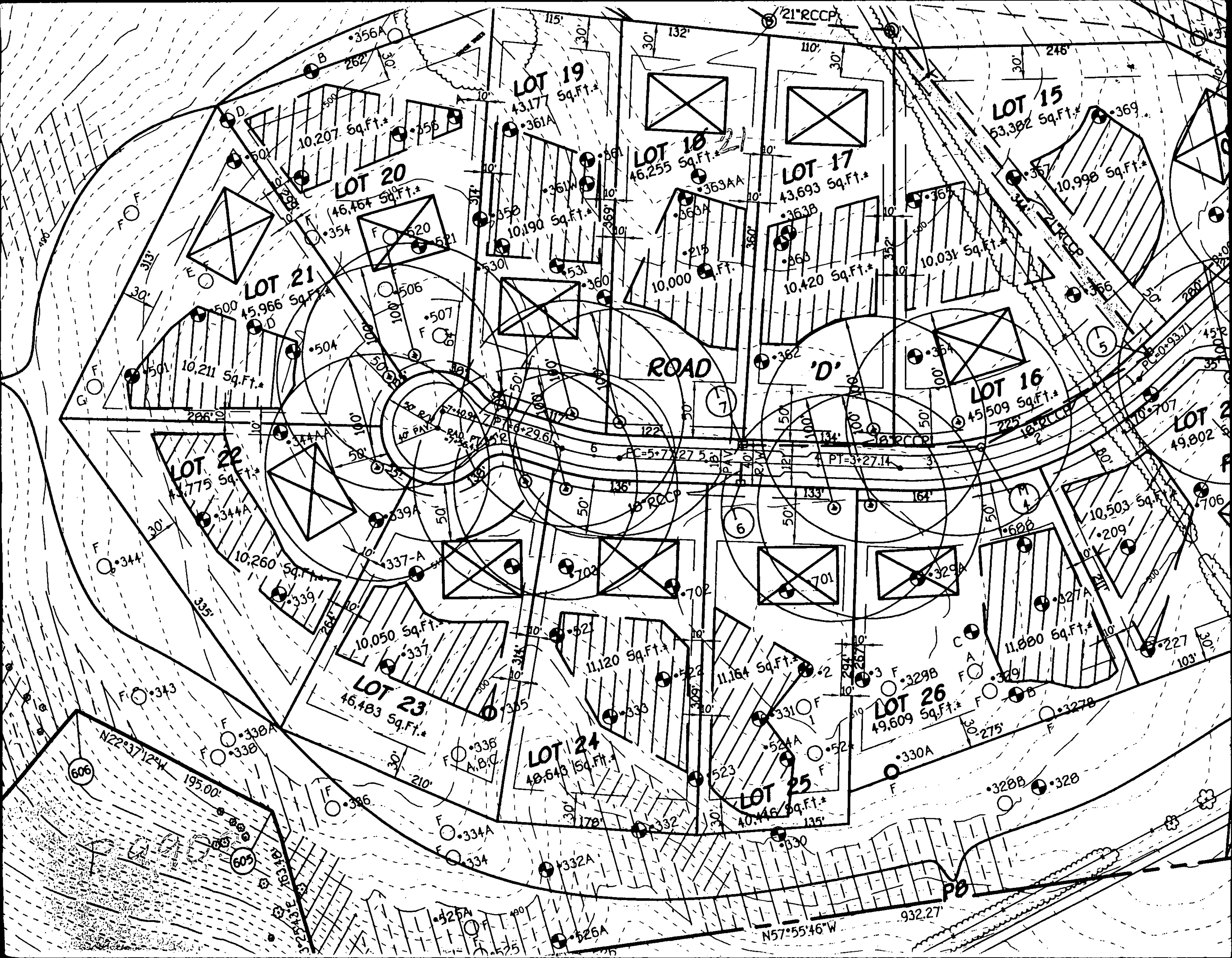
TYPE OF SOIL _____

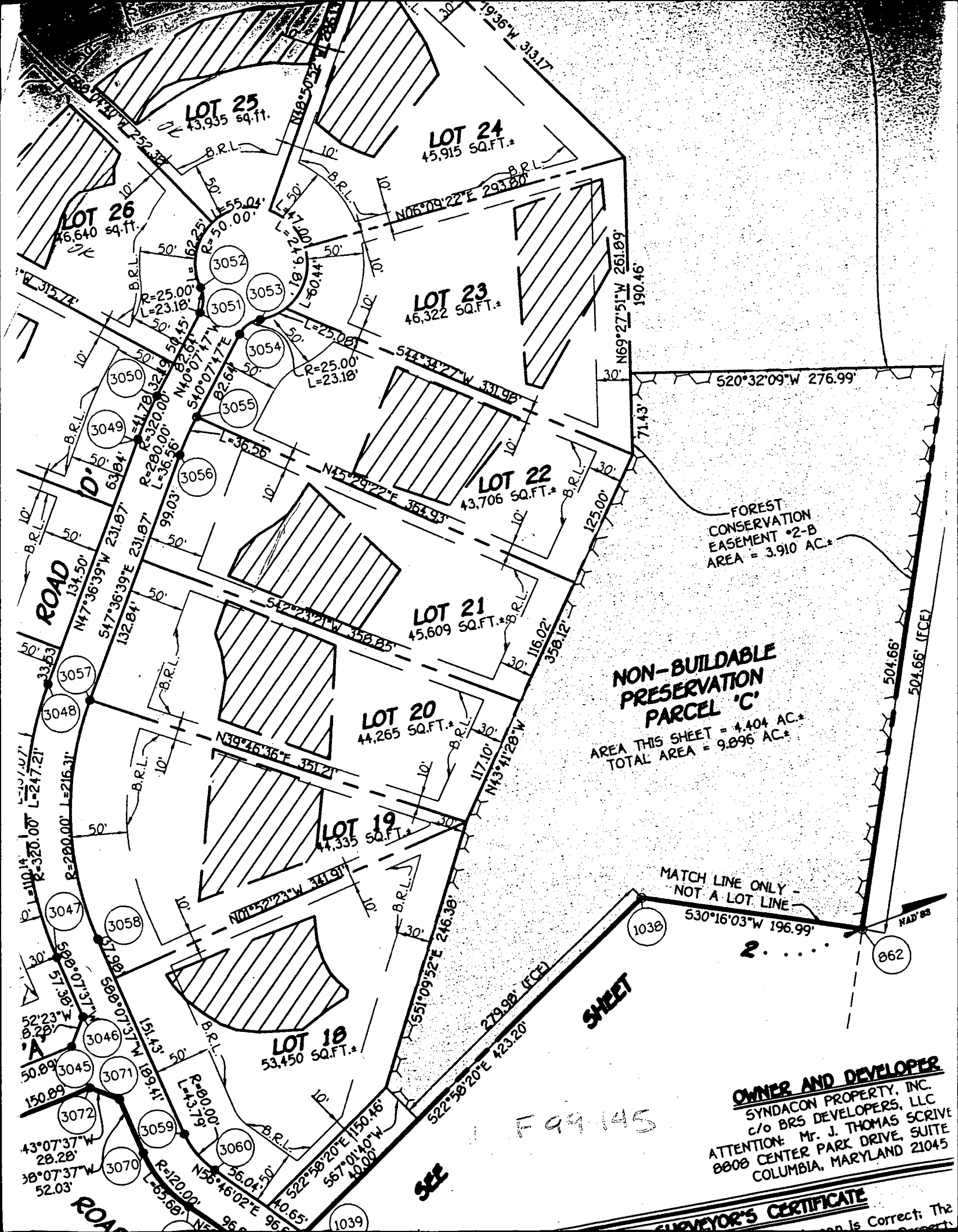
TESTED BY Amy McMillen ALSO PRESENT _____

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT/BEDROOM _____


MIC2
SIGNED
PERC CERT
LOT 19
43,177 Sq.Ft.±
LOT 20
46,464 Sq.Ft.±
LOT 21
45,966 Sq.Ft.±
LOT 18
46,255 Sq.Ft.±
LOT 17
43,693 Sq.Ft.±
LOT 15
58,332 Sq.Ft.±
LOT 14
47,095 Sq.Ft.±
LOT 16
40,559 Sq.Ft.±
LOT 27
49,802 Sq.Ft.±
LOT 23
46,483 Sq.Ft.±
LOT 24
10,207 Sq.Ft.±
10,211 Sq.Ft.±
10,190 Sq.Ft.±
10,000 Sq.Ft.±
10,420 Sq.Ft.±
10,031 Sq.Ft.±
10,998 Sq.Ft.±
10,115 Sq.Ft.±
10,100 Sq.Ft.±
10,660 Sq.Ft.±
10,050 Sq.Ft.±
11,120 Sq.Ft.±
11,164 Sq.Ft.±
10,503 Sq.Ft.±
GIB2
GIC3
100'


LOT 15
53,382 Sq.Ft.±
LOT 16
45,509 Sq.Ft.±
LOT 17
43,693 Sq.Ft.±
LOT 18
46,255 Sq.Ft.±
LOT 19
43,177 Sq.Ft.±
LOT 20
46,464 Sq.Ft.±
LOT 21
45,966 Sq.Ft.±
LOT 22
43,775 Sq.Ft.±
LOT 23
46,483 Sq.Ft.±
LOT 24
48,643 Sq.Ft.±
LOT 25
40,446 Sq.Ft.±
LOT 26
49,609 Sq.Ft.±
ROAD 'D'
21"RCCP
18"RCCP
10,207 Sq.Ft.±
10,190 Sq.Ft.±
10,000 Sq.Ft.
10,420 Sq.Ft.±
10,031 Sq.Ft.±
10,998 Sq.Ft.±
10,211 Sq.Ft.±
10,260 Sq.Ft.±
10,050 Sq.Ft.±
11,120 Sq.Ft.±
11,164 Sq.Ft.±
11,880 Sq.Ft.±
10,503 Sq.Ft.±
PC=5+77.27
PT=3+27.14
PT=6+29.61
PC=0+93.71
N22°37'12"W
195.00'
N57°55'46"W
932.27'



F94145

OWNER AND DEVELOPER

SYNDACON PROPERTY, INC.
c/o BRS DEVELOPERS, LLC
ATTENTION: Mr. J. THOMAS SCRIVE
8808 CENTER PARK DRIVE, SUITE
COLUMBIA, MARYLAND 21045

SURVEYOR'S CERTIFICATE

APPLICATION

PERCOLATION TESTING

A 513374

P _____

2 LOTS - PROPOSED ADJUSTMENT TO SEPTIC AREAS. WET SEASON TESTING REQUIRED. (CW)

DISTRICT _____

DATE 4/7/00

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER WILLIAMSBURG GROUP LLC

ADDRESS P.O. BOX 1018 COLUMBIA 21045 PHONE 410-997-8800

AGENT OR PROSPECTIVE BUYER BOB CORBETT EXT 112

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION Cattail Ridge LOT NO. 20 & 21

ROAD AND DESCRIPTION _____

TAX MAP _____ PARCEL # _____

SIZE OF LOT 1+ ACRE TYPE BLDG. SFD
(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. _____ 3/29/00
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

HD-216 (3/92)

COUNTY #

SOIL PROFILE

0'

(1)

orge l
cl lm

6

tan
sa lm
mottled
@ 10
13 damp
gr sd
15 WATER
15½

(2)

orge
cl &
cl lm

5-6

tan
sa lm
mottled
@ unacertain
depth
13 ~10"

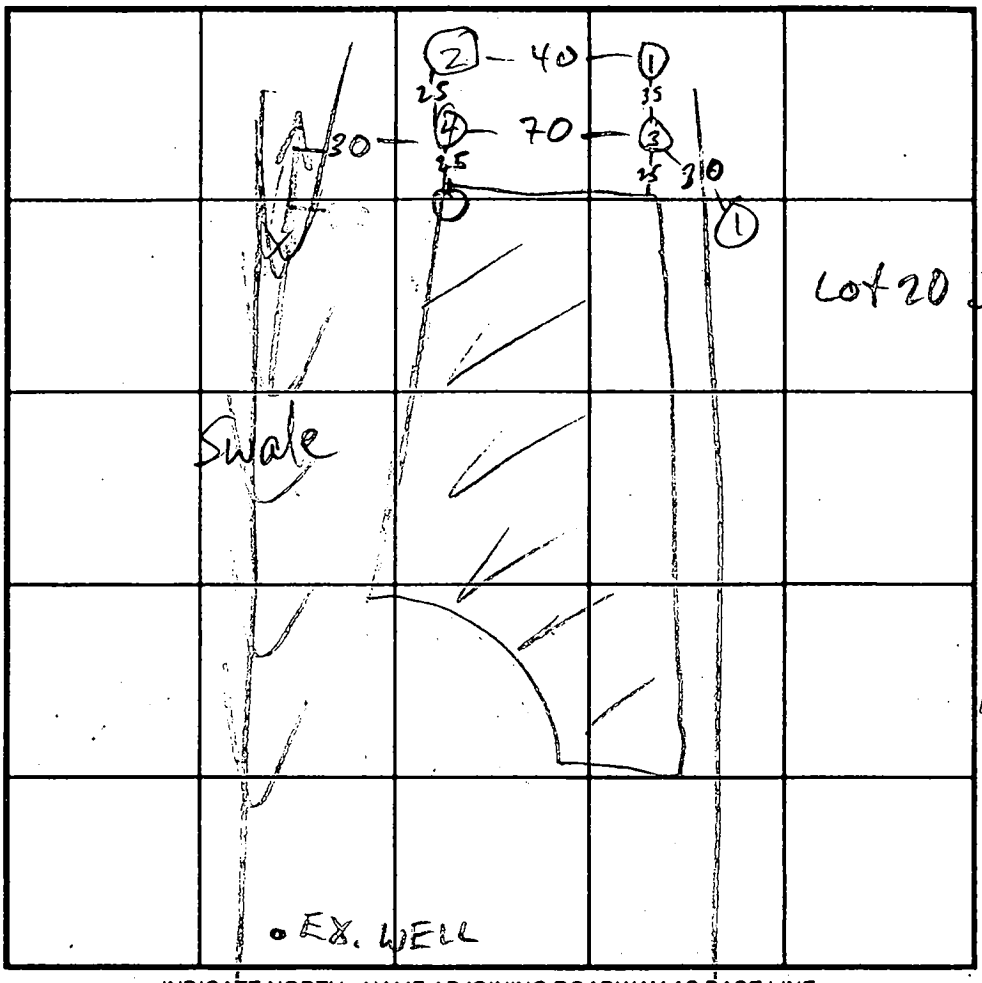
(3)

orge
cl lm

4½

gray
sa lm
25%
frags

13 3"



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

0'

(4)

orge
cl lm

5½

tan
orge
brn
sa lm
10-15%
frags

15½ DRY

55

40

DATE	TEST NO.	DEPTH	PRE-WET START	PRE-WET STOP	TEST - 1" DROP START	TEST - 1" DROP STOP	TIME
5/11/00	1	5½	11:17	11:19	11:19	11:21	2
	1	15½	H_2O 15'	damp @ 13, mottled @ 10'			
	2	-	11:32		TEST STOPPED DUE TO H_2O IN		
	2	13			ADJ. HOLE		
	3 S	5'	11:59	12:05	12:05	12:15	10 EST
	3 V	13'3"	OK see profile (faster below 6')				

REMARKS

TYPE OF SOIL

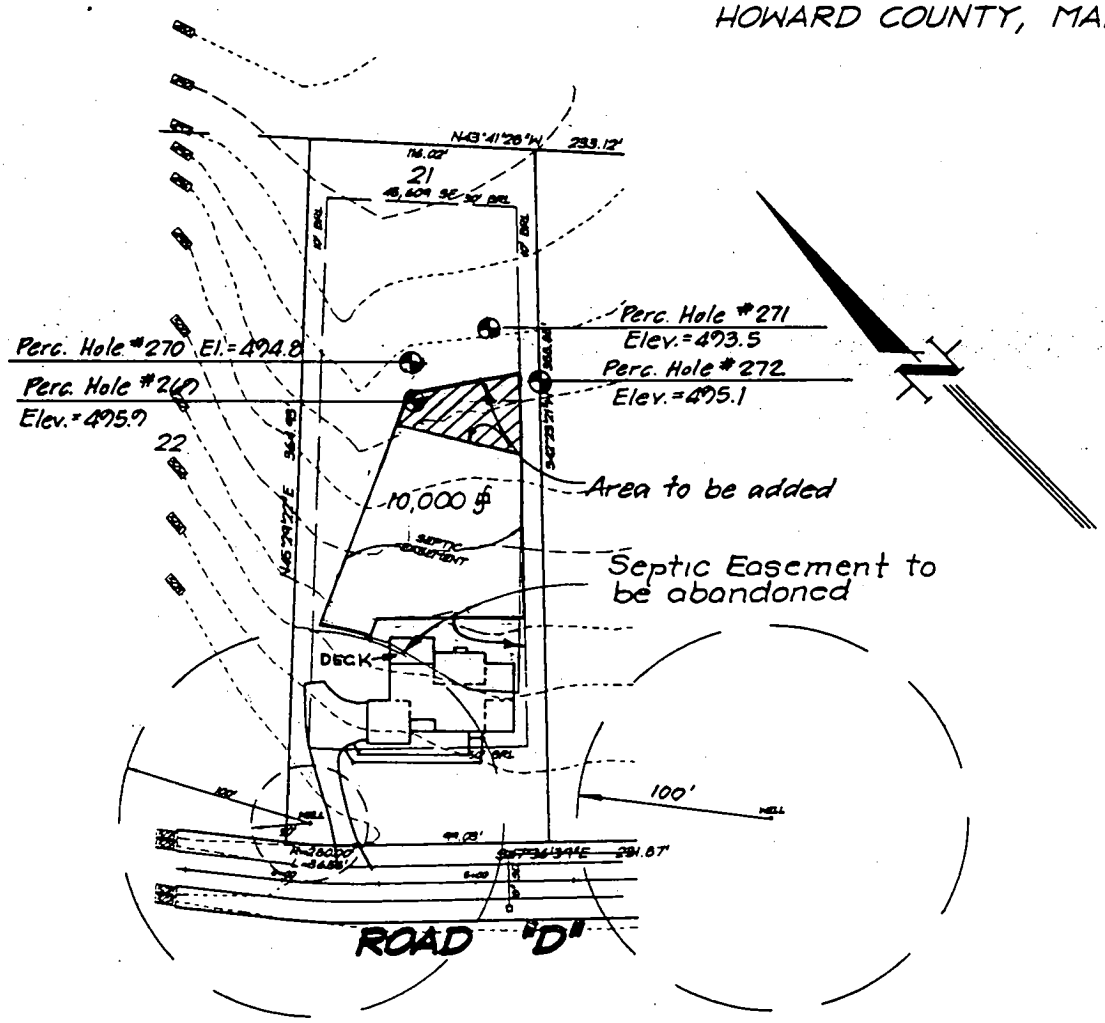
TESTED BY M. Rifkin ALSO PRESENT Bob Corbett, Hatfield

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT/BEDROOM _____

1' 11"
13 3

PERCOLATION CERTIFICATION
PLAT NO. 4681
LOT 21
CATTAIL RIDGE
Tax Map 21 & 228
(4th) Fourth Election District
HOWARD COUNTY, MARYLAND



▨ This Area designates a private sewage reserve of 10,000 square feet as required by the Maryland State Department of the Environment for individual sewage disposal. Improvements of any nature in this area are restricted until public sewage is available. These easements shall become null and void upon connection to a public sewage system. The county Health Officer shall have the authority to grant variances for encroachments into the private sewage easement. Recordation of a modified sewage easement shall not be necessary.

The Lots shown hereon comply with the minimum ownership width and lot areas as required by the Maryland State Department of the Environment.

Percolation areas and water wells for adjoining lots have been shown where pertinent.

APPROVED: for Private Water and Private Sewage Systems.

Dixie Matthews 7/5/00
COUNTY HEALTH OFFICER M.R. ALM DATE

FOR : WILLIAMSBURG BUILDERS
6551 Walnut Grove
Columbia, Maryland 21044

CLARK, FINEFROCK & SACKETT, INC.
ENGINEERS · PLANNERS · SURVEYORS
7135 MINSTREL WAY COLUMBIA, MARYLAND 21045
TELEPHONE: BALT. (410)381-7500 · WASH. (301)621-8100

DRAWN BY: ZAH	DATE: 5-22-00	SCALE: 1"=100'
CHECKED BY: J.M.E.	JOB NO.: 99-049	FILE NO.: 99-049-L
DESIGNED BY: J.M.E.		

C 1 | 1964 | SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND
WELL COMPLETION REPORT
FILL IN THIS FORM COMPLETELY
PLEASE TYPE

THIS REPORT MUST BE SUBMITTED AFTER WELL IS COMPLETED. OKSRm 1/31/00

COUNTY NUMBER A58993W

ST/CO USE ONLY
DATE Received MM DD YY

DATE WELL COMPLETED MM 9 DD 22 YY 99

Depth of Well 125 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO 94 2424

OWNER BRS Development / Cattail Overlook LLC (last name / first name)
STREET OR RFD Windy Path Ct TOWN Glenwood
SUBDIVISION Cattail Ridge SECTION LOT 21

WELL LOG
Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET FROM	FEET TO	check if water bearing
HARD TAN SANDSTONE	0	15	
GRAY GRANITE	15	125	
		54 ✓	
		90 ✓	
		120 ✓	

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes Y / no N

CIRCLE APPROPRIATE LETTER
- A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
- E ELECTRIC LOG OBTAINED
- P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. MWD 355
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. MWD 549
Max S. Jones
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box) yes Y / no N

TYPE OF GROUTING MATERIAL (Circle one)
CEMENT CM BENTONITE CLAY BC

NO. OF BAGS 5 NO. OF POUNDS 470
GALLONS OF WATER 30 gals.
DEPTH OF GROUT SEAL (to nearest foot)
from 0 (TOP) ft. to 20 (BOTTOM) ft.
(enter 0 if from surface)

CASING RECORD
casing types insert appropriate code below: ST STEEL, CO CONCRETE, PL PLASTIC, OT OTHER

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)	Total depth of main casing (nearest foot)
ST	06	20

OTHER CASING (if used)

EACH CASING	diameter inch	depth (feet) from	to

SCREEN RECORD
screen type or open hole insert appropriate code below: ST STEEL, BR BRASS BRONZE, PL PLASTIC, HO OPEN HOLE, OT OTHER

EACH SCREEN		DEPTH (nearest ft.)	
1	HO	20	125
2			
3			

SLOT SIZE 1 ____ 2 ____ 3 ____
DIAMETER OF SCREEN ____ (NEAREST INCH)

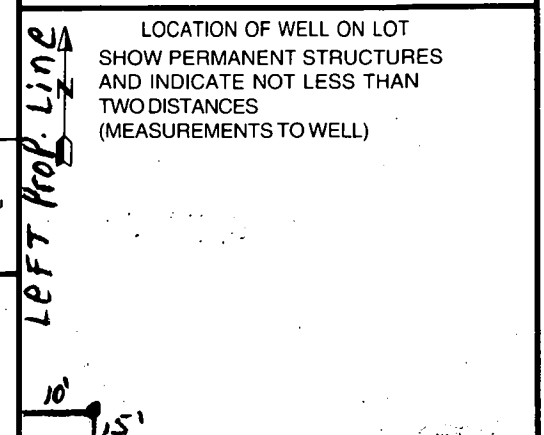
	from	to
GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68		

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)
T (E.R.O.S.) W Q
TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3 PUMPING TEST
HOURS PUMPED (nearest hour) 3
PUMPING RATE (gal. per min.) 20.
METHOD USED TO MEASURE PUMPING RATE Watch & Bucket
WATER LEVEL (distance from land surface)
BEFORE PUMPING 41' ft.
WHEN PUMPING 46' ft.
TYPE OF PUMP USED (for test)
A air, P piston, T turbine, C centrifugal, R rotary, O other (describe below), J jet, S submersible

PUMP INSTALLED
DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES / NO
IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29.
CAPACITY: GALLONS PER MINUTE (to nearest gallon)
PUMP HORSE POWER
PUMP COLUMN LENGTH (nearest ft.)
CASING HEIGHT (circle appropriate box and enter casing height) + above / – below LAND SURFACE 1 (nearest) foot

LOCATION OF WELL ON LOT
SHOW PERMANENT STRUCTURES AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)



DENV-CR97 ② COUNTY

EMERGENCY/TEMP NO. IF ANY

B 1 | 14101 | SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND
PERMIT TO DRILL WELL
please print or type

STATE PERMIT NUMBER: HO-94-2424 (fill in this form completely)

Date Received (APA): 083099

OWNER INFORMATION

CATTAIL OVERLOOK LLC (Last Name / Owner / First Name)

8808 CENTRE PARK DR. Suite 108 (Street or RFD)

Columbia MARYLAND 21045 (Town / State / Zip)

DRILLER INFORMATION

MICHAEL BARLOW MWD 355 (Driller's Name / License No.)

MICHAEL BARLOW WELL DRILLING SVC INC (Firm Name)

912 FAWN CT JOPPA MD 21085 (Address)

Signature: [signature] Date: 8/18/99

B 2 WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.): 5

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY): 500

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- (D) DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
- [F] FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION
- [I] INDUSTRIAL, COMMERICIAL, DEWATERING
- [P] PUBLIC WATER SUPPLY WELL
- [T] TEST, OBSERVATION, MONITORING
- [G] GEO-THERMAL

APPROXIMATE DEPTH OF WELL: 250 FEET

APPROXIMATE DIAMETER OF WELL: 6" NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) | JETTED | Jetted & DRIVEN

AIR-ROTary | AIR-PERcussion | ROTARY (Hydraulic Rotary)

CABLE | REVerse-ROTary | DRive-POINT

other

REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX)

- (N) THIS WELL WILL NOT REPLACE AN EXISTING WELL
- [Y] THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
- [S] THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
- [D] THIS WELL WILL DEEPEN AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE)

Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROP. PERMIT NUMBER: GAP

PERMIT No. HO-94-2424

B 3 LOCATION OF WELL

COUNTY: HOWARD

SUBDIVISION: CATTAIL RIDGE

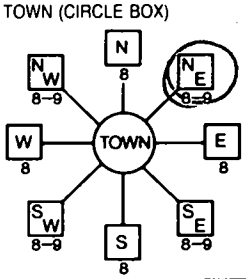
SECTION: | LOT: 21

NEAREST TOWN: ROXBURY

MILES FROM TOWN (enter 0 if in town): 2 MI

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



NEAR WHAT ROAD: Windy Path Court ~~ROAD D~~

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

DISTANCE FROM ROAD: 15 Ft (ENTER FT OR MI)

TAX MAP: ____ BLK: ____ PARCEL ____

NOT TO BE FILLED IN BY DRILLER
HEALTH DEPARTMENT APPROVAL

COUNTY NAME: Howard CO COUNTY NO.: A5899 3W

STATE SIGNATURE: _____ INSERT S

DATE ISSUED: 090799 A McMullen 9/7/00 (CO SIGNATURE / EXP. DATE)

NORTH GRID: 520 000 EAST GRID: 780 000

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER
1.
2.
3.

WRITE THE BOX NUMBER FROM THE MAP HERE

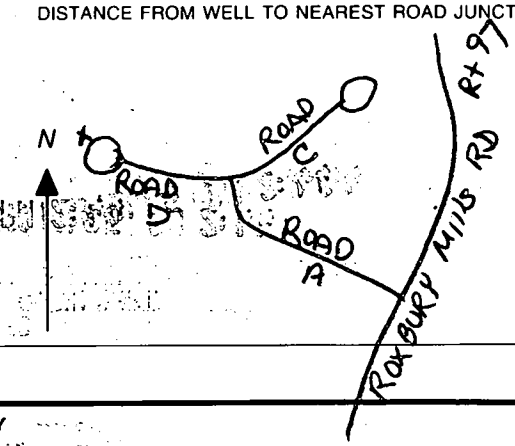
E 780

N 520

000
000

9/22/99 12:00 Grout
Driller said grout will be done late afternoon BB

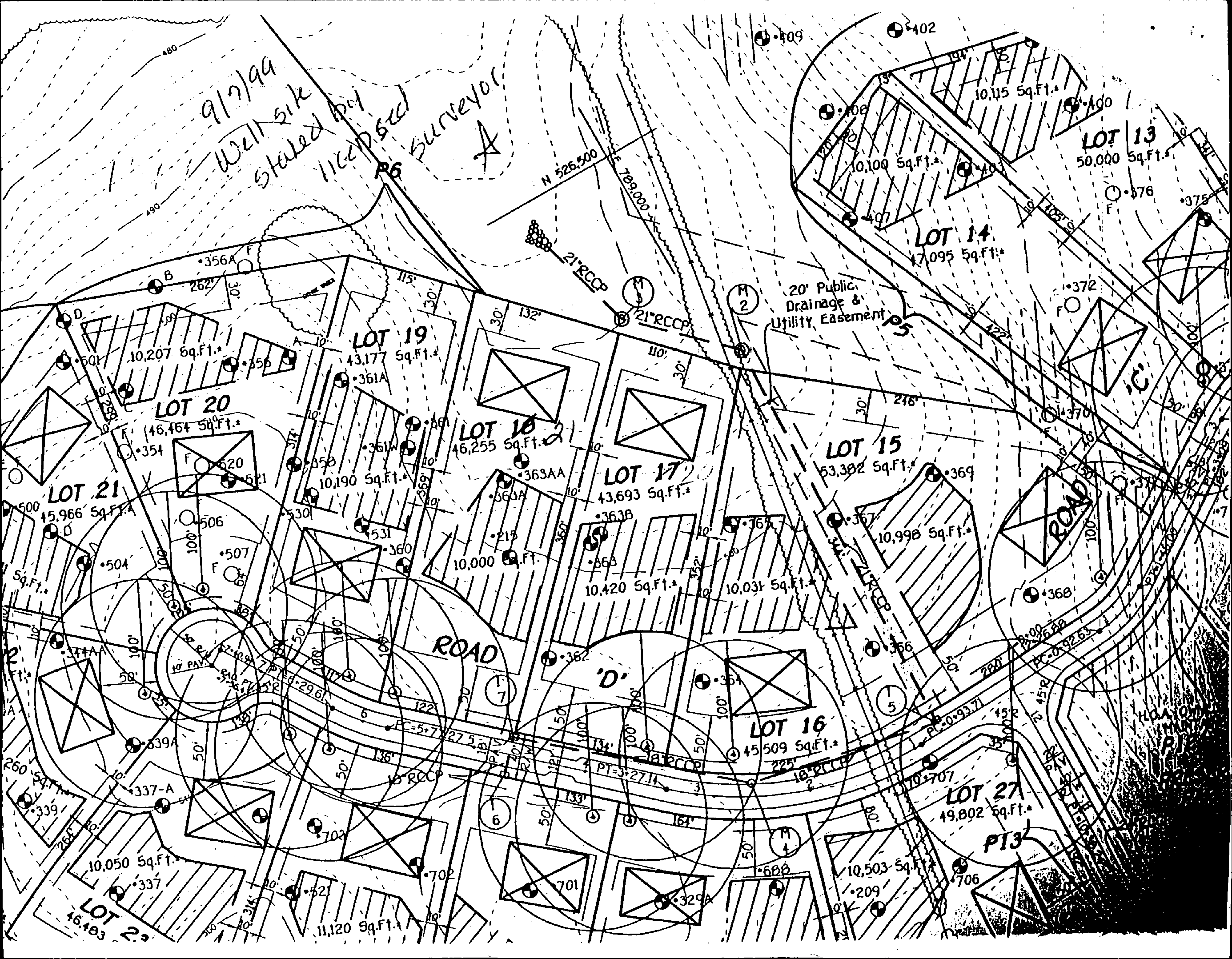
DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



SPECIAL CONDITIONS
NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED -

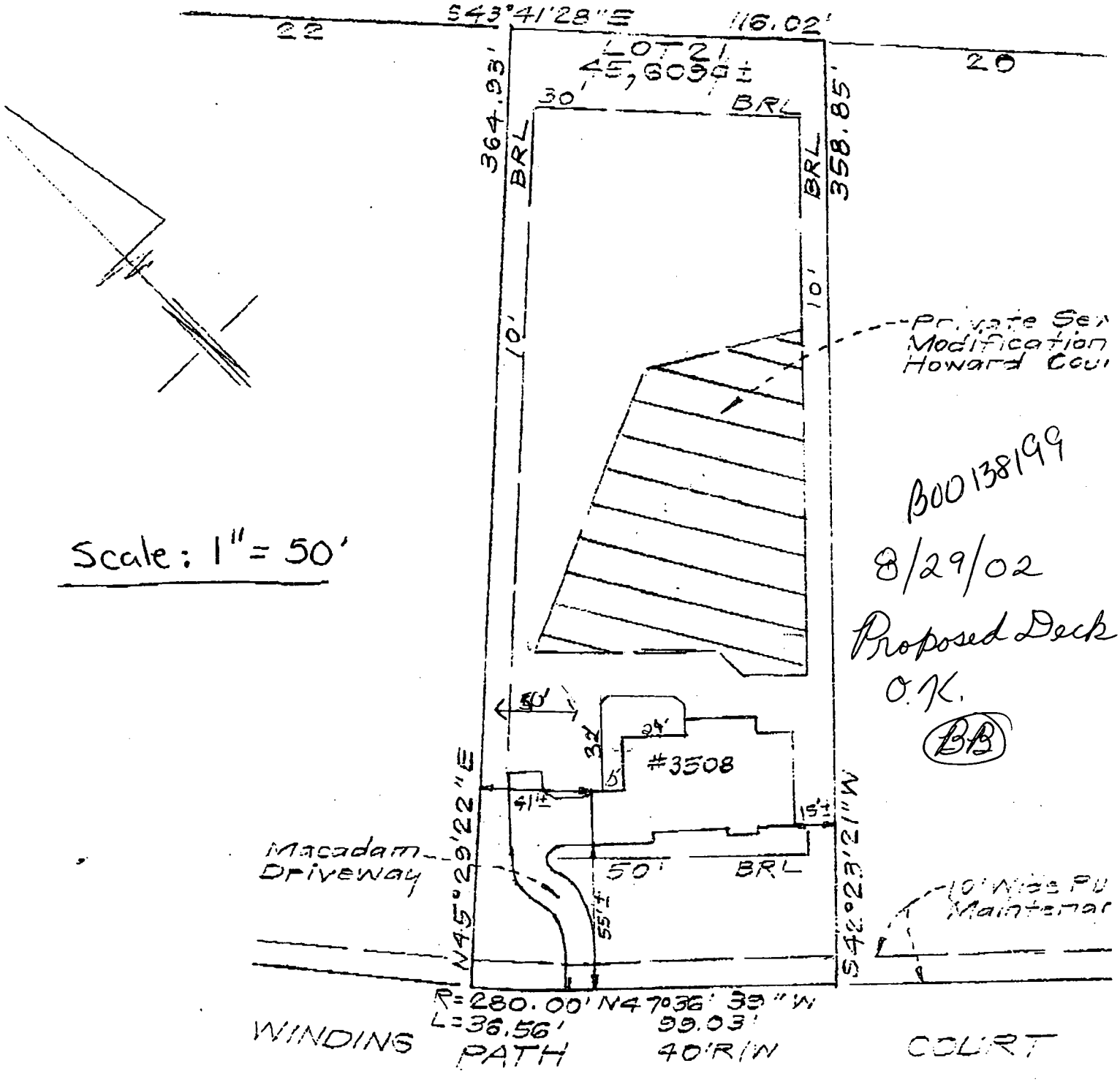
DENV-Permit 97

② COUNTY



9/7/99
Well site
staked by
licensed
surveyor
A
P6
P5
PT3
N 526,500
E 789,000
21" RCCP
20' Public Drainage & Utility Easement
LOT 13
50,000 Sq.Ft.±
10,115 Sq.Ft.±
10,100 Sq.Ft.±
LOT 14
47,095 Sq.Ft.±
LOT 15
53,382 Sq.Ft.±
10,998 Sq.Ft.±
LOT 16
45,509 Sq.Ft.±
LOT 17
43,693 Sq.Ft.±
10,420 Sq.Ft.±
10,031 Sq.Ft.±
LOT 18
46,255 Sq.Ft.±
10,000 Sq.Ft.
LOT 19
43,177 Sq.Ft.±
10,190 Sq.Ft.±
LOT 20
46,464 Sq.Ft.±
10,207 Sq.Ft.±
LOT 21
45,966 Sq.Ft.±
LOT 27
49,802 Sq.Ft.±
10,503 Sq.Ft.±
10,050 Sq.Ft.±
11,120 Sq.Ft.±
LOT 2
46,483
ROAD 'D'
ROAD 'C'
18" RCCP
PC=5+77.27
PT=3+27.14
PC=0+93.71
PC=0+92.63
HOA

NON-BUILDABLE PRESERVATION PARCEL 'C'



INFORMATION

Insurer only insofar as title insurance company contemplated transfer.

or for the establishment buildings or other existing