

LAYOUT 3/15/02 1:00 INSP 4 _____
INSP 2 3/19/02 2pm INSP 5 _____
INSP 3 3/22/02 2:30 INSP 6 _____

ISSUE DATE: 3/11/2002

APPROVAL DATE: 3/22/02

PERMIT
INDEXED

RPC# 337138

P 516866-E

A 510571-C

ON-SITE SEWAGE DISPOSAL SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH

South Carroll Backhoe, Inc. IS PERMITTED TO INSTALL ALTER

ADDRESS: 4410 Salem Bottom Rd., 21157 PHONE NUMBER: 410-875-4197

SUBDIVISION: Brantwood 3/1 LOT NUMBER: 3

ADDRESS: 3047 Seneca Chief Trail PROPERTY OWNER: NVR, Inc

SEPTIC TANK CAPACITY (GALLONS): 1250 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): N/A COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: 180

LINEAR FEET OF TRENCH REQUIRED: 240

BUILDING PERMIT SIGNED

AND RETURNED

61203 BOD 142404 DECK

TRENCHES:	Trench to be 3.0 feet wide. Inlet 2.0 feet below original grade. Bottom maximum depth 4.0 feet below original grade. Effective area begins at 3.0 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION:	Place the distribution box 125 feet from the rear lot line and 120 feet from the left 221' lot line.
NOTES:	

PLANS APPROVED: Brian Baker *OKSRU 3/11/02* DATE: 12/11/01

- NOTE: PERMIT VOID AFTER 2 YEARS
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED

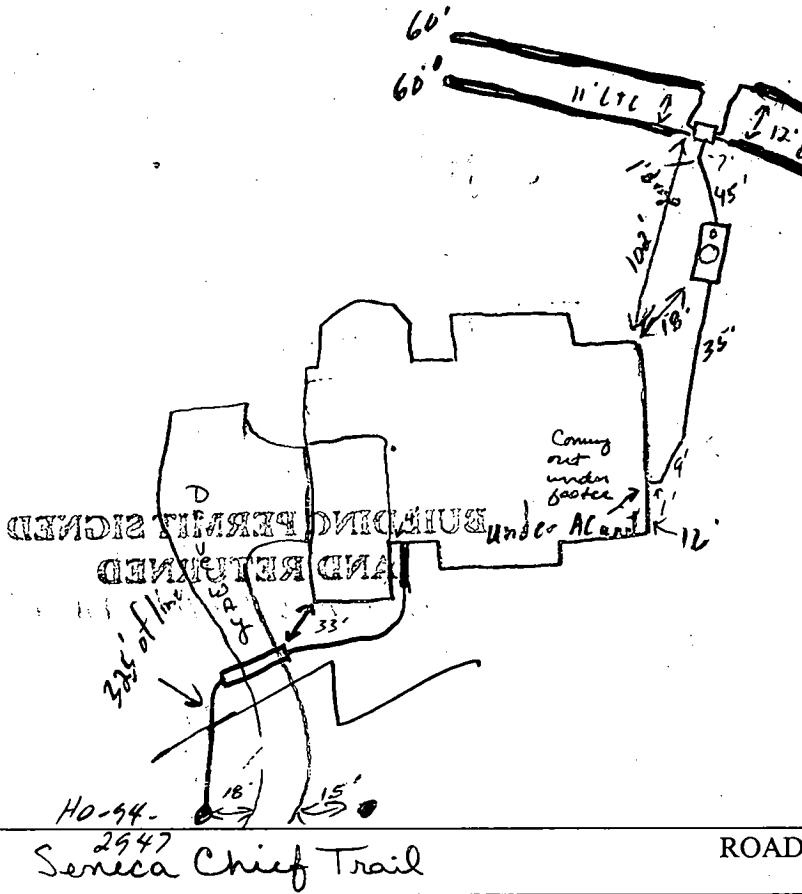
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT CALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

A510571-C

NOT TO SCALE

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	2'	4'
NUMBER OF TRENCHES		4
TOTAL LENGTH		240'
ABSORPTION AREA		720 sq
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		—

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	YES
CAPACITY	1500 GAL
SEAM LOC	TS
TANK LID DEPTH	6"
BAFFLES	YES
BAFFLE FILTER	No
MANHOLE LOC	Center
6" PORT LOC	Front
WATERTIGHT TEST	N/A
SEPTIC TANK 2 LEVEL	NA
CAPACITY	— GAL
SEAM LOC	—
TANK LID DEPTH	—
BAFFLES	—
BAFFLE FILTER	—
MANHOLE LOC	—
6" PORT LOC	—
WATERTIGHT TEST	—



PRE-CONSTRUCTION 3/15/02 Topo correct, STAKED, Begin per plan (CG)

3/19/02 OK to move D.B. 5' out of SRA (SO)

INSTALLATION 3/19/02 OK to cover up to ST. (SO)

3/22/02 OK to cover all work (SO)

FINAL INSPECTOR [Signature] DATE OF APPROVAL 3/22/02

Approved Septic System Plan

Howard County Health Department

5. The topography shown assumes proposed contours from the F31-67 plan are existing.
 6. Driveway Entrance per Howard County Volume IX Standard Detail R 6 06.

Brian Baker
 Signature
 12/11/01
 Date
 1" = 60'

LEGEND

- 522 EX. 25' CONTOUR
- 520 PROP. 5FT CONTOUR
- 520 EX. 10FT CONTOUR
- DIRECTION OF DRAINAGE
- SEPTIC AREA
- EX. TREES
- EX. TREES TO REMAIN
- SSF SUPER SILT FENCE
- SF SILT FENCE
- LIMIT OF DISTURBANCE
- ECM EROSION CONTROL MATTING
- STABILIZED CONSTRUCTION ENTRANCE

SEPTIC SYSTEM DESIGN DATA:

1. Invert at Foundation Wall: 467.50
2. 1500 Gallon Septic Tank (4 BR. Provide manholes to grade)
 Existing Ground over Tank: 469.50
 Proposed Grade over Tank: 469.50
 Invert In: ~~467.0~~ 467.3
 Invert Out: ~~467.0~~ 467.0
3. Distribution Box (4 Outlets Minimum)
 Existing Ground Over Box: 462.00
 Proposed Grade Over Box: 462.00
 Invert In: 459.00
4. Trench Design:
 (Per Health Department Septic Specifications)
 = 180 SF per Bedroom x 4 Bedrooms = 720 SF
 = 720 SF ÷ 3 ft Trench Width
 = 240 LF of Trench REQ.

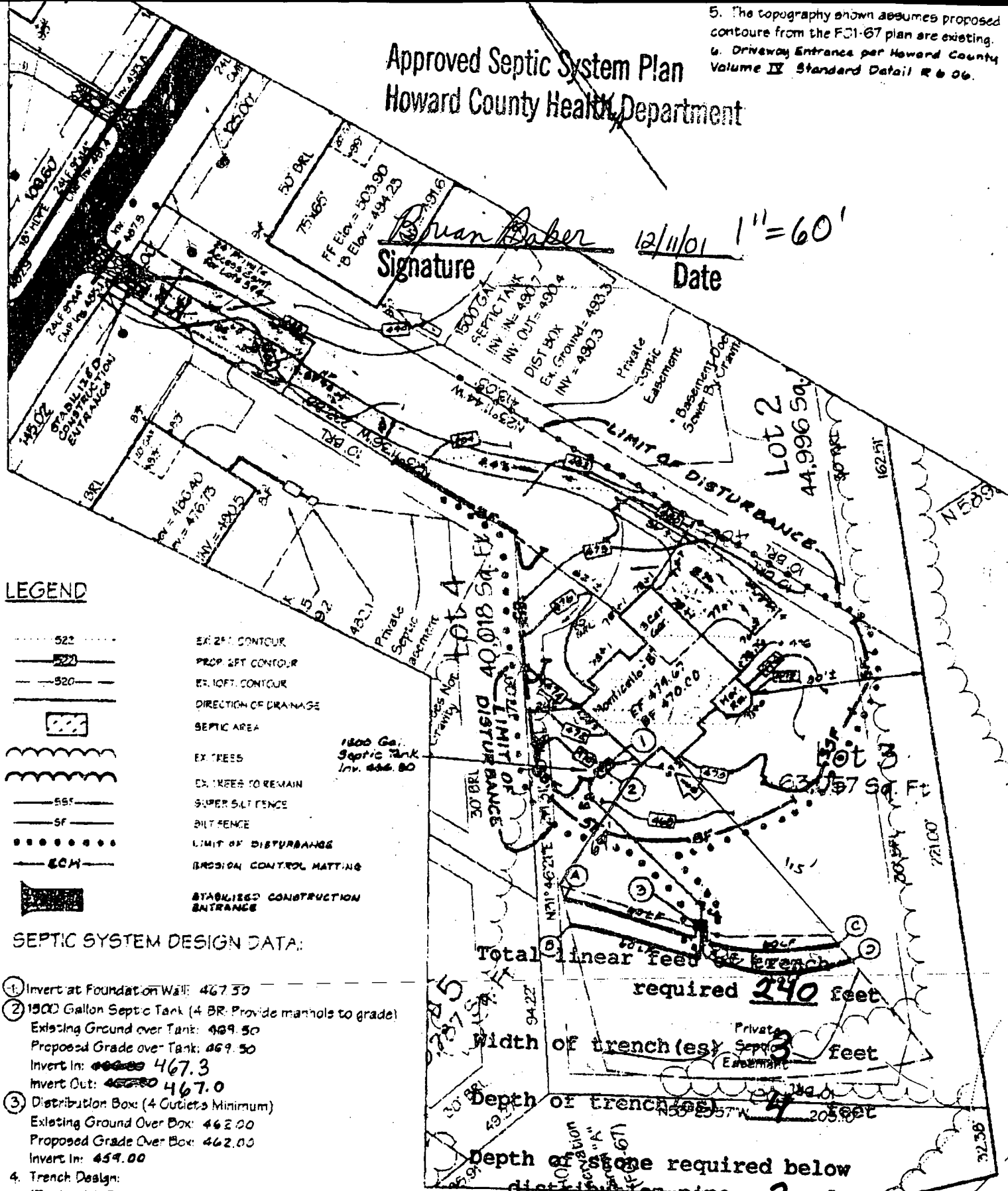
	(A)	(B)	(C)	(D)
Ex. Ground over Trench:	461.00	459.50	461.00	460.00
Invert Trench:	458.00	456.50	458.00	457.00
Bottom Trench:	456.00	454.50	456.00	455.00
Length of Trench:	20'	20'	20'	20'

Total linear feet of trench required **240** feet
 Width of trench (est) **3** feet
 Depth of trenches **4** feet
 Depth of stone required below distribution pipe **2** feet
 Revised 11/13/01 Relocate Septic System

SCALE 1" = 50'

REVISED DATE 11/9/01

PLOT PLAN for BUILDING PERMIT
 LOT 3 - #3047 Seneca Chief Trail



PROPERTY KNOWN AS: **LOT 3**

THIS PLAT CAN NOT BE USED TO ESTABLISH PROPERTY LINES OR CORNERS.

- BRANTWOOD

SECTION THREE - AREA ONE

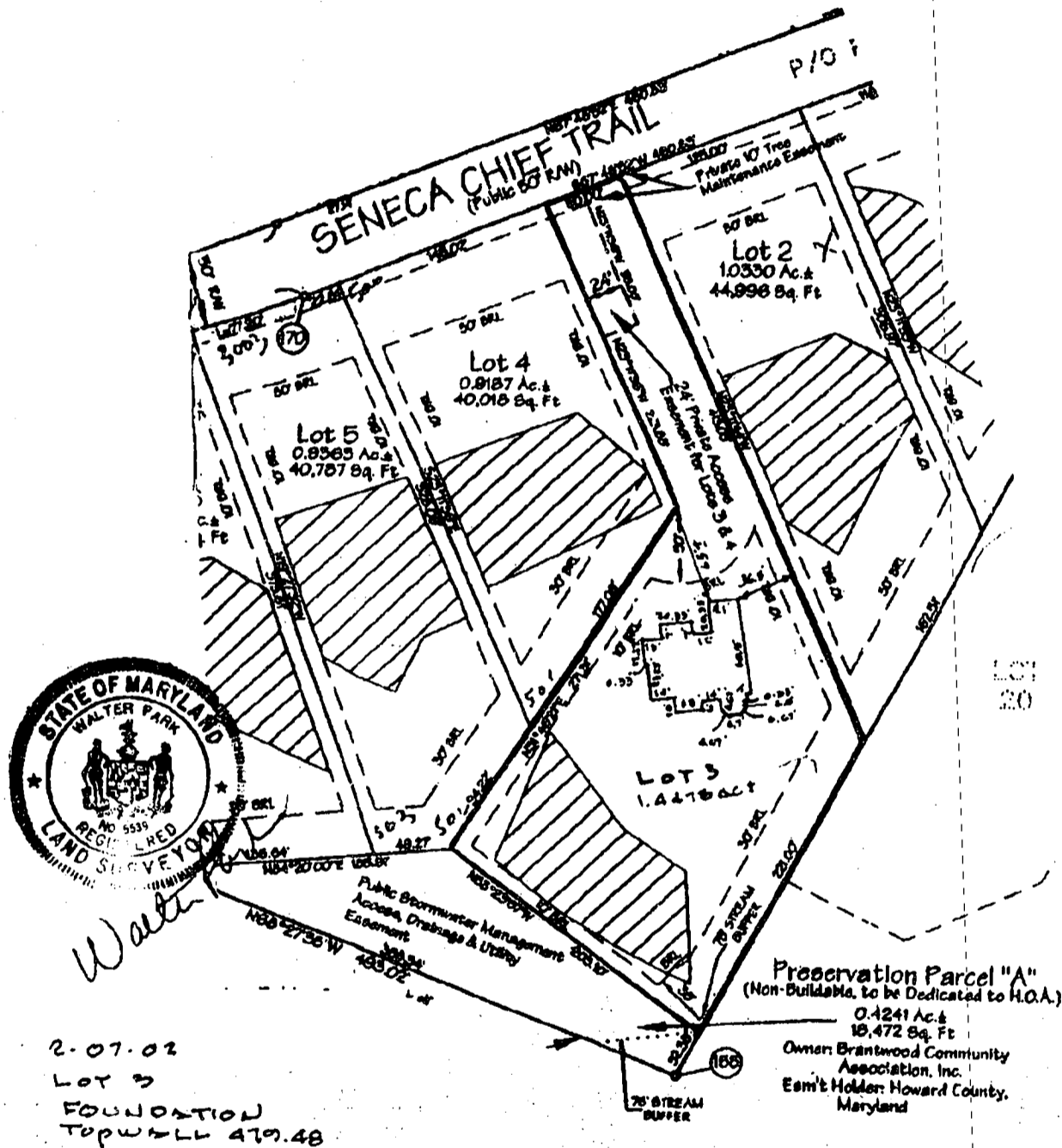
LOTS 1-16, PRESERVATION PARCELS "A" THROUGH "D"

PROFESSIONAL DISTRICT

HOWARD COUNTY, MD

PLAT 14870

3/11/02 -
Wall Check OK
SRU



LOCATION DRAWING

CERTIFICATION

This is to certify that I have surveyed the property known as:
SENECA CHIEF TRAIL

The information shown has been established by current acceptable survey procedures and from available record information. This drawing is to be used for Title Transfer Financing, or Refinancing Only and IS NOT to be used for the Establishment of Property Lines, Location for Fences, Garages, Buildings, or other Existing or Future Improvements.

SEAL



SCALE 1" = 100'

DATE 2-24-02

LDE Inc.

9250 Rumsey Road Suite 106
Columbia, Maryland 21045

(410) 715-1070 (Balt.)
(301) 596-3424 (Wash.)
(410) 715-9540 (Fax)

C1 8241 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

FILL IN THIS FORM COMPLETELY PLEASE TYPE

COUNTY NUMBER

ST/CO USE ONLY DATE RECEIVED MM DO YY

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

04-10-01

575 (TO NEAREST FOOT)

12/12/01 OK

HO-94-2947

OWNER BRANTWOOD LLC STREET OR RFD SENECA CHIEF TRAIL TOWN ELICOTT CITY SUBDIVISION BRANTWOOD SECTION 3/1 LOT 3

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Brown silt soil, weathered tanish orange & gray rock, med hard gray green & white limestone & much rock.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM), NO. OF BAGS (11), NO. OF POUNDS (1234), GALLONS OF WATER (46), DEPTH OF GROUT SEAL (0 to 45 ft).

CASING RECORD: casing types insert appropriate code below (PL), MAIN CASING TYPE (PL), Nominal diameter top (main) casing (6 inch), Total depth of main casing (45 foot).

OTHER CASING (if used) diameter inch, depth (feet) from to

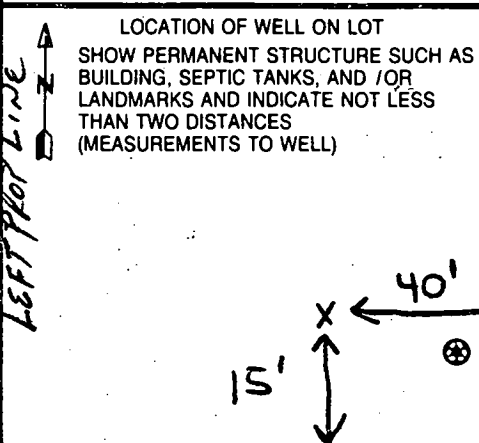
SCREEN RECORD: screen type or open hole (ST), insert appropriate code below

PUMPING TEST: HOURS PUMPED (6), PUMPING RATE (3 gal. per min.), METHOD USED TO MEASURE PUMPING RATE (WATCH & BUCKET), WATER LEVEL (69 ft before, 22 ft when pumping), TYPE OF PUMP USED (submersible).

PUMP INSTALLED: DRILLER INSTALLED PUMP (YES), TYPE OF PUMP INSTALLED (S), CAPACITY: GALLONS PER MINUTE (31), PUMP HORSE POWER (37), PUMP COLUMN LENGTH (43), CASING HEIGHT (2 ft).

NUMBER OF UNSUCCESSFUL WELLS: 0, WELL HYDROFRACTURED (Y), CIRCLE APPROPRIATE LETTER (A, E, P)

DEPTH (nearest ft.) HO 45' 575', SLOT SIZE 1 2 3, DIAMETER OF SCREEN (NEAREST INCH) 56 60



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...

DRILLERS LIC. NO. MWD 355, DRILLERS SIGNATURE, LIC. NO. MWD 546, SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER): TELESCOPE CASING, LOG INDICATOR, OTHER DATA

B 1 03008

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

STATE PERMIT NUMBER

Ho-94-2947

please print or type

fill in this form completely

1/16/01 Date Received (APA)

6 NCK LIPARINI OWNER INFORMATION

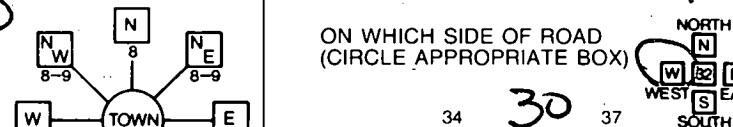
BRANTWOOD L.L.C. 8835-P Columbia 100 Parkway Columbia MD 21045

B 3 Howard LOCATION OF WELL BRANTWOOD mayfield

DRILLER INFORMATION Michael Barlow MD 355

Michael Barlow Well Drilling Co 502 Underwood Lane Bel Air MD

B 4 Serenca Chief road Butterfruit Way



WELL INFORMATION APPROX. PUMPING RATE 5 AVERAGE DAILY QUANTITY NEEDED 500

ON WHICH SIDE OF ROAD 30 DISTANCE FROM ROAD ENTER FT OR MI

- USE FOR WATER (CIRCLE APPROPRIATE BOX) DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL HOWARD CO A-510571C

APPROXIMATE DEPTH OF WELL 300 FEET APPROXIMATE DIAMETER OF WELL 6" INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X 3/27/01 x 11:00

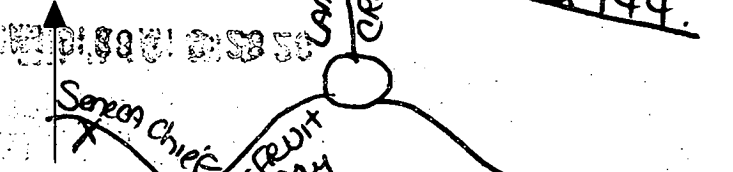
METHOD OF DRILLING (circle one) AIR-ROTARY AIR-PERCUSSION ROTARY

SOURCES OF DRILLING WATER 1. 2. 3.

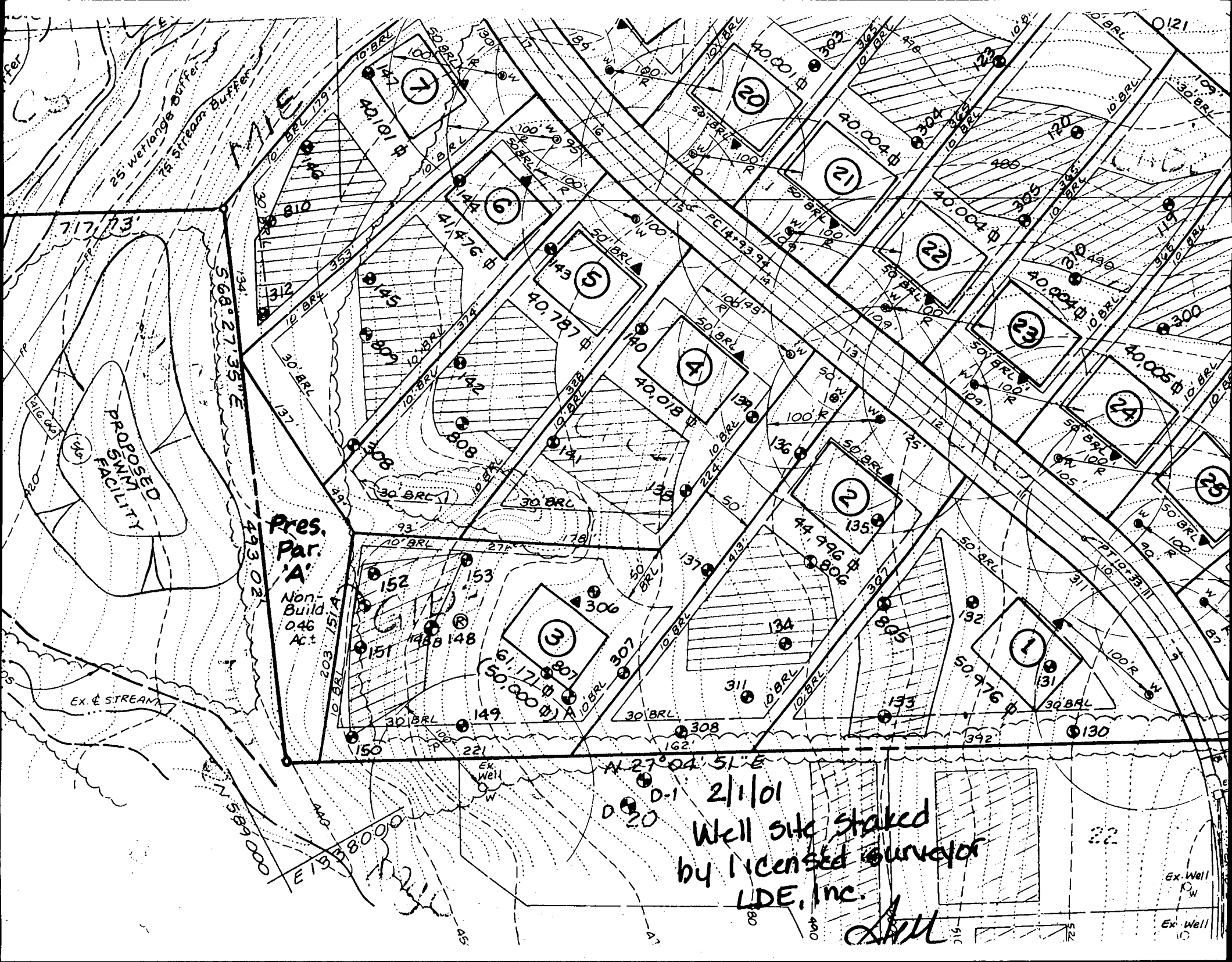
REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX) THIS WELL WILL NOT REPLACE AN EXISTING WELL

WRITE THE BOX NUMBER FROM THE MAP HERE E 820 N 520

Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER Ho 98 GAP 6003(2) PERMIT No. Ho-94-2947



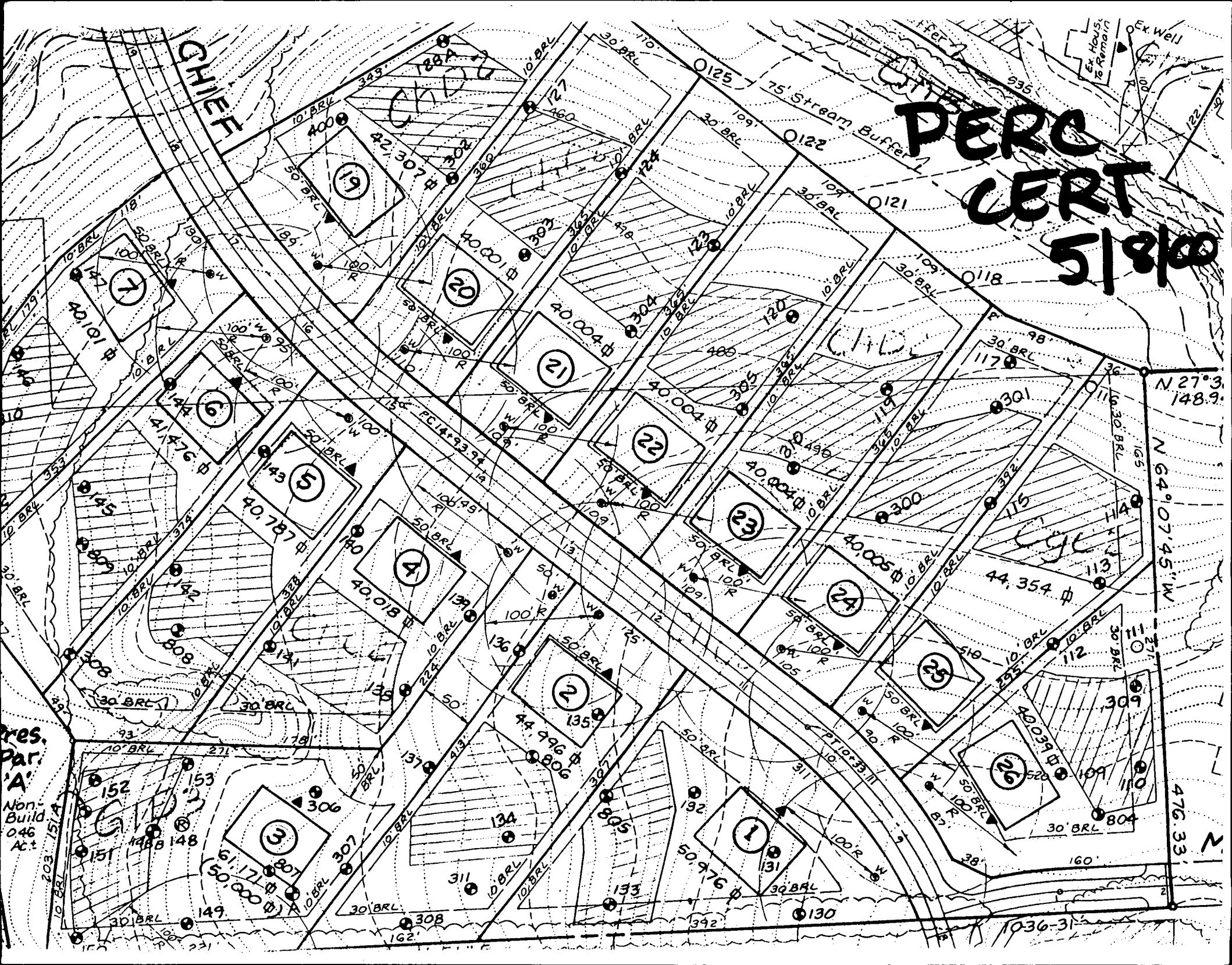
SPECIAL CONDITIONS NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED



Well site staked
 by licensed surveyor
 LDE, Inc.

Signature

Ex. Well
 W
 Ex. Well
 W



PERC
CERT
5/8/00

CHIEF

Pres.
par
'A'
Non-
Build
046
Act

1036-31

476.33

N 27° 3.148.9

N 64° 07' 45" W

CHIEF

44.354 φ

61.171 φ
(50.000 φ)

44.996 φ

50.976 φ

40.039 φ

40.787 φ

40.004 φ

40.004 φ

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APPLICATION

PERCOLATION TESTING

A 510571N

P _____

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

DISTRICT _____

DATE 7/17/98

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 George A. Garbutt

ADDRESS 11363 Frederick Rd., Ellicott City, MD 21042 PHONE _____

AGENT OR PROSPECTIVE BUYER Heritage Land Development

ADDRESS 3243 Bethany Lane, Ellicott City, MD 21042 PHONE 410-313-8808

PROPERTY LOCATION:

SUBDIVISION Brantwood II LOT NO. 43

ROAD AND DESCRIPTION 11363 Frederick Road, Ellicott City, MD 21042

TAX MAP 16 PARCEL # 172

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. _____ ✓

[Signature]
(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

510571 N

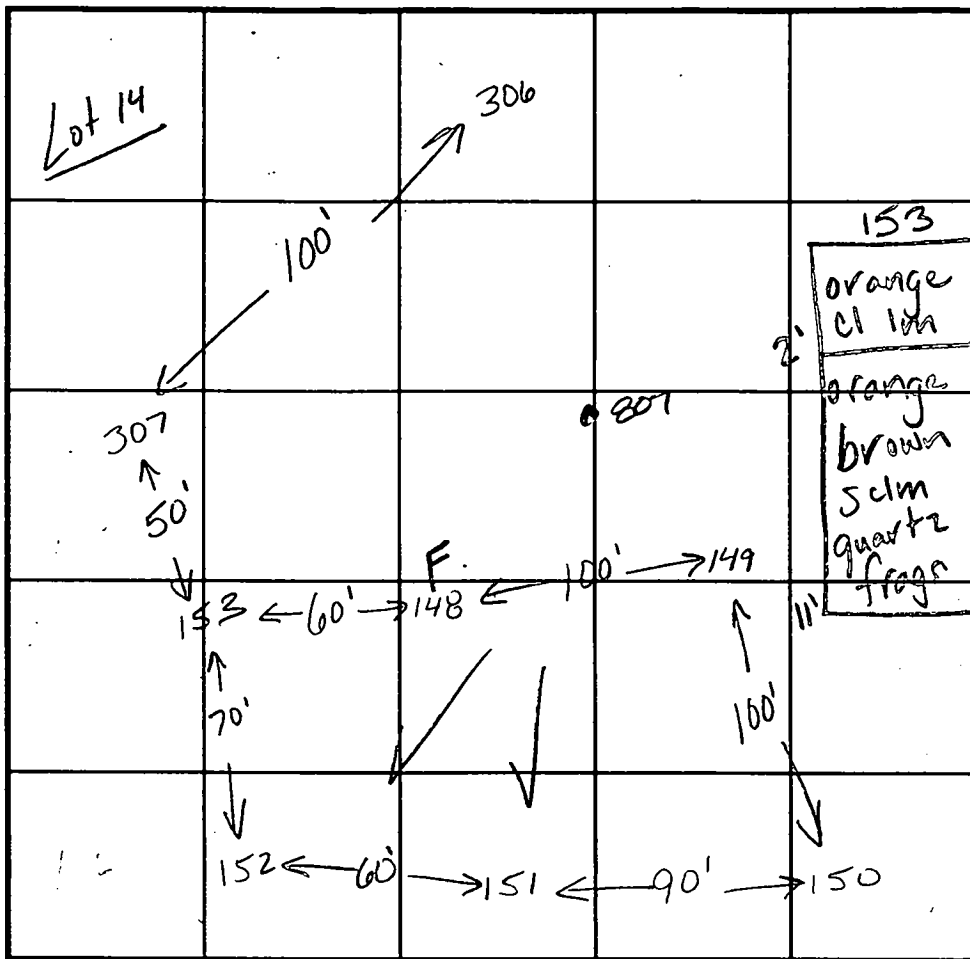
COUNTY #

SOIL PROFILE

0' 152
orange
cl lm
2' brown/
orange
sclm
mica
flecs
20%
Saprolite
10'

151
orange
cl lm
3' mica
flecs
orange
beige
sclm
15%
Shale
frags
12'

150
orange
cl lm
3.0' beige
sclm
mica
flecs
10%
Shale
11'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

0' 149
orange
cl lm
3' orange
sclm
quartz
boulders
30%
gravelly
mica
flecs
11'

148
orange
sclm
quartz
boulders
75% or x
at 4.5'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8-20-88	152	2.5'S	2:2650	2:3030	2:3050	2:40	9 10
		10.0'D	visual	ok	- see profile		
	151	12.0'D	visual	only	- ok see profile		
	150	3.5'S	2:3510	2:3540	2:3540	2:3640	1 min
		11.0'D	visual	only	- ok see profile		
	149	2.5'S	2:4010	2:4110	2:4110	2:4310	2 min
		11.0'D	visual	ok	- see profile		
	148	11.0'D	FAILED DUE TO ROCK F				
	153	3.5'S	2:5915	3:0110	3:0110	3:0910	8 min
		11.0'D	visual	ok	- see profile		

REMARKS test holes staked by surveyor
 TYPE OF SOIL _____
 TESTED BY Kim Maiste ALSO PRESENT Tim Feaga
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 5 minutes TRENCH WIDTH _____
 INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT./BEDROOM 180

APPLICATION

PERCOLATION TESTING

A 510571N

P _____

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

DISTRICT _____

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TO: THE COUNTY HEALTH OFFICER
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PROPERTY OWNER George A. Garbutt

ADDRESS 11363 Frederick Rd., Ellicott City, MD 21042 PHONE _____

AGENT OR PROSPECTIVE BUYER Heritage Land Development

ADDRESS 3243 Bethany Lane, Ellicott City, MD 21042 PHONE 410-313-8808

PROPERTY LOCATION:

SUBDIVISION Brantwood II LOT NO. 14

ROAD AND DESCRIPTION 11363 Frederick Road, Ellicott City, MD 21042

TAX MAP 16 PARCEL # 172

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. _____ ✓

(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

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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

510571N

COUNTY #

SOIL PROFILE

306

0'
orange/
brown
cl lm

3'
orange/
red
siltm
10%
shale
frags
mica flecks

11.5'
307

Same
as
hole
306

807

3.0
dark
brown
siltm

dark
brown
salm
20%
feldspar

SOIL PROFILE

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
	306	11.5'D	visual	only - ok	see	profile	
	307	11.5'D	visual	only - ok	see	profile	
11-8-99	807	See profile					ok

REMARKS test holes staked

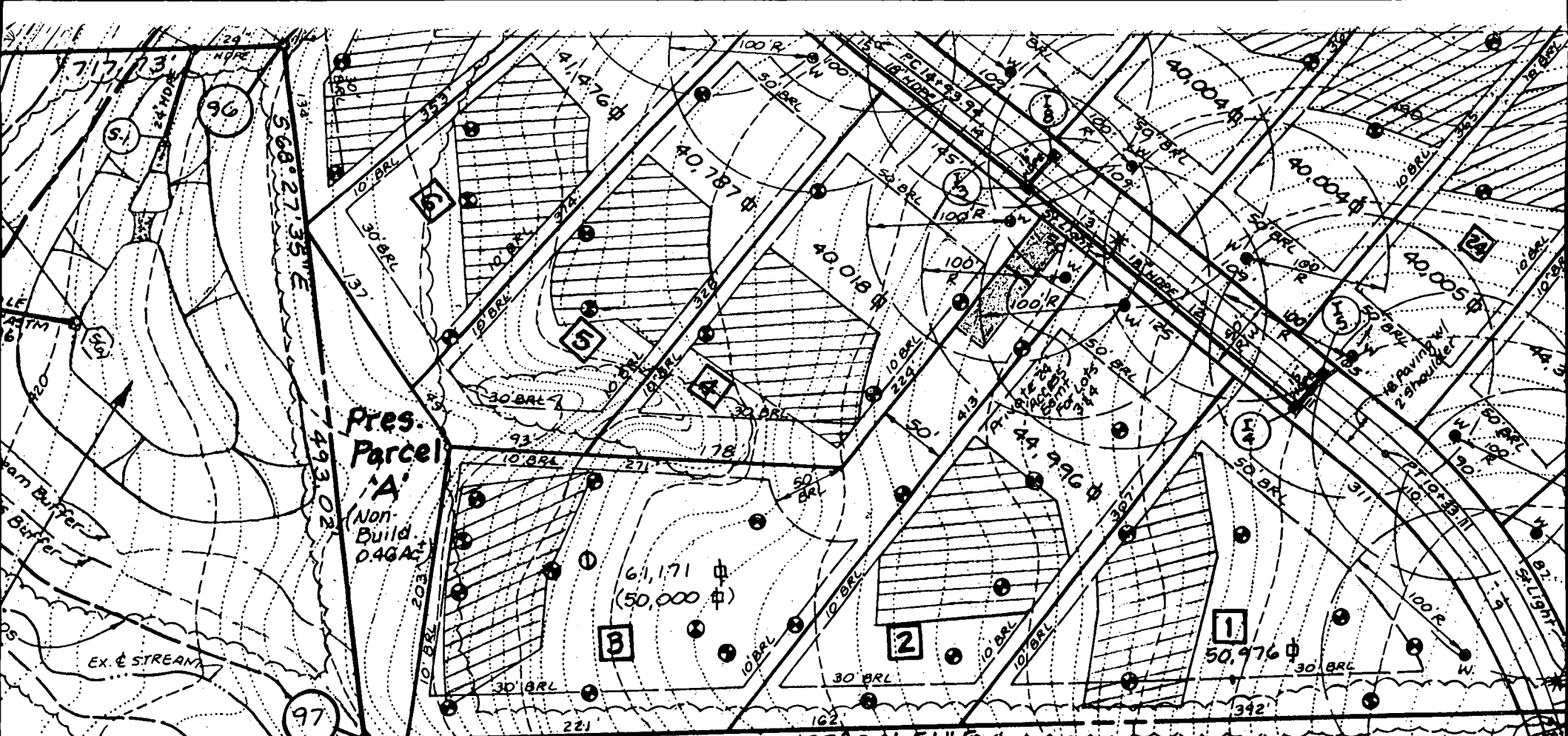
TYPE OF SOIL _____

TESTED BY Kim Maiste ALSO PRESENT Tim Feaga

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

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

12.0

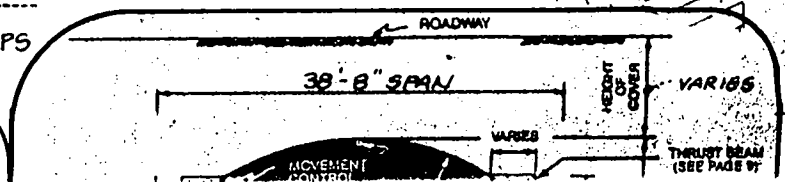


P.00.04
5.17.00

ACCEPTABLE STREET LIGHT POLE AND FIXTURE
Table 5.03

Roadway Classification	Mitt. Pole Height	Pole Type	Fixture	Lamp Size
Residential	30 ft.	Fiberglass bronze w/ 12" arm	Pendant Fixture	150w. HPS

CURVE DATA TABLE

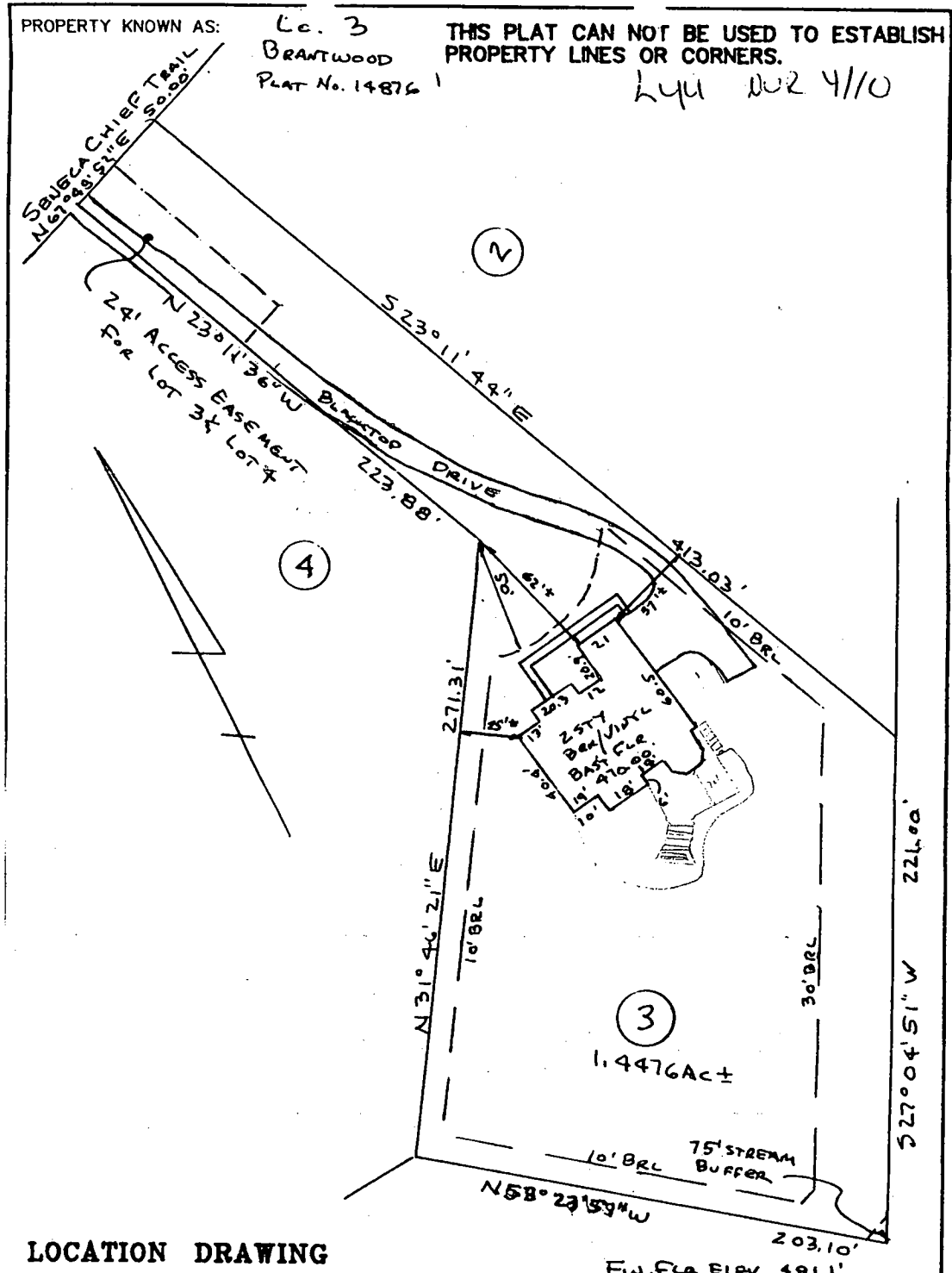


LIMIT OF SUBMISSION
Remove Temporary Tee Turnaround Sta 8+05 and Extend Road

TRAIL

B00142404
 6-12-03
 No septic
 or well
 issues

(KN)



LOCATION DRAWING

FIN. FLA ELEV 481.1'

CERTIFICATION	SEAL	SCALE 1"=50'	DATE 4/9/02
<p>This is to certify that I have surveyed the property known as: <u>Lot 3</u> <u>SECTHER AREN OVE BRANTWOOD</u></p> <p>The information shown has been established by current acceptable survey procedures and from available record information. This drawing is to be used for Title Transfer Financing, or Refinancing Only and IS NOT to be used for the Establishment of Property Lines, Location for Fences, Garages, Buildings, or other Existing or Future Improvements.</p>		<p>LDE Inc. 9250 Rumsey Road Suite 106 Columbia, Maryland 21045</p> <p>(410) 715-1070 (Balt.) (301) 596-3424 (Wash.) (410) 715-9540 (Fax)</p>	