

LAYOUT 4/25/02 ~~5/1/02~~ 11:00 INSP 4 _____
 INSP 2 5/1/02 11:00 INSP 5 _____
 INSP 3 _____ INSP 6 _____

ISSUE DATE: 4/22/2002

P 516942

APPROVAL DATE: 5/1/02

A 510571K

PERMIT INDEXED

337200

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

South Carroll Backhoe IS PERMITTED TO INSTALL ALTER

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

SUBDIVISION: Brantwood 3/1 LOT NUMBER: 10

ADDRESS: 3052 Seneca Chief Trail PROPERTY OWNER: _____

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

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 2.0 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION:	Start the first trench 165 feet from the front lot line and 10 feet from the right lot line as seen from Seneca Chief Trail. Run trenches on countour 9' ETE.
NOTES:	Basement service by gravity is proposed. 3- 80' trenches preferred

PLANS APPROVED: FS DATE: 5/1/02

- 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

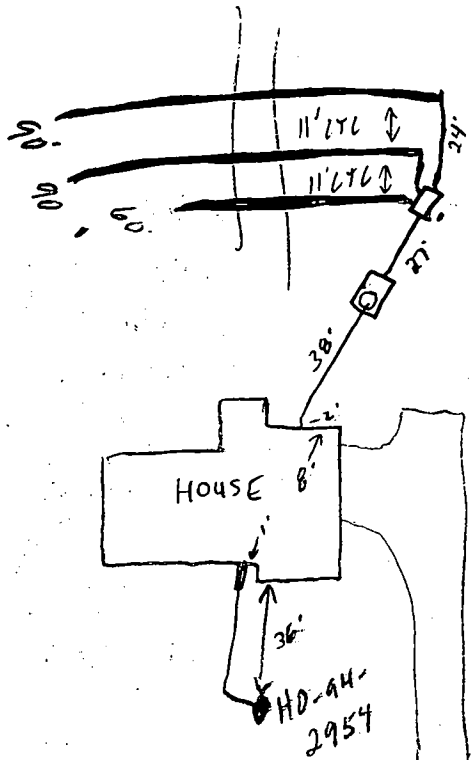
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT ALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

BUILDING PERMIT SIGNED AND RETURNED 7/26/02

Boo13708 DECK

A510571-K

NOT TO SCALE



SENECA CHIEF TRAIL

TRENCH DATA

TRENCH WIDTH 3'
 TRENCH INLET DEPTH 2'
 TRENCH BOTTOM DEPTH 4'
 DEPTH OF STONE 2'
 NUMBER OF TRENCHES 2
 TOTAL TRENCH LENGTH 240
 ABSORBENT AREA 720
 DISTRIBUTION BOX LEVEL
 BAFFLE IN DISTRIBUTION BOX

SEPTIC TANK DATA

SEPTIC TANK 1500 GALLONS
 MANHOLE RISER Front
 6 INCH INSPECTION PORT None

PUMP CHAMBER DATA

PUMP CHAMBER GALLONS _____
 MANHOLE RISER _____
 ALARM _____
 PUMP PERFORMANCE TEST _____

PRE-CONSTRUCTION INSPECTION: 4/25/02 - LAYOUT PER PLAN, MINOR SWALE IN CENTER OF SDA

DUE TO DIRT RD ACCESS, SDA STAKED, CONTRACTOR TO INSTALL AS BEST AS POSSIBLE (SRW)

INSPECTION COMMENTS: 4/30/02 Tank, DB & 2 trenches installed. OK to cover (SD)

5/1/02 OK to cover all work, manhole riser still needed (SD)

5/1/02 Riser on tank (SD)

INSPECTOR

John [Signature]

DATE SYSTEM APPROVED

RECEIVED
APR 25 2002
SENECA COUNTY

Total linear feet of trench required 240 feet

Width of trench(es) 3 feet

Depth of trench(es) 4 feet

Depth of stone required below distribution pipe 2 feet

NOTES:

1. Existing Zoning: RC
2. Property address: 3052 Seneca Chief Trail
3. The Limit of Disturbance was approved under GP02-34
4. The proposed driveway for this lot shall be a minimum of 10' wide, 6" crusher run with 2-1/2" macadam surface.
5. The topography shown assumes proposed contours from the FO1-67 plan are existing.
6. Driveway Entrance per Howard County Volume IV Standard Detail R 6.06.

GRAVITY
Basement service is proposed.

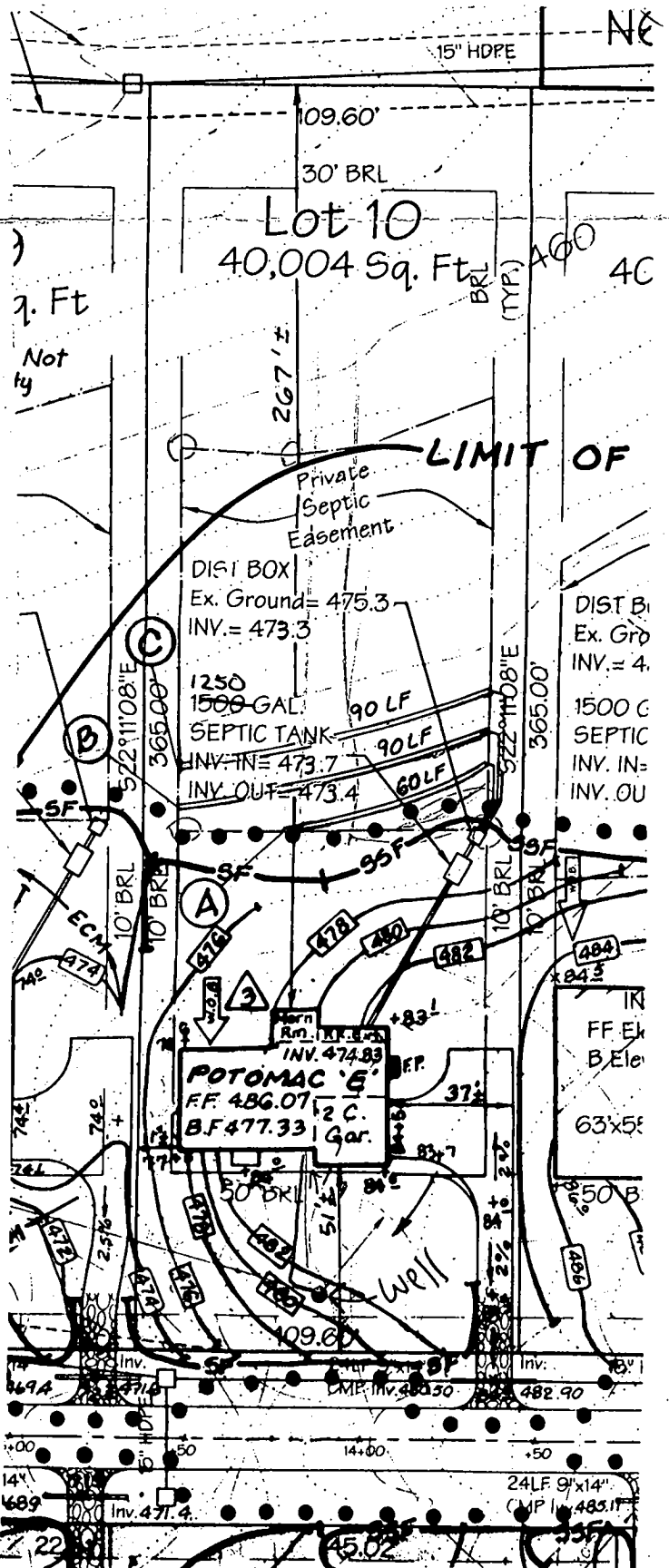
SEPTIC SYSTEM DESIGN DATA:

1250 T.S.

- ① Invert at Foundation Wall: 474.83
- ② 1500 Gallon Septic Tank (4 BR-Provide manhole to grade)
Existing Ground over Tank: 476.0
Proposed Grade over Tank: 476.0
Invert In: 473.7
Invert Out: 473.4
- ③ Distribution Box: (3 Outlets Minimum)
Existing Ground Over Box: 475.3
Proposed Grade Over Box: 475.3
Invert In: 473.3
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)
Ex. Ground over Trench:	473.40	472.40	471.40
Invert Trench:	471.40	470.40	469.40
Bottom Trench:	469.40	468.40	467.40
Length of Trench:	60LF	90LF	90LF
Width of Trench:	3 Ft.	3 Ft.	3 Ft.

NOTE: Trench Design may be revised at time of installation based on site conditions.



SENECA CHIEF TRAIL
Approved Septic System (Ex. 150' R/W)
Howard County Health Department

Plan OK
T. J. Shuman

LDE, Inc.
0250 Rumsey Road, Suite 100
Columbia, Maryland
(410)715-1070 - (301)598-3424 - Fax(410)715-9540

Title: **REVISION 3 TO GP02-34 BRANTWOOD SECTION 3 AREA 1 LOT 10**

Signature	Date: 11/21/01	Drawn: LDE
	Scale: 1" = 50'	LDE Job No.: 01-043
		Sheet: 1 OF 1

C1 0277
 SEQUENCE NO. (MDE USE ONLY)
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

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

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED
 COUNTY NUMBER AK10571K
 PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-44-2954

ST/CO USE ONLY
 DATE RECEIVED
 MM DD YY
 8 13

DATE WELL COMPLETED
 MM DD YY
 04-02-01

Depth of Well
 22 450' 26
 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL"
 28 29 30 31 32 33 34 35 36 37
HO-44-2954

OWNER Brantwood LLC
 STREET OR RFD Seneca Chief Trail TOWN ELICO-H CITY
 SUBDIVISION Brantwood SECTION B11 LOT 10

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		check if water bearing
	FROM	TO	
Brown & Brownish Tan & Orange silt soil w/ some broken flint rock	0'	35'	
Tan Brown & Tan Orange weathered soft gray rock	35'	50'	
Orange silt soil	50'	62'	
Soft gray rock	62'	65'	
Med Hard Gray & Green & White Limestone & Gray MKA Rock	65'	450'	✓
		85'	✓
		386'	✓

GROUTING RECORD
 WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N
 TYPE OF GROUTING MATERIAL (Circle one) CEMENT BENTONITE CLAY
 NO. OF BAGS 22 NO. OF POUNDS 208
 GALLONS OF WATER 132
 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 70 ft.
 (enter 0 if from surface)

CASING RECORD
 MAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch)! 6" Total depth of main casing (nearest foot) 70
 OTHER CASING (if used) diameter inch 5" depth (feet) from 70' to 90'

SCREEN RECORD
 screen type or open hole ST BR HO
 STEEL BRASS OPEN HOLE
 PL OT
 PLASTIC OTHER

NUMBER OF UNSUCCESSFUL WELLS: 0
 WELL HYDROFRACTURED YES NO
 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.

C2 DEPTH (nearest ft.)
 1 70' 2 450'
 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68
 MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) (E.R.O.S.) W Q
 TELESCOPE CASING LOG INDICATOR OTHER DATA

C3 **PUMPING TEST**
 HOURS PUMPED (nearest hour) 6
 PUMPING RATE (gal. per min.) 2
 METHOD USED TO MEASURE PUMPING RATE WATER BUCKET
 WATER LEVEL (distance from land surface) BEFORE PUMPING 68' ft. WHEN PUMPING 374' ft.
 TYPE OF PUMP USED (for test) 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. 29
 CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35
 PUMP HORSE POWER 37 41
 PUMP COLUMN LENGTH (nearest ft.) 43 47
 CASING HEIGHT (circle appropriate box and enter casing height) + above LAND SURFACE - below 2' (nearest foot)



410-730-0810

EMERGENCY/TEMP NO. IF ANY

B 1 03015

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO-94-2954

W514745 please print or type

fill in this form completely

Date Received (APA) 1/16/01

% NICK LIPARINI OWNER INFORMATION

B 3

LOCATION OF WELL

BRANT WOOD LLC 8835-P Columbia 100 PARKWAY Columbia MD 21045

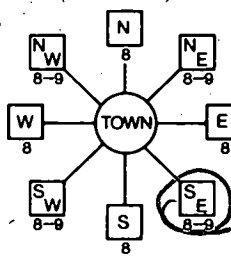
Howard COUNTY BRANTWOOD SUBDIVISION SECTION 3 LOT 10 MAYFIELD NEAREST TOWN

DRILLER INFORMATION

MICHAEL BARLOW MD 0355 Driller's Name License No. MICHAEL Barlow Well Drilling Firm Name 522 Underwood Lane Bel Air MD Address Signature Date 1-11-2001

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Serena Chief Trail Bitter Fruit Way NEAR WHAT ROAD

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



30 37 DISTANCE FROM ROAD ENTER FT OR MI

WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) 5 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500

TAX MAP: BLK: PARCEL

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION (circled) FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) INDUSTRIAL, COMMERCIAL, DEWATERING PUBLIC WATER SUPPLY WELL TEST, OBSERVATION, MONITORING GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard CO A510571K COUNTY NAME COUNTY NO. STATE SIGNATURE INSERT S DATE ISSUED 1/25/01 1/25/02 CO SIGNATURE EXP. DATE NORTH GRID 520 000 EAST GRID 820 000

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

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER

3/27/01 x 1:00 3/27/01 No Insp. Great bone on 4/3/01 location OK casing 70' 22 bags used

METHOD OF DRILLING (circle one)

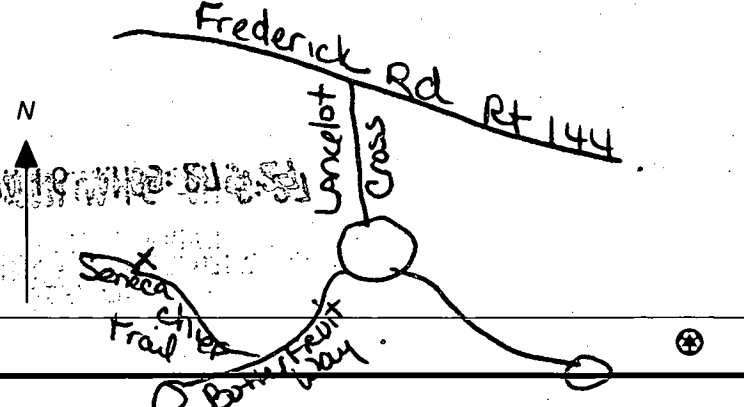
BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTARY AIR-PERCUSSION ROTARY (Hydraulic Rotary) CABLE Reverse-ROTARY Drive-POINT

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

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

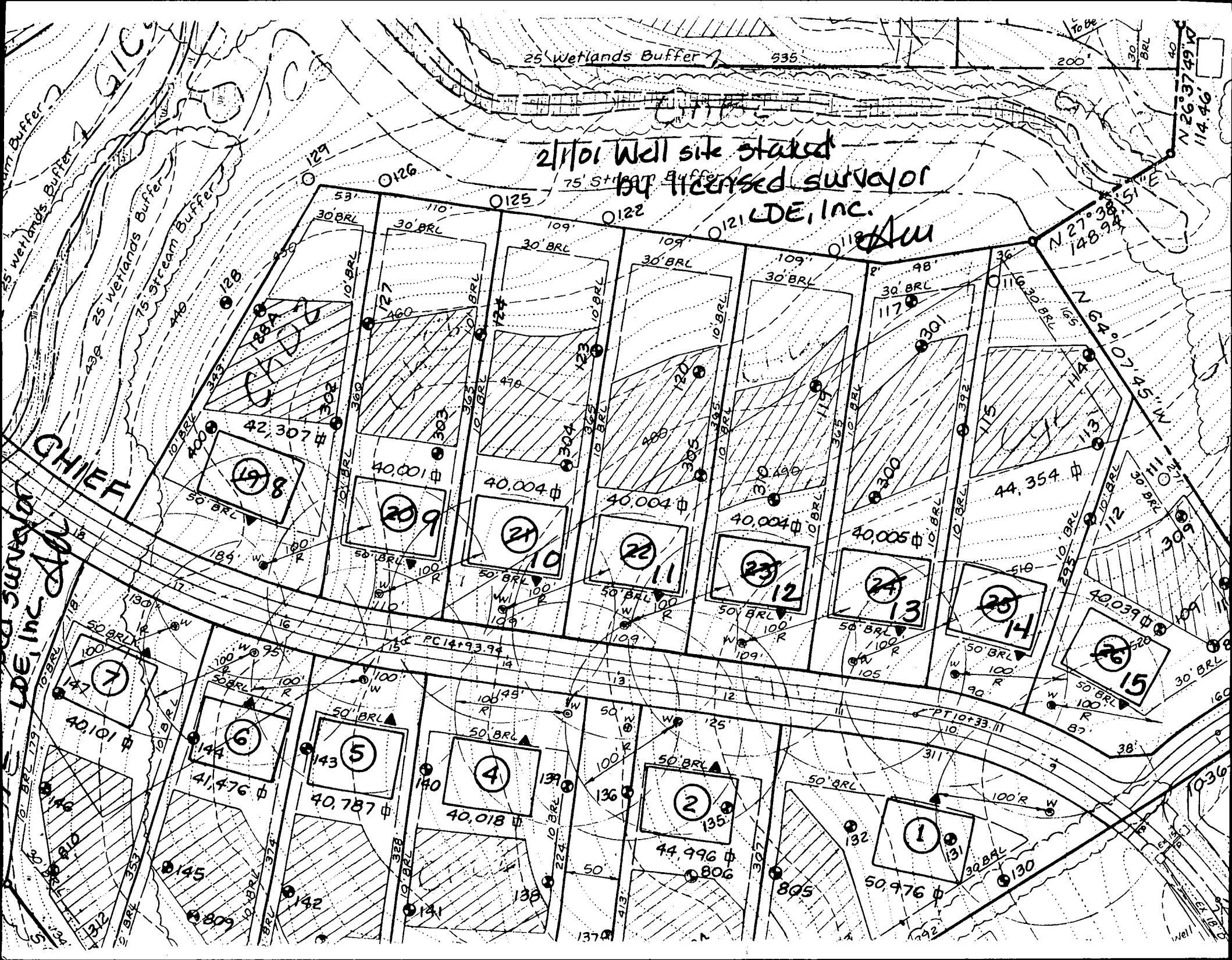
THIS WELL WILL NOT REPLACE AN EXISTING WELL THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS THIS WELL WILL DEEPEM AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)

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



Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER HO 98 G A P 3003(2) PERMIT No. HO-94-2954

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



25 Wetlands Buffer

535

200'

21/01 Well site staked
by licensed surveyor
LDE, Inc.

N 26° 37' 49" W
114.46'

N 27° 38' 51" E
148.94'

N 64° 07' 45" W
166'

CHIEF

LDE, Inc.

198

209

2110

2211

2312

2413

2514

2615

7

6

5

4

2

1

41,476

40,787

40,018

44,996

50,976

145

142

141

138

806

805

130

809

142

141

138

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805

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127

124

123

120

117

115

114

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114

113

APPLICATION

PERCOLATION TESTING

A 510571 G

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. 121

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 _____

REASONS FOR REJECTION OR HOLDING Hold for wet season testing

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

5105716

COUNTY #

SOIL PROFILE

123

orange
Clay
1m

brown /
orange
silt
mica
flocs
10%
shale

122

brown /
orange
Clay
Silt
loam
clay

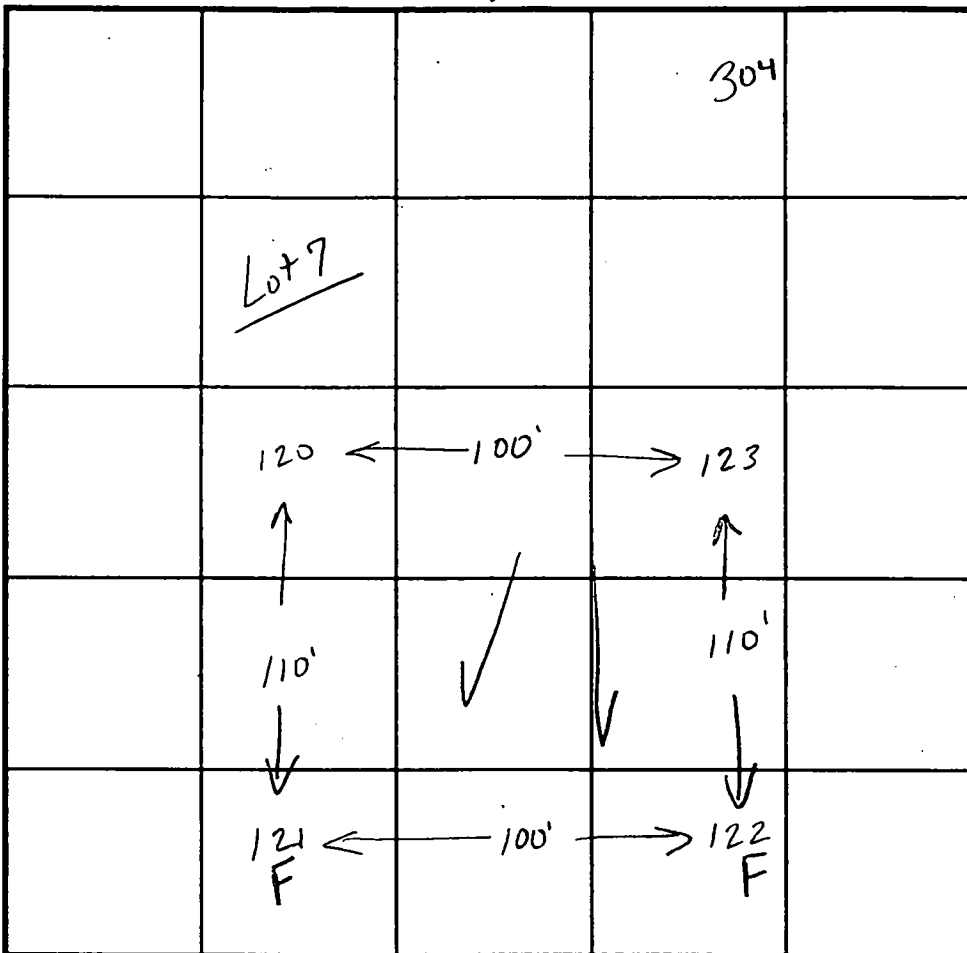


WATER

120

brown /
orange
cl 1m

Brown
Silt
quartz
frags
10%
shale
frags



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Route 144

SOIL PROFILE

121

orange
brown
Clay
loam
mica
flocs
15% rx
frags
WATER

304

or / br
cl 1m
tan / beige
silt
mica flocs
10%
shale

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
8.19.98	123	3.0'S	11:1815	11:2150	11:2150	11:2530	340	
		11.0'D	visual ok - see profile					
	122	FAILED DUE TO WATER					F	
	120	3.0'S	11:1310	11:1410	11:1410	11:1610	2min	
		10.0'D	visual ok - see profile					
	121	9.0'D	failed due to water					F
	304	3.0'S	11:3945	11:4020	11:4020	11:50	940	
		12.0'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 _____

TRENCH WIDTH _____

INLET DEPTH _____

MAXIMUM BOTTOM DEPTH _____

SQ. FT./BEDROOM _____

510571 H

COUNTY #

SOIL PROFILE
125

brown
orange
clay
loam
damp

WATER

124

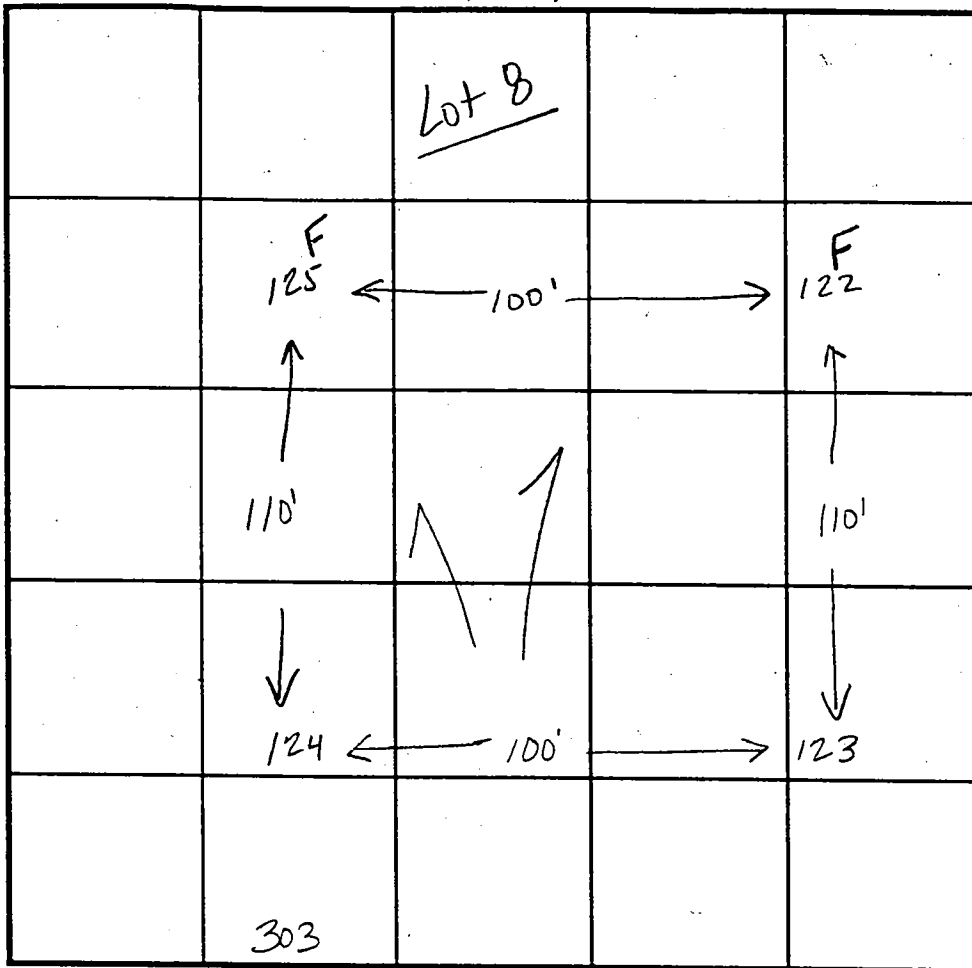
orange
brown
clm

brown
silt
quartz
mica
flocs
possible
water
damp
grey dirt
at 12'

122

brown/
orange
clay
silt
loam
damp

WATER



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE
125

orange
clm

2.5'

brown/
orange
silt
mica
flocs
10%
shale

11'

303

orange
clm

2'

orange
silt
mica
flocs

12'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
8/19/98	124	3.0'S	11:1430	11:1930	11:1930	11:2600	720	
		12.0'D	visual - see profile					
	125	10.0'D	FAILED DUE TO WATER					F
	122		FAILED DUE TO WATER					F
	123	3.0'S	11:1815	11:2150	11:2150	11:2530	340	
		11.0'D	visual ok - see profile					
	303	3.0'S	11:1030	11:11	11:11	11:12	1 min	
		12.0'D	visual ok - see profile					

REMARKS test holes staked by surveyor

TYPE OF SOIL

TESTED BY Kim Maiste

ALSO PRESENT Tim Feaga

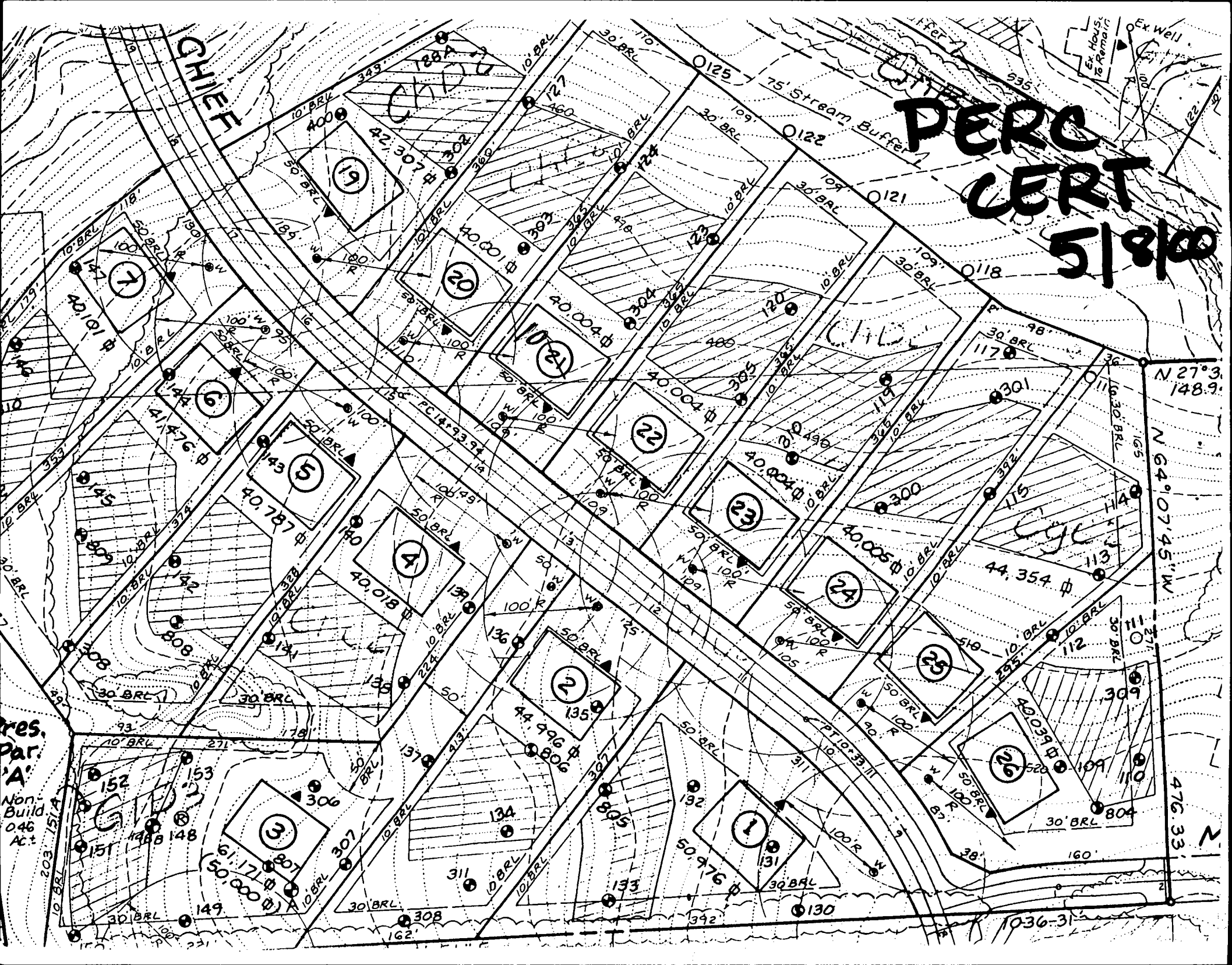
TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH

INLET DEPTH

MAXIMUM BOTTOM DEPTH

SQ. FT/BEDROOM



**PERC
LERT
5/8/00**

CHIEF

res.
par
'A'
Non-
Build
0.46
Ac±

N 27° 3.148.9'

N 64° 07' 4.5" W

476.33

1036-31

19

20

21

22

23

24

25

26

7

6

5

4

2

1

3

152

151

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