

LAYOUT 4/10/02 10:00 INSP 4 4/16/02 2:00  
 LAYOUT 4/12/02 NOON INSP 5 4/16/02  
 INSP 3 4/15/02 1pm INSP 6 \_\_\_\_\_

ISSUE DATE: 3/11/2002

APPROVAL DATE: 4/16/02

**PERMIT  
INDEXED**

P 516 866 -A

A 510571

*RPS#  
337243*

**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 Road PHONE NUMBER: 410-875-4197

SUBDIVISION: Brantwood 3/1 LOT NUMBER: 14

ADDRESS: 3036 Seneca Chief Trail PROPERTY OWNER: RUSSELL HUNT

SEPTIC TANK CAPACITY (GALLONS): 1250 ~~1500~~ 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 3.0 feet below original grade. Bottom maximum depth 5.0 feet below original grade. Effective area begins at 3.0 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION:	From Seneca Chief Trail, place the distribution box 158' from the front property line and 20' from the left lot line. Run trenches on contour.
NOTES:	Gravity basement service is proposed.

PLANS APPROVED: FS/KG OUSRU 1/22/02 DATE: 1/22/02

- 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

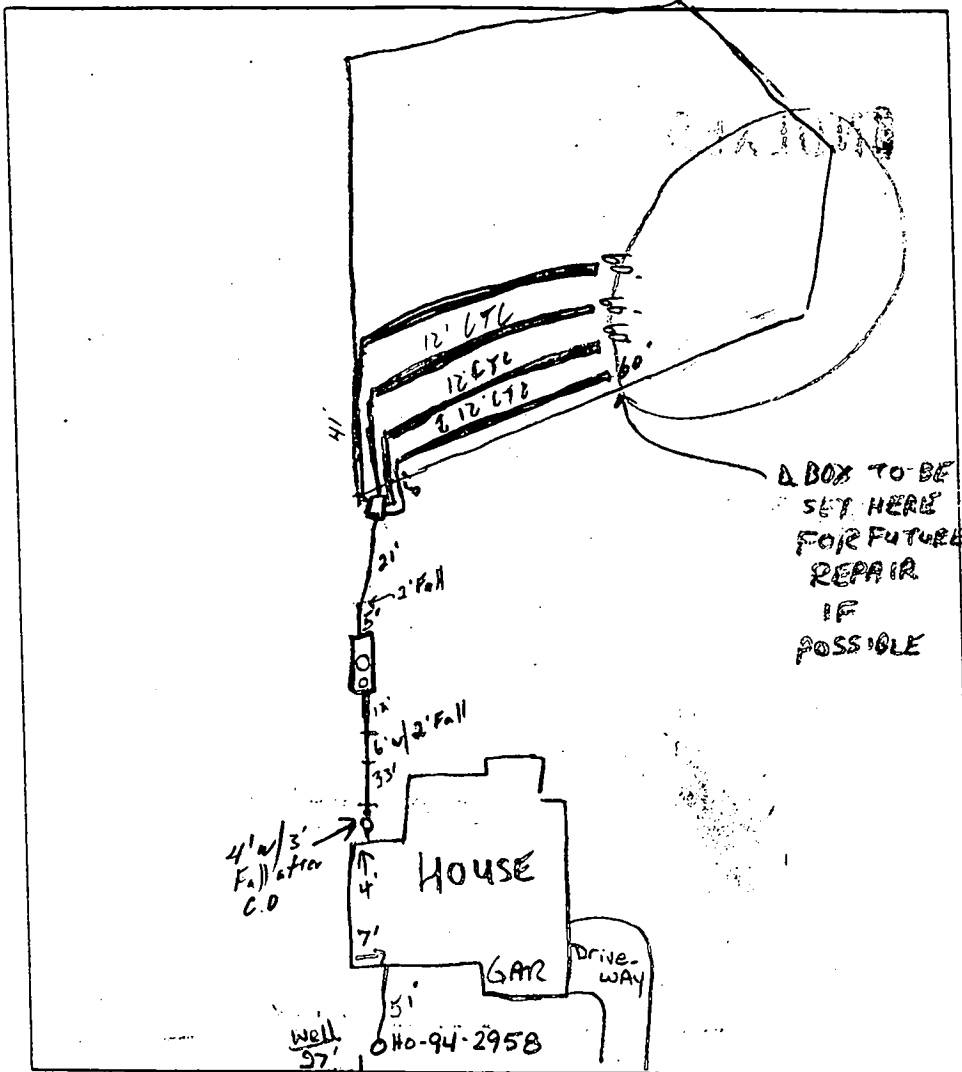
**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS  
RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM  
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT  
ALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM**

**BUILDING PERMIT SIGNED  
AND RETURNED**

*9/26/2002 B00138633 DECK*

A510571-0

NOT TO SCALE



TRENCH DATA	
TRENCH WIDTH	3'
TRENCH INLET DEPTH	3'
TRENCH BOTTOM DEPTH	5'
DEPTH OF STONE	2'
NUMBER OF TRENCHES	4
TOTAL TRENCH LENGTH	240'
ABSORBENT AREA	720 sq ft
DISTRIBUTION BOX LEVEL	<input checked="" type="checkbox"/>
BAFFLE IN DISTRIBUTION BOX	<input checked="" type="checkbox"/>

SEPTIC TANK DATA	
SEPTIC TANK	1500 TS GALLONS
MANHOLE RISER	Center
6 INCH INSPECTION PORT	Front
PUMP CHAMBER DATA	
PUMP CHAMBER GALLONS	NA
MANHOLE RISER	NA
ALARM	NA
PUMP PERFORMANCE TEST	NA

PRE-CONSTRUCTION INSPECTION: 4/10/02 Lot not staked, OK to set tank, check 100' radius (SO)

INSPECTION COMMENTS: 4/12/02 OK to cover up to DB (SO)  
4/15/02 2nd trench installed, ok to cover (SO) 4/16/02 OK to cover all trenches (SO)

INSPECTOR Steve Carter

DATE SYSTEM APPROVED 4/16/02

BUILDING PERMIT SIGNED AND RETURNED

Total linear feet of trench required 240 feet  
 Width of trench (es) 3 feet  
 Depth of trench (es) 5 feet  
 Depth of stone required below 39 Ft distribution pipe 2 feet

**NOTES:**

- Existing Zoning: RC
- Property address: 3026 Seneca Chief Trail
- The Limit of Disturbance was approved under GPO2-34
- The proposed driveway for this lot shall be a minimum of 10' wide, 6" crusher run with 2-1/2" macadam surface.
- The topography shown assumes proposed contours from the FO1-67 plan are existing.
- Driveway Entrance per Howard County Volume IV Standard Detail R 6.06.

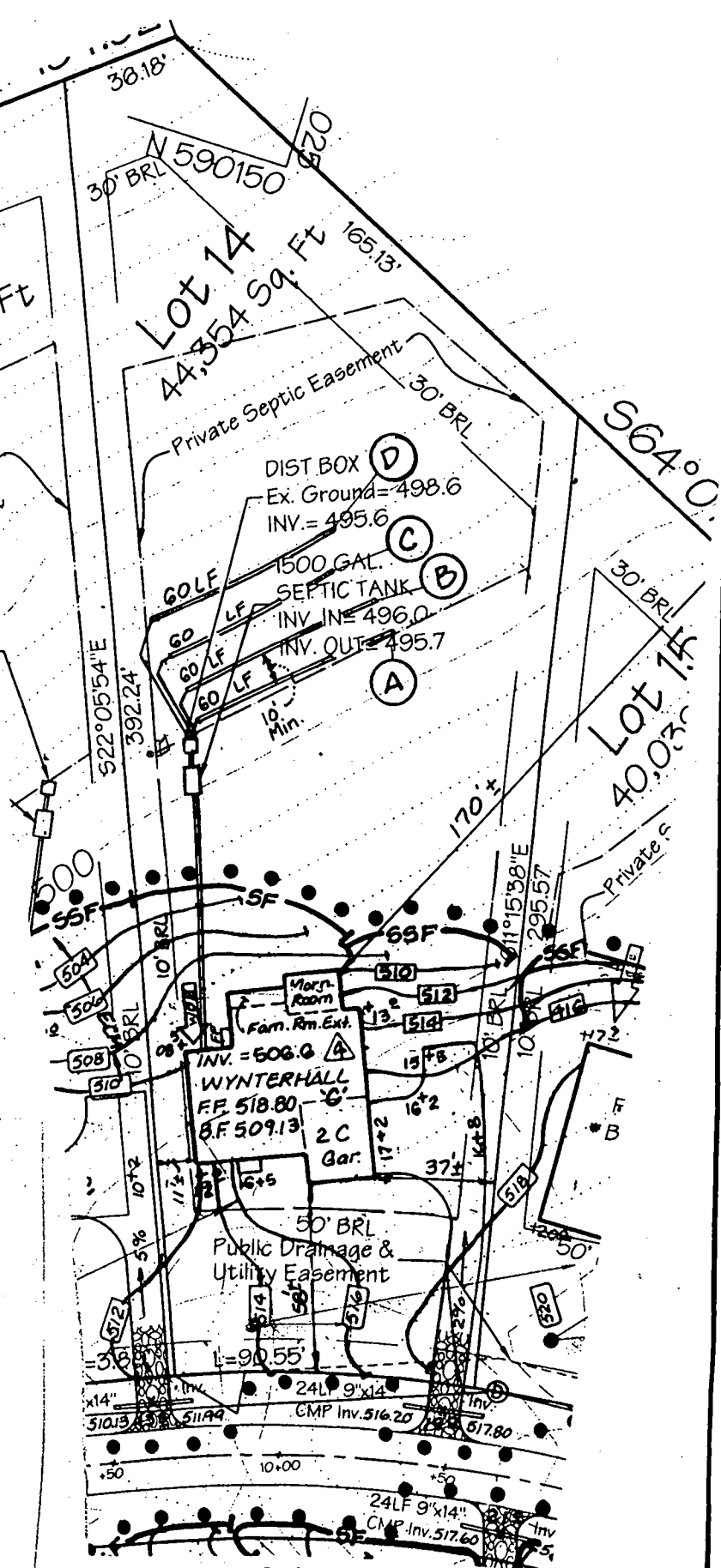
*Basement service is proposed*  
*S.T. 3' cover*  
*D.B. 3' cover*

**SEPTIC SYSTEM DESIGN DATA:**

- Invert at Foundation Wall: 506.6
- 1500 Gallon Septic Tank (4 BR-Provide manhole to grade)  
 Existing Ground over Tank: 499.6  
 Proposed Grade over Tank: 499.6  
 Invert In: 496.0  
 Invert Out: 495.7
- Distribution Box: (4 Outlets Minimum)  
 Existing Ground Over Box: 498.6  
 Proposed Grade Over Box: 498.6  
 Invert In: 495.6
- 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:	498.00	497.00	495.60	494.00
Invert Trench:	495.00	494.00	492.60	491.00
Bottom Trench:	493.00	492.00	490.60	489.00
Length of Trench:	GOLF	GOLF	GOLF	GOLF
Width of Trench:	3 Ft.	3 Ft.	3 Ft.	3 Ft.

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



**SENECA CHIEF TRAIL**  
 (EX. 50' R/W)  
 Approved Septic System Plan  
 Howard County Health Department  
 Plan OK  
*[Signature]*

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

Title: REVISION A TO GPO2-34 BRANTWOOD SECTION 3 AREA 1 LOT 14		
Date: 11/28/01	Drawn: LDE	
Scale: 1" = 50'	LDE Job No.: 01-043	Sheet: 1 OF 1

C1 8003 SEQUENCE NO. (MDE USE ONLY)  
 1 2 3 6  
 (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 A5105710 PERMIT NO. HO-94-2958

DATE WELL COMPLETED: 03-21-01 Depth of Well: 400'  
 DATE RECEIVED: MM 03 DD 21 YY 01 FROM "PERMIT TO DRILL WELL": 28 29 30 31 32 33 34 35 36 37

OWNER: BRANTWOOD L.L.C STREET OR RFD: SARCA TRAIL TOWN: ELICOTT CITY  
 SUBDIVISION: BRANTWOOD SECTION: 31 LOT: 14

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 SILT Soil	0'	15'	
Brownish orange SILT Soil	15'	31'	
Weathered Tanish orange Tanish Brown Rock	31'	50'	
Weathered Gray Rock	50'	60'	
Med. Hard Gray Green White mica Limestone Rock	60'	400'	✓
		85'	✓
		335'	✓

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box): Y N

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

NO. OF BAGS: 18 NO. OF POUNDS: 162

GALLONS OF WATER: 108

DEPTH OF GROUT SEAL (to nearest foot): from 0' ft. to 64' ft.

CASING RECORD

MAIN CASING TYPE: PL Nominal diameter: 6" Total depth: 64'

SCREEN RECORD

screen type or open hole: ST BR HO  
PL OT

PUMPING TEST

HOURS PUMPED (nearest hour): 3

PUMPING RATE (gal. per min.): 4

METHOD USED TO MEASURE PUMPING RATE: Watch & Bucket

WATER LEVEL (distance from land surface)

BEFORE PUMPING: 35' ft.

WHEN PUMPING: 298' ft.

TYPE OF PUMP USED (for test): S submersible

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED: Y 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

DRILLER'S SIGNATURE: [Signature]

LIC. NO.: MWD 546

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee): [Signature]

DEPTH (nearest ft.): 400'

ACCHSREN

SLOT SIZE 1: 10 2: 64' 3: 400'

DIAMETER OF SCREEN (NEAREST INCH): 56 60

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W Q

70 72 74 75 76

TELESCOPE CASING LOG INDICATOR OTHER DATA

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

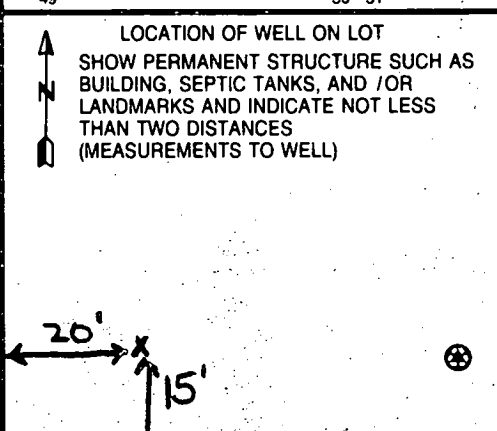
CAPACITY: GALLONS PER MINUTE (to nearest gallon): 31 35

PUMP HORSE POWER: 37 41

PUMP COLUMN LENGTH (nearest ft.): 43 47

CASING HEIGHT (circle appropriate box and enter casing height): 49 above } LAND SURFACE 2' (nearest foot)

below }



Front

410-730-0810

EMERGENCY/TEMP NO. IF ANY

B 1 03020

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND  
PERMIT TO DRILL WELL  
please print or type

STATE PERMIT NUMBER

HO 94 2958  
fill in this form completely

Date Received (APA)

1/16/01  
NICK LIPARINI  
OWNER INFORMATION

BRANTWOOD LLC

8835-P Columbia 100 Parkway

Columbia MD 21045

B 3 LOCATION OF WELL

Howard  
8 COUNTY 21  
BRANTWOOD

23 SUBDIVISION 42

SECTION 3 LOT 14

Mayfield  
52 NEAREST TOWN 71

MILES FROM TOWN (enter 0 if in town) 2 M I

DRILLER INFORMATION

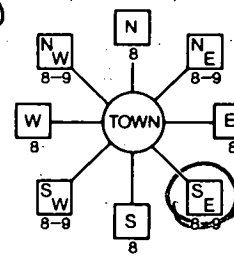
michael barlow MD 355  
Driller's Name 76 License No. 81

Michael Barlow Well Drilling  
Firm Name

522 Underwood Lane Bel Air MD  
Address

Signature Date 1-11-2001

B 4  
1 2  
DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Serena Chief Trail  
Butterfruit Way  
11 NEAR WHAT ROAD 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

34 30 37  
DISTANCE FROM ROAD FT

ENTER FT OR MI 38 39

TAX MAP: BLK: PARCEL

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)

- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
- 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 A5105710  
COUNTY NAME COUNTY NO.

STATE SIGNATURE INSERT S

DATE ISSUED 1/25/01  
43 MM 00 YY 48 CO SIGNATURE EXP. DATE 1/25/02

NORTH GRID 520 000 EAST GRID 820 000

APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 6" NEAREST INCH

METHOD OF DRILLING (circle one)

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

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 DEEPEMED AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

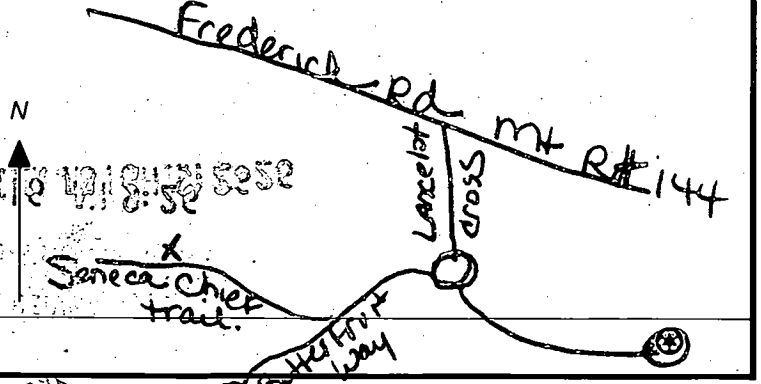
- SOURCES OF DRILLING WATER
- 1.
- 2.
- 3.

3/20/01 GROUT 12:00  
18 BAGS GROUT  
64' CASING NOT OBS'D  
40' OPEN  
3' CASING AG.  
LOC SEEMS OK  
TAG OK

WRITE THE BOX NUMBER FROM THE MAP HERE

E 820  
N 520

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)

APPROX. PERMIT NUMBER HO 98 G.A.P. (60035)  
PERMIT No. HO 94 2958

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



# APPLICATION

PERCOLATION TESTING

A 510571 D

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. 24/25

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 Possible wet season testing needed

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

510571D

COUNTY #

SOIL PROFILE  
113

orange  
clay lm  
rock  
frags 10%

brown  
silty  
clay  
loam  
mica  
flocs

114

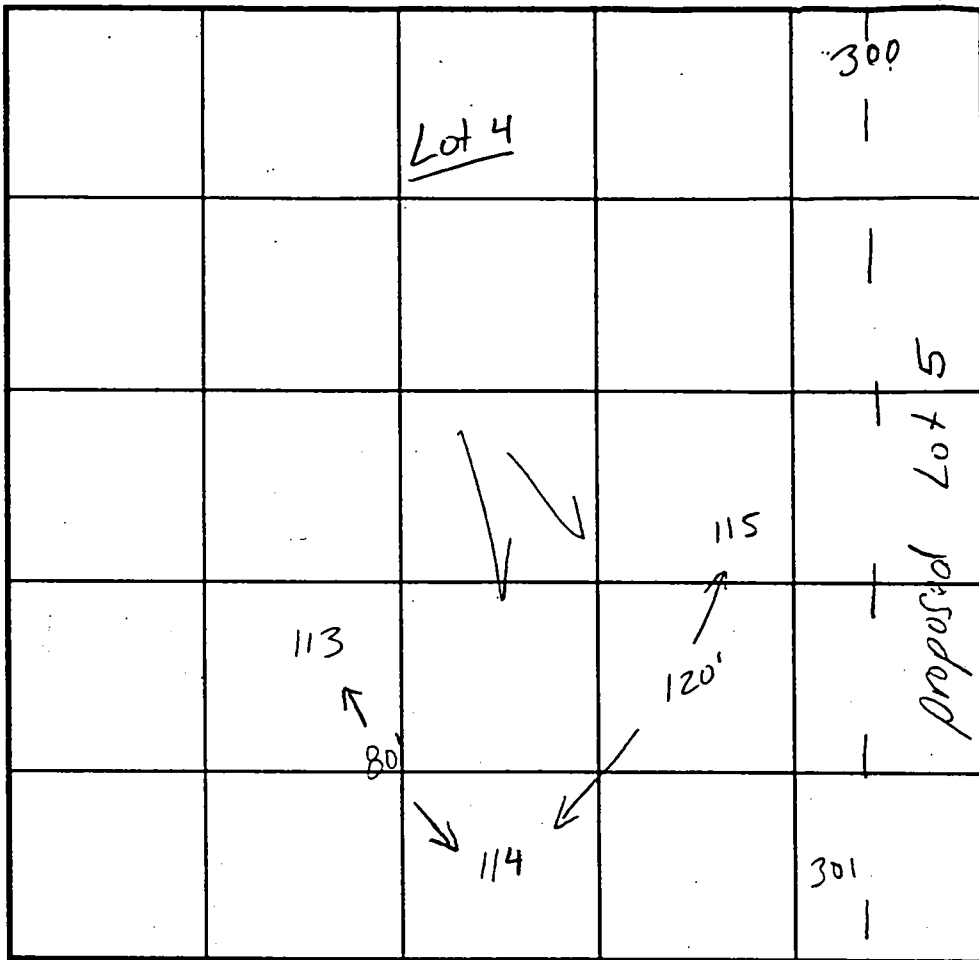
orange  
clay lm

orange  
brown  
silty  
clay lm  
15% rx  
frags at  
7.0'  
damp/pale  
grey dirt  
at bottom  
possible air

115

orange  
brown  
clay lm

brown/  
tan  
siltm  
mica  
flocs  
10%  
Saprolite



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE. Route 144

SOIL PROFILE  
300

or/br  
cl lm

tan/  
beige  
siltm  
mica  
10%  
shale

301

orange  
cl lm

tan/  
beige  
siltm  
mica  
10% shale

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8.19.98	113	3.5'S	10:24	10:26	10:26	10:29	3:50
		12.0'D	Visual	ok	see profile		
	114	3.5'S	10:25	10:27	10:27	10:30	3min
		12.0'D	Visual	ok	see profile		
	115	12.5'D	Visual	only	ok see profile		
	301	3.5'S	11:46	11:48	11:48	11:51	3
		13.0'D	Visual	ok	see profile		
	300	3.0'S	11:57	11:58	11:58	12:00	2
		12.0'D	Visual	ok	see profile		

REMARKS test holes staked by surveyor

TYPE OF SOIL

TESTED BY Kim Maiste

ALSO PRESENT Tim Fraga

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 2-3 minutes TRENCH WIDTH 3'

INLET DEPTH 3' MAXIMUM BOTTOM DEPTH 5' SQ. FT./BEDROOM 180



PROPERTY KNOWN AS: LOT 14

"BRANTWOOD"

SECTION THREE - AREA ONE

LOTS 1-16, PRESERVATION PARCELS 2 THRU 8

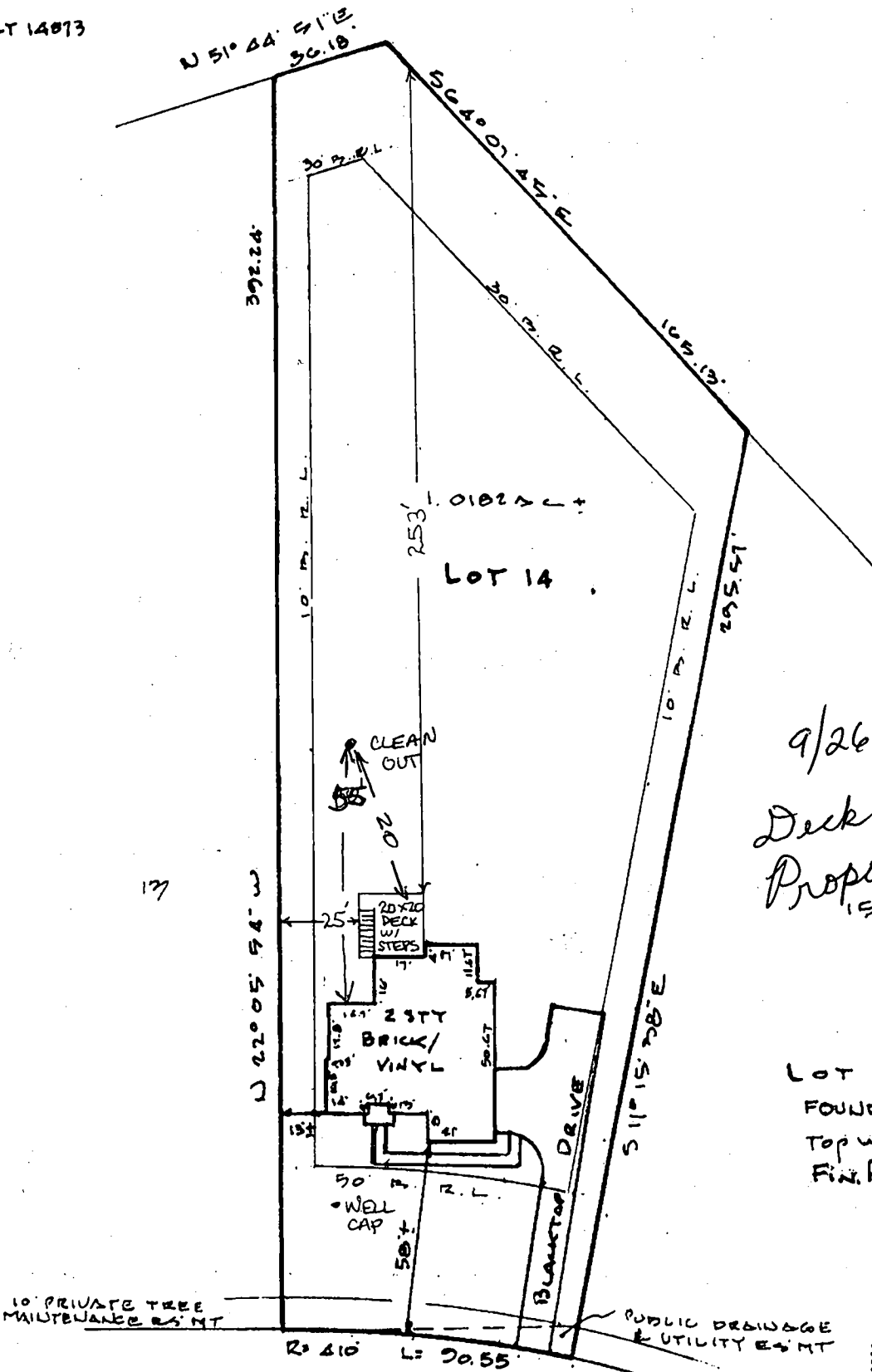
SHEET 2 OF 7

3<sup>RD</sup> ELECTION DISTRICT

HOWARD COUNTY, MD

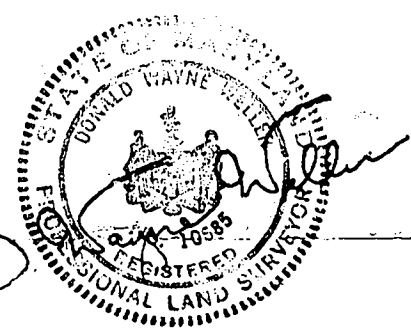
PLAT 14073

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



9/26/02  
Deck O.K. as  
Proposed.  
BB

LOT 14  
FOUNDATION 2-9-02  
TOP WALL 517.92'  
FIN. FLR 519.3'



SENECA CHIEF TRAIL  
LOCATION DRAWING

FINAL 9/30/02

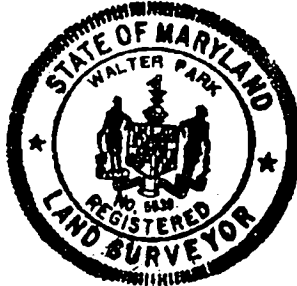
CERTIFICATION

SEAL

SCALE 1"=50'

DATE 2.25.02

This is to certify that I have surveyed the property known as: 3030  
SENECA CHIEF TRAIL



LDE Inc.  
9250 Rumsey Road Suite 106  
Columbia, Maryland 21045

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

Walter Park

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.