

LAYOUT 11:30 9/18 INSP 4 9/24/03 4:ish  
 INSP 2 9/22/03 1PM INSP 5 9/26/03 12:30-1  
 INSP 3 9/23 2pm INSP 6 \_\_\_\_\_

ISSUE DATE: 9/4/2003

APPROVAL DATE: 11/25/03

**PERMIT  
INDEXED**

P 519560

A 510575-N

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

**03-338983**

South Carroll Backhoe, Inc IS PERMITTED TO INSTALL  ALTER

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

SUBDIVISION: Brantwood 3/3 LOT NUMBER: 38

ADDRESS: 3100 Seneca Chief Trail PROPERTY OWNER: NVR, Inc

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

PUMP CHAMBER CAPACITY (GALLONS): 1250 COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: 180

LINEAR FEET OF TRENCH REQUIRED: 240 HOUSE SERVED BY PUBLIC WATER

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:	Install as shown on plan to maximize available SDA.
NOTES:	OK for basement for service.

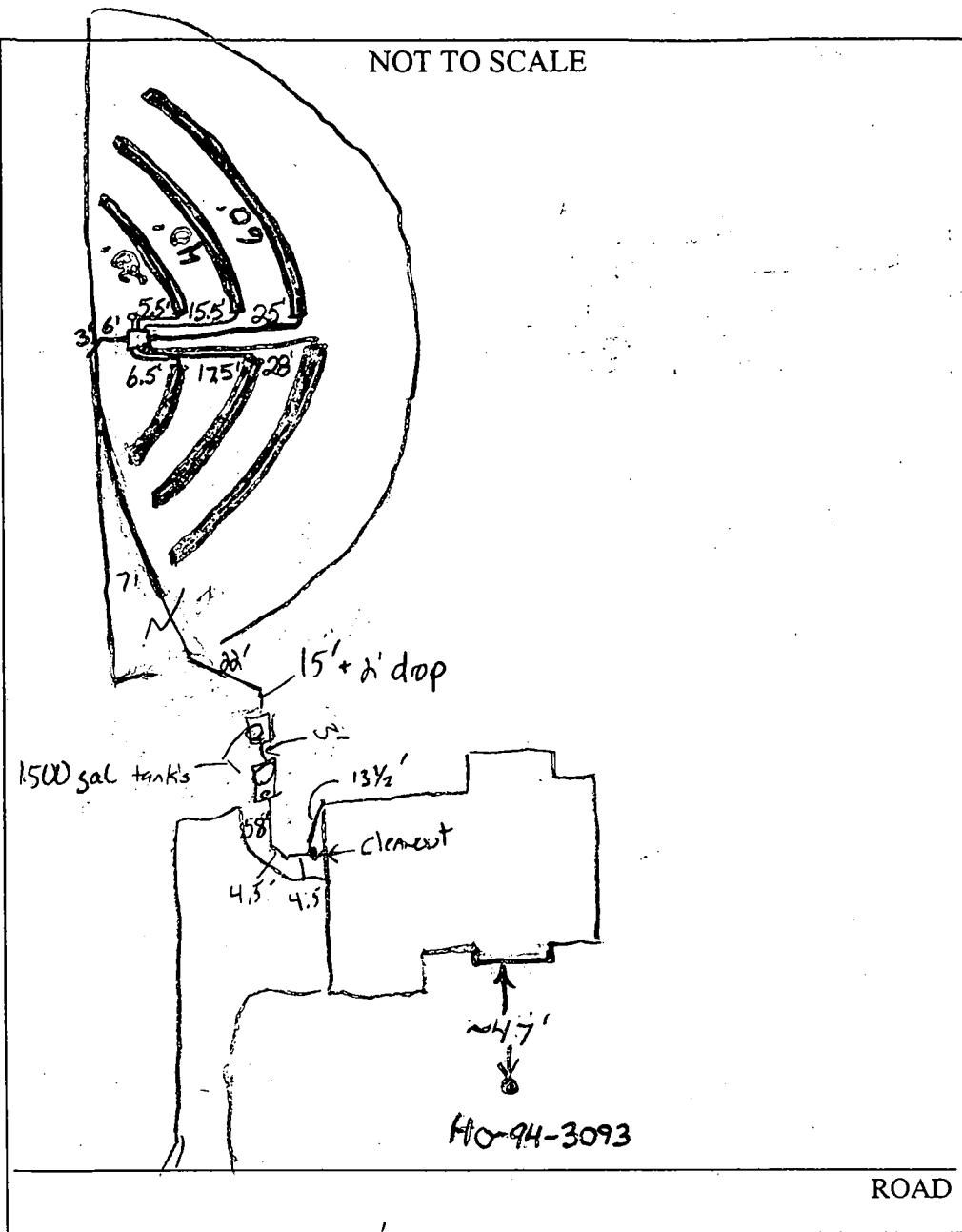
PLANS APPROVED: John Boris OK SRK 9/4/03 DATE: 10/21/2002

NOTES: PERMIT VOID AFTER 2 YEARS  
 CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS  
 WATERTIGHT SEPTIC TANKS REQUIRED  
 ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED  
 MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED  
 CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS 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  
 ALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM**

A510575-N

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
<u>3</u>	<u>2</u>	<u>4</u>
NUMBER OF TRENCHES		<u>6</u>
TOTAL LENGTH		<u>240</u>
ABSORPTION AREA		<u>720 sq ft.</u>
DISTRIBUTION BOX LEVEL		<input checked="" type="checkbox"/>
DISTRIBUTION BOX BAFFLE		<u>90° ELBOW</u>
DISTRIBUTION BOX PORT		<input checked="" type="checkbox"/>

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	<input checked="" type="checkbox"/>
CAPACITY	<u>1500</u> GAL
SEAM LOC	<u>top</u>
TANK LID DEPTH	<u>2'</u>
BAFFLES	<input checked="" type="checkbox"/>
BAFFLE FILTER	<input checked="" type="checkbox"/>
MANHOLE LOC	<u>center</u>
6" PORT LOC	<u>front</u>
WATERTIGHT TEST	<input type="checkbox"/>
SEPTIC TANK 2 LEVEL	<input checked="" type="checkbox"/>
CAPACITY	<u>1500</u> GAL
SEAM LOC	<u>top</u>
TANK LID DEPTH	<u>2'</u>
BAFFLES	<input checked="" type="checkbox"/>
BAFFLE FILTER	<input checked="" type="checkbox"/>
MANHOLE LOC	<u>center</u>
6" PORT LOC	<input type="checkbox"/>
WATERTIGHT TEST	<input type="checkbox"/>

PRE-CONSTRUCTION 9/18/03 SRA stated, contours accurate. Install trenches per B.P. (50)

INSTALLATION 9/22/03 - 2 trenches installed (2) 9/23/03 No work (50) 9/24/03 Trenches finished. O.K. to cover. (BB)

9/26/03 tanks installed ok to cover all work. Needs pump alarm test (KR/50)

11/05/03 Septic pump test ok. (KN)

FINAL INSPECTOR Kacie Norman DATE OF APPROVAL 11/25/03

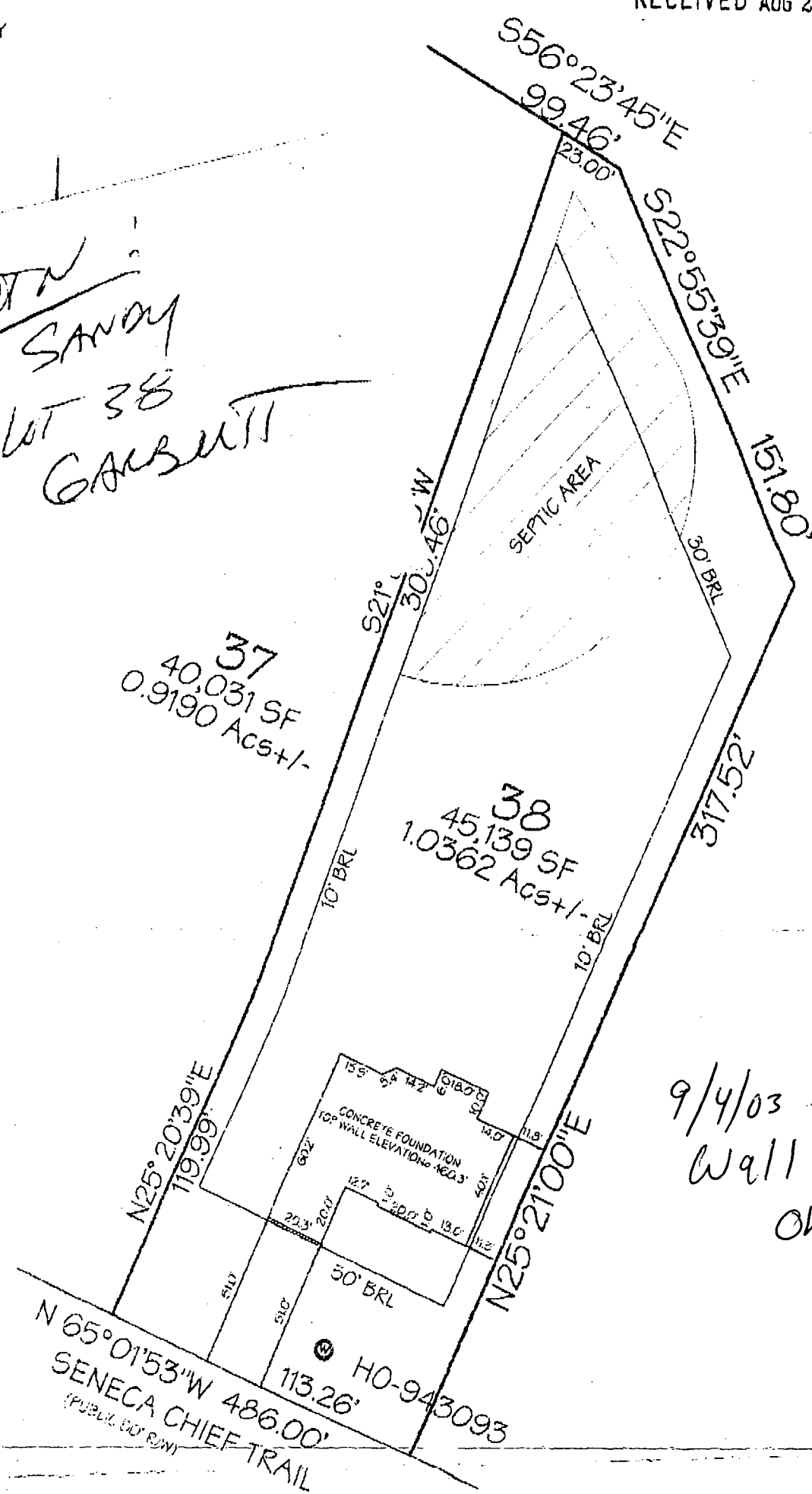
PROPERTY KNOWN AS:

LOT 38  
BRANTWOOD SECTION 3 AREA 3  
PLAT NO. 15253  
HOWARD COUNTY  
MARYLAND

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

RECEIVED AUG 27 2003

*ATTN:  
SANDY  
LOT 38  
GARBUCCI*



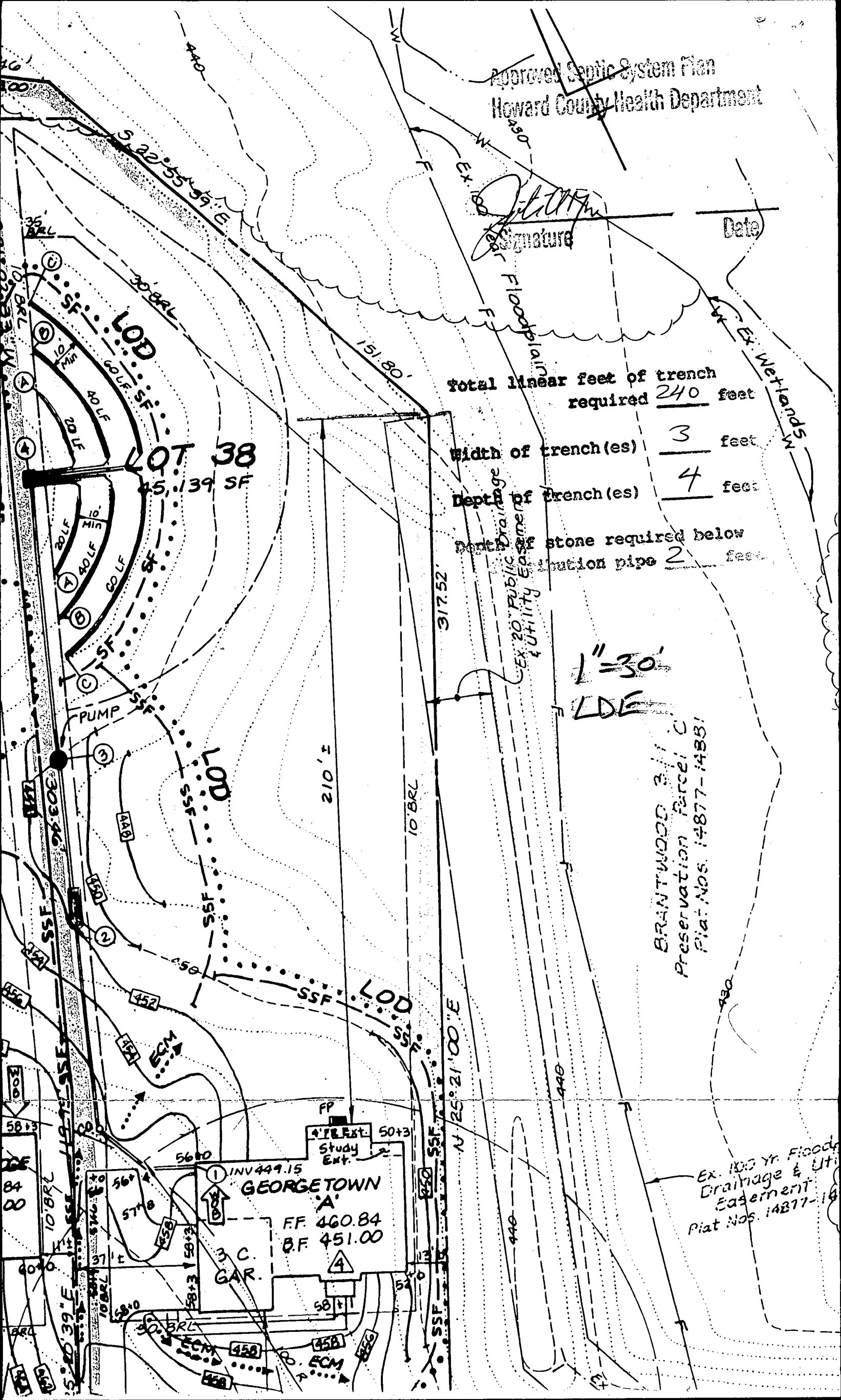
LOCATION DRAWING

CERTIFICATION	SEAL	SCALE 1" = 50'	DATE 08/01/03
<p>This is to certify that I have surveyed the property known as:</p> <p><u>LOT 38 SENECA CHIEF TRAIL</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><b>LDE Inc.</b> Engineers, Surveyors, Planners</p> <p>9250 Rumsey Road, Suite 106 Columbia, Maryland - 21045 (410)715-1070 - (410)715-9540 Fax</p>	

Approved Septic System Plan  
Howard County Health Department

*[Signature]*  
Signature

Date



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 manhole	2	feet

1" = 30'  
LDE

BRANTWOOD 3  
Preservation Parcel C  
Plat Nos. 14877-14881

Ex. 100 Yr. Flood  
Drainage & Util.  
Easement  
Plat Nos. 14877-14881

GEORGETOWN  
A  
FF 460.84  
B.F. 451.00

3 C.  
GAR.

4" PE Ext. 50+3  
Study Ext.

INV 449.15

84  
00

37  
10

58+3

58+3

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2006057 JAB

DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS 3430 COURT HOUSE DRIVE ELLICOTT CITY, MD 21043 PERMITS (410)313-2455 INSPECTIONS (410)313-1810 AUTOMATED INFORMATION (410) 313-3800	<b>HOWARD COUNTY</b> <b>PERMIT APPLICATION</b>	<b>PERMIT NUMBER</b> <b>300131783</b>
---	---	--

Building Address: <u>3100 Seneca Crest Trail</u> <u>Merri Hill 1111 21151</u>	Property Owner's Name: <u>NVA LLC</u>
Suite/Apt. #: _____ SDP/WP/Petition #: <u>SP-02-101</u>	Address: <u>2111 Parkside Dr #30</u>
Census Tract: <u>100000</u> Subdivision: <u>Greenwood</u>	City: <u>Columbia</u> State: <u>MD</u> Zip Code: <u>21111</u>
Section: _____ Area: _____ Lot: <u>38</u>	Home Phone: _____ Work Phone: <u>781 4113</u>
Tax Map: <u>16</u> Parcel: <u>441</u> Grid: <u>21</u>	Applicant's Name & Mailing Address, (if other than stated hereon): <u>Kimberly Lee P... 1517 ...</u>
Zoning: <u>R</u> Map Coordinates: <u>11A6</u> Lot size: _____	Phone: _____ Fax: _____

Existing Use: <u>Residential</u>	Contractor Company: <u>NVA LLC</u>
Proposed Use: _____	Contact Person: <u>Kimberly Lee</u>
Estimated Construction Cost: \$ <u>1,500,000</u>	Address: <u>1110 ...</u>
Description of Work: <u>New House, 2 story</u> <u>3 BR, 4 1/2 bath, 445 sq ft</u> <u>1 1/2 car garage, 4 balconies</u>	City: <u>Columbia</u> State: <u>MD</u> Zip Code: <u>21106</u>
Occupant or Tenant: _____	License No.: _____
Contact Name: _____	Phone: _____ Fax: _____

Contact Name: _____	Engineer or Architect Company: _____
Address: _____	Contact Person: _____
City: _____ State: _____ Zip Code: _____	Address: _____
Phone: _____ Fax: _____	City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____	Phone: _____ Fax: _____

BUILDING DESCRIPTION - COMMERCIAL		BUILDING DESCRIPTION - RESIDENTIAL	
<b>Building Characteristics</b> Height: _____ No. of stories: _____ Gross area, sq. ft. per floor: _____ Use group: _____ Construction type: <input type="checkbox"/> Reinforced Concrete <input type="checkbox"/> Structural Steel <input type="checkbox"/> Masonry <input type="checkbox"/> Wood Frame <input type="checkbox"/> State Certified Modular	<b>Utilities</b> Water Supply: <input type="checkbox"/> Public <input type="checkbox"/> Private Sewage Disposal: <input type="checkbox"/> Public <input type="checkbox"/> Private Electric Yes <input type="checkbox"/> No <input type="checkbox"/> Gas Yes <input type="checkbox"/> No <input type="checkbox"/> Heating System: Electric <input type="checkbox"/> Oil <input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas <input type="checkbox"/> Sprinkler system: N/A <input type="checkbox"/> <input type="checkbox"/> Full <input type="checkbox"/> Partial <input type="checkbox"/> Other Suppression <input type="checkbox"/> # of Heads	<b>Building Characteristics</b> SF Dwelling <input type="checkbox"/> SF Townhouse <input type="checkbox"/> Depth Width 1st floor: <u>75</u> <u>65</u> 2nd floor: <u>75</u> <u>65</u> Basement: _____ <input type="checkbox"/> Finished Basement <input type="checkbox"/> Unfinished Basement <input type="checkbox"/> Crawl space <input type="checkbox"/> Slab on Grade No. of Bedrooms: <u>4</u> Multi-family dwellings: No. of efficiency units: _____ No. of 1 BR units: _____ No. of 2 BR units: _____ No. of 3 BR units: _____ Other Structure: _____ Dimensions: _____ Footings: _____ Roof: _____ <input type="checkbox"/> State Certified Modular <input type="checkbox"/> Manufactured Home	<b>Utilities</b> Water Supply: <input type="checkbox"/> Public <input type="checkbox"/> Private Sewage Disposal: <input type="checkbox"/> Public <input type="checkbox"/> Private Electric Yes <input type="checkbox"/> No <input type="checkbox"/> Gas Yes <input type="checkbox"/> No <input type="checkbox"/> Heating System: Electric <input type="checkbox"/> Oil <input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas <input type="checkbox"/> Sprinkler system: N/A <input type="checkbox"/> <input type="checkbox"/> NFPA #13D <input type="checkbox"/> NFPA #13R <input type="checkbox"/> Other

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: <u>[Signature]</u>	Print Name: <u>NVA LLC</u>
Title/Company: _____	Date: <u>1/17/02</u>

Checks payable to: **DIRECTOR OF FINANCE OF HOWARD COUNTY**  
 \*\* PLEASE WRITE NEATLY AND LEGIBLY \*\*

FOR OFFICE USE ONLY		
AGENCY: _____ DATE: <u>1/16/02</u> SIGNATURE APPROVAL: <u>[Signature]</u>	DPZ SETBACK INFORMATION: Front: _____ Rear: _____ Side: _____ Side St: _____ All minimum setbacks met? YES <input type="checkbox"/> NO <input type="checkbox"/>	PROPERTY ID: <u>26389</u> Filing fee: \$ _____ Permit fee: \$ _____ Excise tax: \$ _____ Add'l per fee: \$ _____ TOTAL FEES: \$ _____ Sub-total paid: \$ _____ Balance due: \$ _____ Check: <u>175,000</u> Validation: _____
Land/Development/DPZ: _____ State Highways: _____ Building Official: _____ Dev/Engineering/DPZ: _____ Health: _____ Fire Protection: _____ Sediment Control approval required prior to issuance? YES <input type="checkbox"/> NO <input type="checkbox"/>	Historic District: YES <input type="checkbox"/> NO <input type="checkbox"/> Lot Coverage for New Town Zone: _____ SDP/Red-line approval date: _____	Accepted by: <u>[Signature]</u>
CONTINGENCY CONSTRUCTION START <input type="checkbox"/> ONE STOP SHOP <input type="checkbox"/>		
Distribution of Copies: White: Building Official Green: LDD, DPZ Yellow: DED, DPZ Pink: Health Gold: SHA		

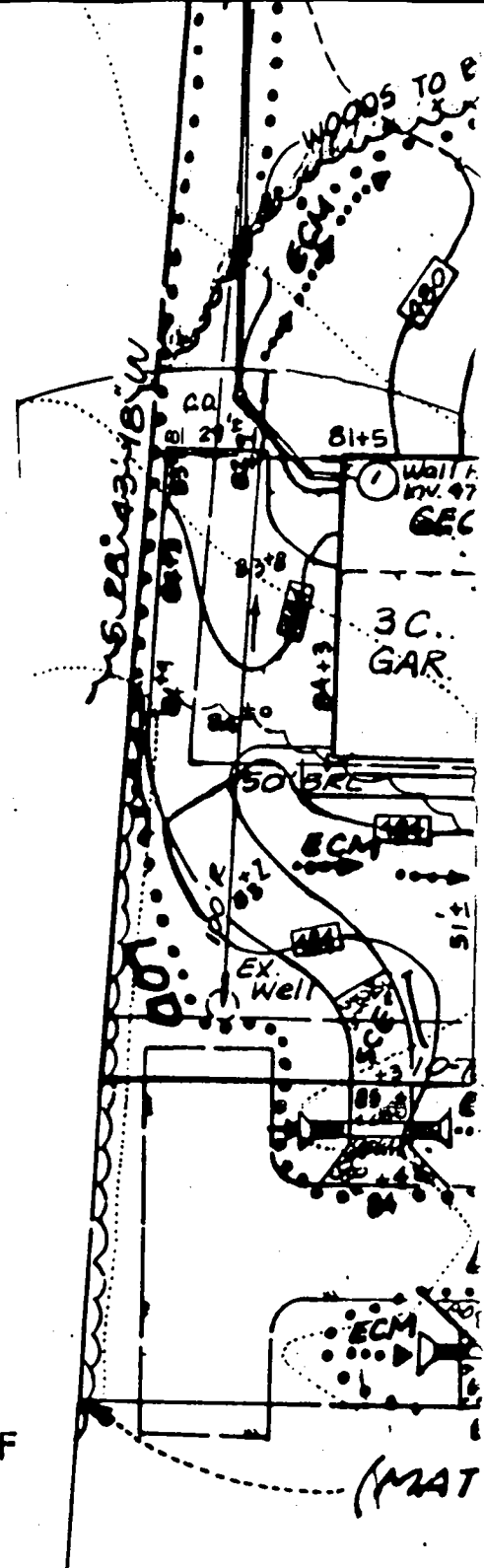
**SEWAGE SYSTEM DESIGN DATA / LOT 38:**

- ① Invert at foundation wall: 449.15
- ② 1500 Gallon Septic Tank (4 Bedrooms)  
Provide Manhole to Finished Grade
  - A. Ex. Ground Over Tank: 450.00
  - B. Prop. Grade Over Tank: 451.00
  - C. Invert In: 448.30
  - D. Invert Out: 448.00
- ③ 1000 Gallon Pump Pit
  - A. Ex. Ground over Pit: 450.00
  - B. Prop. Grade over Pit: 450.00
  - C. Invert In: 447.00
  - D. Invert Out: 447.50
- ④ Distribution Box: (Provide 6 Outlets Minimum)
  - A. Ex. Ground Over Box: 459.00
  - B. Prop. Grade Over Box: 459.00
  - C. Invert In: 456.00

5, Trench Design: 60 LF/Bedrm. X 4 Bedrm. = 240 LF

	(A)	(B)	(C)
Ex. Gr. Over Trench:	457.30	456.00	454.30
Invert Trench:	455.30	454	452.50
Bottom Trench:	453.30	442.00	450.30
Trench Length:	20 Ft.	40 Ft.	60 Ft.
Trench Width:	3 Ft.	3 Ft.	3 Ft.

**NOTE:** TRENCH DESIGN MAY BE REVISED AT TIME OF INSTALLATION BASED ON SITE CONDITIONS.



**ENGINEER'S CERTIFICATE**

"I HEREBY CERTIFY THAT THIS PLAN FOR SEWERAGE AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE DESIGN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND INFORMATION RECEIVED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

*Bruce D. Butcher*  
 SIGNATURE OF ENGINEER



2/15/02  
 DATE

THESE PLANS HAVE BEEN REVIEWED  
 DISTRICT AND MEET THE TECHNICAL

*Jim Meyer*  
 NATURAL RESOURCE CONSERVATION  
 DISTRICT

**DEVELOPER'S CERTIFICATE**

"I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION OF THIS PROJECT WILL MAINTAIN A CERTAIN LEVEL OF ATTENDANCE AT A REGULAR MEETING OF THE HOWARD SOIL CONSERVATION DISTRICT."

THIS DEVELOPMENT PLAN IS APPROVED  
 CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

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: Robert L. Feezer Co. Inc Telephone #: 410-781-4655  
Address: 6321 Barnett Ave.  
Sykesville, MD

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer  
License # and name of individual responsible for the field installation:  
Name (Print): Robert L. Feezer License# 2122

\*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: NV Homes Telephone #: 410-721-9703  
Subdivision: Garbutt Lot #: 38 Well Tag #: HO-99-3093  
Site Address: 3100 Sebecus Church Trail  
Ellicott, MD 21042

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit  
Make: SPYDOR HL-03 Make: Campbell Two piece watertight cap:   
Model #: 5fa-R1A Model#: PT 800 Screened, vented well cap:   
Pump Capacity 5 GPM Depth: 46" (36" min) Cap secured to casing:   
Well Yield: 4.22 GPM NSF approved:  Conduit min 18" B.G.:   
Depth of well encountered at time of pump installation: 300 (feet) Conduit secured to well cap:   
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: Poly PVC sleeved to undisturbed soil at wall penetration:  } under  
PSI: 200 (160 psi min) Approximate length of sleeve: 5' } footer  
Depth of supply line: 40 (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.

Robert L. Feezer 9/23/03  
Signature of company representative responsible for installation date

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

Date Insp. Requested: \_\_\_\_\_ Date Insp. Approved: 11/26/03  
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 \_\_\_\_\_

Approved  
Without  
Evidence of  
Inspection  
Based on  
Plumber's  
Reputation  
(BB)

0732

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)

COUNTY NUMBER 13

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL" 10/11/01 Error In Yield DEP or Time 10-94-3093

OWNER Brantwood LLC STREET OR RFD Seneca Chief Trail TOWN W Friendship SUBDIVISION Brantwood 3/3 SECTION LOT 11

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), CHECK IF WATER BEARING. Includes entries for Overburden and Gray Rock.

GROUTING RECORD form with fields for CEMENT, BENTONITE CLAY, NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL.

CASING RECORD form with fields for MAIN CASING TYPE, Nominal diameter, Total depth of main casing.

OTHER CASING (if used) form with fields for diameter, depth.

SCREEN RECORD form with fields for screen type or open hole, SCREEN RECORD options.

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED YES NO

CIRCLE APPROPRIATE LETTER A-E P

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04...

DRILLERS LIC. NO. MWD 399, DRILLERS SIGNATURE, LIC. NO. JW 0241, SIGNATURE Warren Powell

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

DEPTH (nearest ft.) table with columns for depth ranges and values.

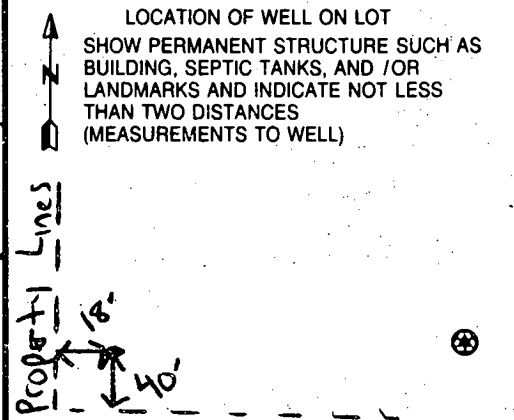
GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

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

TELESCOPE CASING, LOG INDICATOR, OTHER DATA

PUMPING TEST form with fields for HOURS PUMPED, PUMPING RATE, METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL, TYPE OF PUMP USED.

PUMP INSTALLED form with fields for DRILLER INSTALLED PUMP, TYPE OF PUMP INSTALLED, CAPACITY, PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT.



cc Rem on 11/5/01

2001 AUG 31 PM 2:13  
FEDERAL BUREAU OF INVESTIGATION  
U.S. DEPARTMENT OF JUSTICE

**FIELD DATA SHEET**  
**HOWARD COUNTY WELL YIELD TEST**

Well Permit No. HO - 943093  
 Location of property (road) Seneca Creek Trail  
 Subdivision Brantwood 3/3 Lot 11 Block \_\_\_\_\_ Plat \_\_\_\_\_ Sec. \_\_\_\_\_  
 Well Driller Paul Fabiszak Owner Brantwood LLC

Depth of well 300'  
 Distance of measuring point (M.P.) above ground 1'  
 Static water level (S.W.L.) below M.P. 28'

**I. High rate pumping -- reservoir drawdown**

Time pump started 1100 Pumping rate 15gpm  
 Total time 15min to reach pumping water level 223 ft. below M.P.

**II. Recovery pump test data - observations to be recorded every 15 minutes**

TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill 5 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)	
1100	28'	20	10/11/01	15.00	
1115	223'	33	Not Possible If Pumping At 15 GPM for 15 minutes	9.09	
1130	261'	57		5.26	
1145	271'	61	Letter Sent To G. Edgar Harr To Advise Them of Error Future Errors May Require that well be yield tested again	4.91	
1200	278'	70		4.28	
1215	279'	71		4.22	
1230	279'	71		4.22	
1245	279'	71		4.22	
1300	279'	71		4.22	
1315	279'	71		4.22	
1330	279'	71		4.22	
1345	279'	71		4.22	
1400	279'	71		4.22	
1415	279'	71		4.22	
1430	279'	71		4.22	



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HOWARD COUNTY HEALTH DEPARTMENT

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*Diane L. Matuszak, M.D., M.P.H., County Health Officer*

October 11, 2001

Attn: Paul M. Fabiszak  
G. Edgar Harr and Sons  
12047 Falls Road  
Cockeysville, MD 21030

RE: Yield Test  
Brantwood - Lot 11  
Seneca Chief Trail

Dear Mr. Fabiszak:

The yield test sheet sent in for the above lot showed a discrepancy in a time interval and water depth. It is not possible to pump a 6 inch diameter well down from 28 feet to 223 feet in 15 minutes at a pumping rate of 15 gallons per minute. Please advise the person responsible for this yield test to keep more accurate records in the future, or provide a reasonable explanation on how this amount of water can be removed from the well under these circumstances. More errors shown on future yield test sheets may require that those wells be yield tested again.

Sincerely,

*Brian Baker*

Brian Baker, R.S.  
Well and Septic Program

Cc: File

8 7 7090

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL W 5/52/ Please print or type

STATE PERMIT NUMBER

HO-94-3093 fill in this form completely

Date Received (APA) 04/23/01

OWNER INFORMATION

Brantwood LLC 8835 P Columbia 100 Pkwy Columbia MD 21045

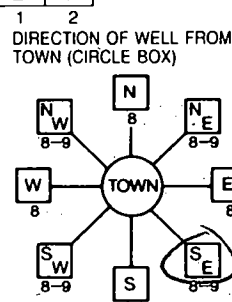
LOCATION OF WELL

Howard Brantwood 23 SUBDIVISION SECTION 3 LOT 11 Area 3 West Friendship NEAREST TOWN

DRILLER INFORMATION

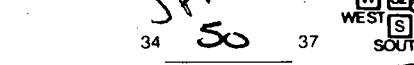
Paul M. Fabiszak M W D 399 G. Edgar Harr Sons' Corp. 12047 Falls Road, Cockeysville 21030

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Seneca Chief Trail NEAR WHAT ROAD

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



DISTANCE FROM ROAD ENTER FT OR MI

TAX MAP: BLK: PARCEL:

WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) 5 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 750

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 13 COUNTY NAME COUNTY NO. DATE ISSUED 04/30/01 CO SIGNATURE EXP. DATE 4/30/02

APPROXIMATE DEPTH OF WELL 250 FEET APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1. Well 2. 3. WRITE THE BOX NUMBER FROM THE MAP HERE E 820 N 520

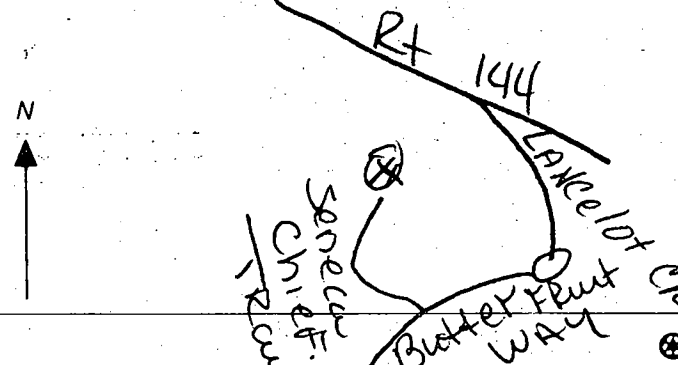
METHOD OF DRILLING (circle one)

- BORED (or Augered) AIR-ROTary JETTED AIR-PERCussion ROTARY (Hydraulic Rotary) CABLE REVERSE-ROTary DRIVE-POINT

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

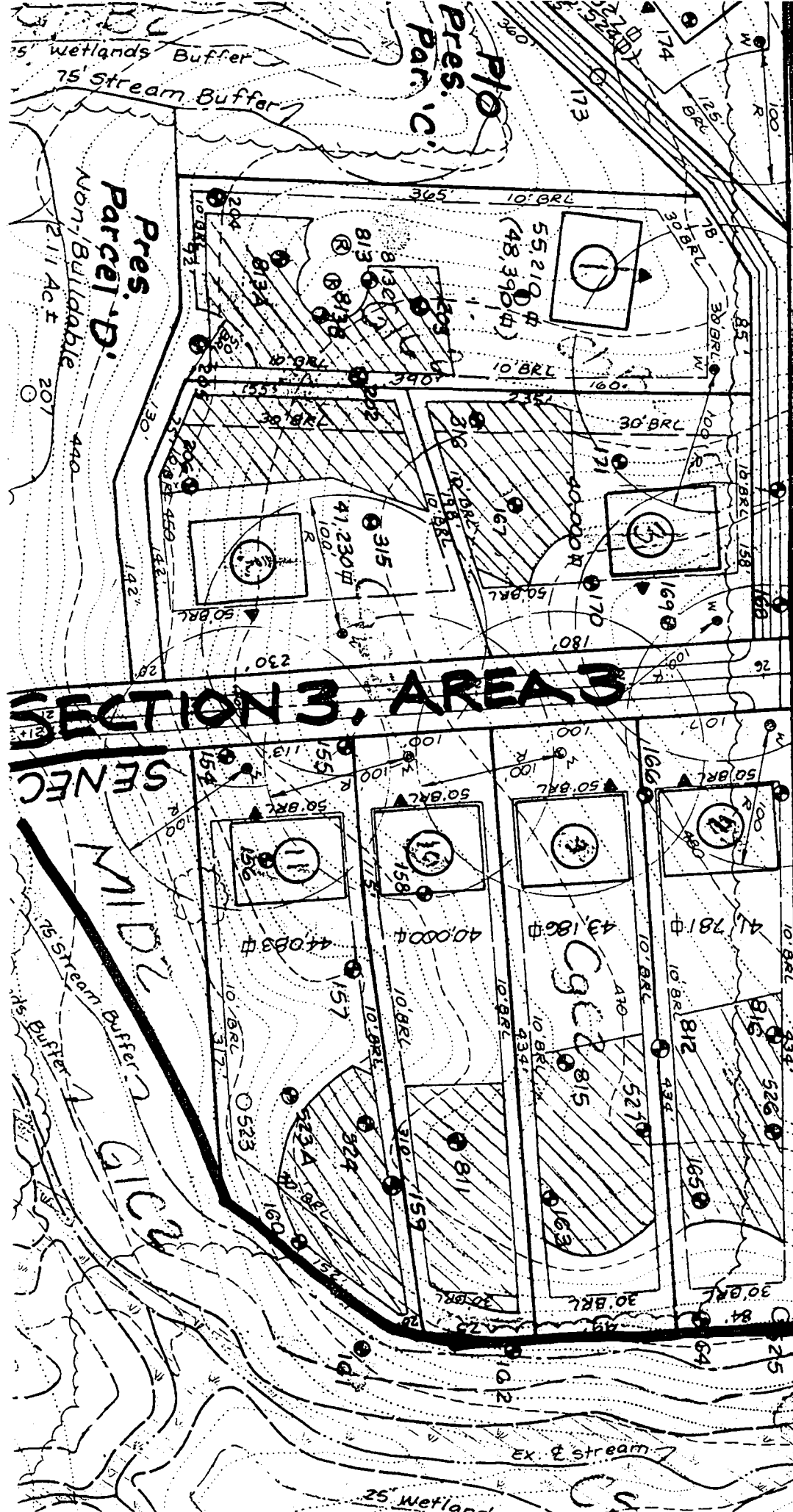
- THIS WELL WILL NOT REPLACE AN EXISTING WELL THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS THIS WELL WILL DEEPEM AN EXISTING WELL

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 HQ 98 - G 003 PERMIT No. HO-94-3093

SPECIAL CONDITIONS NOTE - APPROVING AUTHORITY/IF SHOULD USE SEPARATE SHEET IF NEEDED



**SECTION 3, AREA 3**

SENECA

MIDDLE

25' Stream Buffer

GIC

25' Wetlands

Ex. Stream

B2  
 4/30/01  
 Well site  
 Staked by  
 WDE 470

HOWARD COUNTY RECREATION AND PARKS  
 2227/110  
 Zoned: RC

SHB2

GID2

B1

N 28° 43' 18"

# APPLICATION

PERCOLATION TESTING

A 510571 S

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. 19

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 \_\_\_\_\_

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 S

COUNTY #

SOIL PROFILE

158

orange brown cl lm

beige orange siltm mica flecs 10% shale

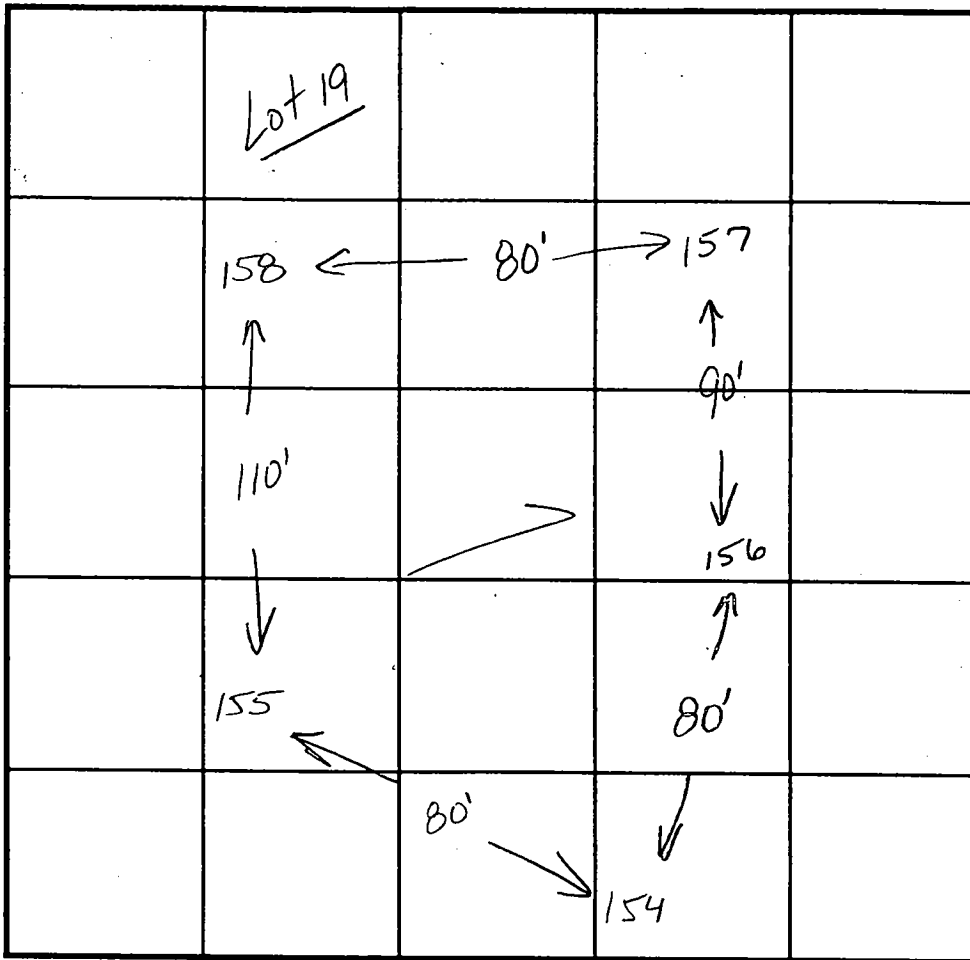
157

Same as test hole #158

156

orange brown cl lm

beige siltm mica flecs 10% shale



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE 155

orange cl lm

beige siltm mica flecs 10% shale frags

154

Same as hole #156

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8-26-98	158	12.0'D	visual	ok - see profile			
	156	4.0'S	10:41 <sup>30</sup>	10:48 <sup>10</sup>	10:47 <sup>10</sup>	10:50	150
	157	11.0'D	visual	ok - see profile			
	157	2.5'S	10:36	10:47 <sup>30</sup>	10:47 <sup>30</sup>	10:59 <sup>10</sup>	1/min
		10.0'D	visual	ok - see profile			
	155	3.0'S	10:52 <sup>30</sup>	10:55 <sup>30</sup>	10:55 <sup>30</sup>	11:08	1230
		11.0'D	visual	ok - see profile			
	154	11.0'D	visual	ok - see profile			

REMARKS test holes staked by surveyor

TYPE OF SOIL

TESTED BY

Kim Maisto

ALSO PRESENT

Tim Feaga

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

8-9 minutes

TRENCH WIDTH

30

INLET DEPTH

3.5

MAXIMUM BOTTOM DEPTH

5.5

SQ. FT/BEDROOM

210

# APPLICATION

PERCOLATION TESTING

A 510571 T

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 \_\_\_\_\_ LOT NO. 20 16-18

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

Brantwood II

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 \_\_\_\_\_

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 T

COUNTY #

SOIL PROFILE

159

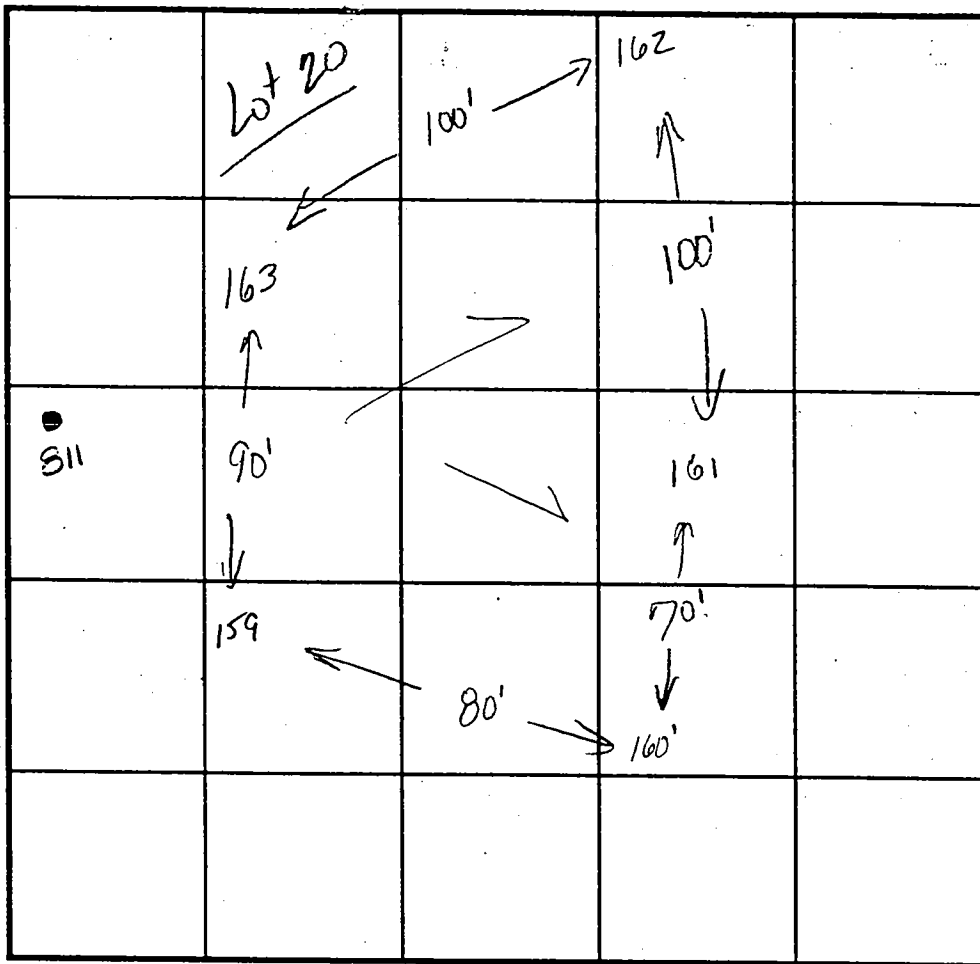
Orange  
cl 1m  
beige/  
orange  
sclm  
20%  
saprolite  
frags

161

orange  
cl 1m  
brown  
sclm  
30%  
rock  
frags

160

Same  
as  
hole  
# 161



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

162

orange  
cl 1m  
beige/  
tan  
sclm  
mica  
flocs  
10%  
rock  
frags

811

orange  
brown  
sclm  
beige  
sclm  
20%

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8-24-98	159	3.0'S	10:2135	10:2235	10:2235	10:24	1:25
		10.5'D	visual	ok	- see profile		
	161	3.0'S	10:2640	10:3440	10:3440	10:3850	4 min
		10.0'D	visual	ok	- see profile		
	160	10.5'D	visual	only	- ok see profile		
	162	11.0'D	visual	only	- ok see profile		
11-8-99	811	See profile					OK
8-24-98	163	3.0'S	10:2410	10:2545	10:2545	10:2730	2 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

2-3 minutes

TRENCH WIDTH

INLET DEPTH

MAXIMUM BOTTOM DEPTH

SQ. FT/BEDROOM

180

# APPLICATION

PERCOLATION TESTING

A. 511420

P. \_\_\_\_\_

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

DISTRICT 3rd

DATE 2/10<sup>17</sup>/99

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 Wendy E. Takacs  
11407 Frederick Road  
ADDRESS Ellicott City, MD 21042 PHONE 410-531-3858

AGENT OR PROSPECTIVE BUYER Brantwood LLC  
8835-P Columbia 100 Pkwy.  
ADDRESS Columbia, MD 21045 PHONE 410-730-0810

PROPERTY LOCATION:

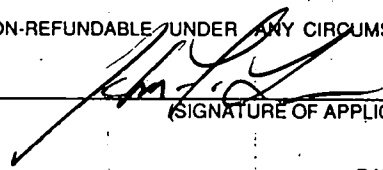
SUBDIVISION Brantwood Section Three LOT NO. B 15-18

ROAD AND DESCRIPTION Cotswold Spring Farm Lane

TAX MAP 16 PARCEL # 205

SIZE OF LOT 40,000 S.F.+ TYPE BLDG. Single Family Dwelling  
(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

COUNTY #

SOIL PROFILE  
523

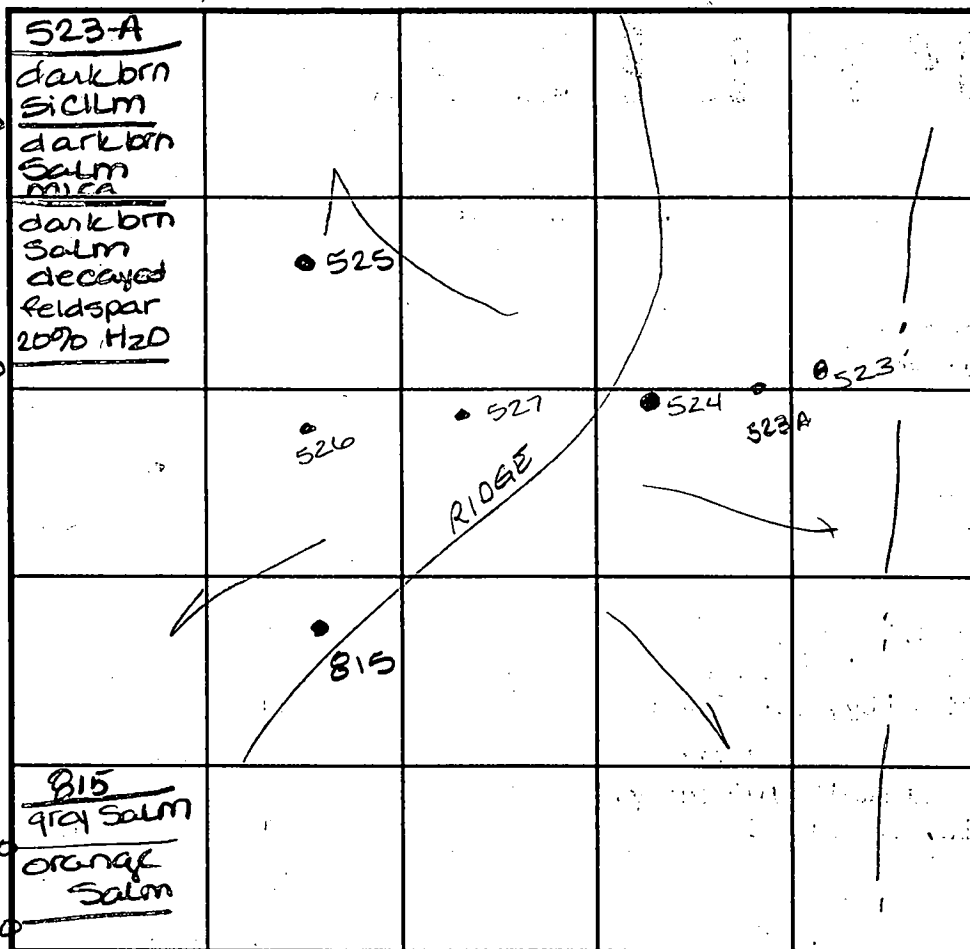
heavy red  
SiCLM  
micaceous  
Salm  
pockets  
of  
quartz  
water  
9.5

524

dark red  
SiCLM  
or  
brown  
Salm  
micaceous  
20-45%  
micaceous  
shale

327

lgt  
yellow  
brn  
SiCLM  
dull  
brown  
micaceous  
Salm  
w/  
pockets  
of yellow  
decayed  
quartzite



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE  
327

no  
distinct  
clay  
layer  
lgt orange  
tan w/  
pockets  
of white  
decayed  
quartzite  
OK

525

water  
10.5  
85' to  
stream

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
3-31-99	523	Insufficient depth to H2O					official
		add 4.0 buffer needed this					
		wet scas. to compensate for dry cond.					F
	524	Visual 12.0					- see profile - OK
	527	Visual to 12.0					- see profile - OK
	526	Visual to 12.0					- see profile - OK
11-8-99	525	Visual - insufficient depth to					
		H2O & too close to stream					F
	523A	See profile - How FOR WET					WET
	815						

REMARKS OK to design SDA 1/2 way between 524 & 523

TYPE OF SOIL

TESTED BY Amy McMillen

ALSO PRESENT Tim Feaga

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH

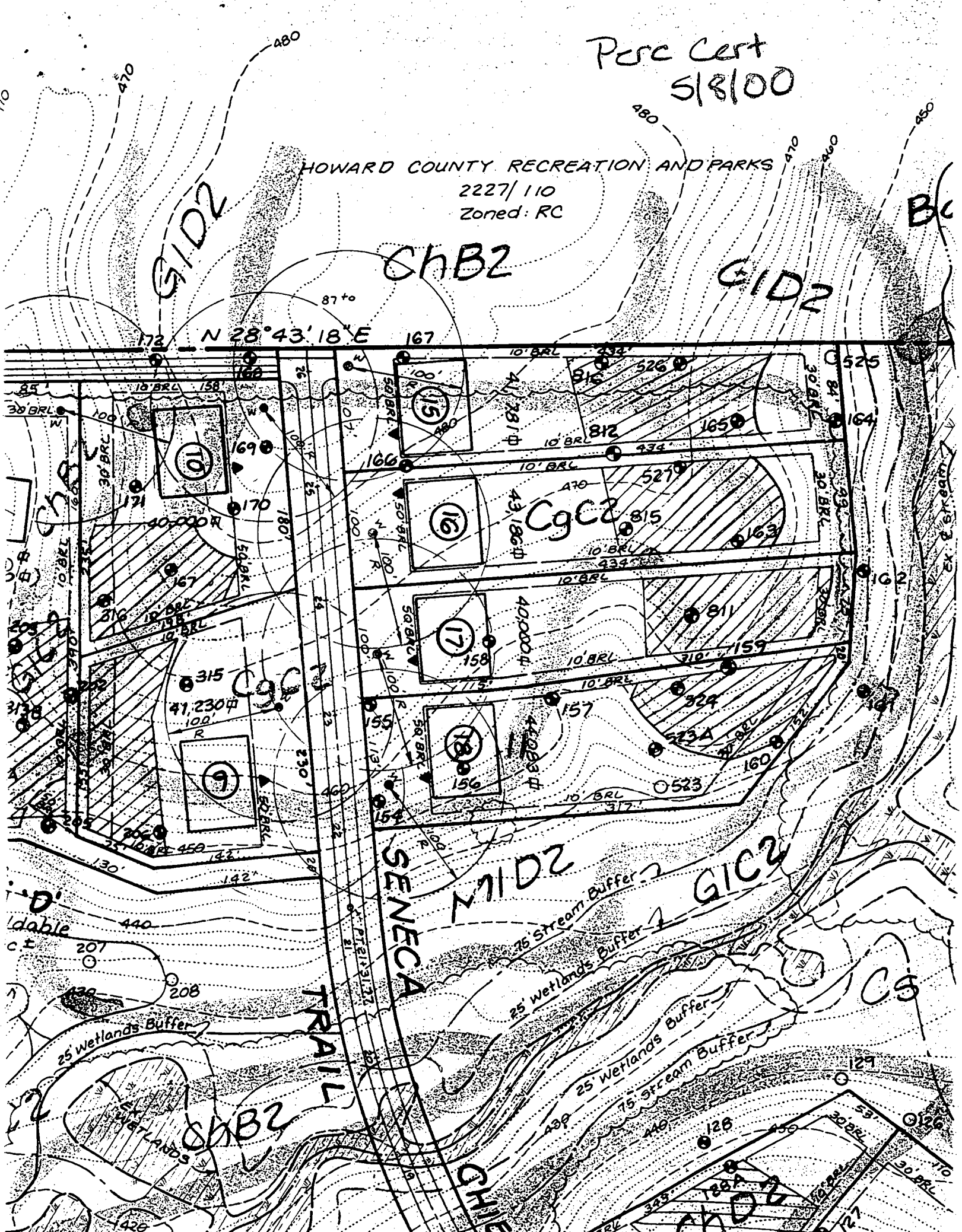
INLET DEPTH

MAXIMUM BOTTOM DEPTH

SQ. FT/BEDROOM

Perc Cert  
5/8/00

HOWARD COUNTY RECREATION AND PARKS  
2227/110  
Zoned: RC



N 28°43'18"E

ChB2

C1D2

M1D2

G1C2

SENECA TRAIL

CHIE

ChB2

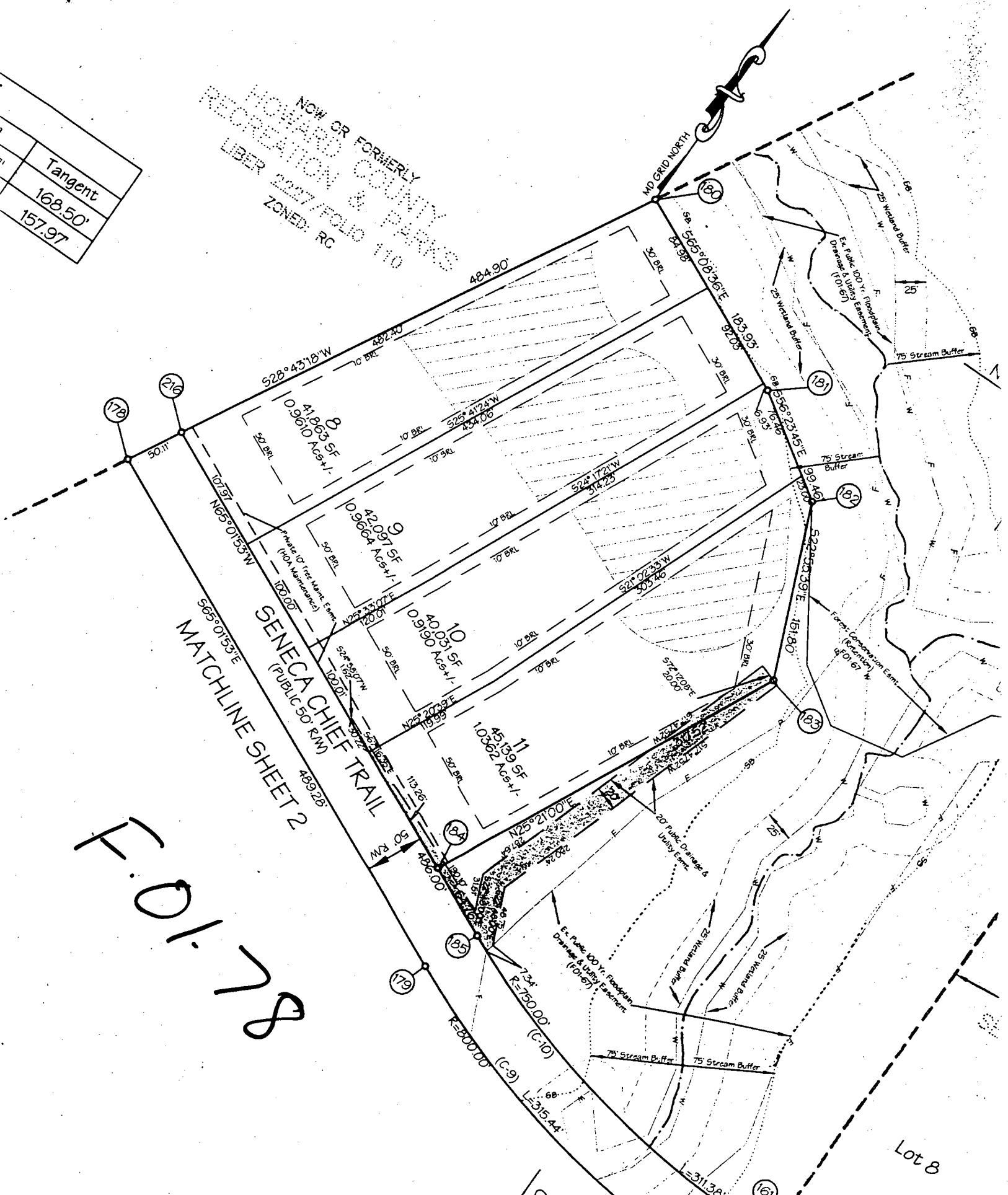
ChD2

CS



Tangent
168.50'
157.97

NOW OR FORMERLY  
HOWARD COUNTY  
RECREATION & PARKS  
LIBER 2007/FOLD 110  
ZONED: RC



F.O. 78

Lot 8