

12/29/00  
Installation Insp  
4/10/01  
10:00  
4/16/01  
NOON

4/12/01  
NOON  
4/13/01  
NOON

4/11/01  
RPS# 317692

# PERMIT

## SEWAGE DISPOSAL SYSTEM

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

P 514923  
A 39717  
ISSUE DATE 02/07/01  
APPROVAL DATE 4/14/01

### INDEXED

Whitworth Excavating IS PERMITTED TO INSTALL X ALTER

ADDRESS 12680 Clarksville Pike Clarksville, MD 21029 PHONE (410) 531-5033  
SUBDIVISION Hawksfield Estates LOT NUMBER 14 ADDRESS 3143 Old Oak Drive  
PROPERTY OWNER Keswick Homes PROPERTY OWNER'S ADDRESS 8521 Leesburg Pike, #200  
SEPTIC TANK CAPACITY 1500 GALLONS LEESBURG, VA 22182  
PUMP CHAMBER CAPACITY N/A GALLONS  
NUMBER OF BEDROOMS 5  
SQUARE FEET PER BEDROOM 240  
LINEAR FEET OF TRENCH REQUIRED 300

**BUILDING PERMIT SIGNED  
AND RETURNED**  
10-8-03 800144478-1408 TUB

TRENCHES: Trenches to be 2 feet wide. Inlet 4.5 feet below original grade. Bottom maximum depth 8.5 feet below original grade. 4.0 feet of stone below distribution box.  
LOCATION: Place distribution box 100 feet off the right lot line (407.96') and 85 feet off the back lot line (290.40') when facing the lot from Old Oak Drive. Run trenches on contour toward the right lot line.

NOTES: - Maintain a minimum separation distance of 100 feet between all wells and any portion of the septic system.  
- REPAIR SPECS: 400 linear feet of trench, Trenches to be 3.0 feet wide, inlet 4.5' below grade. Bottom maximum depth 6.5 feet below original grade. 2.0 feet of stone below distribution box.

OK RPS/28/06

PLANS APPROVED Ronald J. Pinkley DATE 7/31/00

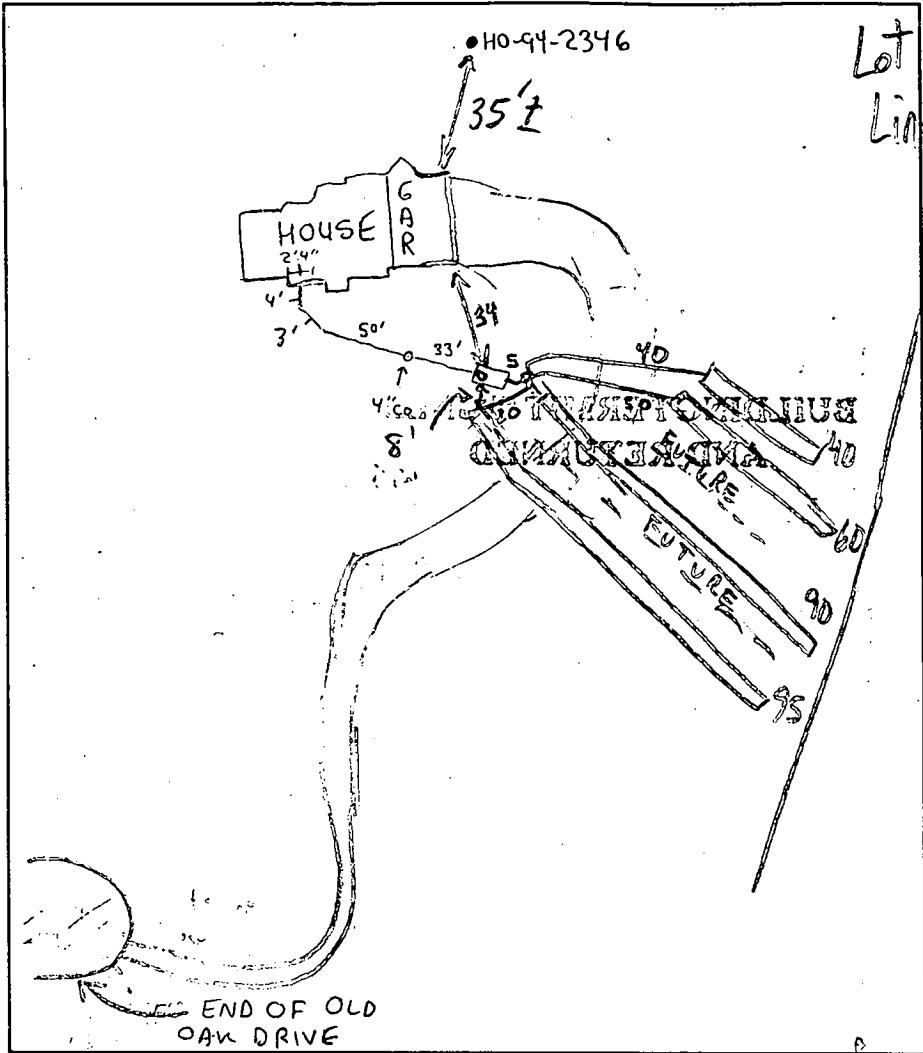
PERMIT VOID AFTER 2 YEARS

- 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

514923

NOT TO SCALE



TRENCH DATA	
TRENCH WIDTH	2
TRENCH INLET DEPTH	4.5 5.5 8.5 4
TRENCH BOTTOM DEPTH	8.5
DEPTH OF STONE	4
NUMBER OF TRENCHES	4
TOTAL TRENCH LENGTH	285
ABSORBENT AREA	1140
DISTRIBUTION BOX LEVEL	<input checked="" type="checkbox"/>
BAFFLE IN DISTRIBUTION BOX	<input checked="" type="checkbox"/>

SEPTIC TANK DATA	
SEPTIC TANK	ex 1500 T.S. GALLONS
MANHOLE RISER	<input type="checkbox"/>
6 INCH INSPECTION PORT	<input checked="" type="checkbox"/>
PUMP CHAMBER DATA	
PUMP CHAMBER GALLONS	NA
MANHOLE RISER	NA
ALARM	NA
PUMP PERFORMANCE TEST	NA

PRE-CONSTRUCTION INSPECTION: *The area is not yet staked. Right lot line is 50 ft closer to house than was expected at a time of recent past still appears to be an oak corner. May have problem getting septic filter to high field from existing house. May check a pump system. We'll see later. RPP 12/29/00 - OK to avoid Big Trees in SDA.*

INSPECTION COMMENTS:

4/6/01- STOP WORK ORDER ISSUED, BUILDER TO GET LICENSED SURVEYOR TO STAKE RIGHT (407.96) PROPERTY LINE AND ALL CORNERS OF <sup>REVISED</sup> SEPTIC AREA, PUMP SYSTEM NEEDED, A 40' TRENCH NEEDS TO BE INSTALLED ABOVE (SLIGHTLY OUTSIDE) OF REVISED SEPTIC AREA (SEE APPROVED BP PLAN) ALSO GRAVEL DRIVEWAY WILL NEED TO BE REMOVED FOR INST. OF SOME TRENCHES

(SRK) 4/10/01- STOP WORK ORDER LIFTED, OK TO INSTALL TOP 40' TRENCH w/ INLET AT 5 1/2' or deeper, with 3' of stone preferably under pipe or if inlet drops to below 5 1/2' OK to bring stone above pipe, Bottom of top trench to be 8 1/2' deep, rest of trenches to be 4 1/2' inlet, 8 1/2' bottom, 4' of stone. (SRK) (Keep 3' of stone regardless)

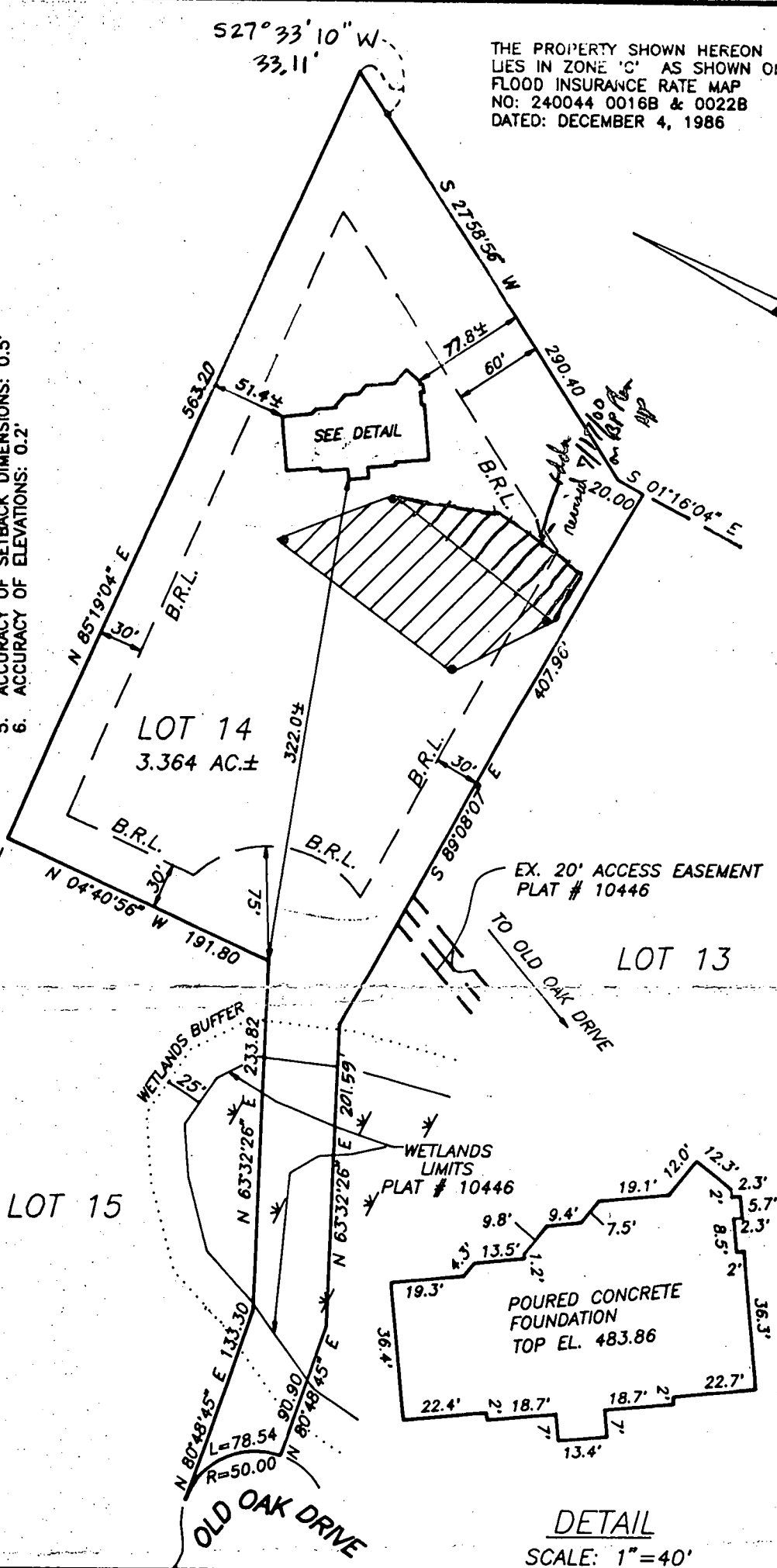
INSPECTOR Mr. Ripkin DATE SYSTEM APPROVED 4/14/07  
 4/13/01 ADVISED INSTALLER TO SKIP 1 TRENCH "SLOT" FOR 3rd TRENCH AND SKIP ANOTHER TRENCH "SLOT" FOR 4th TRENCH, CONTINUE (MR)  
 4/14/01 OK TO COVER S.S.; WPI OK ALSO (MR)

THE PROPERTY SHOWN HEREON  
LIES IN ZONE 'C' AS SHOWN ON  
FLOOD INSURANCE RATE MAP  
NO: 240044 0016B & 0022B  
DATED: DECEMBER 4, 1986

**NOTES:**

1. THIS PLAT IS OF BENEFIT TO A CONSUMER ONLY INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENT IN CONNECTION WITH CONTEMPORARY TRANSFER, FINANCING, OR REFINANCING.
2. THIS PLAT IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATION OF FENCES, GARAGES BUILDINGS, POOLS, BUILDING ADDITIONS OR OTHER EXISTING OR FUTURE IMPROVEMENTS.
3. THIS PLAT DOES NOT PROVIDE FOR THE ACCURATE IDENTIFICATION OF PROPERTY BOUNDARY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING OR REFINANCING.
4. ACCURACY OF BUILDING MEASUREMENTS: 0.1'
5. ACCURACY OF SETBACK DIMENSIONS: 0.5'
6. ACCURACY OF ELEVATIONS: 0.2'

*Well check does not show revised SDA as per BP site plan, but house site is not in conflict with well or septic. OK to issue septic permit. App 1/5/01*



I HEREBY CERTIFY THAT I HAVE LOCATED THE IMPROVEMENTS AS SHOWN. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY AND CANNOT BE USED TO ESTABLISH PROPERTY LINES OR CORNERS.

*Shanaberger*  
**SHANABERGER & LANE**  
 8726 TOWN AND COUNTRY BE...  
 SUITE 201  
 ELLICOTT CITY, MD. 21043  
 (410)461-9563 FAX:461-9693



LOCATION DRAWING  
 LOT 14  
**HAWKSFIELD ESTATES**  
 LOTS 1 - 23

PLAT REFERENCE #10446  
 ELECTION DISTRICT: THIRD  
 COUNTY: HOWARD  
 SCALE: 1"=100'  
 DATE: AUGUST 15, 2000  
 DATE OF LATEST FIELD WORK: 8/14/00

NOTES:

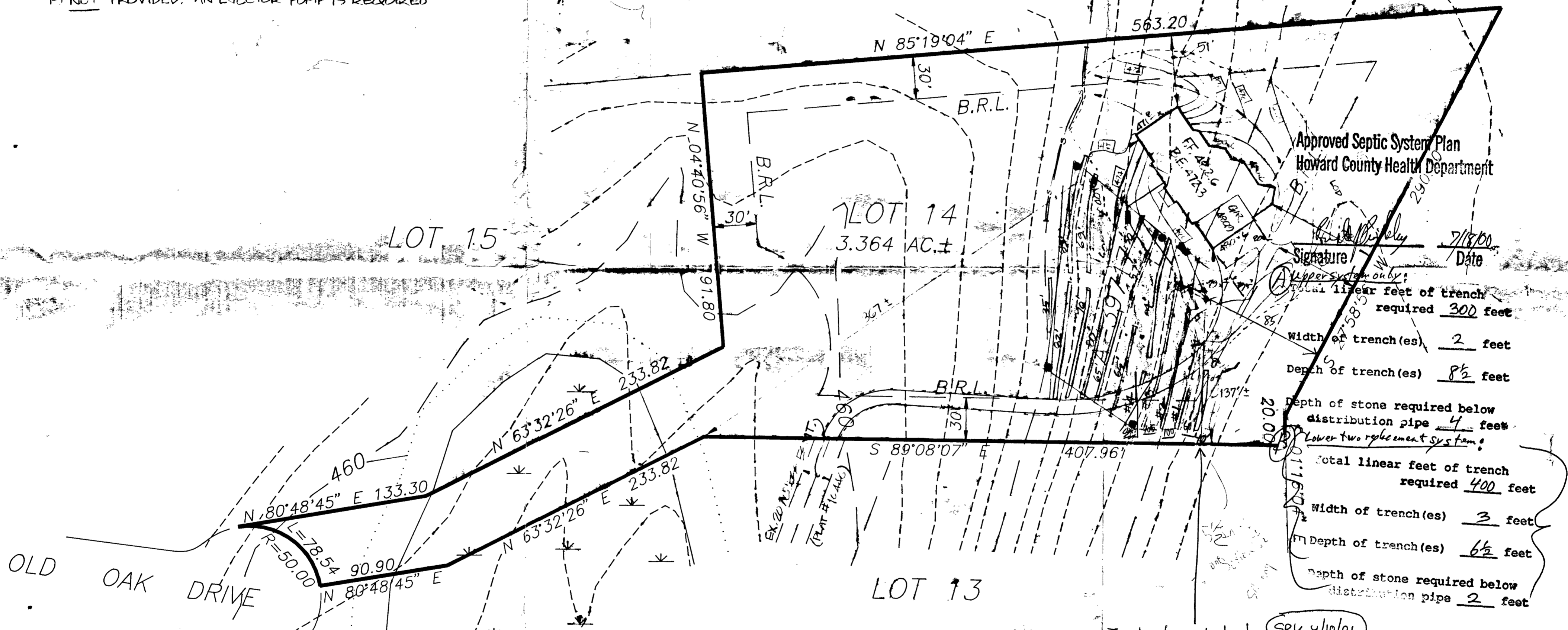
1. THE TOPOGRAPHY SHOWN HEREON IS TAKEN FROM HOWARD COUNTY 1"=200' AERIAL PHOTOGRAMMETRY AND SHOULD BE VERIFIED PRIOR TO EXCAVATION.
2. B.R.L. DESIGNATES BUILDING RESTRICTION LINE  
 ● DESIGNATES SUCCESSFUL PERC TEST  
 ○ DESIGNATES PROPOSED PERC TEST
3. THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT 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. THERE IS A 10,000 S.F. MINIMUM RESTRICTION ON THE SEWAGE EASEMENT.
4. PRIVATE SEWAGE EASEMENT PER PLAT #10446
5. TOTAL AREA DISTURBED: 20,200 SQ. FT.
6. DESIGNATES SILT FENCE
7. GRAVITY SEWER SERVICE TO BASEMENT LEVEL NOT PROVIDED. AN EJECTOR PUMP IS REQUIRED

SEPTIC SYSTEM DATA

INV. AT HOUSE	477.8
SEPTIC TANK	
EX. GRADE	478.5
FIN. GRADE	479.6
INV. IN	477.6
INV. OUT	477.3 OK
DISTRIBUTION BOX	
EX. GRADE	491.0
FIN. GRADE	479.4
INV. IN	476.7 OK
INV. OUT	476.9

TRENCHES	#1	#2	#3	#4
EX. GRADE	491.1 OK	498.0	478.5	477.5
FIN. GRADE	491.1	475.5	479.0	478.0
INV. IN	476.6	471.3	470.0	469.0
INV. OUT	472.6	471.3	470.0	469.0
BOTTOM LENGTH	61'	100'	100'	30'

NOTE: TRENCHES TO BE INSTALLED PRIOR TO FILL IN SEPTIC AREA



Approved Septic System Plan  
Howard County Health Department

Signature: *[Signature]*  
Date: 7/18/00

Upper system only:  
Total linear feet of trench required 300 feet  
Width of trench(es) 2 feet  
Depth of trench(es) 8 1/2 feet  
Depth of stone required below distribution pipe 4 feet  
Lower two replacement systems:  
Total linear feet of trench required 400 feet  
Width of trench(es) 3 feet  
Depth of trench(es) 6 1/2 feet  
Depth of stone required below distribution pipe 2 feet

Trench Layout to be SRK 4/10/01  
 40' → Inlet 5 1/2'?, Bottom 8 1/2', 3' stone 120  
 60' → " 4 1/2' " 4' stone 240  
 100' → " 4 1/2' " 4' stone 400  
 100' → " 4 1/2' " 4' stone 400

1200ft 940  
1040 - 120  
180 1860  
SITE PLAN  
LOT 14  
HAWKSFIELD ESTATES  
LOTS 1-23  
PLAT #10446  
THIRD ELECTION DISTRICT, HOWARD COUNTY, MD  
TAX MAP 16 & 23, PARCEL 40 & 228  
ZONED: RC-DEO  
SCALE: 1"=50'  
DATE: MAY 18, 2000

5/22/00  
*[Signature]*  
SHANABERGER & LANE  
8726 TOWN & COUNTRY BLVD.  
SUITE 201  
ELLCOTT CITY, MD. 21043  
PHONE: 410-461-9563  
FAX: 410-461-9693

**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: EHRHARDT BROTHERS Telephone #: 410-997-8414  
Address: 10684 HIGHBEEM CT  
COLUMBIA, MD 21045

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer  
License # and name of individual responsible for the field installation:  
Name (Print): JAMES CASEY BIDDIX License# WSSC 70418  
\*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: GEORGE SCHWIDEN Telephone #: 410-988-9437  
Subdivision: HAWKSFIELD ESTATES Lot #: 14 Well Tag #: HO-94-2346  
Site Address: 3143 OLDORR DRIVE  
EMMOTTICITY, MD

<u>Submersible Pump Data</u>	<u>Pitless Adapter</u>	<u>Well Cap and Electric Conduit</u>
Make: <u>1 Guild</u>	Make: <u>HARTWELL</u>	Two piece watertight cap: <u>YES</u>
Model #: <u>1 HP.</u>	Model#: <u>1"</u>	Screened, vented well cap: <u>YES</u>
Pump Capacity <u>8</u> GPM	Depth: <u>54</u> (36" min)	Cap secured to casing: <u>YES</u>
Well Yield: <u>8</u> GPM	NSF approved: <u>YES</u>	Conduit min 18" B.G.: <u>YES</u>
Depth of well encountered at time of pump installation: <u>480</u> (feet)		Conduit secured to well cap: <u>YES</u>
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4		
<u>Torque arrestors</u> or <u>Cable guards</u> are required - Must circle one		
Safety rope, if used, attached to inside of well casing with eye bolt _____		

<u>Piping to house</u>	<u>House Connection</u>
Type: <u>PolyEthene</u>	PVC sleeved to undisturbed soil at wall penetration: <u>YES</u>
PSI: <u>160</u> (160 psi min)	Approximate length of sleeve: <u>12'</u>
Depth of supply line: <u>4'</u> (36" min)	Sleeve caulked and sealed properly: <u>YES</u>

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.

Signature of company representative responsible for installation: James Casey Biddix date: 5/31/2001

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

Date Insp. Requested: 4/14/01 Date Insp. Approved: 4/14/01 (MR)<sup>SRK</sup>

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 ✓

C1 06655 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 PRINT OR TYPE

COUNTY NUMBER A39717

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED

Depth of Well 480 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-94-2346

OWNER: Digi Data, last name Old Oak DR, first name W Friendship, TOWN W Friendship, SUBDIVISION Hawksfield, SECTION, LOT 14

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Dirt, Soft br. Mica, Hard Blue Mica, etc.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM), NO. OF BAGS (14), NO. OF POUNDS (1316), DEPTH OF GROUT SEAL (0 to 60 ft).

CASING RECORD: casing types insert appropriate code below (ST, CO, PL, OT), MAIN CASING TYPE (ST), Nominal diameter top (main) casing (6), Total depth of main casing (62).

OTHER CASING (if used) table with columns: diameter inch, depth (feet) from, to.

SCREEN RECORD: screen type or open hole (HO), insert appropriate code below (ST, BR, PL, HO, PL, OT).

WELL HYDROFRACTURED (Y) (N)

CIRCLE APPROPRIATE LETTER: A (well abandoned), 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...

DRILLERS LIC. NO. 1 MND296, DRILLERS SIGNATURE: Ronald Kyker, LIC. NO. 1 D334

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

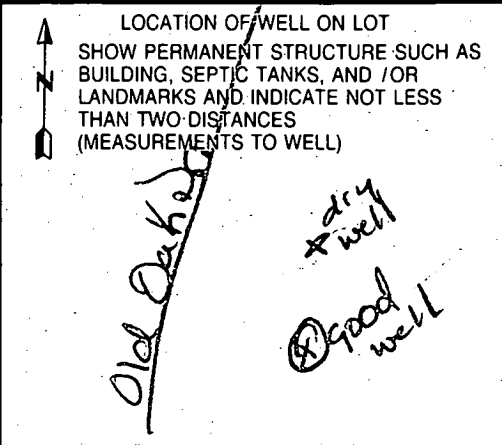
DEPTH (nearest ft.) table with columns: E, A, C, H, S, C, R, E, N and rows for slot size and diameter of screen.

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

PUMPING TEST: HOURS PUMPED (3), PUMPING RATE (8.5), METHOD USED TO MEASURE PUMPING RATE (Submersible), WATER LEVEL (96 ft. before, 167 ft. when pumping), TYPE OF PUMP USED (S submersible).

PUMP INSTALLED: DRILLER WILL INSTALL PUMP (YES/NO), TYPE OF PUMP INSTALLED (S), CAPACITY: GALLONS PER MINUTE (31-35), PUMP HORSE POWER (37-41), PUMP COLUMN LENGTH (43-47), CASING HEIGHT (+ above, - below).







**B 1** 8564 SEQUENCE NO. (MDE USE ONLY)

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-8 ON ALL CARDS)

STATE OF MARYLAND  
 PERMIT TO DRILL WELL  
 please print or type

STATE PERMIT NUMBER  
 40-94-2346  
 70 fill in this form completely 79

Date Received (APA) 072099

**OWNER INFORMATION**

DIGI-DATA HOUSINGS  
 9881 BROKENLAND PKWY  
 COLUMBIA MD 21046

**B 3** LOCATION OF WELL

HOWARD  
 HANKSFIELD ESTATES  
 WEST FRIENDSHIP  
 MILES FROM TOWN (enter 0 if in town) 4 MI

**DRILLER INFORMATION** CIRCLE: MSD/MGD/MWD

Ronald Kyler  
 Westminister Rotary Well Drilling  
 P.O. Box 561 Westminister MD 20858  
 Ronald Kyler (USB) 7/9/99

**B 4** DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

Old Oak Drive  
 NEAR WHAT ROAD  
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  
 DISTANCE FROM ROAD 150  
 ENTER FT OR MI  
 TAX MAP: 16 BLK: 20 PARCEL: 258

**B 2** WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 5  
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 450

**USE FOR WATER (CIRCLE APPROPRIATE BOX)**

HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT)  
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)  
 INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)  
 PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL)  
 TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard Co AS 39717  
 COUNTY NAME COUNTY NO.  
 STATE SIGNATURE DATE ISSUED 073099 A McMill 7/30/00  
 NORTH GRID 530000 EAST GRID 820000

APPROXIMATE DEPTH OF WELL 180 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH

**METHOD OF DRILLING (circle one)**

BORED (or Augered) JETTED Jetted & DRIVEN  
 AIR-ROTARY 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  
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)

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

APPROX. PERMIT NUMBER GAP  
 FORCE AM INITIALS IN BOX PERMIT No. 40-94-2346

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER  
 1. City  
 2.  
 3.

WRITE THE BOX NUMBER FROM THE MAP HERE

820  
 530

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

Old Oak Drive  
 X well

LIMIT OF SUBDIVISION  
E.L.S.A. 3-10

7/30/99  
Well staked  
by surveyor  
S

GRADE TYPE B  
510 DETAIL R.T. II  
BY THE TRIANGULAR  
AND CO. 510 DETAIL R.509

N 88° 19' 04" E

1073.29'

15

3.18 AC.

14

3.30 AC  
NET AREA 3.02 AC

115

116

166

13

4.47 AC

HOUSE

HOUSE

WELL

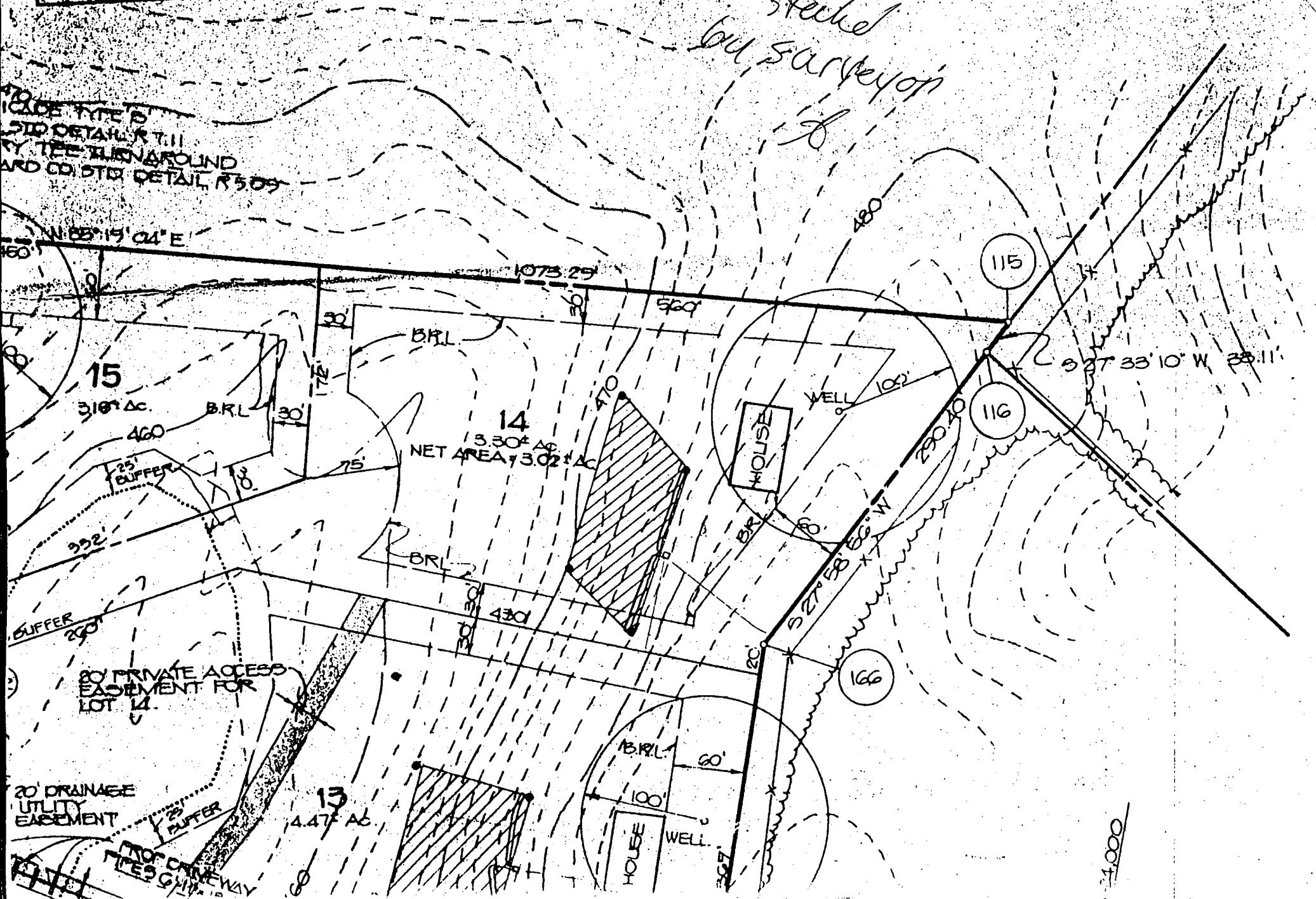
WELL

20' PRIVATE ACCESS  
EASEMENT FOR  
LOT 14.

20' DRAINAGE  
UTILITY  
EASEMENT

TRUCK  
DRIVEWAY

4000



# APPLICATION

PERCOLATION TESTING

A 513370

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH

3525 H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 313-2640

Proposal to modify  
SDA to accommodate  
preferred house site

DISTRICT \_\_\_\_\_

DATE 4/4/00

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 KEBWICK HOMES (JOHN McDONOUGH)

ADDRESS 8521 LEBANON AVE, SUITE 200  
VIENNA, VIRGINIA 22182 PHONE (703) 926-6751

AGENT OR PROSPECTIVE BUYER \_\_\_\_\_

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

PROPERTY LOCATION:

SUBDIVISION HAWKSFIELD ESTATES, SEC 1 LOT NO. 14

ROAD AND DESCRIPTION END OF OLD OAK DRIVE @ CUL-DE-SAC

TAX MAP 16 PARCEL # 40

SIZE OF LOT 3.364 AC TYPE BLDG. SINGLE FAM RESIDENTIAL  
(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] SARAH BERGER-LINE  
(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

513370

Huntsfield lot 14 (Reopen)

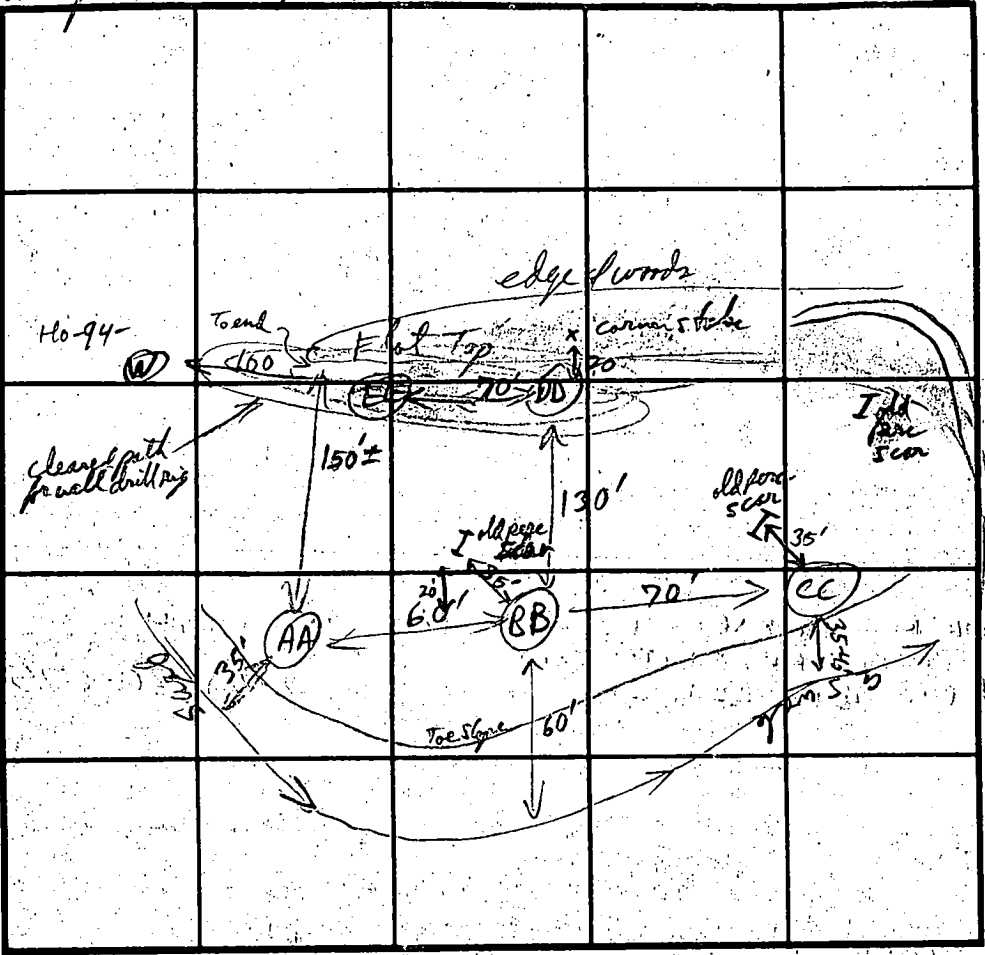
COUNTY #

SOIL PROFILE AA

0' grey Brn SL  
 6" str Brn CL (Mica) (2.0bbk)  
 3' Red Brn hSL (Mica) (1.5bbk)  
 4.5' Red-Red Brn hL-hSL (Mica) (1.5bbk)  
 11.5' @ Bottom

5' Topsoil  
 3-2.5' str Brn (insub) (Mica)  
 5' Red-Red Brn hL-hSL (Mica) (1.5bbk)  
 10.5' some E (SL) water @ 11.5'  
 11.5' 7.5m-c Blk Mn crinators (wet)

EG, DD  
 1.5' Topsoil  
 2' Red Brn hL  
 3.5' Red-Red Brn (Mica) (1.5bbk)  
 v. mica Loom  
 12.5' str Brn hSL (Mica) (1.5bbk)



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE CC

0' yel Brn hL  
 1.5' yel Brn CL  
 3.5' Red Brn hSL (Mica) (1.5bbk) Moist  
 7' Red Brn hSL-L (Mica) Moist  
 9' yel cream with sil - (Mica) Moist  
 11' Mix yel-Red cream L (Mica) c-m sd  
 11.5' Red Brn hSL (Mica) (1.5bbk) Moist  
 11.5' active spring water  
 well 66-94 -2385

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
5/1/00	AA @ 11.5' - 11'	1 1/2' 4 1/2'	11:38:30	11:40:30	11:40:30	11:44:30	4 min
	BB @ 11.5' - 10.5' (ft)	1 1/2' 4'	11:42:00	11:45:30	11:45:30	11:51:30	6 min
	(999) CC	1 1/2' 4'	12:24:05	12:30:00	12:30	12:42:00	12 min
	DD	1 1/2' 3'	12:04:00	12:05:30	12:05:30	12:07:30	2 min
	EE	1 1/2' 3'	12:12:00	12:13:30	12:13:30	12:15:30	2 min

REMARKS New prop. lawn brand is only 30' downhill of old SDA - adjustment here not acceptable (scale + water table)  
 TYPE OF SOIL hit upper area tested is acceptable (Keep Min. distance from wells.)  
 TESTED BY RFB inley ALSO PRESENT Kottson  
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH 3  
 INLET DEPTH 3' MAXIMUM BOTTOM DEPTH 4 1/2' SQ. FT./BEDROOM \_\_\_\_\_

# APPLICATION

PERCOLATION TESTING

A 39717

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
P.O. BOX 476 ELLICOTT CITY, MARYLAND 21043  
TELEPHONE 461-9933

*6/19/88  
only 3 acceptable  
holes  
C*

DISTRICT \_\_\_\_\_

DATE \_\_\_\_\_

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER \_\_\_\_\_

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

PROSPECTIVE BUYER \_\_\_\_\_

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

PROPERTY LOCATION:

SUBDIVISION Hemlockfield Estates LOT NO. 13 14 Preliminary

*(part of orig old 14)  
13 14 Preliminary*

ROAD AND DESCRIPTION \_\_\_\_\_

TAX MAP \_\_\_\_\_ PARCEL # \_\_\_\_\_

SIZE OF LOT \_\_\_\_\_ TYPE BLDG \_\_\_\_\_

(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 \_\_\_\_\_

REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

HOLD PENDING FURTHER TESTS \_\_\_\_\_ DATE \_\_\_\_\_

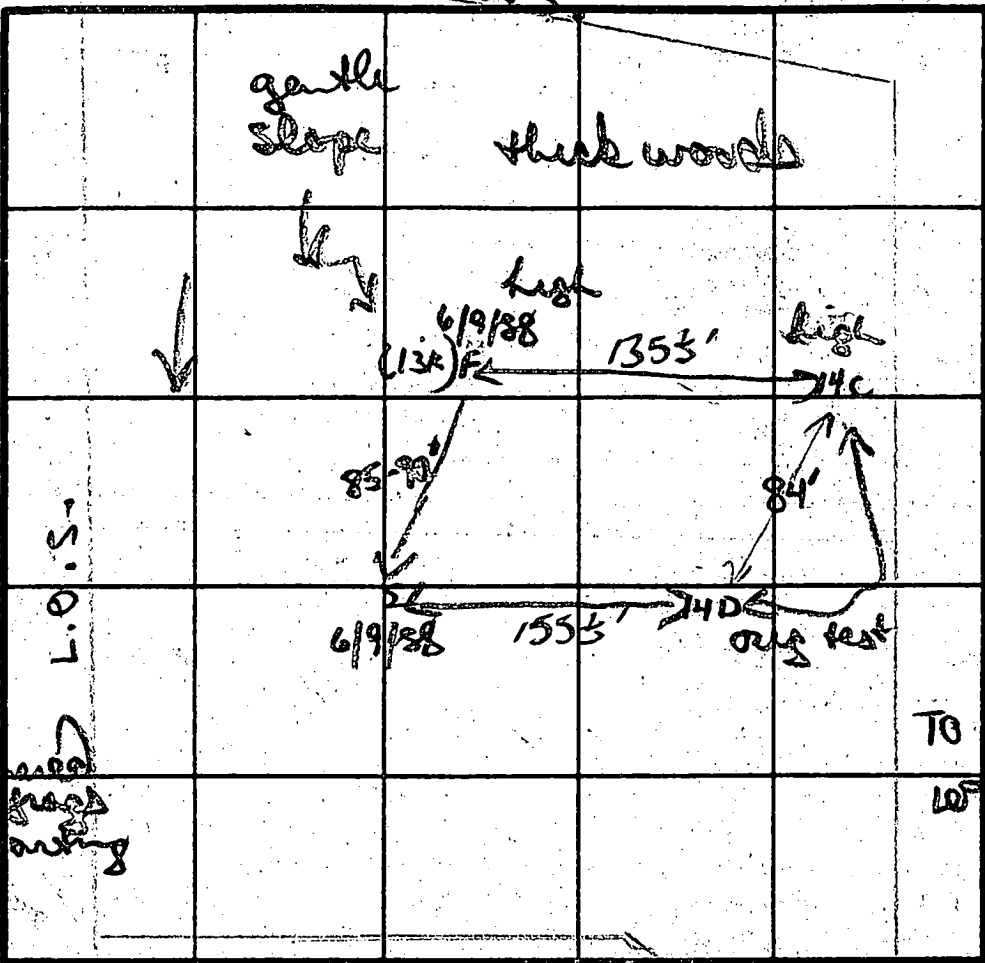
REASONS FOR REJECTION OR HOLDING more testing is possible

till then unacceptable

HD-216

# THIS IS NOT A PERMIT

L.O.S



**F**  
SOIL PROFILE  
yellow/  
brown orange  
clay w/ few  
scattered  
frag  
4-4 1/2'  
to orange/  
brown tan  
silty mica  
even  
10 1/2' D  
watered  
frag  
starting

INLET 43'  
MAX D 8.5'  
X =  
2400/80

**E**  
yellow/brown  
patchy light  
orange  
gravelly (10%)  
clay 3-6'  
5-4 1/2-5 1/2'  
red yellow  
orange  
silty patchy  
clay even  
8 1/2'  
orange  
rocky clay  
even  
(damp) 10 1/2'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1' DROP		TIME	
			START	STOP	START	STOP		
6/19/88	(13K) F	15' 1/2'	407	419	419	442	23 min	
		10 1/2' D	bottom (see profile)					
	E	5' 1/2'	448	505	4 1/2'	FAIC		
		10 1/2' D	bottom (see profile)					
			machine can't go deeper					
7/1/88	Old 13M	5'	2:18	2:19	2:19	2:22	3 min	
	14M	12'	UNIFORM Soil below 3.5-4.0'					
	Old 43C	12'	SAMP AS ABOVE					
	14C	12'	SAMP AS ABOVE					

MARGINAL  
TEST

Planning to use holes 10 1/2' C + D in conjunction w/ new  
holes. F shifted slightly to be closer

REMARKS  
TYPE OF SOIL  
TESTED BY  
ALSO PRESENT

SOIL PROFILE  
yellow/brown orange clay 5', clay silty brown below  
B Nifon  
Ferry

# APPLICATION

PERCOLATION TESTING

A 39717  
P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
P.O. BOX 476 ELLICOTT CITY, MARYLAND 21043  
TELEPHONE 461-9933

*8/17/89  
perc OK'd  
pending approval  
Paul*

DISTRICT \_\_\_\_\_  
DATE 7/15/89

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER RONALD S. LANEVE

ADDRESS 11799 TRIADELPHIA ROAD PHONE 301-531-6161  
ELLICOTT CITY, MARYLAND 21043

PROSPECTIVE BUYER \_\_\_\_\_  
ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

PROPERTY LOCATION  
SUBDIVISION \_\_\_\_\_ LOT NO. 14

ROAD AND DESCRIPTION SOUTH OF MARYLAND ROUTE 144 AND SOUTHEAST OF TRIADELPHIA ROAD

TAX MAP 16623 PARCEL # 40

SIZE OF LOT 3 ACRES 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.

*Ronald Laneve*  
(SIGNATURE OF APPLICANT)

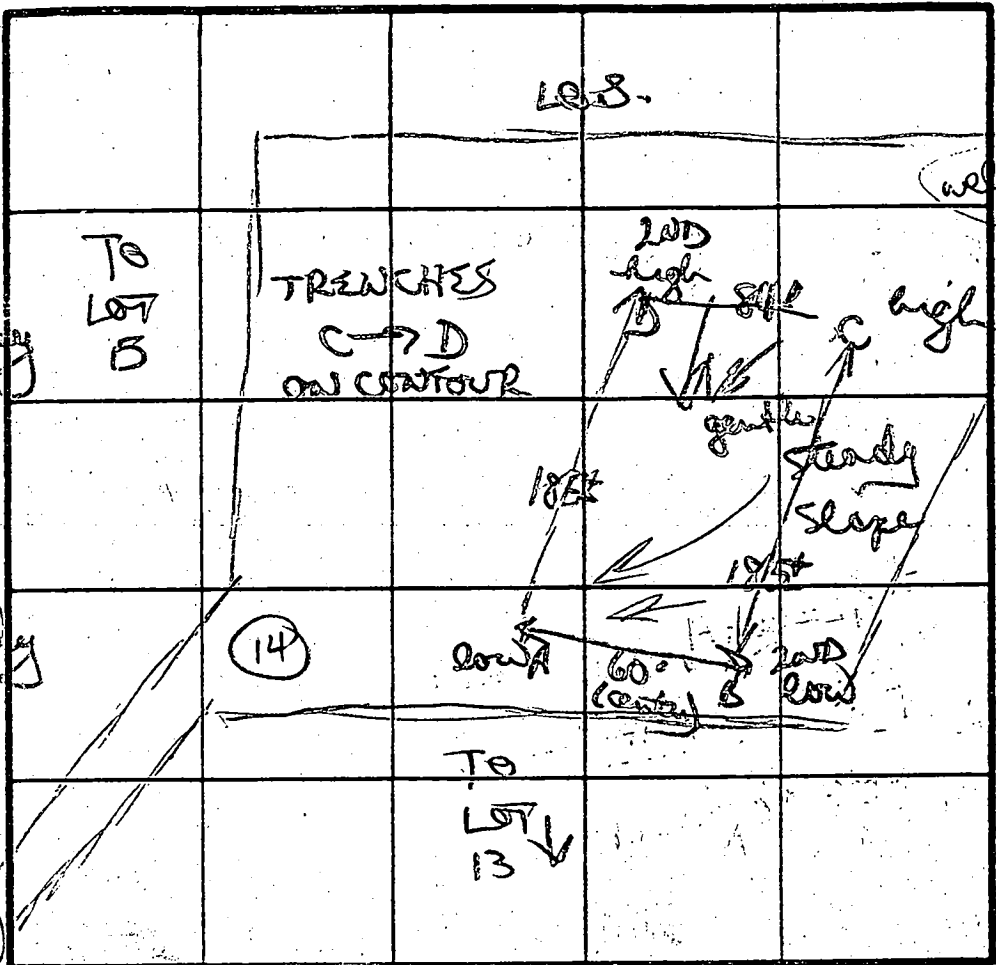
APPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

HOLD PENDING FURTHER TESTS \_\_\_\_\_ DATE \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING for field located & sub-plot

# THIS IS NOT A PERMIT



**A**  
SOIL PROFILE

heavy yellow orange clay 4 1/2'  
to orange some tan gritty clay silty sand loam  
↓  
12 1/2'

**C**

orange tan clay 2 1/2'  
silty clay loam 5'  
to mostly tan fine silty mica loam  
↓  
13' 0"

heavy chunky brown orange clay 4'  
to gritty silty mica loam mix (orange grey brown)  
↓  
12' 0"

**D**

orange yellow clay 4 1/2'  
to orange grey silty clay mix 1 1/2'  
to grey silty w/ 15% sand  
shred tags  
8 1/2'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1' DROP		TIME	
			START	STOP	START	STOP		
2/11/82	A	4 1/2'	438	442	442	447	5 MIN	
		12 1/2'	bottom (see profile)					
	B	4 1/2'	444	451	451	506	15 MIN	
		12' 0"	bottom (see profile)					
	<del>DO BETTER</del> C	3 1/2'	454	510	510	540	30 MIN	
		7 1/2'	455	456	456	458	20 MIN	
		13' 0"	bottom (see profile)					
	D	4' 5"	502	516	516	543	28 MIN	
		11 1/2' - 12' 0"	hard bottom					

220 #/BD  
BURET 42  
M.M. D 8 1/2

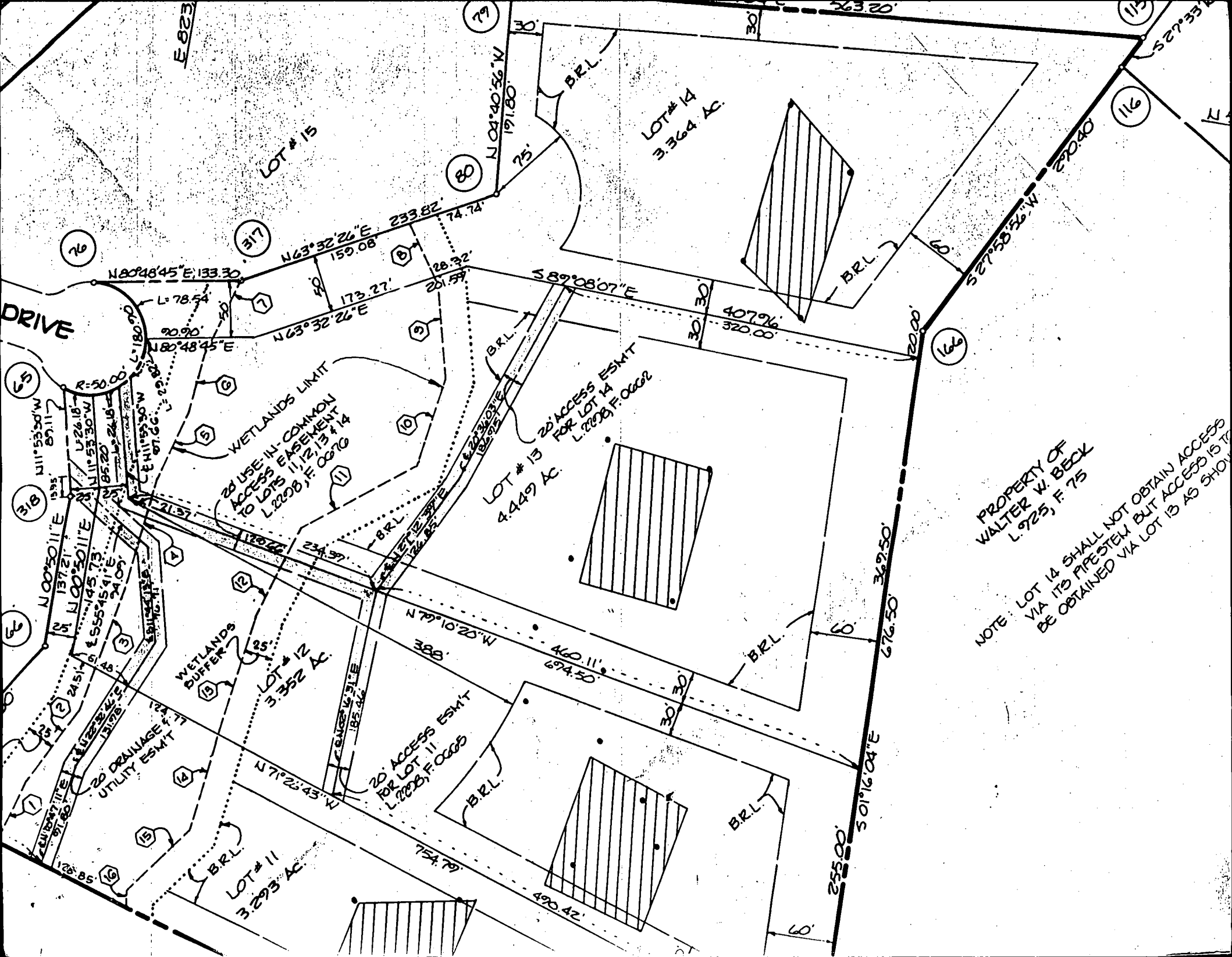
REMARKS: dug & tested as stated. In thick woods (measurements (long) different) orange yellow slays (heavy)

TYPE OF SOIL: \_\_\_\_\_

TESTED BY: B. W. [signature]

ALSO PRESENT: [signature]





LOT # 15  
 LOT # 14  
 3.364 AC.  
 LOT # 13  
 4.449 AC.  
 LOT # 12  
 3.352 AC.  
 LOT # 11  
 3.293 AC.

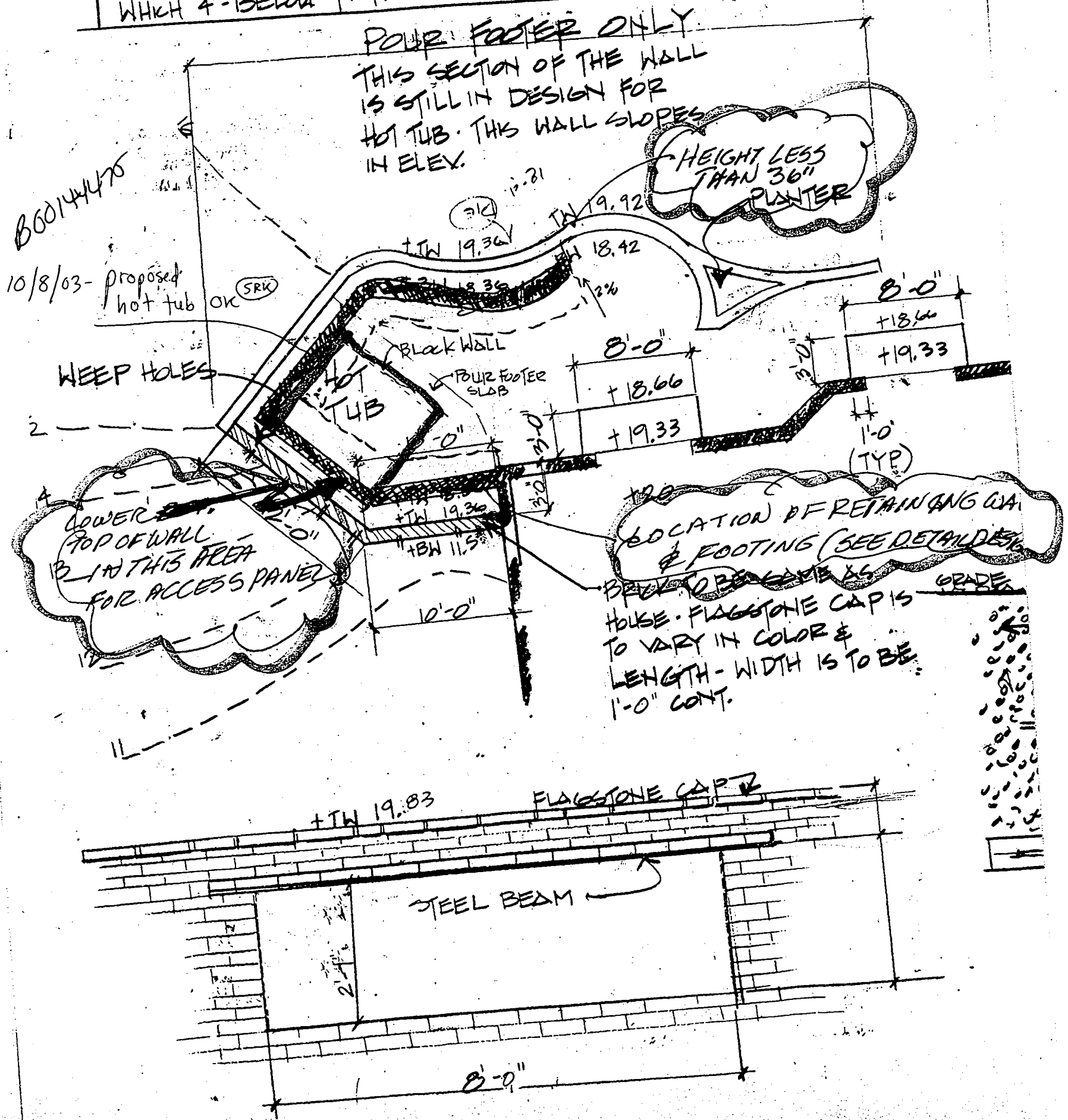
DRIVE  
 WETLANDS LIMIT  
 20' USE IN COMMON ACCESS EASEMENT TO LOTS 11, 12, 13 & 14 L. 2208, F. 0676  
 WETLANDS BUFFER  
 20' DRAINAGE UTILITY ESMAT  
 20' ACCESS ESMAT FOR LOT 11 L. 2208, F. 0668  
 20' ACCESS ESMAT FOR LOT 14 L. 2208, F. 0662  
 B.R.L.

PROPERTY OF  
 WALTER W. BECK  
 L. 925, F. 75  
 NOTE: LOT 14 SHALL NOT OBTAIN ACCESS  
 VIA ITS FIRE SYSTEM BUT ACCESS IS TO  
 BE OBTAINED VIA LOT 13 AS SHOWN



FOOTER SLAB FOR HOT TUB  
 IS TO BE POURED AT ELEV. 14.36  
 WHICH 4'-BELOW FINISH.

Project : 8 ft. Retaining Wall  
 Location: Lot 14 Hawksfield Estates  
 TIME: 06:53 AM  
 DATE: 07-26-2001



RETAINING WALL RESISTING FORCES:  
 Allowable Soil Pressure = 3,000 psf.  
 Passive Equivalent Fluid Press. = 100.00 pcf.  
 Passive Soil Height = 1.00 ft.  
 Coefficient of Friction = 0.50  
 Cohesion = 0 psf.

Use Vertical Surcharge as Resisting Wt.? = Yes  
 Overturning Safety Factor = 2.00  
 Sliding Safety Factor = 1.50  
 Limit Reaction to Mid 1/3? = Yes

MATERIAL DATA:  
 Concrete Strength, f'c = 4.00 ksi.  
 Steel Yield Strength, Fy = 60.00 ksi.  
 Concrete Unit Weight = 145.00 pcf.  
 Soil Unit Weight = 110.00 pcf.  
 Fence Weight = 10.00 psf.

REINFORCING STEEL DATA:  
 Concrete cover to center of steel:  
 Wall Inside Face = 2.50 in.  
 Footing Heel (Top Face) = 2.50 in.  
 Footing Toe (Bottom Face) = 3.50 in.  
 Minimum Ratios for Shrinkage and Temperature Reinf:  
 Vertical Stem Reinf. = 0.0018  
 Horizontal Stem Reinf. = 0.0020  
 Footing Reinforcement = 0.0018

OK