

05-41297

LAYOUT 11/14/02 11AM INSP 4 _____
INSP 2 _____ INSP 5 _____
INSP 3 _____ INSP 6 _____

ISSUE DATE: 11/8/2002

P 517992

APPROVAL DATE: 11/14/02

**PERMIT
INDEXED**

A 37077

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

Fogles Septic Clean, Inc IS PERMITTED TO INSTALL ALTER

ADDRESS: 580 Obrecht Road, Sykesville PHONE NUMBER: 410-795-5670

SUBDIVISION: Highland Meadows LOT NUMBER: 17

ADDRESS: 13516 Narrow Leaf Court PROPERTY OWNER: Greenfield Homes, Inc.

SEPTIC TANK CAPACITY (GALLONS): 1500 OUTLET BAFFLE FILTER REQUIRED

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

NUMBER OF BEDROOMS: 5

SQUARE FEET PER BEDROOM: 180

LINEAR FEET OF TRENCH REQUIRED: 300 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:	No. <u>Place the distribution box as shown on the approved site plan. Run 3-100' trenches on contour. Run 3-100' trenches on <u>center</u>. 10' CTC</u>
NOTES:	<u>Layout insp. critical</u>

runs out of AREA

PLANS APPROVED: Steven R. Krieg OKSRK 10/17/02 DATE: 9/05/2002

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

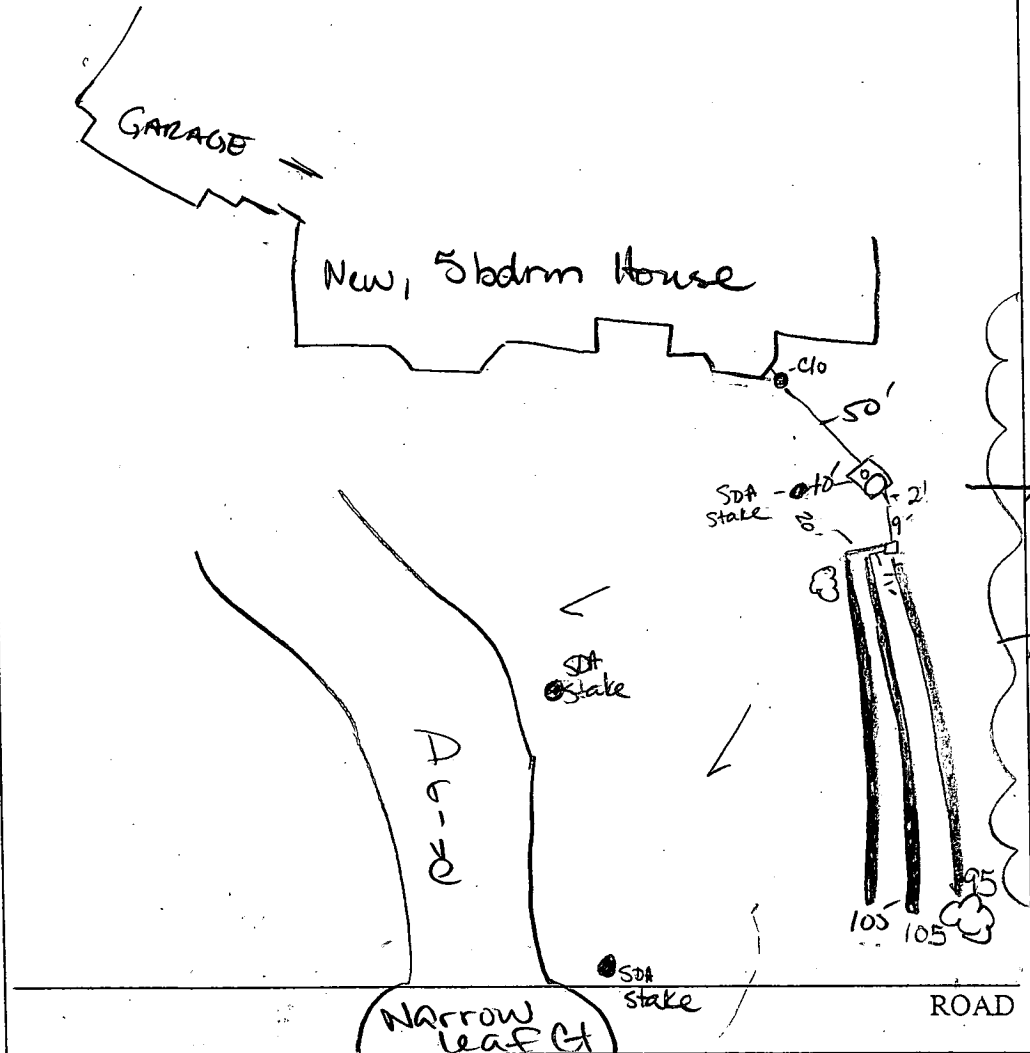
**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS
RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**

BUILDING PERMIT SIGNED AND RETURNED
313-2640 FOR INSPECTION OF SEPTIC SYSTEM

2/3/2003 B00140131 2 PROPANE TANKS - BOTH 1000 GAL 4G TANKS

A 37077

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3	2 1/2'	4 1/2-5
NUMBER OF TRENCHES		3
TOTAL LENGTH		300
ABSORPTION AREA		900 sq ft
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		N/A

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	<input checked="" type="checkbox"/>
CAPACITY	1500 GAL
SEAM LOC	top
TANK LID DEPTH	2'
BAFFLES	yes
BAFFLE FILTER	No
MANHOLE LOC	middle
6" PORT LOC	front
WATERTIGHT TEST	N/A
SEPTIC TANK 2 LEVEL	N/A
CAPACITY	— GAL
SEAM LOC	—
TANK LID DEPTH	—
BAFFLES	—
BAFFLE FILTER	—
MANHOLE LOC	—
6" PORT LOC	—
WATERTIGHT TEST	—

PRE-CONSTRUCTION 11/14/02 3-100' trenches, 10' OUT OF SDA FOR CONTOUR & efficient SDA USAGE. 10' CTC. Will water test d. Box & use levelers. (KN)

INSTALLATION 11/14/02 OK to cover all work (KN)

FINAL INSPECTOR

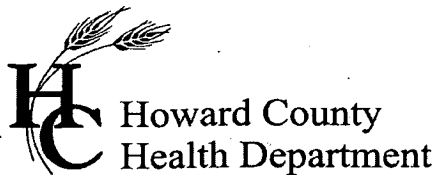
(KN)

DATE OF APPROVAL

11/14/02

REVISIONS

DATE



3525 H Ellicott Mills Drive, Ellicott City, MD 21043
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

March 19, 2004

Greenfield Homes
6656 Luster Drive
Highland, MD 20777

SENT VIA FACSIMILE 443-533-0551

RE: 13516 Narrow Leaf Court
Highland Meadows, Lot 17
BP # B00137608
Well Permit # HO-94-3547

Dear Sirs:

This is to advise you that the septic system for the above referenced property has been installed and inspected. **Final approval of the septic system was granted on 11/14/2002.**

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking. The water sample results were found to be in compliance with COMAR water quality standards.

INTERIM CERTIFICATE OF POTABILITY

This certifies that the **initial** sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit #HO-94-3547. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies. Based upon satisfactory investigation and evaluation, the Howard County Health Department, as authorized by the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.

This certificate may become final upon completion of the second bacteriological test, which is to be taken by the county health department within six months of receipt of this letter. **Please contact (410) 313-1773 to schedule a final water sample appointment. Currently, there is no charge for this final sampling.**

Date of Water Sample: 03/17/2004
Date of Well Completion: 10/28/2002

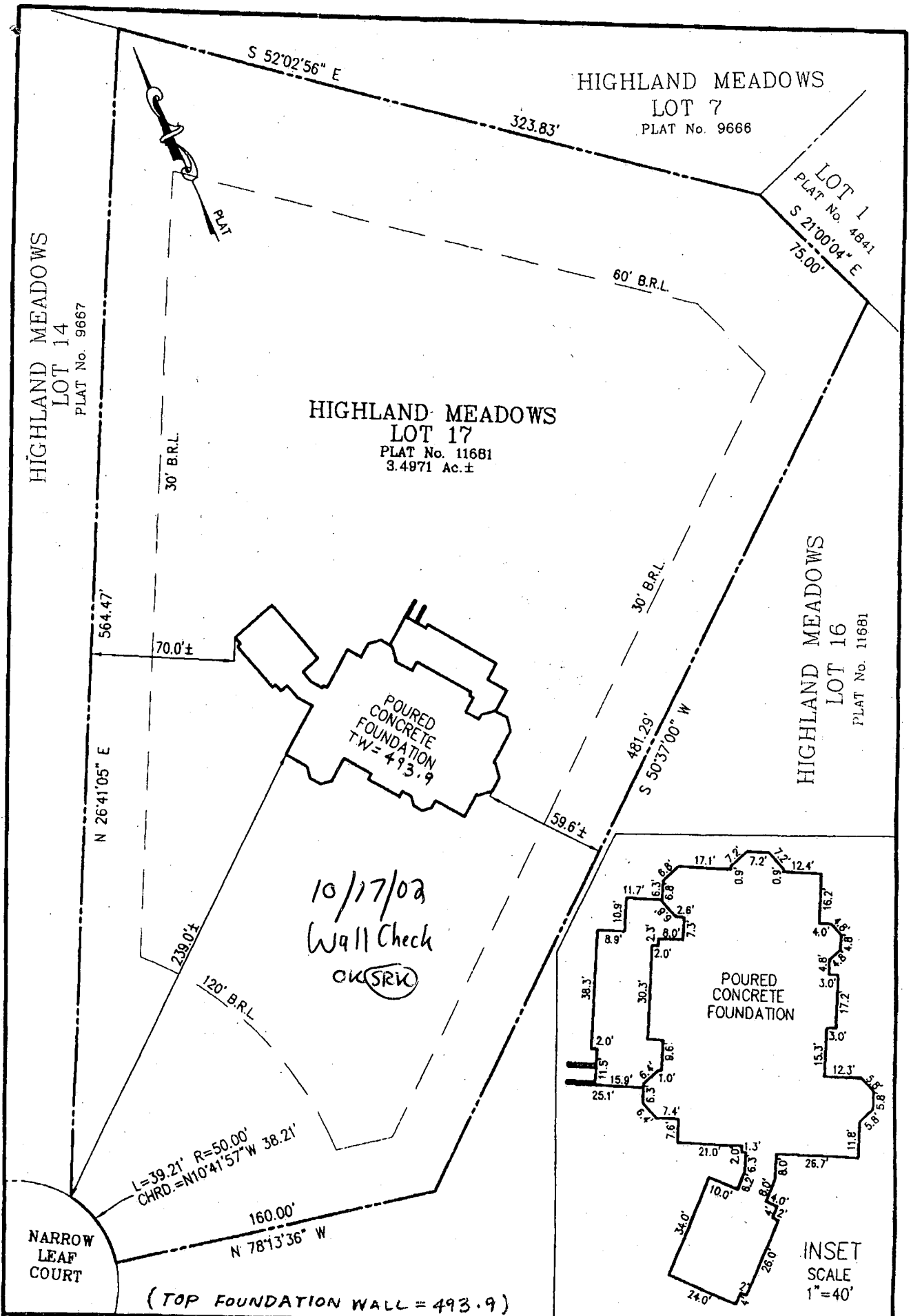
Respectfully,

Brian Baker

Brian Baker, R. S.
Well and Septic Program

bb/mlb

cc: Building Inspector's Office
Community Services Program
File



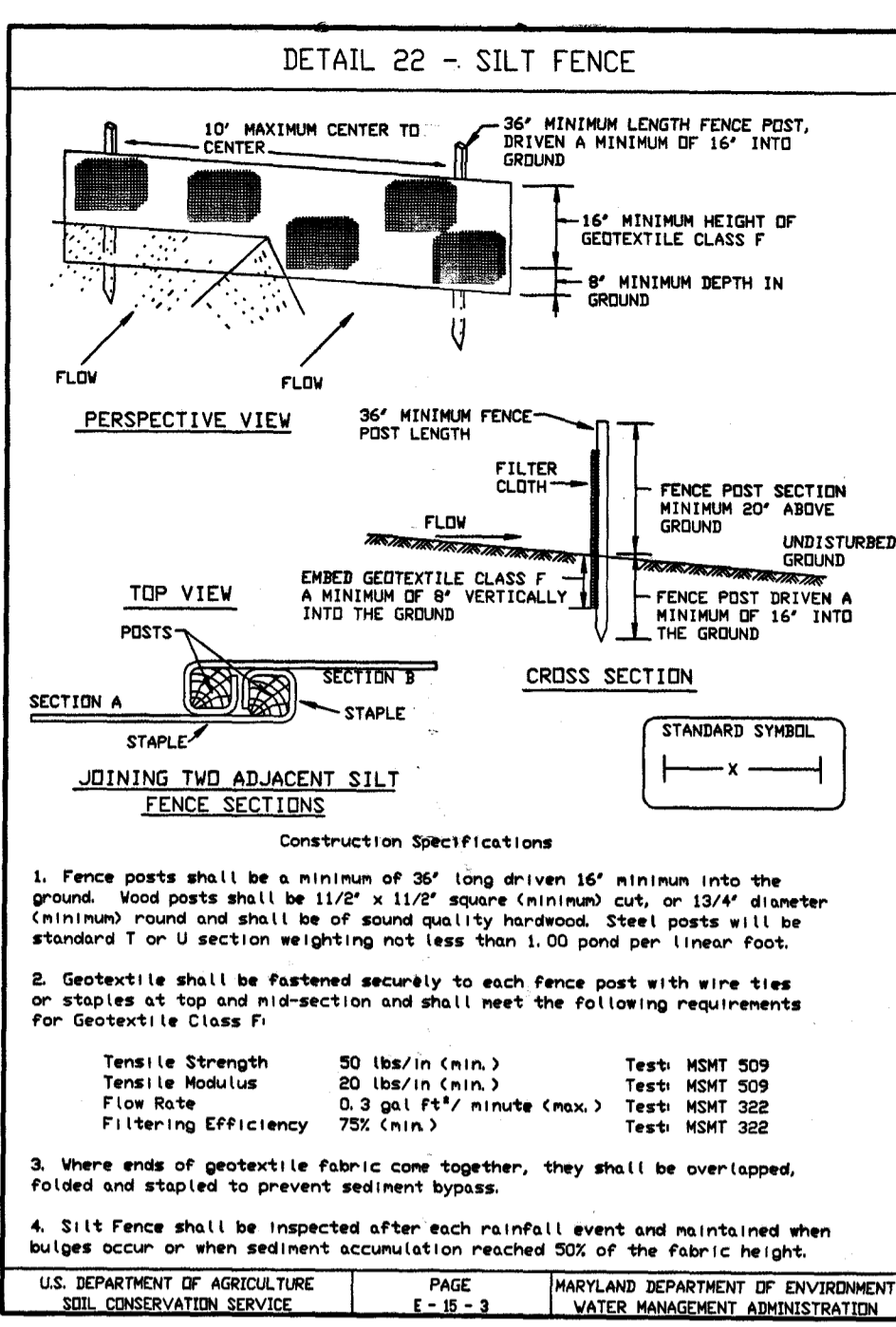
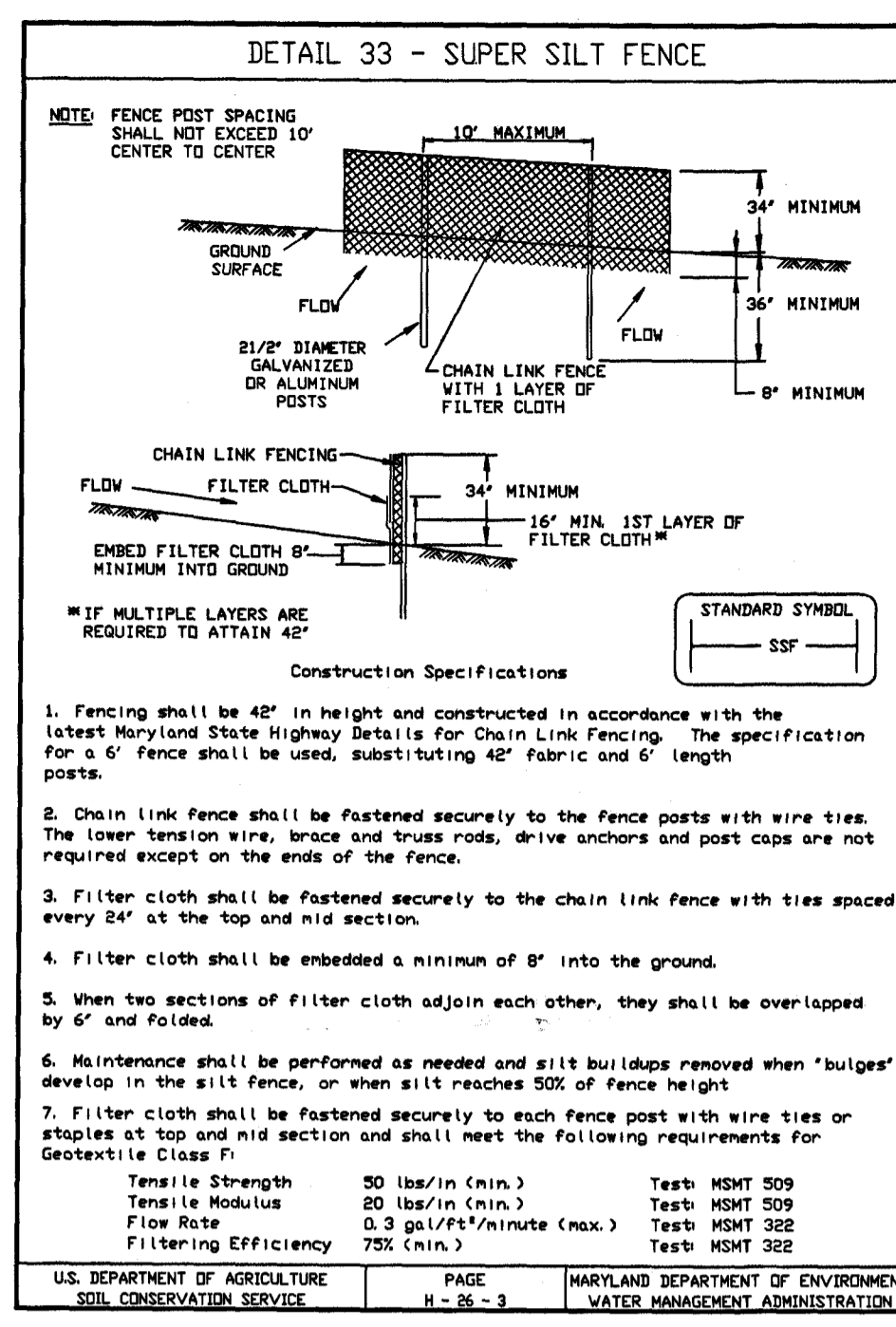
I HEREBY CERTIFY THAT IMPROVEMENTS ARE LOCATED AS SHOWN HEREON AND TO THE BEST OF MY INFORMATION, PROFESSIONAL KNOWLEDGE AND BELIEF, THERE ARE NO ENCROACHMENTS EXCEPT AS SHOWN.

STATE OF MARYLAND
 MOHAMMAD NAJIB ROSHAN
 PROFESSIONAL LAND SURVEYOR
 No. 11049
 M.N. ROSHAN, L.S. DATE 10/08/02
 MD REG. No. 11049

WALL CHECK
 HIGHLAND MEADOWS
 LOT 17
 PLAT No. 11681
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: 1" = 60' DATE: OCTOBER 7, 2002

NJR & ASSOCIATES, LLC.
 LAND SURVEYING AND PLANNING
 1813 MONTEVIDEO ROAD
 JESSUP, MARYLAND 20794
 TEL: (240)508-3200 FAX: (410)799-5523

WALL CHECK - B00137608 13516 NARROW LEAF CT CLARKSVILLE MD.
 GREENFIELD HOMES - RICK MINOR # 410-365-3702
 FOGLES - SEPTIC INSTALLER



SEQUENCE OF CONSTRUCTION :

- OBTAIN GRADING PERMIT.
- INSTALL SEDIMENT CONTROLS AS SHOWN ON PLAN IN ACCORDANCE WITH DETAILS.
- PERFORM NECESSARY GRADING AND STABILIZE THE SITE WITH TOPSOIL AND SEEDING NOTES. ALL DOWNSPOUTS, SWALES, DITCHES AND OTHER CONCENTRATED FLOW AREAS SHALL RECEIVE EROSION CONTROL MATTING.
- AFTER THE SITE IS PERMANENTLY STABILIZED AND PERMISSION IS GRANTED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROLS AND STABILIZE ANY REMAINING DISTURBED AREAS.

SEDIMENT CONTROL NOTES

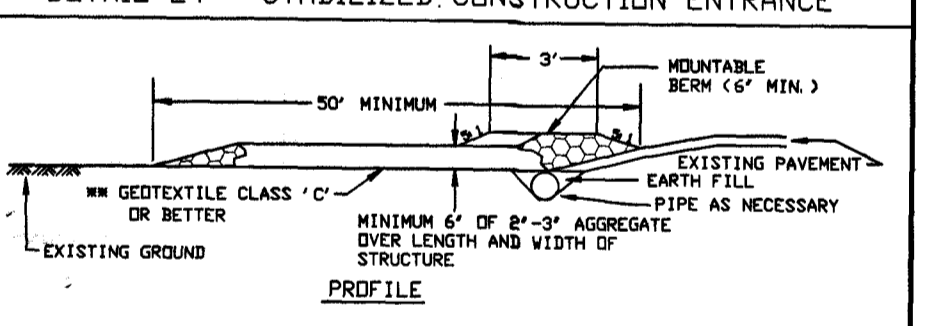
- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (313-1855).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
- Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes perimeter slopes and all slopes steeper than 3:1; b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs placed around their perimeter in accordance with Vol. 1, Chapter 7 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding. Sod, temporary seeding, and mulching (sec. 6). Temporary stabilization with mulch alone shall only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:

Total Area of Site	= 3.4971 Acres
Area Disturbed	= 1.45 Acres
Area to be roofed or paved	= 0.48 Acres?
Area to be vegetatively stabilized	= 0.97 Acres
Total cut	= 893 Cu. Yards
Total fill	= 893 Cu. Yards
Offsite waste/borrow area location:	NONE
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back filled and stabilized within one working day. Whichever is shorter.

HIGHLAND MEADOWS
LOT 15
PLAT No. 9667

HIGHLAND MEADOWS
LOT 17
PLAT No. 11681
3.4871 Ac.

HIGHLAND MEADOWS
LOT 16
PLAT No. 11681



SEPTIC SYSTEM NOTES:

- SUBMIT THIS PLAN TO THE HOWARD COUNTY HEALTH DEPARTMENT FOR THE DESIGN AND SPECIFICATION OF THE SEPTIC TRENCHES.
- A GRINDER PUMP IS TO BE INSTALLED FOR THE BASEMENT FLOOR OF THIS HOUSE, SINCE A GRAVITY FLOW FOR THE SEPTIC CAN NOT BE ACHIEVED.

SITE NOTES:

- LOT 17, PLAT BOOK No. 11681.
- ZONING "R2EO"
- SETBACKS - FRONT 120'
SIDE 30'
REAR 60'
- PLEASE RELY ON ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS.

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

HOWARD SCD DATE

ENGINEER'S CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

M.N. ROshan, L.S. DATE 03/04/02

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

SIGNATURE OF DEVELOPER DATE

MISS-UTILITY NOTE:

- CONTACT MISS-UTILITY 72 HOURS BEFORE ANY TRENCHING, (800) 257 - 7777.

PLAN PREPARED BY: **NJR & ASSOCIATES**
LAND SURVEYING AND PLANNING
1033 MONTVERDE ROAD
BETHESDA, MARYLAND 20814
TEL: (301) 508-2800
FAX: (410) 709-5523

PLAN DEVELOPMENT PLAN OF: **HIGHLAND MEADOWS LOT 17**
PLAT No. 11681
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

REVISIONS

- REVISED AS PER COMMENTS DATED MAY 14, 2002 BY HO. CO. SCD.
- REVISED AS PER HEALTH DEP. COMMENT AND LOWERED BASEMENT SLAB ELEVATION, 09, 04, 2002.

STATE OF MARYLAND PROFESSIONAL LAND SURVEYOR No. 11109 M. N. ROshan, L.S.

GRAPHIC SCALE 1"=30'

DATE: 04-05-2002
JOB NUMBER: 2265
FILE NUMBER: 2265TOPO
PLOTTED: 09-04-2002
DRAWN BY: NR

SITE DEVELOPMENT PLAN
SHEET 1 OF 1

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: Gaetland Plumbing Inc Telephone #: 410-825-5303
Address: 1620 W. Old Liberty Rd
Sylkesville MD 21789

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): Joseph Gaetland License# 6352

*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: AMRAN Singh Telephone #: 301-908-1538
Subdivision: Highland Meadows Lot #: 17 Well Tag #: HO-94-3542
Site Address: 13516 Narrow Leaf Ct
Clarksville, MD 21029

Submersible Pump Data

Make: Goulds
Model #: 2G507
Pump Capacity 7 GPM
Well Yield: 10 GPM

Pitless Adapter

Make: BT
Model#: P100LT
Depth: 48" (36" min)
NSF approved: Yes

Well Cap and Electric Conduit

Two piece watertight cap:
Screened, vented well cap:
Cap secured to casing:
Conduit min 18" B.G.:
Conduit secured to well cap:

Depth of well encountered at time of pump installation: _____ (feet)
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 Yes

Piping to house

Type: Poly
PSI: 160 (160 psi min)
Depth of supply line: 48 (36" min)

House Connection

PVC sleeved to undisturbed soil at wall penetration: _____
Approximate length of sleeve: _____
Sleeve caulked and sealed properly: _____

} Sleeve
Under Footer
To well

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

Nov 20, 2002
date

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

Date Insp. Requested: 11/1/02 Date Insp. Approved: 11/1/02 (50)
Inspection Data: Pitless adapter and water supply line at least 36" below grade BB
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 14299 SEQUENCE NO. (MDE USE ONLY)

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 37077

ST/CO USE ONLY DATE RECEIVED MM DD YY 10 28 02

DATE WELL COMPLETED Depth of Well 220' (TO NEAREST FOOT)

OKSRK 11/1/02 PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-94-3547

OWNER Greenfield Homes STREET OR RFD 13540 Narrow Leaf Ct TOWN Clarksville SUBDIVISION Highland Meadows SECTION LOT 17

WELL LOG Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Entries: Sand (0-44), Gray Mica Rock (44-220).

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N) TYPE OF GROUTING MATERIAL (Cement CM, Bentonite Clay BC) NO. OF BAGS 20 NO. OF POUNDS 1880

CASING RECORD MAIN CASING TYPE (ST) Nominal diameter (6) Total depth (48)

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

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

DEPTH (nearest ft.) 46 220

SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH) 56 60

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

PUMPING TEST

HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 20 METHOD USED TO MEASURE PUMPING RATE Bucket

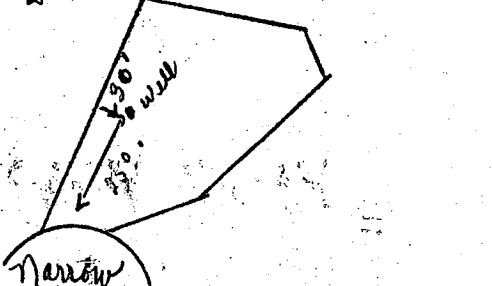
TYPE OF PUMP USED (for test) S submersible

PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 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)



NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED (Y/N)

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

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

DRILLERS LIC. NO. 1 MS D 024 DRILLERS SIGNATURE Joseph L. Mayne

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

B 1 **7957**

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO-94-3547

No Fee

please type

fill in this form completely

Date Received (APA)

10 10 02

OWNER INFORMATION

8 MM DD YY 13

Greenfield Homes
15 Last Name 6 Owner 34 First Name

6656 Luster Dr.
36 Street or RFD 55

Highland Md 20777
57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL

8 COUNTY **Howard** 21

Highland Meadows
23 SUBDIVISION 42

SECTION **44** LOT **17**
44 46 48 50

Clarksville
52 NEAREST TOWN 71

MILES FROM TOWN (enter 0 if in town) **2 1/2** M I
73 76 77 78

DRILLER INFORMATION

Joseph E. Mayne M S D Z Y
Driller's Name 76 License No. 81

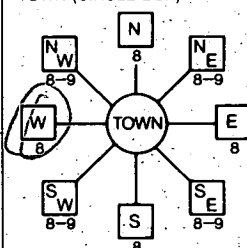
Joseph E. Mayne Well Drilling
Firm Name

5512 Ridge Rd. Mt. Airy Md. 21771
Address

Joseph E. Mayne **10/9/02**
Signature Date

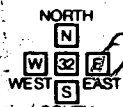
B 4

1 2
DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



13516
11 **Narrow Leaf Court** 30
NEAR WHAT ROAD

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



34 **2 1/3** 37
DISTANCE FROM ROAD FT

ENTER FT OR MI 38 39

TAX MAP: **34** BLK: **0** PARCEL **169**

B 2 WELL INFORMATION

1 2 APPROX. PUMPING RATE (GAL. PER MIN.) **5**
8 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **400**
14 20

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 **31017**
COUNTY NAME COUNTY NO.

STATE SIGNATURE _____ INSERT S _____ 41

DATE ISSUED **10 17 02** **Steven R. King** **10 17 03**
43 MM DD YY 48 CO SIGNATURE EXP. DATE

NORTH GRID **490 000** EAST GRID **800 000**
50 55 57 63

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

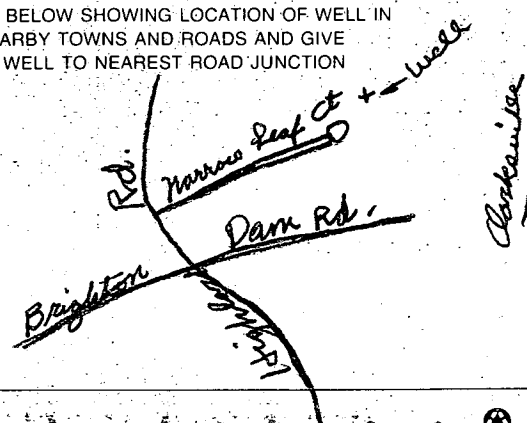
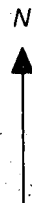
SOURCES OF DRILLING WATER:

1. **well**
- 2.
- 3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E **800**
N **490**

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



APPROXIMATE DEPTH OF WELL **260** FEET
24 28

APPROXIMATE DIAMETER OF WELL **6** INCH
NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN

AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)

CABLE REVerse-ROTary Drive-POINT

other _____

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) 41 _____ 52

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

APPROP. PERMIT NUMBER **G**
PERMIT No. **HO-94-3547**
70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

HIGHLAND ME
LOT 17
PLAT No. 1168
3.4971 Ac.±

NEW WELL LOCATION
TAKE W/ REGION FIRM
30' B.R.L.

No insp
well site
OK BRN
as staked
10/17/02

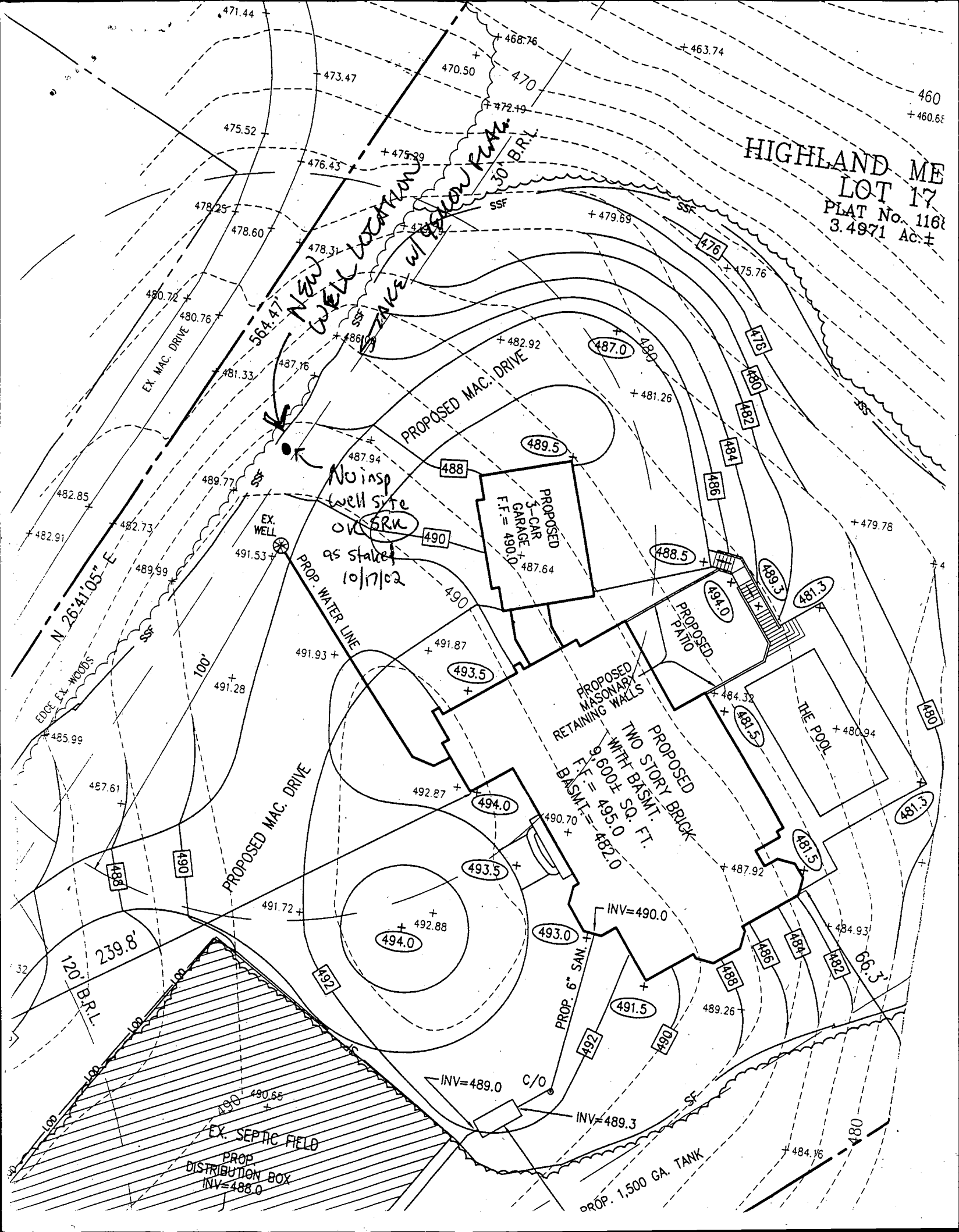
PROPOSED
3-CAR
GARAGE
F.F. = 490.0

PROPOSED
TWO STORY BRICK
WITH BASMT.
F.F. = 495.0
BASMT. = 482.0

THE POOL

EX. SEPTIC FIELD
PROP.
DISTRIBUTION BOX
INV = 488.0

PROP. 1,500 GA. TANK



11/1/02
 OK SRK

 WATER WELL ABANDONMENT-SEALING REPORT FORM

SUBMIT COPIES OF COMPLETED FORM TO:

- * COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed)
- * WELL OWNER
- * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 10-28-02 (month/day/year)

tag should be HO-81-2596

* PERMIT NUMBER OF ABANDONED WELL (if any) no tag

* PERMIT NUMBER OF REPLACEMENT WELL HO - 94 - 3547

* PERSON ABANDONING WELL: Joseph Mays

WELL DRILLERS LICENSE NUMBER: 024

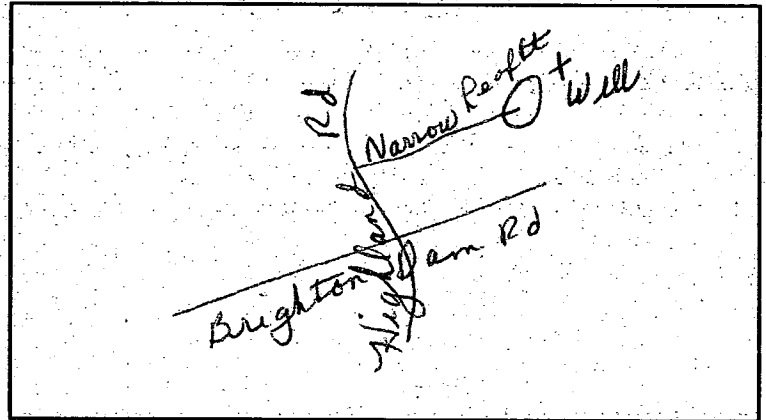
* OWNER'S NAME: Greenfield Homes

CIRCLE: MWD/MSD/MGD

* WELL LOCATION:

COUNTY: Hovary
 NEAREST TOWN: Clarksville
 TAX MAP _____ BLOCK _____ PARCEL _____
 SUBDIVISION: Highland Meadows
 SECTION: _____ LOT: 17
 NEAREST ROAD: 13516 Narrow Leaf Ct.

SITE LOCATION MAP



* TYPE OF WELL BEING ABANDONED:

- DRILLED JETTED
- BORED/AUGERED HAND DUG
- OTHER (specify) _____

* USE CODE:

- DOMESTIC MUNICIPAL/PUBLIC
- IRRIGATION INDUSTRIAL
- TEST/OBSERVATION GEOTHERMAL

* TYPE OF CASING:

- STEEL PLASTIC
- CONCRETE OTHER (specify) _____

* SIZE OF CASING: 6.58 INCHES IN DIAMETER

* DEPTH OF WELL: 40 FEET DEEP

* WAS ANY CASING REMOVED? YES NO
 if yes, length removed, in feet: 2ft

* WAS CASING RIPPED OR PERFORATED? YES NO

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
Cement	0	40
VOLUME OF MATERIAL USED		

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN: Joseph Mays LICENSE # 024 CIRCLE ONE: MWD/MSD/MGD DATE: 10-29-02
 DENV 828 JULY 1997 2) COUNTY ENVIRONMENTAL AGENCY

C1 7709 (OEP 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 A 37077

DATE RECEIVED

DATE WELL COMPLETED 03/16/89

DEPTH OF WELL 200 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-81-2596

OWNER DEVELOPMENT ROBERT ROBERT CLARKSVILLE HIGHLAND MEADOWS SECTION LOT 13 17/11/02

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), Check if water bearing. Includes entries for Top Soil, Clay, Shaley, Sand Stone, Mica, etc.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL CEMENT (CM), BENTONITE CLAY (BC), NO. OF BAGS 10, NO. OF POUNDS 1000.

CASING RECORD: casing types insert appropriate code below. Includes codes for Steel (ST), Concrete (CO), Plastic (PL), and Other (OT).

OTHER CASING (if used) diameter and depth from to.

SCREEN RECORD: screen type or open hole insert appropriate code below. Includes codes for Steel (ST), Brass (BR), Open Hole (HO), Plastic (PL), and Other (OT).

DEPTH (nearest ft.) 200. SLOT SIZE 1 2 3. DIAMETER OF SCREEN (NEAREST INCH).

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

OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.), WQ, TELESCOPE CASING, LOG INDICATOR, OTHER DATA.

PUMPING TEST: HOURS PUMPED 3, PUMPING RATE 10 gal. per min., METHOD USED TO MEASURE PUMPING RATE Bucket, WATER LEVEL BEFORE PUMPING 31, WHEN PUMPING 76, TYPE OF PUMP USED Submersible (S).

PUMP INSTALLED: DRILLER WILL INSTALL PUMP YES (NO), IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE.

LOCATION OF WELL ON LOT: SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL). Includes handwritten notes: Well 80', Right Left Line, Highland RD.

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 10.17.13 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS IDENT. NO. 40, DRILLERS SIGNATURE, SITE SUPERVISOR (Sign. of driller or journeyman responsible for sitework if different from permittee).

B 1 1593 SEQUENCE NO. (DP USE ONLY)
THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS

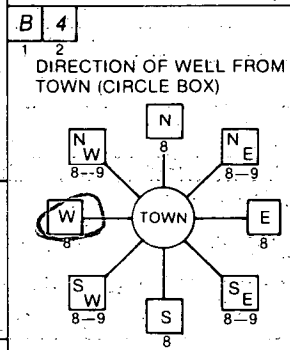
STATE OF MARYLAND PERMIT TO DRILL WELL
please print or type

STATE PERMIT NUMBER
HO-81-2596
fill in this form completely

OWNER INFORMATION
Date Received (APA) [] [] [] [] [] []
ROBERT DEVEROPMENT
12250 ROCKVILLE PIKE
ROCKVILLE MD 20852

LOCATION OF WELL
B 3
HOWARD
HIGHLAND MEADOWS
SECTION 13 LOT 13
ALARKSVILLE
MILES FROM TOWN (enter 0 if in town) 1 MI
ROAD 6 OFF HIGHLAND RD
BRIGHTON DAM RD

DRILLER INFORMATION
George F. Easterday
L. Franklin Easterday, Inc.
9265 Brown Church Rd., Mt. Airy, Md. 21771
George F. Easterday 3-2-88



DIRECTION OF WELL FROM TOWN (CIRCLE BOX)
NEAR WHAT ROAD
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
DISTANCE FROM ROAD 330 FT
ENTER FT or MI FT

WELL INFORMATION
B 2
APPROX. PUMPING RATE (GAL. PER MIN.) 5
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500

USE FOR WATER (CIRCLE APPROPRIATE BOX)
HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)
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 A37077
STATE SIGNATURE DATE ISSUED 030488
NORTH GRID 497000 EAST GRID 0505000

APPROXIMATE DEPTH OF WELL 200 FEET

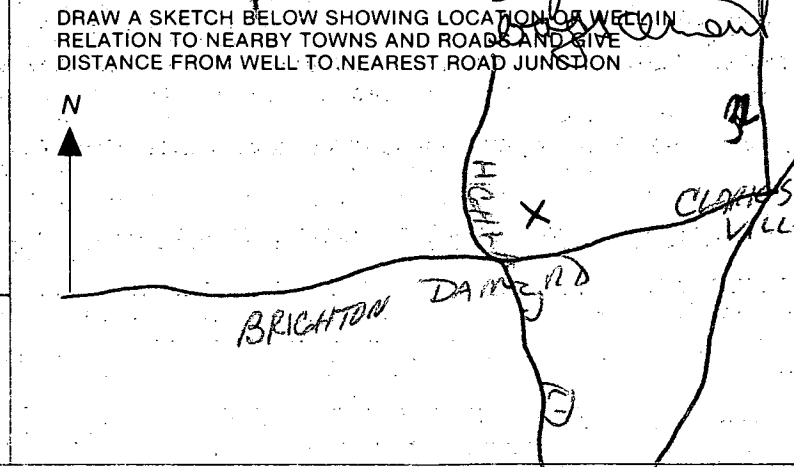
APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one)
BORED (or Augered) JETTED Jetted & DRIVEN
AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)
CABLE REVerse-ROTary Drive-POINT

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 800 5
N 490 7

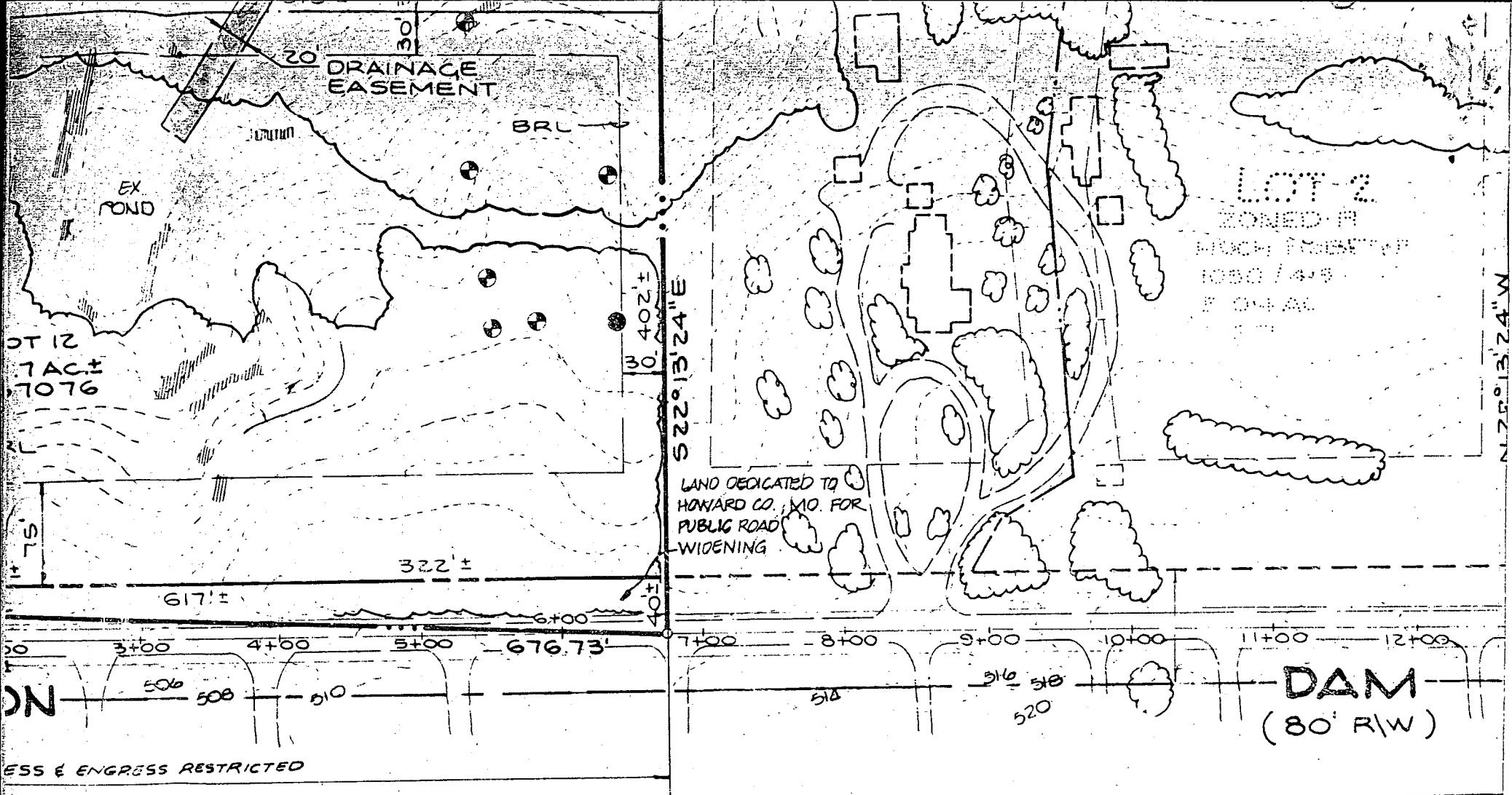
3116788 location
similar to top of just at edge of steep drop of 10-20' lower than high perc hole - OR
40' casing (3' above)
33 open

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
THIS WELL WILL DEEPEAN AN EXISTING WELL
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)



Not to be filled in by driller (OEP USE ONLY)
APPROP. PERMIT NUMBER GAP
FORCE INITIALS PERMIT No. HO-81-2596

SPECIAL CONDITIONS TO BE CONVERTED TO DRINKING WELLS UPON FINAL PLAT APPROVAL
COUNTY



APPROVED: LOT 1 TO LOT 15 FOR PRIVATE WATER & SEWERAGE SYSTEM BY HOWARD HEALTH DEPARTMENT.

PARCEL A NOT RELEVANT FOR CONSTRUCTION PURPOSES.

Steven Boyd 3/1/88
Howard County Health Department Officer

Date *(Signature)*

Dewberry &

ENGINEERS — ARCHITECTS — PLANN

3300 N. RIDGE ROAD, SUIT
ELLCOTT CITY, MD. 21
(301) 461-7478

APPLICATION

PERCOLATION TESTING

A 37077

P _____

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

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 Brighton Dam Limited Partnership
6228 Clearwood Road
ADDRESS Bethesda, MD 20817 PHONE 301-229-8838

PROSPECTIVE BUYER Celta Corp.
101 Chestnut Street, Suite 125
ADDRESS Gaithersburg, MD 20877 PHONE 301-948-2918

PROPERTY LOCATION:
SUBDIVISION Highland Meadows LOT NO. 18

*LOT 13 on Prelim
136 on FMA*

ROAD AND DESCRIPTION Highland Road at Brighton Dam Road

TAX MAP 34 PARCEL # 169

SIZE OF LOT 3 AC + 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 _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 615186 Per OK Hold for Plat R.H.

THIS IS NOT A PERMIT

SOIL PROFILE

0

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	

REMARKS _____

TYPE OF SOIL _____

TESTED BY _____ ALSO PRESENT _____

EH-12-1079

APPLICATION

PERCOLATION TESTING

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

A _____

P _____

DISTRICT _____

DATE _____

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

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(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

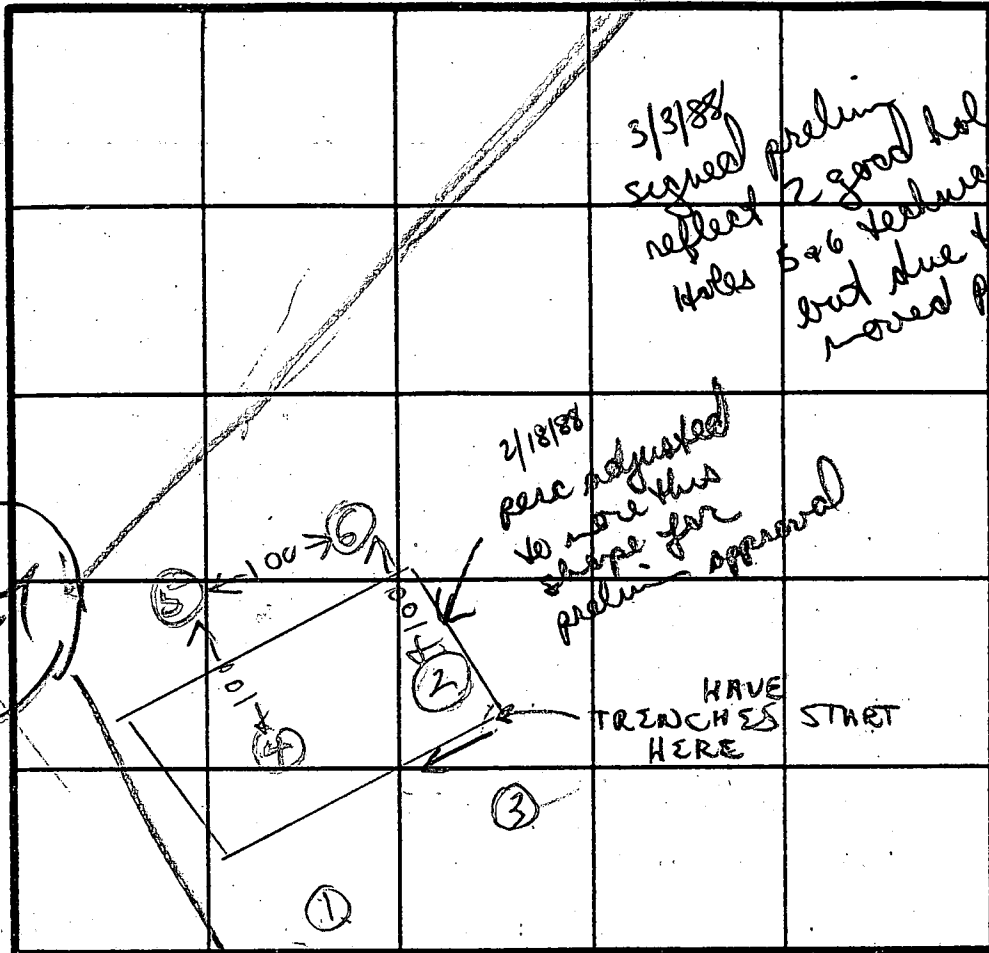
REASONS FOR REJECTION OR HOLDING _____

THIS IS NOT A PERMIT

HOLE
ELEV

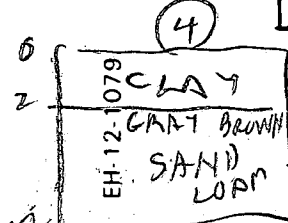
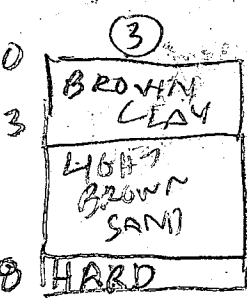
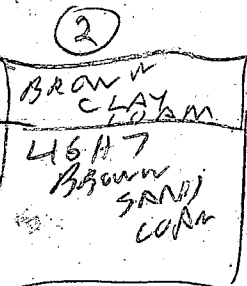
- (2)(4) = HIGH
- (1)(3) = MED
- (5)(6) = LOW

SOIL PROFILE

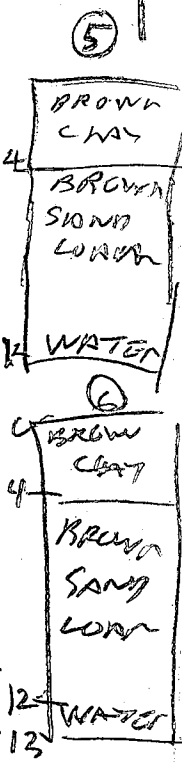


3/3/88 signed reflect Holes
2 good holes 5 & 6 but due to H2O in layer 2 moved perc uphill
7 Perc final
Inlet - 4'
Bottom - 6'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE-LINE



DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
6/5/86	1V	12	WATER		10 1/2 FT		
	2S	4	249	250	250	255	5
	2D	9	249	250	250	254	4
	2V	12	LOOKS OK				
	3V	9	ROCK BOTTOM				
	4S	4	313	314	314	316	2
	4D	8	313	314	314	318	4
	4V	12	LOOKS OK				
	5V	12	WATER		12 FT		
	6V	12	WATER		12 FT		



REMARKS HOLE (1)(2)(3) DUG PER PLOT HOLES (5)(6) EXTRA

TESTED BY R. HODGES

ALSO PRESENT RICEWAYNT. BURBANK CO

HIGHLAND MEADOWS
LOT 14
PLAT NO. 9667

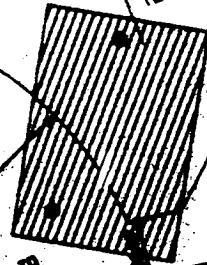
*Signed
Restb
Plat*

HIGHLAND MEADOWS
LOT 15
PLAT 9667

17
3.4971± ACRES

PREVIOUSLY LOT
13 OF PLAT 9667

EXISTING PRIVATE
SEWERAGE EASEMENT
TO REMAIN

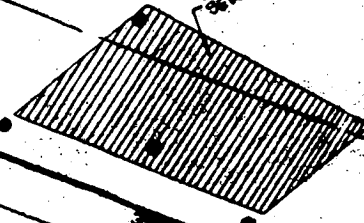


NARROW LEAF
COURT

PREVIOUSLY LOT 12
OF PLAT 9667

16
9.2124± ACRES

EXISTING PRIVATE
SEWERAGE EASEMENT



HIGH

100 YEAR FLOODPLAIN, DRAINAGE
AND UTILITY EASEMENT

LOT 7

N 498750

322 02'34"

323.63

1/4" PIPE FOUND

364.47'

EX. 75' STREAM BUFFER
(TAKEN FROM PLAT 9667)

1/4" PIPE FOUND

1/4" PIPE FOUND

PREVIOUS LOT LINE BETWEEN LOTS
12 & 13 AS SHOWN ON PLAT 9667

EXISTING DRAINAGE
EASEMENT

BUILDING RE

N 42 12'57"

353.47'

CURVE DATA				
NO.	RADIUS	ARC	CHORD	CHORD BEARING
1	591.08'	180.07'	179.373'	N35 57' 18"W
2	25.00'	21.04'	20.42'	S88 17'32"E
3	50.00'	90.79'	78.82'	N63 47' 32"E
4	50.00'	39.21'	38.21'	N10 41'57"W

MINIMUM LOT SIZE CHART						
LOT NO.	GROSS AREA	PIPESTEM AREA	REMAINING AREA	100 YEAR FLOODPLAIN	25% SLOPES	MINIMUM LOT SIZE
16	9.2124 AC	N/A	9.2124 AC	N/A	0.0961 AC	9.1163 AC
17	3.4971 AC	N/A	3.4971 AC	0.1874 AC	0.2320 AC	3.0777 AC

* INFORMATION TAKEN FROM PLAT 9667 - NOT COMPUTED BY ROBERT A. SHARRAH, P.L.S.

The requirements 3-108, The Real Property Article, Annotated Code of Maryland, 1988 replacement volume, (as Supplemented) as far as they relate to the making of this plat and the setting of markers have been complied with.

ROBERT A. SHARRAH, P.L.S. DATE 2-21-95
 DAVID E. BAXTER DATE 2-27-95
 VICKI P. BAXTER DATE 2-27-95

LEGEND	
BOUNDARY LINE	—————
BUILDING RESTRICTION LINE	————— (1) —————
COORDINATE POINT	•
5/8" REBAR SET	•
PERCOLATION TEST HOLE	•
DRAINAGE & UTILITY EASEMENT	—————

GENERAL NOTES:

- Horizontal and Vertical Control shown hereon is based upon NAD '83, Maryland Coordinate System as projected by Howard County Geodetic Control Stations No. 2535003, No. 2535004, and No. 2535005.
- Subject property zoned RR (Rural Residential) per October 18, 1993 Comprehensive Zoning Plan.
- See Plat No. 9664 (Sheet 1 of 4) for detailed floodplain information.
- This area designates a minimum 10,000 Sq. Ft. Private Sewerage Easement as Required by the Maryland State Department of the Environment for Individual Sewerage Disposal. Improvements of any nature in this area are restricted until Public Sewerage is available. These Easements shall become null and void upon connection to a Public Sewerage System. The County Health Officer shall have the authority to grant encroachments into the Private Sewerage Easements. Recordation of a modified Sewerage Easement shall not be necessary.
- See Plat No. 9667 (Sheet 4 of 4) for detailed drainage and utility information.
- All areas are more or less, unless otherwise stated.
- This plat is based on a field run monumented boundary survey performed on or about October 4, 1994, by Robert A. Sharrah, P.L.S.

LAND AREA TABULATION CHART:	
TOTAL NUMBER OF LOTS/PARCELS TO BE RECORDED	2
TOTAL AREA OF LOTS/PARCELS TO BE RECORDED	12.7095± ACRES
TOTAL AREA OF OF SUBDIVISION TO BE RECORDED	12.7095± ACRES

NOTES: THE STREAM BUFFER INDICATED ON THIS PLAT DOES NOT EFFECT THE INITIAL CONSTRUCTION OF A RESIDENTIAL UNIT ON ANY LOT. IT DOES PROHIBIT SUBSEQUENT CLEARING, GRADING OR CONSTRUCTION IN THE BUFFER AREA. MAINTENANCE OF RESIDENCES, LANDSCAPING, AND UTILITIES IS PERMITTED.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS FOR LOTS 16 AND 17
 Joyce M. Boyd, Health Officer, 3/23/95
 HOWARD COUNTY HEALTH OFFICER CW DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 DIRECTOR DATE

APPROVED: FOR STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
 DIRECTOR DATE

SURVEYORS CERTIFICATE
 I hereby certify that the Final Plat shown hereon is correct; that it is a subdivision of all the lands conveyed by SDP M Limited Partnership, a Maryland Partnership, to David E. Baxter and Vicki P. Baxter by deed dated June 22, 1994 and recorded among the Land Records of Howard County, Maryland in Liber No. 3283 at Folio 0060 and that all monuments are in place or will be in place prior to the acceptance of the streets in the subdivision by Howard County, Maryland as shown in accordance with the annotated code of Maryland, as amended, and monumentation is in accordance with the Howard County Subdivision Regulations.

ROBERT A. SHARRAH, P.L.S. No. 18910 DATE 2-21-95

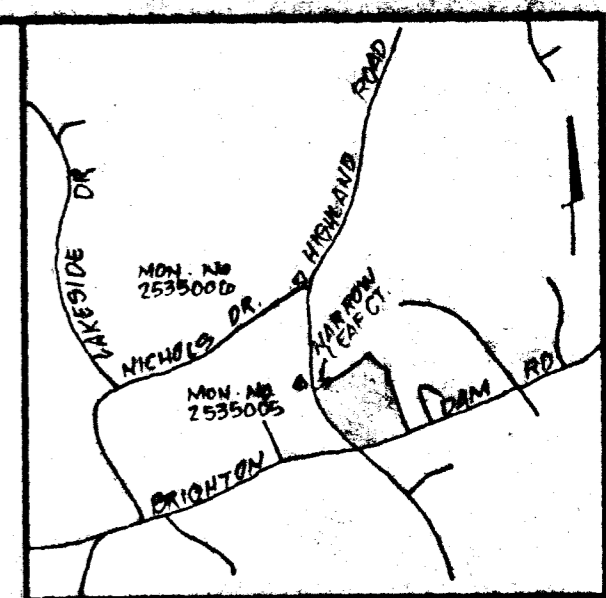
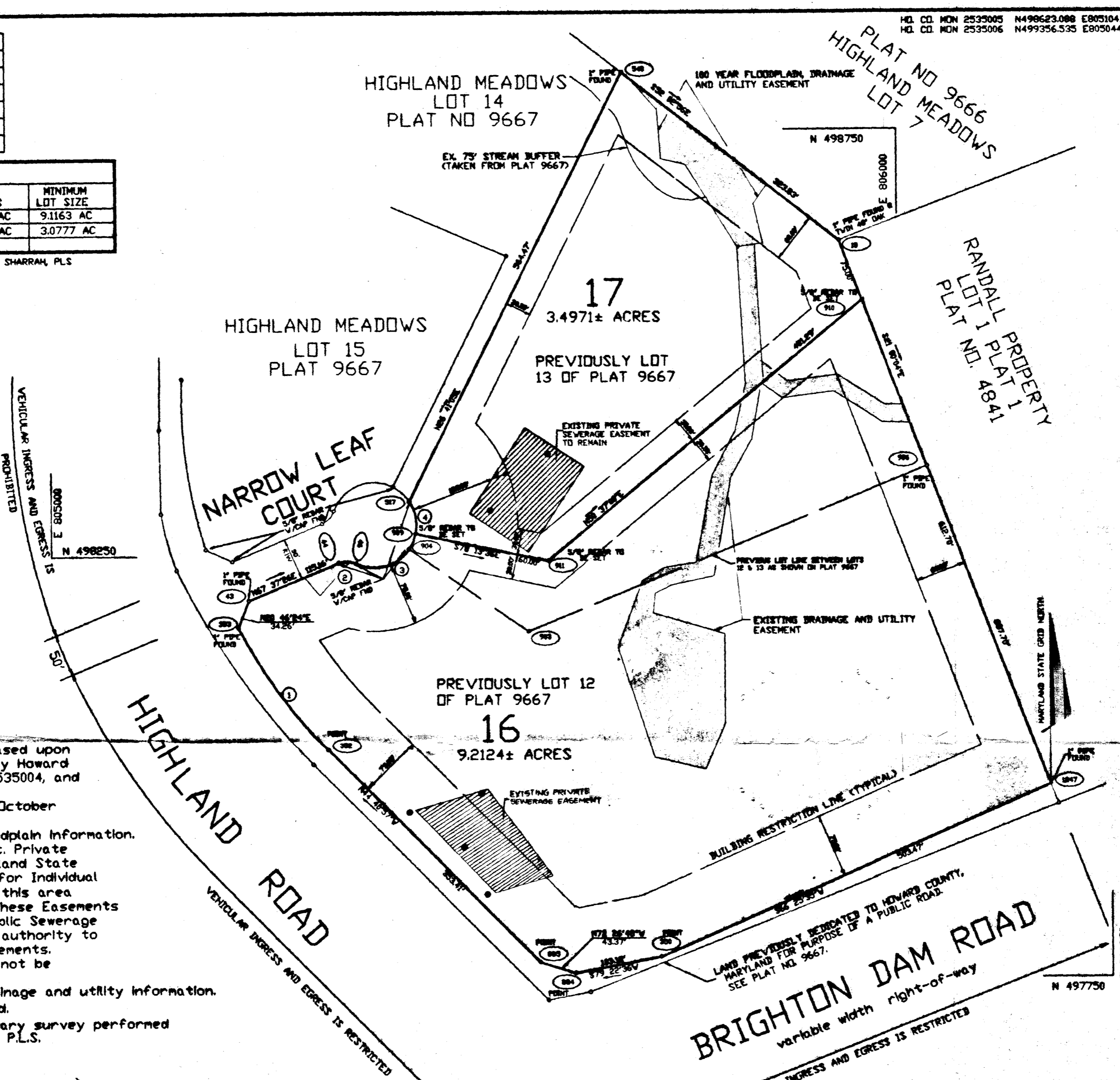
OWNER'S CERTIFICATE
 David E. & Vicki P. Baxter, owners of the property shown hereon, hereby adopt this plan of subdivision and in consideration of the approval of this final plat by the Department of Planning and Zoning, establish the minimum Building Restriction Lines and grant unto Howard County, Maryland its successors and assigns 1) the right to lay, construct and maintain sewers, drains, water pipes and other municipal utilities and other services in and under all roads or street rights-of-way and the specific easement areas of the streets and/or roads and floodplains and open space where applicable and for good and other valuable consideration, hereby grant the right and option to Howard County to acquire the fee simple title to the beds of the streets and/or roads and floodplains, storm drainage facilities, and open space where applicable; 2) the right to require dedication of water ways and drainage easements for the specific purpose of their construction repair and maintenance and 4) that no building or similar structure of any kind shall be erected on or over the said easements and rights-of-way.

DAVID E. BAXTER DATE 2-27-95
 VICKI P. BAXTER DATE 2-27-95
 WITNESS

RECORDED AS PLAT _____ ON _____ AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND

HIGHLAND MEADOWS
 LOTS 16 & 17
 (A RESUBDIVISION OF LOTS 12 & 13)
 PLAT NO. 9667
 SCALE: 1" = 100' DATE: 6 FEBRUARY 1995
 TAX MAP NO. 34 PARCEL NO. 169
 3rd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

MARYLAND LAND DESIGN, INC.
 2001 MEADOW DRIVE
 WESTMINSTER, MARYLAND 21158
 TELEPHONE: (410) 857-0210
 DRAWN BY: DAB CK. BY: RAS

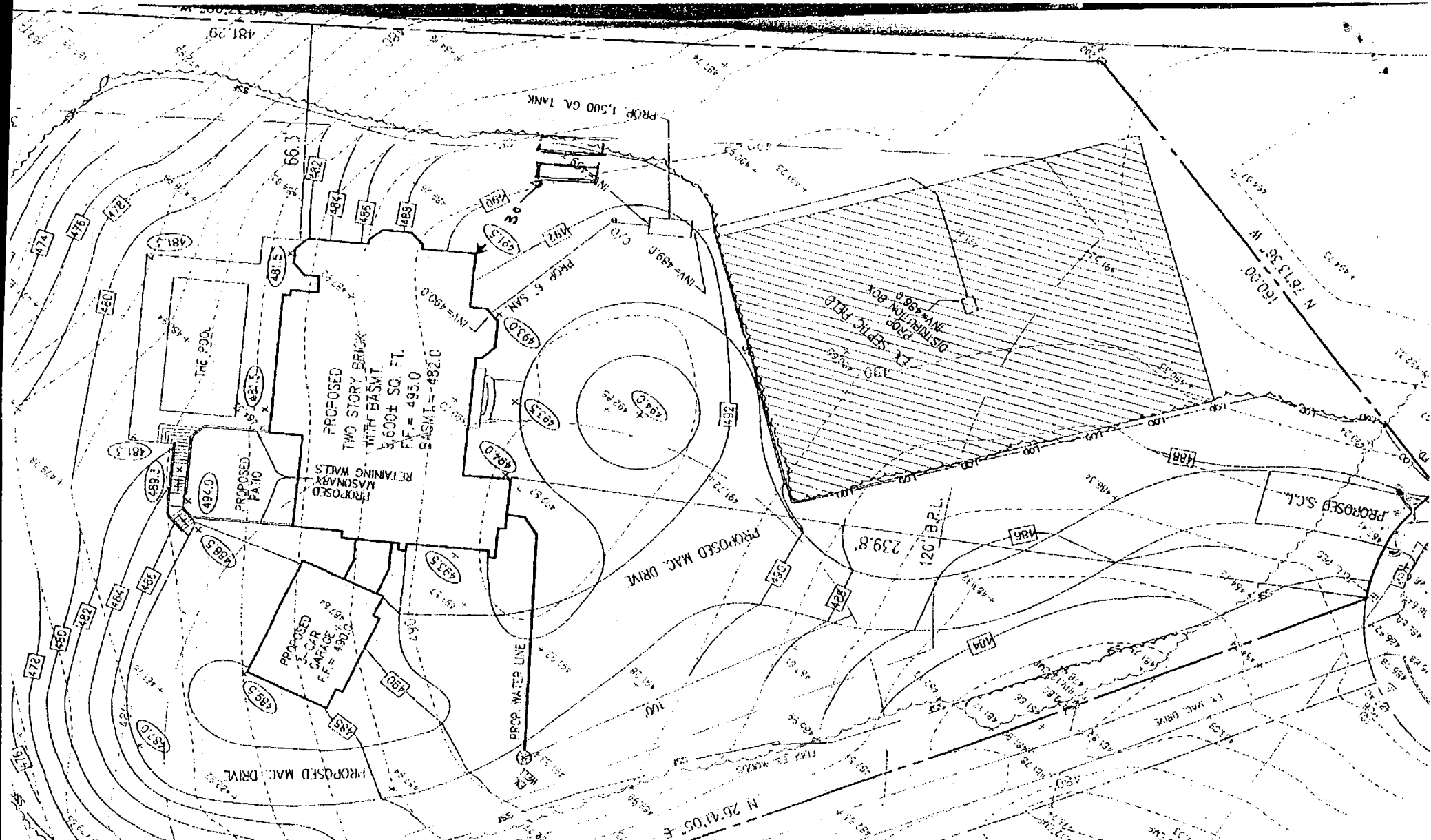


VICINITY MAP
 SCALE: 1" = 2000'

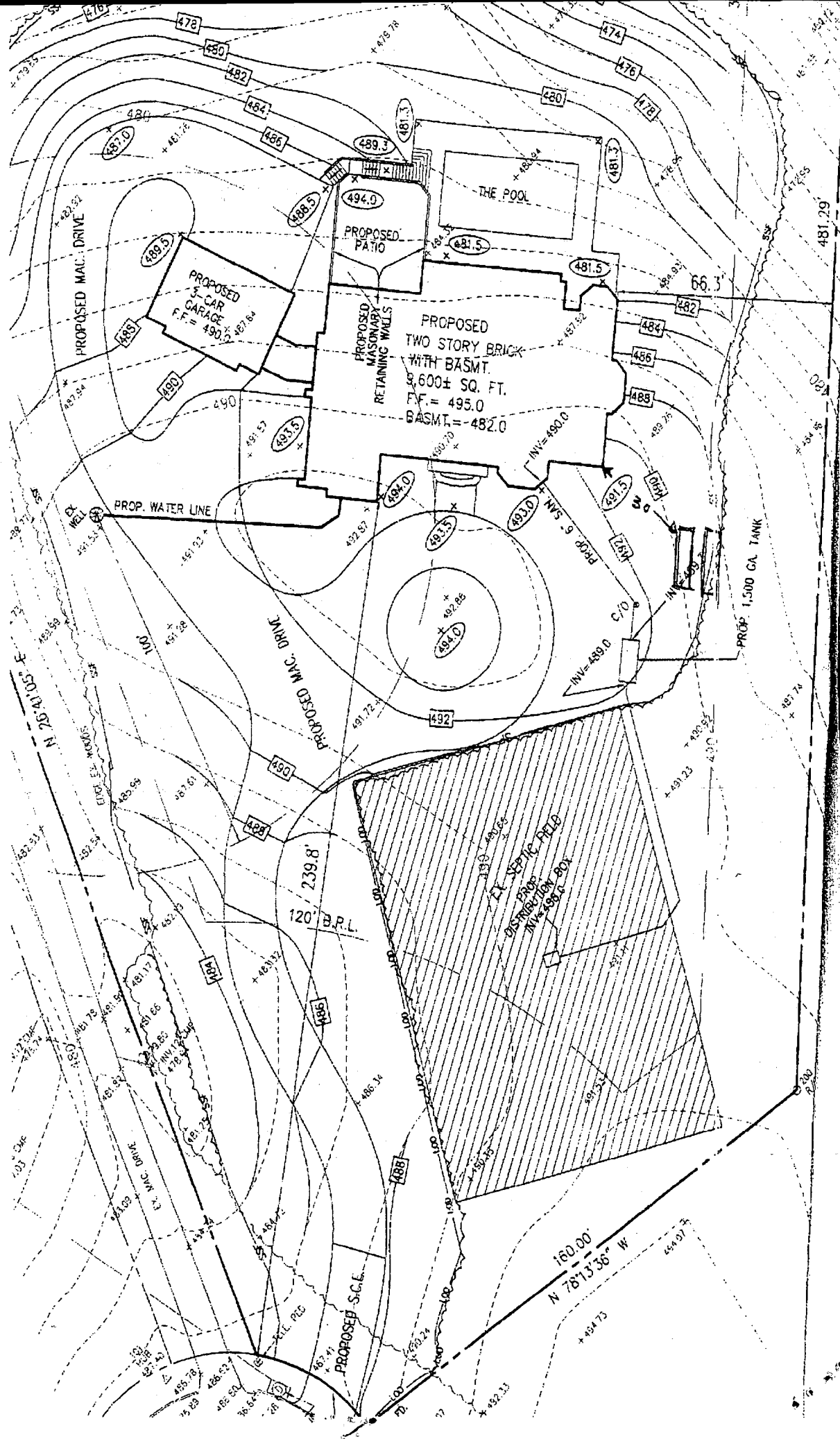
COORDINATE TABLE		
NO.	NORTH	EAST
43	498198.3100	805219.9800
44	498214.7100	805338.8500
46	498166.2800	805219.9800
353	498021.0800	805325.3000
885	497769.8000	805573.8100
884	497756.7200	805615.1600
358	497775.7300	805716.5100
1247	497977.0800	806177.9600
910	498549.0820	805989.3750
911	498243.7031	805586.3826
909	498276.3496	805429.7486
517	498313.8993	805422.6540
540	498818.2519	805676.1479
13	498619.1000	805931.5000
904	498258.0351	805421.8712
903	498160.3031	805562.6288
906	498352.7821	806033.7358

OWNER:
 David E. & Vicki P. Baxter
 P.O. Box 591
 Columbia, Maryland 21045

F-95-122



2/3/03
 Prop Tank
 Bookman
 O/H 0131
 Booth 122



CIRCUIT COURT FOR HOWARD COUNTY

MARGARET D. RAPPAPORT, CLERK

Circuit Court for Howard County
Courthouse • Ellicott City, Maryland 21043

Amrik S. Melhi, et ux

Case Number 13-C-04-58175

Vs.

Civil

**PINK COPY MUST BE
FILED WITH THE COURT
UPON ISSUANCE**

Greenfield Homes, Inc.

STATE OF MARYLAND, HOWARD COUNTY

SUBPOENA

To (Name, Address and County): Penny E. Borenstein, M.D., Howard County Health Officer or Designee
Howard County Health Department
3525-H Ellicott Mills Drive, Ellicott City, Howard County, MD. 21043

YOU ARE HEREBY COMMANDED TO: Personally appear; () Personally appear and produce documents or objects;
at Law Offices of Silverstein & Ostovitz, LLC, 8355 Court Avenue, Ellicott City, MD. 21043
(Place where attendance is required)

on Wednesday the 18th day of August, 20 04 at 9:30 a.m./p.m.

YOU ARE COMMANDED TO ~~produce the following documents or objects~~ provide testimony about Building Permit Applications for Highland Meadows, Lot 17, 13516 Narrow Leaf Court, including Permit Number B00137608 and all additional permits for this location.

Subpoena requested by Plaintiff; () Defendant; and any questions should be referred to: C. Paul Champion, Esquire, 14332 Old Marlboro Pike, Upper Marlboro, MD, 20772
(301) 627-1145 (Name of Party or Attorney, Address and Phone Number)

Date Issued August 6, 2004

Margaret D. Rappaport
CLERK (Signature and Seal)

NOTICE:

- (1) YOU ARE LIABLE TO BODY ATTACHMENT AND FINE FOR FAILURE TO OBEY THIS SUBPOENA.
- (2) This subpoena shall remain in effect until you are granted leave to depart by the Court or by an officer acting on behalf of the Court.
- (3) If this subpoena is for attendance at a deposition and the party served is an organization, notice is hereby given that the organization must designate a person to testify pursuant to rule 2-412(d)

SHERIFF'S RETURN

- () Served and copy delivered on date indicated below.
- () Unserved, by reason of _____

Date: _____ Fee: \$ _____

SHERIFF

ORIGINAL AND ONE COPY NEEDED FOR EACH WITNESS

CIRCUIT COURT FOR HOWARD COUNTY

MARGARET D. RAPPAPORT, CLERK

Circuit Court for Howard County
Courthouse • Ellicott City, Maryland 21043

Amrik S. Melhi, et ux

Case Number 13-C-04-58175

Greenfield Homes, Inc.

Vs.

Civil

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STATE OF MARYLAND, HOWARD COUNTY

SUBPOENA

To (Name, Address and County): Penny E. Borenstein, M.D., Howard County Health Officer or Designee
Howard County Health Department
3525-H Ellicott Mills Drive, Ellicott City, Howard County, MD. 21043

YOU ARE HEREBY COMMANDED TO: Personally appear; () Personally appear and produce documents or objects;
at Law Offices of Silverstein & Ostovitz, LLC, 8355 Court Avenue, Ellicott City, MD. 21043
(Place where attendance is required)

on Wednesday the 18th day of August, 2004 at 9:30 a.m./p.m.

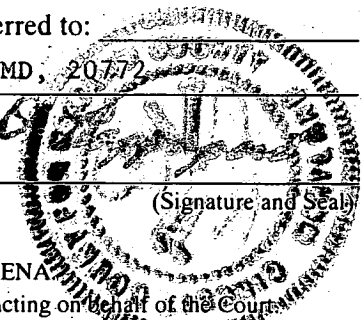
YOU ARE COMMANDED TO produce the following documents or objects: provide testimony about Building Permit Applications for Highland Meadows, Lot 17, 13516 Narrow Leaf Court, including Permit Number B00137608 and all additional permits for this location.

Subpoena requested by Plaintiff; () Defendant; and any questions should be referred to:

C. Paul Champion, Esquire, 14332 Old Marlboro Pike, Upper Marlboro, MD, 20772
(301) 627-1145 (Name of Party or Attorney, Address and Phone Number)

Date Issued August 6, 2004

CLERK



NOTICE:

- (1) YOU ARE LIABLE TO BODY ATTACHMENT AND FINE FOR FAILURE TO OBEY THIS SUBPOENA.
- (2) This subpoena shall remain in effect until you are granted leave to depart by the Court or by an officer acting on behalf of the Court.
- (3) If this subpoena is for attendance at a deposition and the party served is an organization, notice is hereby given that the organization must designate a person to testify pursuant to rule 2-412(d)

SHERIFF'S RETURN

() Served and copy delivered on date indicated below.

() Unserved, by reason of _____

Date: _____ Fee: \$ _____ SHERIFF _____

ORIGINAL AND ONE COPY NEEDED FOR EACH WITNESS

CIRCUIT COURT FOR HOWARD COUNTY

MARGARET D. RAPPAPORT, CLERK

Circuit Court for Howard County
Courthouse • Ellicott City, Maryland 21043

Amrik S. Melhi, et ux

Case Number 13-C-04-58175

Vs.

Civil

**PINK COPY MUST BE
FILED WITH THE COURT
UPON ISSUANCE**

Greenfield Homes, Inc.

STATE OF MARYLAND, HOWARD COUNTY

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CLERK

(Signature and Seal)

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() Served and copy delivered on date indicated below.

() Unserved, by reason of _____

Date: _____ Fee: \$ _____

SHERIFF

ORIGINAL AND ONE COPY NEEDED FOR EACH WITNESS

F A FACSIMILE
from the office of
CHAMPION & CHAMPION, P.C.
Attorneys & Counselors at Law

14332 Old Marlboro Pike, Upper Marlboro, Maryland 20772
telephone: 301-627-1145 facsimile: 301-627-6685

DATE: August 12, 2004

TIME: 4:06 PM

NOTE: This Facsimile transmission is intended only for the use of the person to whom it is addressed. It may contain information that is confidential, privileged, or otherwise exempt from disclosure. If you are not the intended recipient, or the person authorized to deliver this Facsimile to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this Facsimile is prohibited. If you have received this Facsimile in error, please notify us immediately by telephone (collect) at the telephone number above, and return the original Facsimile to us at the above address by first class mail. THANK YOU. rev 4.4.01

Please Deliver to: **Mr. John Boris**
Facsimile Number: **1-410-313-2648**
This Cover Page and (-1-) Other Pages

Mr. Boris:

Please find attached a letter dated August 15, 2002, from Steven R. Kreig to Greenfield Homes, Inc.

Please call when you have a chance.

Sincerely,

C. Paul Champion, III



HOWARD COUNTY HEALTH DEPARTMENT

Bureau of Environmental Health
3525-H Ellicott Mills Drive, Ellicott City, Maryland 21043-4544
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-877-4MD-DHMH

Final

Penny E. Borenstein, M.D., M.P.H., Howard County Health Officer

August 15, 2002

*Pgm by
John P*

Rick Minor
Greenfield Homes
6656 Luster Drive
Highland, MD 20777

RE: Building Permit Application
Number: B00137608
Highland Meadows, Lot 17
13516 Narrow Leaf Court

Dear Mr. Minor:

This office has recently received the referenced building permit application; however, we can not recommend approval at this time.

The proposal is to build an 8 bedroom house. The percolation tests and soils evaluation previously conducted, stipulate a design of 1,440 linear feet of trench for three septic systems (initial system and two complete repairs), which can not be accommodated by the existing approved 10,000 square ft sewage easement.

It may be possible to establish slightly more septic area with additional percolation tests; however, previous tests indicate the area surrounding the approved septic easement to be limited by a high water table and shallow depth to bedrock. It is recommended that either the building permit application is amended to reflect a reduction in the number of bedrooms and/or additional percolation tests are performed pending approval of a proposed percolation test plan.

This proposed percolation test plan should include the following:

- Proposed additions (in square feet) to the existing septic area with proposed test hole locations
- All adjacent wells within 100 feet of property boundaries
- Three complete septic systems (each 480 linear feet of trench) matched to contour within the new proposed easement
- A future pump tank with associated elevations (likely required to be able to access future repairs)

Even if additional septic area can be obtained, an eight bedroom house may not be able to be accommodated. Additional percolation testing may need to be conducted only in "wet season" 2003 pending an official "wet season" is scheduled.

Respectfully,
Steven R. Krieg
Steven R. Krieg
Registered Environmental Sanitarian
Well and Septic Program

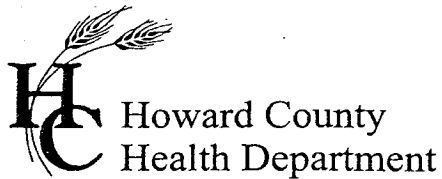
SRK

BP NUMBER	DATE REC	REV-DATE	OWNERS LAST NAME	LOCATION ADDRESS	SUB-DIVISION NAME	LOT #
B00137608	7/24/2002		GREENFIELD HOMES	13516 NARROW LEAF COURT	HIGHLAND MEADOWS	17
B00137608A	8/21/2002		GREENFIELD HOMES	13516 NARROW LEAF COURT	HIGHLAND MEADOWS	17

BPLOG

USE BRMS	SAN ASSG	A NUMBER	WELL TAG #	DESCRIPTION OF WORK PROPOSED	APPR-DATE
SFD - 8 BRMS	SRK	37077	81-2596		9/5/2002
SFD - 5 BRMS	SRK	37077	81-2596		9/5/2002

BP COMMENTS	DILP ERRORS	DATE ERROR



3525 H Ellicott Mills Drive, Ellicott City, MD 21043
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

September 2, 2004

Gore Reporting Company, Inc.
Att: Wendy A. Fernandez
107 Ridgely Avenue
Suite 13A
Annapolis, MD 21401

RE: Recorded deposition for
Melhi vs. Greenfield Homes

Dear Mrs. Fernandez:

Please find a signed "Certificate of the Deponent" and "Errata Sheet" enclosed for your records. As stated in the signed documents, my deposition was recorded accurately. For any further comment, please contact me directly at (410) 313-2651.

Respectfully,

John A. Boris, Jr., R.S., Supervisor
Well and Septic Program

JAB
Enclosures

GORE REPORTING COMPANY, INC.

107 RIDGELY AVENUE
SUITE 13A
ANNAPOLIS, MARYLAND 21401

SERVING
MARYLAND,
VIRGINIA & D.C.

1-800-243-8381
FAX (410) 269-6013

August 26, 2004

John Boris
1262 Creek Drive
Annapolis, Md 21401

Re: John Boris

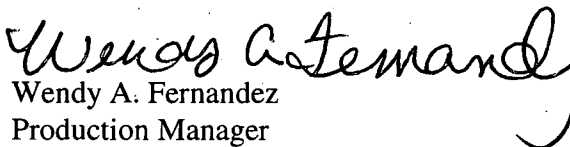
Dear Mr. Harvis:

Enclosed please find your copy along with the original signature page for the deposition of John Boris, taken on August 18, 2004. Please have the deponent read the transcript and upon completion sign the original signature page.

Should any changes be necessary they should be noted on the errata sheet which is provided. Please sign the errata sheet. **Please do not mark changes in the transcript.**

The deponent has thirty days to complete the reading and signing. Upon completion, please return the signed original signature page and errata sheet to our office.

Sincerely,


Wendy A. Fernandez
Production Manager

cc Harvis
cc Champion
VS18AU4

ORIGINAL

CERTIFICATE OF THE DEPONENT

I have read the foregoing deposition. It is true and correct to the best of my knowledge. All changes, additions and comments that I feel are necessary, I have listed on a separate errata sheet enclosed, including the page and line numbers of each correction.


Signature

9/2/04
Date

ERRATA SHEET

I do not wish to make any changes or corrections to my deposition.

[Handwritten Signature]

Witness Signature

I do wish to make the following changes for the following reasons:

PAGE LINE

_____	_____	<u>CHANGE</u>
_____	_____	<u>REASON</u>
_____	_____	<u>CHANGE</u>
_____	_____	<u>REASON</u>
_____	_____	<u>CHANGE</u>
_____	_____	<u>REASON</u>
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_____	_____	<u>REASON</u>

Orig: bois

cc: Harris
Champion

Job # US18A04

Date AUG 26, 04

Witness Signature _____

Witness Name: _____

Case: _____

IN THE CIRCUIT COURT OF MARYLAND
FOR HOWARD COUNTY

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GREENFIELD HOMES, INCORPORATED, :
Petitioner, :
vs. : CA NO. 13-C-04-58511
AMRIK S. MELHI AND :
RAVINDER K. MELHI, :
Respondents. :

AMRIK S. MELHI AND :
RAVINDER K. MELHI, :
Plaintiffs, :
vs. :
: CA NO. 13-C-04-58175
GREENFIELD HOMES, INCORPORATED, :
AND WAYNE GREENFIELD, :
INDIVIDUALLY, :
Defendants. :

* * * * *

Pursuant to Notice, the deposition of JOHN A.
BORIS, JUNIOR, was taken on Wednesday, August 18th,
2004, at the law offices of Silverstein and Ostovitz,
LLC, 8355 Court Avenue, Ellicott City, Maryland 21403,

Page 2

1 commencing at approximately 9:44 a.m., before
 2 Valerie A. Shirley, a Notary Public.
 3
 4
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 19
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 21 REPORTED BY: VALERIE A. SHIRLEY, NOTARY PUBLIC

Page 3

1 APPEARANCES:
 2 DAVID S. HARVIS, ESQUIRE AND
 3 ANDREW VANCE, ESQUIRE
 4 In Behalf of the Petitioners/Counter-
 5 Defendants
 6
 7 C. PAUL CHAMPION, III, ESQUIRE AND
 8 SAMUEL C. STEELMAN, JUNIOR, ESQUIRE
 9 In Behalf of the Respondents/Counter-
 10 Plaintiffs
 11
 12 ALSO PRESENT:
 13
 14 WAYNE GREENFIELD
 15 RICK MINOR
 16 AMRIK S. MELHI
 17 KAREN D. AMOS
 18
 19
 20
 21

Page 4

1 INDEX
 2 Reporter's Note: This transcript contains
 3 quoted material. Such material is reproduced as quoted
 4 or read by the speaker.
 5
 6 WITNESS: PAGE:
 7 John A. Boris, Junior 4
 8
 9 EXAMINATION BY:
 10 Mr. Champion 4, 36
 11 Mr. Vance 20
 12
 13
 14 EXHIBITS:
 15
 16 No. 1 Letter from Howard County Health 8
 17 Department to Mr. Minor, dated 8/15/02
 18
 19 CERTIFICATE OF DEPONENT: 38
 20
 21

Page 5

1 PROCEEDINGS
 2 Thereupon:
 3 JOHN A. BORIS, JUNIOR
 4 was called on for examination by counsel for the
 5 Respondents/Counter-Plaintiffs, and having been
 6 duly sworn according to law, was examined and
 7 testified further as follows:
 8 EXAMINATION BY COUNSEL FOR THE RESPONDENTS/
 9 COUNTER-PLAINTIFFS
 10 BY MR. CHAMPION:
 11 Q Would you, please, state your name and
 12 address, Mr. Boris.
 13 A My name is John A. Boris, Junior.
 14 Address is 1262 Creek Drive, Annapolis, Maryland.
 15 Q Where are you employed, sir?
 16 A Howard County Bureau of Environmental
 17 Health.
 18 Q What do you do for those folks?
 19 A I am the Well and Septic Program
 20 Director.
 21 Q What are your duties as the Well and

Page 6

1
2
3 Septic Program Director?
4 **A I oversee the two sections in that**
5 **program, one being the Development Coordination**
6 **Section, the other being the Groundwater**
7 **Management Section.**
8 **Q Which section involves a well and**
9 **septic?**
10 **A Both do. They both do different things.**
11 **Q How long have you been there?**
12 **A I've been with the Howard County Health**
13 **Department since May of 2002.**
14 **Q In the present position you have now?**
15 **A The last two months.**
16 **Q The last two months.**
17 **What position did you hold before that?**
18 **A When I came to the Howard County Bureau**
19 **of Environmental Health, I was a Sanitarian Two,**
20 **Registered. In January of '03, I was promoted to**
21 **the Development Coordination Section Supervisor.**

Page 7

1 **Just recently, I've been promoted to the well and**
2 **septic program supervisor.**
3
4
5 **Q Who is Steven R. Krieg -- K-R-I-E-G?**
6 **A Steven Krieg used to be the Groundwater**
7 **Management Section Supervisor, and before that he**
8 **was an Environmental Sanitarian Two, at the time**
9 **the letter was being issued. He is no longer**
10 **employed with the Howard County Bureau of**
11 **Environmental Health.**
12 **Q Are you assuming, or have assumed, some**
13 **of the duties that Mr. Krieg used to have?**
14 **A Yes.**
15 **Q What were those duties that you're**
16 **assuming?**
17 **A He was the, when he left for a transfer**
18 **to Frederick County, he was a Groundwater**
19 **Management Section supervisor. At the time, he**
20 **supervised the issuance of well permits, septic**
21 **system repairs, and replacement wells, and I think**

Page 8

1 **that's it. I think those were his primary duties**
2 **then.**
3 **MR. HARVIS: If I might, just for record**
4 **keeping, you were -- he's here as designee of**
5
6
7 **Howard County Health Officer -- Penny E.**
8 **Borenstein, M.D., Howard County Health Officer**
9 **designee.**
10 **Is that who he is appearing here for?**
11 **MR. CHAMPION: I don't know. Ask him.**
12 **You can ask him, Dave.**
13 **MR. HARVIS: Well, the notice that I got**
14 **was her. So, I'm just clearing up.**
15 **MR. CHAMPION: That's who we subpoenaed.**
16 **MR. HARVIS: You said "subpoenaed Penny**
17 **E. Borenstein."**
18 **MR. CHAMPION: Correct.**
19 **MR. HARVIS: Okay, and just to clear the**
20 **record, you're here as the designee of Penny E.**
21 **Borenstein.**

Page 9

1 **THE WITNESS: Yes**
2 **MR. HARVIS: Thank you.**
3 **BY MR. CHAMPION:**
4 **Q Do you recall you and I had a telephone**
5 **conversation last week about this deposition?**
6 **A Yes, sir.**
7
8
9 **Q When we talked, I asked you about a**
10 **letter dated August 15th, 2002?**
11 **A Yes, sir.**
12 **Q At the time, you told me you could not**
13 **find that in the file.**
14 **Is that true?**
15 **A Right.**
16 **Q And you asked me to fax it to you?**
17 **A Yes.**
18 **Q Did I do that?**
19 **A Yes, you did.**
20 **Q Have you had a chance to review that**
21 **letter?**

1 **A Yes, sir, I did.**
 2 **Q** I'm showing what's going to be marked as
 3 exhibit number one.
 4 (Boris Deposition Exhibit No. 1 marked
 5 for identification.)
 6 **BY MR. CHAMPION:**
 7 **Q** Thank you.
 8 Is that the letter that I faxed to you?
 9
 10
 11 **A Yes, sir, it is.**
 12 **Q** Do you have any idea why it wasn't in
 13 the file when you and I talked, Mr. Boris?
 14 **A Yes. At the time we are trying to**
 15 **condense file space, and whenever a building**
 16 **permit got approved all correspondence leading up**
 17 **to the approval of that building approval permit**
 18 **is taken out.**
 19 **Q** What's the date of that letter?
 20 **A August 15th, 2002.**
 21 **Q** Who authored that letter as far as you

1 process would you like me to begin.
 2 Before --
 3 **BY MR. CHAMPION:**
 4 **Q** How about when --
 5 **A When a lot is just a vacant lot, or at**
 6 **what point in time? 'Cause, there's various**
 7 **stages in the development process that we're**
 8 **involved in.**
 9 **Q** After God created the earth.
 10 **A Okay. The first step we do is, we**
 11 **review a subdivision proposal submitted at the**
 12 **time, either as a preliminary plan or as a sketch**
 13
 14
 15 plan. Judging by the age of this lot, it was
 16 probably a sketch plan approval through the
 17 Department of Planning and Zoning.
 18 At that point in time, we're required to
 19 go out and perk test the land, to see if it can
 20 support a minimum of 10,000 square feet per sewage
 21 disposal area, and a well site location that is

1 know?
 2 **A Mr. Steven Krieg.**
 3 **Q** Have you had a chance to read the
 4 letter?
 5 **A Yes.**
 6 **Q** Is there anything in the file that would
 7 in any way change, alter, countermand, or withdraw
 8 any representations made in that letter?
 9 **A None.**
 10 **Q** Can you explain to me, real quick like,
 11
 12
 13 if you would, what is the process a contractor
 14 goes through in Howard County when they apply for
 15 their building permit and the project they're
 16 going to build requires a well and septic?
 17 How do they get that well and septic
 18 information approved?
 19 (Interruption.)
 20 (Discussion off the record.)
 21 **THE WITNESS:** At what stage of the

1 not impacted above slope from any future or
 2 current septic systems.
 3 At this point in time, the health
 4 department physically goes out and visits the
 5 site, excavates some holes on that site,
 6 designates the area that will be considered sewage
 7 disposal area --
 8 **Q** Excuse me, I'm going to need to
 9 interrupt you, because if I don't I won't remember
 10 what you're saying, and I'm trying to make good
 11 notes, okay.
 12 Can we just talk for a second, circle
 13 back to the sketch plan?
 14 **A Yes.**
 15
 16
 17 **Q** Who produces, puts together, draws,
 18 manufacturers, makes that available --
 19 **A The sketch plan is done by an engineer**
 20 **employed through the developer or landowner of**
 21 **some kind. The health department is not directly**

1 involved in the preparation of that plan.

2 Q In your file, was there a sketch plan?

3 A Judging by the age of the property, I
4 would have to look back and see. We do things a
5 lot differently now than what was done then, if
6 I'm not mistaken.

7 Let me see if I can find the original
8 test date, and I can probably make a relative --

9 Q Mr. Boris, when you reference to test
10 date, you're referencing to the perk test?

11 A Yes, sir.

12 Q Okay.

13 A I have here that in 1986, I believe, an
14 application was made for a perk test on this
15 property.

16 Q Do you know whether or not, from that
17
18
19 application, that there was a landowner or
20 developer or a contractor?

21 A It was the property owner out of

1 Q So, when a owner or a contractor would
2 apply for a building permit, what steps, if any,
3 does the owner or contractor have to take to
4 present evidence to the building inspections
5 permits department, as well as your department, as
6 to what usage they're going to make of the septic
7 and well system?

8 A The Building Permits Program, Department
9 of Inspections Licensing and Permits, basically
10 forwards their building permit application to us
11 with an assigned number and a copy of the site
12 plan.

13 The most information we receive off of
14 that is the number of bedrooms, and at that point
15 in time, that's what we're reviewing for our
16 septic system design.

17 Q In this application for lot 17 at 13516
18 Narrow Leaf Court over in Highland, having a
19 building permit number B00137608, is that review
20 process for that application what generated this
21 August 15th, 2002 letter?

1 Bethesda, Maryland, and then there was a
2 prospective buyer.

3 Q Do you have a name?

4 A I have the property owner as Brighton
5 Dam Limited Partnership, and prospective buyer as
6 Celta Corporation. Neither of those two names I'm
7 familiar with.

8 Q So that sketch plan was submitted to the
9 department, in anticipation of some day wanting to
10 get a perk test that would pass, as far as the
11 county health department was concerned.

12 Is that right?

13 A Yes.

14 Q What happened next?

15 A We went out and perk-tested the
16 property, and we dug a total of six holes on the
17 property back in 1985, '85, somewhere in there,
18 and they were held, and apparently along the way
19 the subdivision got approved along with this lot
20 and all the other lots with it, and it sat vacant
21 until a lot was applied for a building permit.

1 A Yes.

2 Q So, what is your understanding of what
3 that letter generally refers to?

4 A The letter dictates that with an eight
5 bedroom home, there might not have been enough
6 area to accommodate that under the design criteria
7 as it was back then.

8 This letter right here is pretty
9 standard for residence that were five bedrooms or
10 more at the time, based on the linear square
11 footage required for the septic system
12 installation.

13 Q When the letter was written up in August
14 15th, 2002, had the building permit been granted?

15 A No.

16 Q Why not?

17 A Because the septic system design, or the
18 minimum 10,000 square feet, probably was not
19 suitable, based on this letter here. He has on
20 here that 1,440 linear feet of trench for three
21 systems would not be -- would not fit in that

1 **minimum 10,000 square foot area.**
 2 Q Well, how would the owner or contractor
 3 know what was required for the eight bedroom house
 4 as originally planned in the way of a well and
 5 septic system?

6 A **Unless they had the actual copy of the**
 7 **perk test notes and came to us before they applied**
 8 **for the building permit, they would have never**
 9 **known.**

10 Q Would most contractors or owners need to
 11 know that when they submit their plans for a
 12 building permit?

13 A **Not necessarily.**

14 Q Why not?

15 A **We have the engineers provide us a copy**
 16 **of where the septic tank is going to go and a**
 17 **distribution box. What that does is, it shows us**
 18 **elevations, basically, as to where these items are**
 19 **going to be placed under the ground surface.**

20 **There's a certain requirement for tank**
 21 **manufacturers that we try to maintain for the**

1 another?

2 A **Whenever the building permit got**
 3 **modified, that's whenever we would have, in**
 4 **essence, rescinded this letter and designed a**
 5 **system as such on the resubmitted building permit**
 6 **application, or amended building permit**
 7 **application.**

8 Q Do you know, by chance, when that
 9 happened, sir?

10 A **I have a date here in our file as to**
 11 **when we received an amended -- or, at least from**
 12 **the county.**

13 **The approval was, let me look here, the**
 14 **original building permit submitted came in on**
 15 **7/24/2002. We approved or reviewed the amended**
 16 **one on -- or, received the amended building**
 17 **permit, which was the modification from the eight**
 18 **bedroom to the five bedroom, on the 21st of**
 19 **August, 2002.**

20 Q And, after that, you would have sent it
 21 back to licensing and permits?

1 **safety of their product, so you don't have too**
 2 **much dirt put on top of it.**

3 **For a proposal like this, we usually**
 4 **take it one step further and state, "Okay, now you**
 5 **know what you've got to do. If you come back with**
 6 **your next submission, we'll review that next**
 7 **submission based on notes and things like that."**

8 Q Well, wouldn't that be typical anytime
 9 your department kicked it back to them for
 10 something?

11 A **Yes. If there's a problem with not**
 12 **fitting it in, or the area's going to be over-**
 13 **extended, yes, we usually send them some kind of**
 14 **notice.**

15 Q Do you have any information in your file
 16 as to when the building permit -- excuse me,
 17 strike that.

18 Do you have any information in your file
 19 as to when you folks were satisfied that the
 20 condition and proposed design of the house and
 21 well and septic system were adequate for one

1 A **Once we approved it, yes.**

2 Q So, is it reasonable to assume that
 3 sometime after August 21st, 2002, the building
 4 permit that I mentioned earlier ending in 608 was
 5 granted?

6 A **Yes. According to my documentation, it**
 7 **was September 5th, 2002, is when the health**
 8 **department approved the five bedroom home.**

9 Q Okay, so the building permit was filed
 10 July 24th, 2002.

11 A **Yes. That's when we received it in our**
 12 **office. It might have been a day before that,**
 13 **that the county --**

14 Q Excuse me, you received it in your
 15 office on that date.

16 A **Yes.**

17 **MR. CHAMPION: That's all I have, David.**
 18 **Karen?**

19 **MS. AMOS: (Shakes head.)**

20 **EXAMINATION BY COUNSEL FOR THE PETITIONER,**
 21 **COUNTER-DEFENDANTS**

1 BY MR. VANCE:
 2 Q Mr. Boris, how're you doing, I'm Andy
 3 Vance.
 4 A **Morning Andy.**
 5 Q Hi. Can somebody hand me what's exhibit
 6 one there?
 7 MR. HARVIS: (Responds as requested.)
 8 MR. VANCE: Thanks a lot.
 9 BY MR. VANCE:
 10 Q You have the same copy of this in front
 11 of us, so when we talk about it, you got a letter
 12 and I got a letter?
 13 A **Yes, I have it right here.**
 14 Q Okay. Do you know whose handwriting
 15 this is on here, it says, "File permit
 16 application"?
 17 A (No response.)
 18 Q Does your copy have that?
 19 A **No, it does not.**
 20 Q Let me show you the one that's been
 21 marked as -- well, it hasn't been marked as

1 Q All right, Mr. Boris, I'm going to draw
 2 your attention to paragraph three of this letter
 3 of August 15th, 2002.
 4 It starts with the words "It may be
 5 possible," do you see that?
 6 A **Yes.**
 7 Q First of all, you had indicated, I
 8 believe, that this was somewhat of a standard
 9 letter whenever a builder or owner submitted a
 10 request for permit for a house that would have had
 11 five or more bedrooms, this letter went out, is
 12 that right?
 13 A **Any property that could not have -- with
 14 the minimum 10,000, yes, we would have probably
 15 sent them something like this.**
 16 **Not just specific five bedrooms, but it
 17 was two bedrooms, three bedrooms, if a perk rate
 18 was slow enough and the 10,000 didn't accommodate
 19 that, we would have probably requested this.**
 20 Q Okay, so it had to do with whether or
 21 not the perk rate accommodated the planned number

1 exhibit one.
 2 Where's the one that's been marked
 3 exhibit one?
 4 MR. CHAMPION: Right here, Andy.
 5 MR. VANCE: Oh, okay. You want to give
 6 that to Mr. Boris?
 7 MR. CHAMPION: (Responds as requested.)
 8 THE WITNESS: I have exhibit one.
 9 BY MR. VANCE:
 10 Q May I see that, Mr. Boris.
 11 A (Responds as requested.)
 12 Q No, that doesn't have the handwriting on
 13 it, okay.
 14 Paul, is this your copy -- what's this?
 15 MR. CHAMPION: That's from another file
 16 from the building permits inspection's office.
 17 MR. VANCE: Okay. Are there any other
 18 differences between the two?
 19 MR. CHAMPION: Not that I know of.
 20 MR. VANCE: Okay.
 21 BY MR. VANCE:

1 of bedrooms, as opposed to a trip wire where, if
 2 it was five-plus bedrooms, this letter went out.
 3 A **Yes. Until the building permit comes
 4 in, we actually have no idea what's going to be
 5 built on that property.**
 6 Q Have you seen this exact letter, other
 7 than the permit number, the address, and the
 8 addressee, Rick Minor, have you seen this form on
 9 other -- in other files?
 10 A **This is not a standard form letter. As
 11 of this time we did not have such form letters, it
 12 was basically written by the individual staff
 13 member, you know, as a template, at some --
 14 probably in the past.**
 15 **But, yes, I have seen similar requests
 16 and similar responses.**
 17 Q Paragraph three, the first sentence, I'm
 18 paraphrasing, talks about a possible solution to
 19 the problem which existed by means of a -- strike
 20 that.
 21 The problem here is the septic area, is

1 that correct?

2 A (No response.)

3 Q The septic area of this particular lot
4 on Highland Meadows, Lot 17, correct?

5 A This -- yes, yes.

6 Q All right, the possible solution to the
7 problem is covered in paragraph three, is that
8 fair to say?

9 A Yes. With the timetable specified at
10 the end as to when that testing would take place.

11 Q Okay, couple different things could have
12 been done. Number one, you could have expanded
13 the septic field, assuming that the physical
14 conditions of the land allowed that to happen.

15 Is that correct?

16 A Absolutely.

17 Q Okay, now, if we were going to go down
18 that road in August of 2002, what would have been
19 necessary?

20 A A simple plan submission, showing where
21 you would like to test or where the proposed

1 perk testing and any analysis and any engineering?

2 A Our office would have done the perk
3 testing itself. The engineering would have been
4 placed on the owner, developer, whoever was
5 requesting the area be expanded.

6 Q If you were going to give us an estimate
7 of the amount of time that would have been
8 involved, assuming that percolation tests passed,
9 can you give us an idea of how much time would
10 have gone by before a permit could have been
11 issued?

12 A Once all that area got approved and
13 tested, just judging by this, I'm going to say
14 earliest test date probably may have been March.

15 Q Of '03.

16 A Of '03.

17 Q And, then, assuming everything passed
18 again then the permitting of that lot would have
19 occurred sometime thereafter.

20 A Right.

21 Q Okay.

1 testing would be, either near or above or below
2 this area that was approved.

3 The timetable, of course, being wet
4 season 2003, based on perk test notes we have
5 indications of water table at lower elevations.
6 As soon as we see that, it's our job to protect
7 public health and protect groundwater at the same
8 time, we have certain setback and buffer
9 requirements that the state requires and mandates
10 that we control.

11 2002, we were just coming off of one of
12 the worst droughts in the history in the State of
13 Maryland, and until July of 2003 we received
14 extremely above normal rainfall.

15 So, we could have taken a snapshot
16 anytime in the spring to late spring, early
17 summer, and got a reasonable indication of how far
18 limits could have been pushed, based on soil test
19 results.

20 Q Okay, now, if that process was going to
21 be undertaken, who would have actually done the

1 A Hopefully within the turnaround time
2 based on the engineer, whoever, was drawing the
3 plans after that.

4 Q Am I correct that the second sentence of
5 paragraph three brings in a second possible
6 solution to our problem that existed in August of
7 '02?

8 A Yes.

9 Q And that would have been changing the
10 number of bedrooms, correct?

11 A Yes.

12 Q Let me ask you some background question.

13 Do you know why the Howard County
14 Department of Health bases the size of the septic
15 field on the number of bedrooms as opposed to any
16 other variable in the house?

17 A That comes from the Code of Maryland
18 Regulations dictating how much flow do you receive
19 per the number of bedrooms. Every county is able
20 to either enforce that as a minimum or go above,
21 but not less than, the Code of Maryland

1 Regulations.

2 Here in Howard County, COMAR, I believe,
3 states 75 gallons per person. We have taken that
4 number and made it to 150 gallons per bedroom,
5 simply because most people have two people living
6 in a bedroom. You know, we look at trying to
7 maximize the total possible occupants in the
8 house.

9 Q Okay, so the assumption, I take it then,
10 is that every time you see a bedroom on permit
11 drawings there's an assumption that there are two
12 individuals per bedroom.

13 A It's assumed that we're going to rate it
14 at 150 gallons per bedroom, not necessarily the
15 number of individuals that are in that bedroom.

16 Q But the rating for number of gallons per
17 bedroom --

18 A Right.

19 Q -- is based on the assumption of there's
20 two human beings that are using the septic field
21 and the water for the house.

1 size of septic field?

2 A I believe that addition to the code took
3 place in 1972, which would have been a month
4 before I was born, so I don't know of any kind of
5 historical information that I could extrapolate
6 for you on that question.

7 Q Okay.

8 MR. CHAMPION: Asked and answered.

9 BY MR. VANCE:

10 Q Is it fair to say, then, you don't know
11 whether there was empirical data that actually was
12 used --

13 A There's plenty of reference to know that
14 when we do -- when MDE came up with the Code of
15 Maryland Regulations, they have two things.
16 There's an average daily design flow and a maximum
17 daily design flow.

18 We build every system on a maximum daily
19 design flow, and what that number comes from is
20 supporting evidence as to building the "best"
21 system possible. So, that, we don't have a system

1 A Yes.

2 Q That's how we got to the number --

3 A It's empirical. I mean, a lot of that
4 number comes from data that's been collected over
5 20 or 30, 40 years, from other various sources and
6 things like that.

7 Q Do you know whether or not there is any
8 data that show a correlation between number of
9 bedrooms and usage of a septic field?

10 A We don't have individual water meters
11 installed on residential septic systems, but some
12 of this stuff we can probably trace back to
13 utility information on public water and public
14 sewer plan review.

15 Q Do you know if that has been done?

16 A Yes, they have those numbers.

17 Q Do you know if those numbers were
18 historically -- strike that.

19 Do you know if those numbers were used
20 to come up with the COMAR, Code of Maryland
21 Regulations, standard that correlates bedrooms to

1 that is under-designed, therefore leading to
2 premature failure, causing excessive burden and
3 cost to the homeowner.

4 Q Okay, and designing for maximum usage --

5 A Yes.

6 Q -- is based on two people being -- or,
7 strike that.

8 Design for maximum usage is based on 150
9 gallons of usage per bedroom.

10 A Yes.

11 Q And, I'm sorry, 150 gallons per what
12 time period?

13 A It's as long as the number of bedrooms
14 are in that house. If they have five bedrooms
15 today, it will be 150 gallons times five bedrooms
16 tomorrow.

17 And, it's important to realize that
18 whenever you're talking about design of septic
19 systems, the maximum daily design flow is two
20 times the average daily design flow.

21 So, you have 75 gallons "per person,"

1 you double that. That's where you get your 150
2 from.

3 Q Per day.

4 A Per day.

5 Q Per bedroom.

6 A Per day per bedroom.

7 Q Got you. Okay.

8 How does Howard County know what an
9 individual room is going to be used for, bedroom
10 or some other use, how do you know that?

11 A Interesting question. It's basically
12 based on the plans submitted to the county's plan
13 review. We dictate -- we don't do construction
14 building permit review. I do not have anywhere in
15 that code that dictates what a "bedroom" is.

16 So, a bedroom can be defined by any
17 standard that they have at the county, and most of
18 the time it's indicated on the building permit
19 plan. They kind of sort of double-check that.
20 They've been known to call us up stating that, you
21 know, "This is a" -- "It says on the permit four

1 A Yes.

2 Q Am I correct that the second possible
3 solution is in the second sentence of paragraph
4 three of exhibit one, which says, "It is
5 recommended that either the building permit
6 application is amended to reflect a reduction in
7 the number of bedrooms and/or additional
8 percolation tests are performed pending approval
9 of the proposed percolation test plan."

10 So, that, the other solution is to
11 change the number of bedrooms that you're
12 reducing, is that correct?

13 A Yes.

14 Q In your experience with Howard County,
15 when this problem comes up of having too many
16 bedrooms, has this happened in the past, that the
17 owner, developer, builder, or some other person
18 who is responding to this letter, reduces the
19 number of bedrooms?

20 A I've seen it happen both ways. I've
21 seen additional percolation testing performed.

1 bedrooms, it's a six bedroom house," they've been
2 known to contact us and let us know that, because
3 the building permit plan is either just, that was
4 left off or somebody made a mistake when they
5 filled it out, things of that -- that occurs
6 often.

7 Q Okay.

8 How do you suppose that a builder would
9 know what an individual room in a proposed home
10 was going to be used for?

11 A I couldn't answer that. I don't know.

12 Q Fair enough.

13 Okay, now, getting back to that second
14 sentence in paragraph three --

15 A Yes.

16 Q We talked about the first possible
17 solution, which was a re-engineering, new
18 percolation tests, perhaps a new septic field, new
19 design, going through the permit process taking us
20 out past March of '03, some time past March of
21 '03, correct?

1 I've seen a reduction in number of bedrooms, also,
2 as well.

3 Q In this particular case, for Lot 17
4 Highland Meadows, what, if any, response did
5 Howard County Health Department get to this August
6 15th, 2002 letter?

7 A The amended number of building permits
8 -- amended number of bedrooms that we received on
9 the 21st of 2002, August 21st of 2002.

10 Q And it showed how many bedrooms?

11 A Five.

12 Q Okay --

13 A And that number was amended at the
14 county as well.

15 Q Do you know what role, if any, the
16 present owner of that lot had in conveying that
17 information ultimately to Howard County, as to the
18 number of bedrooms and where they were going to be
19 located in the house?

20 A I would have no idea.

21 Q Is it fair to say you don't know what

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1 role the builder played either?
 2 A No.
 3 Q Okay --
 4 A I don't know who amended the building
 5 permit is what I'm getting at, that could have
 6 been anybody.
 7 Q But, would you agree with me that it is
 8 acceptable -- strike that.
 9 Would you agree with me that in this
 10 particular case, it was acceptable to the health
 11 department to reduce the number of bedrooms?
 12 A Yes.
 13 MR. VANCE: Okay, thank you.
 14 EXAMINATION BY COUNSEL FOR THE RESPONDENTS/
 15 COUNTER-PLAINTIFFS
 16 BY MR. CHAMPION:
 17 Q Mr. Boris.
 18 A Yes, sir.
 19 Q For Lot 17 Highland Meadows, as of
 20 August 15th, 2002, without a perk test in the
 21 spring of 2003, that house could not have be built

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1 with eight bedrooms.
 2 Is that true?
 3 A Right.
 4 MR. CHAMPION: Thank you. Nothing
 5 further.
 6 THE REPORTER: Who's advising the
 7 witness about reading?
 8 (Discussion off the record.)
 9 THE WITNESS: Right, I'd probably want
 10 it and take that back to my --
 11 THE REPORTER: Read it?
 12 THE WITNESS: Yes.
 13 (Thereupon, at 10:15 a.m., the
 14 deposition was concluded.)
 15
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 20
 21 CERTIFICATE OF DEPONENT

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1
 2 I hereby certify that I have read and
 3 examined the foregoing transcript and, with
 4 corrections made by me, if any, the same is a true
 5 record of the testimony given by me.
 6
 7
 8
 9 JOHN A. BORIS, JUNIOR
 10
 11
 12 Subscribed and sworn to before me this
 13 day of , 2004
 14
 15
 16 Notary Public in and for
 17 the State of Maryland
 18
 19
 20
 21 My Commission Expires:

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1 STATE OF MARYLAND
 2 COUNTY OF HOWARD, SS:
 3 I, Valerie A. Shirley, a Notary Public in and
 4 for the State of Maryland, County of Howard, do hereby
 5 certify that the within named JOHN A. BORIS, JUNIOR
 6 appeared before me at the time and place herein set
 7 out, and after having been duly sworn by me according
 8 to law, was interrogated by counsel.
 9 I further certify that the examination was
 10 recorded by me by magnetic tape and thereafter reduced
 11 to typewriting by me or under my direction; that said
 12 testimony is a true record of the testimony given by
 13 said witness.
 14 I further certify that I am not counsel to
 15 any of the parties, nor an employee of counsel, nor
 16 related to any of the parties, nor in any way
 17 interested in the outcome of this action.
 18 As witness, my hand and Notarial Seal, this
 19 18th day of August, 2004.
 20 Notary Public
 21

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