

4/27/01 - layout pm (3pm)

03-322548

PERMIT

SEWAGE DISPOSAL SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
410-313-2640

P 515036

A 50617-BB

ISSUE DATE 4-11-01

APPROVAL DATE 5/1/01

INDEXED

4/30/01
layout
own
5/1/01
PM

Fogles Septic Clean, Inc. IS PERMITTED TO INSTALL X ALTER

ADDRESS 580 Obrecht Road, Sykesville, MD 21784 PHONE 410-795-5670

SUBDIVISION Woodfords Grant LOT NUMBER PP-A ADDRESS 11300 Barley Field Way

PROPERTY OWNER Ray Brookhart PROPERTY OWNER'S ADDRESS 10213 Baltimore Nat'l Pike

SEPTIC TANK CAPACITY 1250 GALLONS 4/30/01 Ellicott City, MD

PUMP CHAMBER CAPACITY 1250 GALLONS ← TOP SEAM REQUIRED FOR FUTURE PUMP SYSTEM

NUMBER OF BEDROOMS 4

SQUARE FEET PER BEDROOM 180

LINEAR FEET OF TRENCH REQUIRED 240

TRENCHES: Trenches to be 3 feet wide. Inlet 2 feet below original grade. Bottom maximum depth 4 feet below original grade. 2 feet of stone below distribution box.

LOCATION: Stake septic easement. Begin trenches in highest portion of the sewage disposal easement. 9/1/00 O.K. (BB)

PLANS APPROVED Mark Rifkin DATE 7/27/2000

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

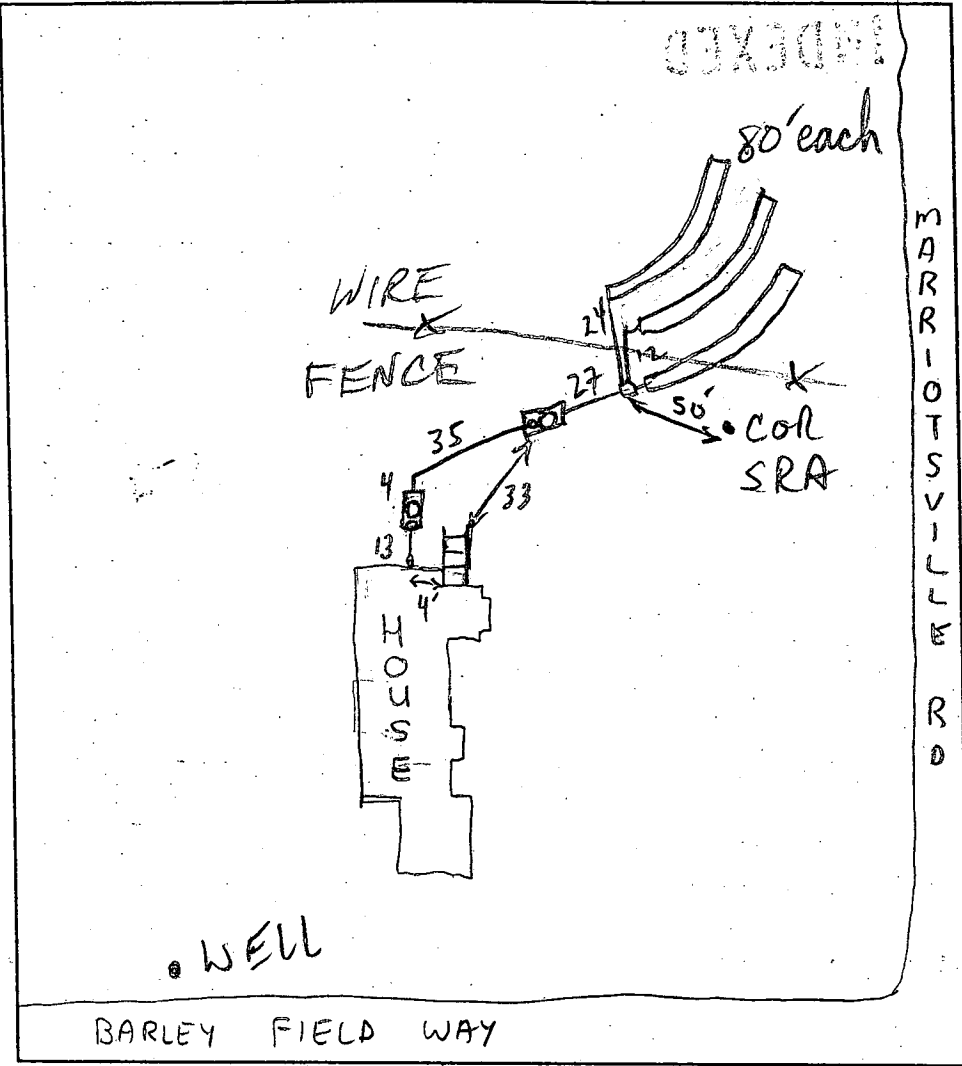
NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

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

450617-BB

NOT TO SCALE



TRENCH DATA

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

SEPTIC TANK DATA

SEPTIC TANK 1250TS GALLONS
 MANHOLE RISER
 6 INCH INSPECTION PORT

PUMP CHAMBER DATA

PUMP CHAMBER GALLONS 1250 / TS
 MANHOLE RISER w/6"
 ALARM N/A
 PUMP PERFORMANCE TEST N/A

PRE-CONSTRUCTION INSPECTION: 4/27/01 layout uncertain - SDA started contractor to check curbs and confirm layout. MR

INSPECTION COMMENTS: 4/30/01 - MET w/INSTALLER, PUMP TANK REQUIRED FOR FUTURE USE OF UPPER 1/3 OF SDA, INSTALL 1ST SYSTEM ON GRAVITY (3-80') TRENCHES ON CONTOUR IN CENTER OF SDA (2' INLET, 4' BOTTOM) CONTOUR IN FIELD DIPPERS FROM PLAN! - SRW

5/1/01 OK TO COVER TANKS + TRENCHES, ALL WORK OK (MR)

INSPECTOR MR SRW

DATE SYSTEM APPROVED 5/1/01

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410) 313-2040 FAX: (410) 313-2648

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for obtaining all necessary permits from the local health department 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 (WID Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: Eagle Well Drilling Telephone #: 410-795-5670
Address: 388 Abbott Rd
Sylvestre Md 21784

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer

License # and name of individual responsible for the field installation:
Name (Print): Allen Compton License# MSD 009

*A licensed individual must perform the actual installation. Apprentices must be under the supervision of a licensed journeyman or master plumber, pump installer or well driller. Licensees may be subjected to field verification. Unlicensed individuals may be reported to the appropriate licensing agency.

Name of Property Owner: Barbara Brookhardt Telephone #: _____
Subdivision: _____ Lot #: _____ Well Tag #: HO 94-1375
Site Address: 11300 Barleyfield Way
Marrattsville Md

Submersible Pump Data Model #: <u>7587427</u> Pump Capacity: <u>7</u> GPM Well Yield: <u>1.2</u> GPM	Pitless Adapter Model #: <u>Chamco 211</u> Depth: <u>42</u> (36" min) NSPC/MSD approved: <u>yes</u>	Well Cap and Electric Conduit Two piece venturi cap: <u>yes</u> Nonmetal venturi cap: <u>yes</u> Cap secured to casing: <u>yes</u> Conduit min 18" B.G.: <u>yes</u>
---	--	---

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.3.4
Torque arrestors, Cable guards, or other acceptable method used- Must circle one
Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing N/A

<u>Piping to house</u> Type: <u>1" Black Plastic</u> PSI: <u>160</u> (160 psi min) Depth of supply line: <u>42</u> (36" min)	<u>House Connection</u> PVC sleeve to undisturbed soil at wall penetration: <u>yes</u> Approximate length of sleeve: <u>5</u> Sleeve caulked and sealed properly: <u>yes</u>
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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.

Allen Compton Signature of company representative responsible for installation
date 2/24/03

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

Date Insp. Requested: _____ Date Insp. Approved: 2/24/03 Inspector: BB
Inspection Data:
Pitless adapter watertight & water supply line at least 30" 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 not seen outside of well cap/casing
Correct well tag attached properly and casing 5" above finished grade
Water supply line sleeved adequately at house connection
Adequate grout observed below pitless adapter

C1 09439

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER A50617BB

ST/CO USE ONLY DATE RECEIVED 2/19/98

DATE WELL COMPLETED 1 26 98

Depth of Well 220 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" H0-94-1375

OWNER Ellicott Land Holdings STREET OR RFD Barley Field Way TOWN MARIOTTTSVILLE SUBDIVISION WOODFORD'S GRANT SECTION LOT Pres. Par A

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Top Soil, Brown shell clay, granite, Blue rock, and G.O.T water.

GROUTING RECORD form including fields for WELL HAS BEEN GROUTED, TYPE OF GROUTING MATERIAL, CEMENT, BENTONITE CLAY, NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL.

CASING RECORD form including fields for casing types insert appropriate code below, MAIN CASING TYPE, Nominal diameter, Total depth.

OTHER CASING (if used) form including diameter and depth fields.

SCREEN RECORD form including screen type or open hole, insert appropriate code below, and fields for STEEL, BRASS, BRONZE, PLASTIC, OPEN HOLE, OTHER.

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED Y N

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. 1 M 3 D L 43 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 M D

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

DEPTH (nearest ft.) table with columns for casing height and depth, including handwritten entries for 21 and 280.

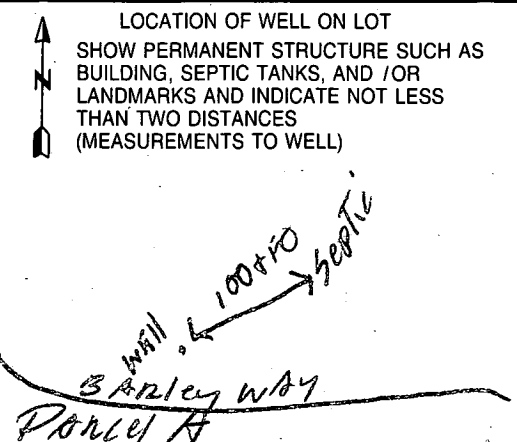
GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

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

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



B 1 **03537** SEQUENCE NO. (DP USE ONLY)
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

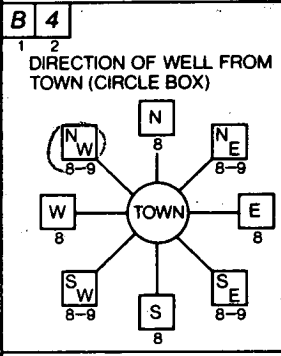
STATE OF MARYLAND
 PERMIT TO DRILL WELL
 please print or type

STATE PERMIT NUMBER
HO-94-11375
 fill in this form completely

Date Received (APA) **010698**
OWNER INFORMATION
 ELI SCOTT LOWE HOI FIVE
 Last Name Owner First Name
 12805 HICKORY RICHMOND
 Street or RFD
 COLYMBIA MD 21044
 Town State Zip

B 3 LOCATION OF WELL
 HOWARD COUNTY
 WOODFORDS GRANT SUBDIVISION
 SECTION 44 LOT 48
 WOODSIDE MARKLETTSVILLE
 52 NEAREST TOWN
 MILES FROM TOWN (enter 0 if in town) **2** MI

DRILLER INFORMATION
 Driller's Name **Perzy Harley** License No. **143**
 Firm Name **Harley Drilling**
 Address **Box 160 WOODKENSVILLE, MD 21793**
 Signature **Perzy Harley** Date **1-6-98**



NEAR WHAT ROAD
Bonley Field Way
 ENTER FT or MI **30**

B 2 WELL INFORMATION
 APPROX. PUMPING RATE (GAL. PER MIN.) **3**
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **500**

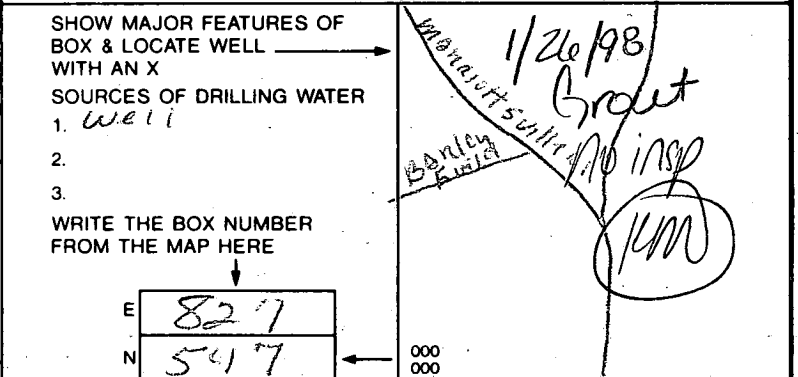
- USE FOR WATER (CIRCLE APPROPRIATE BOX)
- HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)
 - FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
 - INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)
 - PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND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

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
 COUNTY NAME **Howard** COUNTY NO. **A50617BB**
 STATE SIGNATURE **Mark E. Reikin** DATE ISSUED **1/6/99**
 NORTH GRID **547000** EAST GRID **0827000**

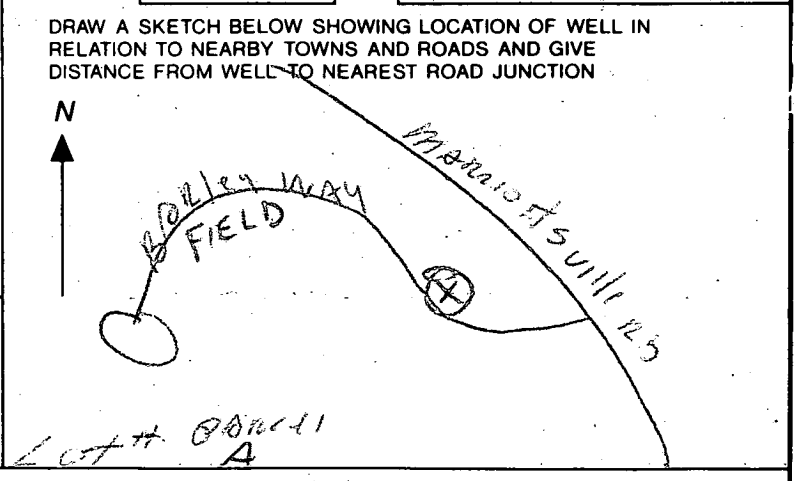
APPROXIMATE DEPTH OF WELL **200** FEET

APPROXIMATE DIAMETER OF WELL **6"** 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



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 DEEPEM 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 **MR** WRITE INITIALS IN BOX PERMIT No. **HO-94-11375**

SPECIAL CONDITIONS

B 1 1980

SEQUENCE NO. (DP USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please print or type

STATE PERMIT NUMBER

H0-94-1344 fill in this form completely

Date Received (APA)

120197

OWNER INFORMATION

ELLICOTT LAND HOLDING Co. Last Name Owner First Name

10805 HICKORY RIDGE RD Street or RFD

COLUMBIA MD 21044 Town State Zip

DRILLER INFORMATION

Austin Barber Driller's Name MSD/MGD/MWD 495

Kerason-Barber Firm Name 77 License No. 80

7145 Bethel Rd Fred MD 21162 Address

Austin Barber Signature 12-1-97 Date

B 3 LOCATION OF WELL

HOWARD COUNTY

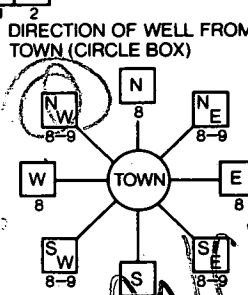
WOODFORDS GRANT SUBDIVISION

SECTION LOT PRESERVATION PARCEL A

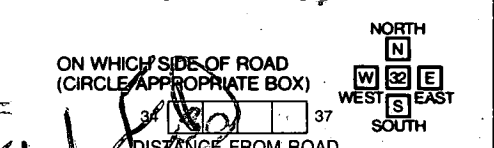
WOODSTOCK NEAREST TOWN

MILES FROM TOWN (enter 0 if in town) MI

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



MARRIOTSVILLE RD/PARLEY FIELD NEAR WHAT ROAD



TAX MAP: 10 BLK: PARCEL: 151

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

13-A50617BB COUNTY NAME COUNTY NO.

STATE SIGNATURE DATE ISSUED INSERT S

120547 Ronald Pinkley 12/5/98 CO SIGNATURE EXP. DATE

NORTH GRID 547000 EAST GRID 0827000

B 2 WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.)

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 820

USE FOR WATER (CIRCLE APPROPRIATE BOX)

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

APPROXIMATE DEPTH OF WELL 40 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST TOWN

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)

- N THIS WELL WILL NOT REPLACE AN EXISTING WELL
Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY; CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
D 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)

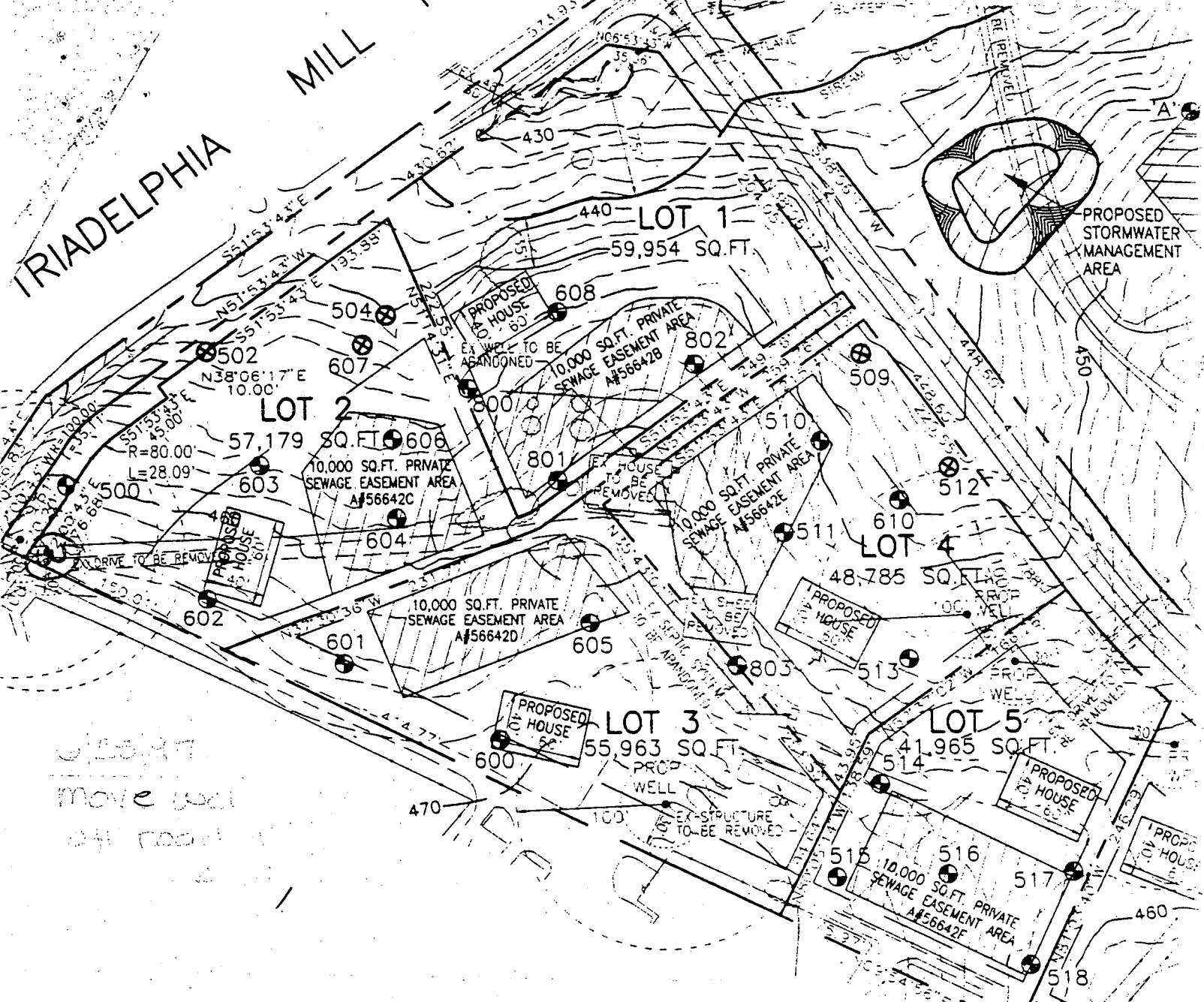
APPROP. PERMIT NUMBER GAP

FORCE PERMIT No. H0-94-1344

SPECIAL CONDITIONS

NOTE = APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED =

TRIADELPHIA MILL



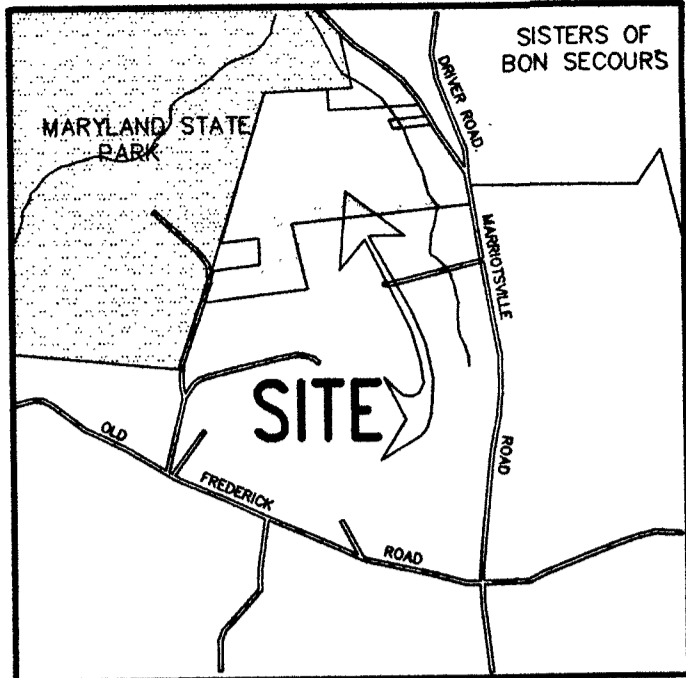
0.2507
 move well
 off road

PERCOLATION TABLE

NORTH	EAST	RESULTS
568541.5	1309888.5	PASS
568473.2	1310003.9	FAIL
568362.3	1310060.2	FAIL
568049.3	1310122.5	FAIL
568059.8	1310057.3	PASS
568066.5	1309990.3	PASS
567972.2	1310063.9	FAIL
567962.8	1309929.5	PASS
567958.2	1309841.5	PASS
567968.9	1309771.9	PASS
567898.4	1309794.6	PASS
567817.8	1309819.7	PASS
567828.5	1309750.1	PASS
567688.9	1309808.7	PASS
567673.7	1309904.3	PASS
567567.0	1309870.4	PASS
567385.4	1309681.1	FAIL
567351.7	1309752.7	PASS
567200.2	1309729.3	PASS
567212.8	1309654.0	FAIL
567152.1	1309669.0	FAIL

7-8-97
 ok to move staked well
 location up to 20'
 to provide adequate clearance
 from road and power lines

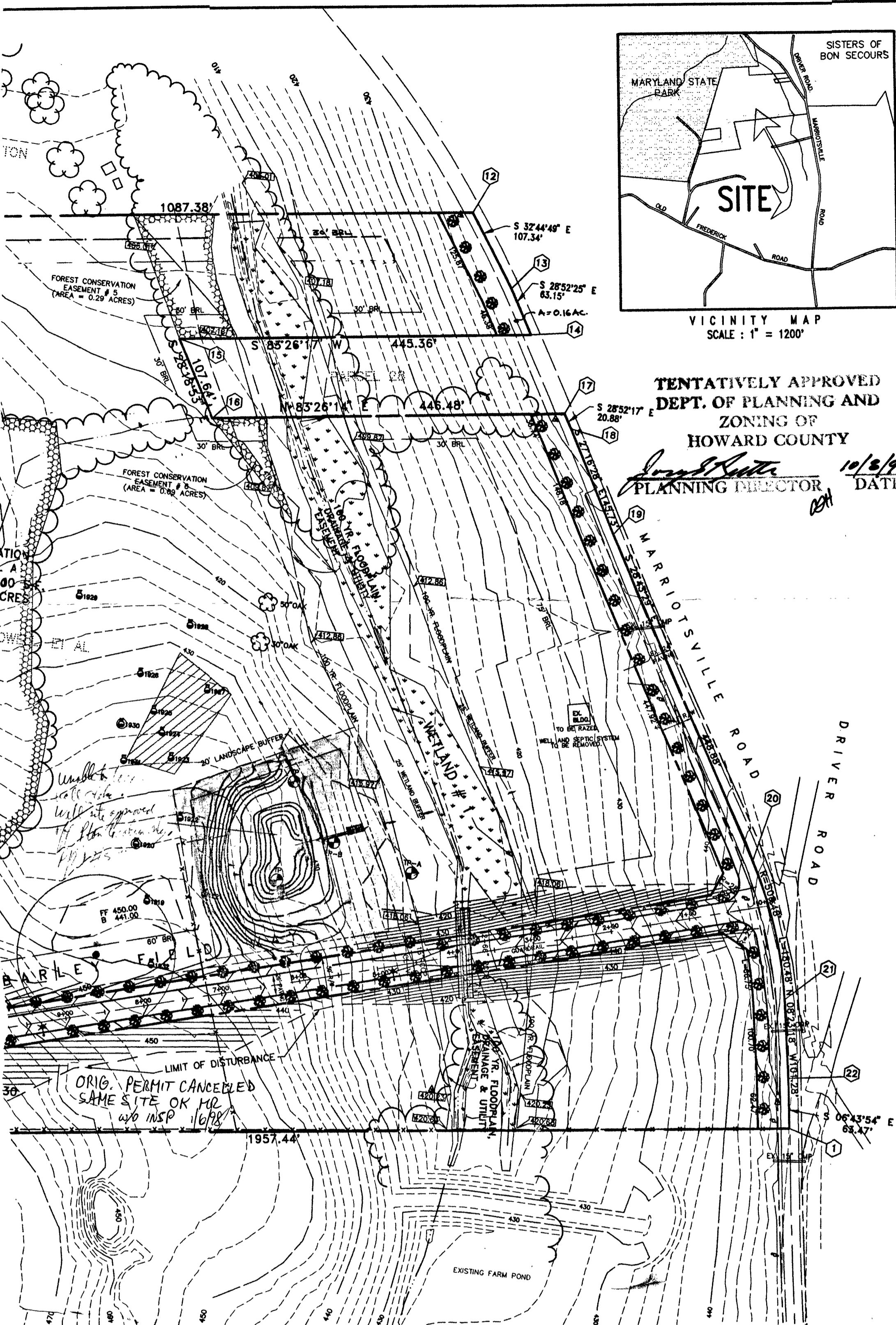
(Km)



VICINITY MAP
SCALE: 1" = 1200'

**TENTATIVELY APPROVED
DEPT. OF PLANNING AND
ZONING OF
HOWARD COUNTY**

Joseph Rutter 10/2/96
PLANNING DIRECTOR DATE



GENERAL NOTES:

- THIS PROJECT IS CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS.
- PROJECT BACKGROUND
 - TAX MAP 10, PARCELS 27, 29 AND 151
 - ZONING - RC
 - GROSS AREA OF SUBDIVISION = 76.98 ACRES
 - AREA OF FLOOD PLAIN = 3.5 ACRES
 - AREA OF STEEP SLOPE = 4.07 ACRES
 - NET AREA = 69.41 ACRES
 - TOTAL AREA OF BUILDABLE LOTS = 25.63 ACRES
 - AREA OF ROAD RIGHT-OF-WAY = 5.95 ACRES
- BOUNDARY AND TOPOGRAPHIC SURVEY WAS PERFORMED BY JOHN C. MELLEMA SR. ON JANUARY, 1995.
- WETLAND DELINEATION WAS PERFORMED BY EXPLORATION RESEARCH INC. ON AUGUST, 1994
- PRIVATE WATER AND PRIVATE SEWER WILL BE UTILIZED.
- TWO (2) RETENTION PONDS ARE PROPOSED FOR STORMWATER MANAGEMENT.
- SKETCH PLAN WAS APPROVED ON DEC. 21, 1994 UNDER S-95-05
- OPEN SPACE DATA:
 - MINIMUM LOT SIZE = 40,000 S.F.
 - OPEN SPACE REQUIRED = 25% OR 19,245 ACRES
 - TOTAL OPEN SPACE PROVIDED (LOTS 7, 27, 28, 29 AND 30) = 19.24 ACRES
 - PRESERVATION PARCEL A = 25.63 ACRES
 - TOTAL OPEN SPACE AND PRESERVATION PARCEL = 44.87 ACRES
- PERMITTED NO. OF LOTS = 76/4.25 = 18
GROSS AREA = 76.98 ACRES
- MAXIMUM NO. OF LOTS USING CEO = 76/2 = 38
GROSS AREA = 76.98 ACRES
- PROPOSED NO. OF LOTS USING CEO = 25 BUILDABLE LOTS
5 OPEN SPACES
1 PRESERVATION PARCEL
- DEVELOPMENT RIGHTS FROM SENDING PARCEL = 7 LOTS (25-18)
- THIS PLAN IS SUBJECT TO WP-95-28 APPROVED ON NOVEMBER 11, 1994 WHICH WAIVED THE REQUIREMENT OF 16.116(9)(1) & 16.116(9)(2) PROHIBITING GRADING OR DISTURBANCE WITHIN 25 FT. OF A WETLAND OR WITHIN 75 FT. OF A PERENNIAL STREAM.

NOTE: DEVELOPER WILL INSTALL TREES 40' ON CENTER ON ALL PUBLIC ROADS INCLUDING MARIOTTSVILLE ROAD.

% SLOPE	MINIMUM LOT AREA	AREA (S.F.)
-	40,000.00	
-	40,000.00	
-	40,000.00	
-	40,000.00	
0.2 %	40,000.00	
4.37 %	40,000.00	
7.23 %	40,000.00	
24.90 %	40,000.00	
19.52 %	40,000.00	
23.02 %	40,000.00	
15.22 %	40,000.00	
25.29 %	40,000.00	
18.29 %	40,000.00	

BEARING	DELTA
N 56°39'52" W	96°34'34"
N 49°52'23" W	82°59'37"
S 46°33'18" W	84°09'00"
S 02°15'55" E	13°29'26"
S 46°59'54" E	75°58'31"

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT

Joseph Rutter 9-13-96
COUNTY HEALTH OFFICER (m/w) DATE

NO.	DATE	REVISION
PROJECT: WOODFORD'S GRANT LOTS 1-30 & PRESERVATION PARCEL A		
LOCATION: TAX MAP 10, PARCEL 27, 29, & 151 3rd ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE: REVISED PRELIMINARY SKETCH EQUIVALENT PLAN		
OWNER: THOMAS POWELL 12905 FALLS ROAD COCKEYSVILLE, MD. 21030		
DEVELOPER: LAND DESIGN & DEVELOPMENT INC. 10805 HICKORY RIDGE RD. COLUMBIA, MD. 21044		
DESIGN: JER	CHECKED: MLL	DATE: 7-19-96
DRAWN: AVG	APPROVED: MLL	PROJ. NO.:
SCALE: 1"=100'		SHEET 1 OF 1

Voria Engineering Inc.
CONSULTING ENGINEERS
8307 MAIN ST., HISTORIC ELLICOTT CITY, MD.
TEL: 410-485-0400 FAX: 410-485-0480

APPLICATION

PERCOLATION TESTING

A 50617-BB
P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2840

DISTRICT _____
DATE 3-30-95

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 Thomas Powell c/o Land Design & Development, Inc.

ADDRESS 10805 Hickory Ridge Rd., Columbia 21044 PHONE (410) 740-2100

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

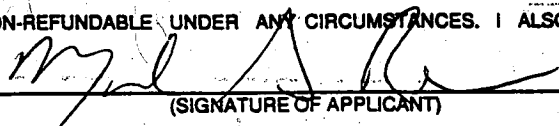
SUBDIVISION Powell Property LOT NO. Preserv. Parcel

ROAD AND DESCRIPTION off of Marriottsville Road, Howard County, MD

TAX MAP 10 PARCEL # 27, 29, 151

SIZE OF LOT 40,000 sq. ft. TYPE BLDG. single family home
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT.


(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

COUNTY #

SOIL PROFILE

0'
Sticky clay
5'
lgt beigh Salm micaceous
7'
hard diggabl bottom > 50% rock (grey rock)

2

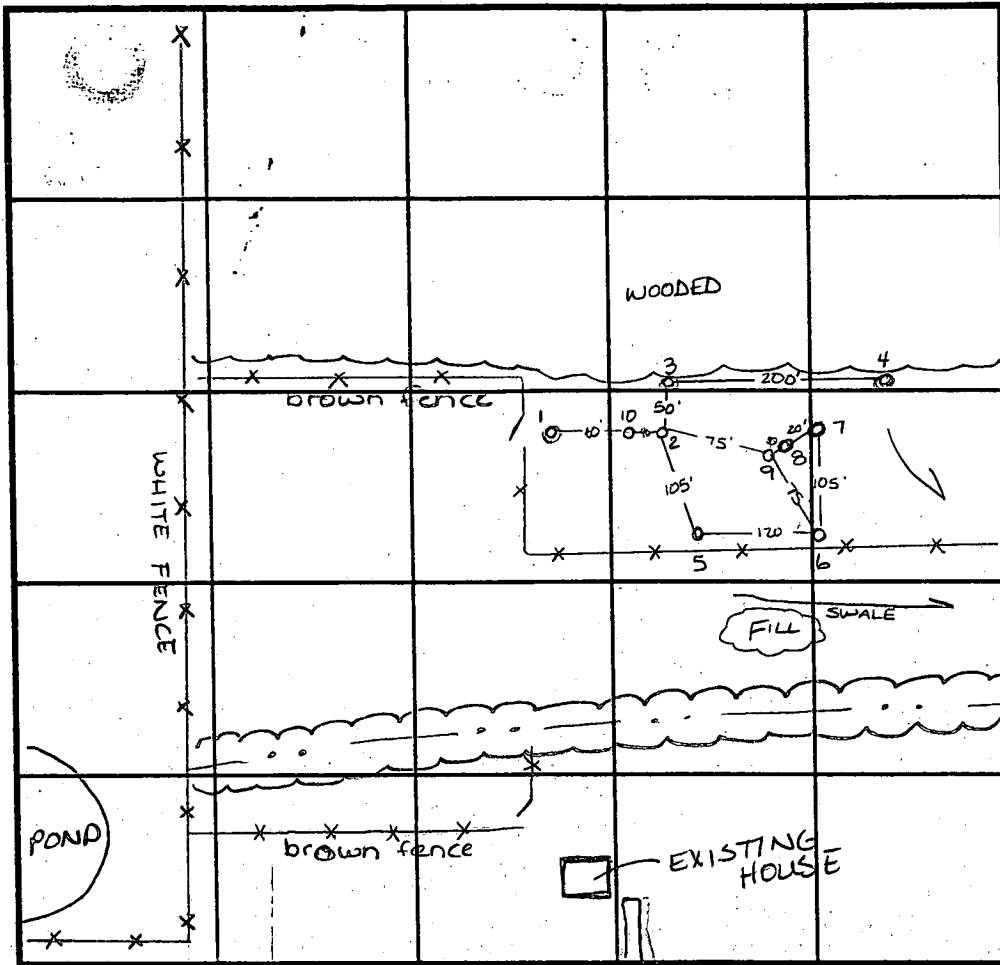
yellow tan Salm

3'
lgt tan Salm < 5% rock
hard bottom at 8'

3

Sticky clay bottom

4'
lgt orange beigh Salm gravelly
hard bottom at 9'



SOIL PROFILE

4
on woods side of hole - hard bottom at 4'. Rest of hole was reddish brn Salm gravelly starting at 5'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE. Marriottsville Road

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
5-15-95	①	3' / v 9'	10:49 ³⁰	> 30 min			(slow)
	2	4' / v 8	11:11 ⁴⁵	11:12 ⁴⁵	11:12 ⁴⁵	11:13 ⁴⁵	1 min
	2	repour	11:14 ³⁰	11:16	11:16	11:18	2 min
	③	4' / v 9'	11:30 ³⁰	> 30 min Appx 1/4 of an inch			in 45 min (slow)
	④	3.5' / v 11'	11:47	> 30 min Appx 1/16 of an inch			in 30 min (slow)

REMARKS use holes 10, 2, 5, 6, 9

TYPE OF SOIL

TESTED BY Amy McMillen ALSO PRESENT Don Reuser

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 4 min TRENCH WIDTH 3'

INLET DEPTH 2' MAXIMUM BOTTOM DEPTH 4' SQ. FT/BEDROOM 180 ft²

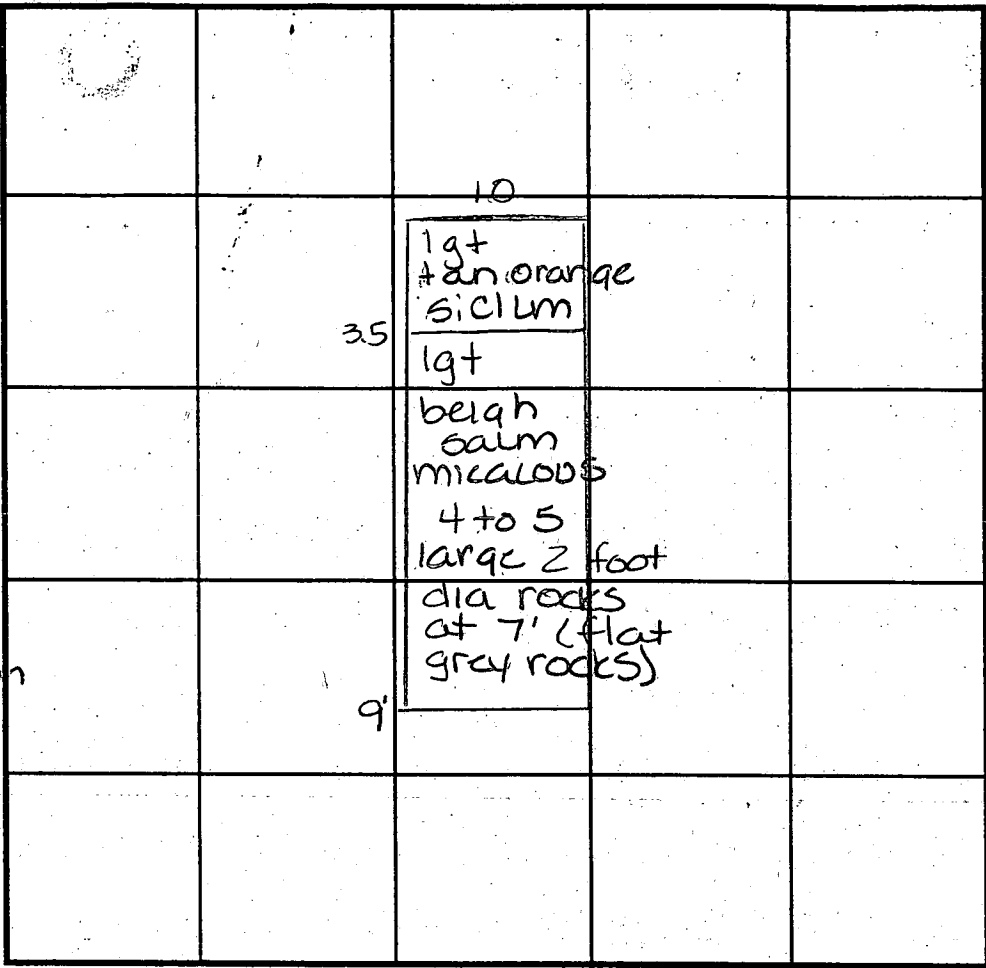
COUNTY #

SOIL PROFILE

0' 5
dark
brn
Salm
2' orange
tan
Salm
micaceous
6' zone of
large
1 foot
boulders
7' lgt tan
Salm
8.5' hard bottom

4.6' dark
brn
clm
2.5' orange
tan
Salm
<5%
gravel
hard
bottom
at 9'

7-8 dark
brn
clm
micaceous
5' orange
tan
Salm
<5%
gravel
hard
bottom
at 8'



SOIL PROFILE

0' 9
brn
clay
3' sandy
brn
Loam
micaceous
no hard
bottom

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
5-15-95	5	4' / 8'	1:20 ³⁰	1:21 ⁴⁵	1:21 ⁴⁵	1:23 ⁴⁵	2min
	6	4' / 9'	11:36	11:38 ³⁰	11:38 ³⁰	11:40 ³⁰	2min
	⑦	2.5' / 8'	1:57	>30 min			Slow
	⑦	4' / 8'	2:09 ³⁰	>30 min			Slow
	⑧	Hard bottom	at 6'				F
	9	4' / 9'	2:50	2:54	2:54	2:59	5min
	10	4' / V	3:20	3:24	3:24	3:30	6min

REMARKS _____
 TYPE OF SOIL _____
 TESTED BY _____ ALSO PRESENT _____
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____
 INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT./BEDROOM _____

PARCEL A
PRESERVATION
PARCEL 'H'
AREA THIS SHEET = 694,516 SF
OR 15.94 Acres
TOTAL AREA = 1,139,358 SF
OR 26.19 Acres
(BUILDABLE)
PRIVATELY OWNED

728°W 118.70'
575°05'1"W
N15°02'5"E
EXISTING 50' ROW - PUBLIC - LOCAL
BARLEY FIELD
MAINTENANCE EASEMENT
10' PUBLIC TREE EASEMENT
70.88'
34.73'
N12°18'07"W

PUBLIC SWM, DRAINAGE, &
UTILITY EASEMENT

WETLAND # 1

887.22'
75' STREAM BUFFER
25' WETLAND BUFFER
N11°06'20"E
71.85'
N11°06'20"E
75.27'
N11°06'20"W

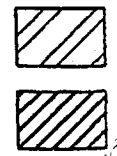
1102.39'
75' STREAM BUFFER
LOT 30
PRESERVATION
PARCEL 'F'
AREA THIS SHEET = 187,464 sq. ft.
OR 4.30 Acres
TOTAL AREA = 431,217 sq. ft.
OR 9.90 Acres
(TO BE PRIVATELY OWNED)
(NOT BUILDABLE)

50' PUBLIC DRAINAGE &
UTILITY EASEMENT

447.92'
N27°16'
MARRIOTSVII
(MINOR ARTERIAL)

1
EASEMENT
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
L=100.48'
L=167.23'
R=468.48'
N61°36'53"W
38.37'

F-97-144





Approved Septic System Plan
Howard County Health Department

Mark Ripken 7/27/00
Signature Date

SEPTIC ELEVATIONS

DWELLING	
INVERT ELEV. (OUT OF) HOUSE:	437.50
EXIST. ELEV. AT SEPTIC TANK:	440.00
INVERT ELEV. (INTO) SEPTIC TANK:	436.90
INVERT ELEV. (OUT OF) SEPTIC TANK:	436.60
EXIST. ELEV. AT DISTRIBUTION BOX:	437.33
INVERT ELEV. (INTO) DISTRIBUTION BOX:	435.70
INVERT ELEV. (OUT OF) DISTRIBUTION BOX:	435.60
EXIST. ELEV. AT TRENCH / INVERT ELEV. (INTO) TRENCH:	
TRENCH 1:	436.50 / 434.50
TRENCH 2:	437.00 / 435.00
TRENCH 3:	437.50 / 435.50

Total linear feet of trench required 240 feet
 Width of trench(es) 3 feet
 Depth of trench(es) 4 feet
 Depth of stone required below distribution pipe 2 feet

NO.
3
2
1
1