

8/28/96  
WFA

Tag ID-04-357272

# PERMIT

## SEWAGE DISPOSAL SYSTEM

### DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 56631 B

A 47507

DISTRICT 4th

DATE 5-17-96

DATE SYSTEM APPROVED 6/28/96

INSPECTOR (CW)

**HOWARD COUNTY HEALTH DEPARTMENT**

**BUREAU OF ENVIRONMENTAL HEALTH**

~~XXXXXXXX~~ 313-2640

**INDEXED**

Jack Ryan / Fogle's Septic Clean, Inc. IS PERMITTED TO INSTALL  ALTER

ADDRESS 6278 Amherst Avenue, Columbia, MD 21046 PHONE \_\_\_\_\_

SUBDIVISION Jack Ryan Property LOT 1 ROAD 410 Morgan Station Road

PROPERTY OWNER ~~Pamela Jekel~~ Rhonda Downey

ADDRESS \_\_\_\_\_ Fax 410-489-9795

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

280 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 373

\*Top seamed septic tank required.  
\*Contractor is to preschedule installation so that Health Department sanitarian may be on site at all times during trench excavation.

TRENCHES - Trench to be 3 feet wide. Inlet 2 feet below original grade. Bottom maximum depth 4 feet below original grade. Effective area begins at 4 feet below original grade. 1 1/2 feet of stone below distribution pipe.

LOCATION - Place the distribution box 240 feet from the left lot line and 15 feet off the front lot line. Run trenches along contour in both directions.

NOTES - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank.

ok/cw ok/188 5-20-96

PLANS APPROVED BY Glen Savage REVISED \_\_\_\_\_ DATE 03/06/96

COVER NO WORK UNTIL INSPECTED AND APPROVED

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM

NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS, 90° ELBOWS NOT ACCEPTABLE.

NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX TRENCHES) TO BE 100 FEET FROM WELL (UNLESS OTHERWISE SPECIFICALLY AUTHORIZED)

NOTE: IF DEEP TRENCH(ES) ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH(ES)

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS PERMIT VOID AFTER TWO YEARS  
AND RETURNED 9/11/96  
Serial # B00102196 sundick

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON. CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET. MANHOLE TO GRADE REQUIRED.

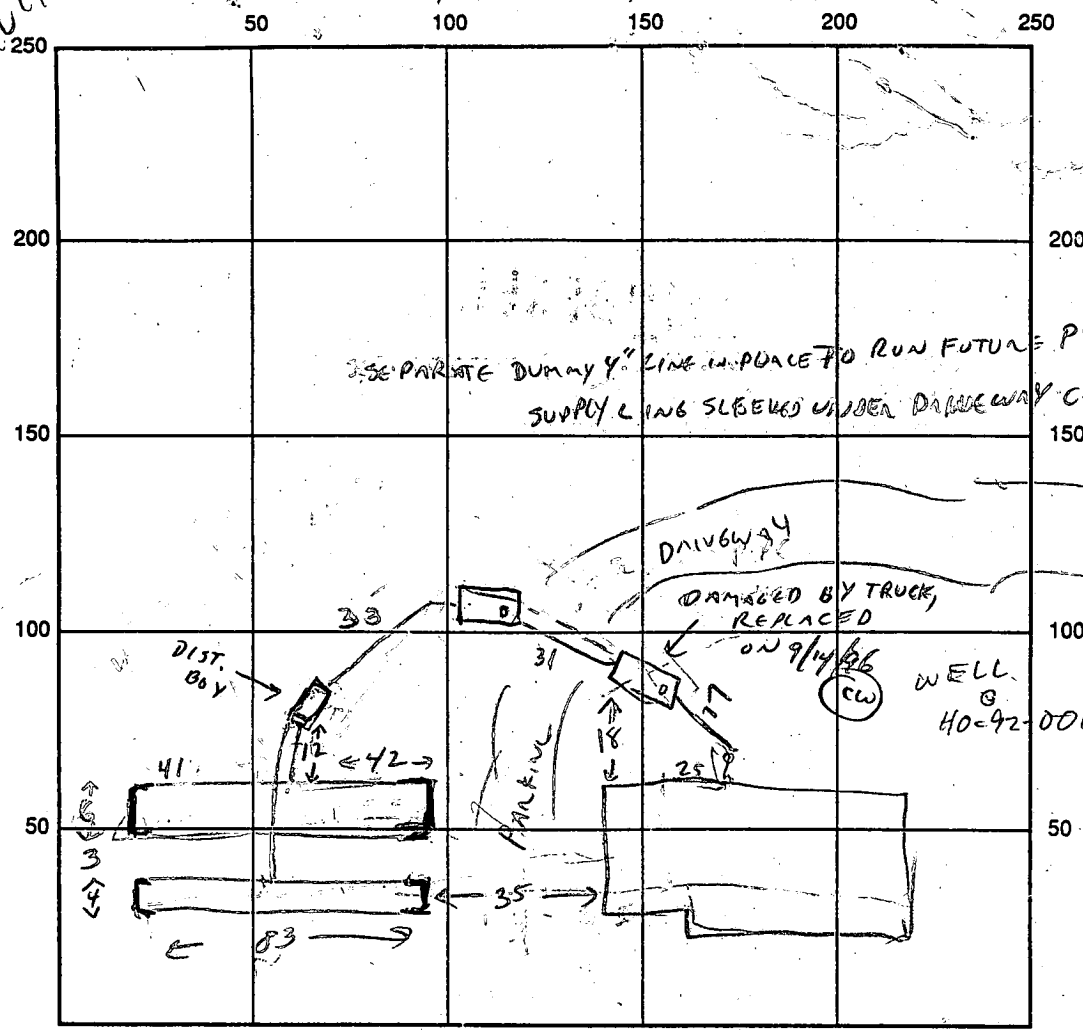
NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

**\*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**

47507

Lot 1 - JEKEL  
 410' MORGAN STATION RD (THE NORTH LOT)

TANK DAMAGED BY DUMP TRUCK



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL TWO - 1500 GAL TOP SEALED SECOND TASK TO SERVE AS FUTURE PUMP PIT  
 CLEANOUTS ✓

DISTRIBUTION BOX LEVEL ✓

DRAIN FIELD/TITLE DEPTH 3 FT. TRENCH WIDTH (A) 4' WIDE (B) 6' WIDE INLET DEPTH 1 FT.

EFFECTIVE GRAVEL DEPTH 1 1/2 FT. TOTAL LENGTH (A) 83' LONG (B) 83' LONG

NUMBER OF TRENCHES 2 (a) 83' ONE SIDEWALL/BOTTOM AREA 830 SQ. FT.

DRYWALL INSIDE DIAMETER      FT. EFFECTIVE DEPTH BELOW INLET      FT.

ABSORBENT AREA      SQ. FT.

REMARKS: 5/23/96 - SITE INSP W/ CONTRACTOR; HOUSE LOCATION LOOKS LOW, MAY NEED PUMPED SYSTEM  
SITE IS HEAVILY TREED; INFILTRATION DESIGN UNDER CONSIDERATION FOR EASE OF INSTALLATION IN FUTURE  
6/21/96 - SEPTIC TANK AND HOUSE SEWER LINE COMPLETE. CONTRACTOR TO REQUEST SEPTIC AREA BE STAKED  
8/28/96 GRAVITY SERVICE TRENCHES INSTALLED AT LOW END OF SEPTIC  
EMBAYMENT, TRENCH CONFIGURATION MODIFIED DUE TO DIFFICULT SITE CONDITIONS - TREES, SLOPE, ROCK,  
9/12/96 - SEPTIC TANK PARTIALLY COLLAPSED - TRUCK DAMAGED. 9/14/96 COMPLETE TANK REPAIR

DATE SYSTEM APPROVED 8/28/96 WP FOK 3' B.G. MK INSPECTOR CW

410 Morgan Station Rd.

Barry

Rhonda Downey

410-489-9799

Would like to do additon,  
says ~~that~~ septic locations  
on this drawing not correct  
would like to do site insp.  
prior to bp process to  
avoid hassks. C. Williams  
drawing pretty good may  
be able to permit addition  
w/o site insp. (GAC)

# SOUTH BRANCH, PATAPSCO RIVER

1150

TOP OF EXISTING RIVER BANK  
LOCATED IN FIELD

TOP OF EXISTING RIVER BANK  
LOCATED IN FIELD

JEEP TRAIL

10.5' WIDE MAC DRIVE

JSD 468  
REBAR AND CAP  
FOUND, HELD

T5A 227  
REBAR AND CAP  
FOUND, HELD

TELEPHONE  
JUNCTION BOX

ELECTRIC POWER  
TRANSFORMER

MAC DRIVE  
(APPEARS TO  
EXTEND OVER  
BOUNDARY)

1.5 INCH DIA. IRON BAR FOUND.  
ORIGINAL TRACT CORNER  
DESCRIBED IN L. 882, F. 573  
AND L. 819 F. 538

T5A 224  
REBAR AND CAP  
FOUND, HELD

WOOD SHED

WOOD SHED

1.0' DIAMETER  
CAST IRON LID  
SEPTIC ACCESS

MACADAM  
DRIVE

EXISTING 2  
STORY FRAME  
DWELLING

EXISTING WELL  
\*HO-92-00-19

3.0' DIAMET  
CONCRETE  
SEPTIC ACC

REB  
FC

REB,  
FOI

JSD 468 CAP AND RE  
0.29' FROM IRON BAR

5 72

N 29°36'32" E 267.66'

N 52°35'42" E 175.87'

N 15°16'03" W 98.19'

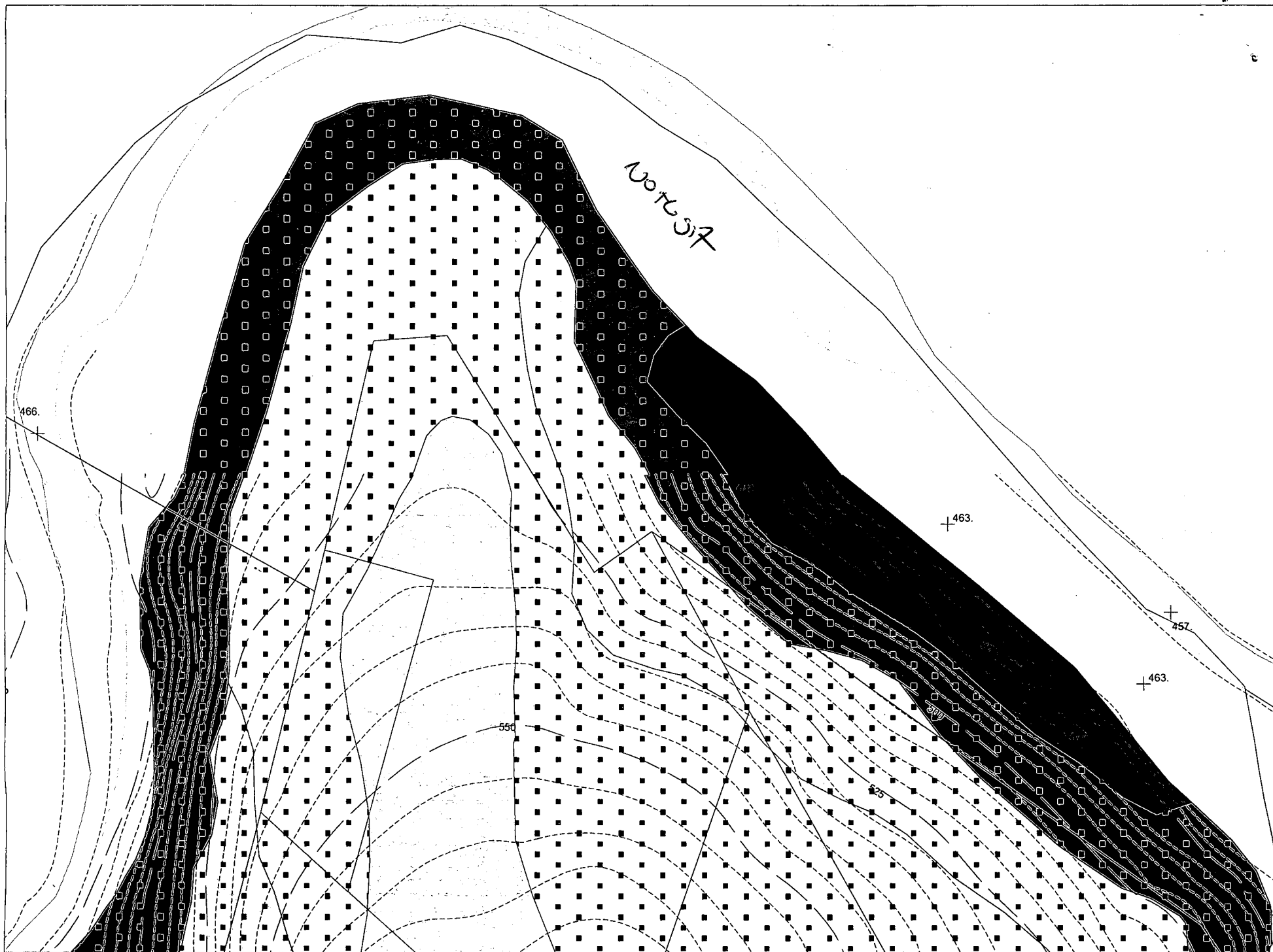
N 74°49'03" W

169.46'

369.29'

N 15°14'30" E

LOT 2



1 inch equals 150 feet

Approved Septic System Plan  
 Howard County Health Department

3/8/96  
 Date

*Pam Jeckel*  
 Signature

Lot 1

107'  
 Ex. 12' Driveway

Septic Area  
 10,000 s.f.

Inv at Dist Box: 19.5

Inv at house: 22.0  
 Inv in tank: 21.5  
 Inv out of tank: 21.0

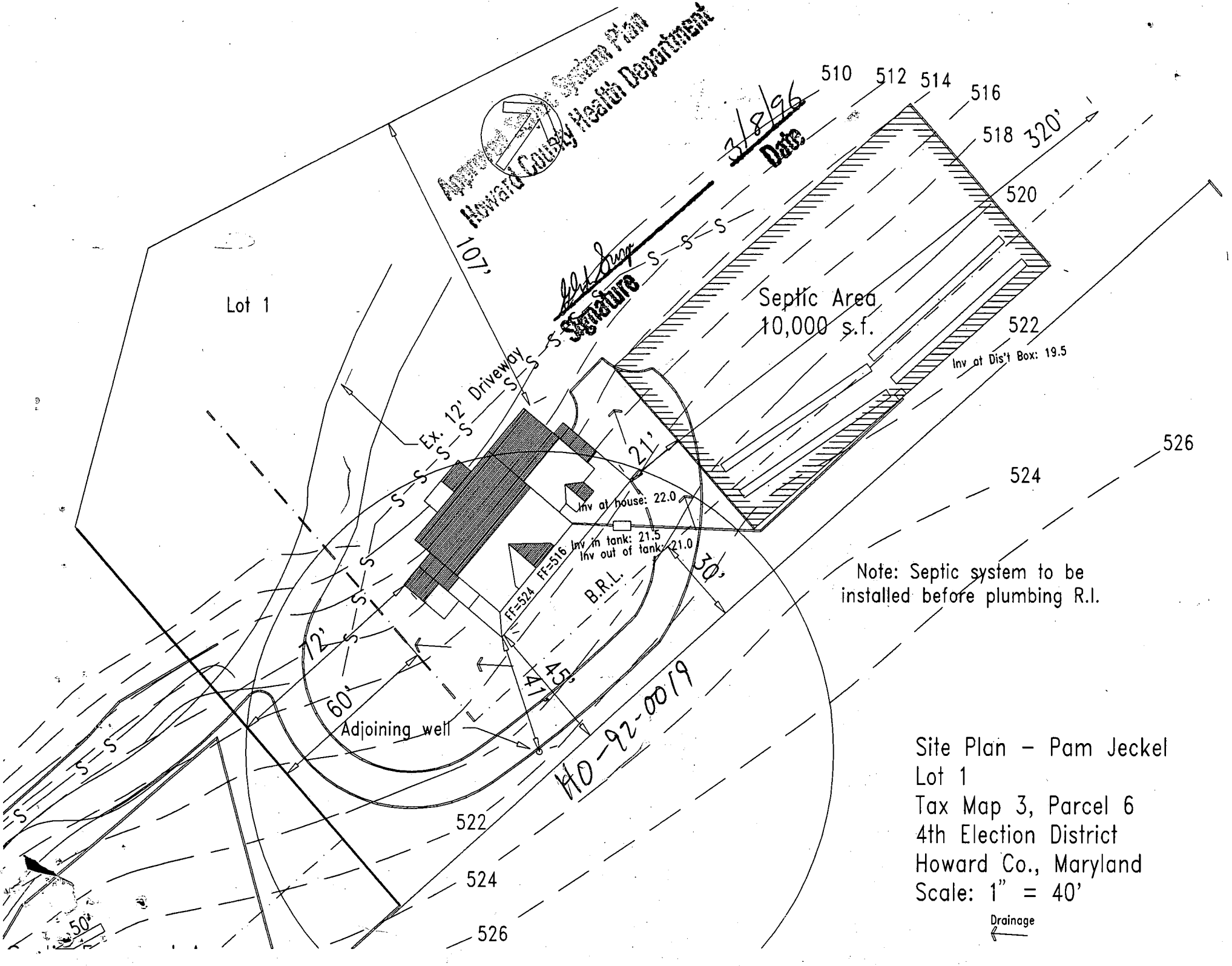
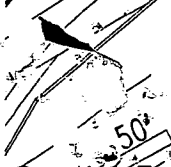
Note: Septic system to be installed before plumbing R.I.

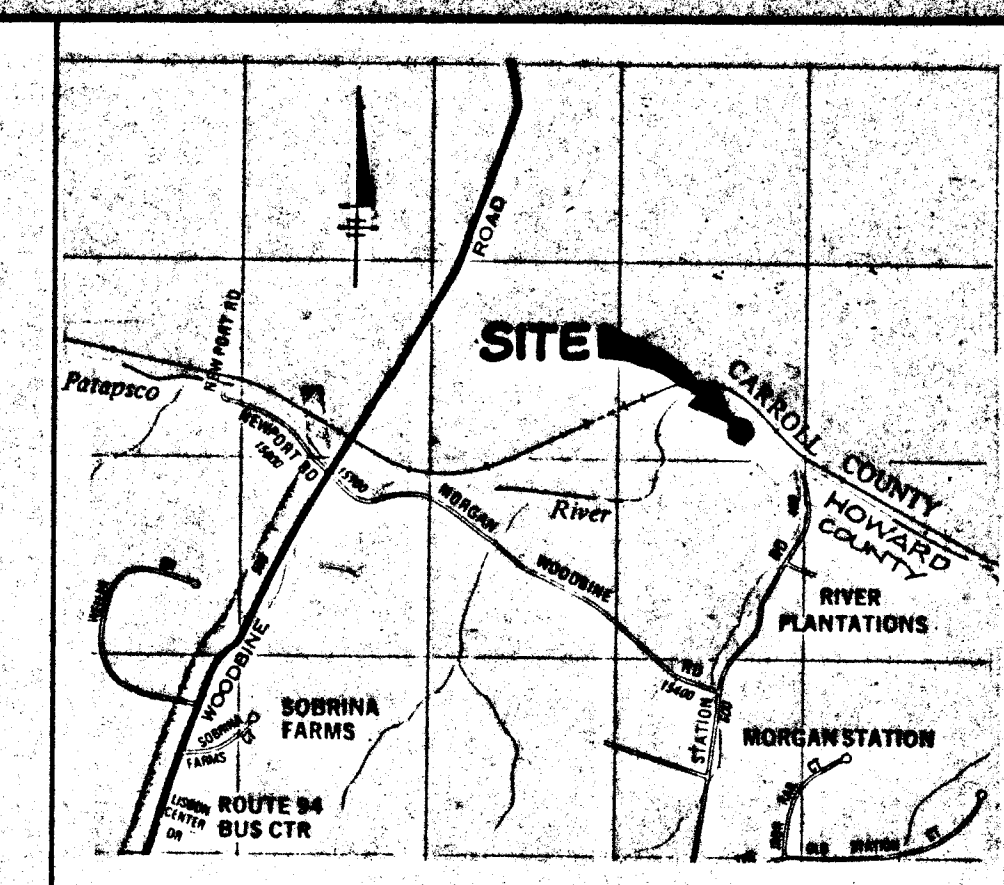
Adjoining well

HO-92-0019

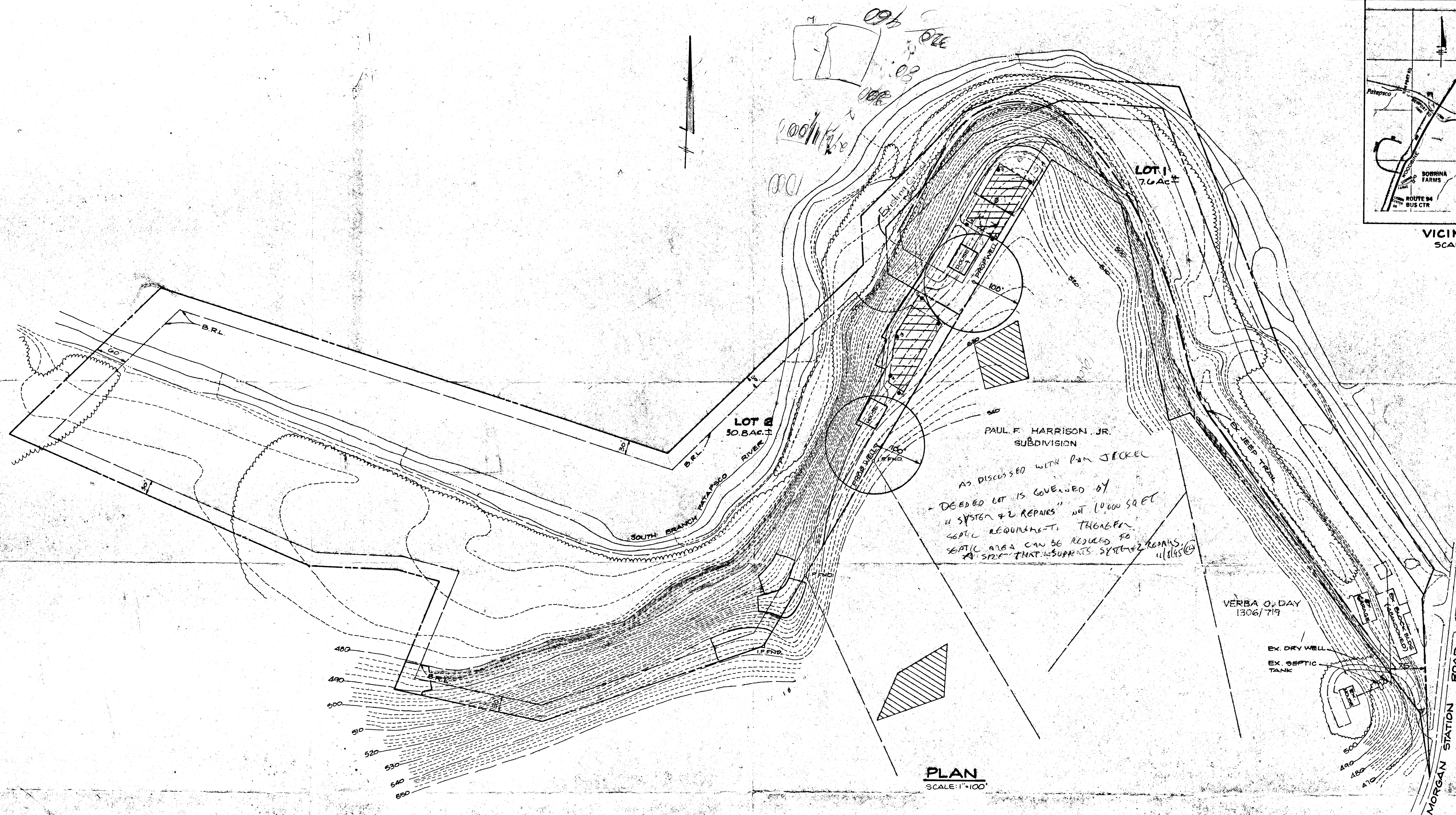
Site Plan - Pam Jeckel  
 Lot 1  
 Tax Map 3, Parcel 6  
 4th Election District  
 Howard Co., Maryland  
 Scale: 1" = 40'

Drainage





VICINITY MAP  
SCALE: 1"=2000'



AS DISCUSSED WITH PAUL JECKEL  
- DEEDED LOT IS COVERED BY  
"SYSTEM #2 REPAIRS" NOT 10,000 SQ FT  
SEPTIC REQUIREMENT. THEREFORE  
SEPTIC AREA CAN BE REDUCED TO  
A SIZE THAT SUPPORTS SYSTEM #2 REPAIRS

PLAN  
SCALE: 1"=100'

WELLS INSTALLED:  
LOT 1 - WELL No. HO 920019  
LOT 2 - WELL No. HO 920018

THE LOT CONFIGURATION SHOWN WILL BE CREATED  
BY ADJOINER TRANSFER.

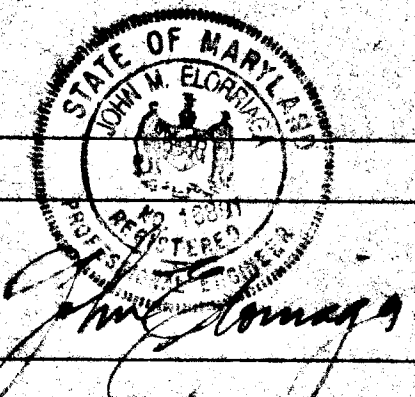
**NOTES:**  
● INDICATES LOCATION OF PERCOLATION TEST HOLE.  
▨ 25% SLOPE OR GREATER  
▨ THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF 10,000 SQ. FT. +/- AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT PLAT SHALL NOT BE NECESSARY.  
SUBJECT PROPERTY ZONED "R" PER 8/2/1985 COMPREHENSIVE ZONING PLAN.  
ALL EX. WELL AND SEPTICS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN

Proposed Sewage Easement  
Revision For Lot 1  
OCTOBER 23, 1995

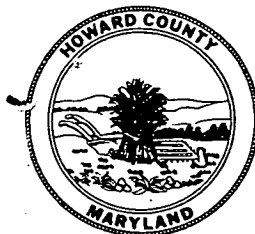
APPROVED FOR PRIVATE WATER AND PRIVATE  
SEWER SYSTEMS HOWARD COUNTY HEALTH  
DEPARTMENT.  
*Jane M. ...*  
COUNTY HEALTH OFFICER

NO	DATE	APPROVED WELLS NOTE + ADJOINER TRANSFER NOTE ADDED/REVISED V.O. DAY PROP. LINE	REVISION
3-9-94			

**TRACY, SCHULTE & ASSOCIATES INC.**  
planning • architecture • engineering  
8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105



OWNER/DEVELOPER <b>JACK RYAN</b> 6278 AMHERST AVE. COLUMBIA, MD. 21046		PROJECT <b>JACK RYAN PROPERTY</b>	
LOCATION TAX MAP No. 5, PARCELS 6, 18 4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND			
TITLE <b>HEALTH DEPARTMENT PERCOLATION CERTIFICATION PLAN</b>			
DATE	NOV. 11, 1995	PROJECT NO.	423
DES. D.A.M.	DRN. J.B.	SCALE: 1"=100'	DRAWING 1 OF 1



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## HOWARD COUNTY HEALTH DEPARTMENT

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*Joyce M. Boyd, M.D., County Health Officer*

May 17, 1996

Mr. Richard Klein  
CED Services  
P.O. Box 206  
Freeland, MD 21053

Dear Mr. Klein:

This is in response to your letter of May 16, 1996 about septic system plan approval for a two-lot subdivision on Morgan Station Road. You identify the property as "South River Springs." Our files identify it as the "Jack Ryan Property."

One question you asked pertained to the proximity of the sewage disposal easement on lot 2 to steep slopes. As discussed in the office on March 15, concern about steep slopes was not raised by the inspecting Sanitarian in his percolation test field report, nor was the minimal area of steep slope noticed by either him or me during follow-up plan review. Either way, the extent of apparent conflict with the letter of the regulation was so minor that we found no reason to take issue.

Your second question was in regards to the proposed driveway incursion upon the platted sewage disposal easement. In Howard County, normal practice is to attempt to minimize any driveway to septic conflicts, but not to prohibit necessary incursions so long as plans show no reason to anticipate damage to the septic system. In this particular case, consideration was given to routing the driveway around the septic area; but in the end, a controlled plan for crossing the easement was accepted as the most reasonable option.

Regarding your third question, we discussed that Howard County policy is to request that systems be installed which are generally larger than the minimum standards specified by State of Maryland regulation. It would seem appropriate to match the State requirement for "initial draifield and two recovery areas", to systems sized to State standards. By that measure, the area on this lot would likely provide for at least three or four recovery areas.

All the same, the Howard County specifications for Lot 2, the Ryan lot, call for 240 linear feet of disposal trench. By my measure, there is still ample room for an initial system of this size, plus two recovery systems.

Mr. Richard Klein

Page two

May 17, 1996

On Lot 1, the Jekel lot, which is the one I imagine you meant to question, the Howard County specification is for 373 linear feet of disposal trench. By mutual agreement, and strictly for the applicant's convenience, this system was designed to be one and one half times larger than the system we ordinarily would have specified. So, as long as there is room to duplicate this system once, the "initial and two recovery" criteria is still satisfied, even with respect to Howard County standards.

I trust this response adequately addresses the concerns raised in your letter. If there are any remaining issues, please feel free to contact me at 313-2640.

Very truly yours,

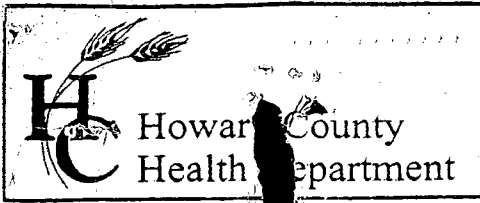


Craig Williams, Program Director  
Water and Sewerage Program

CW:

cc: File

Faxed



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  
June 6, 2003

MEMORANDUM

TO: Rhonda Downey  
410 Morgan Station Road  
Woodbine, MD 21797

FROM: Mark Rifkin *MR*  
Well and Septic Program

RE: 410 Morgan Station Road  
Jack Ryan Property, Lot 1

In response to your request for information regarding the Health Department's review of the existing house location, septic easement location and possibilities for a pool at the referenced property, this office offers the following:

Percolation test and lot approval documents show the lots to be dominated by extremely steep slopes. Due to this and the drilled well, the approved sewage easement has little room for adjustment.

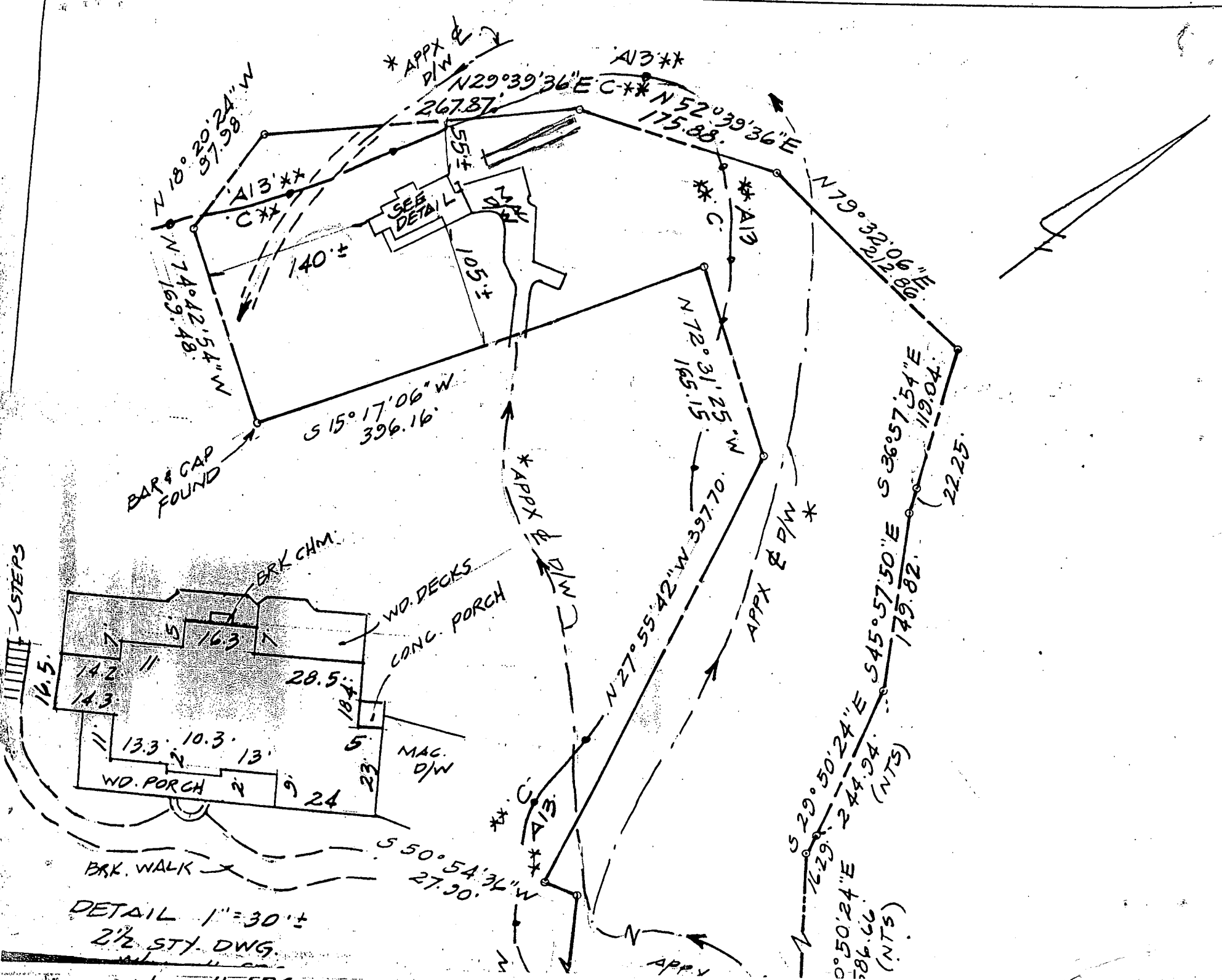
This office approved a site plan on March 8, 1996 to build a house at the property which would provide adequate separation to the sewage easement and suitable elevation to plumb to the sewage easement by gravity. This plan shows a proposed house 21' from the septic easement, 72' from the southern (169.48') lot line and 45' from the western (267.87') lot line.

The septic system inspection record indicates site difficulties prevented installation of the septic system according to the referenced site plan. It is not clear whether this agency was aware of any adjustment in the house location at that time.

A subsequent location drawing prepared by J.S. Dallas Surveyors in December, 2000 shows a house constructed on the property, but at a location which is 140' from the southern (169.48') lot line and 105' from the western (267.87') lot line. This would appear to place the house downhill and northwest of the approved house location shown on the approved site plan of March 8, 1996, and downhill and southwest of the approved sewage easement.

Based on this review, the sewage easement has been minimally impacted by the adjusted house location, but this conclusion is subject to confirmation by a licensed surveyor. Therefore, based on Health Department requirements, adequate opportunity appears to exist to propose a pool anywhere to the south or west of the existing house.

MR  
File



SH SCALED FLOOD ZONE  
PER 2A0044 0003 B.

D/W'S APPEAR  
CROSS P'S.

The plat is of benefit to a consumer only insofar as it is required by a lender or a title insurance company or its agent in connection with contemplated transfer financing or re-financing. The plat is not to be relied upon for the establishment or location of fences, garages, buildings, or other existing or future improvements. The plat does not provide for the accurate identification of property boundary lines, but such identification may not be required for the transfer of title or securing financing or refinancing.

I have examined Flood Insurance Rate Map Panel Number 2A0044 0003 B for the subject property and it appears to lie within zone A13 FC per \*\* said map. Dimensions shown to apparent lot line are + 20'.  
Date of field work: 12/6 & 7, 2000

DEED REF: 4061-0092 (LOT 1)  
4TH EL. DIST. HD. CO., MD

LOCATION DRAWING



# 410 MORGAN STATION ROAD  
**J.S. DALLAS, INC.**  
Surveying & Engineering  
13523 Long Green Pike  
Baldwin, MD. 21013  
(410) 817-4600

Date: 12-10-00  
Scale: 1"=100'  
Job Number: MISC-928  
Drawn By: JSD  
Checked By: JSD



# APPLICATION

## PERCOLATION TESTING

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

PREVIEW OK -  
 PROPOSED ADJUSTMENT  
 TO RECORDED EASEMENT (CW)

A 50945  
 P \_\_\_\_\_  
 DISTRICT 4th  
 DATE 10-25-95

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 JACK RYAN Pamela Jekel  
 21046

ADDRESS 6278 AMHERST AVE, COLUMBIA, MD PHONE 301-596-3322

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

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

PROPERTY LOCATION: \_\_\_\_\_

(REVISION TO EXISTING PERC)  
 A-47507-Lot 1

SUBDIVISION JACK RYAN PROPERTY LOT NO. 1

ROAD AND DESCRIPTION WEST OF MORGAN STATION ROAD & SOUTH OF THE SOUTH BRANCH OF THE PATAPSCO RIVER

TAX MAP 3 PARCEL # 6

BLDG. PERMIT SIGNED  
 AND RETURNED 3-6-96

SIZE OF LOT 7.6 ± Ac. TYPE BLDG. SINGLE FAMILY Serial # 63646  
 4 - PERMS  
 (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.

Peter Dare FOR JACK RYAN  
 PETER DARE (SIGNATURE OF APPLICANT)

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

DISAPPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

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

REASONS FOR REJECTION OR HOLDING RELOCATION UNSUCCESSFUL - EXCESS ROCK (CW)

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



# APPLICATION

PERCOLATION TESTING

A 47507

P \_\_\_\_\_

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

DISTRICT 4th

DATE 9/25/91

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 Jack Ryan

ADDRESS 6278 Amherst Ave. Columbia, MD 21046 PHONE \_\_\_\_\_

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

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

PROPERTY LOCATION:

SUBDIVISION Jack Ryan Property LOT NO. 1

ROAD AND DESCRIPTION West of Morgan Station Road & South of the South Branch of the Patapsco River

TAX MAP 3 PARCEL # 6

SIZE OF LOT \_\_\_\_\_ TYPE BLDG. Single Family Dwelling  
(SINGLE FAMILY DWELLING OR COMMERCIAL)

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

(SIGNATURE OF APPLICANT)

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

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

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

REASONS FOR REJECTION OR HOLDING 10/4/91 FOR for SV FILE 10/22 TYPE A Letter prepared

10/22 certified holes; house site; water well site.  
10/4/91 A.M. 5:10:00's No holes dug. Rescheduled for P.M. C.B.R.  
(Mr. Ryan + Digger sheets) C.B.R.

**THIS IS NOT A PERMIT**

Recommend - Water Well as SHOWN BEFORE APPROVAL. C.B.R.

*Handwritten notes:*  
1/10/91  
1/10/91  
P.M. (6:00 AM)  
2/27/91  
C.B.R.

HD-216

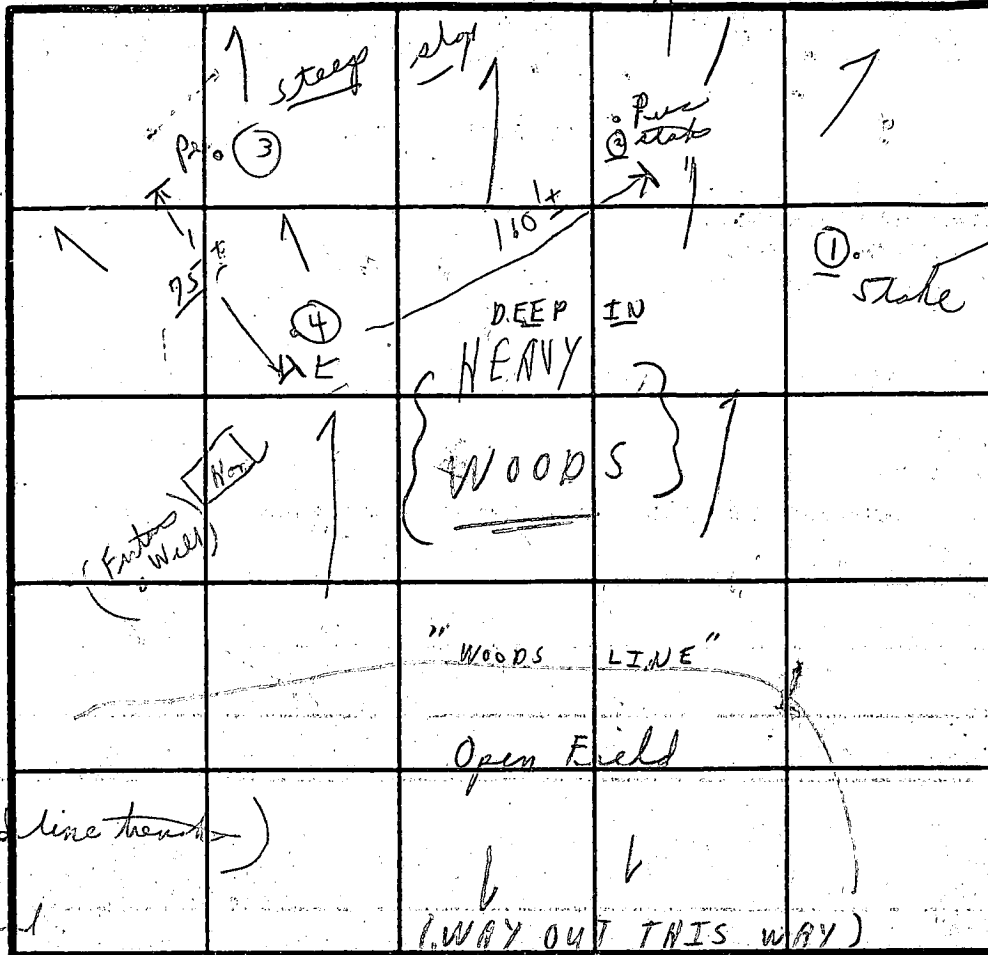
Closest to land Co.

A-47507

LOT #1  
HOLE #1

SOIL PROFILE

to 2 1/2'
CLAY + Topsoil
2 1/2' to 6'
LOAM + Weathered shale
6' to 11 1/8"
BOTTOM



HOLE #3

0' to 1'
CLAY
1' to 6'
Loam + Weathered shale
6' - 3" ±
Weathered shale
10-10"
BOTTOM

Shallow only (sand line trench)  
with 2 1/2' maximum depth  
3' of sand + 1/2' of sand  
below

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

MORGAN STATION ROAD

HOLE #2

0' to 1'
CLAY + Topsoil
1' to 6'
Loams + Weathered shale
6' down Weathered shale to shale
11 1/2'
BOTTOM

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
10/4/91	①	3 1/2'	12:21	12:22	12:22	12:23	1m
		11'-8"	0'-2 1/2" 2 1/2' - 6'	Clay 1/5 Loam 60%	weath. 42%	shale	
	②	4'	12:34	12:35	12:35	12:36	1m
		11 1/2'	0'-1 1/2" 1' - 6'	Clay + Topsoil Loam 60%	weath. 40%	shale	
	③	4'	12:58	1:00	1:00	1:06	6m
		10' 10" H.A.S.	0'-1' 1' - 6'	Topsoil + clay Loam	weath. shale		
	④	3'-10"	1:16	1:26	1:26	1:56	30m
		11'	0'-4 1/2" 4' - 11"	Clay Loam 90%	weath. 10%	shale	

HOLE #4

0' to 3'-10"
CLAY + Loam + 90% ± 10% ± Weathered shale
BOTTOM

REMARKS

10/4/91 (ONLY \* SAND-LINE TRENCHES ONLY \*)  
Deep in Woods, Tests near post stakes

TYPE OF SOIL

Hold for certified holes house & water wells etc

TESTED BY

C. B. [Signature]  
(Test holes dug, whets  
sanitary in process)

ALSO PRESENT

Mr. Ryan  
& [Signature]  
Roy [Signature]  
L. High Ridge Excavator  
430-12767



C1 1014

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 COLUMNS 3-6 ON ALL CARDS)

FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE

COUNTY NUMBER

DATE RECEIVED

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER: JACKEL, STREET OR RFD: 410 MARLBOROUGH STATION RD, TOWN: WOODBINE, MD. 21797, SUBDIVISION: JACK RYAN PROP., SECTION: #1 BARING, LOT: 1

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 (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Includes handwritten entries: DRAINAGE SOIL 0-15', W/LARGE SILTIER STONES, HARD GREEN SILTIER ROCK 15-200', 80'.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N), TYPE OF GROUTING MATERIAL (Cement CM, Bentonite Clay BC), NO. OF BAGS 12, NO. OF POUNDS 600, GALLONS OF WATER 312, DEPTH OF GROUT SEAL from 0 to 200 ft.

CASING RECORD

Case types insert appropriate code below: ST (Steel), CO (Concrete), PL (Plastic), OT (Other). MAIN CASING TYPE: OT, Nominal diameter top (main) casing: 0, Total depth of main casing: 0.

OTHER CASING (if used)

Table for other casing with columns: diameter inch, depth (feet) from, to.

SCREEN RECORD

screen type or open hole (ST, BR, HO, PL, OT) with instructions to insert appropriate code below.

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED: YES (Y), NO (N)

CIRCLE APPROPRIATE LETTER: A (Well abandoned and sealed), 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...

TYPE: MWD/MSD/MGD, DRILLERS LIC. NO.: 355

DRILLERS SIGNATURE: [Signature]

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.: JWD 329, [Signature]

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

C2 DEPTH (nearest ft.)

Table for depth measurement with columns 1-2, 8-9, 11, 15, 17, 21, 23-24, 26, 30, 32, 36, 38-39, 41, 45, 47, 51. Includes slot size 1, 2, 3 and diameter of screen.

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.), W Q (74-75-76)

TELESCOPE CASING, LOG INDICATOR, OTHER DATA

C3

PUMPING TEST

HOURS PUMPED (nearest hour) 8, PUMPING RATE (gal. per min.) 11, METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL (distance from land surface) BEFORE PUMPING, WHEN PUMPING, TYPE OF PUMP USED (for test): A (air), P (piston), T (turbine), C (centrifugal), R (rotary), O (other), J (jet), S (submersible).

PUMP INSTALLED

DRILLER WILL INSTALL PUMP (YES/NO), IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon), PUMP HORSE POWER, PUMP COLUMN LENGTH (nearest ft.), CASING HEIGHT (circle appropriate box and enter casing height) above/below LAND SURFACE (nearest foot).

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)

11:00

C 1 1017

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 COLUMNS 3-6 ON ALL CARDS)

FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE

COUNTY NUMBER

DATE RECEIVED

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER: JECKEL, Pam; STREET OR RFD: 410 MORGAN STATION DR.; TOWN: WOODBINE, MD.; SUBDIVISION: JACK RYAN PROP.; SECTION: 4 BORING; LOT: 1

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 (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Includes handwritten entries: Orange Clay 0-15', Soil w/ permeable sand rocks 15'-200', Hard gray shale 15'-200'.

GROUTING RECORD yes no WELL HAS BEEN GROUTED (Circle Appropriate Box)

TYPE OF GROUTING MATERIAL (Circle one) CEMENT [CM] BENTONITE CLAY [BC] NO. OF BAGS NO. OF POUNDS GALLONS OF WATER DEPTH OF GROUT SEAL (to nearest foot) from 0 to 200 ft.

CASING RECORD casing types insert appropriate code below: [ST] STEEL, [CO] CONCRETE, [PL] PLASTIC, [OT] OTHER

MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot)

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

SCREEN RECORD screen type or open hole insert appropriate code below: [ST] STEEL, [BR] BRASS BRONZE, [PL] PLASTIC, [HO] OPEN HOLE, [OT] OTHER

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED: YES [Y] NO [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...

TYPE: MWD/MSD/MGD DRILLERS LIC. NO. 355

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. JWD 329 Neil Barlow

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

DEPTH (nearest ft.) 1' 2' 8' 11' 15' 17' 21' 23' 24' 26' 30' 32' 36' 38' 39' 41' 45' 47' 51'

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 74 75-76

TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3 PUMPING TEST

HOURS PUMPED (nearest hour) PUMPING RATE (gal. per min.) METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING WHEN PUMPING TYPE OF PUMP USED (for test) A air, P piston, T turbine, C centrifugal, R rotary, O other, J jet, S submersible

PUMP INSTALLED DRILLER WILL INSTALL PUMP (CIRCLE) (YES NO)

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE (nearest foot)

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)

C1 1016

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 COLUMNS 3-6 ON ALL CARDS)

FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE

COUNTY NUMBER

DATE RECEIVED

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER: JECKEL, last name; 410 MODERN STATION DR., first name; TOWN: WOODBINE, MD.; SUBDIVISION: JACK RYAN PROP.; SECTION: 3 BORING; LOT: 1

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 (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Handwritten entries: Orange soil w/ large sand rocks, Hand break sand rock.

GROUTING RECORD (yes/no) WELL HAS BEEN GROUTED (Circle Appropriate Box)

TYPE OF GROUTING MATERIAL (Circle one) CEMENT [CM] BENTONITE CLAY [BC] NO. OF BAGS NO. OF POUNDS GALLONS OF WATER DEPTH OF GROUT SEAL

CASING RECORD (casing types insert appropriate code below) [ST] STEEL [CO] CONCRETE [PL] PLASTIC [OT] OTHER

MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot)

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

SCREEN RECORD (screen type or open hole insert appropriate code below) [ST] STEEL [BR] BRASS BRONZE [PL] PLASTIC [HO] OPEN HOLE [OT] 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...

TYPE: MWD/MSD/MGD DRILLERS LIC. NO. 355

DRILLERS SIGNATURE (Must match signature on application)

LIC. NO. JWD 329

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

Table with columns: DEPTH (nearest ft.), 1-2, 3-4, 5-6, 7-8, 9-10, 11-12, 13-14, 15-16, 17-18, 19-20, 21-22, 23-24, 25-26, 27-28, 29-30, 31-32, 33-34, 35-36, 37-38, 39-40, 41-42, 43-44, 45-46, 47-48, 49-50, 51-52

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

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.O.

TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

PUMPING TEST HOURS PUMPED (nearest hour)

PUMPING RATE (gal. per min.)

METHOD USED TO MEASURE PUMPING RATE

WATER LEVEL (distance from land surface)

BEFORE PUMPING

WHEN PUMPING

TYPE OF PUMP USED (for test)

[A] air [P] piston [T] turbine [C] centrifugal [R] rotary [O] other (describe below)

[J] jet [S] submersible

PUMP INSTALLED DRILLER WILL INSTALL PUMP (CIRCLE) (YES) (NO)

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29

CAPACITY GALLONS PER MINUTE (to nearest gallon)

PUMP HORSE POWER

PUMP COLUMN LENGTH (nearest ft.)

CASING HEIGHT (circle appropriate box and enter casing height)

[+] above LAND SURFACE [ ] (nearest foot)

[-] below

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)

DATE: 11-11-00

# FILE INQUIRY FORM

Property Address: \_\_\_\_\_

Home owners need to identify where the distribution box is, so that on a plan we can see where it's at. For bob, either an engineered signature or a finding D-box & ten drawing on trenches per as suit is needed before to Bldg. Permit Signature for garage. PAY \$22/05