

8/17/91
AM - Sealy
8/15/91

PERMIT

46938

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

03-281698

P 46938
A REPAIR

DISTRICT _____

DATE 03/26/91

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
461-9933

INDEXED

DATE SYSTEM APPROVED 8/15/91

INSPECTOR M. Litko

O.F.K Construction Company IS PERMITTED TO INSTALL _____ ALTER

ADDRESS 4647 Manor Lane, Ellicott City, Maryland 21043 PHONE 465-6878

SUBDIVISION _____ LOT _____ ROAD 11489 Frederick Road

PROPERTY OWNER Gayle Kelley

ADDRESS 11489 Frederick Road, Ellicott City, 21043

SEPTIC TANK CAPACITY _____ GALLONS

NUMBER OF BEDROOMS 3

_____ SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED See Instruction below

REPAIR - TO REPLACE SEPTIC TANK. CALL FOR INSPECTION WHEN GROUND IS OPENED SO SANITARIAN CAN RECOMMEND REPAIR.

Recommended situating a water tight septic tank near Hole #1 and as far from (50ft minimum) existing well permit as possible. (Abandon & fill existing septic tank.) Install as much of 100 linear feet of 2ft wide trench as possible in area on hillside around Hole #5 & Hole #4. Trench should be 5 ft deep, with 3 ft of fill stone below drain pipe. RL/cw

PLANS APPROVED BY Craig Williams cm DATE 03/26/91

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

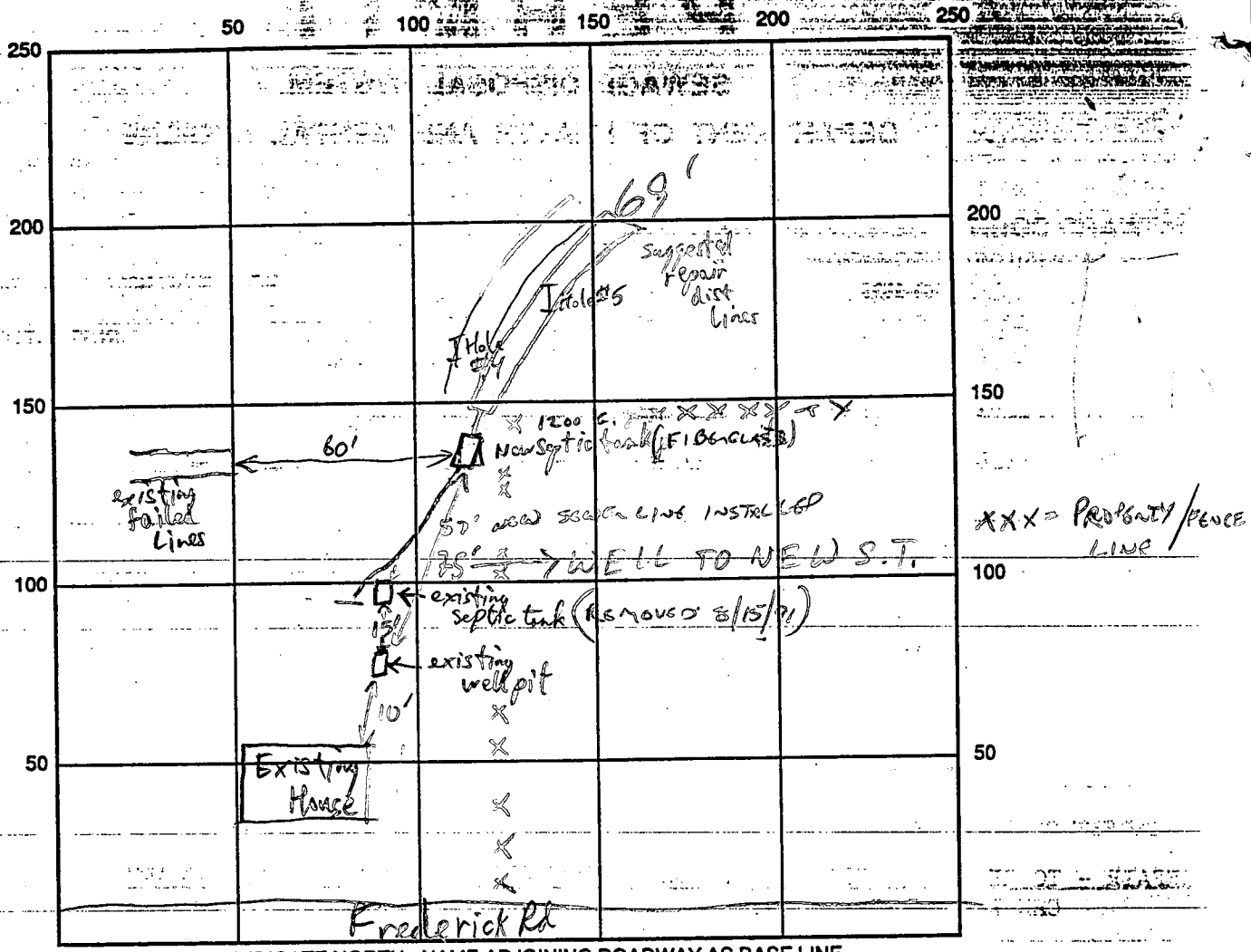
PERMIT VOID AFTER TWO YEARS

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 8 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

46938



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL 1250 GALLON FIBERGLASS CLEANOUTS _____

DISTRIBUTION BOX LEVEL _____

DRAIN FIELD/TITLE DEPTH 5 FT. TRENCH WIDTH 2 FT. INLET DEPTH 2 FT.

EFFECTIVE GRAVEL DEPTH 3 FT. TOTAL LENGTH 69 FT.

NUMBER OF TRENCHES 1 ONE SIDEWALL/BOTTOM AREA 207 SQ. FT.

DRYWALL INSIDE DIAMETER _____ FT. EFFECTIVE DEPTH BELOW INLET _____ FT.

ABSORBENT AREA 207 SQ. FT.

REMARKS: OK TO EXP. THROUGH TO APPROX. 60' AND GRAB SOIL AND CALL FOR FINAL.

WASHING MACHINE TUB TO BE EACH REPLACE MOUNT. SEPTIC SYSTEM, OK TO

REPLUMB TO ORIGINAL DISPOSAL AREA AND ADD ADDITIONAL DISPOSAL CAPACITY 8/15/91 (CW)

8/15/91 #2 OK TO COVER ALL

DATE SYSTEM APPROVED 8/15/91 INSPECTOR M. Rifkin

OWNER
 Parcel 45/205
 Richard B. Talkin, Jr.
 9175 Guilford Rd.
 Columbia, Md.
DEVELOPER

The requirements of
 Maryland, 1988 replace
 the markings of this plat and
 D. Wayne Weller (MD No. 10685)
 Richard B. Talkin, Trustee

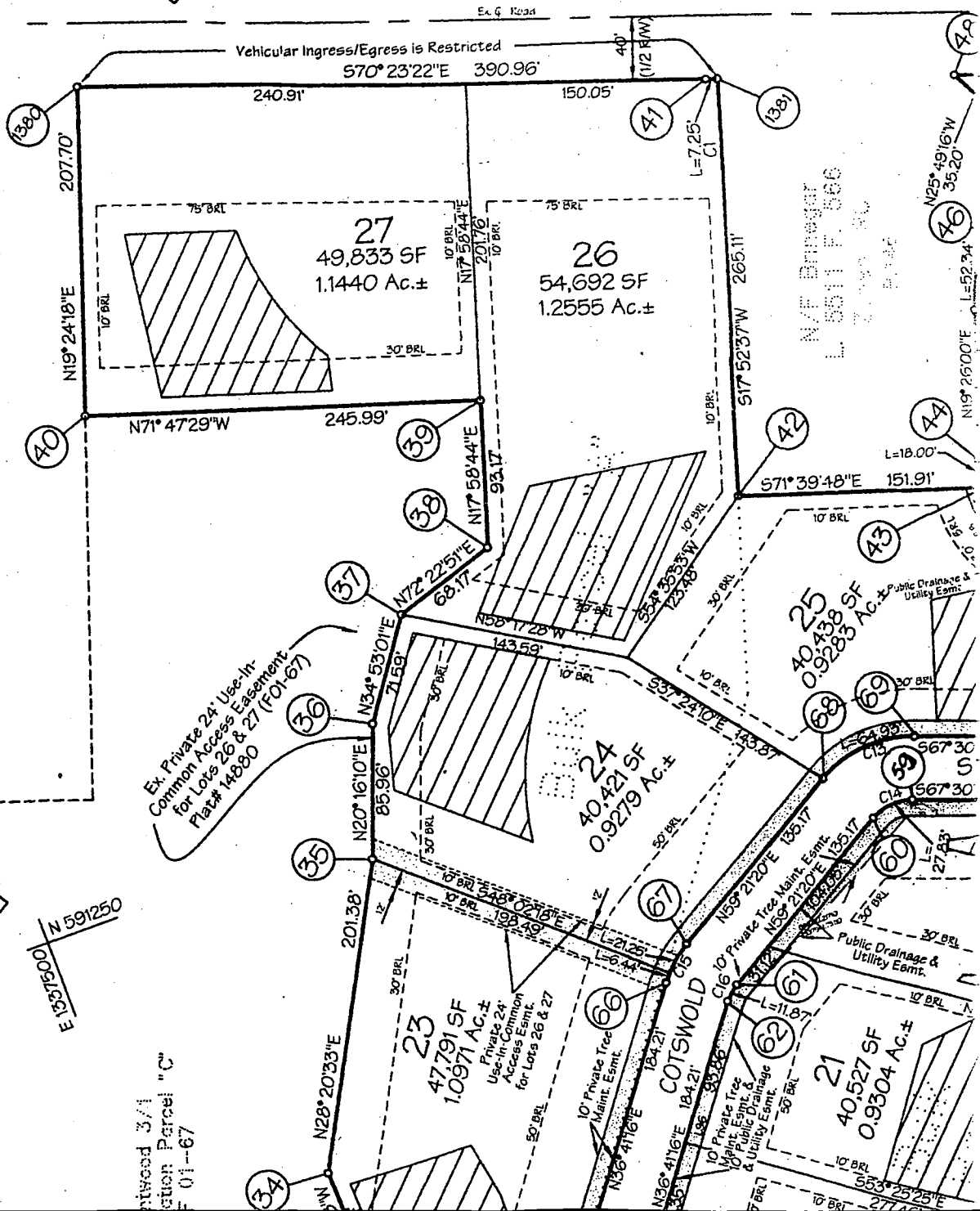
LEGEND
 • Iron Pipe/Rebar Found
 ⊙ Stone/Concrete Monument Found
 ⊠ Rebar w/ Identification Cap Set
 □ Concrete Monument Set

Brantwood 3/2
 F-01-73

FREDERIC
 MH
 (EX. VARIABLE)

NOW OR FORMERLY
GALE P. KELLY
 LIBER 1040/FOLIO 561
 ZONED: RC
 P.144

L95	53.95	172	336° 31'12"E
L96	154.46	L95	N38° 57'49"W
L97	152.89	L96	N38° 57'44"W
L98	195.52	L97	N51° 02'16"E
L99	23.95	L98	N68° 31'39"W
L100	7.00	L99	N61° 40'47"E
L101	7.07	L100	S36° 41'16"W
L102	8.84	L101	N29° 58'33"E
L103	8.84	L102	S77° 12'03"E
L104	7.07	L103	S77° 12'03"E
	7.00	L104	S12° 47'57"W
	24.00		N57° 47'57"E
			S77° 12'03"E
			N12° 47'57"E



Brantwood 3/1
 Section Parcel "C"
 F-01-67

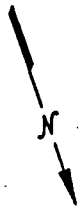
E 53° 31' 00"

Ex. Private 24' Use-In-Common Access Easement
 Plat# 14880
 F-01-67

COTSWOLD
 N36° 41'16"E 184.21'
 N35° 41'16"E 184.21'
 N59° 21'20"E 136.17'
 N59° 21'20"E 135.17'
 N59° 21'20"E 135.17'

Public Drainage & Utility Easmt.
 Public Drainage & Utility Easmt.
 Public Drainage & Utility Easmt.

90579



Part
of
Lot 6
(Also being Lots
1 thru 3 on
Plat No. 9961)

Location Drawing

Scale: 1" = 100'

This 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 refinancing. This plat is not to be relied upon for the establishment or location of fences, garages, buildings, dwellings or other existing or future improvements nor does this plat purport to reflect setbacks or other distances with any specific level of accuracy. This plat does not provide for the accurate identification of property boundary lines, but such identification may not be required for the transfer of title or securing financing or refinancing. The approximate location of the dwelling is shown in relation to the apparent property lines for the property known as

11489 Frederick Road
Howard County, Maryland

William T. Matthews

Ruxton Design Corporation

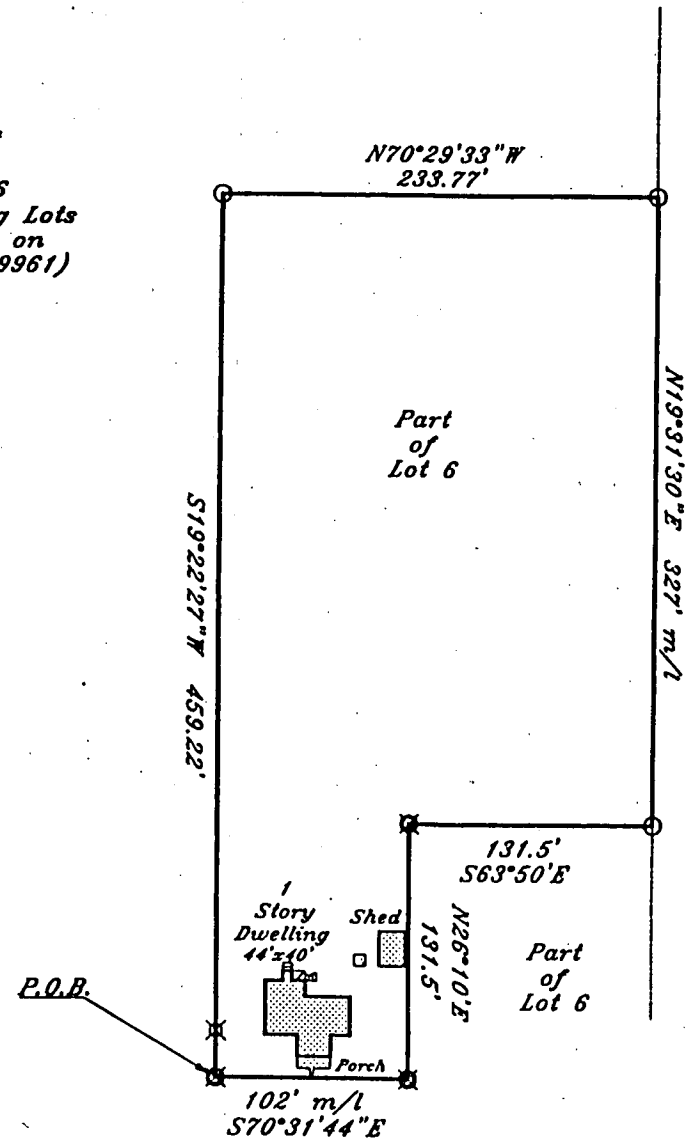
8422 Bellona Lane
Suite 300

Towson, Maryland 21204

410-823-5000
410-823-0115fax

rdc@ruxtondesign.com

www.ruxtondesign.com



FREDERICK ROAD

LIBER 5318 FOLIO 0336



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

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

August 19, 2002

Stan Young
12118 Little Patuxent Parkway #E
Columbia, MD 211044

RE: Percolation Test Potential for New SFD
11489 Frederick Road
Tax Map 16, Parcel 144

Dear Mr. Young:

This is to confirm the content of several discussions with you and others regarding the potential of the referenced property to obtain approval for construction of a new single family dwelling. Such approval is contingent upon establishment of sufficient septic disposal area to support two systems of any approved type in undisturbed soils at least twenty feet from any foundation; this area typically approximates 5000-8000 square feet, depending on site conditions, the number of bedrooms in the proposed house, and other factors. Approval would also be contingent upon installation of a new well which is at least 100 feet from and not directly downslope of any septic system or approved sewage disposal easement. Other approval requirements include proper abandonment of the existing well and septic system.

According to tax records, the parcel is 2.06 acres in size and contains an existing dwelling constructed in 1930. A percolation test conducted in 1991 for a septic system repair indicated shallow water table in one test hole out of five. Based on the inspector's field notes, other test locations may have also encountered water table conditions if they had been excavated to standard depths. A new septic tank and trench were installed; because of less than ideal soil conditions, the trench depth was limited to five feet below grade. The existing pit well ten feet behind the house was left in service.

Based on these test notes, topography submitted by a previously interested buyer, and topography depicted on plans submitted for review of the adjacent Brantwood subdivision (Section 3, Area 2), the lot is dominated by a swale running downhill from northeast to southwest. At the extreme southwestern corner of the property is a stream, surrounded by slopes of ten percent or less. A second swale running parallel to the first is located near the southeastern corner of the property. A small ridge located between the swales is also shown. Since the stream represents exposed water table, this topography is consistent with the 1991 field notes indicating shallow water table as a potentially significant limiting factor for installation of septic systems.

Any septic system must be installed in soils reasonably expected to treat sewage prior to contact with groundwater. This is accomplished by maintaining adequate separation from soils seasonally

saturated by shallow groundwater, by maintaining a minimum separation of 100' to any stream, and avoiding swales and other low-lying areas. The proximity of the stream, the relatively flat slopes nearby and two significant swales indicate a strong potential for shallow water table conditions to dominate a significant portion of the lot. Based on this information and agency experience with similar situations, the only appropriate time to evaluate this lot is at a time when groundwater is at its shallowest depth below grade ("wet season", traditionally spring). Evaluation at any other time of year would potentially risk a "false positive" result: that is, approval based on groundwater levels which do not represent a worst-case scenario. In the opinion of this office, the lot's potential for approval of conventional trench systems is extremely limited.

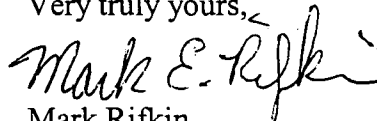
A second type of septic system known as sand mounds may have greater potential for approval because of their accommodation of shallow water tables which would otherwise cause a lot to fail. However, these systems have other drawbacks: 1) each sand mound costs approximately \$15,000-20,000 to design and install; 2) any approved septic disposal area is likely to be larger than its conventional trench counterpart; 3) the approved septic disposal area cannot be disturbed in any way, including by construction, vehicle traffic, grading, storage of materials etc. 4) the approved septic disposal area is usually restricted to slopes of 12% or less, although this may be modified depending on site conditions; 5) due to site conditions, any sand mound approval is likely to be limited to a three-bedroom house. The referenced ridge shows the most potential for sand mound approval, although the swales to either side would be expected to present some degree of limitation.

Because standard wet season precipitation may also influence permeability of upper soil layers (in which sand mound testing occurs), sand mound testing on this lot is also restricted to wet season. Be advised that wet season testing for 2002 was postponed due to the sustained drought and extremely depressed water table levels. The status of wet season 2003 will not be known before January, and any final decision on wet season 2003 may not occur until March or April, 2003.

Review of a percolation test proposal is contingent upon receipt of a completed application, test fees (\$225) and a suitable plan showing the existing house, existing well and existing septic system, proposed house, proposed well, proposed sewage disposal area, declaration of the number of bedrooms in the proposed house, wells and septic systems/sewage reserve areas on adjacent properties and the best available topography with two-foot contours.

If you have any questions, please call me at (410) 313-2640. A percolation test application is enclosed for your use.

Very truly yours,



Mark Rifkin

Well and Septic Program

MR

cc: File

APPLICATION

PERCOLATION TESTING

A 4693F
P Repair

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

DISTRICT _____

DATE Tests Done 8/7/91

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.

Installer
PROPERTY OWNER O.F.K. Construction Co

ADDRESS 4647 Manor Lane, Ellicott City MD 21043 PHONE 465-6898

Owner
PROSPECTIVE BUYER _____

ADDRESS 11489 Frederick Rd, Ellicott City PHONE _____

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. _____

ROAD AND DESCRIPTION 11489 Frederick Rd

TAX MAP _____ PARCEL # _____

SIZE OF LOT _____ TYPE BLDG. _____
(SINGLE FAMILY DWELLING OR COMMERCIAL)

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

(SIGNATURE OF APPLICANT)

APPROVED BY Ronald P. Kelly FOR Repair around Test Hole #415 only DATE 8-15-91

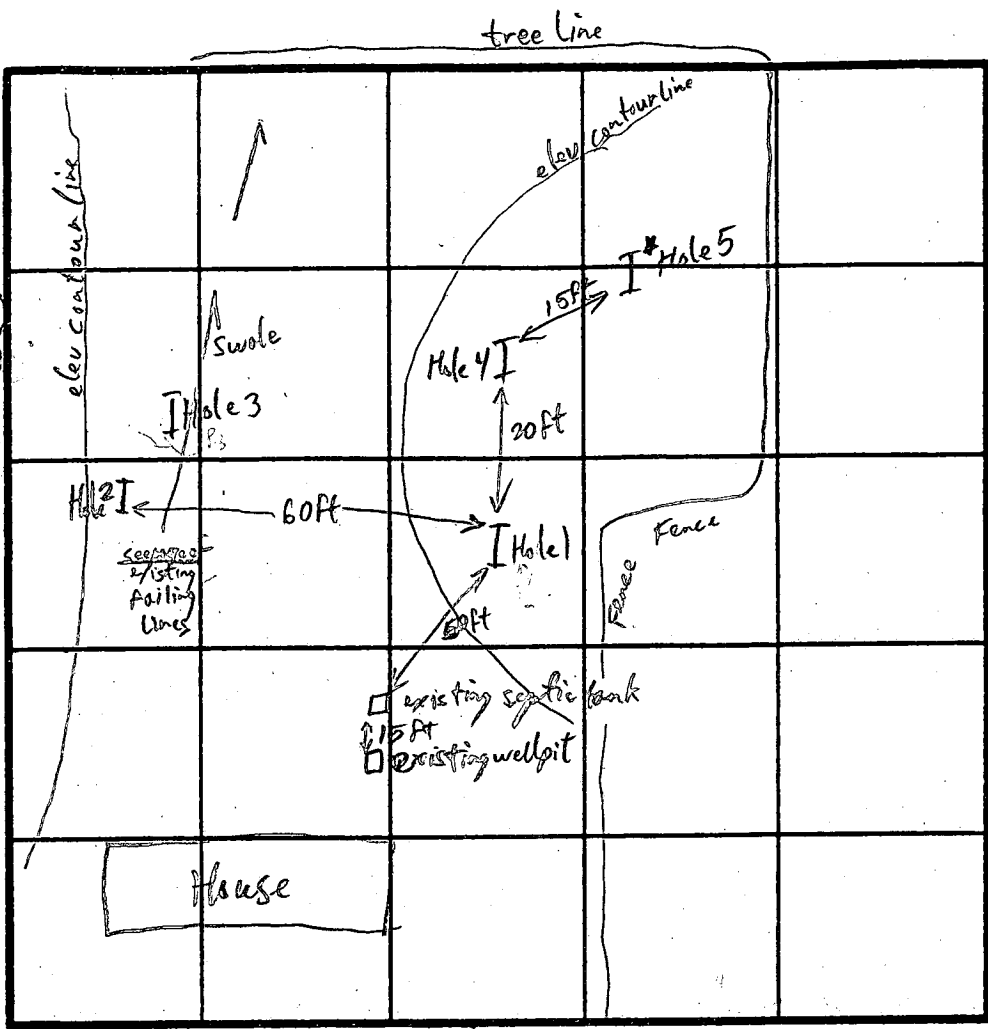
REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING Install as much of disposal system as possible in area of Hole #5 - Place a topseam or water tight septic tank (Fiberglass suggested by installer) as far as possible from existing well pit that still provide gravity flow to drain lines.

HD-216

THIS IS NOT A PERMIT



Hole #1
W SOIL PROFILE E

0' Dark Red (10R 4/6 - 3.5YR 5/6)
hCL (micaceous)
2m Sbk

2 1/2' to 3' platy structured (concrete colors)
saprolite (15% dig > 85% str)

4' to 5' dark grey colors diggable structured saprolite on "rotten rock" hard to dig but breaks to v. micaceous (biotite) loam > 85% str

Hole #4

Descript Same as Hole #2

Dry

Hole #5

Red Brn (7.5-5.0YR 5/6-4/6)
CL-SiL

4' to 5' Strong Brn v. micaceous loamy saprolite loose consistency

Hole #2

Red-Yel Brn's (7.5-5.0YR 5/6-4/6)
SiL-hSiL

3 1/2' somewhat cobbly layer

4' to 5' very micaceous saprolite (Typical Chester loam description)
dry

Hole #3 soils are v. moist here

dark Brn 7.5YR 4/6-3/6
hL-CL somewhat sticky

5' stone layer transition zone

Saprolite dark Brn to Red Brn loamy v. micaceous saprolite Moist

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE-LINE
Frederick Rd

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
8/7/91	Hole #1 P1	@ 5M	3/4" drop in 27 min 10:12	10:36	8 min for second inch 10:36	10:44	~ 30 min	
"	" P2	@ 7 1/2' D 3/4"	drop 2 1/2" in 13 min 10:38	10:51	Laminar hard structured saprolite in 160 ft of rock holes		~ 5 min	
"	Hole #2	8' V	Resistance to digging @ 8 ft.					
"	Hole #3 P3	5' M 8' V	10:44	11:05	(in 21 min)	No Movement		
"	Hole #4	8' V						
"	Hole #5 # Best Hole available	9' V	about 4 1/2' - 9' loose loamy v. micaceous saprolite					should park good

* Note - In Hole #1, very structured saprolite (deeps toward well) could be a problem if sewage leaks from tank with well only 60+ feet away.

REMARKS Area around Hole #5 is most suitable - install advised to put in as much system as he could fit - close to 300 sq ft's id would ideal (per cw)

TYPE OF SOIL Chester loam with Elionak Association in Hole #1

TESTED BY Ronald Parilly 8/7/91 ALSO PRESENT Craig Williams

8/29/91 Repair 11489 Frederic Rd (Rt 144) (Coyle Valley) CW/PT me @ site for 3 Pdr blow

#46938

Trench 1 8ft deep peak shell @ 4'10" - ^{entrance to} very micaceous hard to dig platy structured sspelite
 very red soil 10R 4/6 - 4/8 to 2.5YR 4/8 - 5/8 clay (darker than 6m) probably on thick soil but nearby soils are blandy - Chester Series

LV 9:20 Trench 2 reddish yellow brown (7.5-5.0YR 5/6 - 4/6) and very micaceous sspelite start at 5'6ft deep. persistence to digging @ PFT and a somewhat cobbly layer @ 3'5" - 4'2"

9:05 am Trench 1 - Soil has platy orientation with a 15° dip toward east

Trench 3 - hitting rock @ 5'1" but dig below ^{at a parallel to the way} down 7.5YR 4/6 - 3/6 in subsoil (only 3" head on test)
 not light sandy loamy micaceous poplin trench
 @ 5'5" depth
 Subsoil: 10R 4/6 - 10YR 4/6
 Sspelite is 10R 4/6
 TRI P1 pink Mark-bottom 1'4 1/2"
 10:12:18
 10:15:30
 10:27:15
 10:36:00

Tn 4 same as T2

T5 - Red 2.5-5.0YR 5/8 subsoil to 5ft deep
 4ft - 9ft brown micaceous sspelite
 9ft for parking

Tn 1 about 3/4" in 24 only PFT @ 10:44
 T2 @ 7 1/2 ft deep (bottom) 4' head
 5Y 10:38:10 6' even
 10:51:20 empty 35blows

method
 2/4 750 sqft = 3 = 250 ft
 .6. 14500
 42
 30
 1/3 wide trench

not sample for

Tn 3 @ 5ft deep
 10:44:10 9 3/4"
 about 1/2 ft above micaceous sspelite layer beginning
 10:45:10 9 3/4"
 11:05 9 3/4"

N/M in 20 min

Alyssa Carels

DBA - Document Retrieval

Phone 410-730-0291

FAX 410-730-4087

W#TH-F (10-5)-410-992-3000.

RE: File for 11489 Frederick Rd

prev. owners Jack Carroll and/or Gail Kelly

- Need restrictions + covenants for new construction on lot.
- any info regarding building on lot.

* IF I can't be reached

Call 410-992-4545 → Betsy Case w/
Guida & Eagan

she was to try to return call on Friday 11/2/00
eventually unable to do so. Need to see
proposal of what they plan to do before giving specific
answers. RJ 11/2/00

6/13/01

Spoke w/ new owner

For new construction OR expansion -

System & one repair needed

Perc Application & test plan required

certify well construction by licensed

driller - may need to drill

new well.

A. McMill



Location Drawing

Scale: 1" = 100'

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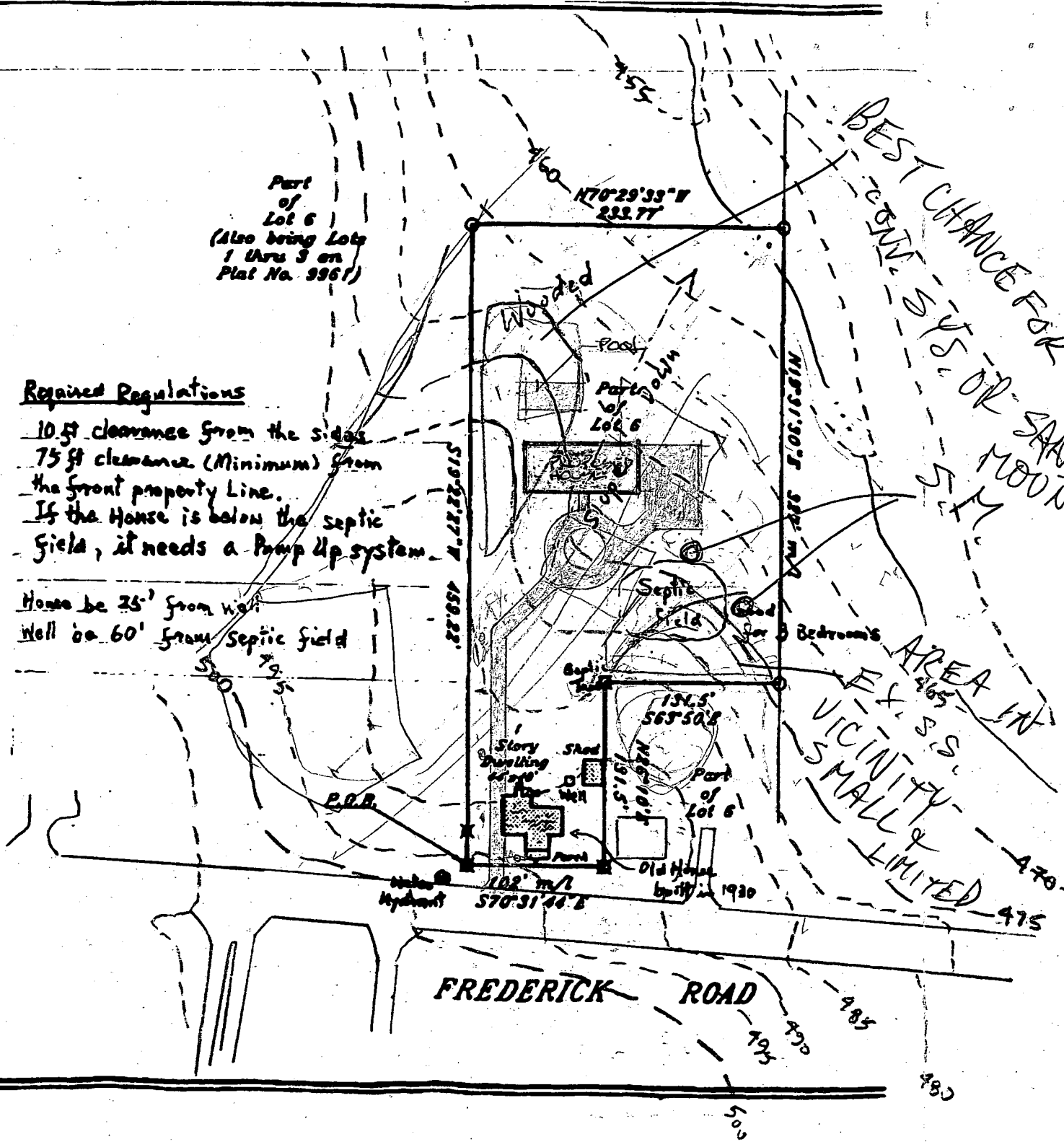
www.ruxtondesign.com

Part of Lot 6
(Also being Lots 1 thru 3 on Plat No. 9961)

Required Regulations

- 10 ft clearance from the sides
- 75 ft clearance (Minimum) from the front property line.
- If the House is below the septic field, it needs a Pump Up system.

House be 35' from well
Well be 60' from Septic field



ACCURATE TOPOGRAPHY & SOIL TYPES w/ 2' CONTOURS

EX. HOUSE, WELL, SEPTIC

PROP. HOUSE, WELL, SEPTIC LENGTH ENOUGH FOR 2 SYSTEMS

ADJ. WELLS/SEPTICS

BEST CHANCE FOR

RECENT 5'5" OR SHAD

1 SAND MOUND, SAND MOUND, AND

1 TRENCH SYSTEM OR

2 TRENCH SYSTEMS OR

AREA IN VICINITY SMALL & LIMITED

UBR5318 PND0336