

9/1/99 Early AM

# PERMIT

## SEWAGE DISPOSAL SYSTEM

P 511588

A 56618-D

### DEPARTMENT OF HEALTH AND MENTAL HYGIENE

DISTRICT \_\_\_\_\_

### INDEXED

DATE 5/17/99

### HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

~~XXXXXX~~ 410-313-2640

DATE SYSTEM APPROVED 9/1/99

INSPECTOR SRK

*04-362-179*

RWR Plumbing Inc. IS PERMITTED TO INSTALL  ALTER

ADDRESS 7348 Hughes Avenue, Baltimore, MD 21219 PHONE 410-531-2982

SUBDIVISION Laniado Property LOT 4 ROAD 17121 Frederick Road

PROPERTY OWNER Shannon Maura

ADDRESS \_\_\_\_\_

SEPTIC/TANK CAPACITY 1250 GALLONS **TOP SEAMED TANK REQUIRED**

NUMBER OF BEDROOMS 4

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 240

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 2 feet below original grade. 2 feet of stone below distribution pipe.

LOCATION - Beginning from the intersection of the 298.00' and 185.06' lot lines, begin trenches 100 feet up the 298.00' lot line and 50 feet off that same lot line. Run trenches on contour in both directions.

NOTES - No trenches to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. *OG 41599 DKS*

PLANS APPROVED BY Amy McMillen DATE 4-09-1999

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 25/40 PVC OR ABS ~~2000~~ PERMIT ~~SIGNED~~

PERMIT VOID AFTER TWO YEARS

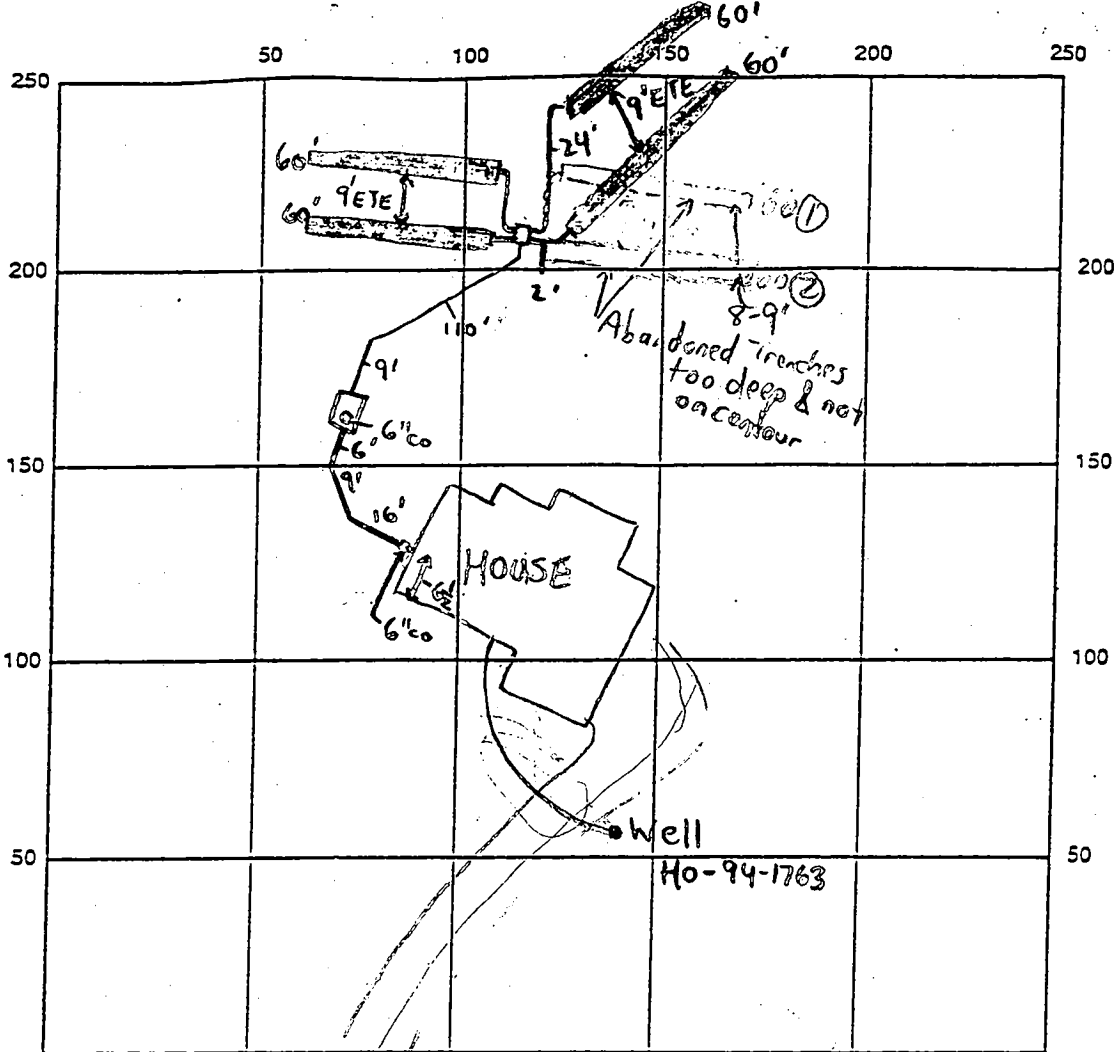
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON, CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET. MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

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

*AND RETURNED 8-26-99  
Serial # B77125060  
Inst. undgd 1-1070 gal  
purpose loc.*

*156157*



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE  
FREDERICK ROAD

SEPTIC TANK LEVEL 1250 midseam tank OK (DKS) CLEANOUTS 6" @ House, 6" @ Tank

DISTRIBUTION BOX LEVEL ✓ Baffle is in

DRAIN FIELD/TITLE DEPTH 4 FT. TRENCH WIDTH 3 FT. INLET DEPTH 2-2 1/2 FT.

EFFECTIVE GRAVEL DEPTH 2 FT. TOTAL LENGTH 240 FT.

NUMBER OF TRENCHES 4 ONE SIDEWALL/BOTTOM AREA 720 SQ. FT.

DRYWALL INSIDE DIAMETER N/A FT. EFFECTIVE DEPTH BELOW INLET N/A FT.

ABSORBENT AREA N/A SQ. FT.

REMARKS: 9/1/99-WPI OK; CONTRACTOR INSTALLED TRENCHES (1) & (2) 2-5' DEEPER THAN SPECIFIED, ALSO TRENCHES DO NOT APPEAR TO BE ON CONTOUR (NO TRANSIT USED) TOO MUCH ROCK TO APPROVE DEPTH OF TRENCHES (1) & (2), CONTRACTOR REQUIRED TO ABANDON TRENCHES (1) & (2) ABOVE AND DIG TWO NEW TRENCHES ON CONTOUR AT THE SPECIFIED DEPTH; ALSO MIDSEAM TANK WAS INSTALLED

INSTEAD OF REQUIRED TOPSEAM, ON BECAUSE OF SHALLOW DEPTH OF TANK - (GRK/DKS)

9/1/99 - ON TO COVER ALL WORK (GRK)

DATE SYSTEM APPROVED 9/1/99 INSPECTOR Steven R. Kuey

# APPLICATION

PERCOLATION TESTING

A 56618 G

P \_\_\_\_\_

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

DISTRICT 4

DATE 5/12/96

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 GEORGE & THERESA C. LANIADO

ADDRESS 18035 FREDERICK ROAD MT. AIRY, MD 21771  
PHONE \_\_\_\_\_

AGENT OR PROSPECTIVE BUYER C & M PARTNERSHIP

ADDRESS 1750 DAISY RD.  
WOODBINE, MD 21797 PHONE (410) 442-1045

PROPERTY LOCATION:

SUBDIVISION LANIADO PROPERTY LOT NO. X 4

ROAD AND DESCRIPTION SOUTH SIDE FREDERICK RD (MD, RTE. 144 OPPOSITE  
INTERSECTION WITH BEET 2 ROAD.

TAX MAP 7 PARCEL # 8

SIZE OF LOT 1 AC. + TYPE BLDG. SINGLE FAMILY RESIDENTIAL  
(SINGLE FAMILY DWELLING OR COMMERCIAL)

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

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

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

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

REASONS FOR REJECTION OR HOLDING \_\_\_\_\_

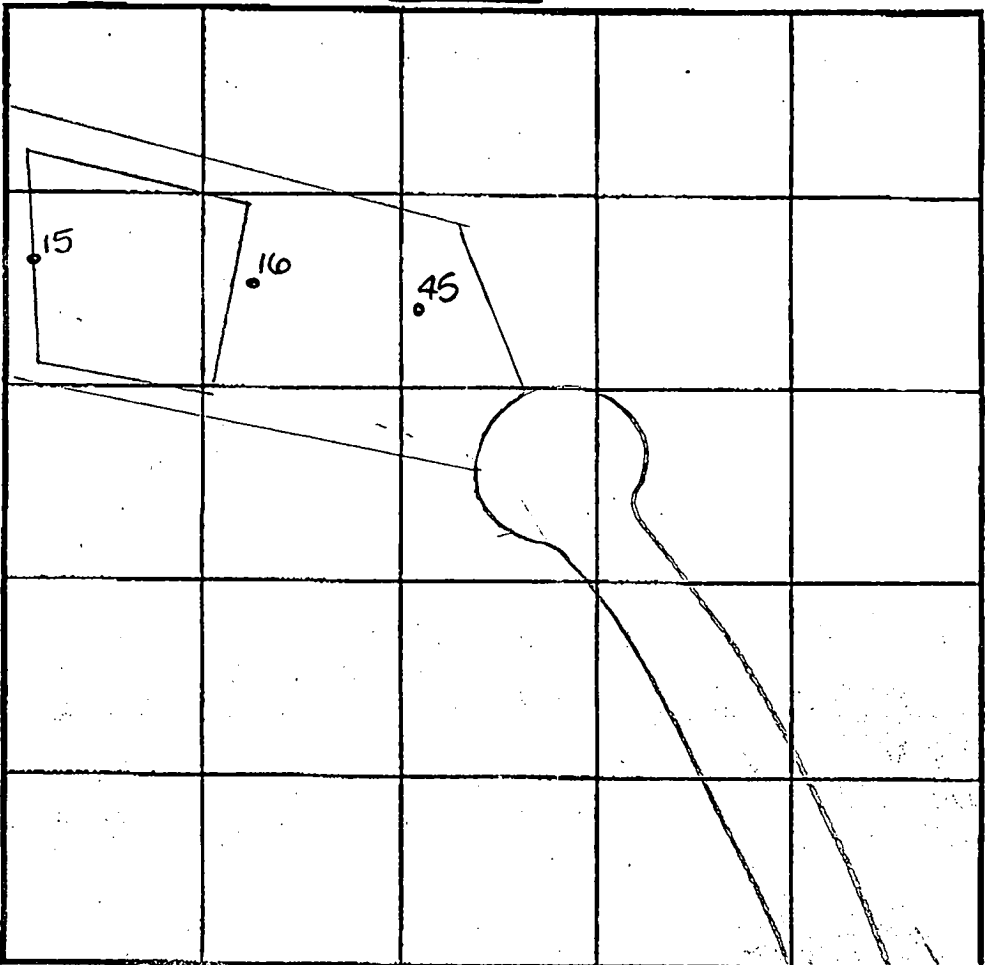
PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

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

# THIS IS NOT A PERMIT

LOT 7

566189  
COUNTY #



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Frederick Road

SOIL PROFILE

(15)

0' topsoil  
1' or red br cl 1m  
14 br sl 1m w/sm frag  
9' Refusal

SOIL PROFILE

0'

(16)

0' topsoil  
1' or br cl 1m  
25' 14 br sl 1m

8' 20%+ shale frag  
9.5'

(45)

0' topsoil  
1' or red br cl 1m  
25' 14 or br sl 1m

9' Refusal

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
5-20-96	No tests performed						
6-26-96	15	3.5'S	2:25 <sub>30</sub>	2:27	2:27	2:31	4
		9.0'D	Visual	- See	profile		
	16	3.0'S	2:36	2:37 <sub>30</sub>	2:37 <sub>30</sub>	2:42	5
		9.5'D	Visual	- see	profile		
	45	2.5'S	12:13	12:14	12:14	12:17	3
		9.0'D	Visual	- See	profile		
	4						

REMARKS holes tested as staked

TYPE OF SOIL

TESTED BY D. Soe ALSO PRESENT Mr. Carter, Mr. Marshall

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 4 TRENCH WIDTH 3

INLET DEPTH 2.0 MAXIMUM BOTTOM DEPTH 4.0 SQ. FT./BEDROOM 180





**FIELD DATA SHEET**  
**HOWARD COUNTY WELL YIELD TEST**

Well Permit No. HO - 94-176a3  
 Location of property (road) Frederick Road  
 Subdivision Laniado Property Lot 4 Block      Plat      Sec.       
 Well Driller J. Mayne Owner C&M Partnership

Depth of well 440'  
 Distance of measuring point (M.P.) above ground 2'  
 Static water level (S.W.L.) below M.P. 67'

**I. High rate pumping -- reservoir drawdown**

Time pump started 6:45 Pumping rate 1500 gpm.  
 Total time 55 min. to reach pumping water level 403 ft below M.P.

**II. Recovery pump test data - observations to be recorded every 15 minutes**

TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill 5/1 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
7:00	203'	4 sec.	N/A	1500 gpm.
7:15	300	5		1200
7:30	373	5		12
7:40	403	6		10
7:55	402	54		1.1
8:10	402	54		1.1
8:25	402	54		1.1
8:40	402	54		1.1
8:55	401	54		1.1
9:10	401	54		1.1
9:25	400	54		1.1
9:40	400	54		1.1
9:55	400	54		1.1
10:10	400	54		1.1
10:25	399	54		1.1
10:40	397	54		1.1
10:55	398	47		1.2
11:10	398	47		1.2
11:25	398	47		1.2
11:40	398	47		1.2
11:55	398	47		1.2
12:10	398	47		1.2
12:25	398	47		1.2
12:40	398	47		1.2
HD-22412:55	398	47		1.2
1:10	398	47		1.2

*over*

B 1 3605

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL please print or type

STATE PERMIT NUMBER

HO-94-1763 fill in this form completely

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

Date Received (APA) 09/15/98

OWNER INFORMATION

c.m. Partnership Last Name, Daisy Rd. Street or RFD, Woodbine Md. 21799

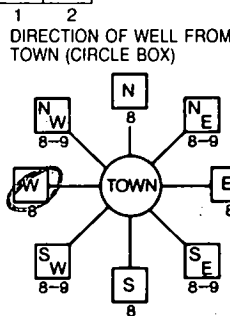
LOCATION OF WELL

Howard COUNTY, LANIADO SUBDIVISION, SECTION 44, LOT 4, Lisbon NEAREST TOWN, 3 MILES FROM TOWN

DRILLER INFORMATION

Joseph L. Mayre M S D 024 Driller's Name, License No. 81, Joseph L. Mayre Well Drilling Firm Name, 5512 Ridge Rd. Mt. Airy 21771 Address, Joseph L. Mayre 9/14/98 Signature, Date

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



MD 144 Baltimore National Rd NEAR WHAT ROAD

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



657 DISTANCE FROM ROAD ENTER FT OR MI, TAX MAP, BLK, PARCEL

WELL INFORMATION

APPROX. PUMPING RATE 5 GAL. PER MIN., AVERAGE DAILY QUANTITY NEEDED 500 GAL. PER DAY

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- Home (single or double household unit only), Farming, Industrial, Commercial, State and Federal Gov. Other, Public or private water company, Test, observation, monitoring

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

HOWARD COUNTY NAME, A516618 COUNTY NO., STATE SIGNATURE, DATE ISSUED 09/24/98, CO-SIGNATURE, EXP. DATE, NORTH GRID 558 000, EAST GRID 0766 000

APPROXIMATE DEPTH OF WELL 200 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

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 deepen an existing well

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

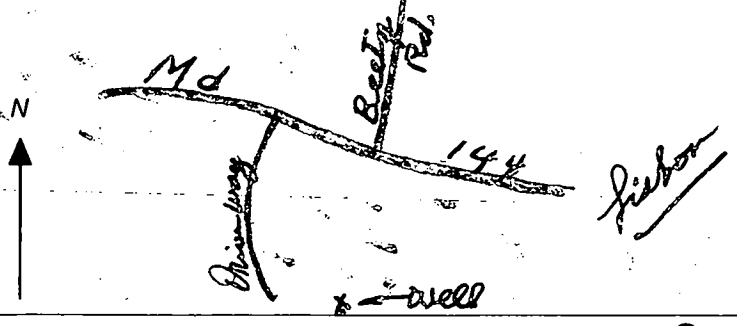
SOURCES OF DRILLING WATER

- Well, 12.298, Grout 9.30

WRITE THE BOX NUMBER FROM THE MAP HERE

E 7686, N 558

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



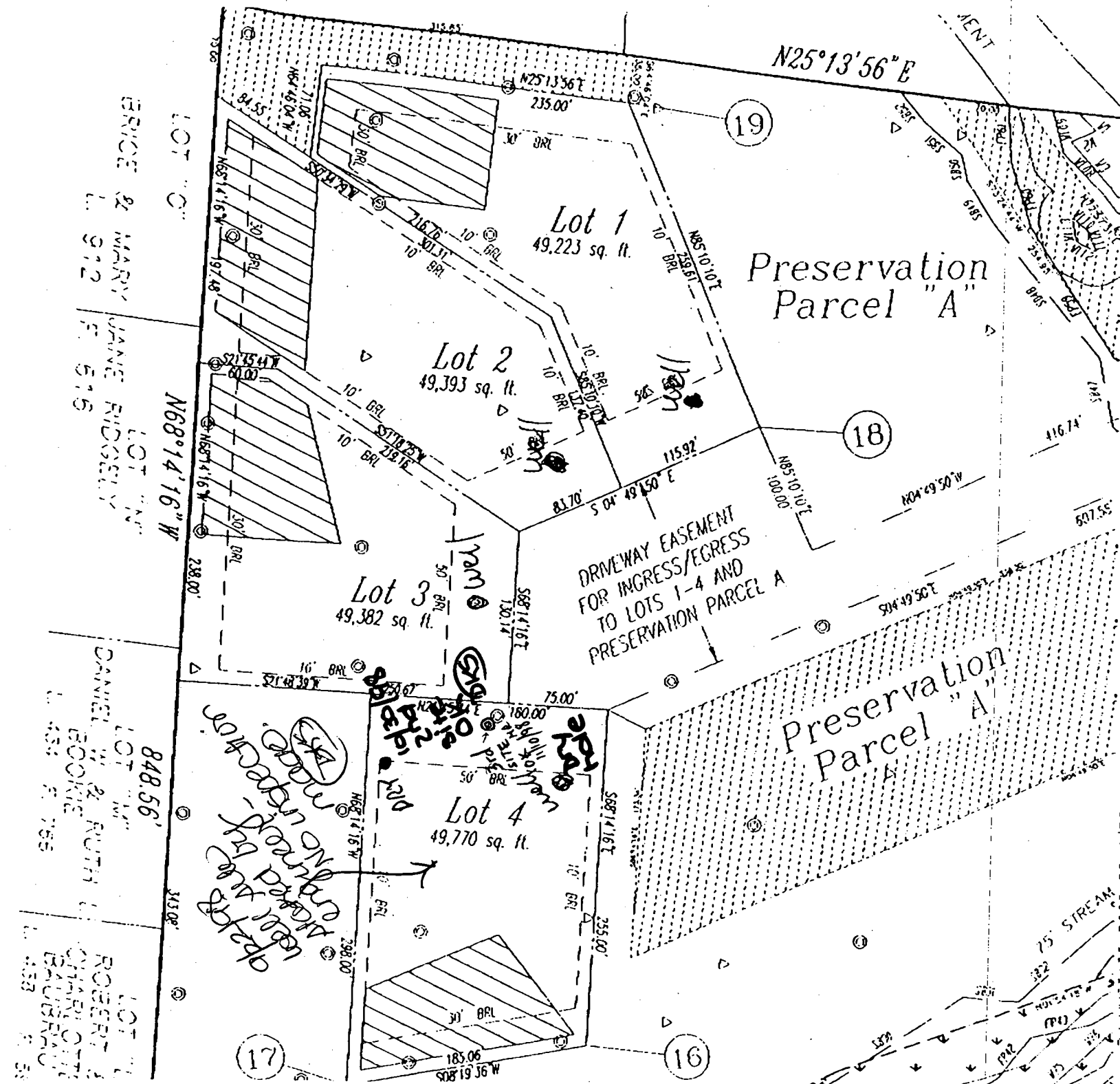
Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROX. PERMIT NUMBER 54, FORCE DS, PERMIT No. HO-94-1763

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

44°55'E	57.84'	V41	S27°36'57"W	77.59'
32°15'E	26.18'	V42	N75°10'07"W	13.57'
70°43'V	24.96'	V43	N25°30'53"V	15.05'
71°12'E	163.75'	V44	N46°53'24"E	5.69'
74°48'V	34.91'	V45	S27°01'55"E	21.28'
45°44'E	37.69'	V46	N50°05'58"V	39.63'
5°16'V	42.92'	V47	N47°00'19"E	5.92'
113°25'V	25.94'	V48	S57°57'37"E	27.37'
05°19'V	27.15'	V49	S63°30'07"E	24.13'
05°36'V	76.16'	V50	S20°54'33"E	16.25'
113°19'E	52.62'	V51	N50°10'58"E	18.34'
1°36'17'E	117.53'	V52	N63°54'24"E	11.17'
1°32'15'V	65.98'	V53	N01°04'22"E	17.89'
1°50'08'E	57.41'	V54	S16°24'33"V	43.35'
7°18'14'V	57.27'	V55	S29°30'37"V	58.59'
7°30'28'E	44.75'	V56	S08°08'40"V	47.15'
7°16'29'E	47.36'	V57	S52°07'56"V	43.66'
2°29'20'E	14.59'	V58	S27°07'50"E	33.07'
2°32'16'V	54.55'	V59	S08°47'02"E	33.14'
4°31'25'E	36.46'	V60	S11°08'15"E	37.11'
5°56'08'V	140.68'	V61	S37°05'37"E	41.92'
1°45'44'E	43.57'	V62	S37°32'30"E	72.72'
7°16'29'V	73.87'	V63	S12°35'49"E	41.46'
0°30'28'V	79.94'	V64	S24°29'25"V	27.35'
7°18'14'E	69.65'	V65	S14°25'10"E	56.49'
1°50'48'V	48.08'	V66	S20°17'02"V	47.43'
0°32'15'E	33.31'	V67	S14°11'51"E	59.22'
74°26'13'V	79.88'	V68	S08°57'42"E	47.08'
57°44'55'V	55.77'	V69	S42°24'58"E	34.14'
45°41'38'E	4.76'	V70	S11°19'56"E	53.82'
74°22'57'V	27.78'	V71	S01°24'17"V	66.47'
59°46'17'V	48.15'	V72	S13°13'11"E	22.12'
76°51'01'V	48.64'	V73	N02°52'06"V	26.17'
55°14'16'V	17.51'	V74	N09°05'10"E	77.17'
54°56'12'V	57.52'	V75	N24°33'20"V	42.68'
25°27'14'V	20.85'	V76	N25°04'08"V	35.59'
67°15'20'V	57.95'	V77	N06°19'39"V	47.38'
82°24'11'V	32.60'	V78	N14°56'09"V	61.92'
69°14'25'V	129.33'	V79	N27°17'59"E	46.29'
74°08'09'V	36.15'	V80	N22°09'52"V	54.66'
04°27'40'V	19.89'	V81	N21°57'51"E	28.38'
57°19'47'V	37.46'	V82	N17°43'26"V	38.93'
68°39'12'V	29.22'	V83	N31°07'42"V	73.82'
02°43'09'E	18.77'	V84	N37°58'40"V	42.57'
59°58'03'E	12.98'	V85	N13°11'12"V	38.49'
06°45'55'E	47.18'	V86	N07°11'48"V	20.94'
074°32'15'E	33.62'	V87	S68°14'26"V	22.72'
063°55'27'E	41.94'	V88	N06°25'45"V	16.11'
074°20'39'E	50.87'	V89	S56°36'34"V	11.91'
002°36'59'E	22.46'	V90	S19°51'38"V	28.45'
043°49'22'E	24.19'	V91	S47°09'49"V	38.44'
062°36'36'E	37.27'	V92	S70°33'44"V	27.17'
N8°12'47'E	18.16'	V93	S59°45'21"V	39.28'
N64°46'53'E	22.18'	V94	S57°20'23"V	26.99'
N79°09'47'E	22.52'	V95	S50°11'49"V	35.87'
N80°36'26'E	31.67'	V96	N06°02'49"V	32.72'
S65°58'23'E	25.01'	V97	S47°19'10"V	23.32'
N97°25'34'E	23.07'	V98	S45°57'27"V	8.75'
N61°05'20'E	21.70'	V99	S58°15'49"V	17.07'
N50°11'52'E	18.79'	V100	S68°15'39"V	17.44'
N56°12'45'E	20.63'	V101	S52°12'18"V	34.74'
S77°01'49'E	2.48'	V102	S31°26'16"V	29.17'
N65°09'58'E	31.47'	V103	S36°16'05"V	21.66'
N51°19'29'E	36.25'	V104	N40°17'22"V	25.98'



TRICE & MARY  
JANE RIDGELY  
LOT "C"  
N68°14'16"W

DANIEL W. & RUTH  
BOOKER  
LOT "A"  
848.56'  
ROBERT  
MARTIN  
LOT "B"  
EUGENE  
LOT "D"

opportunity for a new road  
848.56'

Lot 1  
49,223 sq. ft.

Lot 2  
49,393 sq. ft.

Lot 3  
49,382 sq. ft.

Lot 4  
49,770 sq. ft.

Preservation Parcel "A"

DRIVEWAY EASEMENT  
FOR INGRESS/EGRESS  
TO LOTS 1-4 AND  
PRESERVATION PARCEL A

19

18

17

16

25' STREAM

HOWARD COUNTY HEALTH DEPARTMENT  
Bureau of Environmental Health  
3525-H Ellicott Mills Drive  
Ellicott City, MD 21043

~~461-9630~~  
313-2640

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

New Installation  Replacement

Receipt # \_\_\_\_\_ Date 8/29/99

Name of Installer R.W.R. PLBG inc. Telephone 410-531-2982

License Number 4605

Certified Well Pump Installer  Well Driller  Registered Plumber

Name of Property Owner CAM PARTNERSHIP Telephone N/A  
SUNNOWN MARYLA

Subdivision CANIADO PROPERTY Lot # 4 Well Tag # HO-24-1763

Site Address 17121 FREDERICK RD

**Pump**

1. Type  
 a. Deep well jet \_\_\_\_\_  
 b. Shallow well jet \_\_\_\_\_  
 c. Submersible

2. Make JACO 221

3. Model # P1815 218-52

4. Capacity 5 GPM

5. Pump exceeds well capacity Yes  No \_\_\_\_\_

6. If Yes, is low pressure cutoff switch installed? Yes \_\_\_\_\_ No

7. What methods are used to protect the pump and electrical wiring from vibrations?  
 Torque arrestors  Cable guards \_\_\_\_\_ Other \_\_\_\_\_

**Motor**

1. Horsepower 1 HP

2. RPM \_\_\_\_\_

3. Voltage 230V  
 a. 110 \_\_\_\_\_  
 b. 220 1 PH

**Pitless Adapter**

1. Make CAMPBELL

2. Model # \_\_\_\_\_

3. Depth 42"

**Tank**

1. Capacity 60 gal

2. Pressure relief valve? Yes

**Piping**

1. Type BLACK WELL PIPING

2. Size 1"

3. NSF and/or BOCA Code approved

4. Depth of supply line 42'

**Well data**

1. Depth 440 ft.

2. Yield bach GPM

3. Static water level 67 ft.

4. Will water supply be disinfected by installer? NO

I understand that it is my responsibility to notify the Howard County Health Department when the installation is ready for inspection (otherwise this permit is null and void).

All information given above is true to the best of my knowledge.  
Signature of Applicant: Walt Korera  
Date: 9/8/99

Note: A sticker indicating approval/status of the installation will be placed on the well casing at the time of the inspection.

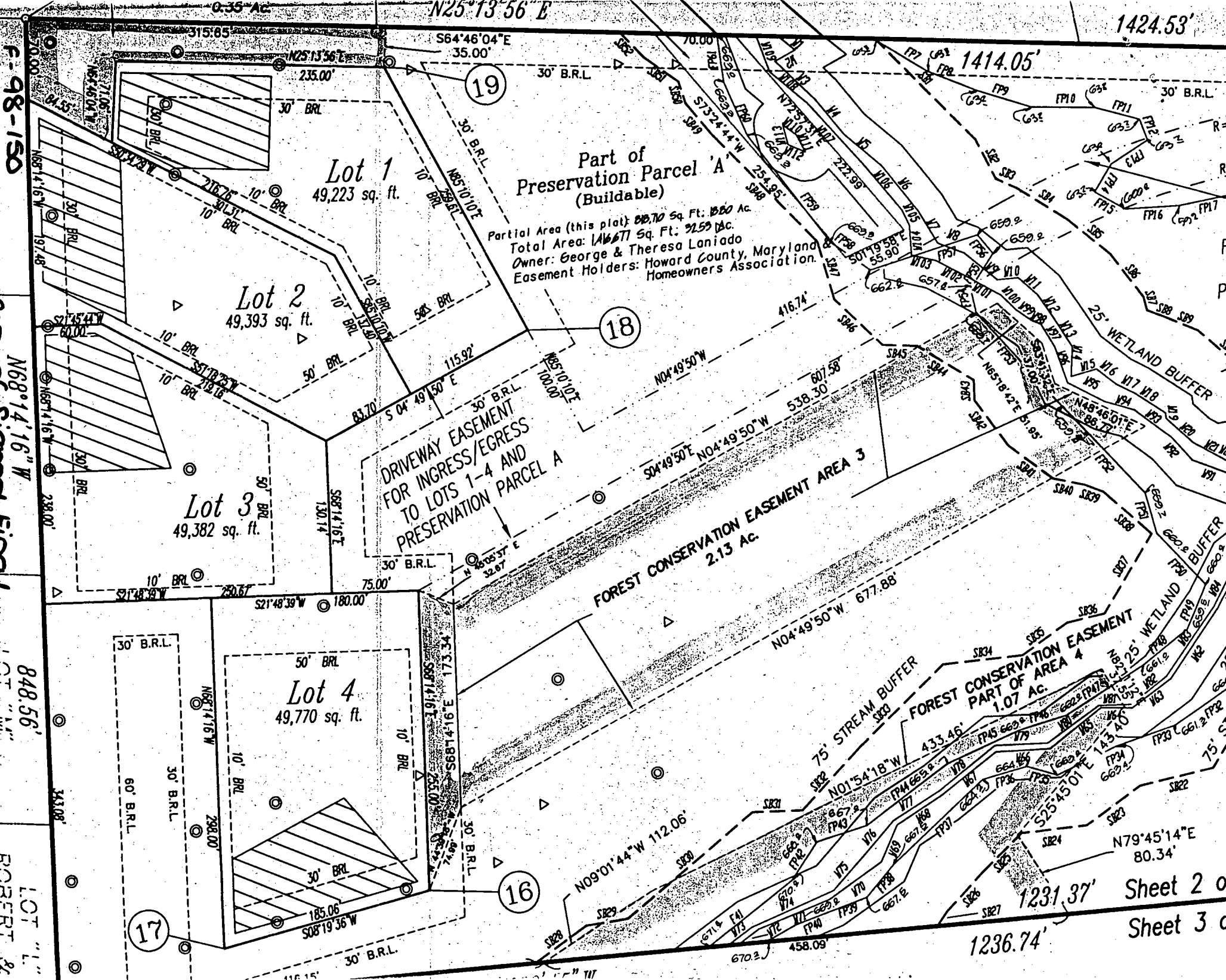


F-98-150

copy of Signed Final

848.56'

LOT 1  
ROBERT &



Lot 1  
49,223 sq. ft.

Lot 2  
49,393 sq. ft.

Lot 3  
49,382 sq. ft.

Lot 4  
49,770 sq. ft.

Part of  
Preservation Parcel A  
(Buildable)  
Partial Area (this plot): 88,70 Sq. Ft. 1.00 Ac.  
Total Area: 146,671 Sq. Ft. 3.259 Ac.  
Owner: George & Theresa Laniado  
Easement Holders: Howard County, Maryland  
Homeowners Association.

DRIVEWAY EASEMENT  
FOR INGRESS/EGRESS  
TO LOTS 1-4 AND  
PRESERVATION PARCEL A

FOREST CONSERVATION EASEMENT AREA 3  
2.13 AC.

FOREST CONSERVATION EASEMENT  
PART OF AREA 4  
1.07 AC.

Sheet 2 of  
Sheet 3 of

1424.53'

1414.05'

1231.37'

1236.74'

19

18

16

17

Septic

Total linear feet of trench required 240 feet

Width of trench(es) 3.0 feet

Depth of trench(es) 2.0 feet

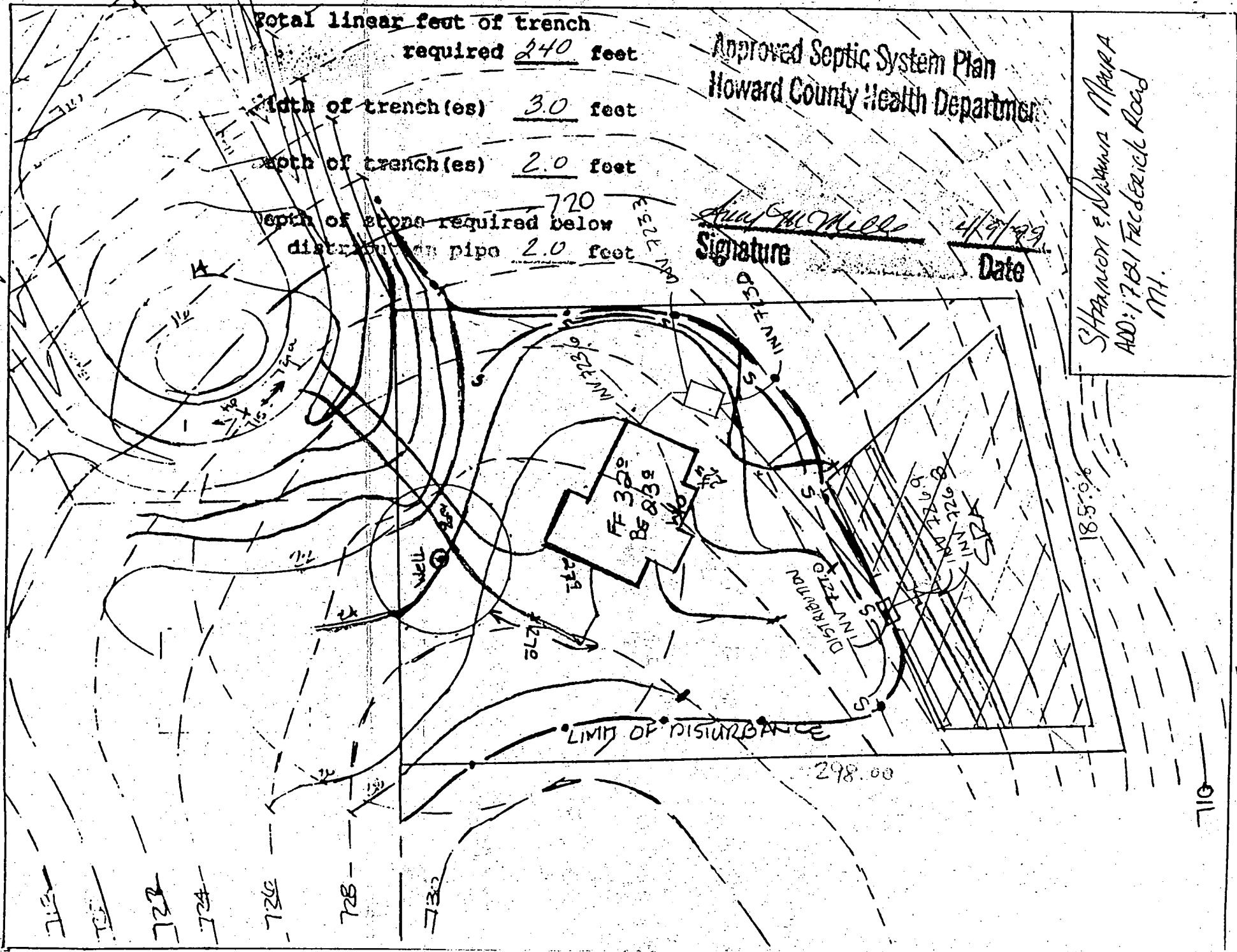
Depth of stone required below distribution pipe 2.0 feet

Approved Septic System Plan  
Howard County Health Department

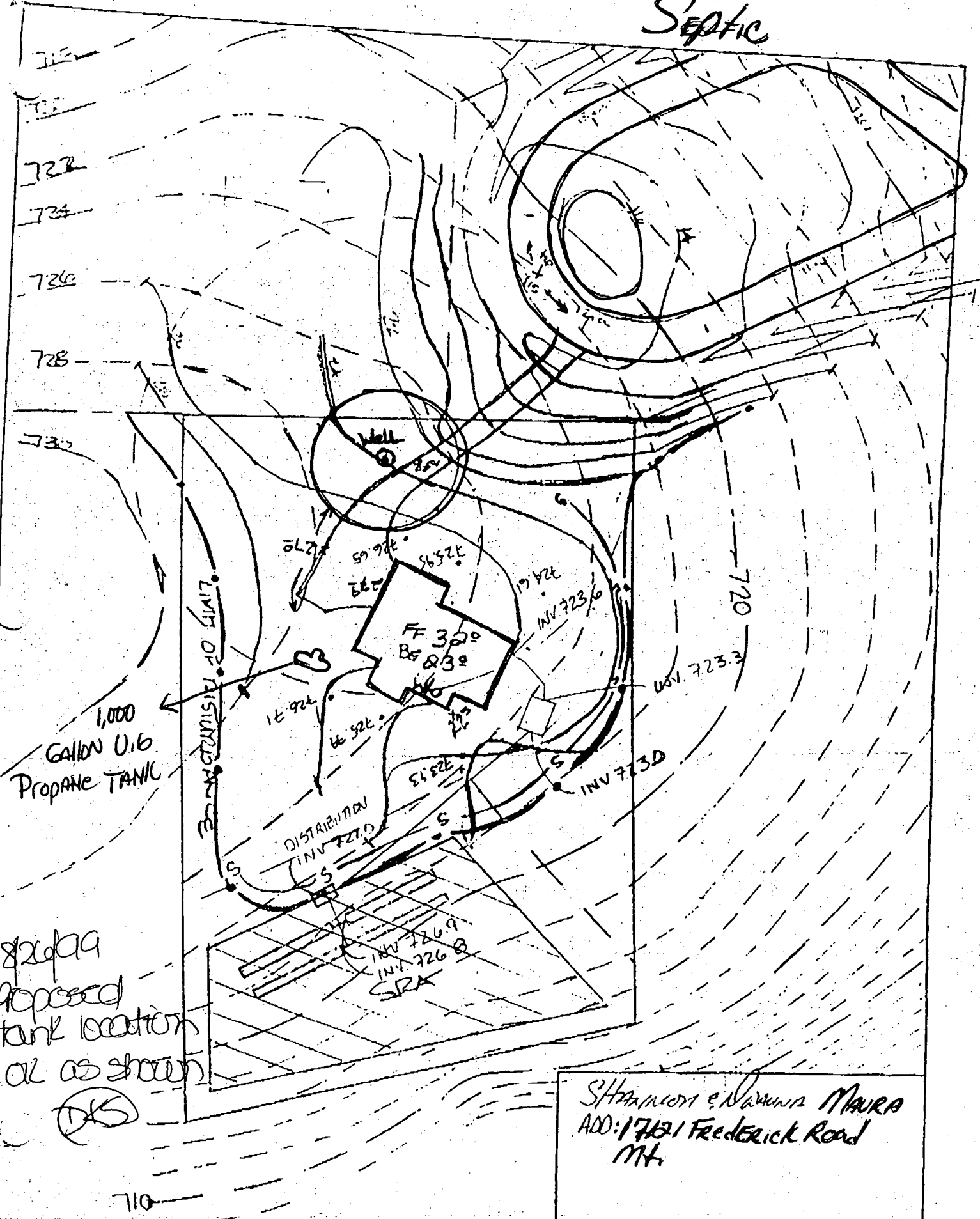
*Ann McMill*  
Signature

4/9/99  
Date

Shannon & Norma Moore  
ADD: 1781 Frederick Road  
MD.



# SEPTIC



826099  
 Proposed  
 tank location  
 as shown  
 (KS)

SHANNON & MARRA MAURA  
 ADD: 17621 Frederick Road  
 MT.