

3/23/99  
2:00  
5/24/99  
10:30  
3/24/99  
6:30

# PERMIT

3/24/99 Needs house  
conn 618

## SEWAGE DISPOSAL SYSTEM

P 511468

## DEPARTMENT OF HEALTH AND MENTAL HYGIENE

A 46864

DISTRICT 5th

05-415926

DATE 3/19/99

### HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH  
~~XXXXXXXX~~ 410-313-2640

DATE SYSTEM APPROVED 5/24/99

INSPECTOR B. B.

### INDEXED

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

ADDRESS 580 Obrecht Road, Sykesville, Maryland 21784 PHONE 410-795-5674

SUBDIVISION Sanborn Property LOT 3 ROAD 4963 Ten Oaks Road

PROPERTY OWNER Thomas & Cathy Bittner

ADDRESS \_\_\_\_\_

SEPTIC TANK CAPACITY 1250 GALLONS TOP-SEAMED

**TOP-SEAMED**  
\*\*\*INSTALL 1-1250 GALLON PUMP CHAMBER  
TO BE ~~INSTALLED~~ NOW FOR FUTURE USE.\*\*\*  
**INSTALLED**

NUMBER OF BEDROOMS 4

210 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 280

TRENCHES - Trench to be 3 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 5 feet below original grade. Effective area begins at 3 feet below original grade. 2 feet of stone below distribution pipe.

LOCATION - Place the distribution box 250 feet down the left (410.65') lot line and 55 feet off that same lot line as seen when facing the lot from Ten Oaks Road. Run trenches along contour towards the left lot line.

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

PLANS APPROVED BY Kim Maiste/Glen Savage REVISED DATE 10-16-98

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 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**

41864



SUBDIVISION: Sawborn Prop LOT NUMBER 3  
STREET NAME: Ten Oaks Road

A 4686#4

AVERAGE PERCOLATION RATE: 10 min SQUARE FEET PER BEDROOM: 210  
NUMBER OF BEDROOMS: 4 LINEAR FEET OF TRENCH PER BEDROOM: 70  
TOTAL LINEAR FEET OF TRENCH: 280 4 BEDROOMS PER DAN SUMNER AT PERMITS DEPT RELAYED BY DIANA LORAN ON 10-2-98

SEPTIC TANK CAPACITY: 1250 GALLONS  
1250 GALLON PUMP CHAMBER TO BE INSTALLED NOW  
FUTURE

TRENCH DIMENSIONS

Trench to be 3 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 5 feet below original grade. Effective area begins at 3 feet below original grade. 2 feet of stone below distribution pipe.

PUMPED SYSTEM PROPOSED: YES NO

PUMPED SEPTIC SYSTEM DETAIL

     Gallon pump chamber: top seamed center seamed

BLDG. PERMIT SIGNED  
AND RETURNED 10-16-98  
Serial # BR 113P32

Note 1: Septic pump detail to be provided by installer prior to issuance of septic permit.

Note 2: Pump performance test is necessary prior to Health Department approval of pumped septic system

LOCATION: Place the distribution box 250' down the left (410.65') lot line and 55' off that same lot line as seen when facing the lot from Ten Oaks Rd. KM 6-2-97  
Run TRENCHES ALONG CURBLINE TOWARDS THE EAST LOT LINE  
REV 10-16-98

ADDITIONAL NOTES: \_\_\_\_\_

Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

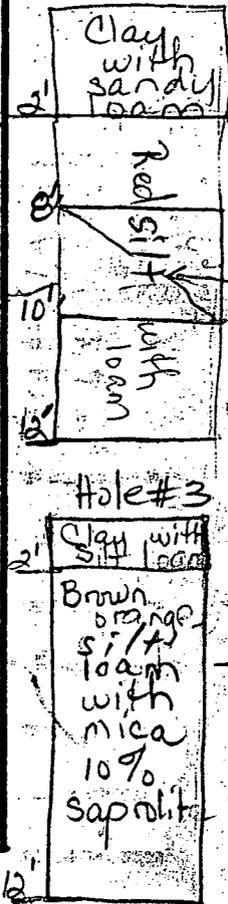
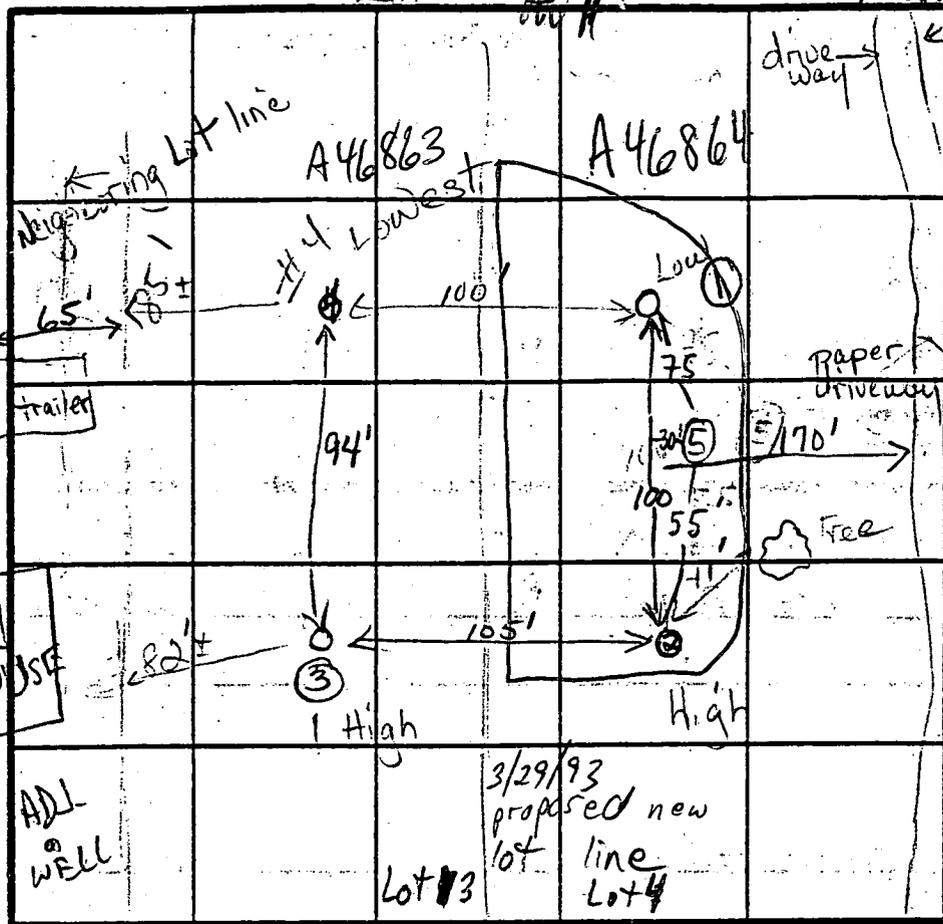
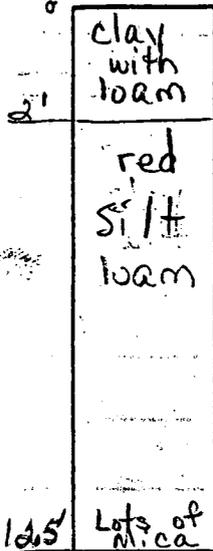
**KEEP in Property File**



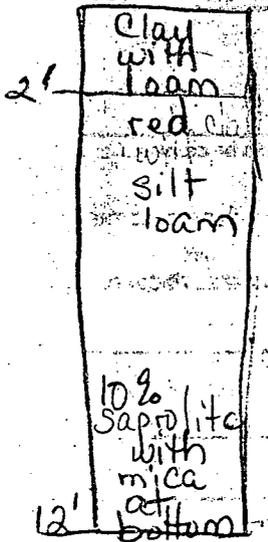
A-46864  
 Lot # 3  
 Hole # 1

Lot # 3 ON RECORD PLAT stream  
 Hole # 4

SOIL PROFILE



INDICATE NORTH NAME ADJOINING ROADWAY AS BASE LINE.  
 Ten Oaks Road



DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
4/1/91	①	S 3'	12:12	12:16	12:16	12:26	10
	✓	12 1/2'					
	②	S 3 1/2'	12:14	12:24	12:24	12:32	8
	✓	12'					
	③	S 3'	12:15	12:17	12:17	12:39	22
	M	7'	12:31	12:32	12:32	12:33	1
	✓	12'					
	④	S 3'	12:37	12:41	12:41	12:45	4
	✓	12'					
3/29/93	5	S 3 1/2' 13'	10:55	11:06	11:06	11:20	14
			see profile				

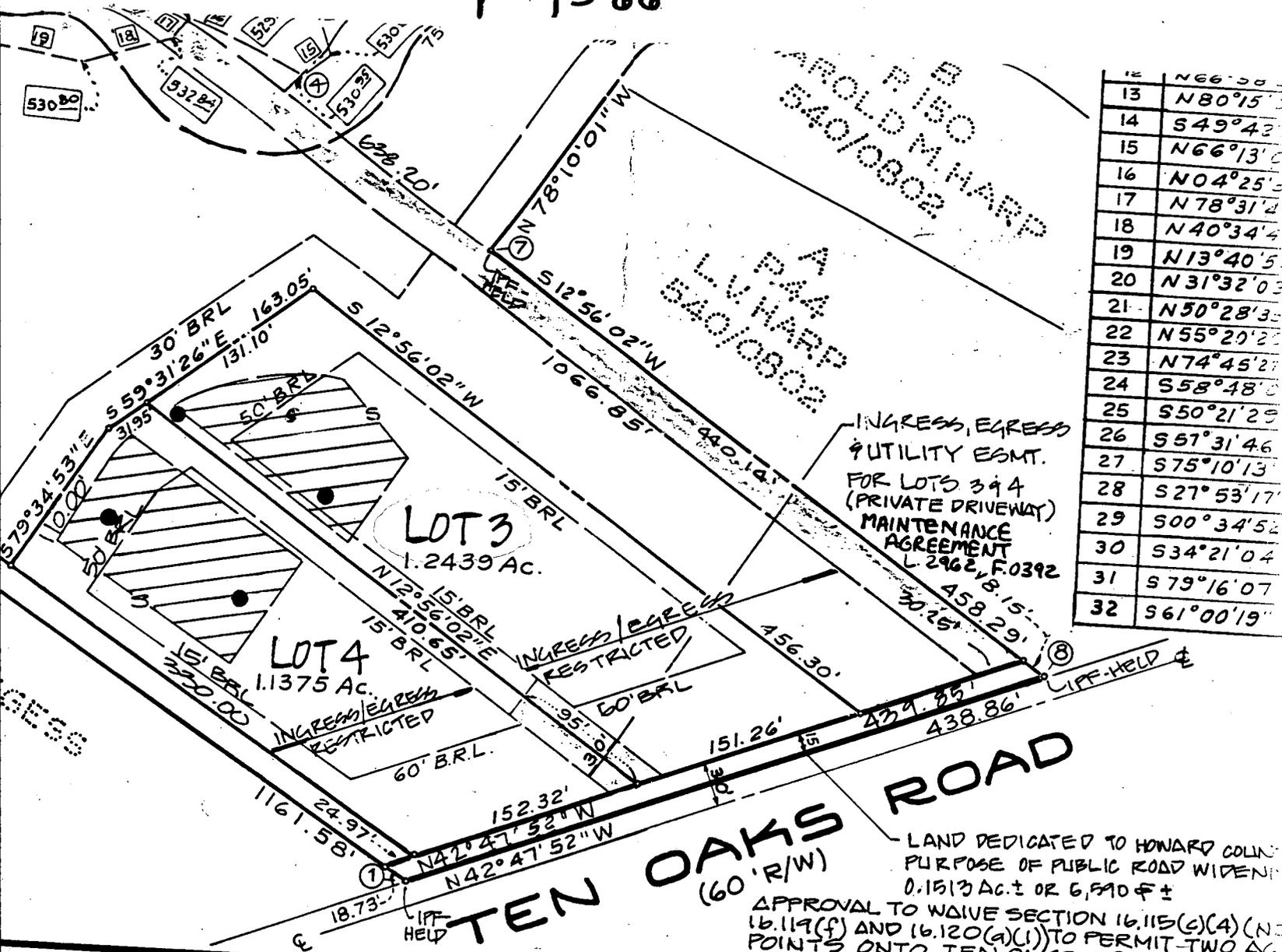
REMARKS ALL HOLES OK

TYPE OF SOIL

TESTED BY D. Bugas / MR

ALSO PRESENT Mr. Sanborn  
 Richard Demmitt  
 Mr. Allen

F-93-66



**SURVEYOR'S CERTIFICATE**

I HEREBY CERTIFY THAT THE FINAL PLAT SHOWN HEREON IS CORRECT; THAT IT IS A SUBDIVISION OF ALL THE LAND CONVEYED BY HENRY C. MARSHALL AND ELIZABETH EMERSON MARSHALL TO JAMES M. SANBORN AND EMILIE S. SANBORN BY DEED DATED JANUARY 1957 AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN LIBER 22 AT FOLIO 411 AND THAT ALL MONUMENTS ARE IN PLACE PRIOR TO THE ACCEPTANCE OF THE STREETS THE SUBDIVISION BY HOWARD COUNTY AS SHOWN, ACCORDANCE WITH THE ANNOTATED CODE OF MARYLAND, AS AMENDED.



1/3/93  
DATE

JEFFERSON D. LAWRENCE  
REG. PROF. LAND SURVEYOR #5216

RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND ON \_\_\_\_\_ AS PLAT NUMBER 10935

**SANBORN PROPERTY**

LOTS 1-4  
TAX MAP: 28 PARCEL: 43  
FIFTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
MARCH 1993 SCALE: 1"=100'  
ZONED: R-R D.C.G. #21-810

**OWNER:**

JAMES SANBORN  
4967 TEN OAKS RD.  
DAYTON, MD. 21036  
410-531-5444

DEVELOPER  
CONSULTANTS GROUP  
17904 GEORGIA  
SUITE 102  
OLNEY, MD. 2  
(301) 924-45

NO ANSWER 10/6/98 10AM

10/7/98 ENGINEER WILL REVISE - SEE FAX

FRANK M STEADMAN ASSOCIATES

6506 Fairbanks Street  
New Carrollton, Maryland 20784-3314  
(301) 552-2116 FAX (301) 552-2679

ENGINEERS

PLANNERS

SURVEYORS

Monday, October 5, 1998

HOWARD COUNTY HEALTH DEPARTMENT  
Bureau of Environmental Health  
3525-H Ellicott Mills Drive  
Ellicott City, Maryland 21043-2648

Attn: Glen Savage

Via Facsimile (410) 313-2648

2 systems by  
GRAVITY -  
STRAIGHTEN LINES  
OUT, PUMP  
2 NO TANK NOW  
GJ

Re: Septic System Design for Lot 3  
Sanborn Property, Ten Oaks Road  
Clarksville, Maryland

Dear Mr. Savage:

We spoke last Friday on the telephone about the above referenced project. You allowed that I could make a revision and FAX it to you today. You said that you would be out of the office today, but that you would return tomorrow.

My concerns about this project from the beginning had been that I felt that the Lot had too small a 'septic recovery area'. It is scaled and plotted from the Record Plat. Anyway, be that as it may, my main problem with this site in laying out the septic system had been the fact that I had to cross a swell with the effluent pipe in order to carry the effluent to the septic recovery area. Grades on the pipe dictated the invert of pipe grades that I would have at the distribution box. Several weeks ago, when you told Steve Malat, the Contractor that you would accept gravity to the first S.R.A. I felt that the problem had been solved. Now, however, after Steve met with you last week, and found out that I had to account for two of the recovery areas by gravity flow, and not just the one, I thought I was committed to the pump system at this time. Your help last Friday is much appreciated.

I submit two pages, one a copy of the center of the newly revised Site Plan, with the pipe system laid out with a minimum of 280 lin. ft. of recovery area for each use: and the other, a profile of the new layout showing the pipe system from the house back to the point where the distribution box delivers the effluent to the drain fields. You will note that the 'tertiary recovery' area is too small. I do not know what to do about that. All I can do is show it.

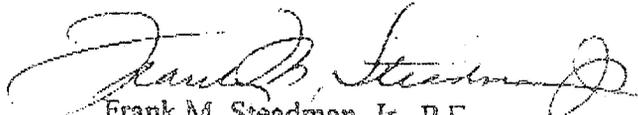
Now, also in our conversation, last Friday, you warned that you wanted 24 hours storage for the future pump, when it was in place. This required that the 'wet well' be another Septic Tank. I have shown it thus. I would like to make a suggestion about this 'wet well'. The present 4" pipe should flow through it from end to end, and remain as just a pipe through the future wet well til such time that the effluent pump has to be installed. In that way, when the time comes, the plumber will be able to make his installation of pump and controls, with conduit over to the house for wiring into the house electrical panel, as he is about to cut the 4" dia pipe and set the new effluent pump in service to convey the effluent to the remaining recovery area through a newly installed 1 1/2" force main.

NO - CORRECT NOW,

I await your comments on this design. I realize that I scrimped and saved with perforated pipes not exactly 3' below the existing grade above; but it was to try to maximize the use of space, to economize the remaining recovery area.

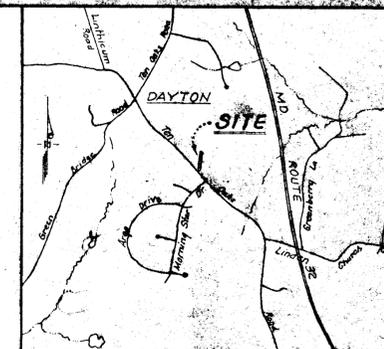
I look forward to your comments.

Very truly yours,



Frank M. Steadman, Jr., P.E.

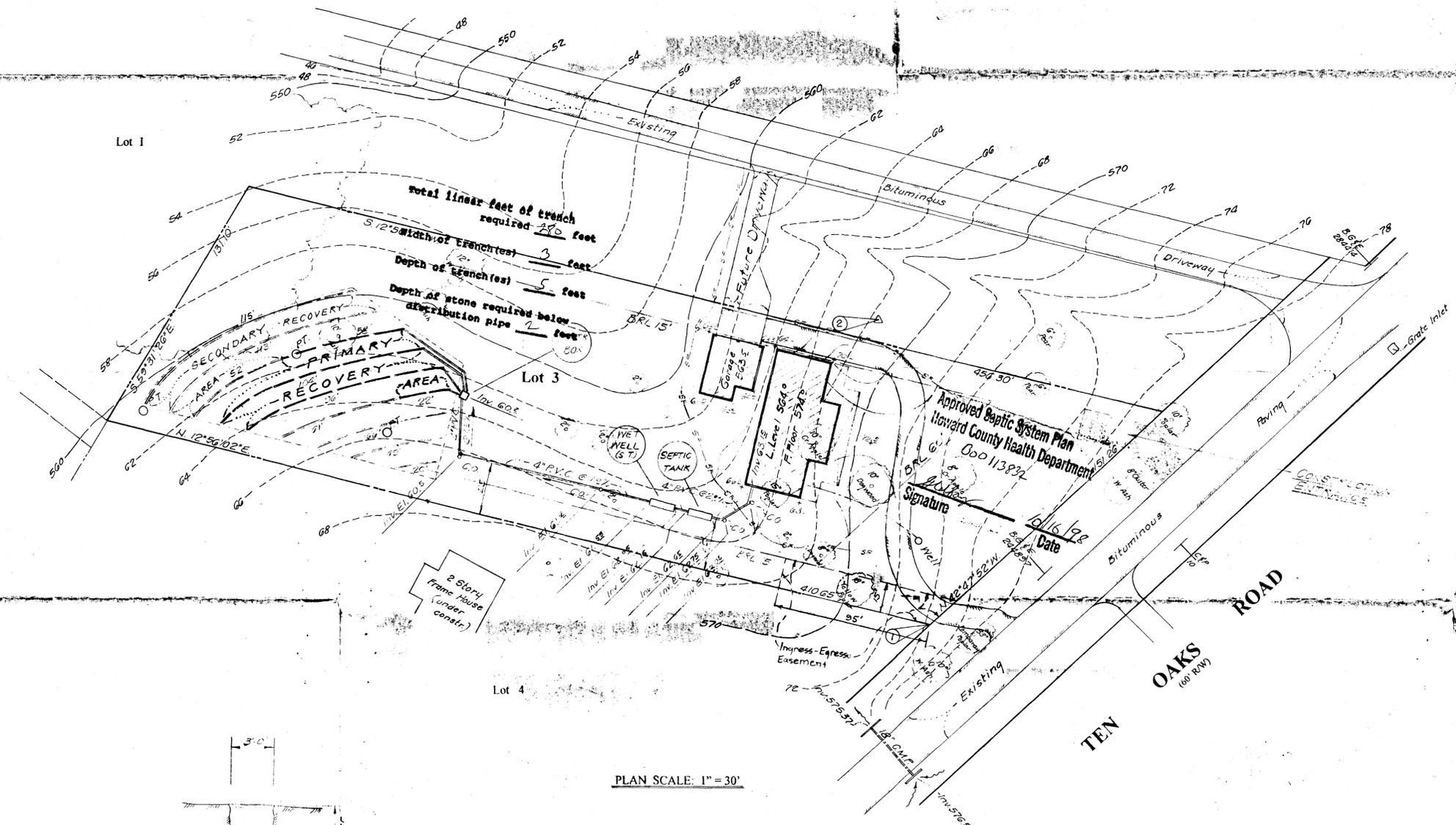
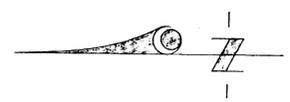
encl:



VICINITY MAP  
Scale: 1" = 2000'

**BENCH MARKS:**

N <sup>o</sup>	Description	Elevation
1	Rebar and Cap (Left Front Property Corner)	574.81
2	Rebar (Traverse Station)	568.16

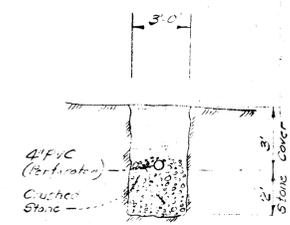


**GENERAL NOTES**

- This Site is classified as follows:
  - A. Recorded Plat, #10935, (dated 9-3-93)
  - B. Property Zoned R-R (9-18-92)
  - C. Water & Sewer Service by Well & Septic System
  - D. Site Vegetation, meadow, (former orchard)
  - E. Site Slopes: SW to NE @ 8%
  - F. Total Lot Area: 1.2439 Ac.
  - G. Total Disturbed Area: 15,000 s.f.
  - H. Proposed Use: Single Family House
- The Topography was field shot in Howard County Datum August 1, 1998.
- No construction may begin until proper permits have been issued.
- Septic System: 4 Bedroom House  
1,500 gal. Septic Tank  
280 lin. ft. septic recovery trench
- Well 'in place' tested and developed.
- All water service piping to be PVC, Schedule 40.
- All sewer piping to be PVC.

Approved Septic System Plan  
Howard County Health Department  
000113877  
Signature: [Signature]  
Date: 10/16/98

PLAN SCALE: 1" = 30'



**LEGEND**

- 572 --- Existing Contour
- Proposed Contour
- +60.2 Prop Spot Elevation
- 5'-0" - 5' Site Fence
- Bench Mark
- Cleanout on Sewer/Septic

Owner:  
Mr. & Mrs. Frederick-Bittner  
P.O. Box 27  
Dayton, Maryland 21036  
(410) 442-2788



**SITE DEVELOPMENT PLAN**  
Lot 3  
**SANBORN PROPERTY**  
Fifth Election District  
**FRANK M STEADMAN ASSOCIATES**  
ENGINEERS PLANNERS SURVEYORS  
6508 Fairbanks Street  
New Carrollton, Maryland 20784-3314  
(301) 552-2116 FAX (301) 552-2679

9.22.98

TAX MAP 28

C1 9789 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE

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

COUNTY NUMBER A-46863

ST/CO USE ONLY DATE RECEIVED 7-14-97

DATE WELL COMPLETED 6-23-97 Depth of Well 340

PERMIT NO. FROM "PERMIT TO DRILL WELL" Ho-94-1196

OWNER Bittner Frederick STREET OR RFD TEN OAKS RD TOWN Dayton SUBDIVISION SAND BORN PROPERTY SECTION LOT 3

WELL LOG Not-required for driven wells

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

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes handwritten entries: Sand (0-38), Gray Mica Rock (38-340), Dry well 400ft. Filled in with Cement & drilling materials.

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) YES [Y] NO [N] TYPE OF GROUTING MATERIAL (Circle one) CEMENT [CM] BENTONITE CLAY [BC] NO. OF BAGS 10 NO. OF POUNDS 940 GALLONS OF WATER 60 DEPTH OF GROUT SEAL (to nearest foot) from 0 to 37

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

MAIN CASING TYPE [ST] Nominal diameter top (main) casing (nearest inch)! 6 Total depth of main casing (nearest foot) 43

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

SCREEN RECORD screen type or open hole [ST] STEEL [BR] BRASS [HO] OPEN HOLE [PL] PLASTIC [OT] OTHER

DEPTH (nearest ft.) table with rows 1-5 and columns 2-7. Includes handwritten values: 110, 41, 340.

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

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

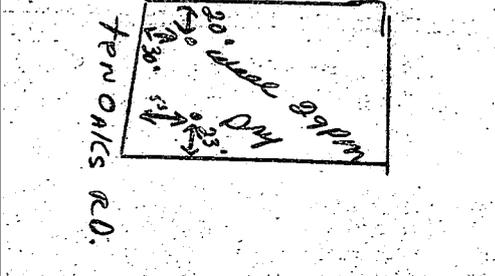
PUMPING TEST

HOURS PUMPED (nearest hour) 6/8-9 PUMPING RATE (gal. per min.) 2 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 38 ft. WHEN PUMPING 306 ft. 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 or NO) YES [X] 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) 31 35 PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box and enter casing height) [+ ] above } LAND SURFACE [- ] below } 2 (nearest foot)

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)



NUMBER OF UNSUCCESSFUL WELLS: 1 WELL HYDROFRACTURED YES [Y] NO [N]

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

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. 1 M-SD024 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)

<b>B 1</b>	<b>9422</b>	SEQUENCE NO. (MDE USE ONLY)	<b>STATE OF MARYLAND PERMIT TO DRILL WELL</b> please print or type	STATE PERMIT NUMBER <b>Ho - 94 - 1196</b> <small>70 fill in this form completely 79</small>
------------	-------------	--------------------------------	---	---

**OWNER INFORMATION**

Date Received (APA) 5/23/97

8 MM DD YY 13

15 Last Name Bittner Owner First Name Frederick 34

36 Street or RFD 615 Soplard Dr. 55

57 Town Crownsville Md. 70 State 21032 72 Zip 76

**B 3 LOCATION OF WELL**

8 COUNTY Howard 21

23 SUBDIVISION Sanborn Property 42

SECTION 44 LOT 3 46 48 50

52 NEAREST TOWN Dayton 71

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

**DRILLER INFORMATION**

Driller's Name Joseph L. Mayne 76 License No. MSD 024 81

Firm Name Joseph L. Mayne Well Drilling

Address 5512 Ridge Rd. Mt. Airy Md. 21771

Signature Joseph L. Mayne 5/23/97 Date

**B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)**

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

11 NEAR WHAT ROAD Ten Oaks Road 30

34 DISTANCE FROM ROAD 50 37 ENTER FT OR MI FT 38 39

TAX MAP: \_\_\_\_\_ BLK: \_\_\_\_\_ PARCEL: \_\_\_\_\_

**B 2 WELL INFORMATION**

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

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500 14 20

**USE FOR WATER (CIRCLE APPROPRIATE BOX)**

HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)

FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

22  INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)

PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE APPROVAL)

TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

**NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL**

COUNTY NAME HOWARD COUNTY NO. A-46863

STATE SIGNATURE \_\_\_\_\_ INSERT S → 41

DATE ISSUED 6/10/97 EXP. DATE 6/10/99

43 MM DD YY 48 CO SIGNATURE \_\_\_\_\_

NORTH GRID 510 000 EAST GRID 805 000 50 55 57 63

APPROXIMATE DEPTH OF WELL 300 FEET 24 28

APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X → 6/23/97

SOURCES OF DRILLING WATER

- WELL
- 
- 

WRITE THE BOX NUMBER FROM THE MAP HERE

E 805 000 000

N 510

**METHOD OF DRILLING (circle one)**

BORED (or Augered) JETTED Jetted & DRIVEN

30 AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)

37 CABLE REVERSE-ROTARY DRIVE-POINT

other \_\_\_\_\_

**REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX)**

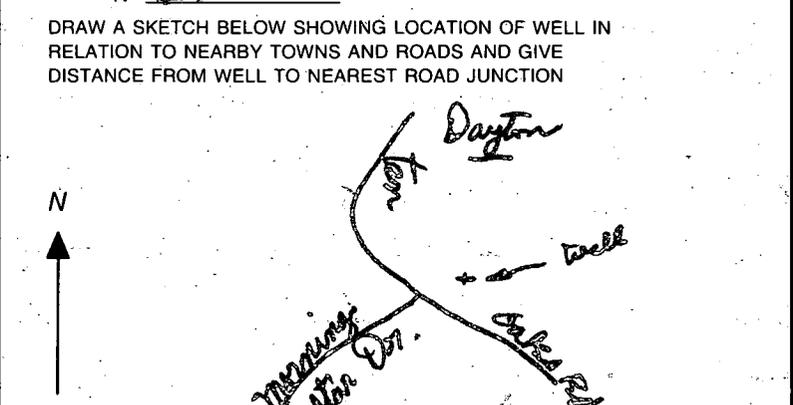
THIS WELL WILL NOT REPLACE AN EXISTING WELL

THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED

39  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 DEEPEIN AN EXISTING WELL

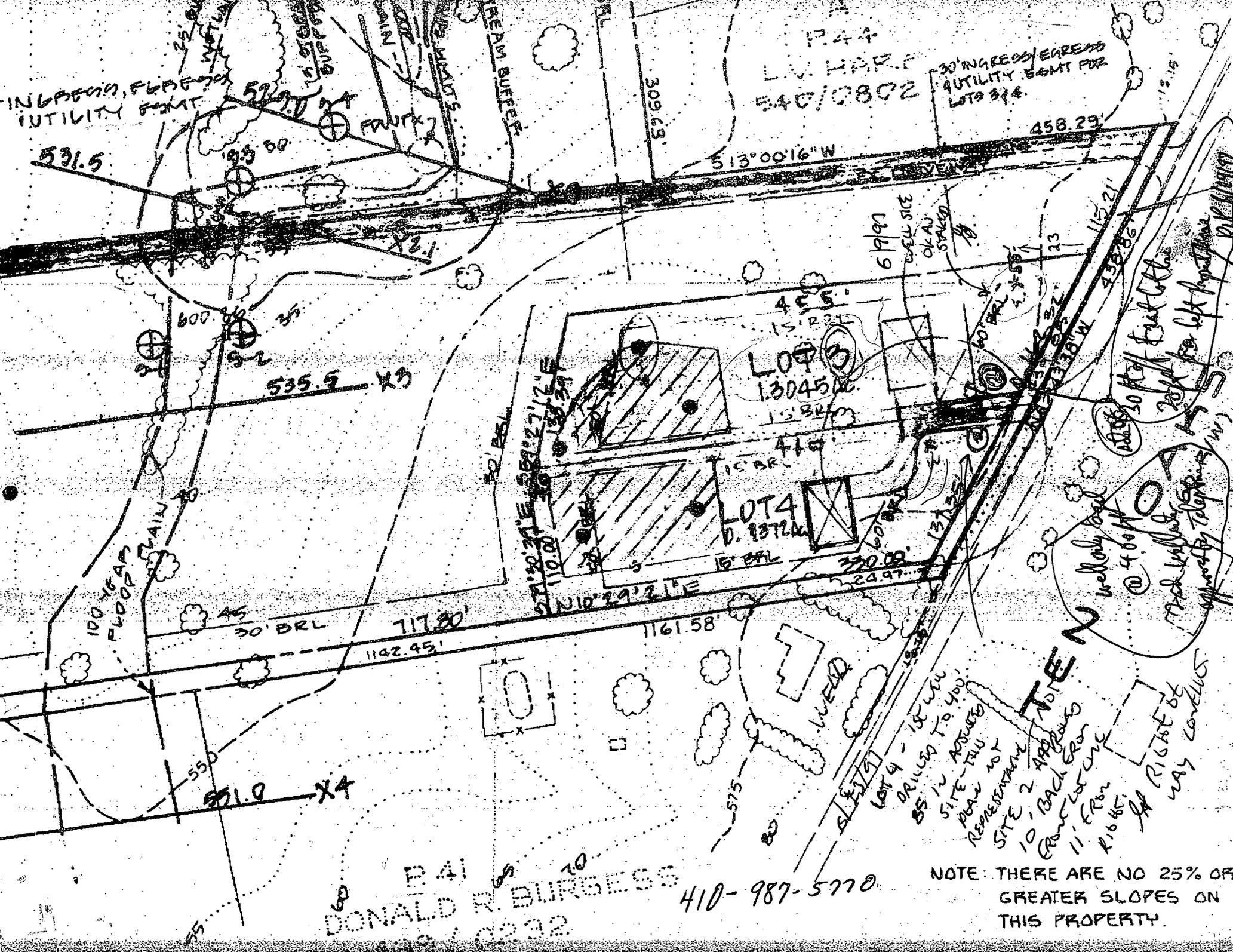
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 \_\_\_\_\_ 52



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

APPROX. PERMIT NUMBER \_\_\_\_\_ G A P \_\_\_\_\_ 54 63

FORCE 65 WRITE INITIALS IN BOX PERMIT No. Ho - 94 - 1196 67 68 70 71 72 73 74 75 76 77 78 79



IN 6' FROM, 6' FROM  
UTILITY FRONT

1744  
L.V. HARRIS  
540/0802

30' W/ACCESS/EGRESS  
UTILITY FRONT FOR  
LOTS 3 & 4.

LOT 3  
13045 SQ. FT.  
15' BRL

LOT 4  
13720 SQ. FT.  
15' BRL

TEN

NOTE:  
LOT 4 - 18' W/ ACCESS  
DRILLED TO 400'  
SITE IN ADJACENT  
PGAW TALL  
REDEVELOPMENT  
SITE 2 APPROX  
10' BACK FROM  
FRONT LOT LINE  
11' FROM  
R160C.

NOTE:  
RIGHT OF  
WAY CONDUIT

RAI  
DONALD R. BURGESS  
540/0802

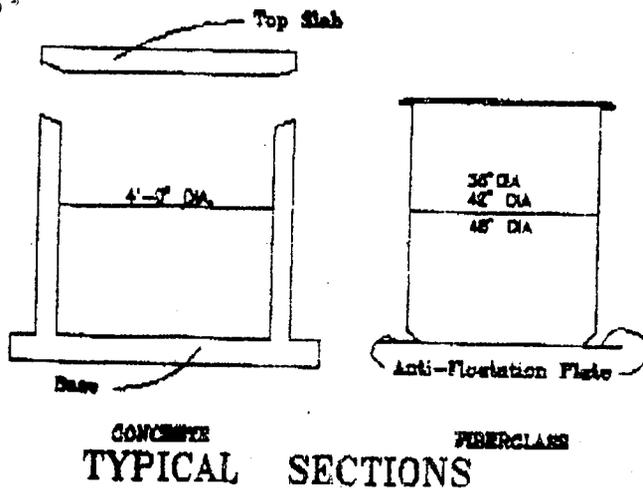
410-987-5770

NOTE: THERE ARE NO 25% OR  
GREATER SLOPES ON  
THIS PROPERTY.

30' W/ ACCESS/EGRESS  
UTILITY FRONT FOR  
LOTS 3 & 4.

NOTE:  
RIGHT OF  
WAY CONDUIT

## FUTURE WET WELL



**TYPICAL SECTIONS**

Saturday, September 26, 1998

Stephen Melat,

The above is a quick detail for the "FUTURE WET WELL" that is shown on the Site Plan for the **Bittner Site (Lot 3, Sanborn Property)**. I suspect that the Howard County Health Department will want to have some idea as to how we are going to install **NOW**, the new well and still pass the effluent pipe from the Septic Tank to the Distribution Box at the drain field.

The smallest that the Concrete Wet Wells are made, is 48" in dia. The Fiberglass wells (provided by these pump manufacturers) come in sizes from 36" dia., to 42" dia., to 48" dia. See Typical Sections above.

As I envision it, the 4" dia. PVC pipe will pass through the wet well, from side to side, (utilizing the invert elevations shown on the plan). It will be just a little bit of drilling in the wet well walls, to accommodate the installation.

If they want the pump system designed for this approval, I would be happy to do the design. I only showed the fundamental items for each type. The Concrete is the Pre-cast 4' deep manhole, manufactured and supplied by many local concrete pipe manufacturers. It comes with its own concrete top slab. The Fiberglass would require that a concrete **Anti-Floatation** slab of concrete be poured around the base. AND, I would specify a certain supplier and size for you.

Please let me know if there are any questions or serious comments when you meet with that Health Department People. I will revise as necessary.