

10/22/90 noon

03-314278

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 46674

A 38308

DISTRICT 3rd

DATE 12/10/90

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
461-9933

DATE SYSTEM APPROVED 10-22-90

INSPECTOR JEN

INDEXED

Jack Fyock IS PERMITTED TO INSTALL 2 ALTER

ADDRESS _____ PHONE 988-9270

SUBDIVISION Saunders Property LOT 2 ROAD 12113 Frederick Road

PROPERTY OWNER Michael E. Saunders

ADDRESS _____

SEPTIC TANK CAPACITY 1000 GALLONS

NUMBER OF BEDROOMS 3

210 SQUARE FEET PER BEDROOM

$\begin{array}{r} 210 \\ 3 \\ \hline 630 \end{array}$	$\begin{array}{r} 140 \\ 2 \\ \hline 280 \end{array}$	$\begin{array}{r} 140 \\ 4.5 \\ \hline 630 \\ 45 \\ \hline 180 \\ 180 \end{array}$	$\begin{array}{r} 140 \\ 4.5 \\ \hline 700 \\ 560 \\ \hline 630 \end{array}$
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LINEAR FEET OF TRENCH REQUIRED 210 140 JEN 10-22-90

TRENCHES - 210 sq. ft. per bedroom. Trench to be 2 feet wide. Inlet 3 1/2 feet below original grade. Bottom maximum depth 8 feet below original grade. Effective area begins at 3 1/2 feet below original grade. 4 1/2 feet of stone below distribution pipe.

LOCATION - Place the distribution box 190 feet from the back line and 210 feet from the right side of the lot as seen when facing the lot from the Right-of-Way entrance. Run the trenches on contour toward the left lot line.

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

PLANS APPROVED BY Raymond Hodges cm DATE 08/09/90

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

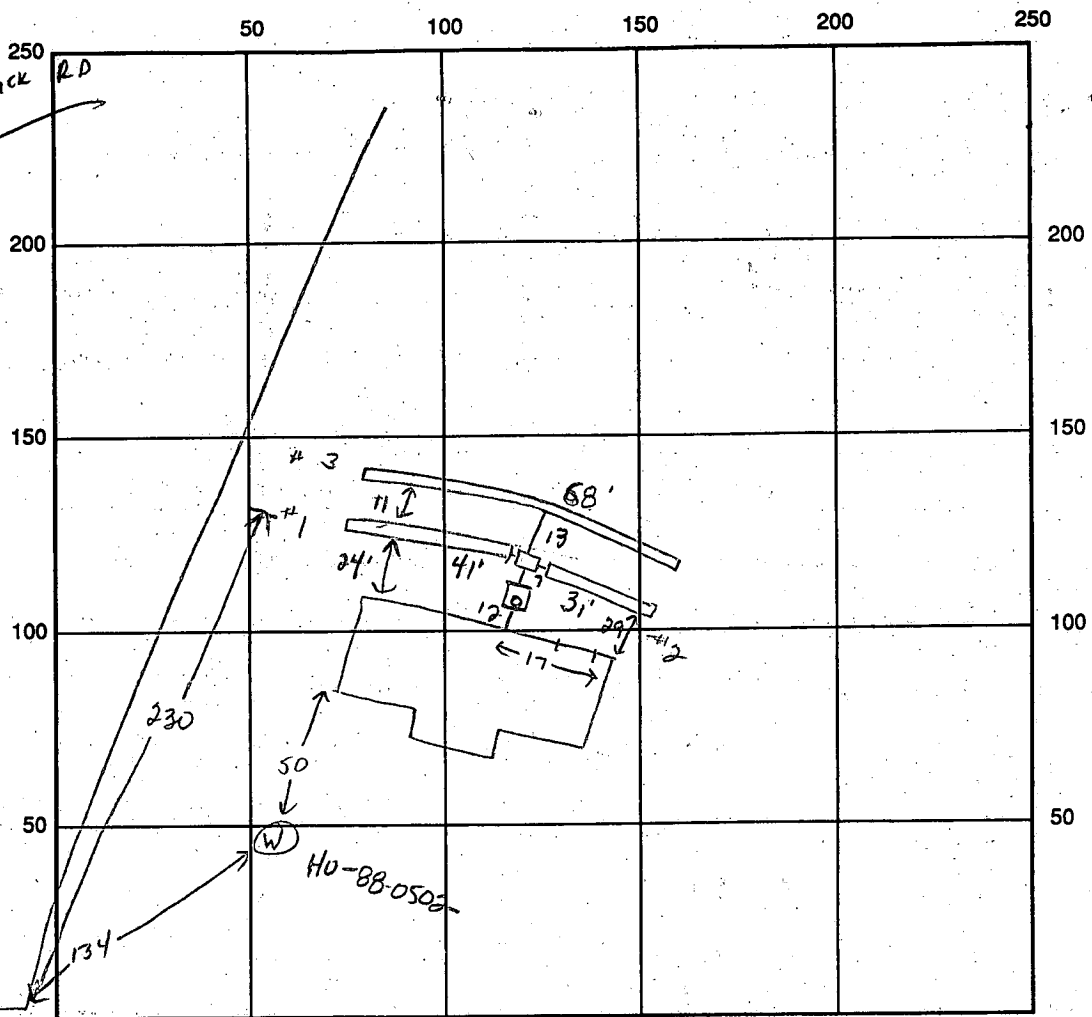
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON. CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET. MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

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

AS 38308

File # FA 35308
12113 FREDENICK RD



SEPTIC TANK LEVEL 1000 gal CLEANOUTS 1 on septic tank
 DISTRIBUTION BOX LEVEL ok w/ baffle
 DRAIN FIELD/TITLE DEPTH ① ② ③ TRENCH WIDTH 2 FT. INLET DEPTH ① ② ③
③ ② ① FT. ① ② ③ 2.5 2.5 FT.
 EFFECTIVE GRAVEL DEPTH ① ② ③ TOTAL LENGTH ① ② ③
5 5.5 5 FT. 41 31 67 FT.
 NUMBER OF TRENCHES 3 ONE SIDEWALL BOTTOM AREA ① ② ③
205 170 335 SQ. FT.
 DRYWALL INSIDE DIAMETER _____ FT. EFFECTIVE DEPTH BELOW INLET _____ FT.

ABSORBENT AREA 710 SQ. FT.

REMARKS: 10-22-90 OK to stone last trench & cover all work JEN

DATE SYSTEM APPROVED 10-19-90 INSPECTOR Jane E. Madenan

Preliminary
8/2/87
11:30 PM
Allen with [unclear]

APPLICATION

PERCOLATION TESTING

A 38308
P _____

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

*4275
perc and [unclear]
perc approved [unclear]*

DISTRICT _____
DATE 12/22/86

*ok to process. SA
owner notified 1/19/87*

topography disagrees with field sheet

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 WILLIAM E. SAUNDERS ✓ Michael E Saunders

ADDRESS 12097 FREDERICK Rd., ELLICOTT CITY, Md. PHONE 988-9266

PROSPECTIVE BUYER N/A

ADDRESS _____ PHONE AJ

PROPERTY LOCATION:

SUBDIVISION SAUNDERS PROPERTY LOT NO. _____

ROAD AND DESCRIPTION 12097 FREDERICK Rd., SOUTH/WEST OF SANDHILL Rd.

TAX MAP 16 PARCEL # 29

SIZE OF LOT 3 ACRES 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. William E. Saunders
(SIGNATURE OF APPLICANT)

APPROVED BY [Signature] FOR Deputy DATE 5-24-89

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING for field located holes

BUDG. PERMIT SIGNED AND RETURNED 8/15/87
Serial # 34320 - SFD

BUDG. PERMIT SIGNED AND RETURNED 5/21/89
8/26/87

THIS IS NOT A PERMIT

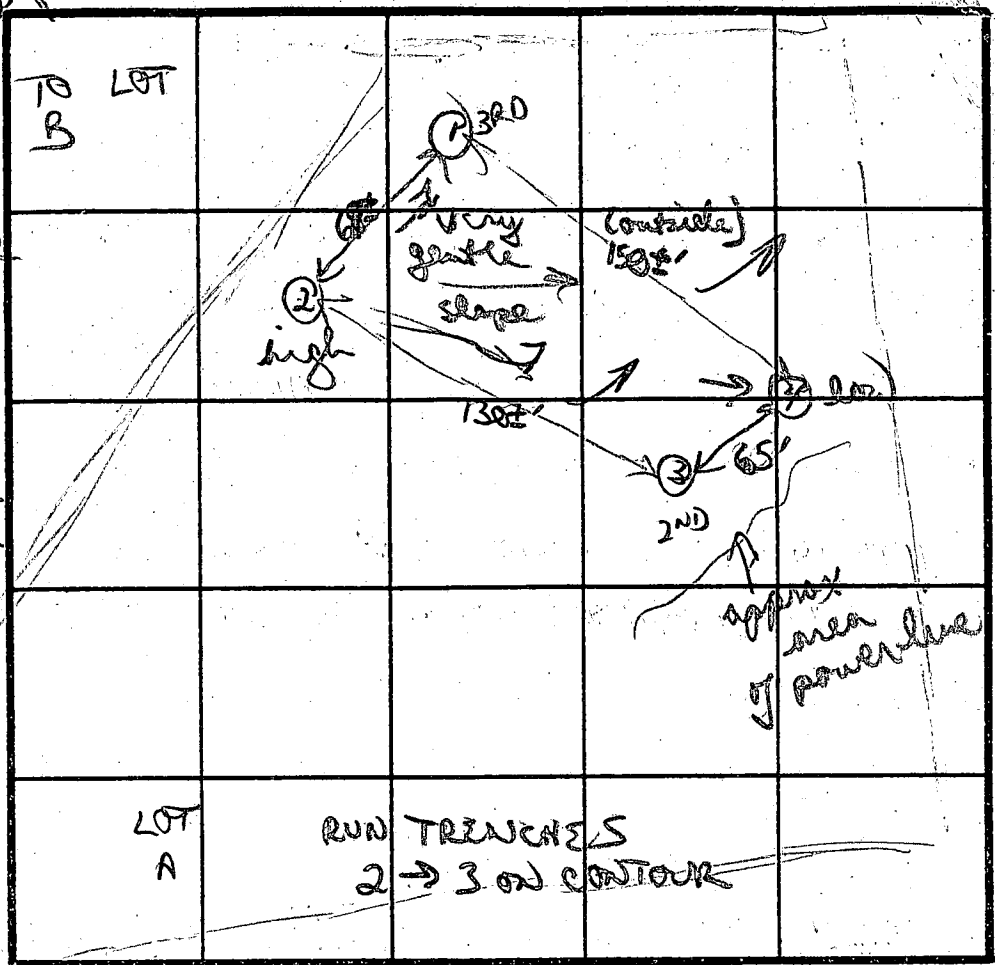
WET 3 1/2
 MAX D 8'
 X = 10 MIN

177/150 DR 210 ppg/150

③ ④
 SOIL PROFILE

0
 brown/orange
 silty clay
 micaceous
 loam 3 1/2'
 to powdery
 tan brown
 silty micaceous
 loam
 ↓

12
 TO RTE 144



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

④

④
 brown/orange
 clay silty loam
 3'
 to tan/orange
 brown silty
 micaceous
 loam
 w/ 15% small
 frags separate
 7 1/2"
 12'D

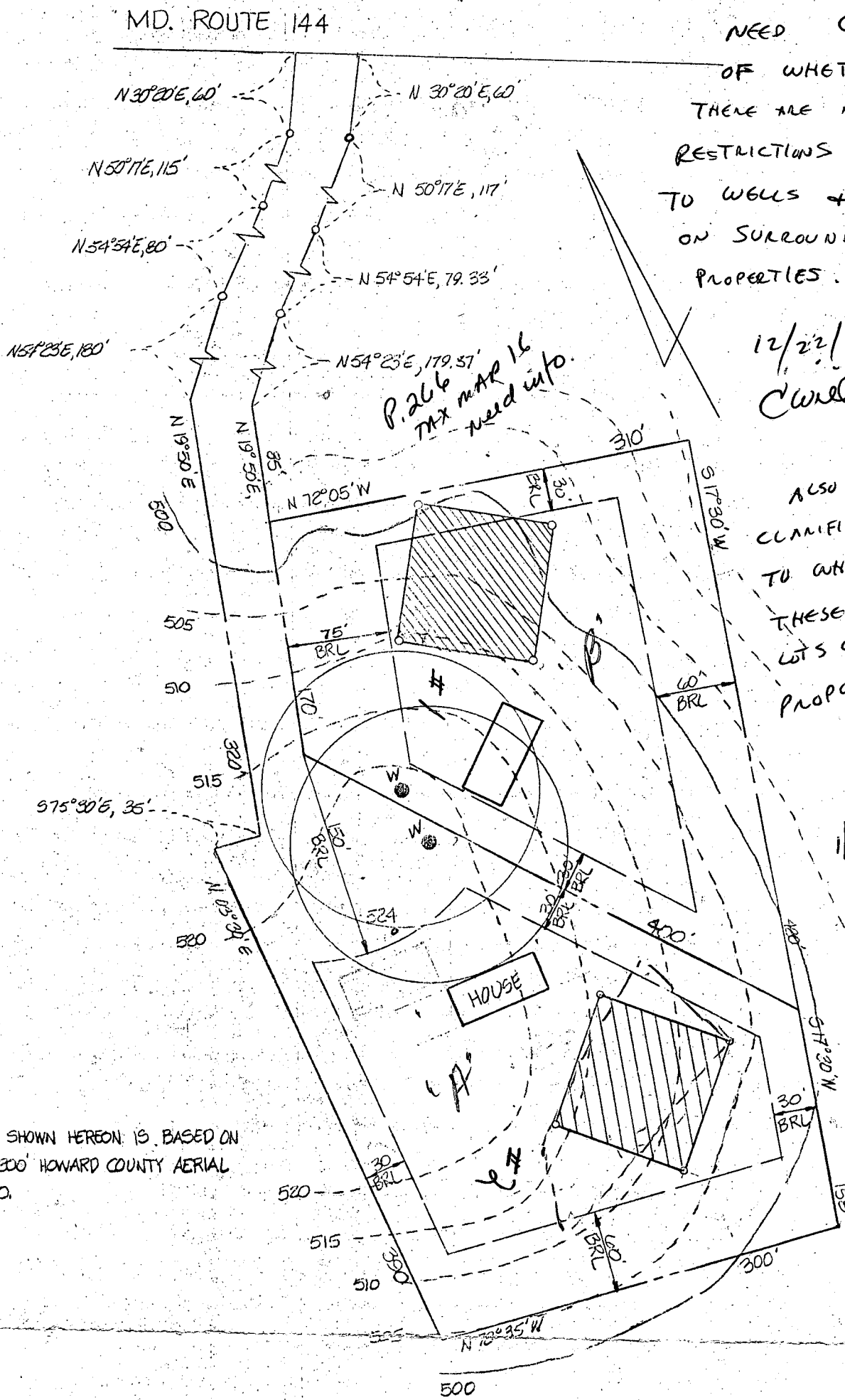
②
 brown/orange
 silty clay
 loam 3'

to brown/tan
 silty micaceous
 loam w/
 5-10% small
 frags 4 1/2'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
2/2/87	③	3'S	146	201	201	229	28 MIN	
		12'D	bottom (see profile)					
	④	3'S	148	156	156	211	15 MIN	
		8'M	211	213	213	219	6 MIN	
		12'D	bottom (see profile)					
	①	3 1/2'S	233	235	235	238	3 MIN	
		12'D	bottom (see profile)					
	②	3 1/2'S	228	231	231	236	5 MIN	
		7 1/2'M	227	228	228	232	4 MIN	
		11 1/2'D	bottom (see profile)					

TEST
 EITHER IF
 SLIGHTLY
 DEEPER

REMARKS: perc field adjusted for that shown on plat
 TYPE OF SOIL: fairly uniform silty clay loam top 3' to tan brown silty micaceous loam
 TESTED BY: B. N. Ryan
 ALSO PRESENT:



NEED CONFIRMATION
OF WHETHER OR NOT
THERE ARE ANY SITE
RESTRICTIONS DUE TO
WELLS & SEPTICS
ON SURROUNDING
PROPERTIES.

12/22/86
C. Williams

ALSO NEED
CLARIFICATION AS
TO WHETHER OR NOT
THESE ARE EXISTING
LOTS OR ARE FOR
PROPOSED SUBDIVISION.

12/22/86
C. Williams

1/17/87
proposed
subdivision
of 1.3 Ac. Parcel

Remainder of
Acres to be
included into
original survey.

TOPO SHOWN HEREON IS BASED ON
1"=200' HOWARD COUNTY AERIAL
TOPO.

TITLE: PERC TEST PLAT				
PROJECT: SAUNDERS PROPERTY				
LOCATION: 3RD ELECTION DISTRICT HOWARD CO., MD.				
SCALE: 1"=100'	DESIGNED BY: JTN	DRAWN BY: JTN	CHECKED BY: DR	DATE: FEB, 1986
FIELD BOOK:	PAGE NO.:	JOB NO.: 84290	DRAWING NO.: 1 OF 1	

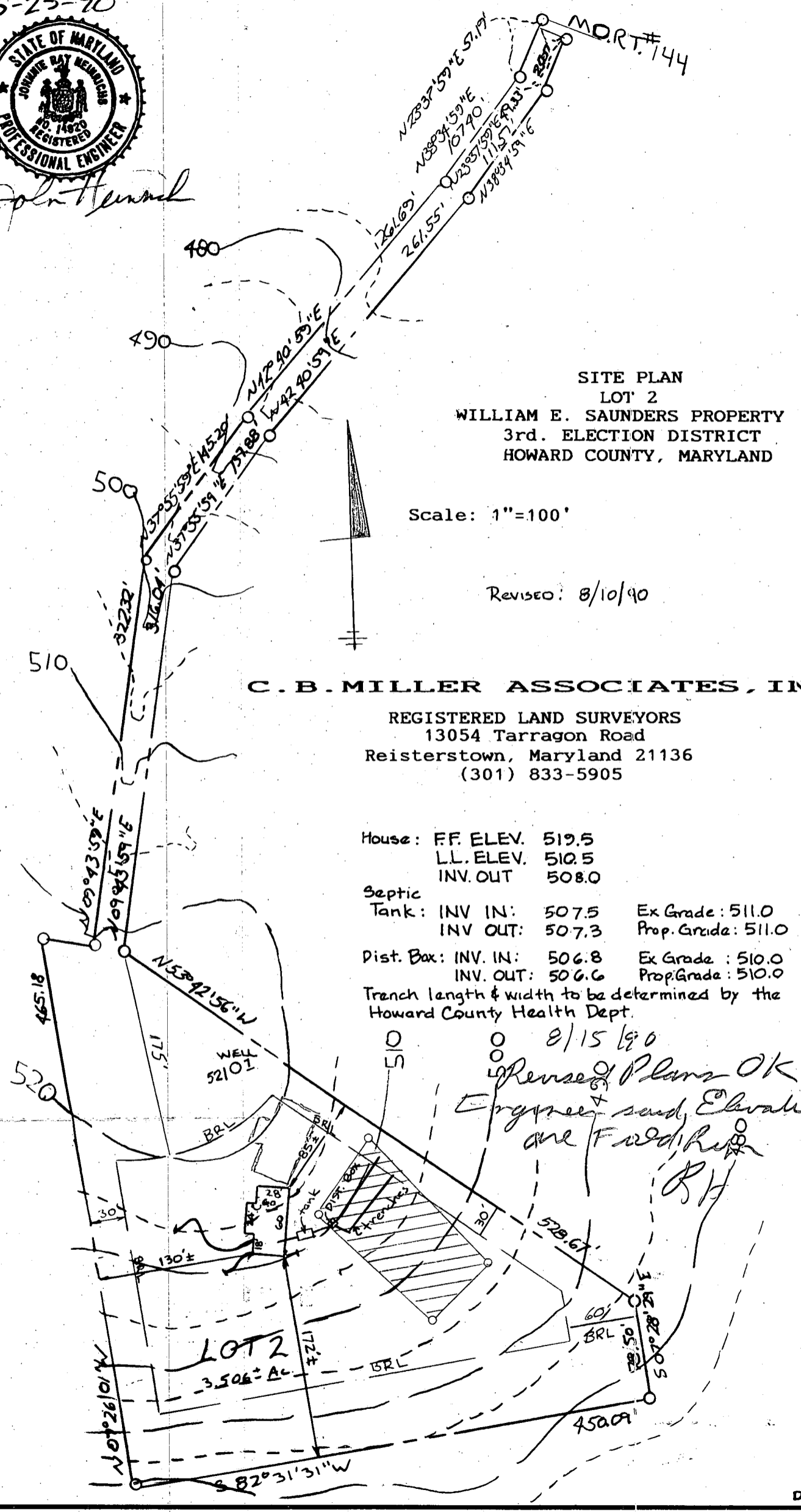
boender associates
inc.
consulting engineers
land surveyors
land planners

COURTHOUSE SQUARE
3565 ELLICOTT MILLS DRIVE
ELLICOTT CITY, MD. 21043
13011 465-7777

6-25-90



John Henschel



SITE PLAN
LOT 2
WILLIAM E. SAUNDERS PROPERTY
3rd. ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

Scale: 1"=100'

Revised: 8/10/90

C. B. MILLER ASSOCIATES, INC

REGISTERED LAND SURVEYORS
13054 Tarragon Road
Reisterstown, Maryland 21136
(301) 833-5905

House: FF. ELEV. 519.5
LL. ELEV. 510.5
INV. OUT 508.0

Septic Tank: INV IN: 507.5 Ex Grade: 511.0
INV OUT: 507.3 Prop. Grade: 511.0

Dist. Box: INV. IN: 506.8 Ex Grade: 510.0
INV. OUT: 506.6 Prop. Grade: 510.0

Trench length & width to be determined by the Howard County Health Dept.

8/15/90
*Revised Plans OK
Engineer's and Elevation
are Filled in
RH*

B 1 1174 SEQUENCE NO. (DP USE ONLY)
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

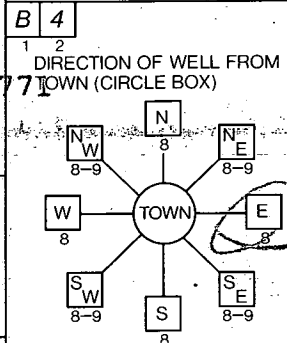
STATE OF MARYLAND PERMIT TO DRILL WELL
please print or type

STATE PERMIT NUMBER
40-88-0502
fill in this form completely

Date Received (APA) 030389
OWNER INFORMATION
J Spangler, Michael
12101 Friedrick Rd
West Friends Sh Md 21794

B 3 LOCATION OF WELL R-43821
Howard
8 COUNTY
WEST FRIENDSHIP
52 NEAREST TOWN
MILES FROM TOWN (enter 0 if in town) MI

DRILLER INFORMATION
George F. Easterday
Driller's Name L. Franklin Easterday, Inc.
Firm Name
9265 Brown Church Rd Mt. Airy, Md. 21771
Address
Signature Date



B 4
DIRECTION OF WELL FROM TOWN (CIRCLE BOX)
NEAR WHAT ROAD off 144
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
DISTANCE FROM ROAD
ENTER FT OR MI

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

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard A38308
COUNTY NAME COUNTY NO.
STATE SIGNATURE DATE ISSUED
Mark E. Peltin 9/21/89
NORTH GRID EAST GRID

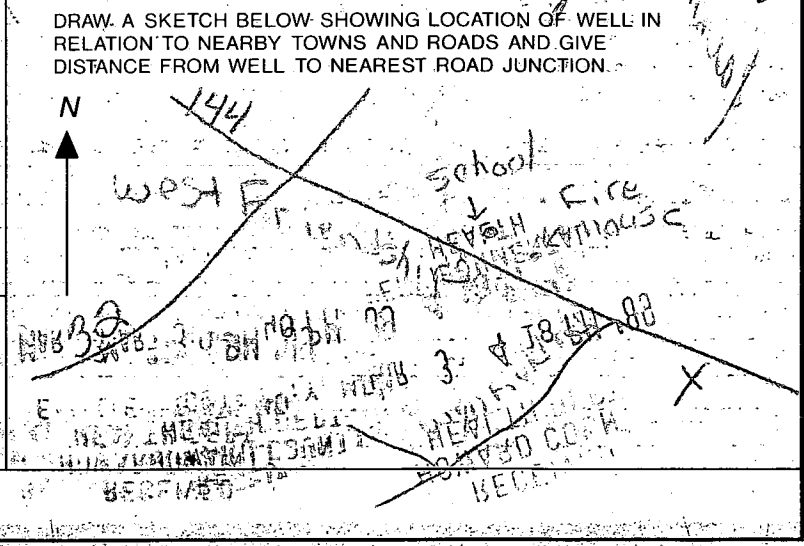
- USE FOR WATER (CIRCLE APPROPRIATE BOX)
- HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)
 - FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
 - INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)
 - PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND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

APPROXIMATE DEPTH OF WELL 200 FEET
APPROXIMATE DIAMETER OF WELL 6 INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X
SOURCES OF DRILLING WATER
1. well
2.
3.
WRITE THE BOX NUMBER FROM THE MAP HERE
819
532

4/28 - G routed
15 bags of cement
45' Well ground - open
46' casing/well
1 1/2' casing above ground. of old
(✓ Tap on - C. Bd.)

METHOD OF DRILLING (circle one)
BORED (or Augered) JETTED Jetted & DRIVEN
AIR-ROtary AIR-REcussion 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
D 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 PERMIT No. 40-88-0502

SPECIAL CONDITIONS

C1 2366

SEQUENCE NO. (DENV USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

COUNTY NUMBER A 38308

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

DATE Received

DATE WELL COMPLETED 040404

Depth of Well 22 340 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HD-28-0502

OWNER: Saunders Prop (last name) Michael (first name) STREET OR RFD: Frederick Rd TOWN: West Friendship SUBDIVISION: Saunders Prop SECTION: LOT 2

WELL LOG table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), Check if water bearing. Includes entries for Top Soil, BR. mica, GRAY mica, K. mica, WATER MICA.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL: CEMENT (CM), BENTONITE CLAY (BC), NO. OF BAGS: 15, NO. OF POUNDS: 1500, GALLONS OF WATER: 75, DEPTH OF GROUT SEAL: from 0 to 45 ft.

CASING RECORD: casing types (ST, CO, PL, OT), MAIN CASING TYPE: ST, Nominal diameter: 16, Total depth of main casing: 96.

OTHER CASING (if used) section with diameter and depth fields.

SCREEN RECORD: screen type (ST, BR, HO, PL, OT), SLOT SIZE 1, 2, 3, DIAMETER OF SCREEN: 56 to 60.

DEPTH (nearest ft.) table with rows for EACH CASING and EACH SCREEN.

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 10.17.13 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS IDENT. NO. 40

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

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

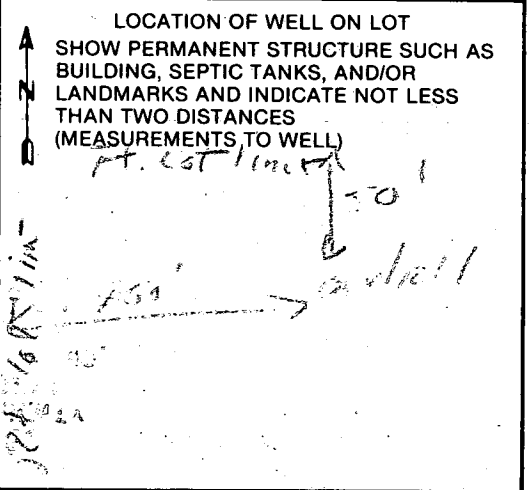
GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.), WQ (74, 75, 76)

TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST: HOURS PUMPED (7), PUMPING RATE (10), METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL (19), WHEN PUMPING (1:55), TYPE OF PUMP USED (S submersible)

PUMP INSTALLED: DRILLER WILL INSTALL PUMP (NO), TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O), CAPACITY: GALLONS PER MINUTE, PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT (+ above, - below)



HOWARD COUNTY HEALTH DEPARTMENT
Bureau of Environmental Health
3525-H Ellicott Mills Drive
Ellicott City, MD 21043
461-9933

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

New Installation X
Replacement _____

Receipt # 46526
Date 10/24/00

Name of Installer FEAGA P/Bo Htg

Telephone 442-5729

License Number 6318
Certified Well Pump Installer _____

Well Driller _____ Registered Plumber X

Name of Property Owner MICHAEL SANDERS

Telephone _____

Subdivision _____ Lot # 2

Well Tag # HO-88-0502

Site Address 12113 FREDERICK Rd

Pump

- Type
 - Deep well jet _____
 - Shallow well jet _____
 - Submersible X
- Make Goulds
- Model # _____
- Capacity 5 GPM
- Pump exceeds well capacity Yes _____ No X
- If Yes, is low pressure cutoff switch installed? Yes _____ No _____
- What methods are used to protect the pump and electrical wiring from vibrations? Torque arrestors _____ Cable guards _____ Other X

Motor

- Horsepower 1/2
- RPM 3450
- Voltage _____
 - 110 _____
 - 220 X

Pitless Adapter

- Make _____
- Model # _____
- Depth _____

Tank

- Capacity 42
- Pressure relief valve? YES

Piping

- Type PLASTIC
- Size 1/2"
- NSF and/or BOCA Code approved _____
- Depth of supply line _____

Well data

- Depth _____ ft.
- Yield _____ GPM
- Static water level _____ ft.
- Will water supply be disinfected by installer? _____

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: *Henry Seay*

Date: 10/24/00

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