

LAYOUT _____ INSP 4 _____
 INSP 2 7/5/05 INSP 5 _____
 INSP 3 11.3 INSP 6 _____

ISSUE DATE: 6/7/05

P 522522

APPROVAL DATE: 7/6/05

A 40113

**PERMIT
 INDEXED
 TAX ID #04-350421**

**ON-SITE SEWAGE DISPOSAL SYSTEM
 HOWARD COUNTY HEALTH DEPARTMENT
 BUREAU OF ENVIRONMENTAL HEALTH**

South Carroll Backhoe, Inc. IS PERMITTED TO INSTALL ALTER

ADDRESS: 4410 Salem Bottom Rd., Westminster 21159 PHONE NUMBER: 410-596-3618

SUBDIVISION: Quail Meadow LOT NUMBER: 18

ADDRESS: 16613 Bahner Court PROPERTY OWNER: John Luddy

SEPTIC TANK CAPACITY (GALLONS): 1500 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): n/a COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 5 w/adding
 2 new
 bedrooms

SQUARE FEET PER BEDROOM: 180

LINEAR FEET OF TRENCH REQUIRED: 213 HOUSE SERVED BY PUBLIC WATER

TRENCHES:	Trench to be 3.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 5.5 feet below original grade. Effective area begins at 4.0 feet below original grade. 1.5 feet of stone below distribution pipe.
LOCATION:	Pump and collapse old septic tank. Install new 1500 gallon septic tank, placement to be determined at inspection. Add 40 feet of trench, for total of 213 feet.
NOTES:	Purpose of upgrade is in support of a building permit addition for two additional bedrooms.

PLANS APPROVED: Peter A. Yencsik Reviewed by: _____ DATE: 6/7/05

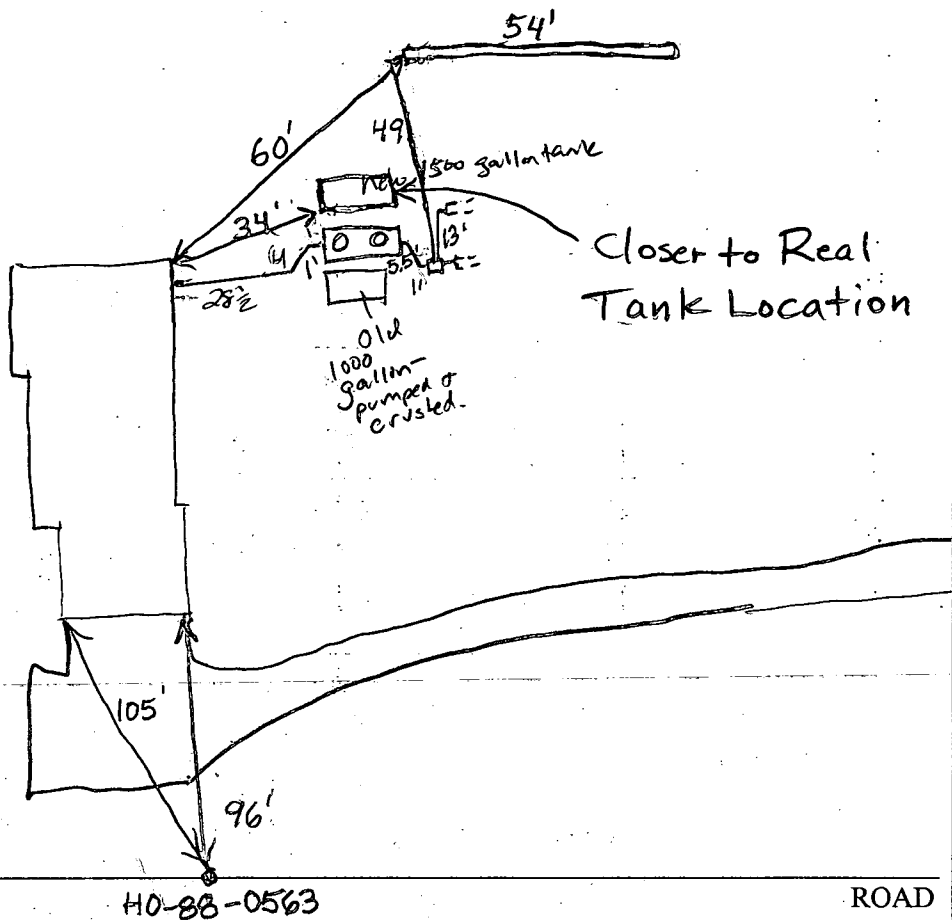
NOTES: PERMIT VOID AFTER 2 YEARS
 CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
 WATERTIGHT SEPTIC TANKS REQUIRED
 ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED
 MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED
 CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS PERMIT

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS
 RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM
 PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT
 BUILDING PERMIT SIGNED -313-1771 FOR INSPECTION OF SEPTIC SYSTEM**

AND RETURNED
7/7/05 BOD/55083 - FINISH Basement

A40113

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'-4.5'	5.5'-6'
NUMBER OF TRENCHES 1		
TOTAL LENGTH 54'		
ABSORPTION AREA 162' Sidewall		
DISTRIBUTION BOX LEVEL Yes		
DISTRIBUTION BOX BAFFLE Yes		
DISTRIBUTION BOX PORT No		

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	<input checked="" type="checkbox"/>
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	4-4.5
BAFFLES	<input checked="" type="checkbox"/>
BAFFLE FILTER	No
MANHOLE LOC	2
6" PORT LOC	None
WATERTIGHT TEST	No
SEPTIC TANK 2 LEVEL	N/A
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	

PRE-CONSTRUCTION

INSTALLATION 7/1 1500 gallon tank 3 1/2' below grade. / O.K. to
 leave. Reminded Contractor next time to use traffic
 Bearing Bid below 3 (PAY) OK to cover tank. 7/5/05 Tank being
 re-set. contractor did not make fall to tank. (GAC) 7/6/05
 Trench done but somewhat off contour and running
 uphill. Near end approximately 6" deeper. Tank will
 be 4'-4.5' below grade after it is covered. Told installer
 to peep trenches on contour and about tank being too deep. (BB)

FINAL INSPECTOR B. Baker

DATE OF APPROVAL 7/6/05

20/8/92

350421

① P.C.O. 10/8/92
C.B.S.

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 48311

A 40113

DISTRICT 4th

DATE 9/30/92

DATE SYSTEM APPROVED 10/9/92

INSPECTOR [Signature]

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
461-9933

INDEXED

Frall Developers, Inc. IS PERMITTED TO INSTALL X ALTER

ADDRESS P. O. Box 659, Mt. Airy, Maryland 21771 PHONE 795-1866

SUBDIVISION Quail Meadow LOT 18 ROAD 16613 Bahner Court

PROPERTY OWNER Frall Developers, Inc.

ADDRESS _____

SEPTIC TANK CAPACITY 1000 GALLONS

NUMBER OF BEDROOMS 3

180 SQUARE FEET PER BEDROOM 540 sq. ft. for 3 bedrooms.

LINEAR FEET OF TRENCH REQUIRED 180 linear ft. for 3 bedrooms.

TRENCHES - 180 sq. ft. per bedroom. Trench to be ^{4.0}3 feet wide. Inlet ~~3.5~~ feet below original grade. Bottom maximum depth ^{5.5}5.5 feet below original grade. Effective area begins at ~~3.5~~ feet below original grade. -1.5 feet of stone below distribution pipe.

LOCATION - Starting from right front lot corner on cul-de-sac, start the first trench 200' down the right (500.60') lot line and 110' off this same lot line. Run trenches in both directions along contours.

NOTE - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. OK 6/10/91 RIF OK 6/10/92 RIF

CHANGES MADE FOR BASEMENT SERVICE MR 9/8/92 9230

PLANS APPROVED BY Mark Rifkin cm DATE 04/26/91

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

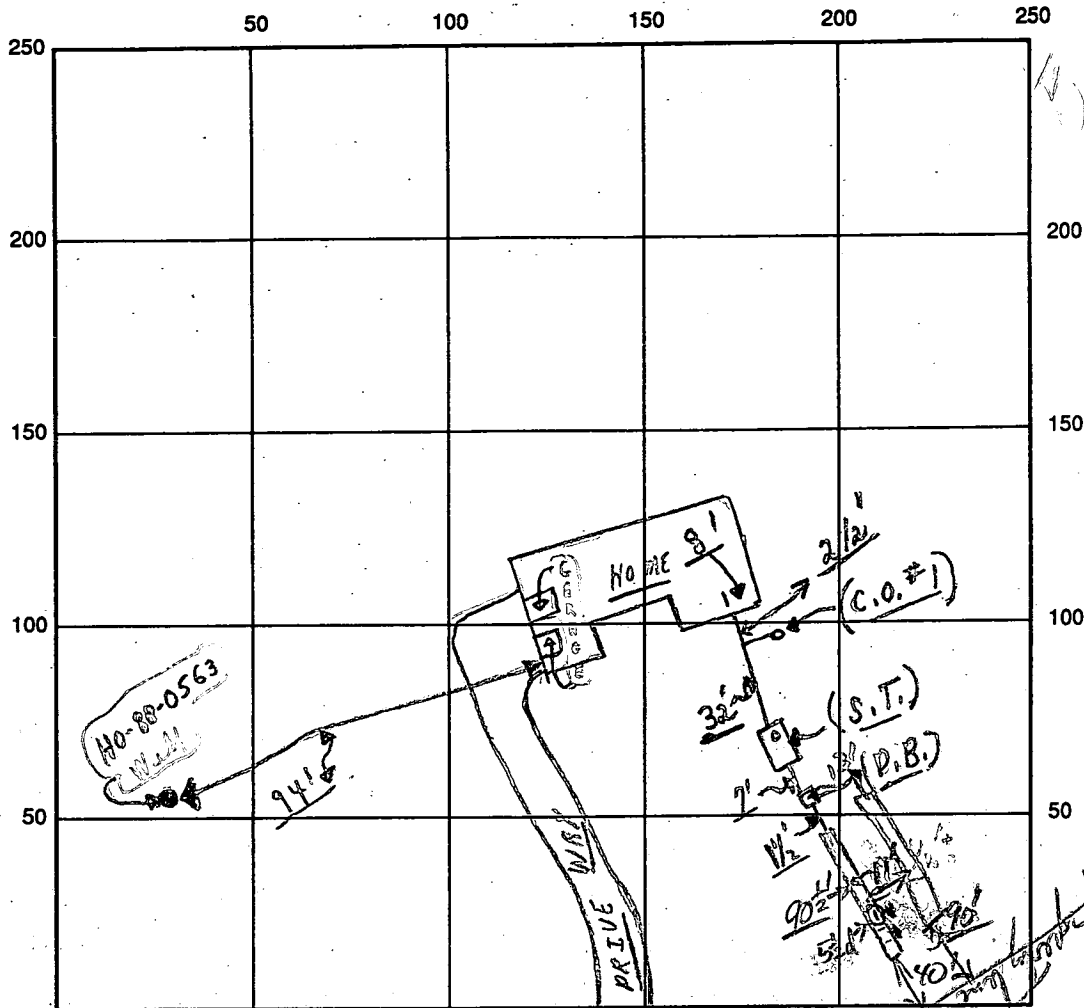
PERMIT VOID AFTER TWO YEARS

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

A 40113



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL OK CLEANOUTS S.T. / C.O. #1
OK OK

DISTRIBUTION BOX LEVEL OK (Baffle in) Needs cement

DRAIN FIELD/TITLE DEPTH 5.5 FT. TRENCH WIDTH 3 FT. INLET DEPTH 4 FT.

EFFECTIVE GRAVEL DEPTH 1 1/2 FT. TOTAL LENGTH 90' FT. = { 180 needed }

NUMBER OF TRENCHES 2 ONE SIDEWALL/BOTTOM AREA 540 SQ. FT.

DRYWALL INSIDE DIAMETER FT. EFFECTIVE DEPTH BELOW INLET FT.

ABSORBENT AREA SQ. FT.

REMARKS: 10/8/92 Partial - P.M. of to cover from home to 1 of dist.
cross and continue on "O" trench. "HOLD FOR A CALL";
10/1/92 O.K. Cover R/P 10/9/92 C.B.

10/8 W.P.I. - OK - C.B. check

DATE SYSTEM APPROVED 10/9/92 INSPECTOR Paul Kelly

APPLICATION

PERCOLATION TESTING

A 42113
P _____

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

DISTRICT 274
DATE 4/2/88

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 EDWARD J. AND PATRICIA KUNTZE Fall Developers Inc
ADDRESS 2328 FLORENCE ROAD, WOODBINE, MD. 21797 PHONE 489-795-1864

PROSPECTIVE BUYER CARMAN ASSOCIATES
ADDRESS P.O. BOX 122, ELLICOTT CITY, MARYLAND 21043 PHONE 442-5613

PROPERTY LOCATION: N/S MD. ROUTE 144 APPROX 1200' EAST OF WATERSVILLE ROAD
SUBDIVISION PROPERTY OF LAVINIA L. HOOD LOT NO. 218 on Final
ROAD AND DESCRIPTION COURT 'A' (16613 Bahner Court)

TAX MAP 7 PARCEL # 482
SIZE OF LOT 3 ACRES + TYPE BLDG SFD
(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]
CARMAN ASSOCIATES
GENERAL PARTNER
(SIGNATURE OF APPLICANT)

APPROVED BY Sid Abel FOR Standard trench DATE 11-21-88

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 10/25/88 Perc Satisfactory - Hold for PERC S. Ave

BLDG. PERMIT SIGNED AND RETURNED 5/19/92
Serial # 42803 - SFD
3 Bedrooms

BLDG. PERMIT SIGNED AND RETURNED 6/4/91
Serial # 38766 - SFD
3 Bedrooms

THIS IS NOT A PERMIT

HD-216

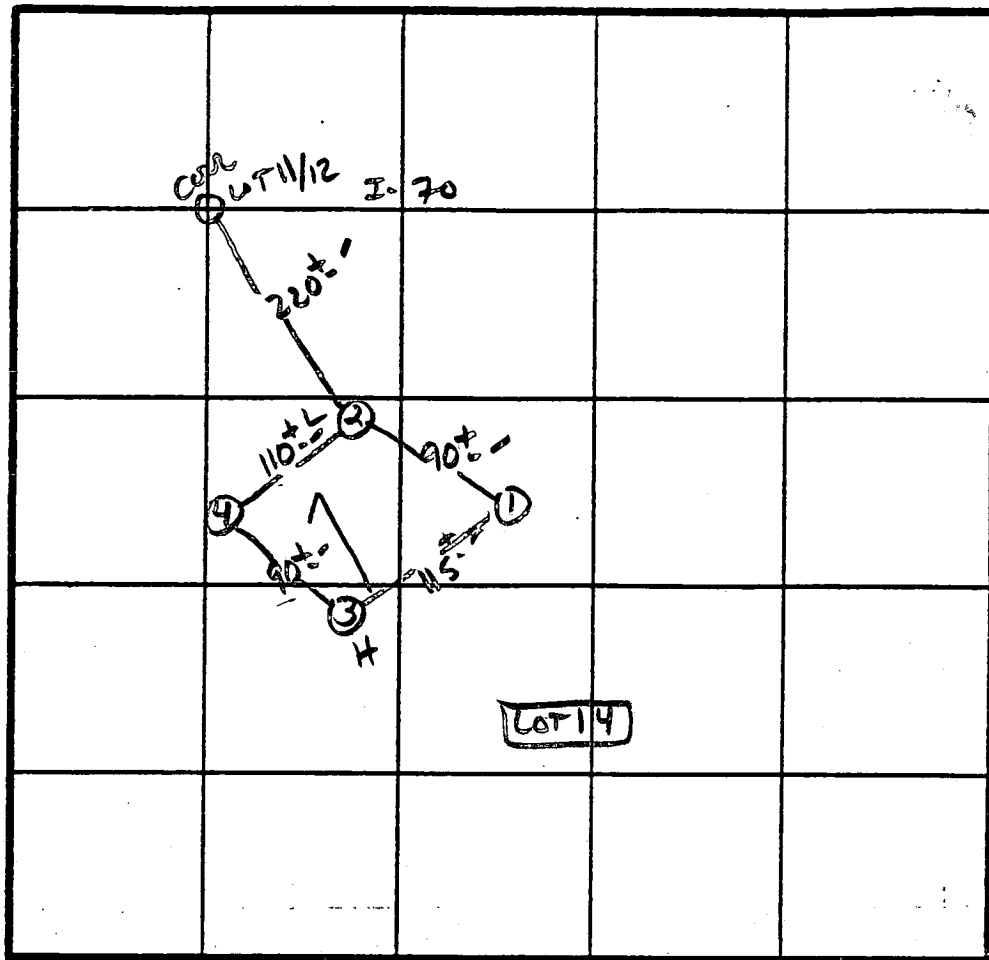
A-42113

③ SOIL PROFILE

0'
5'
3.5'
12'

AP
Yellow Br
Silt loam
(clayey)
15-20%
Frags

Yellow Br-
Strong
Br
Silt loam
20-25%
Frags



X Perc
6 min
180 ϕ 1BR
Inlet 3.5
Bottom 5.0

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

R-144

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
10/25/88	1V	4" 11.5'	11:40 Shalay AT 11:40	11:42	11:42 35-50% Frags	11:45	3 min
	2V	3" 12"	11:44 As profiled w/ 25-30% Frags AT 12"	11:46	11:46	11:51	5 min
	3V	3.5" 8"	11:48 11:45	11:49 11:47	11:49 11:47	11:52 11:53	3 min 6 min
	3V	12.0"	As profiled				
	4V	4" 12"	11:41 similar to profile	11:47	11:47	11:58	11 min

REMARKS Hole APPROX PLAT

TYPE OF SOIL Clayey

TESTED BY S. Abel

ALSO PRESENT PH. M. ANDREWS
C. Ernest Ruby

C1 2421

SEQUENCE NO. (DENV 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 COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER A-42113

DATE RECEIVED

DATE WELL COMPLETED 082089

DEPTH OF WELL 395 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HC-88-0563

OWNER PARMAN ASSOCIATES STREET OR RFD BANAYE CT TOWN UPPAN SUBDIVISION QUAIL MEADOWS SECTION LOT 18

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), Check if water bearing. Includes handwritten entries: Brown shale 0-59, Blue rock 59-325.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL: CEMENT (CM), BENTONITE CLAY (BC), NO. OF BAGS 11, NO. OF POUNDS 1034, DEPTH OF GROUT SEAL 35 ft.

CASING RECORD: casing types insert appropriate code below, STEEL (ST), CONCRETE (CO), PLASTIC (PL), OTHER (OT).

MAIN CASING: Nominal diameter 6 inches, Total depth of main casing 325 feet.

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

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

DEPTH (nearest ft.) table with handwritten entry: HO 61 325.

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. 738

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

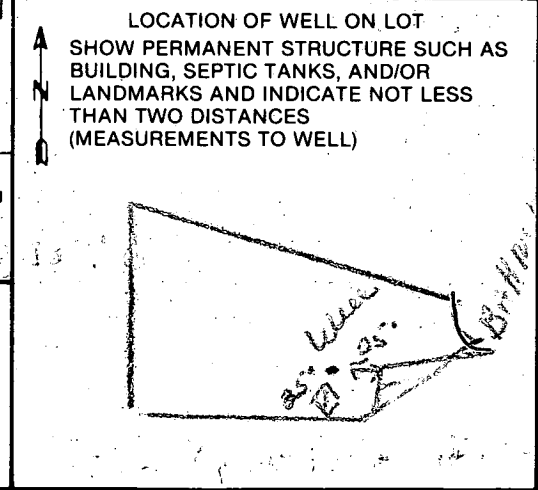
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from-permittee)

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 3, PUMPING RATE 47 gal. per min., METHOD USED TO MEASURE PUMPING RATE Bucket, WATER LEVEL 52 BEFORE PUMPING, WHEN PUMPING 190, TYPE OF PUMP USED (for test) S submersible.

PUMP INSTALLED: DRILLER WILL INSTALL PUMP. YES (NO), IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE: 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 (nearest foot) 50-51.



COUNTY

B 1 **2221** SEQUENCE NO. (DP USE ONLY)
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

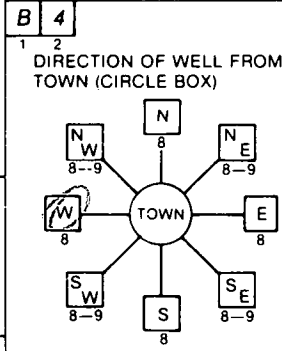
STATE OF MARYLAND
 PERMIT TO DRILL WELL
 please print or type

STATE PERMIT NUMBER
HO-88-0563
 fill in this form completely

Date Received (APA) **04/28/89**
 OWNER INFORMATION
CARMAN ASSOCIATES
 PO BOX 100
 ELLICOTT CITY MD 21043

B 3 LOCATION OF WELL
HOWARD COUNTY
CHAIL MEADOWS SUBDIVISION
 SECTION **44** LOT **18**
LISBON NEAREST TOWN
 MILES FROM TOWN **1 1/2** MI

DRILLER INFORMATION
Joseph L. Wayne License No. **238**
Joseph L. Wayne Well Drilling
 5512 RIDGE RD. Mt. Airy 21771
Joseph L. Wayne Date **4/16/89**



Bahner Court NEAR WHAT ROAD
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH [] WEST [] EAST [] SOUTH []
350 DISTANCE FROM ROAD
 ENTER FT or MI **FT**

B 2 WELL INFORMATION
 APPROX. PUMPING RATE (GAL. PER MIN.) **5**
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **560**

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)

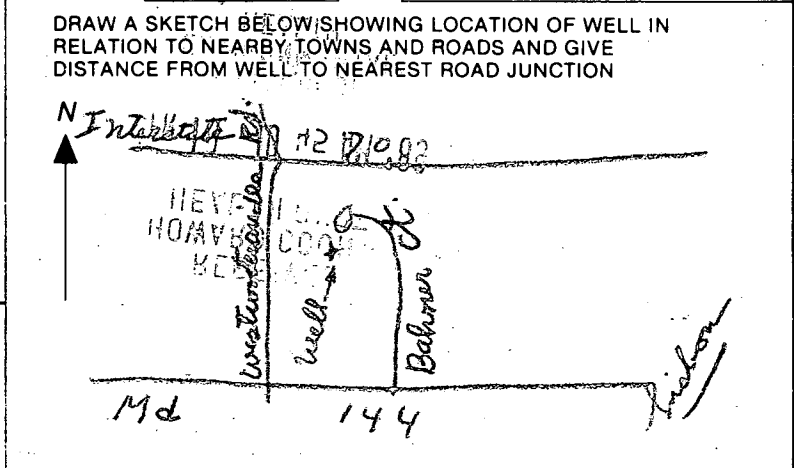
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard COUNTY NAME
A-42113 COUNTY NO.
 STATE SIGNATURE _____ INSERT S _____
 DATE ISSUED **04/18/89** CO SIGNATURE **Sidney Abel** EXP. DATE **10-17-89**
 NORTH GRID **550000** EAST GRID **0774000**

APPROXIMATE DEPTH OF WELL **260** FEET
 APPROXIMATE DIAMETER OF WELL **6** INCH

METHOD OF DRILLING (circle one)
 BORED (or Augered) JETTED Jetted & DRIVEN
 AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary)
 CABLE REVerse-ROTary DRive-POINT
 other _____

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
 E **774**
 N **550**
 8-30-89 1:00 grout
 63' CASING GROUT
 35' OPEN NOT OBS'D
 11 BAGS
 2 1/2' CASING A.G.
 ✓TAG OK

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
 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 **SA** WRITE INITIALS IN BOX PERMIT NO. **HO-88-0563**

SPECIAL CONDITIONS

A. PROP. HOUSE

F.F. ELEV. = 754.9'
B.S.M.T. ELEV. = 746.4'
INV. ELEV. = 745.2'

B. PROP. SEPTIC TANK

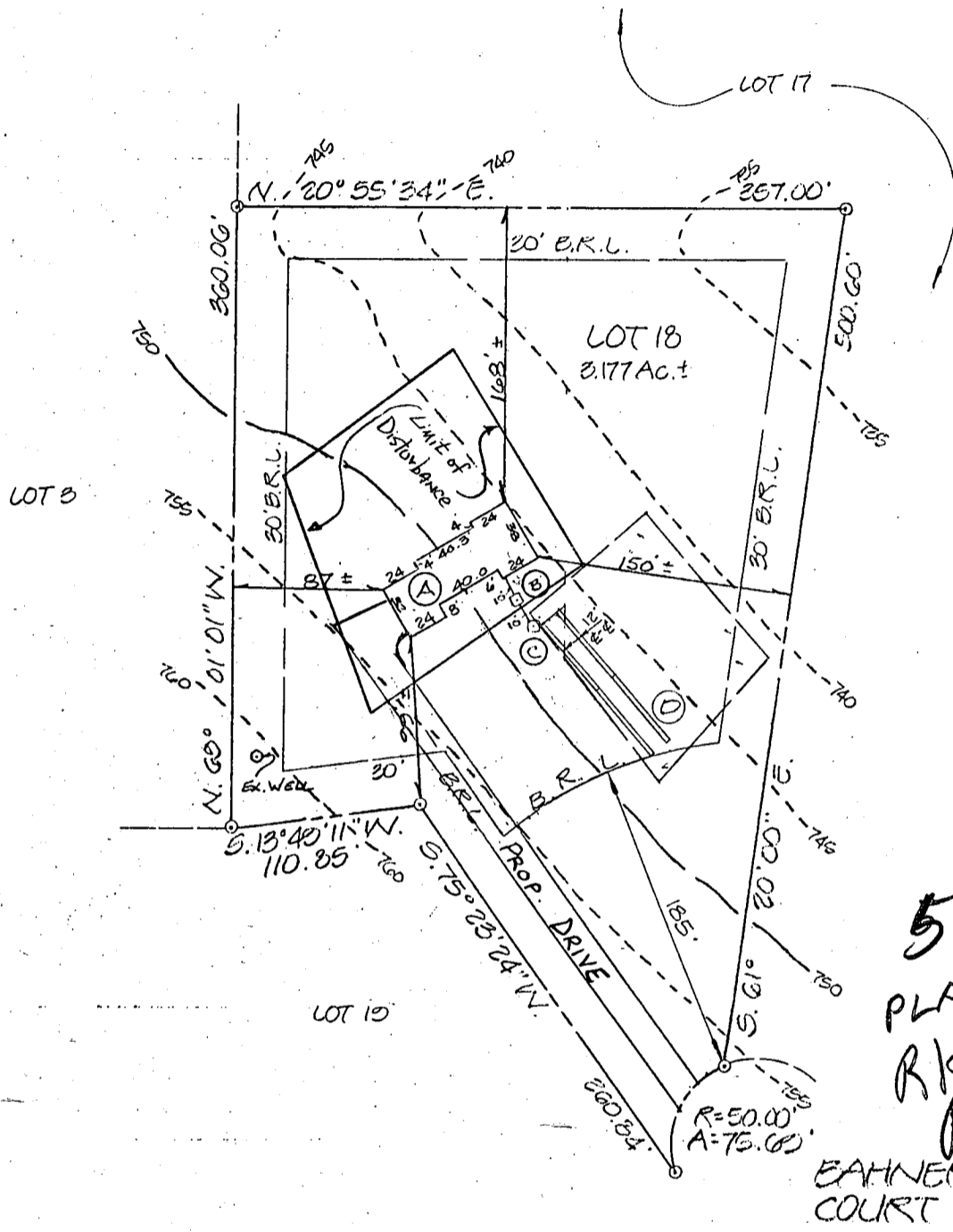
EX. ELEV. = 747.8'
INV. IN = 745.1'
INV. OUT = 744.8'

C. PROP. DIST. BOX

EX. ELEV. = 747.0'
INV. ELEV. = 744.7'

D. PROP. TRENCHES

INV. ELEV. = 744.4'
1.5' STONE, 5' BOTTOM MAX.
LENGTH TO BE DETERMINED AT
TIME OF SEPTIC PERMIT ISSUANCE.

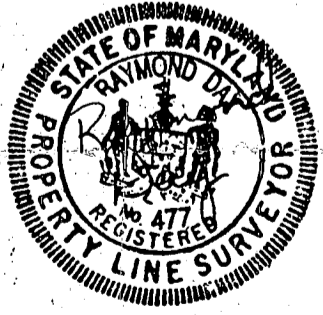


5/19/92
PLANS O.K.
R/Hodges
BP42803

BAHNER COURT (50' R/W)

3 BEDROOMS

PLAT PLAN
LOT 18
QUAIL MEADOW
SITUATED ON BAHNER COURT
ELECTION DISTRICT N^o 4
HOWARD COUNTY, MARYLAND
SCALE 1" = 100' MARCH 1992



REVISED: 7 MAY 92 - HOUSE TYPE & LOCATION
*REVISED: 4/7/92: HSE. POSITION & ELEV.

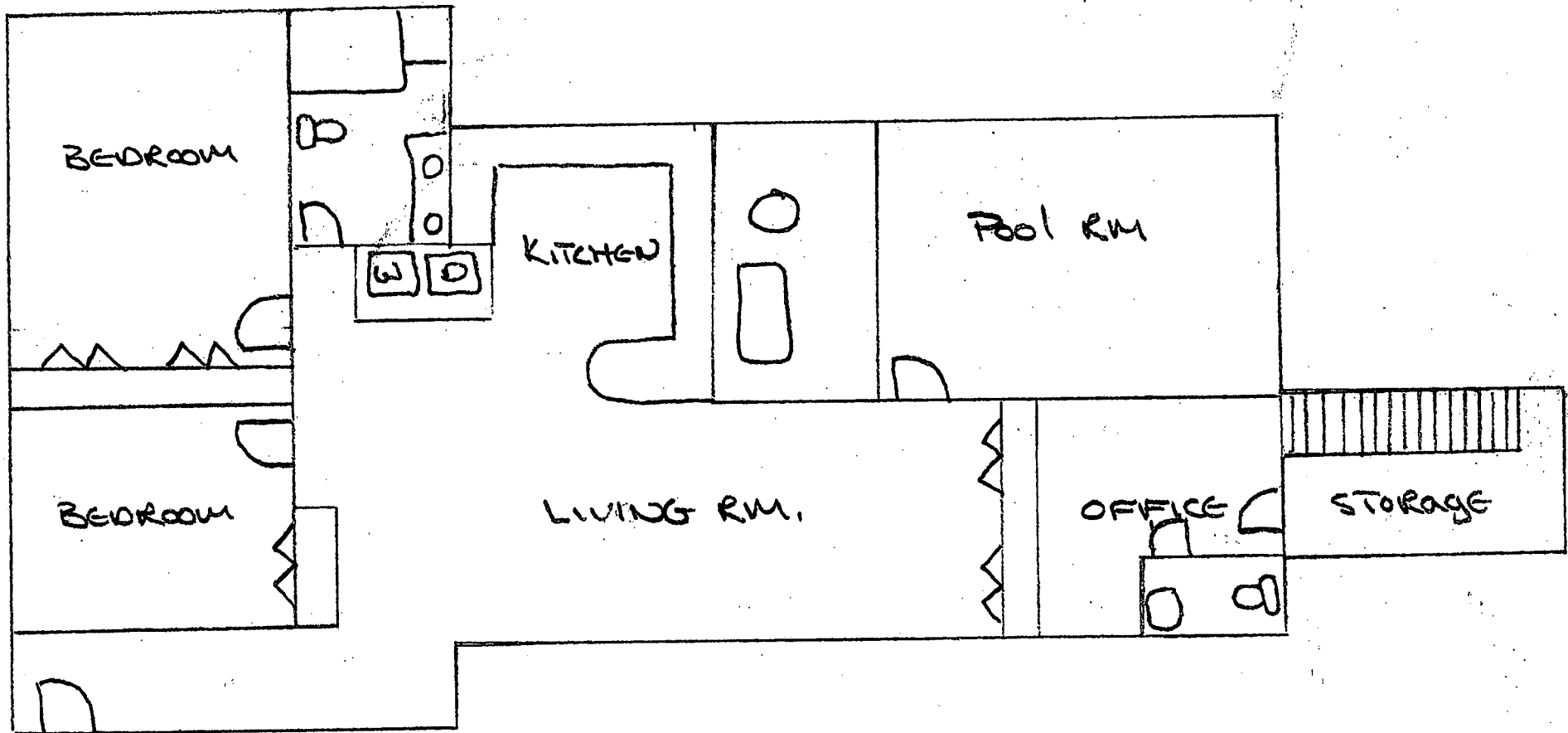
I CERTIFY THIS PLAT TO BE CORRECT; IT IS THE RESULT OF AN ACTUAL FIELD SURVEY, BASED ON DATA FOUND AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND, AS REFERENCED HEREON.

REFERENCE	JOB NO.
FLAT N ^o 935G	91-04

LIBERTY SURVEY, INC.
4140 RIDGE ROAD
TAYLORESVILLE, MARYLAND

410-875-0722 21157

scale - $\frac{1}{8}'' = 1'-0''$



currently 3 bedrooms - 1000 gal septic tank.

5 bedrooms - 1500 gallon s.t.

$$\frac{5 \times 180}{3} = 300 \text{ (1.5) } \quad \frac{3 \times 180}{3} = 180$$

- 213 -

215
revised

180

33'

