

04-346432

# PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH DISTRICT \_\_\_\_\_

**HOWARD COUNTY**  
BUREAU OF ENVIRONMENTAL HEALTH  
461-9933

P 43130  
A 38013

DATE 11/29/88

DATE SYSTEM APPROVED 10/4/88

INSPECTOR C.B.D.

## INDEXED

O. KETTERMAN

IS PERMITTED TO INSTALL \_\_\_\_\_ ALTER \_\_\_\_\_

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

SUBDIVISION GLENWOOD SPRINGS ROAD HOBBS 2801 GLENWOOD SP. DR. LOT 1

PROPERTY OWNER \_\_\_\_\_

ADDRESS \_\_\_\_\_

IF GARBAGE GRINDER IS USED INCREASE SEPTIC TANK CAPACITY BY 50% AND ABSORPTION AREA BY 22%.

GARBAGE GRINDER? YES \_\_\_\_\_ NO \_\_\_\_\_

SEPTIC TANK CAPACITY \_\_\_\_\_ GALLONS NUMBER OF BEDROOMS \_\_\_\_\_

10/4 NOTE C.W. GAVE TO C.B.D. in P.M.)

10/4 SPECS - SEE ATTACHED

TRENCHES - 200 sq. ft. per bedroom. Trench to be 2 feet wide. Inlet 4 1/2 feet below original grade. Bottom maximum depth 8 1/2 feet below original grade. Effective area begins at 4 1/2 feet below original grade. 4 feet of stone below distribution pipe.

LOCATION - Beginning from right rear lot corner, place the distribution box 190 feet down the right (490') lot line and 120 feet off the right line as seen when facing property from Hobbs Road. Run trenches along contour towards the right (490' which is towards Glenwood Springs Drive) lot line and left (445.06') lot line.

PLANS APPROVED BY Sid Abel DATE Updated 4/28/88 or/cw

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

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 TRENCHES ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCHES

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 40 PVC OR ABS

PERMIT VOID AFTER TWO YEARS

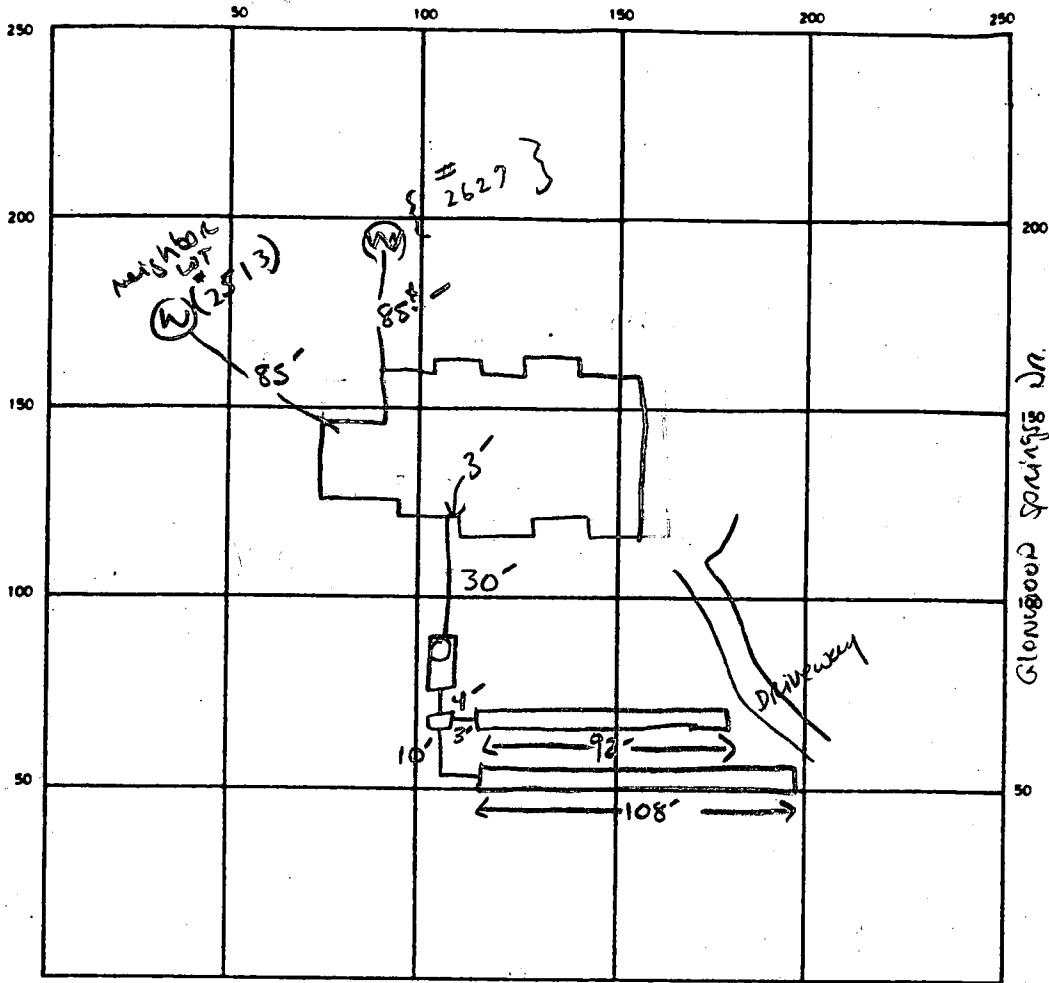
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA OR PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

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

CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEMS.

A 38013



4BR  
NO

INDICATE NORTH — NAME ADJOINING ROADWAY AS BASE LINE

Hobbs Rd.

SEPTIC TANK LEVEL ✓ 1500

CLEANOUTS MANHOLE TANK ✓

DISTRIBUTION BOX LEVEL ✓

DRAIN FIELD TILE FIELD DEPTH 8.5 FT. TRENCH WIDTH 2 FT. INLET DEPTH 4.5 FT.

EFFECTIVE GRAVEL DEPTH 4 + FT. TOTAL LENGTH 92 108 FT } 200

NUMBER OF TRENCHES 2 ONE SIDEWALL/BOTTOM AREA 800 SQ. FT.

DRYWELL INSIDE DIAMETER - FT. EFFECTIVE DEPTH BELOW INLET - FT.

ABSORBENT AREA 800 SQ. FT.

REMARKS

① 10/4/88 INSPECTION OF ABOVE FOUND - TRENCHES OK TO COVER. C.R.P.  
FINALED STICKER LEFT.

DATE SYSTEM APPROVED

10/4/88

INSPECTOR

Charles Bryan Strecker

*Preliminary  
December 87  
9:30*

# APPLICATION

PERCOLATION TESTING

A 38013

P \_\_\_\_\_

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

*Received - out to process  
1/20/87  
perc OK  
pending approval  
[Signature]*

DISTRICT \_\_\_\_\_

DATE 11/7/86  
~~10-14-86~~

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 KB Properties, Inc.

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

PROSPECTIVE BUYER Ronald Carter

ADDRESS 8388 Court Ave., Ellicott City, Md. 21043 PHONE 461-2855

PROPERTY LOCATION:

SUBDIVISION Hakes Property LOT NO. ONE Prelim of 4/29/87

ROAD AND DESCRIPTION Hobbs Road 2801 Glenwood Springs Dr.

TAX MAP 14 PARCEL # 83,87,202

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.

*Ronald P Carter*  
(SIGNATURE OF APPLICANT)

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

REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

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

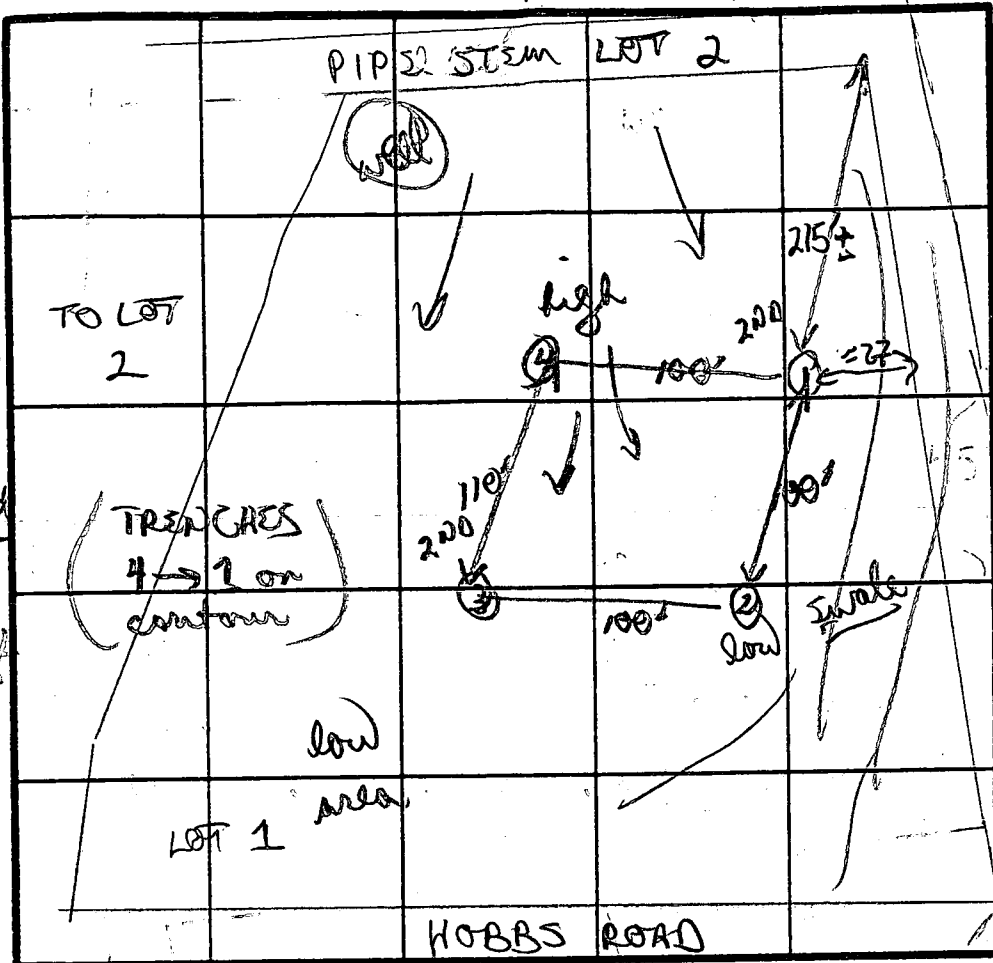
REASONS FOR REJECTION OR HOLDING for certified holes & sub - plot

BLDG. PERMIT SIGNED  
AND RETURNED 4-29-88

BP-18194 SHC

# THIS IS NOT A PERMIT

TO LOT 3 ↑



④  
red/orange clay/clay loam  
to gray/orange silty loam w/ 5-10% sand scattered  
6'  
12'D TO LOT 43

SOIL PROFILE  
①  
orange/red checker/rocky -4 1/2'  
to orange silty gravelly w/ 10% small rocky frags  
15% 11'  
12'D

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

②  
yellow/orange red clay silty loam  
to yellow 4' silty mica loam w/ few small scattered frags  
11 1/2'D

③  
brown/red gritty chunky clay/clay loam  
33-45'  
brown silty loam

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
12/20/87	①	4 1/2'S	1105	1111	1110	1118	7min	
		8'M	1105	1110	1110	1116	6min	
		12'D	Bottom (see profile)					
	②	4'S	1118	1127	1127	1200	NO P.P.R.C	
		6'	1100	1100	1100	1202	12min	
		8'M	1118	1122	1122	1130	8min	
		13'D	Bottom (see profile)					
	③	43.5	1122	1141	1141	1205	24min	
		11 1/2'D	Bottom (see profile)					
	④	4'S	1130	1133	1133	1137	4min	
		12'D	Bottom (see profile)					

X = 10 1/2 min  
INLET 4 1/2'  
MAX D 8 1/2'  
200#

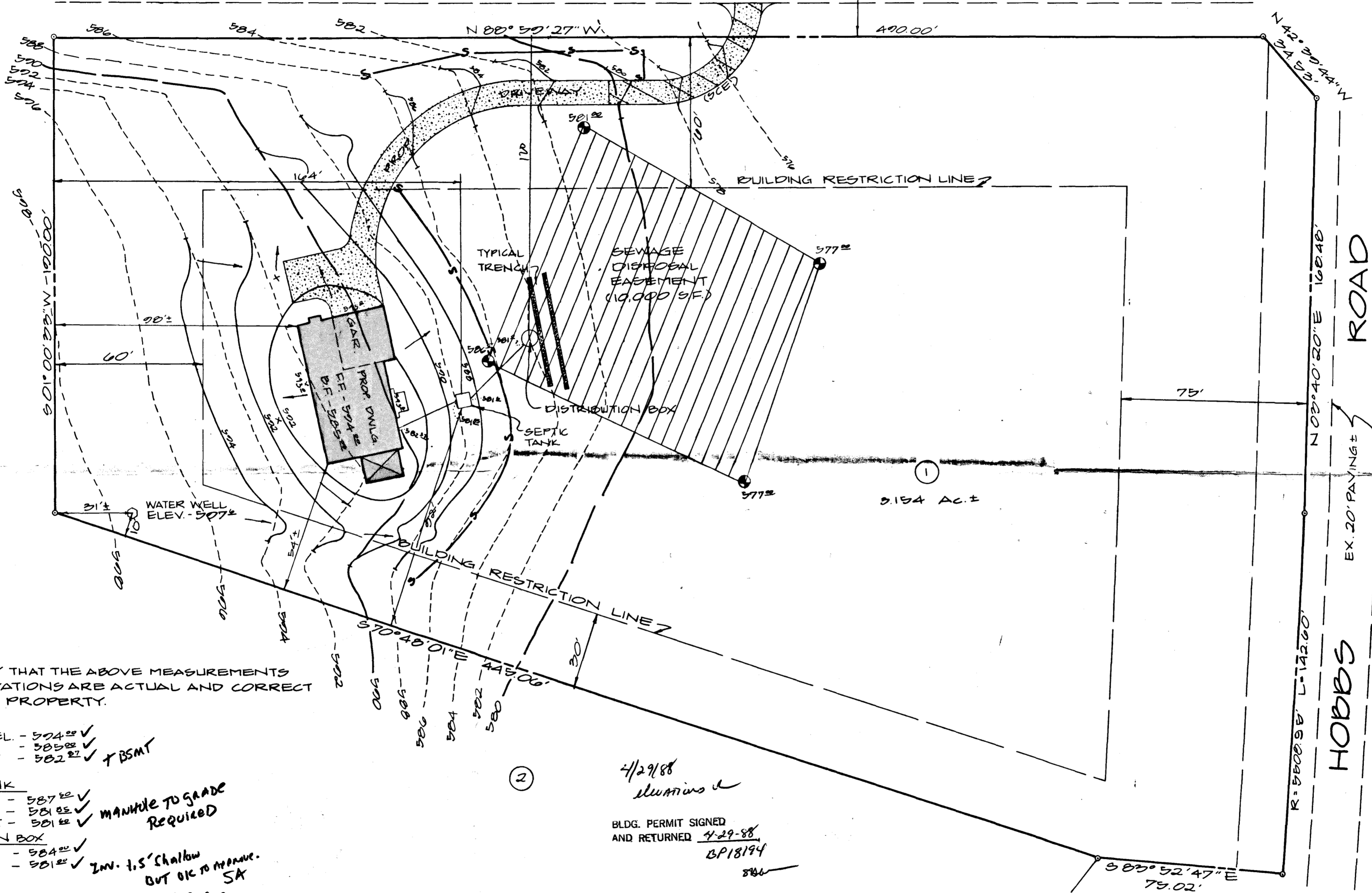
REMARKS: soils better on top holes, marginal in lower (clay)  
TYPE OF SOIL: orange/yellow clays heavy at times 4-5'; silty/clay loam w/ rock frags  
TESTED BY: B Nuyon  
ALSO PRESENT: Phil, Dave K.

M/D STATE GRID MERIDIAN

GLENWOOD

SPRINGS

DRIVE



I CERTIFY THAT THE ABOVE MEASUREMENTS AND ELEVATIONS ARE ACTUAL AND CORRECT FOR THIS PROPERTY.

1<sup>ST</sup> FLOOR EL. - 504.00 ✓  
 BSMT. EL. - 505.00 ✓  
 INV. EL. OUT - 502.00 ✓ \* BSMT  
 OF HOUSE

SEPTIC TANK  
 EXIST. EL. - 507.00 ✓  
 INVERT IN - 501.00 ✓  
 INVERT OUT - 501.00 ✓ **MANHOLE TO GRADE Required**

DISTRIBUTION BOX  
 EXIST. EL. - 504.00 ✓  
 INVERT IN - 501.00 ✓ **Inv. 1.5' shallow OUT OK TO MANHOLE SA**

*Mark L. Robel*  
 MARK L. ROBEL, #3337      4-10-88  
 DATE

4/29/88  
 elevations &

BLDG. PERMIT SIGNED  
 AND RETURNED 4-29-88  
 BP18194

NOTE: CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM FOUNDATION AT ALL TIMES.

— S — S - SILT FENCE  
 (SCE) - STABILIZED CONSTRUCTION ENTRANCE

SITE PLAN

LOT 1

"GLENWOOD SPRINGS"

3RD ELECT. DIST.  
 SCALE: 1" = 20'

HOWARD CO., MD.  
 APRIL 10, 1988

VITTI, ROBEL & ASSOCIATES, INC.

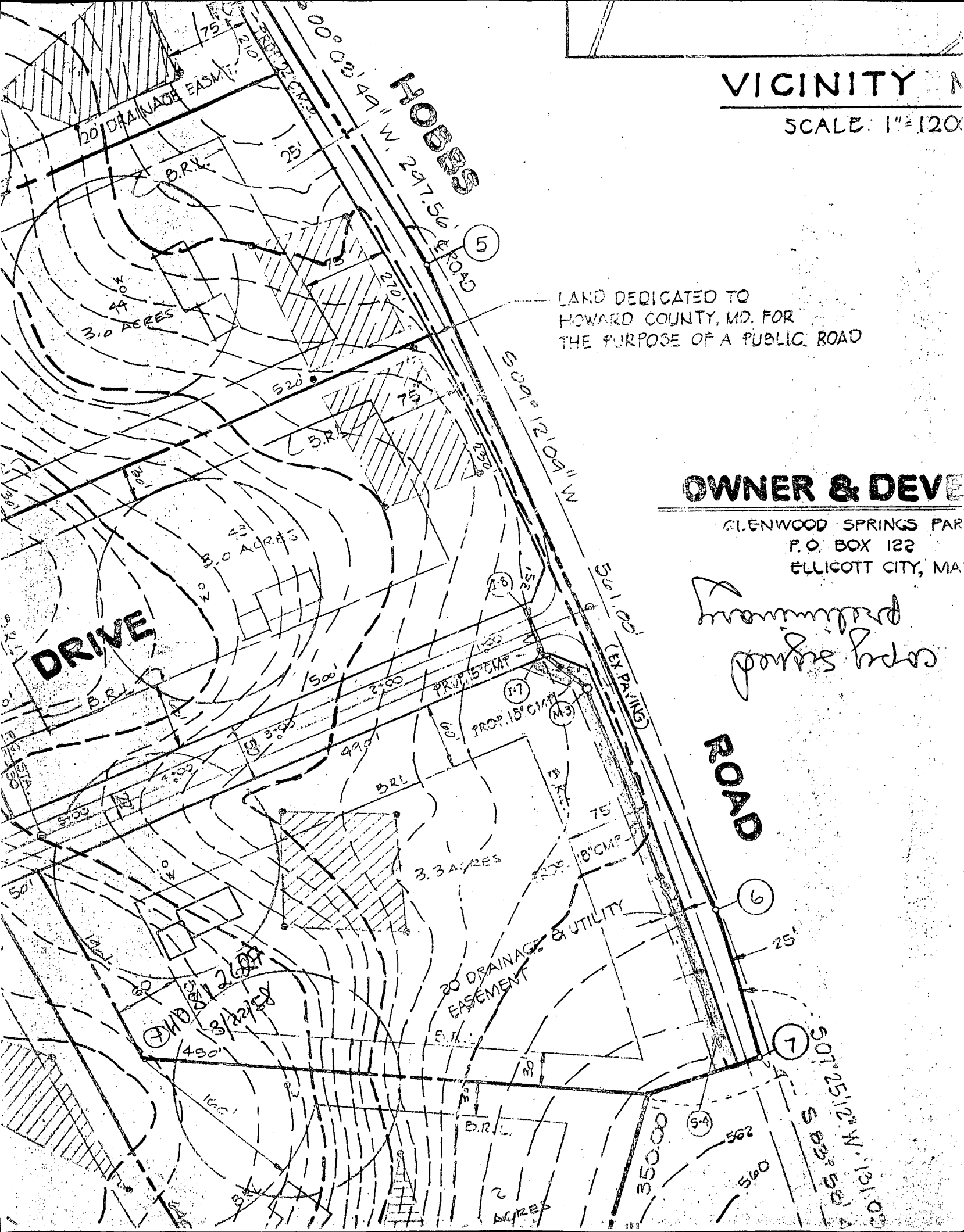
ENGINEERING & SURVEYING

1717 YORK ROAD SUITE 2B LUTHERVILLE, MD

(301) 252-4552

# VICINITY

SCALE: 1" = 120'



LAND DEDICATED TO HOWARD COUNTY, MD. FOR THE PURPOSE OF A PUBLIC ROAD

## OWNER & DEVELOPER

GLENWOOD SPRINGS PARK  
P.O. BOX 122  
ELICOTT CITY, MD

*Transferred  
part of parcel*

ROAD

WB 81 260  
8/22/58

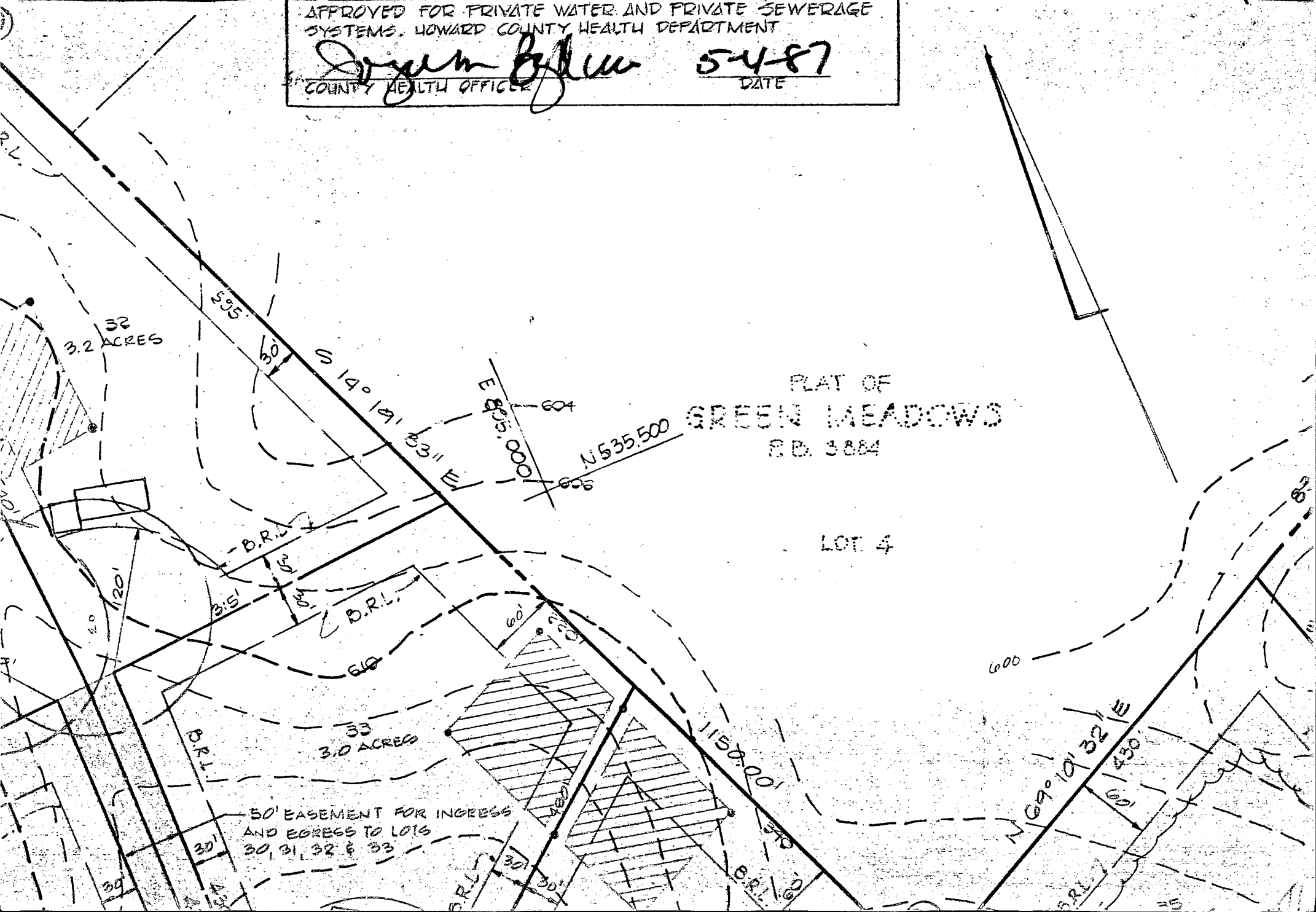
S 01° 25' 12" N. 131.09'  
S 02° 56' A  
60 10 00'

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT

*Joseph B. [Signature]* 5-4-87  
COUNTY HEALTH OFFICER DATE

PLAT OF  
GREEN MEADOWS  
S.B. 3884

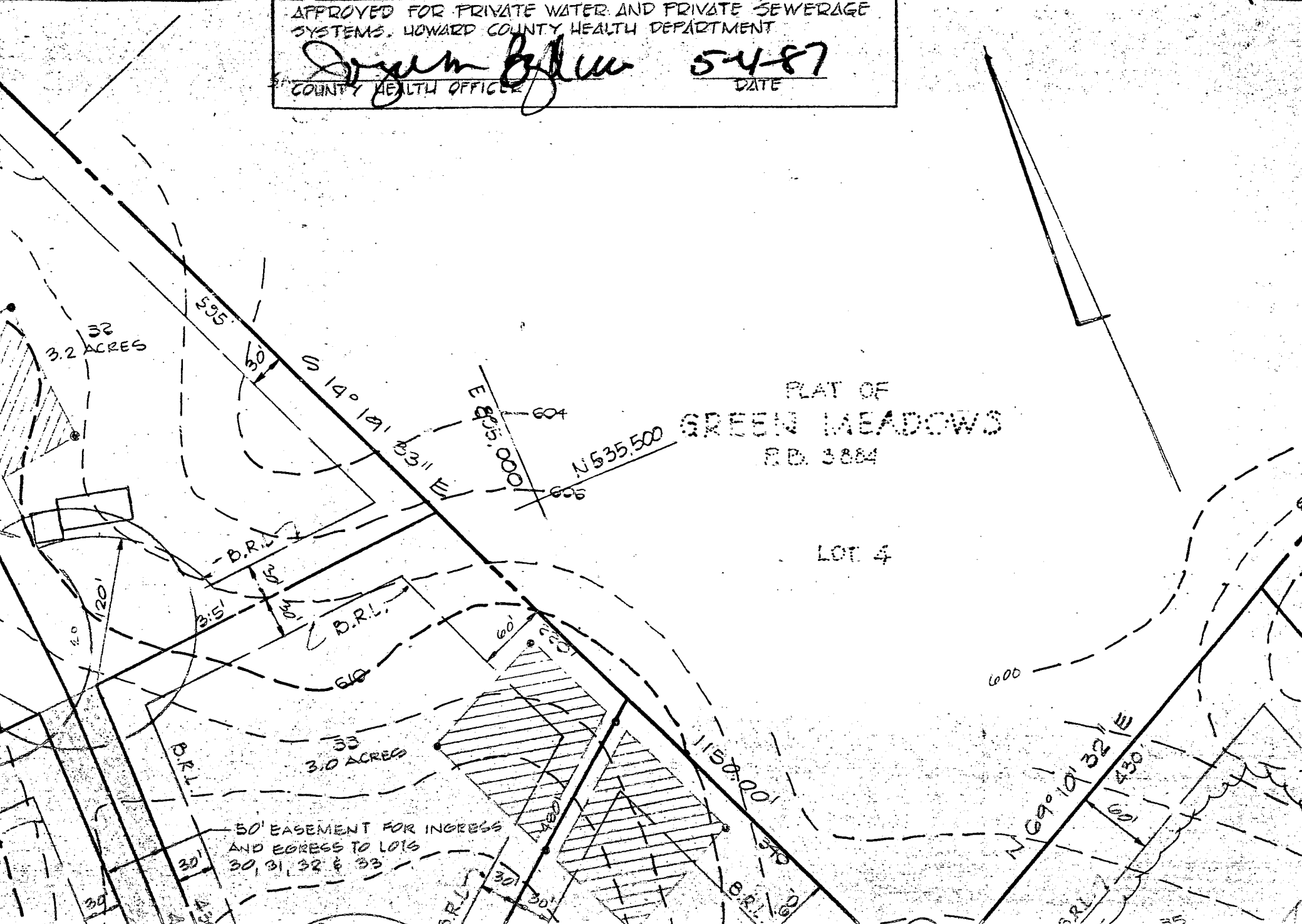
LOT 4



3.2 ACRES

3.0 ACRES

50' EASEMENT FOR INGRESS AND EGRESS TO LOTS 30, 31, 32 & 33



B 1 3655

SEQUENCE NO. (DP USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

please print or type

STATE PERMIT NUMBER

HO-81-2627

fill in this form completely

Date Received (APA)

022488

OWNER INFORMATION

MARSHALL REALTY

7020 GARDNER LAVE

HIGHLAND MD 20777

DRILLER INFORMATION

Joseph L. MAYNE License No. 233

Joseph L. MAYNE WELL DRILLING

5512 RIDGE RD. MT. AIRY MD. 21771

Signature: Joseph L. Mayne Date: 2/23/98

WELL INFORMATION

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

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500

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

METHOD OF DRILLING (circle one)

- Bored (or Augered)
Air-Rotary
Cable
Jetted & Driven
Rotary (Hydraulic 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
This well will deepen an existing well
Permit number of well to be replaced or deepened (if available)

Not to be filled in by driller (OEP USE ONLY)

APPROX. PERMIT NUMBER GAP

FORCE INITIALS PERMIT NO. HO-81-2627

SPECIAL CONDITIONS

B 3

LOCATION OF WELL

HOWARD COUNTY

GLENWOOD SPRINGS SUBDIVISION

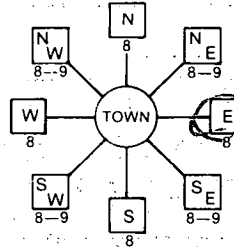
SECTION LOT

GLENWOOD NEAREST TOWN

MILES FROM TOWN (enter 0 if in town) 5 MI

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Glenwood Spring Dr. / Hobbs Road

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



DISTANCE FROM ROAD 160

ENTER FT or MI FF

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

HOWARD COUNTY NAME A 3013 COUNTY NO.

STATE SIGNATURE DATE ISSUED

032283 Balaban 09/22/89

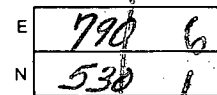
NORTH GRID 531000 EAST GRID 0796000

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

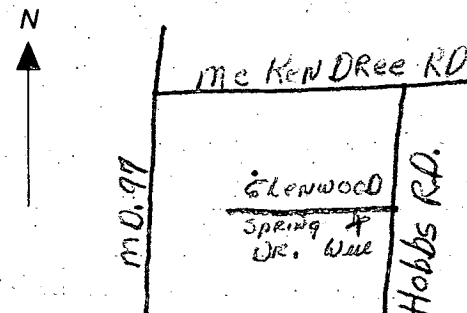
SOURCES OF DRILLING WATER

- 1. Well

WRITE THE BOX NUMBER FROM THE MAP HERE



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



C1 8582 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

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

COUNTY NUMBER A 38013 PERMIT NO. FROM "PERMIT TO DRILL WELL" 40-81-2627

DATE Received DATE WELL COMPLETED 040898 Depth of Well 325 (TO NEAREST FOOT)

OWNER REALTY MARSHALL STREET OR RFD GLENWOOD SPRINGS DR / HOBBS ROAD TOWN GLENWOOD SUBDIVISION GLENWOOD SPRINGS SECTION LOT 1

WELL LOG Not required for driven wells STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL CEMENT CM BENTONITE CLAY BC

CASING RECORD casing types insert appropriate code below MAIN CASING Nominal diameter Total depth

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

SCREEN RECORD screen type or open hole insert appropriate code below

DEPTH (nearest ft.) 110 21 325

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"

DRILLERS IDENT. NO. 238 DRILLERS SIGNATURE

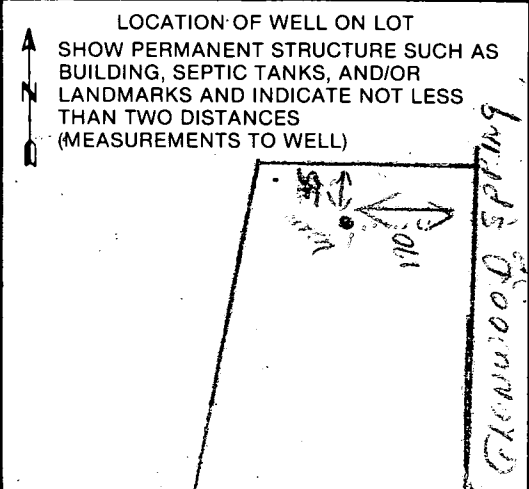
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

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 TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST HOURS PUMPED (nearest hour) 6 PUMPING RATE (gal. per min. to nearest gal.) 2 METHOD USED TO MEASURE PUMPING RATE: Bump test

PUMP INSTALLED DRILLER WILL INSTALL PUMP YES (NO) TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE:



Page 1 of 1  
 Date 4/8/88

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

Well Permit No. HO - 81-2627  
 Location of property (road) Glenwood Springs Dr.  
 Subdivision Glenwood Springs Lot I Block      Plat      Sec.       
 Well Driller Joseph L. Maple Owner R.B. Properties, Inc. & Marshall Realty  
 Depth of well 325'  
 Distance of measuring point (M.P.) above ground 1'  
 Static water level (S.W.L.) below M.P. 27'

High rate pumping -- reservoir drawdown

Time pump started 7:30 Pumping rate 20 gpm.  
 Total time 30 min. to reach pumping water level 257' ft below M.P.

1. 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 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
7:45	184'	3		20
8:00	251	3		20
8:15	251	27		2.2
8:30	251	27		2.2
8:45	251	27		2.2
9:00	250	27		2.2
9:15	250	27		2.2
9:30	251	27		2.2
9:45	251	27		2.2
10:00	250	27		2.2
10:15	251	27		2.2
10:30	251	27		2.2
10:45	251	27		2.2
11:00	251	27		2.2
11:15	251	27		2.2
11:30	251	27		2.2
11:45	251	27		2.2
12:00	251	27		2.2
12:15	251	27		2.2
12:30	251	27		2.2
12:45	251	27		2.2
1:00	251	27		2.2
1:15	251	27		2.2
1:30	251	27		2.2
1:45	251	27		2.2
2:00	251	27		2.2



STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
201 W. Preston St.  
P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

CO130391038  
Lab No. \_\_\_\_\_

**WATER ANALYSIS**

Bottle Number: H 1444 Name: MARSHAL REALTY County: HOWARD

Source of Sample: GLENWOOD SPRINGS LOT 1 Collector: HODGES  
Street Town or City

Sample Type (Circle): Community Source Non-Community Distribution Private MCL Emergency Recheck Routine

Remarks: ~~PLEASE SEARCH FILES FOR ADDITIONAL INFORMATION~~  
No-81-2627 Glenwood Springs Drive

County: 13 Plant No. [ ] Sampling Station: [ ] Date Collected: 040888 Time: 11 AM Acid: [ ] Iced:   
Field Data: pH\* [ ] Chlorine Residual: [ ] Free: [ ] Total: [ ] Specific Conductance: [ ]

✓	ANALYSIS	CODE	RESULTS	✓	ANALYSIS	CODE	RESULTS
	pH*	00403			Arsenic	01002	
	Alkalinity (Total)	00410			Barium	01007	
	pH*, Ca, CO <sub>2</sub> , SAT.	70311			Cadmium	01027	
	Alkalinity, Ca CO <sub>2</sub> , SAT.	74023			Chromium	01034	
	Hardness	00900			Lead	01051	
	Ammonia-N	00608			Mercury	71900	
✓	Nitrate-Nitrate N	00630	<u>135</u>		Selenium	01147	
	Nitrite N	00615			Silver	01077	
	MBAS	38260					
	Chloride	00940			Aluminum	01105	
	Fluoride	00951			Calcium	00916	
	Color*	00081			Copper	01042	
	Turbidity*	00076			Iron	01045	
	Conductance*, SPEC	00095			Magnesium	00927	
	Sulfate	00945			Manganese	01055	
	Total Solids	00500			Nickel	01067	
	Dissolved Solids	70300			Potassium	00937	
					Sodium	00929	
					Zinc	01092	

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: APR 12 1988 Date Reported: APR 27 1988 Chemist: [Signature]

# HOWARD COUNTY HEALTH DEPARTMENT

JOYCE M. BOYD, M.D., M.P.H.  
COUNTY HEALTH OFFICER



Bureau of Environmental Health  
3525 Ellicott Mills Drive  
Ellicott City, Maryland 21043

Director - 461-9956  
Water & Sewerage, Permits - 461-9933  
Community Environmental Health - 461-9944  
Technical Services - 461-9955

July 7, 1988

Marshall Realty  
7020 Gardner Lane  
Highland, Maryland 20777

RE: Glenwood Springs - Lot 1  
Glenwood Spring Drive/  
Hobbs Road  
Well Tag Number: HO-81-2627

To Whom It May Concern:

The water sample recently submitted for testing from the above referenced water supply revealed that nitrate-nitrogen was present at a concentration of 13.5 parts per million. COMAR 10.17.13.09 prohibits approval of any water supply with a nitrate-nitrogen contaminant level in excess of 10 parts per million.

This department will grant a Permanent Deviation from that regulation if a nitrate removal device is installed that effectively maintains the nitrate-nitrogen contaminant level below the 10 parts per million requirements. Once this device is installed, it will be necessary for you to comply with the following conditions before a Final Certificate of Potability can be issued:

1. Within six months, you must have your water re-tested to insure that the installed nitrate removal system is operating properly. Thereafter a yearly nitrate analysis is recommended.
2. There must be continuing service contract with a plumbing contractor or water treatment service company to maintain the efficiency of the nitrate removal device. You must supply this Department with a copy of that contract.
3. If in the future, you decide to sell or rent your home, you must make any potential buyer/tenant aware of the above condition.

If you have any questions relative to this matter, or if the device has been installed and you are ready for resampling, please call me at 461-9933.

Very truly yours,

*Jane Nadeau c.w.*

Jane Nadeau, Sanitarian  
Water and Sewerage Program



J  
T

# C Environmental Consultants, Inc.

SUITE L-10 • 4 RESEARCH PLACE • ROCKVILLE, MARYLAND 20850 • (301) 921-8780

926-6802

## LABORATORY ANALYSIS REPORT

TO: K.B. Properties

FROM: Analytical Division

SUEJ: Results of Nitrate Analysis for 2801 Glenwood Springs Lot 1

DATE: March 22, 1989

### RESULTS

<u>Analysis</u>	<u>Client ID</u>	<u>JTC ID</u>	<u>Result</u>
Nitrate Nitrate (NO <sub>3</sub> )	2801 Glenwood	89-504	< 100 ug/L (ppb) < 0.10 mg/L (ppm)

3-31-89

Called lab. Sample taken 2-28-89. Paul Haynos confirmed Nitrate results as < 0.1 mg/liter. St. Nadeau