

10-7-96  
1130  
10/9/96  
c.o. 11:00 AM  
10/10/96  
ASAP

# PERMIT

## SEWAGE DISPOSAL SYSTEM

### DEPARTMENT OF HEALTH AND MENTAL HYGIENE

# INDEXED

P 57274D

A 56361A

DISTRICT 5th

DATE 09/16/96

#### HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

~~XXXXXXXX~~ 313-2640

DATE SYSTEM APPROVED 10/10/96

INSPECTOR [Signature]

South Carroll Backhoe, Inc.

IS PERMITTED TO INSTALL X ALTER

ADDRESS 4410 Salem Bottom Road, Westminster, Maryland 21157 PHONE 875-4197

SUBDIVISION Fulton Manor East LOT 4 (1) ROAD 12306 Carol Drive

PROPERTY OWNER Hamilton Reed LLC Richard Brohawn

ADDRESS \_\_\_\_\_

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 180

BLDG. PERMIT NO.

**AND RETURNED** 6-3-98

*Serial # B70112136 - deck*

TRENCHES - Trench to be 2 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 7 feet below original grade. Effective area begins at 3 feet below original grade. 4 feet of stone below distribution pipe.

LOCATION - Beginning at the intersection of the (52.5', N22°29'00"E and 287.35', S64°08'34"E) left lot lines as viewed from Carol Drive, go to a point 110 feet up the 287.35' lot line. Place the distribution box 87 feet from that point (and 142 feet from the point of origin). Install trench(s) on contour toward the front lot line. Keep a 24 ft. spacing between the first and second trench(s) as reserve for future repair system.

NOTES - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. 9/30/96 OK ALM

PLANS APPROVED BY Ronald J. Pinkley

DATE 09/27/96

COVER 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

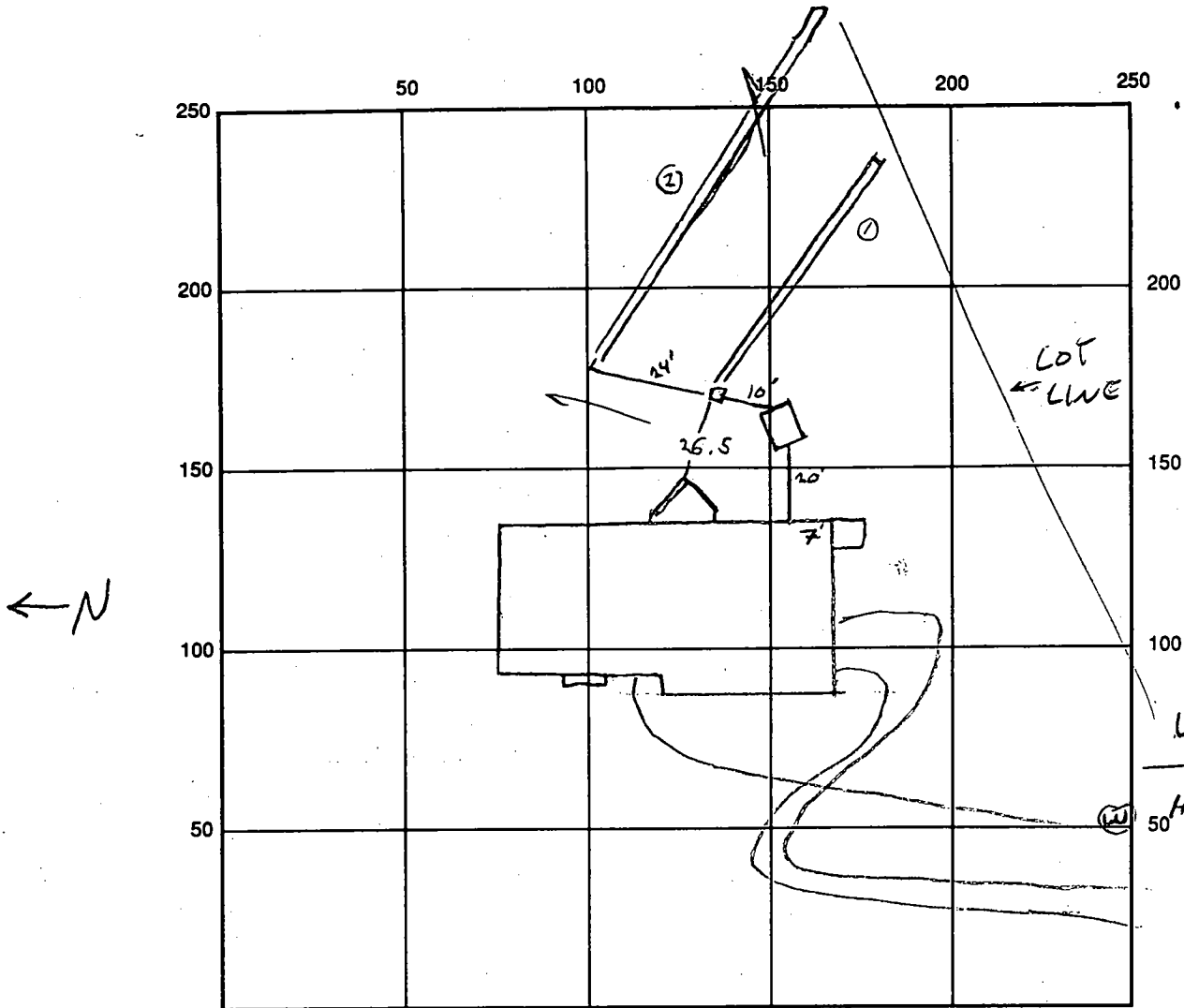
PERMIT VOID AFTER TWO YEARS

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 56361A



W.P.I. 10/10/96  
 ok for  
 Ho. 940751  
 SEALS CAP  
 NEEDED

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL OK CLEANOUTS 1 ON TANK - OK  
 DISTRIBUTION BOX LEVEL OK - RAFFLE IN  
 DRAIN FIELD/TITLE DEPTH 7 FT. TRENCH WIDTH 2 FT. INLET DEPTH 3 FT.  
 EFFECTIVE GRAVEL DEPTH 4 FT. TOTAL LENGTH  $\frac{1}{2} \times \frac{100}{100} + 17$  FT. = 183  
 NUMBER OF TRENCHES 2 ONE SIDEWALL/BOTTOM AREA 732 SQ. FT.  
 DRYWALL INSIDE DIAMETER — FT. EFFECTIVE DEPTH BELOW INLET — FT.  
 ABSORBENT AREA — SQ. FT.

REMARKS: 10-7-96 COMPLETED SYSTEM LAYOUT WALK OVER WITH S. CARROLL BACKHOE.  
TOPOGRAPHY MAY NOT ALLOW APPROVED LAYOUT, OK TO MOVE AS NEEDED. IF TWO 90' TRENCHES  
FIT IN TOP OF SOA, THEN NO NEED TO MAINTAIN 25' SPACING BETWEEN THEM.  
TANK NOT FEASIBLE AT APPROVED LOCATION DUE TO SLOPE - FULL UTILIZATION OF SOA  
IN PRESENT LOCATION - CLEARANCE TO PROPOSED DECK MAY BE 5-10' GS. 10-9-96  
INSTALLATION PROCEEDING PER PLAN, OK TO START 1ST TRENCH. OK TO COVER 1ST TRENCH

DATE SYSTEM APPROVED 10/10/96 INSPECTOR [Signature]  
 ok to start 2nd TRENCH (15' SHORT). [Signature]

Schedule of Lot  
Numbers for A56361-A

F-96-77 - Lot # 1

F-97-17 - Lot # 4

\* not recorded as of

8/29/96

AMM

# APPLICATION

PERCOLATION TESTING

A 56361A

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 313-2640

DISTRICT \_\_\_\_\_

DATE 12-5-95

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 BOWEN AND BRANSON

ADDRESS HALL SHOP ROAD HOWARD CO, MD. PHONE \_\_\_\_\_

DEVELOPER  
AGENT OR PROSPECTIVE BUYER LAND DESIGN AND DEVELOPMENT, INC.

ADDRESS 10805 HICKORY RIDGE COLUMBIA PHONE 740-2100  
MARYLAND 21044

PROPERTY LOCATION:

SUBDIVISION FULTON MANOR EAST LOT NO. 74

ROAD AND DESCRIPTION CAROL DRIVE & POINT RIDGE DRIVE OFF OF  
PLEASANT VIEW DRIVE

TAX MAP 70 & 41 PARCEL # \_\_\_\_\_

SIZE OF LOT 70,000 S.F. ± 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.

Robert H. Welton AGENT  
(SIGNATURE OF APPLICANT) LDD

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

56361A

COUNTY #

Lot 1 + 2

SOIL PROFILE A

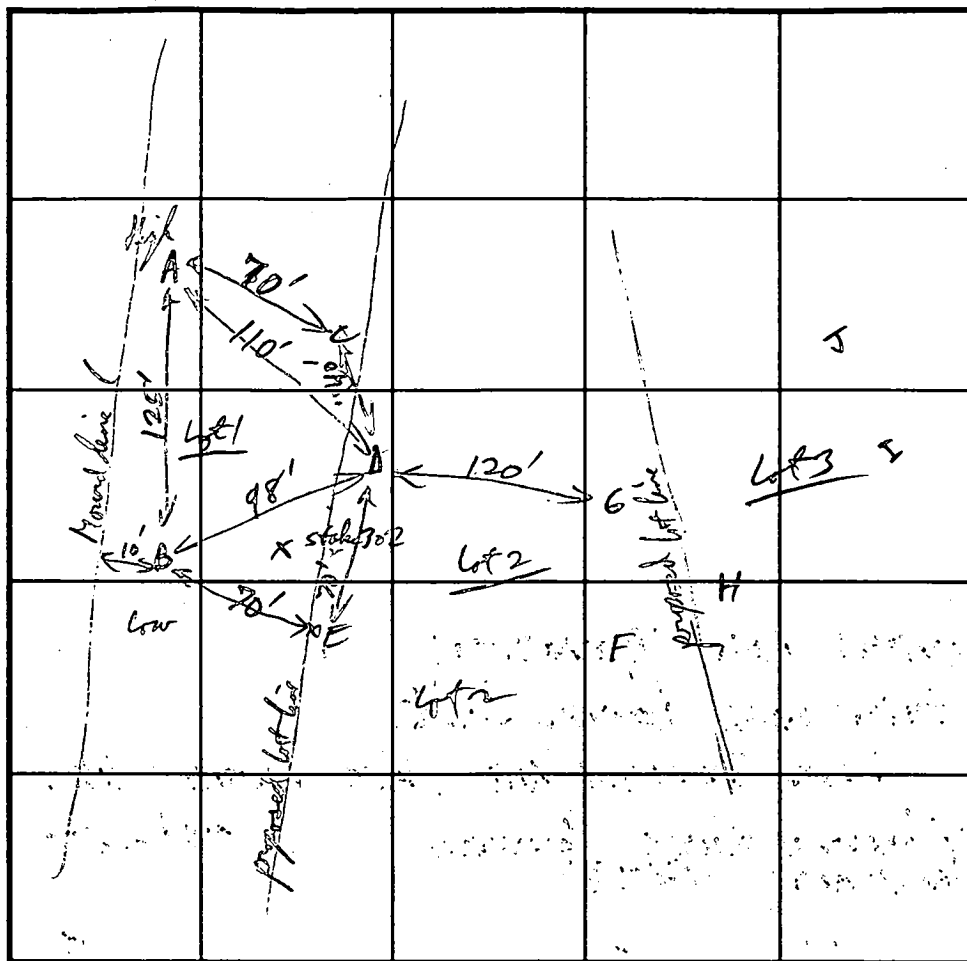
0'	Red CL
5 1/2'	Red-brown Mica loam
9 1/2'	White loam + some white fossil -SL
	Red

B

3 1/2'	Dark Red loam CL
4 1/2'	Stb loam HL
6 1/2'	pale sandy loam Mica LSL
12 1/2'	very pale gray loam mix + gray white FSL -LS

(305) E

2 1/2'	Red loam -Stb loam CL
4 1/2'	strong loam HL (micaceous)
8'	yellow loam SL-LS
	Mix + Red-throated loam Mica SL
10'	Mix + Dark gray + fossiliferous FSL (u. Mica)



SOIL PROFILE D

0'	Red loam CL
2'	Red loam - yellow loam Coh SL-L
3 1/2'	Neutral loam - olive drab + black Mica loam
5 1/2'	Neutral loam Mica SL
11 1/2'	Hbl C Red loam CL
2 1/2'	Red-yellow loam SL
7 1/2'	pale tan - white FSL - sand
10 1/2'	

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

per holes were 1 ft square or larger diameter.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
10/3/95	A	10 1/2' 4 1/2'	10:55:20	10:56:32	10:57:42		
	Lot 1	refilled 4 1/2' bottom	11:08:25	11:10:05			Too fast
	B	10 1/2' 4 1/2'	11:14:17	11:16:07	11:16:17	11:19:30	3 mins
	Lot 1 (3) C	10 1/2' 4'	11:35:40	11:39:50	11:39:50	11:42:30	2 1/2 mins
	Lot 2 (305) E	12' 4'	11:23:51	11:26:20	11:26:20	11:31:00	5 mins
	Lot 2 (309) D	11 1/2' 4'	11:33:20	11:35:20	11:35:20	11:39:30	4 mins

REMARKS: Generally soils very sandy (SL-LS) below 7', some like with v. dark brown mica loam deep suggest increased water tables, even for hill side.

TYPE OF SOIL: \_\_\_\_\_

TESTED BY: RJP [Signature] ALSO PRESENT: \_\_\_\_\_

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME: 4 min TRENCH WIDTH: 2

INLET DEPTH: 3 MAXIMUM BOTTOM DEPTH: 7 SQ. FT./BEDROOM: 180

C1 4187

SEQUENCE NO. (MDE 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)

FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE

COUNTY NUMBER A56361A

ST/CO USE ONLY. DATE RECEIVED

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER Hamelton E. Reel STREET OR RFD Carol Drive TOWN Highland SUBDIVISION Fulton Honor East SECTION LOT 4

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 (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Rows include Top Soil, Sandy, Sand Stone, MICICA, Sand Stone, MICKA.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) (N) TYPE OF GROUTING MATERIAL (Circle one) CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 14 NO. OF POUNDS 1400

CASING RECORD

MAIN CASING TYPE (PL) Nominal diameter top (main) casing (nearest inch)! 6 Total depth of main casing (nearest foot) 45

OTHER CASING (if used)

SCREEN RECORD (HO) OPEN HOLE

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED (Y) (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...

TYPE: MWD/MSD/MGD DRILLERS LIC. NO. 116

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 112

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q

C 3

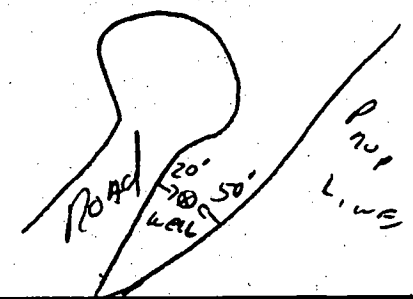
PUMPING TEST

HOURS PUMPED (nearest hour) 6 PUMPING RATE (gal. per min.) 2 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 25 WHEN PUMPING 28.5 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. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE (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)

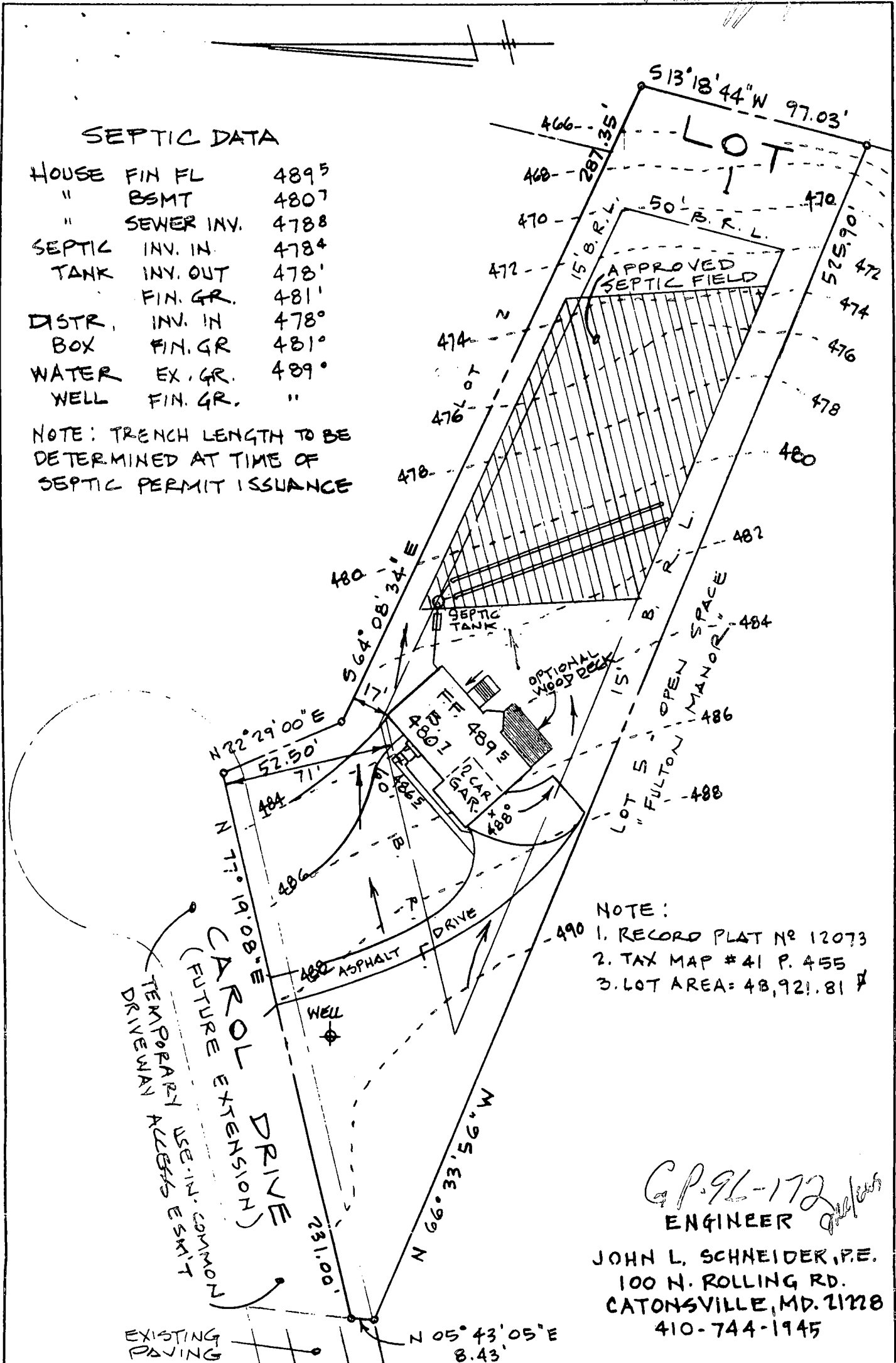


*Subdivided by plat 12073*

**SEPTIC DATA**

HOUSE	FIN FL	489.5
"	BSMT	480.7
"	SEWER INV.	478.8
SEPTIC	INV. IN.	478.4
TANK	INV. OUT	478.1
	FIN. GR.	481.1
DISTR.	INV. IN	478.0
BOX	FIN. GR.	481.0
WATER	EX. GR.	489.0
WELL	FIN. GR.	"

NOTE: TRENCH LENGTH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE



- NOTE:
1. RECORD PLAT NR 12073
  2. TAX MAP #41 P. 455
  3. LOT AREA = 48,921.81

*G.P. 96-172*  
**ENGINEER**  
 JOHN L. SCHNEIDER, P.E.  
 100 N. ROLLING RD.  
 CATONSVILLE, MD. 21228  
 410-744-1945

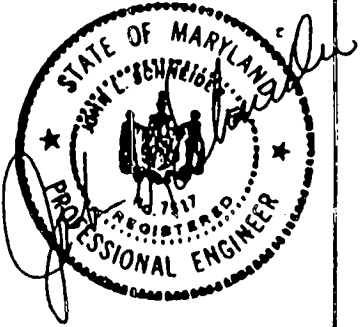
**GRADING STUDY**

**LOT 1 "FULTON MANOR EAST"**

**5th ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND**

SCALE: 1" = 50'

DATE: MAY 8, 1996

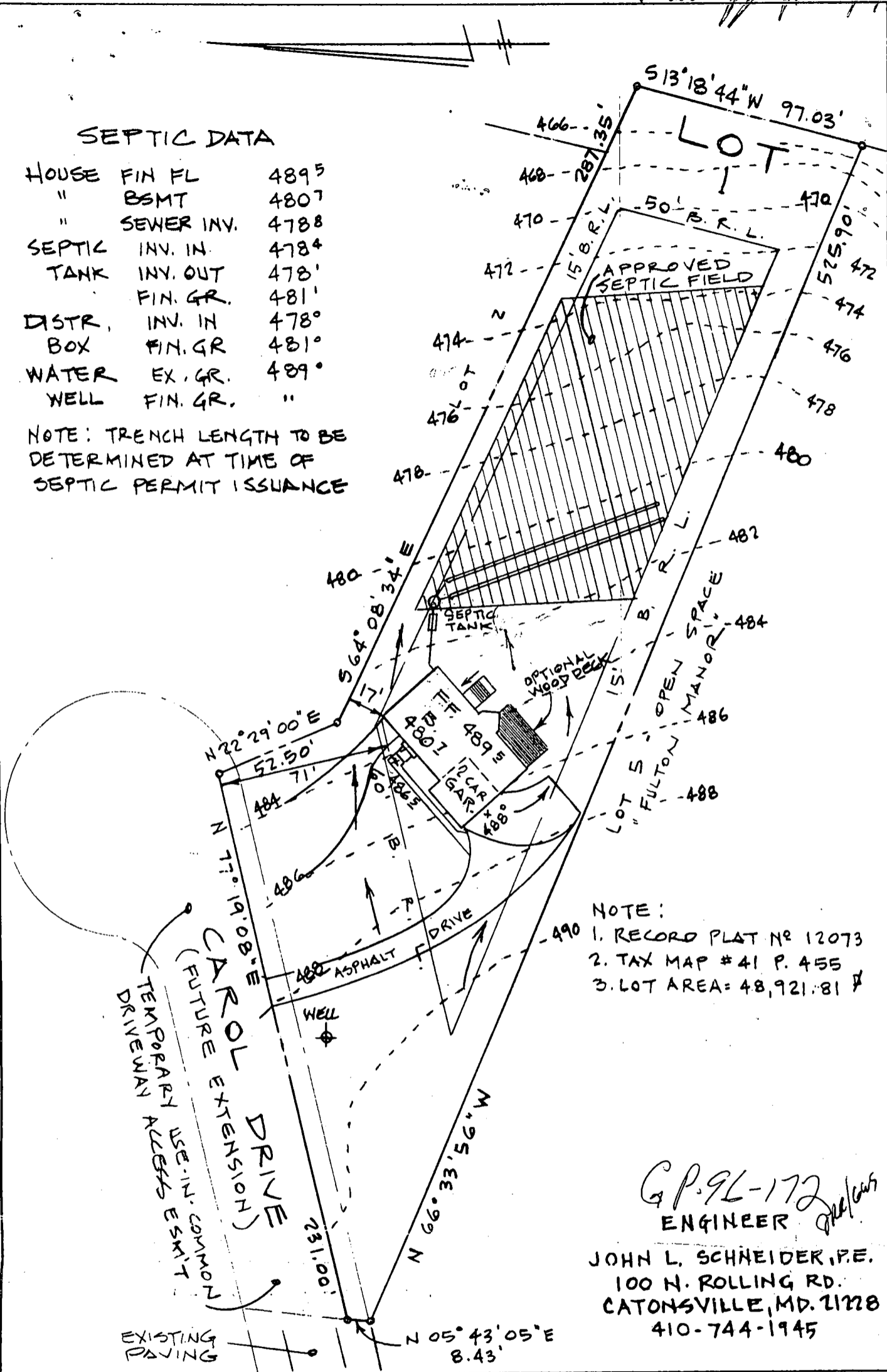


Butler's Copy left here 9/22/96

SEPTIC DATA

HOUSE	FIN FL	489.5
"	BSMT	480.7
"	SEWER INV.	478.8
SEPTIC	INV. IN.	478.4
TANK	INV. OUT	478.1
	FIN. GR.	481.1
DISTR.	INV. IN	478.0
BOX	FIN. GR.	481.0
WATER	EX. GR.	489.0
WELL	FIN. GR.	"

NOTE: TRENCH LENGTH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE



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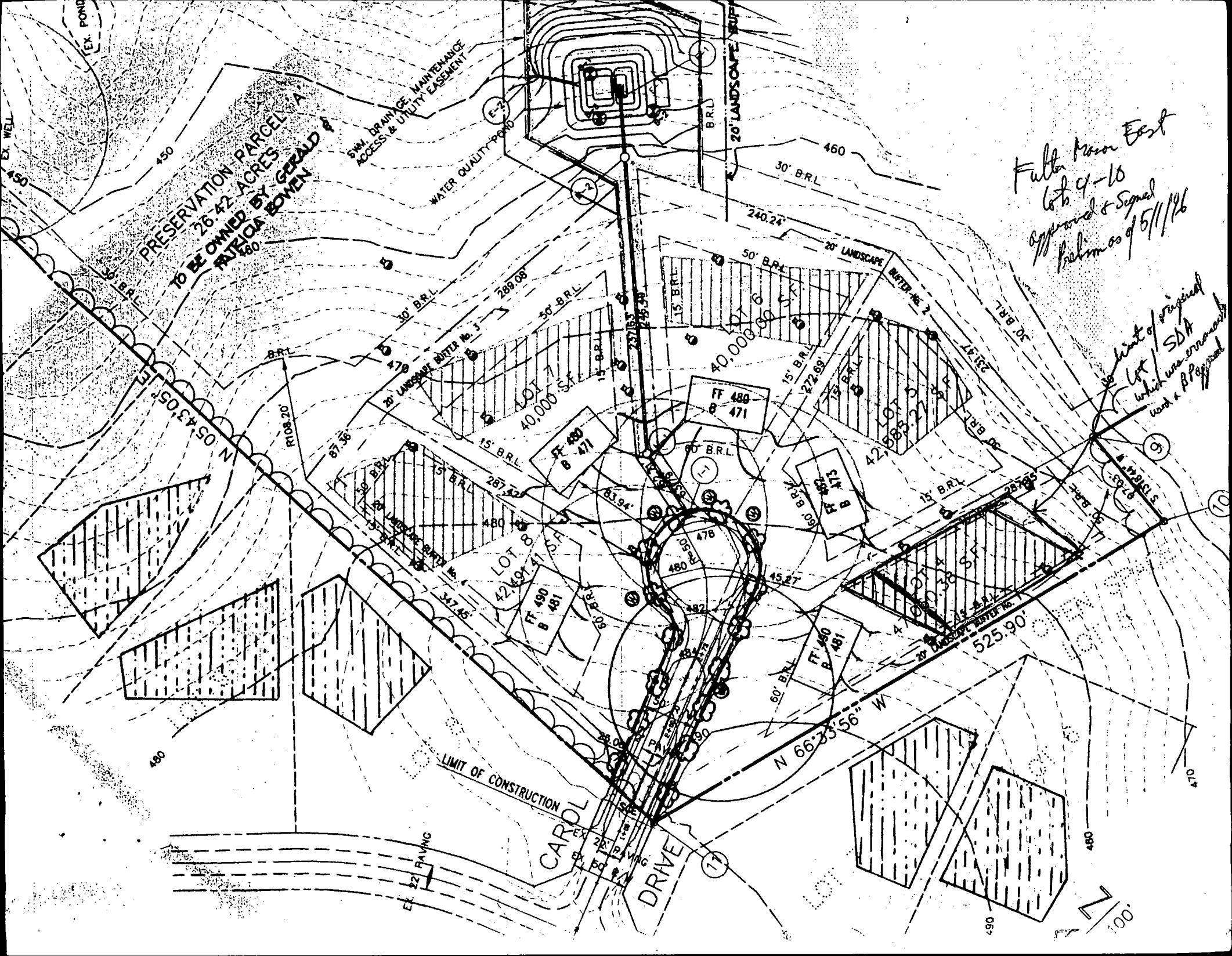
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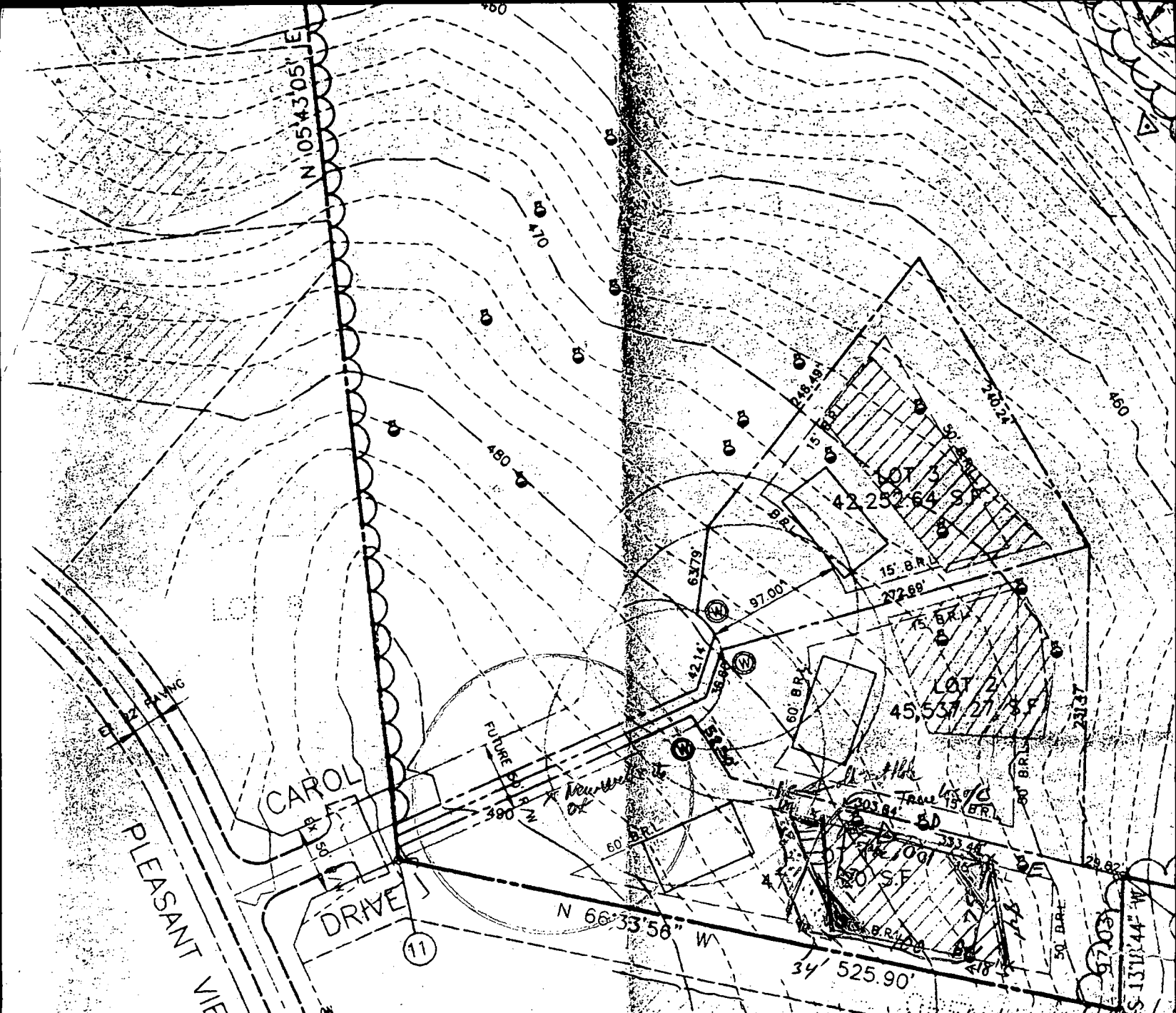
GRADING STUDY  
LOT 1 "FULTON MANOR EAST"  
5<sup>TH</sup> ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE: 1" = 50'  
*(Note: Not to Scale)*

DATE: MAY 8, 1996







4/11/86 H. P. H. H. H.  
 Meet M. at site

To inspect Engineers stake off  
 of SDA per request letter & yesterday's meeting.  
 Only front 2 stakes are New to Mark front limit  
 of SDA as shown on plan. Rear stakes were Not evident  
 for Northeast property, Marked. Based on 2 markers for  
 Southwest lot line (525.90') and old perk's stakes for lot 1 & 2  
 and physical location of tree holes, the SDA is only 75ft  
 wide and would need to be 134' (ave) \* 19,000 sq ft area. The shaded area  
 = 1000 sq ft ± is not usable due to poor contour orientation.  
 Dotted area above make up the loss to 19,000 sq ft usable area  
 but yields a very tight House site.

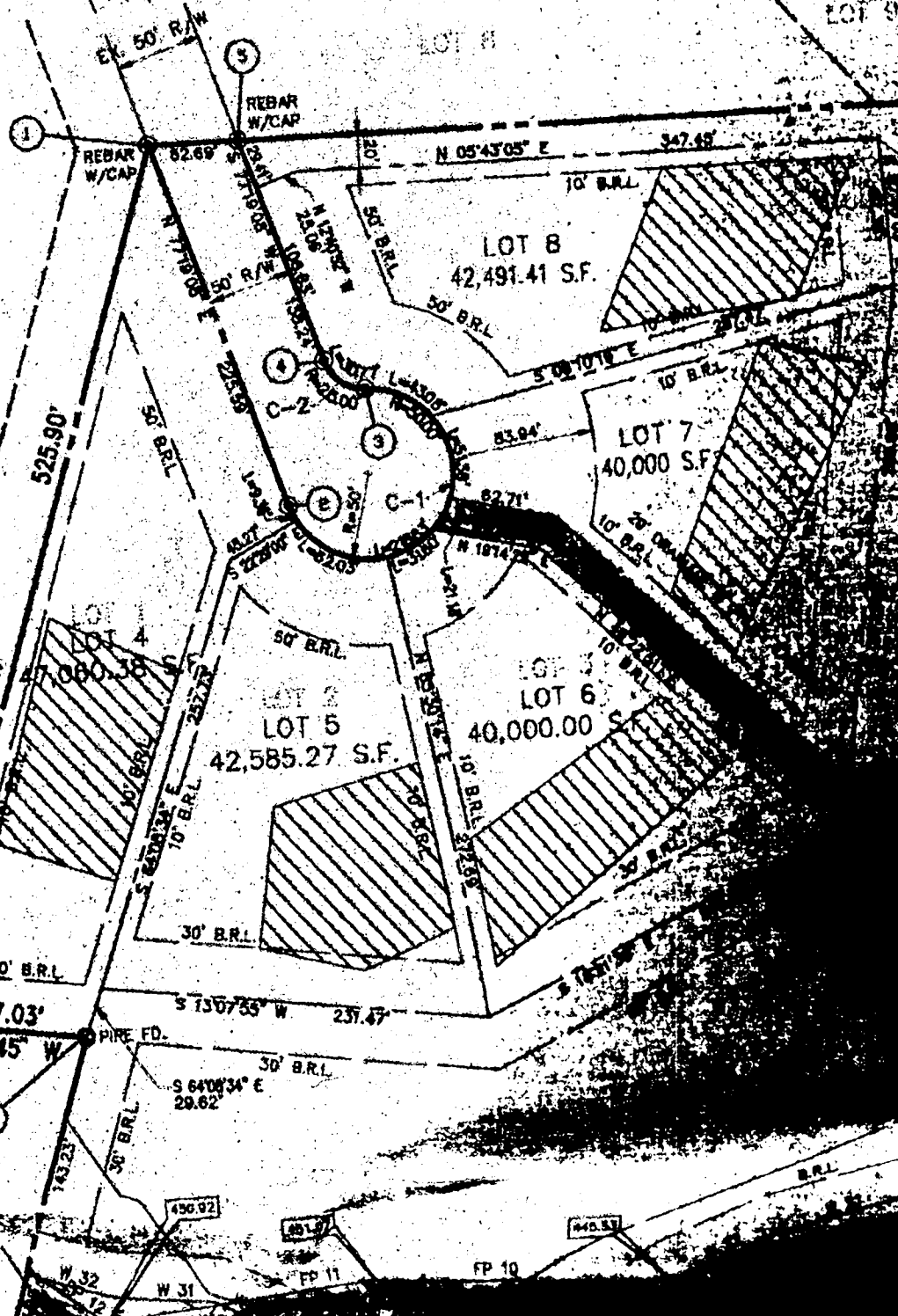
**COPY OF SIGNED PERC PLAN**

**PLAN**  
 SCALE 1" = 100'

NO CLEARING TO BE ALLOWED WITHIN WETLANDS & STREAM BUFFERS OR FOREST CONSERVATION AREA.

DRIVE ROLL

E 1329750  
N 551250



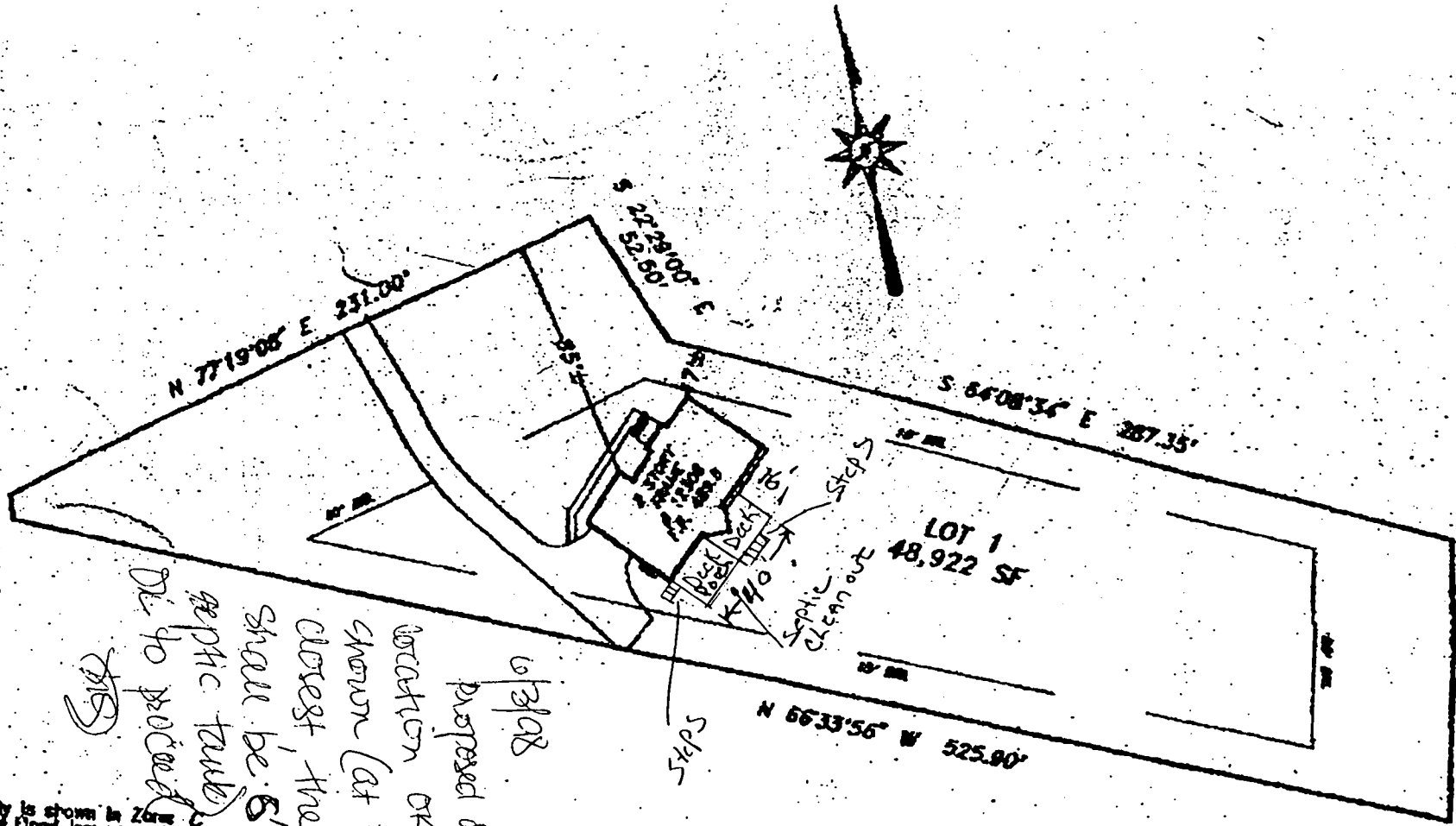
15  
TREE (PROP. COR.) 13'18'45" W  
97.03'

14

PIPE SPAN

FP 12 W 32  
FP 11 W 31  
FP 10 W 30





*Proposed deck location OK as shown (at the closest, the post shall be 6' from septic tank) DE TO PROCEED THIS*

Property is shown in Zone C National Flood Insurance Program Service Area Map of Howard County, Maryland, Page 2 of 45, My Parcel # 240044-00 379 Date: December 5, 1996

I hereby certify that I have surveyed the property shown hereon, known as LOT 1 12306 CAROL DRIVE in the Land Records of Howard County, Maryland BL 12073 Liber Folio for the purpose of locating the improvements thereon.

This is of benefit to the consumer only insofar as it is required under or a title insurance company or its agent in connection with a transfer, financing, or refinancing purpose. It is not to be relied upon for the establishment of location of easements, garages, buildings, or other existing or future structures. It does not provide for the accurate identification of proprietary lines, but such identification may not be required for transfer of title or for securing financing or refinancing.



J. Carl Higgins PLS 796

LOCATION DRAWING  
12306 CAROL DRIVE  
FULTON MANOR EAST  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

NTT Associates, Inc.  
16205 Old-Fredrick Road  
Mt. Airy, Maryland 21771  
Ph. (410)442-2031  
Fax No. (410)442-1315

Scale:	1"=60'
Date:	NOVEMBER 23, 1996
Field by:	JLM
Drawn by:	JLM
Drawing #:	K3427