

4/18/96  
12/22/96  
11/00/96  
7/23/96  
10.30-11

04-347277  
05

04-347285  
3

# PERMIT

## SEWAGE DISPOSAL SYSTEM

### DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 56984

A 37529

DISTRICT 4th

DATE 6/14/96

#### HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

~~461-9933~~ 313-2640

DATE SYSTEM APPROVED 7/23/96

INSPECTOR *[Signature]*

INDEXED

South Carroll Backhoe, Inc. IS PERMITTED TO INSTALL  ALTER

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

SUBDIVISION The Knolls LOT 3 ROAD 3405 Shady Lane

PROPERTY OWNER Howard & Katherine Rensin

ADDRESS **BUILDING PERMIT SIGNED**

SEPTIC TANK CAPACITY 1500 GALLONS **AND RETURNED**

NUMBER OF BEDROOMS 5

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 225

TRENCHES - Trench to be 2 feet wide. Inlet 5 feet below original grade. Bottom maximum depth 9 feet below original grade. Effective area begins at 5 feet below original grade. 4 feet of stone below distribution pipe.

LOCATION - Place the distribution box 90 feet from the front lot line and 85 feet from the right side of the lot as seen when facing the lot from Shady Lane. Run the trenches on contour in both directions.

NOTES - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. *OK 5/4/95 DKS*

**PERMIT SIGNED AND RETURNED 7-2-97**  
*Serial # B0106024*  
*phone pole + back entrance*  
*yellow*

PLANS APPROVED BY Raymond Hodges/Mark Rifkin REVISED DATE 02/03/94

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

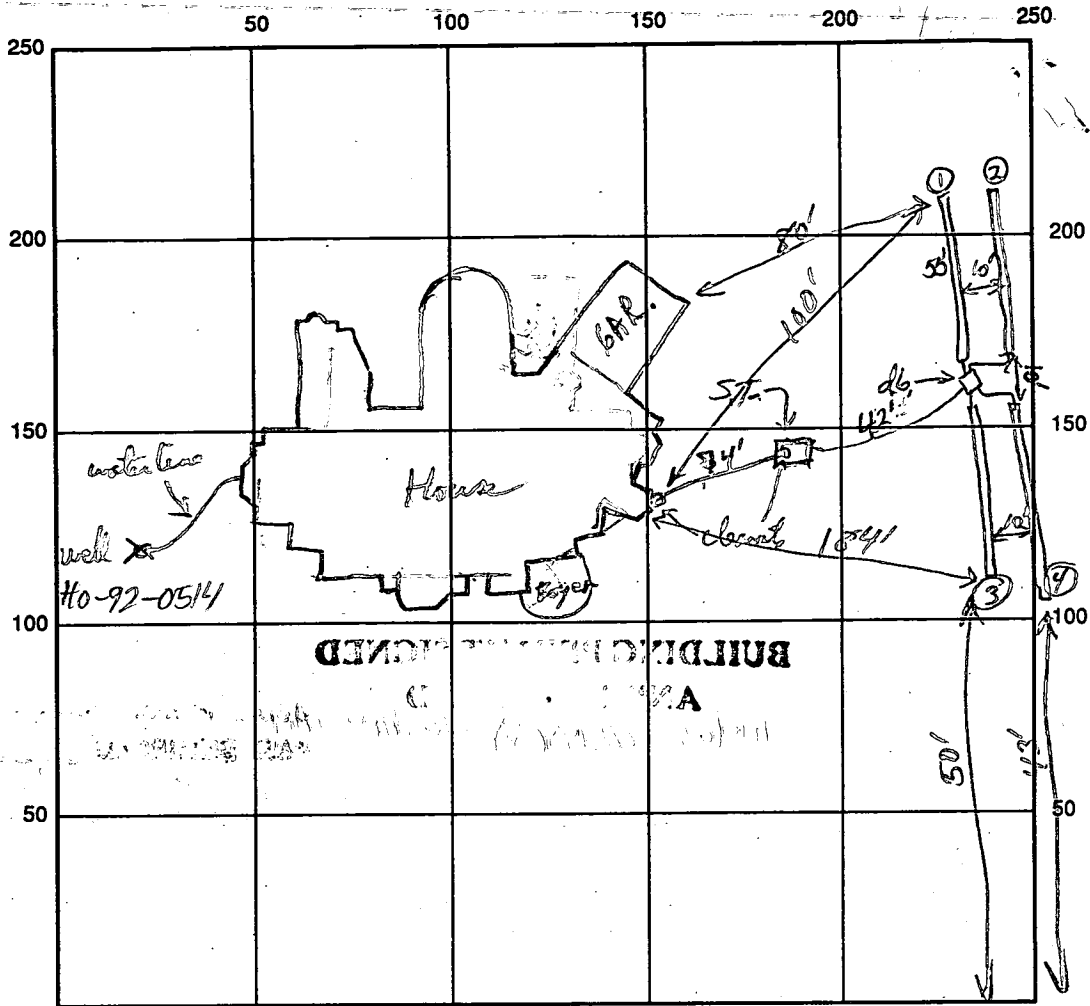
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON, CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET. MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

**PERMIT SIGNED AND RETURNED 7-14-99**  
*Serial # B0119319*  
*Ground Prod.*

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

A 37529



Shady Lane INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL 1500 oad CLEANOUTS S.T. ✓ + House ✓

DISTRIBUTION BOX LEVEL ✓

DRAIN FIELD/TITLE DEPTH 9 FT. TRENCH WIDTH 2 FT. INLET DEPTH 5 FT.

EFFECTIVE GRAVEL DEPTH 4 FT. TOTAL LENGTH 55/600 FT.

NUMBER OF TRENCHES 4 ONE SIDEWALL/BOTTOM AREA \_\_\_\_\_ SQ. FT.

DRYWALL INSIDE DIAMETER \_\_\_\_\_ FT. EFFECTIVE DEPTH BELOW INLET \_\_\_\_\_ FT.

ABSORBENT AREA \_\_\_\_\_ SQ. FT.

REMARKS: OK to cover House Connector & set traps PIP 7/18/96 s.t., Hse Conn, + line from ST-DB covered  
Call for open Trench Insp. PIP 7/19/96  
7/22/96 OK to cover 1st trench and continue. DS  
Final Trenches OK to cover PIP 7/23/96

WPI - letter about OK to cover at 4 1/2 ft. PIP 7/18/96 South County (P. Smith 410-876-6100)

DATE SYSTEM APPROVED 7/23/96 INSPECTOR [Signature]

Rec'd  
10/17 & 10/18

# APPLICATION

SEWAGE DISPOSAL TESTING

A 37529

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
ENVIRONMENTAL HEALTH SERVICES

DISTRICT \_\_\_\_\_

P. O. BOX 476 ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 992-2330

DATE August 15, 1986

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 ~~Justice Tract Joint Venture~~ RENSIN-Howard M.

ADDRESS 12116 Arbie Road, Silver Spring PHONE 752-7878

PROPERTY LOCATION:

THE KNOLLS

NEW 3

SUBDIVISION ~~Staten Property~~ LOT NO. 1

ROAD AND DESCRIPTION 3405 Shady Lane, 2,000 ft. south of Burntwoods Road

SIZE OF LOT 6 ac TYPE BLDG. 3  
(NUMBER OF BEDROOMS)

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.

*Ann Rensin*

(SIGNATURE OF APPLICANT)

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

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

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

REASONS FOR REJECTION OR HOLDING 10/01/86 PERC OK HOLD FOR PLAT

MAY HAVE SLIGHT LOT LINE CHANGE BY

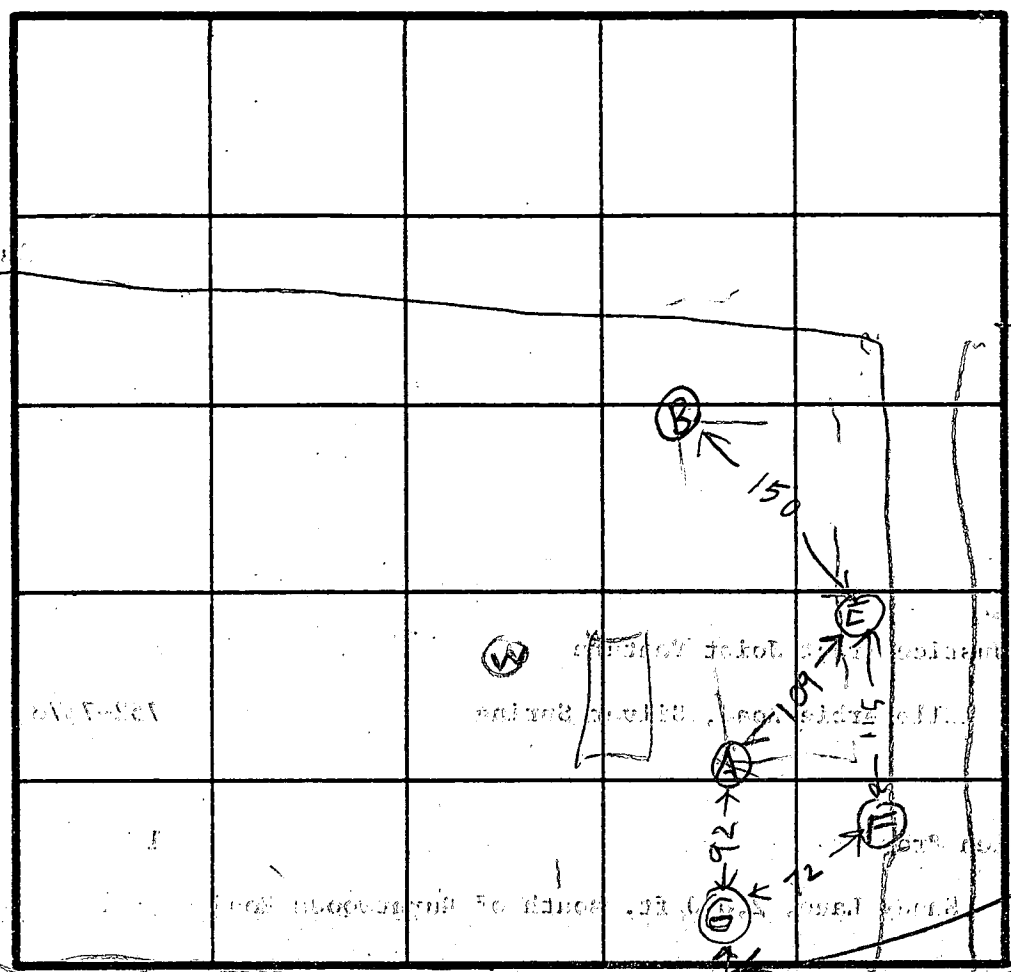
11/5/93 FINAL PLAT SIGNED BY

BLDG. PERMIT SIGNED  
AND RETURNED 4/25/93  
Serial # 58817-4 Bldg SFD

# THIS IS NOT A PERMIT

NEW 3

SECRET  
HOLE ELEVATION  
A B G HIGH  
E F LOW



SOIL PROFILE  
0'  
BROWN & REDDISH CLAY LOAM  
6'  
BROWN GRAY SAND LOAM  
14.5'  
50% SAPROLITE

0'  
BROWN RED CLAY  
3'  
LIGHT BROWN SAND LOAM  
14'

0'  
BROWN RED CLAY  
4.2'  
LIGHT BROWN SAND LOAM

0'  
BROWN CLAY  
4'  
LIGHT BROWN SAND LOAM  
12-1079

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SHADY LANE

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
10/8/86	AS	4.5	1129	1150	little perc seam		
	AV	14.5	OK Below		6 FT		
	BV	6	ROCK				
	ES	4.5	1135	1138	1138	1141	3
	EV	14	OK				
	FS	5.5	1151	1158	1158	1202	10
	FV	12	OK				
	AM	7	1159	1202	1202	1207	5
	GS	5	1223	1225	1225	1230	5
	GN	8	1223	1225	1225	1230	5
10/8/86	GV	12	OK				

avg Time 6 min  
max Depth 5 FT  
180 #/BR

REMARKS HOLE A B DUG PER SURVEYOR FLAT HOLES E F G DUG DIFFERENTLY

TYPE OF SOIL MAY HAVE TO CHANGE LOT LINES SHADY LANE

TESTED BY B HODGES A

ALSO PRESENT Z KETTERMAN



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## HOWARD COUNTY HEALTH DEPARTMENT

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*Joyce M. Boyd, M.D., County Health Officer*

April 21, 1995

To: Craig Williams, Program Director  
Water & Sewerage Program

From: Amy Mc Millen, Sanitarian  
Water & Sewerage Program

Re: BP 58817  
Owner - Howard M. & Katherine Rensin  
3405 Shady Lane  
Glenwood, MD 21738

On April 21, 1995 it came to my attention through a telephone conversation with the owner of the above referenced property, that an inlaw suite is part of the proposed 4 bedroom single family dwelling. I went to Building Permits Office to confirm this with plan reviewer George Martin and Dan . From this conversation I learned the following:

- Approximately a year ago Planning & Zoning amended the County Zoning Regulations to allow accessory apartments less than 800 square feet as part of single family homes in certain zones in the county. A letter from the owners requesting approval of the accessory apartment is necessary for P & Z recommendation for approval.
- George Martin and Dan of Building Permits Office, verbally notify the Zoning Office of these accessory apartments in new single family dwellings. This is because they are not included in the description of work authorized on the Building Permit Application.
- Up until now, no one in the building permits office was aware that the accessory apartments are of concern to this office so we have not been notified. It was verbally agreed with Dan and George Martin that they would verbally notify me (as well as Zoning Office) when an accessory apartment is proposed.

For the immediate future, the above arrangement seems to be an adequate temporary arrangement for notification to this office of proposed accessory apartments. Over time though, there is a large chance for a breakdown in this verbal agreement between reviewers in two separate agencies. Staffing of Agencies is constantly changing and thus as new employees are introduced into the review process this verbal arrangement could easily be overlooked. It is my suggestion that building permits office require applicants to include accessory apartments in the description of work authorized.

In addition, applicants for building permits consistently forget to include the number of bedrooms to be in the proposed single family dwelling. Since the size of a septic system is based on the number of bedrooms, I suggest this also be a requirement in the description of work authorized.

4-24-95  
per cw -  
treat building  
permit as though it  
is a 5 bedroom house  
(4 bedrooms + 1 bedroom  
in the inlaw suite)

Amy McMullen

C 1 8796

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)

FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE

COUNTY NUMBER R# 37539

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

030195

020794

2000

H0-92-0514

OWNER: KENNEDY HOWARD last name first name STREET OR RFD: 3405 SHADY LAVE TOWN: GLENWOOD SUBDIVISION: THE KUDLL'S 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 (Use additional sheets if needed), FEET (FROM, TO), Check if water bearing. Rows include: TOP soil, brown shale, gray mica, clay, gray mica, Flint + gray mica, Flint + gray mica, Flint + gray mica, Flint + gray mica.

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

NO. OF BAGS: 11 NO. OF POUNDS: 1100 GALLONS OF WATER: 55 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 36 ft.

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): 40

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

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

DEPTH (nearest ft.) H0 35 300

CIRCLE APPROPRIATE LETTER 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...

DRILLERS IDENT. NO. DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

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

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

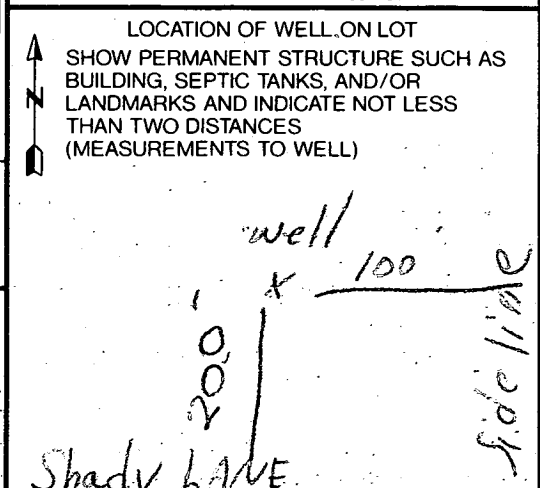
OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.), WQ (74-75-76) TELESCOPE CASING, LOG INDICATOR, OTHER DATA

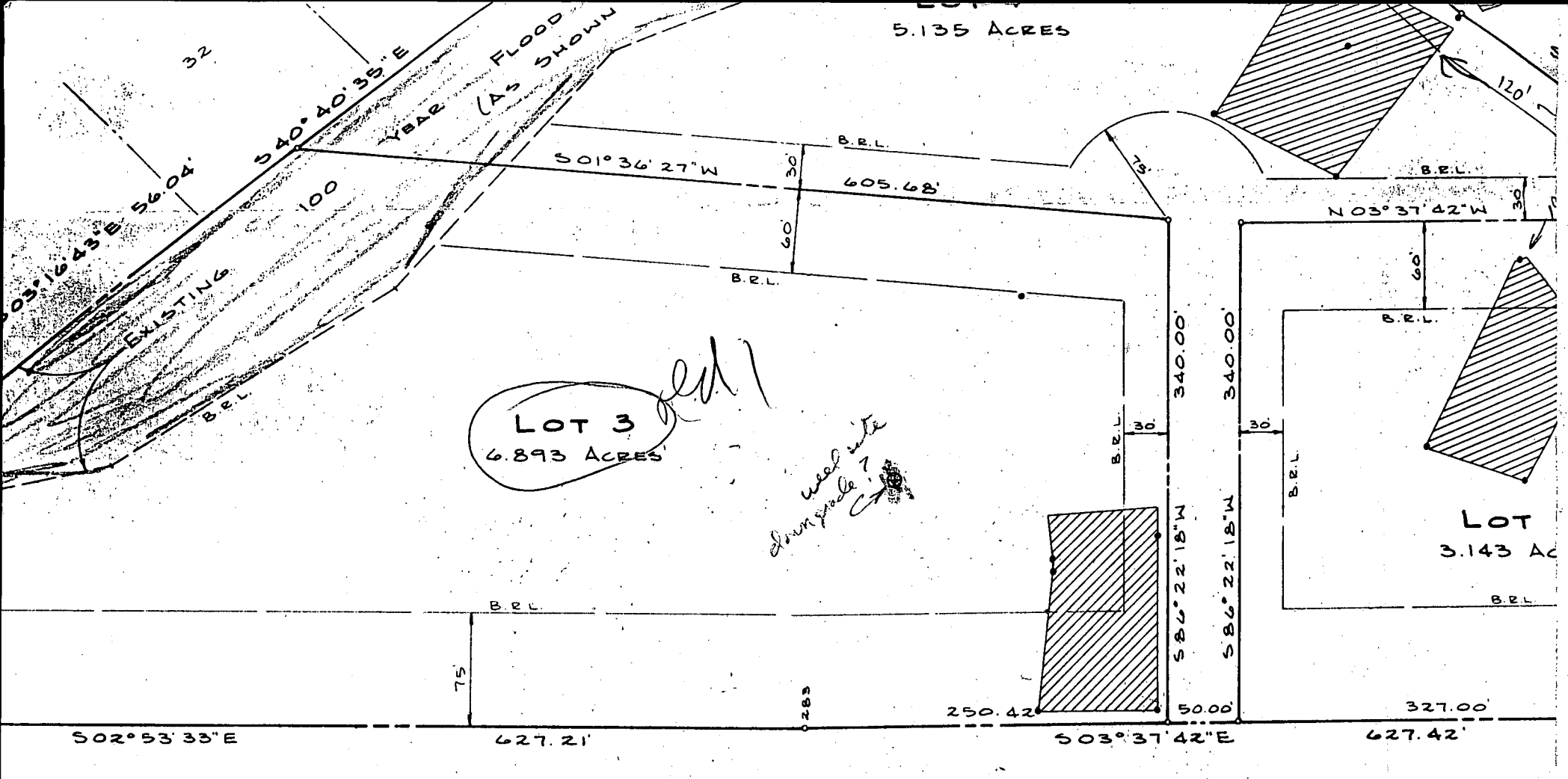
C 3

PUMPING TEST HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min. to nearest gal.) 15 METHOD USED TO MEASURE PUMPING RATE: Curve WATER LEVEL (distance from land surface) BEFORE PUMPING: 34 WHEN PUMPING: 68 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) (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) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE (nearest foot)





SHADY LANE

*Signed Final  
The Kholls*

**OWNER'S CERTIFICATE**

I, CAROL McMAHON-THRONBURG, OWNER OF THE PROPERTY SHOWN AND DESCRIBED HEREON HEREBY ADOPT THIS PLAN OF SUBDIVISION, AND IN CONSIDERATION OF THE APPROVAL OF THIS FINAL PLAT BY THE OFFICE OF PLANNING AND ZONING, ESTABLISH THE MINIMUM BUILDING RESTRICTION LINES AND GRANT UNTO HOWARD COUNTY, MARYLAND, ITS SUCCESSORS AND ASSIGNS; (1) THE RIGHT TO LAY, CONSTRUCT AND MAINTAIN SEWERS, DRAINS, WATER PIPES AND OTHER MUNICIPAL UTILITIES AND SERVICES, IN AND UNDER ALL ROADS AND STREET RIGHT-OF-WAYS AND THE SPECIFIC EASEMENT AREAS SHOWN HEREON; (2) THE RIGHT TO REQUIRE DEDICATION FOR PUBLIC USE THE BEDS OF THE STREETS AND/OR ROADS AND FLOOD PLAINS AND OPEN SPACE WHERE APPLICABLE, AND IN FULL AND COMPLETE CONSIDERATION, HEREBY GRANT THE RIGHT AND OPTION

FOR HOWARD COUNTY,  
DEPARTMENT FOR PRIVATE WATER  
SEWAGE SYSTEMS.

HEALTH OFFICER                      DATE

HOWARD COUNTY  
PLANNING AND ZONING

Age \_\_\_\_\_ of \_\_\_\_\_  
 Date \_\_\_\_\_

2-2-94 12:00

Review OK 3/1/94 DKS

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

Well Permit No. HO - 92-0514  
 Location of property (road) 3405 SHADY LANE  
 Subdivision THE KNOLLS Lot 3 Block \_\_\_\_\_ Plat \_\_\_\_\_ Sec. \_\_\_\_\_  
 Well Driller G.F. EASTER DAY Owner H. RENSIN

Depth of well 300 15GPM  
 Distance of measuring point (M.P.) above ground 24"  
 Static water level (S.W.L.) below M.P. 34.5'

**I. High rate pumping -- reservoir drawdown**

Time pump started 12:15 Pumping rate 12 GPM  
 Total time 30 min to reach pumping water level 68 ft. below M.P.

**II. 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 #1 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
12:45	68	5 sec	Pump Set / 200' <i>Jim Weir</i>	12
1:00	68	5 sec		12
1:15	68	5 sec		12
1:30	68	5 sec		12
1:45	68	5 sec		12
2:00	68	5 sec		12
2:15	68	5 sec		12
2:30	68	5 sec		12
2:45	68	5 sec		12
3:00	68	5 sec		12
3:15	68	5 sec		12
3:30	68	5 sec		12
3:45	68	5 sec		12

32

33

Ch B2

MnD

Ch C2

Ch B2

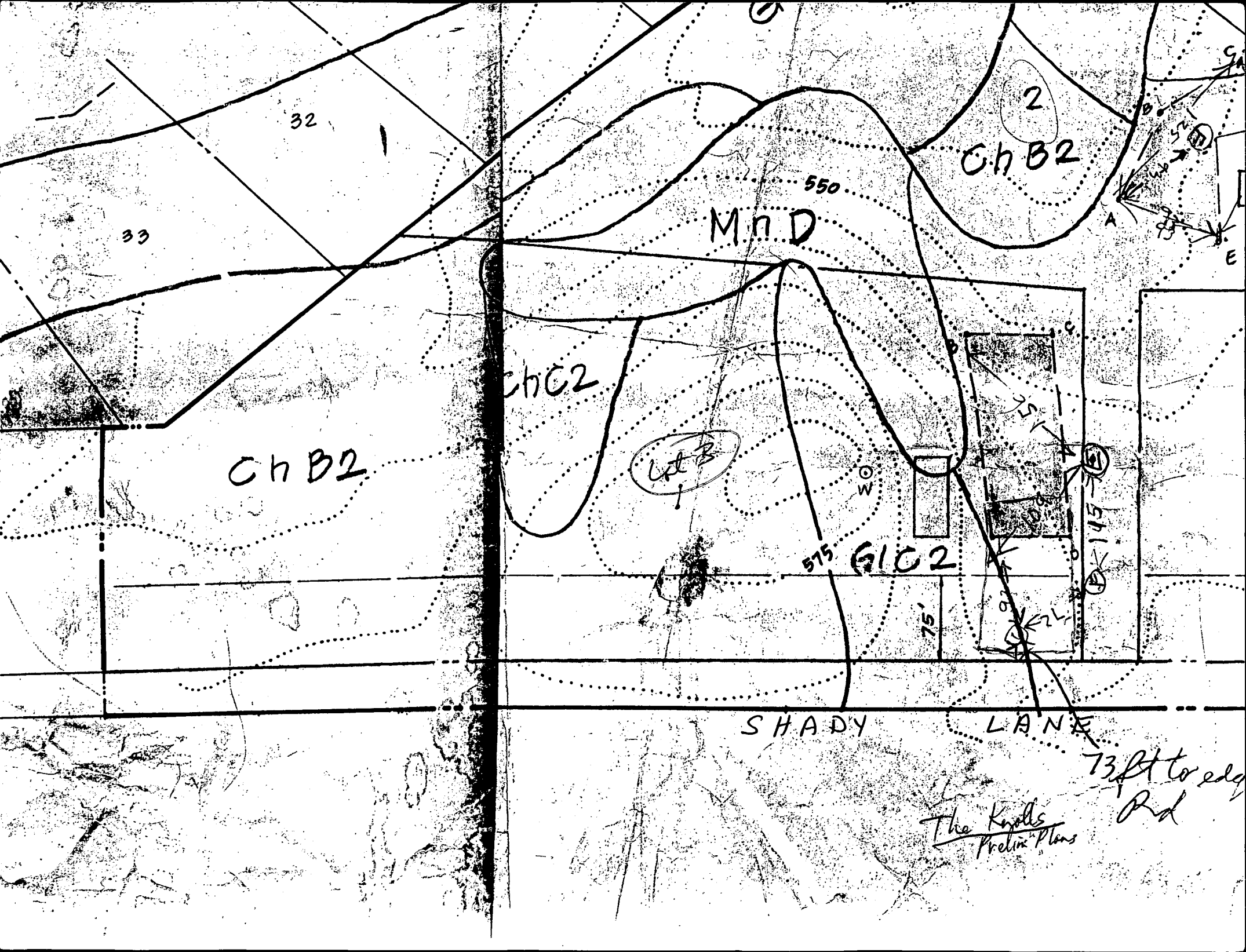
Lot B

GIC2

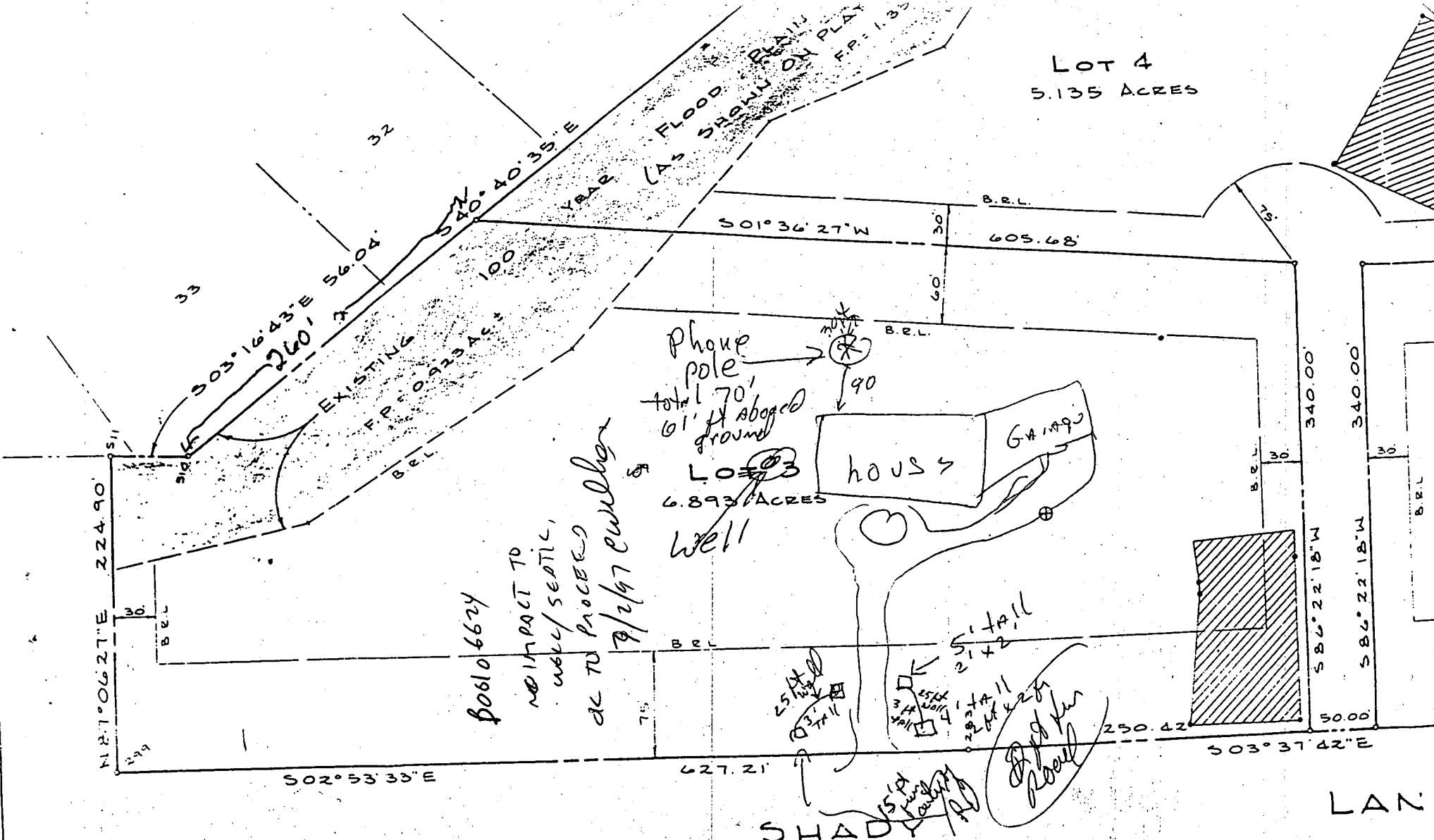
SHADY LANE

The Knolls  
Prelim Plans

73 ft to edge  
Pd



LOT 4  
5.135 ACRES

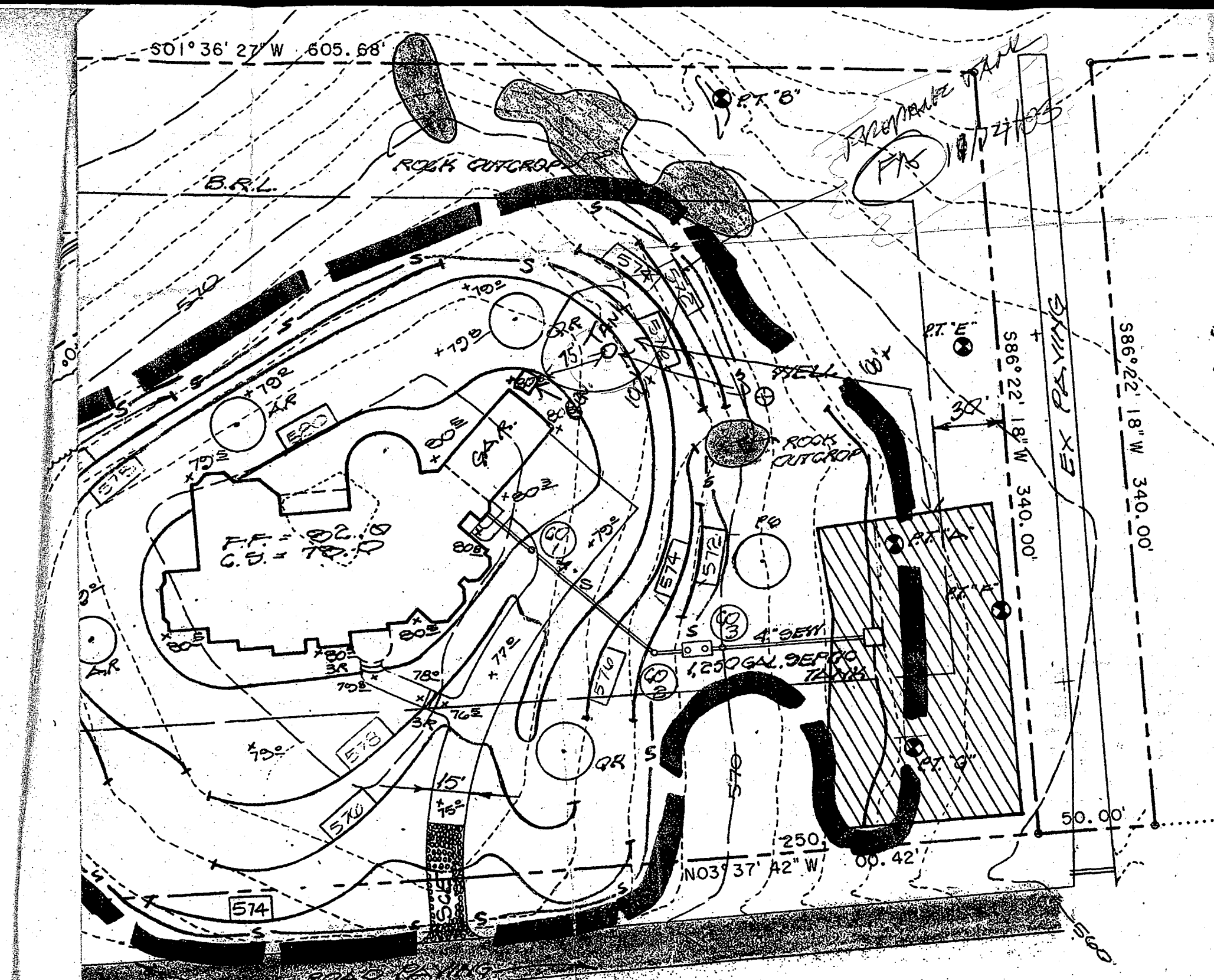


APPROVED: For HOWARD COUNTY,  
 PUBLIC UTILITIES - For PRIVATE WATER  
 SERVICE SYSTEMS.

*[Signature]* 3-22-99

OWNER'S CERTIFICATE

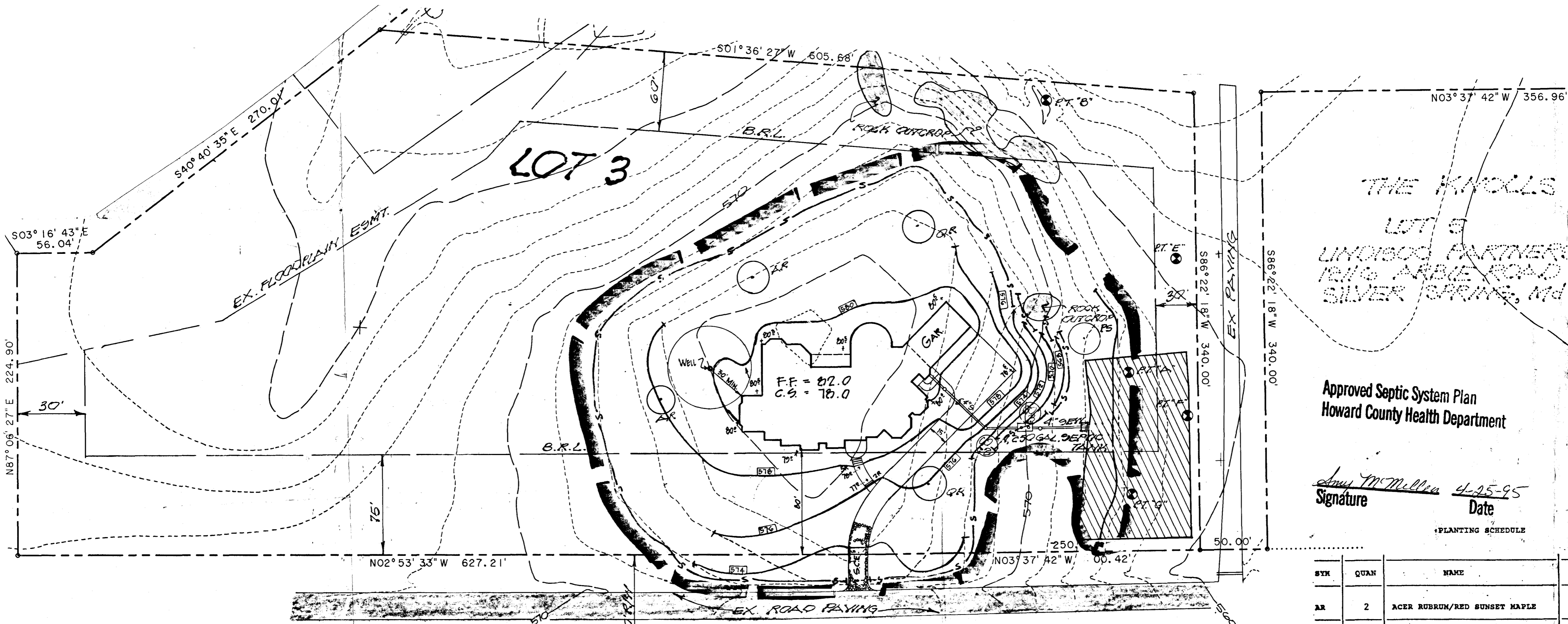
HEREBY ADOPT THIS PLAN OF SUBDIVISION, AND IN CONSIDERATION OF THE APPROVAL  
 PLAT BY THE OFFICE OF PLANNING AND ZONING, ESTABLISH THE MINIMUM BUILD



**4" SEWER HOUSE CONNECTION**

**CLEAN OUT INVERT ELEVATIONS**

C/O 1 INV. IN=75.5    INV. OUT=71.22  
 C/O 2 INV. IN=69.82    INV. OUT=66.72  
 SEPTIC TANK INV. IN=66.48



THE HILLS  
 LOT 3  
 UNDISCO PARTNER  
 1216 ARBIE ROAD  
 SILVER SPRING, MD

Approved Septic System Plan  
 Howard County Health Department

*Ann McMillan* 4-25-95  
 Signature Date

PLANTING SCHEDULE

SYM	QUAN	NAME	
AR	2	ACER RUBRUM/RED SUNSET MAPLE	2
QR	2	QUERCUS RUBRA/RED OAK	2
PS	1	PINUS STROBUS/WHITE PINE	6

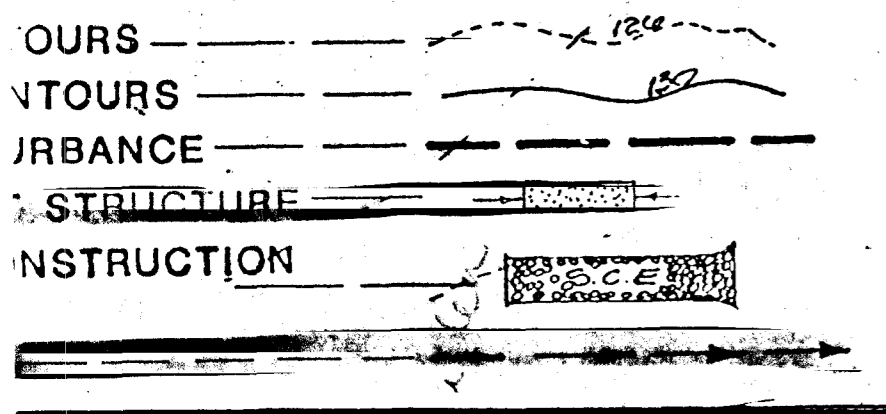
SHADY LANE 4" SEWER HOUSE CONNECTION

**CLEAN OUT INVERT ELEVATIONS**

C/O 1 INV. IN=73.20 INV. OUT=70.50  
 C/O 2 INV. IN=69.66 INV. OUT=66.30  
 SEPTIC TANK INV. IN=65.86  
 INV. OUT=65.61  
 C/O 3 INV. IN=65.47 INV. OUT= 61.50  
 DIS. BOX INV. IN=60.5  
 INV. OUT=60.5

EXIST. ELEV. AT SEPTIC TANK =70.0  
 EXIST. ELEV. AT TRENCH =64.3  
 INV. ELEV. OUT OF HOUSE =73.50  
 EXIST. ELEV. AT DIST. BOX =64.2

TOTAL AREA 300,259.08 S.F.=6.893 AC.  
 DISTURBED AREA 101,718.95 S.F.=2.335 AC.  
 RECOVERY AREA 10,927.52 S.F.=0.2508 AC.  
 PROPOSED LOT COVERAGE 17,747.53 S.F.=0.4074 AC.



DATE	BY	DESCRIPTION
12/04		
3/05	H.E.D.	REVISED SEQUENCE OF CONSTRUCTION NOTE ADD SEDIMENT NOTES AS PER HOWARD CO COMMENTS 3/0/05

**Dewberry & Davis**  
 ARCHITECTS • ENGINEERS • PLANNERS • SURVEYORS  
 10001 DEREKWOOD LANE, SUITE 100  
 LANHAM, MARYLAND 20706  
 (301) 731-5551



OWNERS: HOWARD M. RENSIN AND  
 KATHERINE K. RENSIN  
 15221 CENTERGATE DRIVE  
 SILVER SPRING, MD 20904  
 APPLICANT: C.M.A.G.  
 12507 ARROW PARK DRIVE  
 GROUND FLOOR  
 FORT WASHINGTON, MD. 20744  
 ATTN: MR. JOSEPH KEPPLER (301) 29