

Tap ID - 04-353162

# PERMIT

## SEWAGE DISPOSAL SYSTEM

### DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 50347

A 43833

DISTRICT 4th

DATE 10/27/94

#### HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

~~XXXX-9933X~~ 313-2640

DATE SYSTEM APPROVED 10/28/94

INSPECTOR [Signature]

### INDEXED

Arnold Backhoe & Septic Services

IS PERMITTED TO INSTALL  ALTER

ADDRESS P. O. Box 15, Woodbine, Maryland 21797 PHONE 795-7873

SUBDIVISION Echo Estates LOT 2 ROAD 15500 Morgan Woodbine Road

PROPERTY OWNER Mr. and Mrs. Mark Noble James Mills

ADDRESS \_\_\_\_\_

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

210 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 210 280

TRENCHES - ~~Trench to be 2 feet wide. Inlet 4.5 feet below original grade. Bottom maximum depth 8.5 feet below original grade. Effective area begins at 4.5 feet below original grade. 4 feet of stone below distribution pipe.~~

LOCATION - Starting from the lot corner at the end of the flagstem, start the first trench 207 feet up the left (535.30') lot line and 165 feet off this same lot line.

NOTES - Run trenches on contour toward Morgan-Woodbine Road.  
- No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. OK MR 12/27/93  
Revised to Shallow Trench System - 5' Bottom Box, 3' wide, 2' Stone Fill, 280 LF Total; inlet @ 30ft.

PLANS APPROVED BY Mark Rifkin REVISED DATE 11/02/93

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. 250 gal. undgd pipe tank

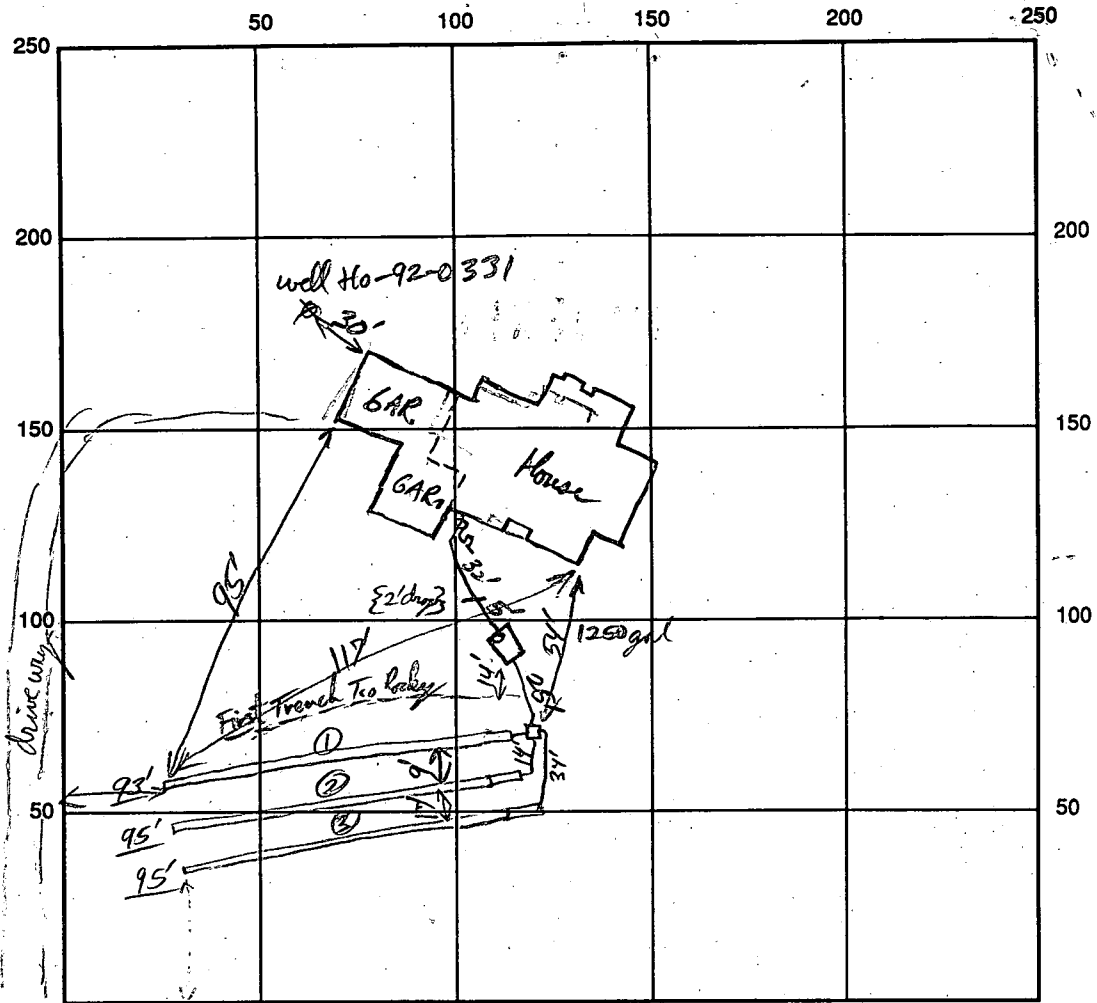
NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

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

A 43833

C/O 10/28/94  
11 AM 10/28/94  
Open trench  
11 AM 10/28/94

BLDG. PERMIT SIGNED  
AND RETURNED 10/21/94  
Serial #50927  
250 gal. undgd  
pipe tank



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL 1250 gal CLEANOUTS ST + HSE ✓ OK

DISTRIBUTION BOX LEVEL ✓

DRAIN FIELD/TITLE DEPTH 5 FT. TRENCH WIDTH 3 FT. INLET DEPTH 3 FT.

EFFECTIVE GRAVEL DEPTH 2 FT. TOTAL LENGTH  $\frac{117 \times 3}{93/95/95}$  FT.

NUMBER OF TRENCHES 3 ONE SIDEWALL/BOTTOM AREA 849 SQ. FT.

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

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

REMARKS: Midsection ST. has seam below soil level with >50% fractured rock fragments. Hitting >50% rock  
Frags at Both Ends - revised spec for shallow trench system RPP 10/27/94 OK to cover (Soil all OK) RPP 10/28/94

DATE SYSTEM APPROVED 10/28/94 INSPECTOR RPP

# APPLICATION

PERCOLATION TESTING

A 43833  
P \_\_\_\_\_

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

DISTRICT Fourth  
DATE March 2, 1989

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 Paul Harrison, Jr. Mark Noble

ADDRESS 6430 Woodbine Road, Woodbine, MD 21797 PHONE 489-5049 744-8030

PROSPECTIVE BUYER Anchor Capital Group, Inc.

ADDRESS 133 Defense Highway, Annapolis, MD 21401 PHONE (301) 841-5510

PROPERTY LOCATION:

SUBDIVISION ~~Harrison Farm~~ Echo Estates LOT NO. 2

ROAD AND DESCRIPTION Located @ Intersection of Morgan Station Road & Woodbine Morgan Road (15500 Morgan Station Rd)

TAX MAP 3 PARCEL # 10

SIZE OF LOT 79.36 Ac. TYPE BLDG. Single Family  
(SINGLE FAMILY DWELLING OR COMMERCIAL)

BLDG. PERMIT SIGNED  
AND RETURNED 3/2/91  
Serial # 5396-4Bom

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. James Hanna  
(SIGNATURE OF APPLICANT)

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

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

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

REASONS FOR REJECTION OR HOLDING 5-24-89 Pending perc hole locations and subdivision plat approval. JEN

BLDG. PERMIT SIGNED  
AND RETURNED 11/2/93  
Serial # 57942  
SFD-4/Bom

Cancelled  
12/1/93

# THIS IS NOT A PERMIT

HD-216

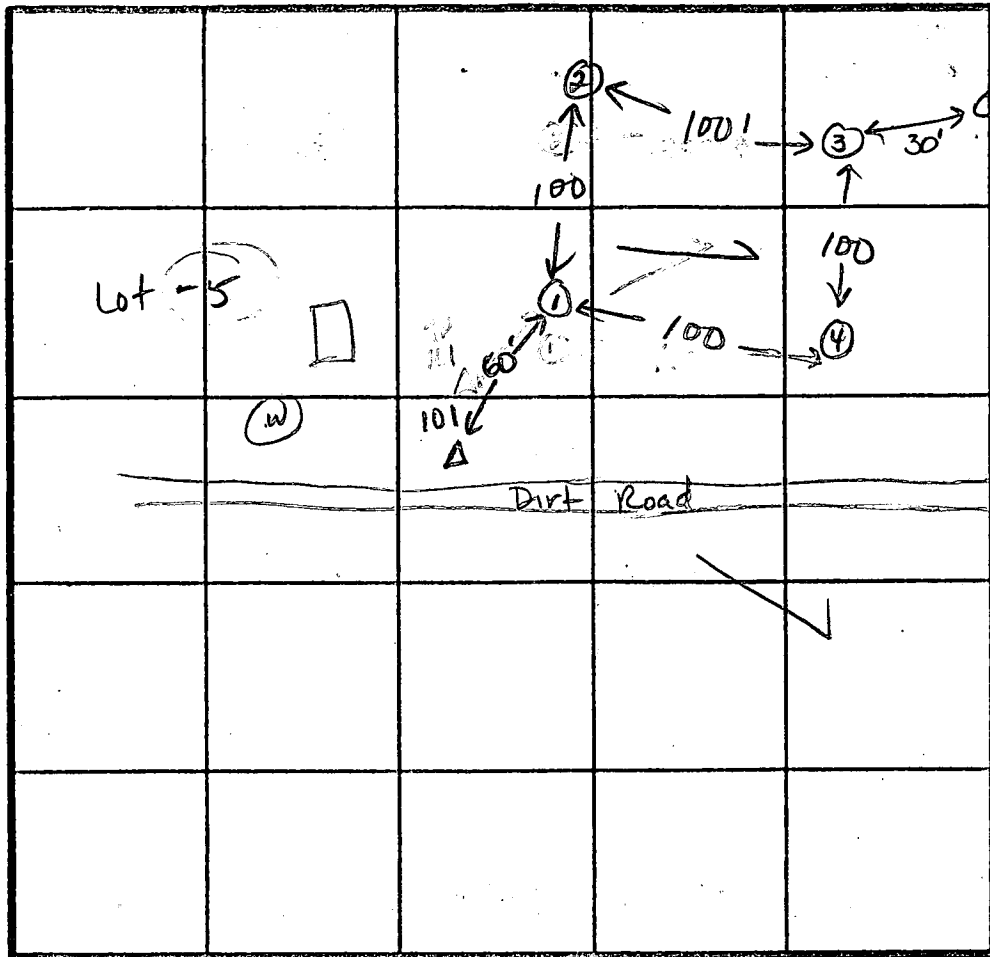
A 43833

④ ③  
SOIL PROFILE

0-2.5 Yellow-br sil m  
2.5-12.5 Red-yellow sa sil m  
trc of broken rock <10%  
12.5 Bottom

① ②

0-5.0 Rd-br sil cl m  
5-13.5 Tan mica sa sil m; some saprolite & rock frags <35%  
13.5 Bottom



Highest 1  
2  
3  
Low 4

$\bar{x} = 10 \text{ min}$   
Inlet = 4.5 ft  
Bottom = 8.5 ft  
210 sq ft / bedrm

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Lot -4 TO M.W. Road ↓

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1' DROP		TIME
			START	STOP	START	STOP	
5-24-89	4	4.5 S	3:11	3:17	3:17	3:27	10 min
		7.5 M	3:11	3:19	3:19	3:29	10 min
		12.5 D	Bottom (see profile)				ok
	3	5.0 S	3:16	3:23	3:23	3:41	18 min
		8.5 M	3:16	3:22	3:22	3:36	14 min
		13.5 D	Bottom (3.5 ft clay, 2.5% orx)				ok
	1	5.5 S	3:28	3:30	3:30	3:37	6 min
		8.5 M	3:28:44	3:29:14	3:29	3:31	2 min
		13.5 D	Bottom (slight structure)				ok
	2	4.5 S	3:35	3:43	3:43	3:54	11 min
		8.0 M	3:37	3:42	3:42	3:47	5 min
		12.5 D	Bottom (<15% rock, 4.0' clay)				ok

REMARKS All holes as shown on plat.

TYPE OF SOIL 0-4 Br-yellow sil cl m, 4-13 Tan-red sa sil m <35% orx

TESTED BY Jane E. Nadeau

ALSO PRESENT Dale Fogel

# LEGEND

CH MAY HAVE HYDRIC INCLUSIONS

SOIL EROSION

EROSION

EROSION - ENTIRE SUBDIVISION

OF LOTS TO BE RECORDED:

LOTS TO BE RECORDED:

ROADWAY TO BE RECORDED:

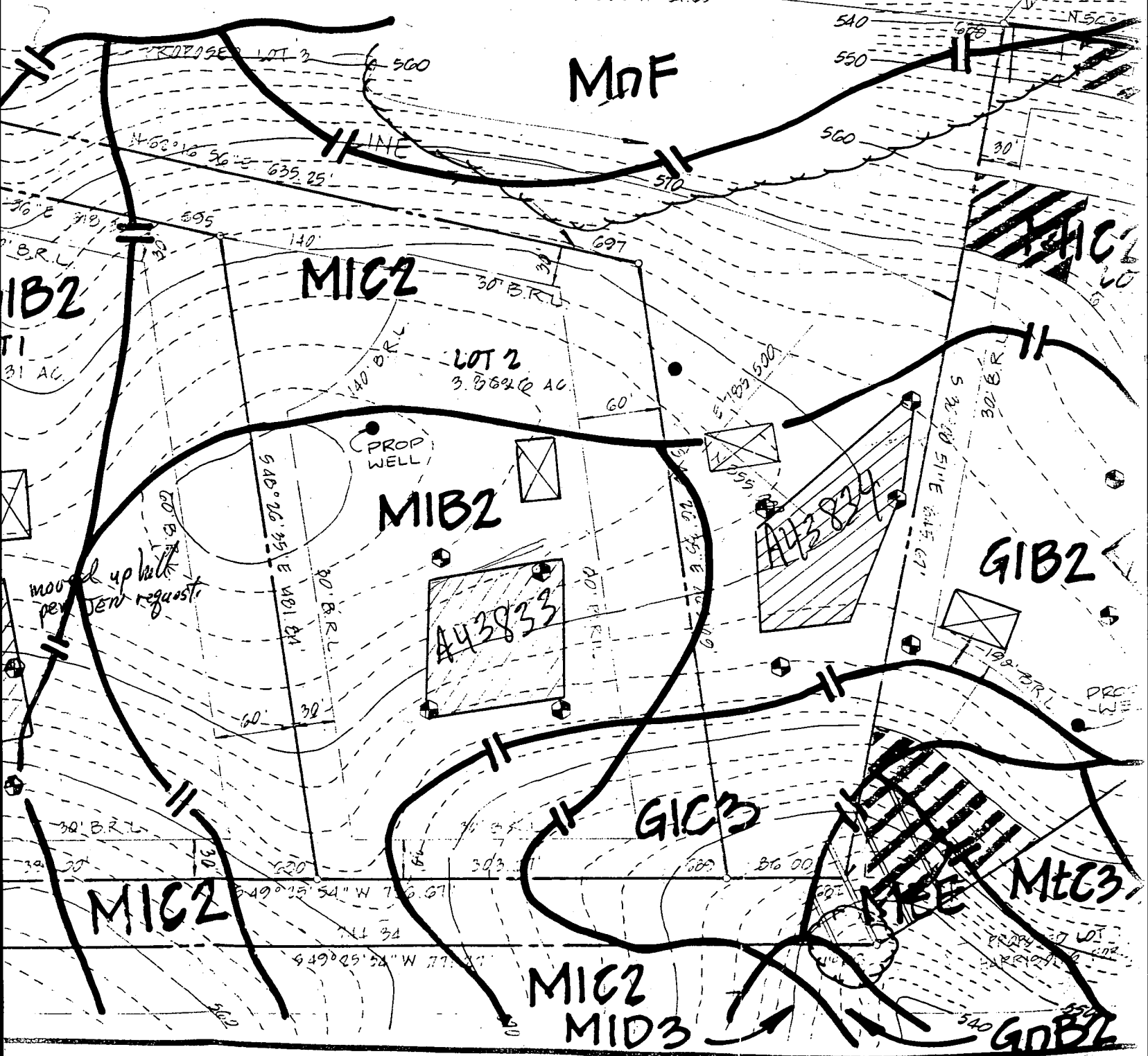
SUBDIVISION TO BE RECORDED:

LOT 3	
GROSS AREA - LOT 3	3.8696 AC
PIPESTEM AREA	0.4392 AC
NET AREA - LOT 3	3.4304 AC

LOT 4	
GROSS AREA - LOT 5	6.0532
PIPESTEM AREA	0.8445
NET AREA - LOT 5	5.2079

## LIMIT OF WETLANDS

LINE	BEARING & DIST.
A	N 15° 17' 06" E 37.22'
B	S 33° 38' 35" E 53.36'
C	S 53° 38' 30" E 39.78'
D	S 68° 31' 41" E 43.31'
E	S 52° 35' 24" E 47.47'
F	S 57° 50' 12" W 51.18'
G	S 38° 30' 50" W 59.98'
H	N 14° 50' 31" W 24.50'
I	N 22° 47' 26" W 61.17'
J	N 43° 12' 52" W 24.60'



660.5607	690	554,550.8039	705,409.8925
705.3760	685	554,339.6344	705,297.8970
994.1040	653	554,455.0914	705,103.6973
037.4679	651	554,510.2239	705,090.5122

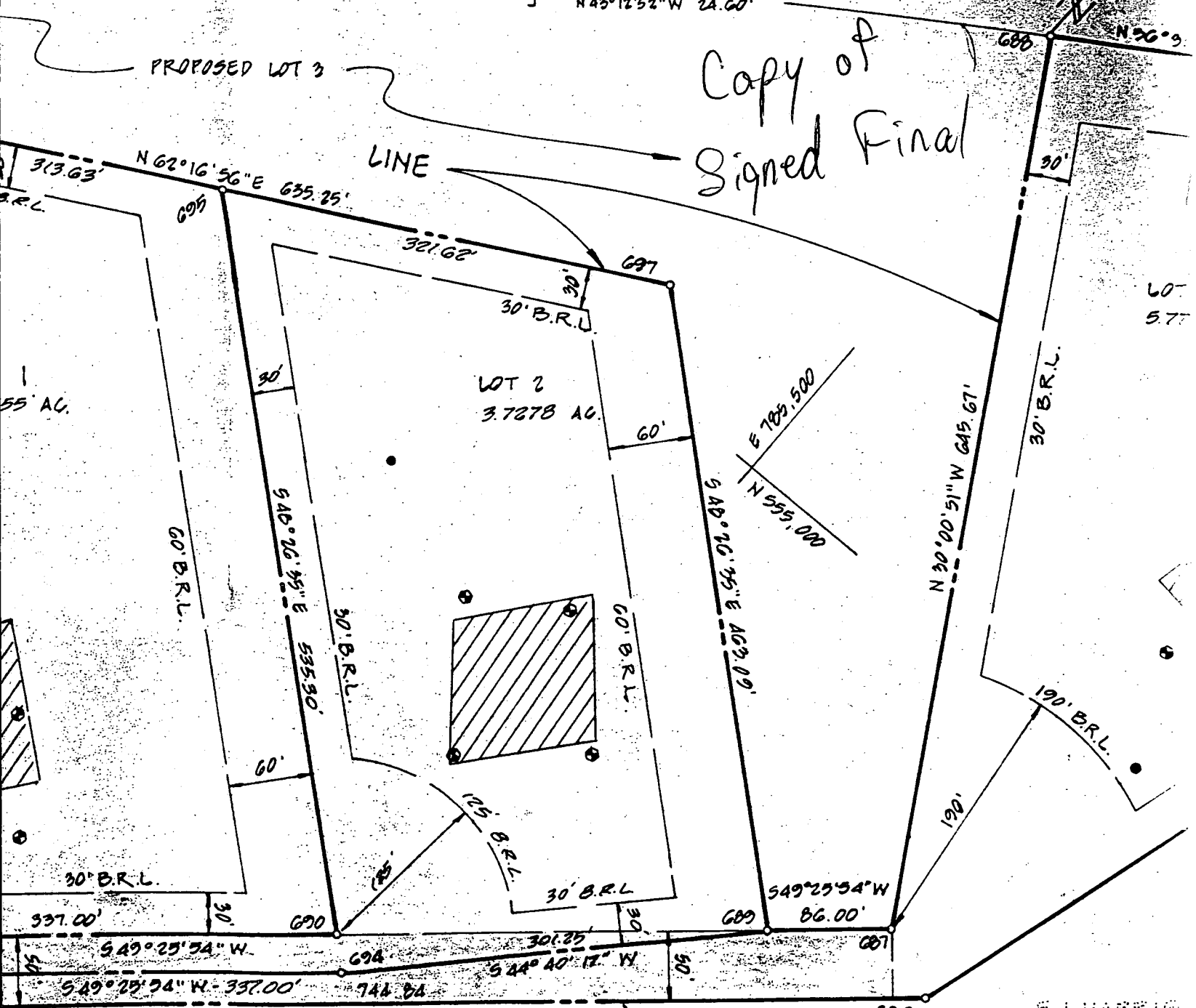
PIPESTEM AREA  
MINIMUM LOT AREA

LIMIT OF WETLANDS.

LINE	BEARING & DIST.
A	N 15° 17' 06" E 39.00'
B	S 33° 30' 30" E 53.36'
C	S 55° 28' 50" E 39.70'
D	S 68° 31' 41" E 43.31'
E	S 52° 25' 24" E 47.47'
F	S 97° 30' 12" W 51.18'
G	S 88° 39' 50" W 55.98'
H	N 14° 50' 31" W 34.50'
I	N 22° 47' 26" W 61.17'
J	N 43° 12' 52" W 24.60'

REGULATION - ENTIRE SUBDIVISION  
 2 OF LOTS TO BE RECORDED: 4  
 3 OF LOTS TO BE RECORDED: 1,122,835 SQ. FT. OR 25.7168 AC.  
 ROADWAY TO BE RECORDED: 31,937 SQ. FT. OR 0.7561 AC.  
 SUBDIVISION TO BE RECORDED: 1,159,772 SQ. FT. OR 26.5329 AC.

Copy of  
Signed Final



50' RIGHT-OF-WAYS FOR 549° 25' 54" W 771.27' INGRESS AND EGRESS (COMMON ACCESS AREA) FOR LOTS 2, 3, AND 4, AND LOT 1, HARRISON'S FOREST

PROPOSED LOT 1 606 HARRISON'S FOREST

S J HARRISON L. 2265 F. 1

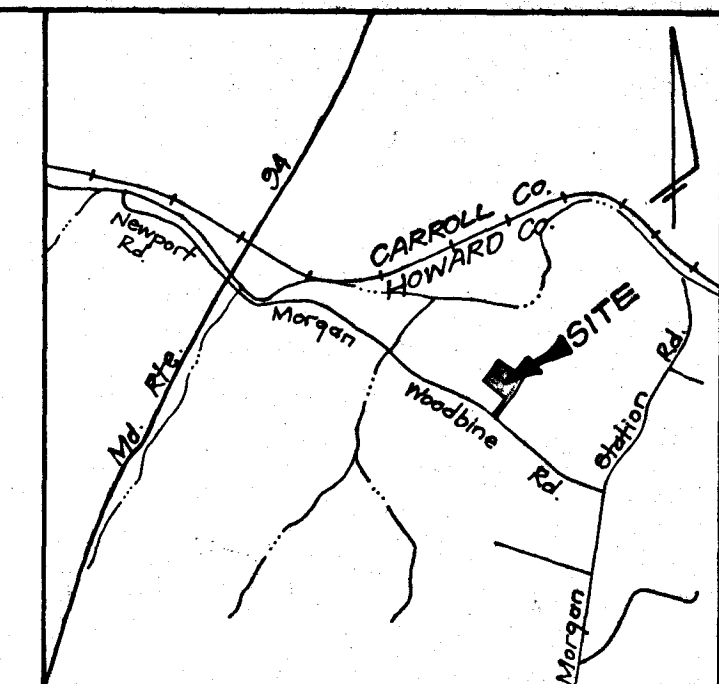
### OWNERS DEDICATION

I, PAUL FRANCIS HARRISON, JR., OWNER, PROPERTY SHOWN AND DESCRIBED HEREON, HEREBY ADOPT THIS PLAN OF SUBDIVISION, AND IN CONSIDERATION APPROVAL OF THIS FINAL PLAT BY THE DEPARTMENT OF PLANNING AND ZONING...

I HERE THAT I

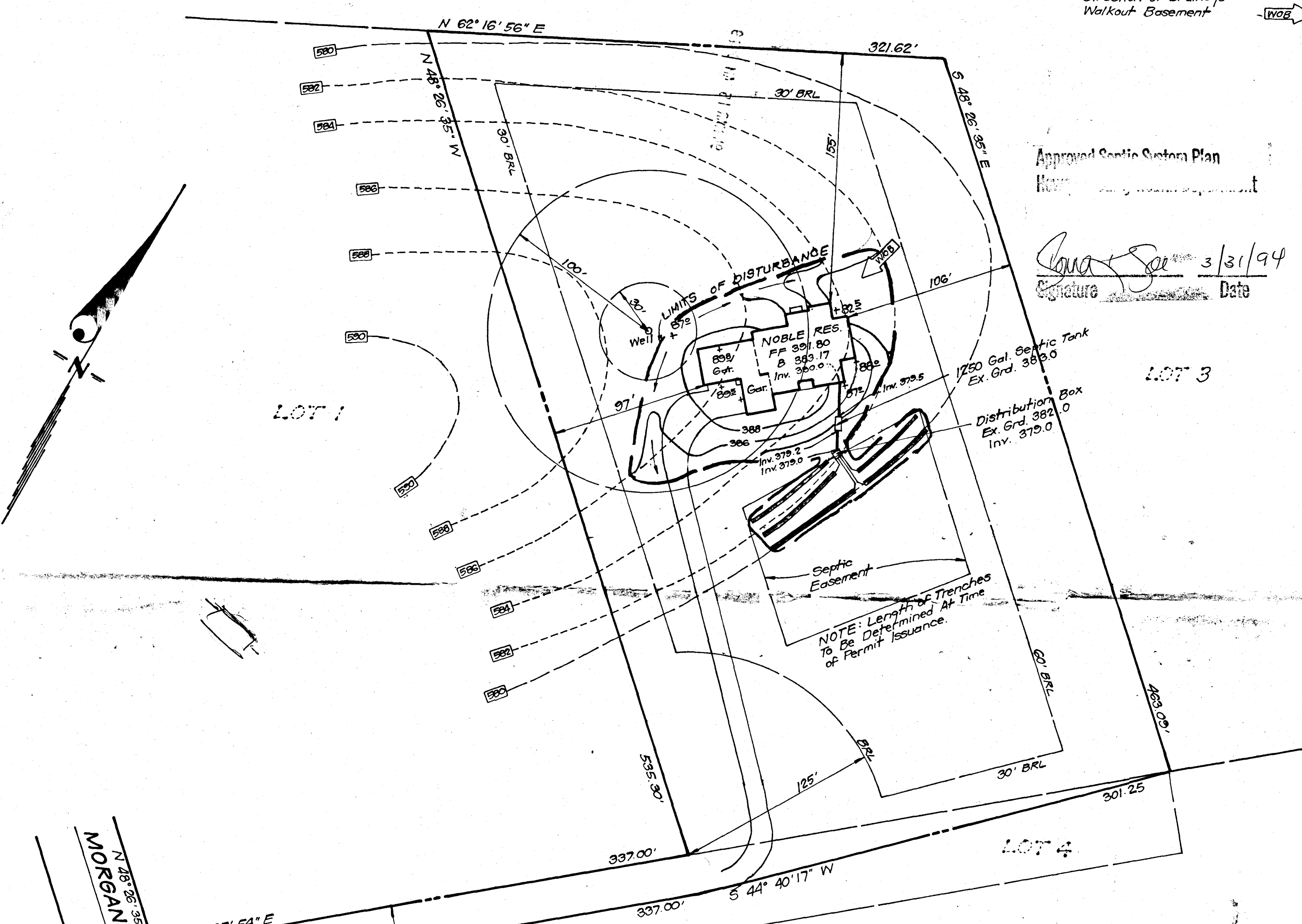
**LEGEND**

- Contour Interval 2 Ft
- Existing Contour
- Proposed Contour
- Spot Elevation +802
- Direction of Drainage
- Walkout Basement



**VICINITY MAP**

Scale: 1" = 2000'



CAN SHE COME IN TO PICK UP #2 site plan  
 Nancy E. Mills (we have 2 copies) only need one  
 410-442-2331  
 15500 Woodbine Morgan Rd  
 -21797  
 KC

MORGAN ROAD  
 N 48° 26' 35" E 25.24'  
 S 49° 25' 54" W 50' R/W  
 WOODBINE ROAD

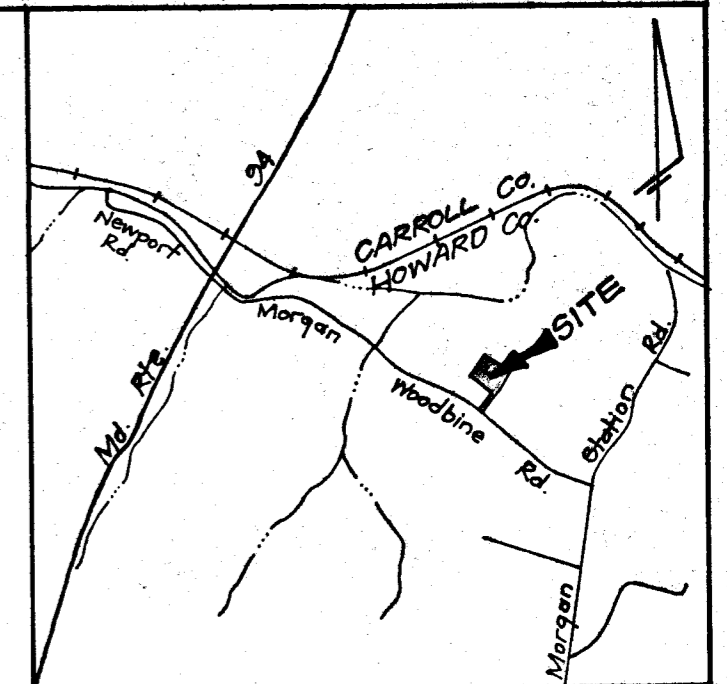
50' R/W For Ingress and Egress (Common Access Area) For Lots 2, 3 and 4 Echo Estates and Lot 1 Harrison's Forest.

Reference Plat No 10278 Topography provided by Client

<b>CLARK • FINEFROCK &amp; SACKETT, INC.</b> ENGINEERS • PLANNERS • SURVEYORS 7135 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 181-7500 BALTO • (301) 621-8100 WASH		
DESIGNED JME	<b>SITE DEVELOPMENT PLAN</b> LOT 2 <b>ECHO ESTATES</b> SECTION ONE FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 50'
DRAWN BAL		DRAWING 1 OF 1
CHECKED JME		JOB NO. 94-045
DATE 3-9-94		For: CAROL NOBLE 712 Meadowbrook Avenue Baltimore, Md. 21228

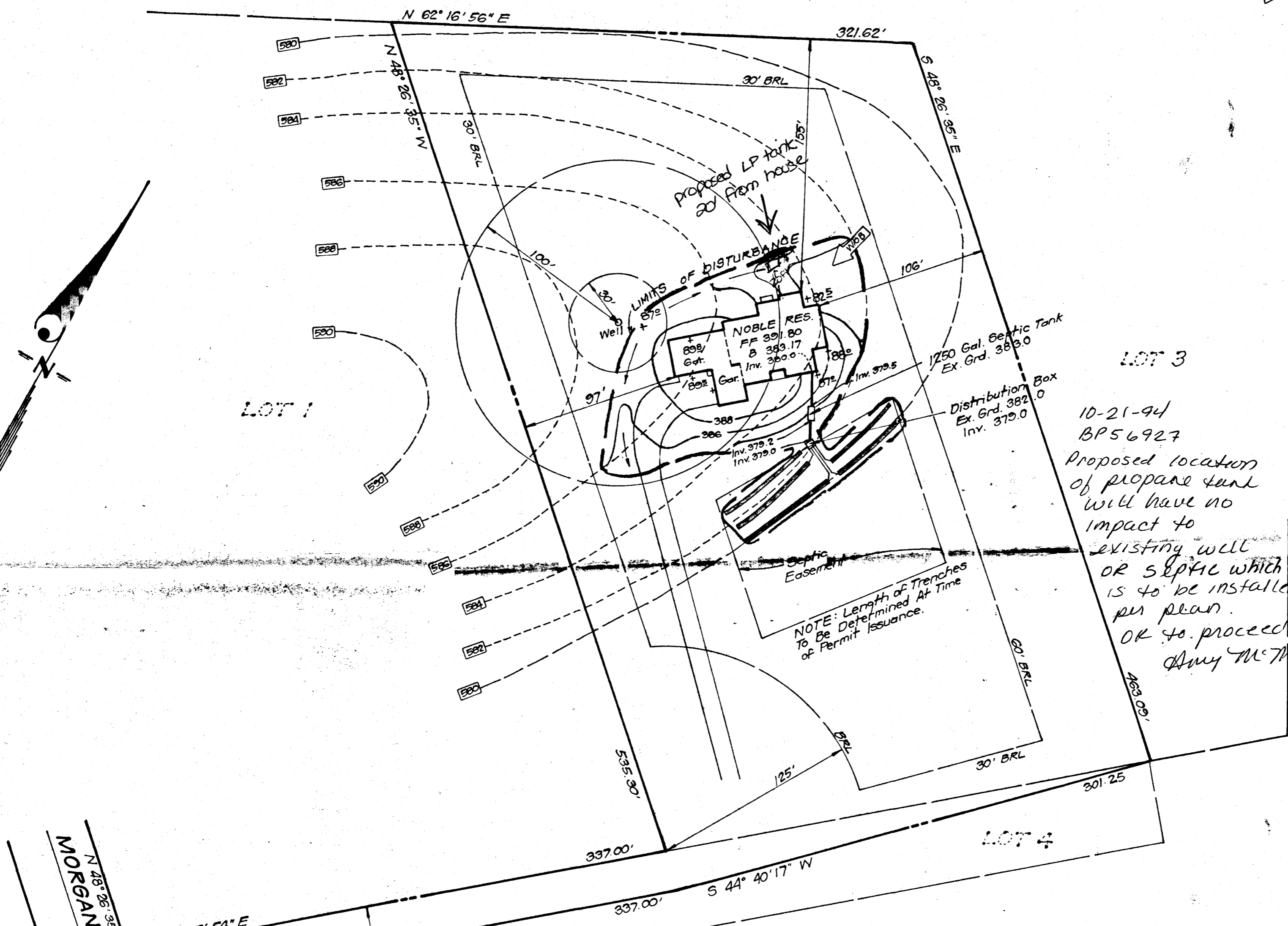
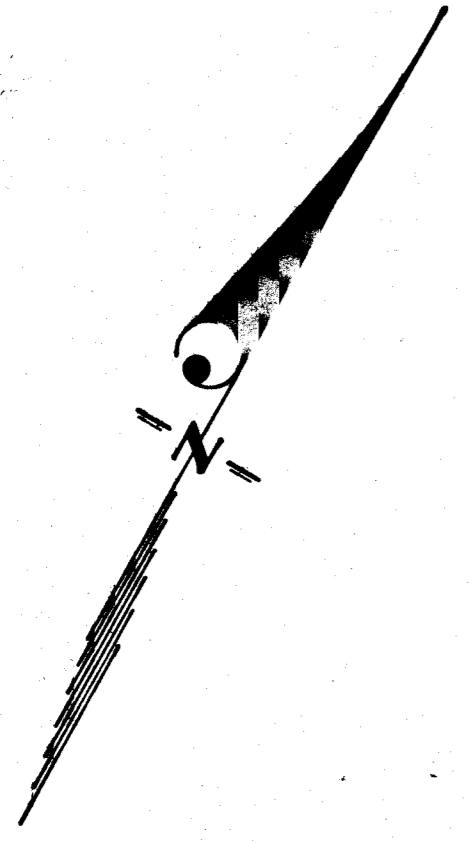
**LEGEND**

- Contour Interval 2 Ft.
- Existing Contour
- Proposed Contour
- Spot Elevation
- Direction of Drainage
- Walkout Basement



**VICINITY MAP**

Scale: 1" = 2000'



10-21-94  
 BP56927  
 Proposed location  
 of propane tank  
 will have no  
 impact to  
 existing well  
 OR septic which  
 is to be installed.  
 per plan.  
 OK to proceed.  
 Amy McMiller

NOTE: Length of Trenches  
 To Be Determined At Time  
 of Permit Issuance.

50' R/W For Ingress and Egress  
 (Common Access Area) For Lots 2,  
 3 and 4 Echo Estates and Lot 1  
 Harrison's Forest.

Reference Plat No 10278 Topography provided by Client

		<b>CLARK • FINEFROCK &amp; SACKETT, INC.</b> ENGINEERS • PLANNERS • SURVEYORS	
		7135 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 811-7500 BALTO • (301) 621-8100 - WASH.	
DESIGNED JME	<b>SITE DEVELOPMENT PLAN</b> LOT 2 <b>ECHO ESTATES</b> SECTION ONE FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 50'	
DRAWN BAL		DRAWING 1 OF 1	
CHECKED JME		JOB NO. 94-045	
DATE 3-9-94		FILE NO. 94-045-X	
For: CAROL NOBLE 712 Meadowbrook Avenue Baltimore, Md. 21228			

C1 7830

SEQUENCE NO. (DENV USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE

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

COUNTY NUMBER A43233

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

DATE Received grid

DATE WELL COMPLETED 04/06/93

Depth of Well 145

PERMIT NO. H0-92-0331

OWNER: Rlorens last name, Henry first name; STREET OR RFD: Morgan Woodbine Rd; TOWN: Woodbine; SUBDIVISION: ECHO ESTATES; SECTION: ; LOT: 2

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, FEET (FROM, TO), Check if water bearing. Entries: BROWN Shale 0 80, Blue Rock 80 145

GROUTING RECORD WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL CEMENT (CM), BENTONITE CLAY (BC), NO. OF BAGS 18, NO. OF POUNDS 108

CASING RECORD MAIN CASING TYPE (ST), Nominal diameter (6), Total depth of main casing (83)

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

SCREEN RECORD screen type or open hole (ST), insert appropriate code below

DEPTH (nearest ft.) grid with handwritten values: 8, 9, 11, 15, 145, 21, 23, 24, 26, 30, 32, 36, 38, 39, 41, 45, 47, 51

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION"

DRILLERS IDENT. NO. 238

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.), W Q (74, 75, 76)

TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST HOURS PUMPED (nearest hour) 3, PUMPING RATE (gal. per min. to nearest gal.) 12, METHOD USED TO MEASURE PUMPING RATE Bucket, WATER LEVEL (distance from land surface) BEFORE PUMPING 41, WHEN PUMPING 47, 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

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)

See Attached Location