

3/4/92  
10600

# APPLICATION

PERCOLATION TESTING

A 47745

P \_\_\_\_\_

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

DISTRICT 3rd

DATE 01/24/92  
~~12/15/91~~

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 Lois H. Lowe

ADDRESS 12325 Benson Branch Road, Ellicott City, MD PHONE (410) 531-6732

PROSPECTIVE BUYER \_\_\_\_\_

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

PROPERTY LOCATION:

SUBDIVISION Low Property (Woodmark) LOT NO 1

ROAD AND DESCRIPTION West side of Benson Branch Road 400' South of Pans Spring Court  
3701 Red Oak Lane

TAX MAP 22 PARCEL # 360

SIZE OF LOT 3 Acres + TYPE BLDG Single Family Detached  
(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.

Lois H. Lowe  
(SIGNATURE OF APPLICANT)

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

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

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

REASONS FOR REJECTION OR HOLDING 3/5/92 PERC OK HOLD FOR PLAT RIA

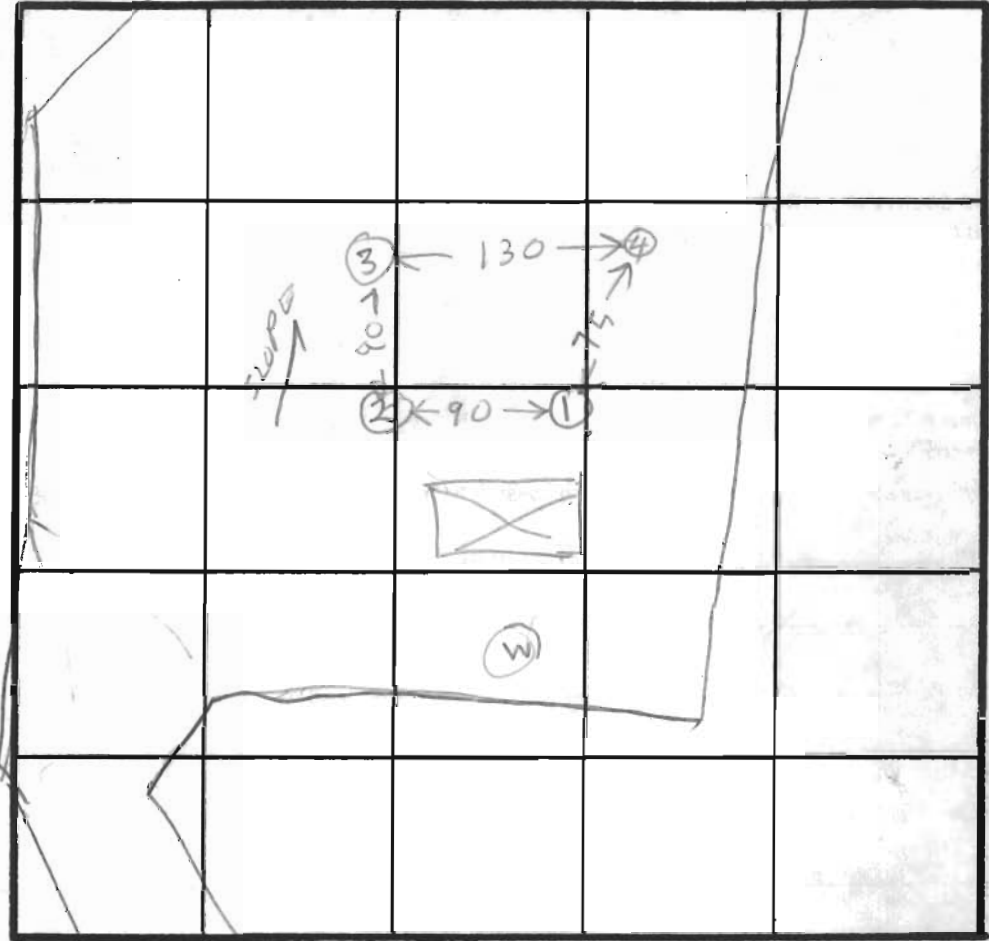
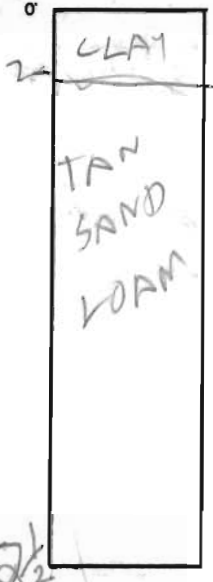
HD-216

## THIS IS NOT A PERMIT

LOWE PROPERTY  
LOT 1  
A47765

SEE PLAT

①  
SOIL PROFILE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.



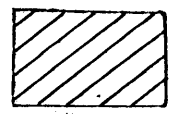
| DATE   | TEST NO. | DEPTH  | PRE-WET |      | TEST - 1" DROP |      | TIME |
|--------|----------|--------|---------|------|----------------|------|------|
|        |          |        | START   | STOP | START          | STOP |      |
| 3/4/92 | 1 D      | 7      | 156     | 157  | 157            | 201  | 4    |
|        | 1 S      | 4      | 156     | 202  | 202            | 210  | 8    |
|        | 2 D      | 7      | 200     | 201  | 201            | 204  | 3    |
|        | 2 S      | 3      | 203     | 209  | 209            | 213  | 4    |
|        | 3 D      | 8      | 206     | 208  | 208            | 214  | 6    |
|        | 3 S      | 3 1/2  | 212     | 214  | 224            | 242  | 18   |
| 3/5/91 | 4 D      | 8      | 218     | 222  | 222            | 227  | 5    |
|        | 4 S      | 3 1/2  | 218     | 222  | 222            | 232  | 10   |
|        | 1 V      | 12 1/2 | OK      |      |                |      |      |
|        | 2 V      | 12     | OK      |      |                |      |      |
|        | 3 V      | 12     | OK      |      |                |      |      |
|        | 4 V      | 11     | OK      |      |                |      |      |
|        |          |        |         |      |                |      |      |
|        |          |        |         |      |                |      |      |

REMARKS HOLES DUG PER SURVEYOR STAKES

TYPE OF SOIL

TESTED BY R. HODGES ALSO PRESENT PAT LINDORIE } PITCHER  
RWYING





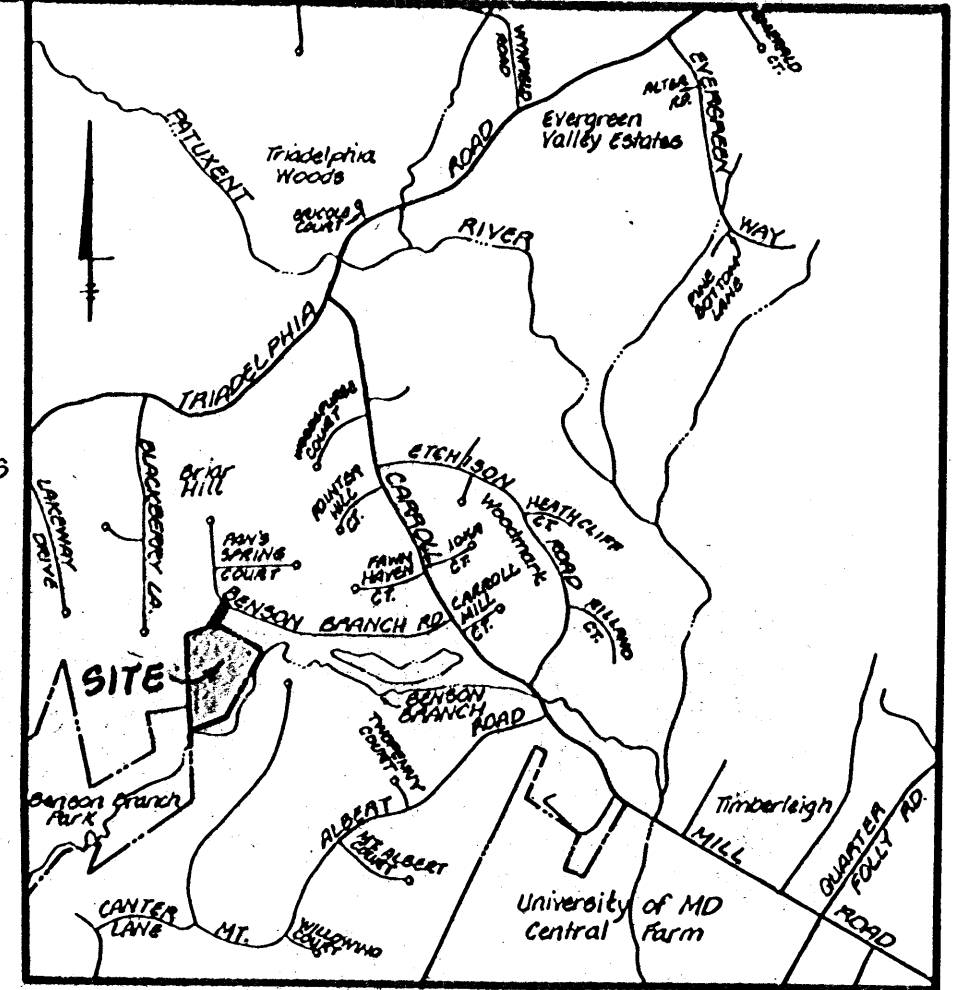
This area designates a private sewage easement of 10,000 square feet as required by the Maryland State Department of the Environment for individual sewage disposal. Improvements of any nature in this area are restricted until public sewage is available. These easements shall become null and void upon connection to a public sewage system. The County Health Officer shall have the authority to grant variances for encroachments into the private sewage easement. Recordation of a modified sewage easement shall not be necessary.

**LAND TABULATION:**

1. TOTAL NUMBER OF LOTS : 4
2. TOTAL AREA OF LOTS : 13.20 Ac.±
3. TOTAL AREA OF PRIVATE ROAD : 0.28 Ac.±
4. TOTAL AREA OF SUBDIVISION : 13.48 Ac.±

**LEGEND:**

- ⊕ PERCOLATION TEST (PASSED)
- ⊖ PERCOLATION TEST (FAILED)
- EXISTING PERCOLATION TEST
- PROPOSED WELL SITE
- ▨ EXISTING 10,000 SQ. FT. SEWAGE DISPOSAL AREA
- ▩ PROPOSED 10,000 SQ. FT. SEWAGE DISPOSAL AREA
- ▧ EXISTING NON-TIDAL WETLANDS
- ▨ 25% OR GREATER SLOPES
- ⊕ EXISTING WELL SITE
- PROPOSED PERCOLATION TEST

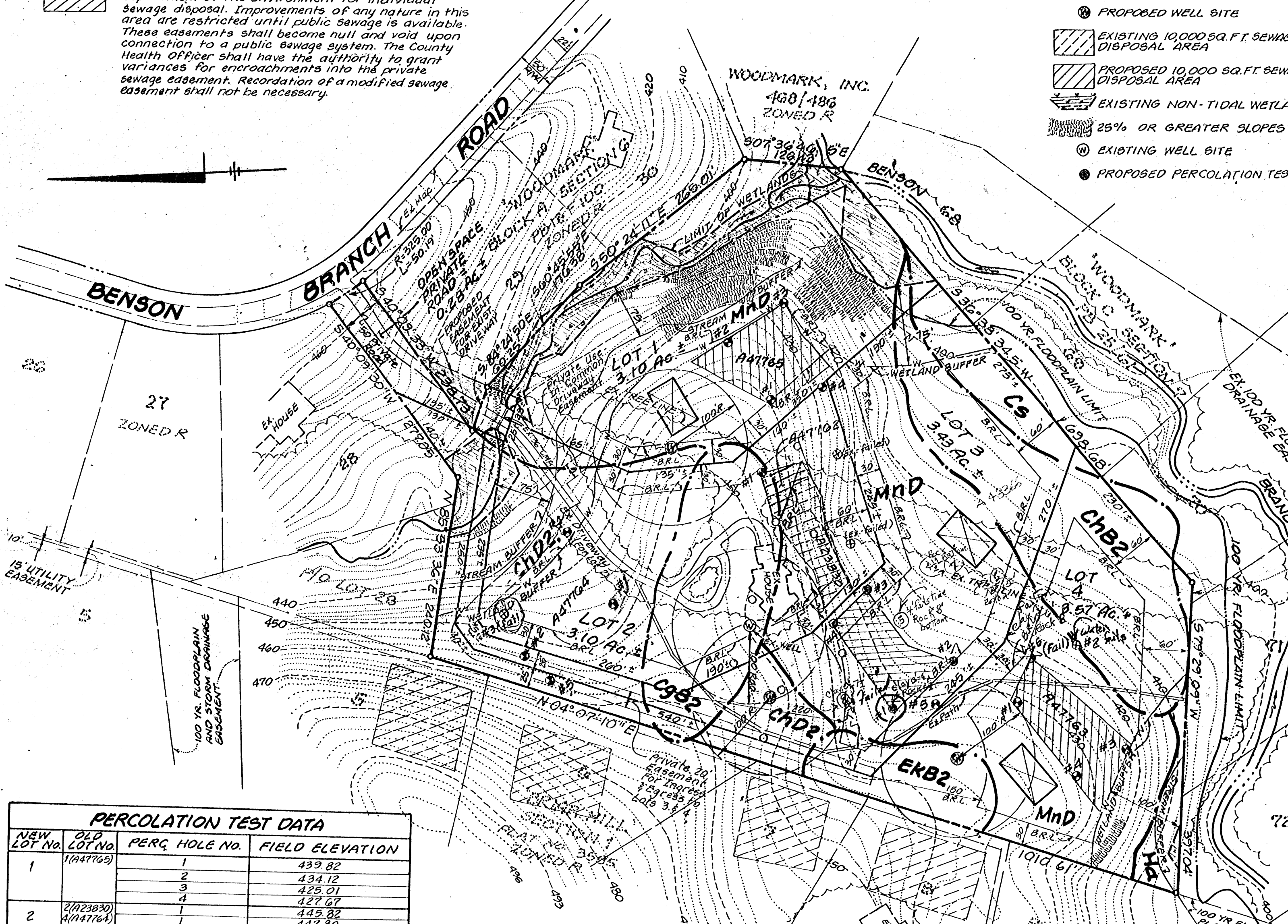


**VICINITY MAP**

SCALE: 1" = 2000'

**NOTES**

1. The lots shown comply with the minimum lot area and ownership width as required by the Maryland State Dept. of the Environment.
2. Existing Zoning: R (Rural) per 8-2-85 Comprehensive Zoning Plan.
3. Deed Reference: Liber 1700 Folio 374.
4. Total Area of Property: 13.48 Ac.±
5. The floodplain shown along Benson Branch was computed as part of Capital Project No. D-1028, Middle Patuxent River Drainage Study.
6. The topography shown is compiled from aerial photogrammetry, supplemented with field run data prepared by Land Design Engineering, Inc. August 1991.
7. The wetlands shown are field located from a field delineation prepared by Exploration Research, Inc. dated July 1991.
8. All percolation tests have been field located.



**OWNER/DEVELOPER**

LOIS H. LOWE  
12325 BENSON BRANCH RD  
ELLICOTT CITY, MD 21042  
(410) 531-6732

**REVISED PERCOLATION TEST PLAN**

**LOWE PROPERTY**  
LOTS 1 THRU 4  
TAX MAP 22 PARCEL 360  
3<sup>rd</sup> ELECTION DISTRICT, HOWARD COUNTY, MD  
PREVIOUS SUBMITTAL: WP91-144

LAND DESIGN ENGINEERING, INC.

SCALE: 1" = 100'

SHEET 1 OF 1

10620 Guilford Road • Suite B10  
Jesseup • Maryland 20794 (301) 804-8264 (301) 860-0034  
COMP: DRAWN: KBW DESIGN: BDB CHECKED: RLM

| PERCOLATION TEST DATA |                        |               |                 |
|-----------------------|------------------------|---------------|-----------------|
| NEW LOT No.           | OLD LOT No.            | PERC HOLE NO. | FIELD ELEVATION |
| 1                     | 1(A47765)              | 1             | 439.82          |
|                       |                        | 2             | 434.12          |
|                       |                        | 3             | 425.01          |
|                       |                        | 4             | 427.67          |
| 2                     | 2(A23830)<br>4(A47764) | 1             | 445.82          |
|                       |                        | 2             | 447.80          |
|                       |                        | 3             | 454.82          |
|                       |                        | 4             | 447.36 (Fail)   |
|                       |                        | 5             | 437.71          |
| 3                     | 3(A47763)              | 1             | 457.51          |
|                       |                        | 2             |                 |
|                       |                        | 3             |                 |
|                       |                        | 4             |                 |
|                       |                        | 5             |                 |
|                       |                        | 6             |                 |
| 4                     | 3(A47763)              | 1             | 431.64          |
|                       |                        | 2             | 415.84 (Fail)   |
|                       |                        | 3             | 422.64          |
|                       |                        | 4             | 431.02          |
|                       |                        | 5             | 430.79          |
|                       |                        | 6             |                 |

Note: All percolation tests denoted ⊕ have been field located.

**SOILS LEGEND**

| SYMBOL | NAME                       | SLOPE     | CHARACTERISTICS   |
|--------|----------------------------|-----------|-------------------|
| Cs     | Comus Silt Loam            |           |                   |
| ChD2   | Chester Silt Loam          | 15 to 25% | moderately eroded |
| ChB2   | Chester Silt Loam          | 3 to 8%   | moderately eroded |
| EKB2   | Elloak Silt Loam           | 3 to 8%   | moderately eroded |
| Ha     | Hatboro Silt Loam          |           |                   |
| MnD    | Manor very Stony Loam      | 3 to 25%  |                   |
| CgB2   | Chester gravelly Silt Loam | 3 to 8%   | moderately eroded |

(TAKEN FROM U.S.D.A. SOIL SURVEY MAP No. 14)

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE  
HOWARD COUNTY HEALTH DEPARTMENT

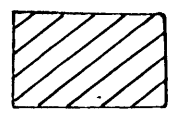
HOWARD COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

| No. | Date    | Description                                |
|-----|---------|--|
| 3   | 6-18-92 | New Lot Layout per Client Approval         |
| 2   | 3-25-92 | Per field located perc. tests              |
| 1   | 2-24-92 | Per 2-24-92 meeting @ Ho. Co. Health Dept. |

**REVISIONS**

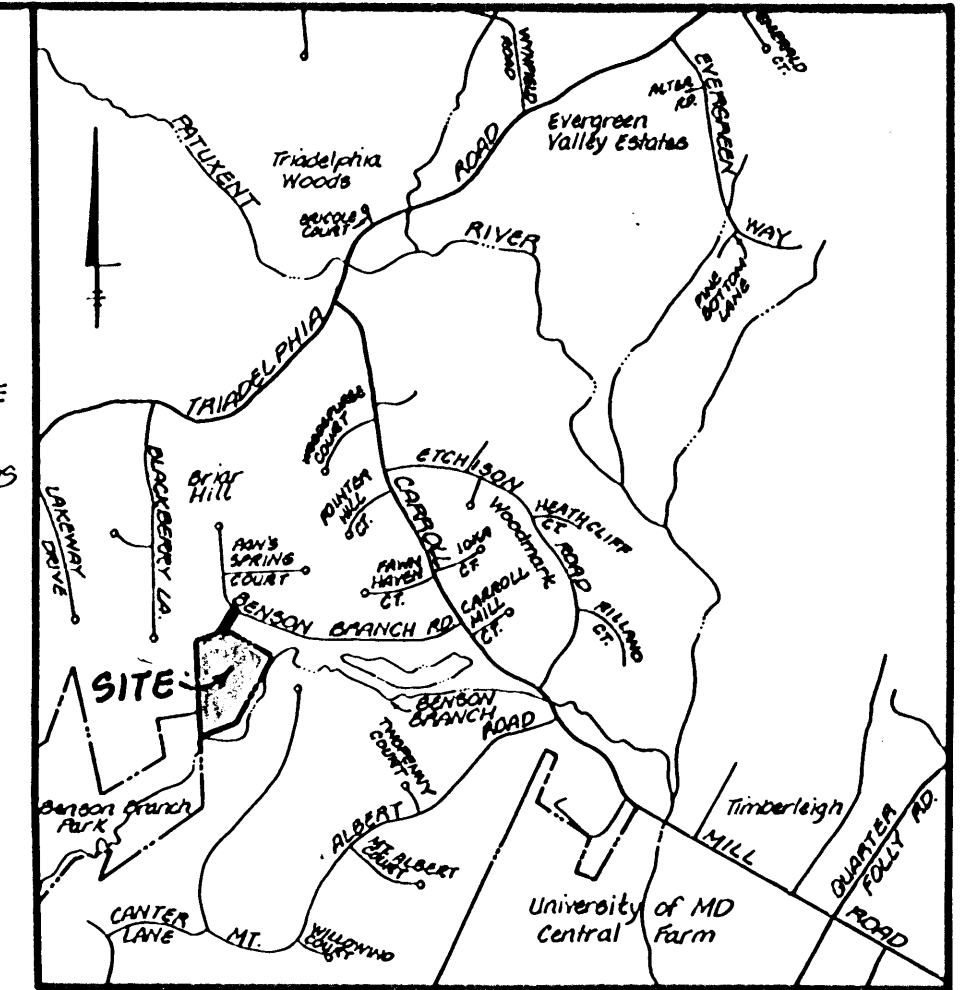


Bruce Burton



This area designates a private sewage easement of 10,000 square feet as required by the Maryland State Department of the Environment for individual sewage disposal. Improvements of any nature in this area are restricted until public sewage is available. These easements shall become null and void upon connection to a public sewage system. The County Health Officer shall have the authority to grant variances for encroachments into the private sewage easement. Recordation of a modified sewage easement shall not be necessary.

- LEGEND:**
- ⊕ PERCOLATION TEST (PASSED)
  - ⊖ PERCOLATION TEST (FAILED)
  - EXISTING PERCOLATION TEST
  - ⊙ PROPOSED WELL SITE
  - [Hatched Box] EXISTING 10,000 SQ. FT. SEWAGE DISPOSAL AREA
  - [Hatched Box] PROPOSED 10,000 SQ. FT. SEWAGE DISPOSAL AREA
  - [Wavy Line] EXISTING NON-TIDAL WETLANDS
  - [Stippled Area] 25% OR GREATER SLOPES
  - ⊙ EXISTING WELL SITE



**VICINITY MAP**  
SCALE: 1" = 200'

**NOTES**

1. The lots shown comply with the minimum lot area and ownership width as required by the Maryland State Dept. of the Environment.
2. Existing Zoning: R (Rural) per 8-2-85 Comprehensive Zoning Plan.
3. Deed Reference: Liber 1700 Folio 374.
4. Total Area of Property: 13.48 Ac.±
5. The Floodplain shown along Benson Branch was computed as part of Capital Project No. D-1028, Middle Patuxent River Drainage Study.
6. The topography shown is compiled from aerial photogrammetry, supplemented with field run data prepared by Land Design Engineering, Inc. August 1991.
7. The wetlands shown are field located from a field delineation prepared by Exploration Research, Inc. dated July 1991.

*md 014*  
*3rd date plan*  
**OWNER/DEVELOPER**  
LOIS H. LOWE  
12325 BENSON BRANCH RD  
ELLICOTT CITY, MD. 21042  
(410) 531-6732

- LAND TABULATION**
1. TOTAL NUMBER OF LOTS : 4
  2. TOTAL AREA OF LOTS : 13.14 Ac.±
  3. TOTAL AREA OF PRIVATE ROAD : 0.34 Ac.±
  4. TOTAL AREA OF SUBDIVISION : 13.48 Ac.±

**SOILS LEGEND**

| SYMBOL | NAME                       | SLOPE/CHARACTERISTICS       |
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| Ha     | Hatboro Silt Loam          |                             |
| MnD    | Manor very stony Loam      | 3 to 25%                    |
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(TAKEN FROM U.S.D.A. SOIL SURVEY MAP No. 14)

PERCOLATION TEST PLAT

**LOWE PROPERTY**  
LOTS 1 THRU 4  
TAX MAP 22 PARCEL 360  
3<sup>rd</sup> ELECTION DISTRICT, HOWARD COUNTY, MD  
PREVIOUS SUBMITTAL: WP 91-144

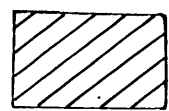
**LAND DESIGN ENGINEERING, INC.**

SCALE: 1" = 100'  
SHEET 1 OF 1

COMP:      DRAWN: KBW      DESIGN: BDB      CHECKED: RLM

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE  
HOWARD COUNTY HEALTH DEPARTMENT

HOWARD COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_



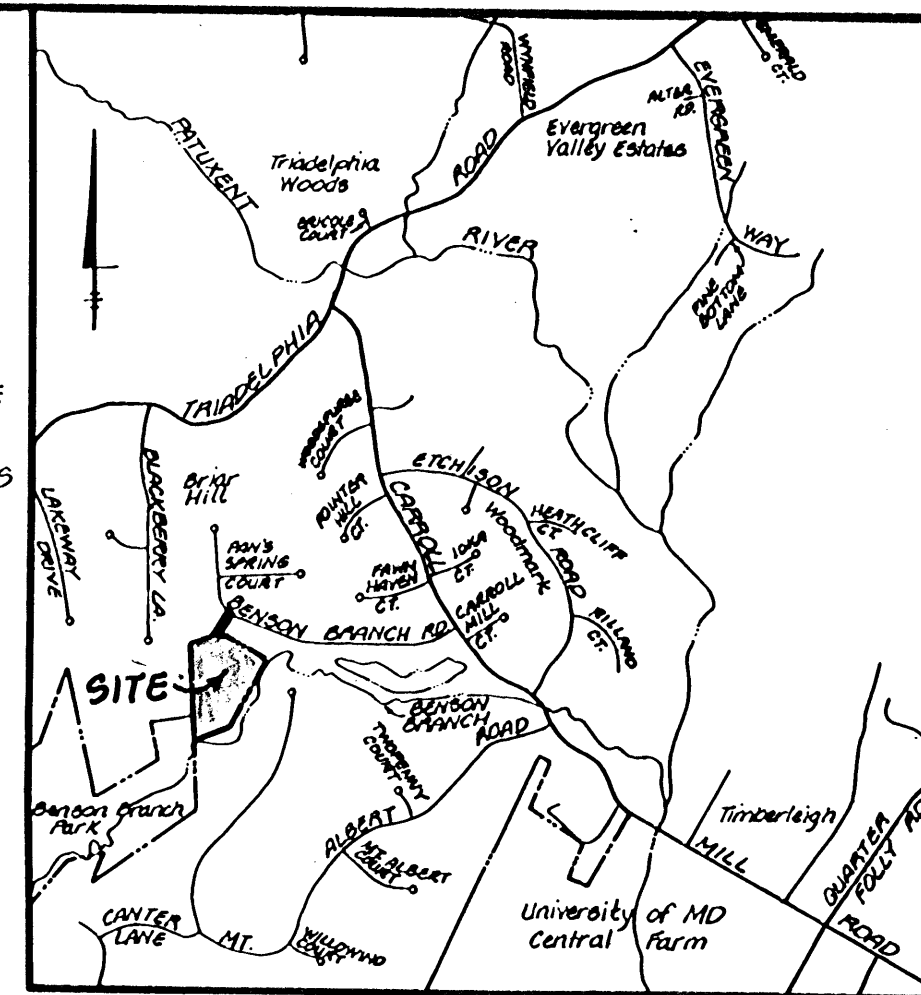
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- ▩ PROPOSED 10,000 SQ. FT. SEWAGE DISPOSAL AREA
- ≡ EXISTING NON-TIDAL WETLANDS
- ▨ 25% OR GREATER SLOPES
- ⊕ EXISTING WELL SITE



**VICINITY MAP**

SCALE: 1" = 2000'

**NOTES**

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2. Existing Zoning: R (Rural) per 8-2-85 Comprehensive Zoning Plan.
3. Deed Reference: Liber 1700 Folio 574.
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8. All percolation tests have been field located.

**OWNER/DEVELOPER**

LOIS H. LOWE  
12325 BENSON BRANCH RD  
ELLCOTT CITY, MD. 21042  
(410) 531-6732

| PERCOLATION TEST DATA |                |                 |
|-----------------------|----------------|-----------------|
| LOT No.               | PERC. HOLE No. | FIELD ELEVATION |
| 1                     | 1              | 439.82          |
|                       | 2              | 434.12          |
|                       | 3              | 425.01          |
|                       | 4              | 427.67          |
| 2                     | 1              | 445.82          |
|                       | 2              | 431.64          |
| 3                     | 1              | 415.84 (fail)   |
|                       | 2              | 422.64          |
|                       | 3              | 431.02          |
|                       | 4              | 430.79          |
|                       | 5              | 447.80          |
| 4                     | 1              | 454.82          |
|                       | 2              | 447.36 (fail)   |
|                       | 3              | 437.71          |
|                       | 4              | 437.71          |
|                       | 5              | 457.51          |

Note: All percolation test holes have been field located.

**SOILS LEGEND**

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|--------|----------------------------|-----------------------------|
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| MnD    | Manor Very Stony Loam      | 3 to 25%                    |
| CgB2   | Chester gravelly Silt Loam | 3 to 8% moderately eroded   |

(TAKEN FROM U.S.D.A. SOIL SURVEY MAP No. 14)

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE  
HOWARD COUNTY HEALTH DEPARTMENT

Sent for signature - signed 5/5/92  
HOWARD COUNTY HEALTH OFFICER DATE

**PERCOLATION TEST PLAT**

**LOWE PROPERTY**

LOTS 1 THRU 4  
TAX MAP 22 PARCEL 360  
3<sup>rd</sup> ELECTION DISTRICT, HOWARD COUNTY, MD  
PREVIOUS SUBMITTAL: WP 91-144

**LAND DESIGN ENGINEERING, INC.**

SCALE:  
1" = 100'

SHEET  
1 OF 1

10620 Guilford Road • Suite 210  
Jesseup • Maryland 20784

(301) 904-8284  
(301) 983-0034

COMP: DRAWN: K&W DESIGN: BDB CHECKED: RLM

| No. | Date    | Description                               |
|-----|---------|---|
| 2   | 3-25-92 | Per field located perc. tests             |
| 1   | 2-24-92 | Per 2-24-92 meeting @ Ho Co. Health Dept. |

**REVISIONS**



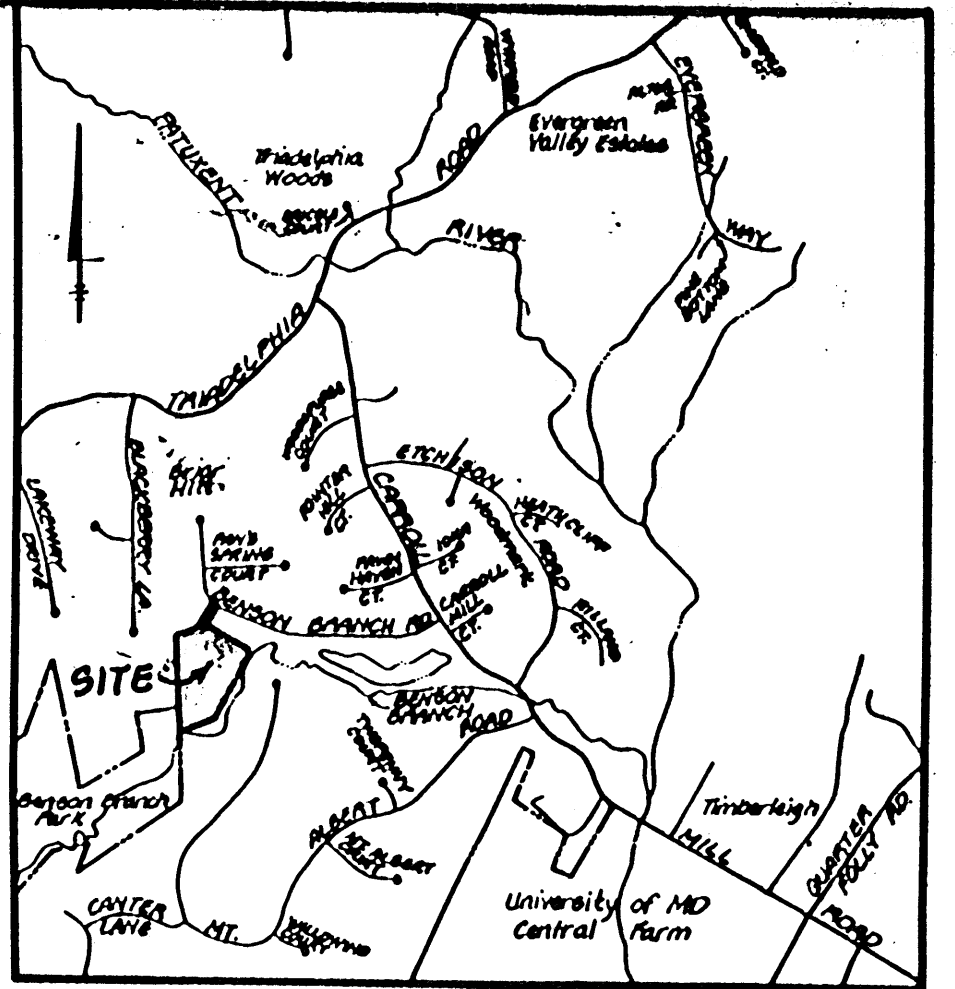
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- PROPOSED WELL SITE
- ▨ EXISTING 10,000 SQ. FT. SEWAGE DISPOSAL AREA
- ▨ PROPOSED 10,000 SQ. FT. SEWAGE DISPOSAL AREA
- ▨ EXISTING NON-TIDAL WETLANDS
- ▨ 25% OR GREATER SLOPES
- EXISTING WELL SITE



**VICINITY MAP**  
SCALE: 1" = 2000'

**NOTES**

1. The lots shown comply with the minimum lot area and ownership width as required by the Maryland State Dept. of the Environment.
2. Existing Zoning: R (Rural) per 8-2-85 Comprehensive Zoning Plan.
3. Deed Reference: Liber 1700 Folio 274.
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6. The topography shown is compiled from aerial photogrammetry, supplemented with field run data prepared by Land Design Engineering, Inc. August 1991.
7. The wetlands shown are field located from a field delineation prepared by Exploration Research, Inc. dated July 1991.
8. All percolation tests have been field located.
9. Lot #1 - the well must be drilled and approved prior to the final plat approval.

**OWNER/DEVELOPER**  
LOIS H. LOWE  
12325 BENSON BRANCH RD  
ELLICOTT CITY, MD. 21042  
(410) 531-6732

| LOT NO. | PERC. HOLE NO. | FIELD ELEVATION |
|---------|----------------|-----------------|
| 1       | 1              | 439.83          |
|         | 2              | 434.12          |
|         | 3              | 423.01          |
|         | 4              | 427.67          |
| 2       | 1              | 445.82          |
|         | 2              | 431.64          |
| 3       | 1              | 415.84 (fail)   |
|         | 2              | 422.64          |
|         | 3              | 431.02          |
|         | 4              | 430.79          |
|         | 5              | 447.80          |
| 4       | 1              | 454.82          |
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|         | 3              | 437.71          |
|         | 4              | 437.71          |
|         | 5              | 457.51          |

Note: All percolation test holes have been field located.

**SOILS LEGEND**

| SYMBOL | NAME                       | SLOPE/CHARACTERISTICS       |
|--------|----------------------------|-----------------------------|
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(TAKEN FROM U.S.D.A. SOIL SURVEY MAP No. 14)

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE  
HOWARD COUNTY HEALTH DEPARTMENT

*Joan M. Bond MS*  
HOWARD COUNTY HEALTH OFFICER  
5-5-92  
DATE



| NO. | DATE    | DESCRIPTION                               |
|-----|---------|---|
| 2   | 3-25-92 | Per field located perc. tests             |
| 1   | 2-24-92 | Per 2-24-92 meeting @ Ho Co. Health Dept. |

**PERCOLATION TEST PLAN**

**LOWE PROPERTY**  
LOTS 1 THRU 4

TAX MAP 22 PARCEL 360  
3<sup>RD</sup> ELECTION DISTRICT, HOWARD COUNTY, MD  
PREVIOUS SUBMITTAL: WP91-144

LAND DESIGN ENGINEERING, INC.

SCALE: 1" = 100'

SHEET 1 OF 1

10883 Buford Road • Suite B10  
Jesse, Maryland 20784  
301804-6884  
301880-0084  
COMP: QMHN: KBW DESIGN: BDB CHECKED: RLM

**DATA TABLE**

| TANGENT | DELTA     | LCB                 | CHORD |
|---------|-----------|---------------------|-------|
| 134.31' | 44°54'27" | N44°28'58"W 248.26' |       |

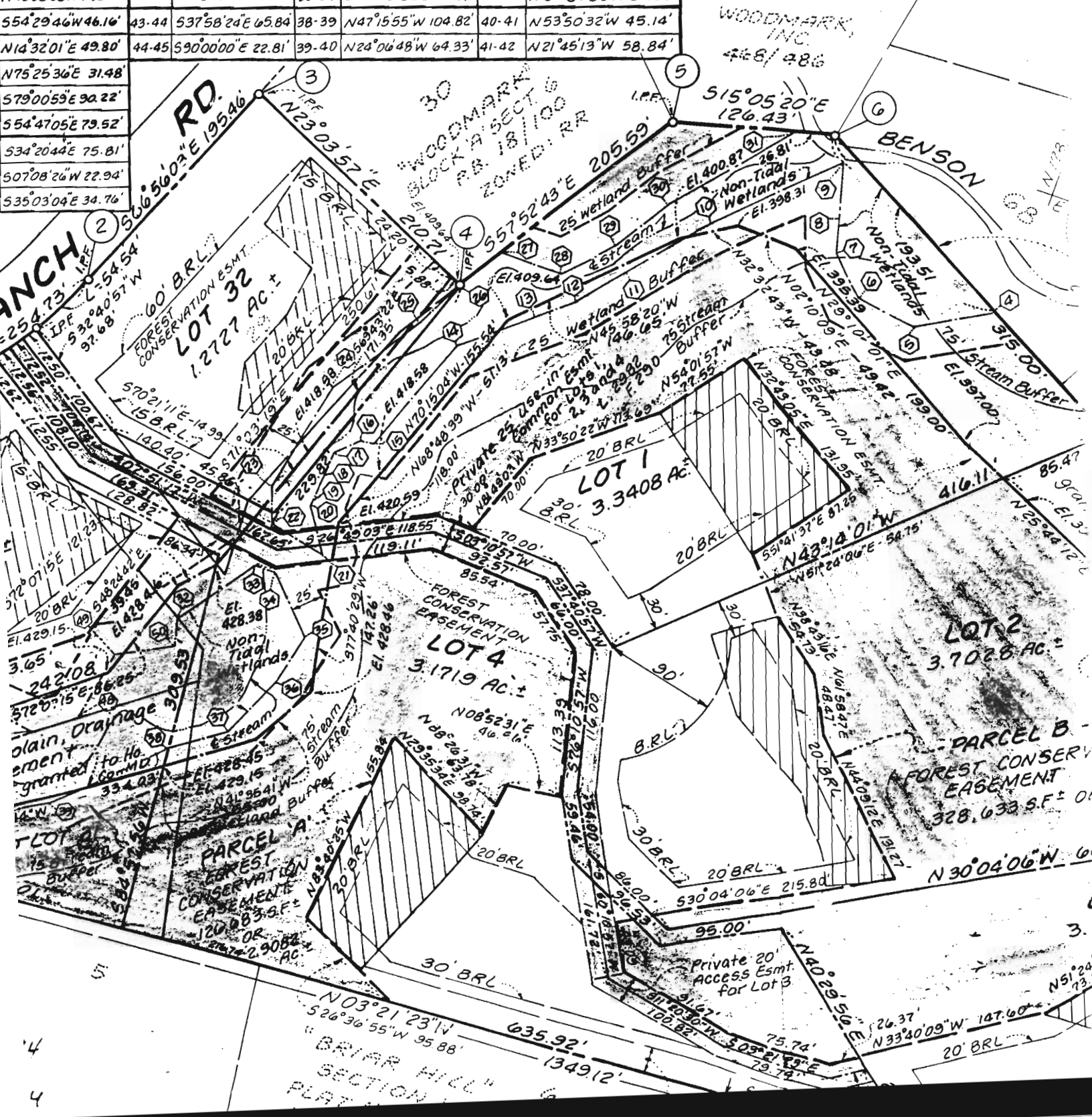
**LAND BOUNDARY**

| Bearing-Dist.      | No.   | Bearing-Dist.      | No.   | Bearing-Dist.       | No.   | Bearing-Dist.      |
|--------------------|-------|--------------------|-------|---------------------|-------|--------------------|
| N38°20'36"W 21.99' | 25-26 | S65°42'59"E 49.78' | 29-30 | S58°38'17"E 55.33'  | 34-35 | S49°08'52"W 56.55' |
| N86°02'54"W 21.30' | 26-27 | S52°26'12"E 37.42' | 30-31 | S49°21'10"E 114.51' | 35-36 | N75°16'43"W 37.62' |
| N89°36'15"W 20.89' | 27-28 | S00°48'02"W 47.90' | 32-33 | S55°04'01"E 69.56'  | 36-37 | N71°36'10"W 56.54' |
| N49°05'26"W 4.79'  | 28-29 | S49°37'01"E 48.49' | 33-34 | S09°28'58"E 17.31'  | 37-38 | N31°34'30"W 51.32' |
| S54°29'46"W 46.16' | 43-44 | S37°58'24"E 65.84' | 38-39 | N47°15'55"W 104.82' | 40-41 | N53°50'32"W 45.14' |
| N14°32'01"E 49.80' | 44-45 | S90°00'00"E 22.81' | 39-40 | N24°06'48"W 64.33'  | 41-42 | N21°45'13"W 58.84' |

**MINIMUM**

| Lot No. | Gross Area  | Pipeste |
|---------|-------------|---------|
| 1       | 3.3408 Ac.± | 0.07    |
| 2       | 3.7028 Ac.± | 0.157   |
| 3       | 3.2716 Ac.± | 0.25    |
| 4       | 3.1719 Ac.± | 0.068   |
| 31      | 2.3850 Ac.± | —       |
| 32      | 1.2727 Ac.± | —       |

NOTE: In the RR-DEO land in the 100 or greater steep



A 47765

SUBDIVISION: Lowc Property

LOT NUMBER: 1

DRY WELL OR DRY WELL AND TRENCH

\_\_\_\_\_ sq. ft./bedroom

|           | <u>Septic Tank</u> | <u>Minimum Total Square Feet</u> |
|-----------|--------------------|----------------------------------|
| 3 bedroom | 1000 gallon        | _____                            |
| 4 bedroom | 1250 gallon        | _____                            |
| 5 bedroom | 1500 gallon        | _____                            |

Inlet \_\_\_\_\_ feet below original grade.

Bottom maximum depth \_\_\_\_\_ feet below original grade.

Effective area begins at \_\_\_\_\_ feet below original grade.

NOTE: If trench is used to make up absorbent area, run the trench on level ground and leave a 5-foot earth buffer between dry well and trench. No trench is to exceed 100 feet in length. Trench inlet to be same as dry well, with \_\_\_\_\_ feet of stone below distribution pipe.

TRENCHES

180 sq. ft./bedroom

Trench to be 3.0 wide.

60 linear ft per bdrmm

Inlet 3.0 feet below original grade.

Bottom maximum depth 5.0 feet below original grade.

Effective area begins at 3.0 feet below original grade.

2.0 feet of stone below distribution pipe.

- NOTE:
- (1) No trench to exceed 100 feet in length.
  - (2) If more than one trench used, a distribution box is required.
  - (3) Trenches to be installed on level ground.
  - (4) Call for inspection of trench before gravel is installed.
  - (5) Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank and drywell.
  - (6) If a garbage disposal is used, increase septic tank capacity by 50% and increase absorbent sidewall area by 22%.

LOCATION: Beginning from the intersection of the 78.00 and 416.11 lot lines, place <sup>the</sup> distribution box 130 feet up the 416.11 lot line and 25 feet off that same lot line  
Run trenches on contour toward Benson Branch Road. AEM 7/23/96