

12/11/00 LAYOUT & WPI 12pm

# PERMIT

P 514694-D

A 58947-F

**SEWAGE DISPOSAL SYSTEM**  
HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
410-313-2640

ISSUE DATE 12/7/2000

APPROVAL DATE 12/13/00

12/13/00  
Final  
AM

**INDEXED**

RPS# 364910

Union Paving Company, Inc. IS PERMITTED TO INSTALL X ALTER       

ADDRESS 5977 Sandy Ridge Road, Elkridge, MD 21075 PHONE 410-379-6463

SUBDIVISION Windridge Farms LOT NUMBER 6 ADDRESS 3860 Shady Lane

PROPERTY OWNER Hamilton Reed PROPERTY OWNER'S ADDRESS 8000 Main Street

SEPTIC TANK CAPACITY 1250 GALLONS Ellicott City, MD 21043

PUMP CHAMBER CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

SQUARE FEET PER BEDROOM 70-210

LINEAR FEET OF TRENCH REQUIRED 280

TRENCHES: Trenches to be 3.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 5.0 feet below original grade. 2.0 feet of stone below distribution box.

LOCATION: To be determined based on field layout inspection- note that site plan topography shows septic area sloping in two directions with right-rear corner being the highest part of the area.

NOTE: Two tanks in series, without pump, approved on assumption that ample area exists to provide for initial trench system and one complete replacement by gravity. 10/3/00 O.K. (R.P.)

PLANS APPROVED Craig Williams DATE 9/15/00

PERMIT VOID AFTER 2 YEARS

NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS

NOTE: TOP OF SEPTIC TANKS ARE TO BE NO DEEPER THAN 3.0 FEET BELOW FINISH GRADE

NOTE: WATERTIGHT SEPTIC TANKS REQUIRED

NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS, 90° ELBOWS ARE NOT ACCEPTABLE

NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX, DRAINFIELDS) TO BE 100 FEET FROM ANY WATER WELL UNLESS OTHERWISE SPECIFICALLY AUTHORIZED

NOTE: NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH UNLESS SPECIFICALLY AUTHORIZED

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS

NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

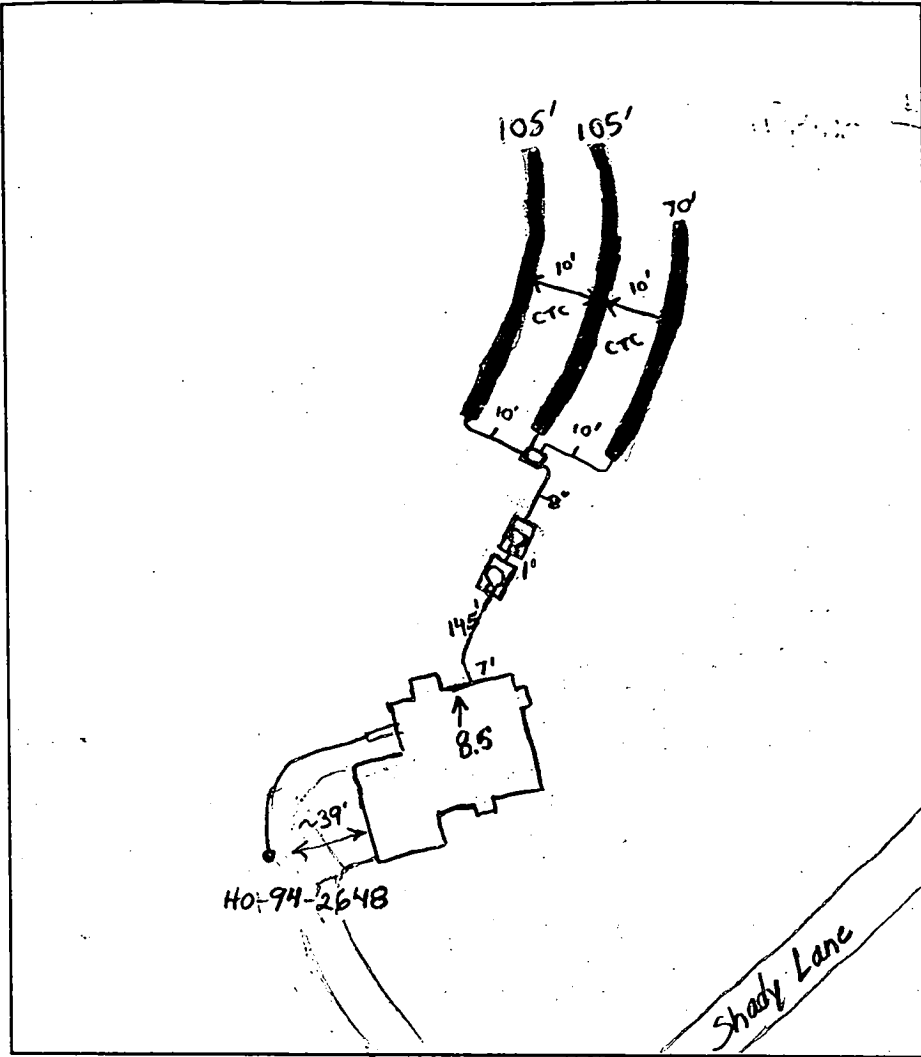
NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

NOTE: IF PUMPED SEPTIC SYSTEM REQUIRED, (1) SEPTIC PUMP DETAIL TO BE PROVIDED BY INSTALLER PRIOR TO ISSUANCE OF SEPTIC PERMIT (2) PUMP PERFORMANCE TEST IS NECESSARY PRIOR TO HEALTH DEPARTMENT APPROVAL OF SEPTIC PERMIT

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM  
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT  
CALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

514694-D

NOT TO SCALE



**TRENCH DATA**

TRENCH WIDTH 3'  
 TRENCH INLET DEPTH 3'  
 TRENCH BOTTOM DEPTH 5'  
 DEPTH OF STONE 2'  
 NUMBER OF TRENCHES 3  
 TOTAL TRENCH LENGTH 280'  
 ABSORBENT AREA 840ft<sup>2</sup>  
 DISTRIBUTION BOX LEVEL   
 BAFFLE IN DISTRIBUTION BOX

**SEPTIC TANK DATA**

SEPTIC TANK 1250 TS GALLONS  
 BAFFLES IN 1250 TS  
 MANHOLE RISER Yes  
 6 INCH INSPECTION PORT Yes

**PUMP CHAMBER DATA**

PUMP CHAMBER 1250 TS  
 GALLONS 1250 TS  
 MANHOLE RISER Yes  
 ALARM NA (initial system)  
 PUMP PERFORMANCE TEST NA "

PRE-CONSTRUCTION INSPECTION: To install one 70' and 2-105' trenches. Top 70' trench will be six inches off contour to conserve area. To use middle of easement.

INSPECTION COMMENTS: 7' trench spacing. 12/11/00 (BB) 12/13/00 - OK TO COVER ALL WORK (SRK)

INSPECTOR Steven R. Krieg DATE SYSTEM APPROVED 12/13/00

**HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH**

**WATER AND SEWERAGE PROGRAM  
TEL: (410)313-2640 FAX: (410)313-2648**

**Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping**

**NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.**

Company Name: CLARKE P+H INC Telephone #: 410-489-4029  
Address: 3510 Ridge Rd  
Westminster, MD 21157

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer  
License # and name of individual responsible for the field installation:  
Name (Print): Ken Clarke License# 3808

\*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: Hamilton Reed Telephone #: 410-480-9146  
Subdivision: Windridge Farm Lot #: 6 Well Tag #: HO-94-2648  
Site Address: 3860 Shady Lane

|  |                            |  |
|--|----------------------------|--|
| <b>Submersible Pump Data</b>   | <b>Pitless Adapter</b>     | <b>Well Cap and Electric Conduit</b>                             |
| Make: <u>Takumi</u>  | Make: _____                | Two piece watertight cap: <input checked="" type="checkbox"/>    |
| Model #: _____   | Model#: <u>P-7-800</u>     | Screened, vented well cap: <input checked="" type="checkbox"/>   |
| Pump Capacity <u>7</u> GPM   | Depth: <u>42</u> (36" min) | Cap secured to casing: <input checked="" type="checkbox"/>       |
| Well Yield: <u>10</u> GPM  | NSF approved: _____        | Conduit min 18" B.G.: <input checked="" type="checkbox"/>        |
| Depth of well encountered at time of pump installation: _____ (feet) |                            | Conduit secured to well cap: <input checked="" type="checkbox"/> |

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4  
Torque arrestors or Cable guards are required - Must circle one  
Safety rope, if used, attached to inside of well casing with eye bolt \_\_\_\_\_

|  |  |
|--|--|
| <b>Piping to house</b>                                 | <b>House Connection</b>  |
| Type: <u>Plaster</u>                                   | PVC sleeved to undisturbed soil at wall penetration: <input checked="" type="checkbox"/> |
| PSI: <input checked="" type="checkbox"/> (160 psi min) | Approximate length of sleeve: <u>        </u>  |
| Depth of supply line: <u>36" min</u>                   | Sleeve caulked and sealed properly: <input checked="" type="checkbox"/>                  |

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation: Ken Clarke date: NOV-1-00

**For Health Department Use Only - Not to be completed by installer**

Date Insp. Requested: 12/11/00 Date Insp. Approved: 12/11/00

Inspection Data:

|   |                                     |
|---|-------------------------------------|
| Pitless adapter and water supply line at least 36" below grade          | <input checked="" type="checkbox"/> |
| Two piece cap installed and attached to casing securely                 | <input checked="" type="checkbox"/> |
| Elec. conduit extends at least 18" below grade/attached to cap properly | <input checked="" type="checkbox"/> |
| Safety rope installed inside of well casing                             | <input checked="" type="checkbox"/> |
| Correct well tag attached properly and casing 8" above finished grade   | <input checked="" type="checkbox"/> |
| Water supply line sleeved adequately at house connection                | <input checked="" type="checkbox"/> |
| Adequate grout observed below pitless adapter                           | <input checked="" type="checkbox"/> |

**BB** SRK

**ENGINEER'S CERTIFICATE**

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Steve Forney*  
 SIGNATURE OF ENGINEER DATE 6/21/00

**DEVELOPER'S CERTIFICATE**

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

*Steve Forney*  
 SIGNATURE OF DEVELOPER DATE 6/21/00

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

*Paul Seimann 7/3/00*  
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

*John R. Hunter 7/3/00*  
 HOWARD SOIL CONSERVATION DISTRICT DATE

**SEQUENCE OF CONSTRUCTION**

1. Obtain grading permit.
2. Install sediment control as shown on plan and any responsible personnel.
3. Perform necessary grading and stabilize the site (90 days).
4. Construct dwelling on site (90 days).
5. After the site is stabilized and permission is granted from the sediment control inspector, remove sediment control and stabilize any remaining disturbed areas.

**TEMPORARY SEEDING NOTES**

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

**SEEDING PREPARATION**

Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

**SOIL AMENDMENTS**

Apply 500 lbs. per acre 30-30-10 fertilizer (4 lbs./1,000 Sq. Ft.)

**SEEDING**

For the periods March 1 through April 30, and August 15 through October 15, seed with 1-1/2 bushel per acre (3.2 lbs./1,000 Sq. Ft.) for the period May 1 thru August 14. Seed with 3 lbs./acre of vernalis (107 lbs./1,000 Sq. Ft.) for the period November 15 thru February 28. Protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

**MULCHING**

Apply 1-1/2 to 2 tons per acre (70 to 90 lbs./1,000 Sq. Ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 250 gallons per acre (5 gal./1,000 Sq. Ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 340 gallons per acre (6.8 gal./1,000 Sq. Ft.) for anchoring. Refer to the 1996 Maryland Standards and Specifications for Soil Erosion and sediment control for rate and methods not covered.

**PERMANENT SEEDING NOTES**

All disturbed areas shall be stabilized as follows:

**SEEDING PREPARATION**

Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

**SOIL AMENDMENTS**

Apply two tons per acre Dolomitic Lime Stone (52 lbs./1,000 Sq. Ft.) and 600 lbs. per acre 0-20-20 fertilizer (4 lbs./1,000 Sq. Ft.) before seeding mulch or disking. Into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 uniform fertilizer (8 lbs./1,000 Sq. Ft.) and 500 lbs. per acre (15 lbs./1,000 Sq. Ft.) of 10-20-20 fertilizer.

**SEEDING**

For the periods March 1 through April 30, and August 1 through October 15, seed with 100 lbs. per acre (2.3 lbs./1,000 Sq. Ft.) of Kentucky 31 Tall Fescue, for the period May 1 through July 31, seed with 60 lbs./acre (1.4 lbs./1,000 Sq. Ft.) Kentucky 31 Tall Fescue and 2 lbs. per acre (0.05 lbs./1,000 Sq. Ft.) of vernalis (107 lbs./1,000 Sq. Ft.) for the period October 15 through February 28. Project site by Option C - two tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod. For the period March 1 through April 30, and August 1 through October 15, seed with 100 lbs. per acre (2.3 lbs./1,000 Sq. Ft.) of Kentucky 31 Tall Fescue and 2 lbs. per acre (0.05 lbs./1,000 Sq. Ft.) of vernalis (107 lbs./1,000 Sq. Ft.) for anchoring. Mulch with two tons/acre well anchored straw. All slopes should be hydroseeded.

**MULCHING**

Apply 1-1/2 to 2 tons per acre (70 to 90 lbs./1,000 Sq. Ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using 200 gallons per acre (5 gal./1,000 Sq. Ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher use 340 gallons per acre (6.8 gal./1,000 Sq. Ft.) for anchoring.

**MAINTENANCE**

Inspect all seeded areas and make needed repairs, replacements and reseedings.

For public ponds substitute Charming Crowns at 25 lbs./acre and Kentucky 31 Tall Fescue at the seeding requirement.

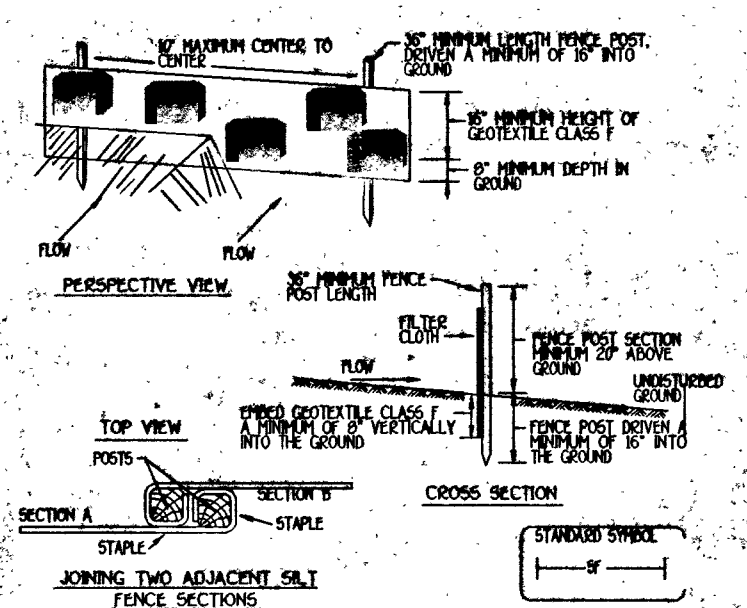
Optimum seeding date for this mixture is March 1 to April 30.

**ALTERNATIVE FOR PERMANENT SEEDING** - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge may be applied as specified below:

Composted sludge material for use as a soil conditioner for sites having disturbed areas under 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:

- a) Composted sludge shall be applied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under Comar 25.04.06.
- b) Composted sludge shall contain at least 1 percent Nitrogen, 15 percent Phosphorus, and 0.2 percent Potassium and have a pH of 7.0 to 9.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
- c) Composted sludge shall be applied at a rate of 1 ton/1,000 Sq. Ft.

Composted sludge shall be amended with a Potassium Fertilizer applied at the rate of 4 lbs./1,000 Sq. Ft. and 1/3 the normal lime application rate.



**CONSTRUCTION SPECIFICATIONS**

1. Fence posts shall be a minimum of 3/4" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum cut, or 3/4" diameter, minimum round) and shall be of sound quality hardwood. Steel posts will be standard 1" or 1 1/2" section weighting not less than 100 pound per linear foot.
2. Geotextile shall be fastened securely to each fence post with wire ties or staples at 1' top and mid-section and shall meet the following requirements for Geotextile Class F:
 

|                      |                          |               |
|----------------------|--------------------------|---------------|
| Tensile Strength     | 50 lbs/in (min)          | Test: MHT 909 |
| Tensile Modulus      | 20 lbs/in (min)          | Test: MHT 509 |
| Flow Rate            | 0.3 gal/177 minute (max) | Test: MHT 322 |
| Filtering Efficiency | 75% (min)                | Test: MHT 322 |
3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
4. Silt fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

**SILT FENCE**  
 NOT TO SCALE

**TOPSOIL SPECIFICATIONS** - Soil to be used as topsoil must meet the following:

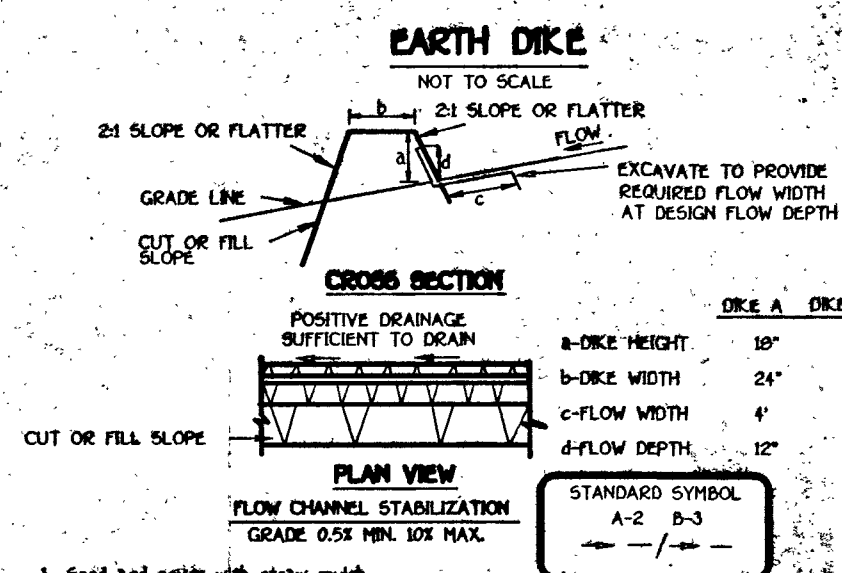
Topsoil shall be a loam, silty loam, or loam, with less than 1% clay, sandy loam. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting texture subsoil and shall contain less than 5% by volume of clinders, stones, slag, coarse fragments, gravel, sticks, roots trash, or other materials larger than 1-1/2" in diameter.

Topsoil must be free of plants or plant parts such as Bermuda Grass, Quackgrass, Johnson grass, Nutgrass, Poison Ivy, Thistle, or others as specified.

Where the topsoil is either highly acidic or composed of heavy clay, ground limestone shall be applied at the rate of 4-6 tons/acre (200-400 pounds/1,000 Sq. Ft.) prior to the placement of topsoil. Lime shall be distributed uniformly over the disturbed area and worked into the soil in conjunction with tillage operations as described in the following procedures:

For sites having disturbed areas under 5 acres:

Place topsoil (if required) and apply soil amendments as specified in EDO vegetative establishment - Section 1 - Vegetative Stabilization Methods and Materials.



**CONSTRUCTION SPECIFICATIONS**

1. Seed and cover with straw mulch.
2. Seed and cover with Erosion Control Matting or lime with sod.
3. 4' - 7' stone or recycled concrete equivalent pressed into the soil 7" minimum.

1. All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.
2. Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
3. Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erosive velocity.
4. All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.
5. The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
6. Fill shall be compacted by earth moving equipment.
7. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.
8. Inspection and maintenance must be provided periodically and after each rain event.

| DATE   | DESCRIPTION           | REVISION |
|--------|-----------------------|----------|
| 8/7/00 | ADD TWO SEPTIC TANKS. |          |

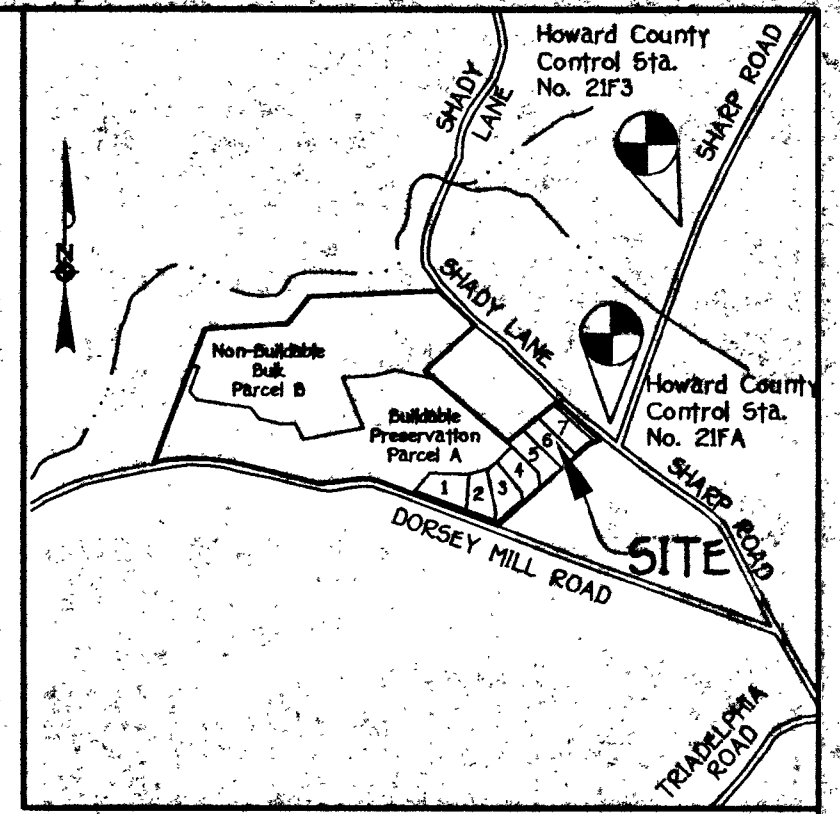
Approved Septic System Plan  
 Howard County Health Department  
 B00125496 - 4BL  
*C. W. Welch* 8/8/00  
 Consulting Data

Total linear feet of trench required 280 feet

Width of trench(es) 3 feet

Depth of trench(es) 5 feet

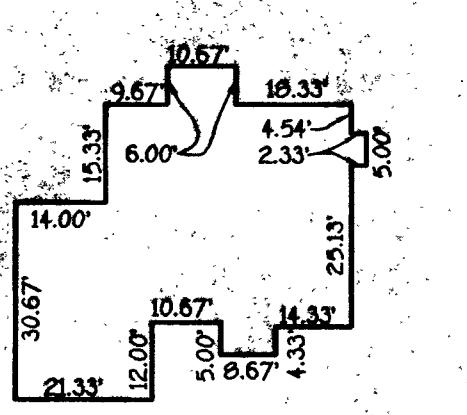
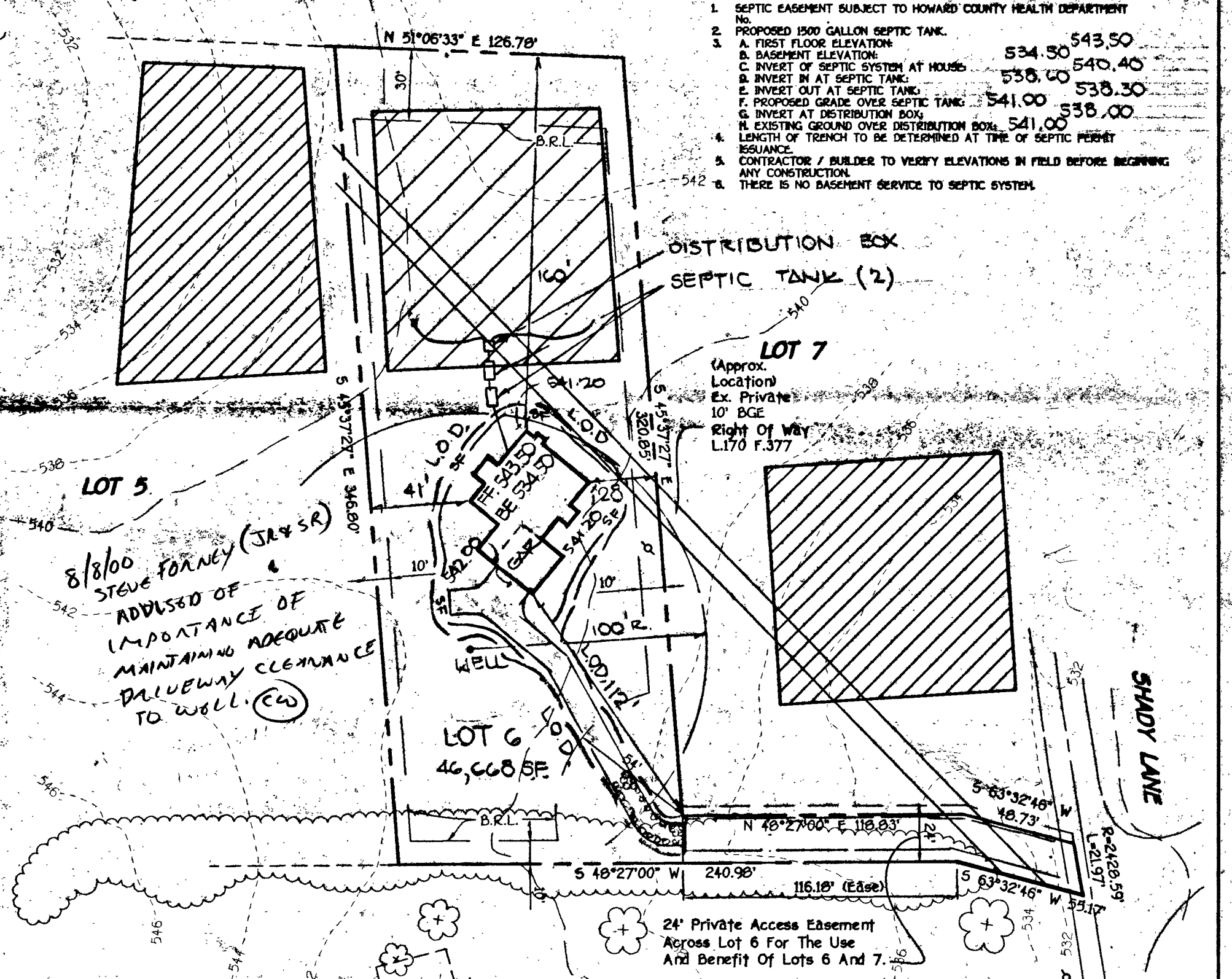
Depth of stone 2.5 FT



**VICINITY MAP**  
 SCALE: 1"=1200'

**GENERAL NOTES**

1. SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT
2. PROPOSED 1500 GALLON SEPTIC TANK.
3. A. FIRST FLOOR ELEVATION: 534.50, 543.50
- B. BASEMENT ELEVATION: 538.00, 540.40
- C. INVERT OF SEPTIC SYSTEM AT HOUSE: 538.00, 538.00
- D. INVERT IN AT SEPTIC TANK: 541.00, 538.00
- E. INVERT OUT AT SEPTIC TANK: 541.00, 538.00
- F. PROPOSED GRADE OVER SEPTIC TANK: 541.00, 538.00
- G. INVERT AT DISTRIBUTION BOX: 541.00, 538.00
- H. EXISTING GROUND OVER DISTRIBUTION BOX: 541.00, 538.00
4. LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
5. CONTRACTOR / BUILDER TO VERIFY ELEVATIONS IN FIELD BEFORE BEGINNING ANY CONSTRUCTION.
6. THERE IS NO BASEMENT SERVICE TO SEPTIC SYSTEM.



**DETAIL**  
 SCALE: 1" = 30'



**GP.00-201**  
 PLAN TO ACCOMPANY APPLICATION FOR BUILDING PERMIT  
**WINDRIDGE FARMS**  
 SECTION 2, AREA 1  
 LOT 6

TAX MAP 21  
 FOURTH ELECTION DISTRICT  
 SCALE: 1" = 50'

PARCEL 31  
 HOWARD COUNTY, MARYLAND  
 DATE: JUNE, 2000

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461 - 2255

61380

C-6261

# APPLICATION

PERCOLATION TESTING

A 58947BR

P \_\_\_\_\_

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

DISTRICT 04

DATE \_\_\_\_\_

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 Ray & Jane Cabbage

ADDRESS 14504 Dorsey Mill Rd Glenelg MD PHONE 410-489-7017

AGENT OR PROSPECTIVE BUYER Susquehanna LAND Holding Co.

ADDRESS 1814 Hyman Ln Crofton MD PHONE 410-451-3916

PROPERTY LOCATION:

SUBDIVISION Cabbage Sub LOT NO. 28 (23)

ROAD AND DESCRIPTION \_\_\_\_\_

TAX MAP 21 PARCEL # 31

SIZE OF LOT 1± Ac. 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. \_\_\_\_\_  
(SIGNATURE OF APPLICANT)

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

58947BB

COUNTY #

SOIL PROFILE

0' or/br clay 1m

20' tan/pink silty/sand 1m 10% shale frags

4

3.0' or/br clay 1m

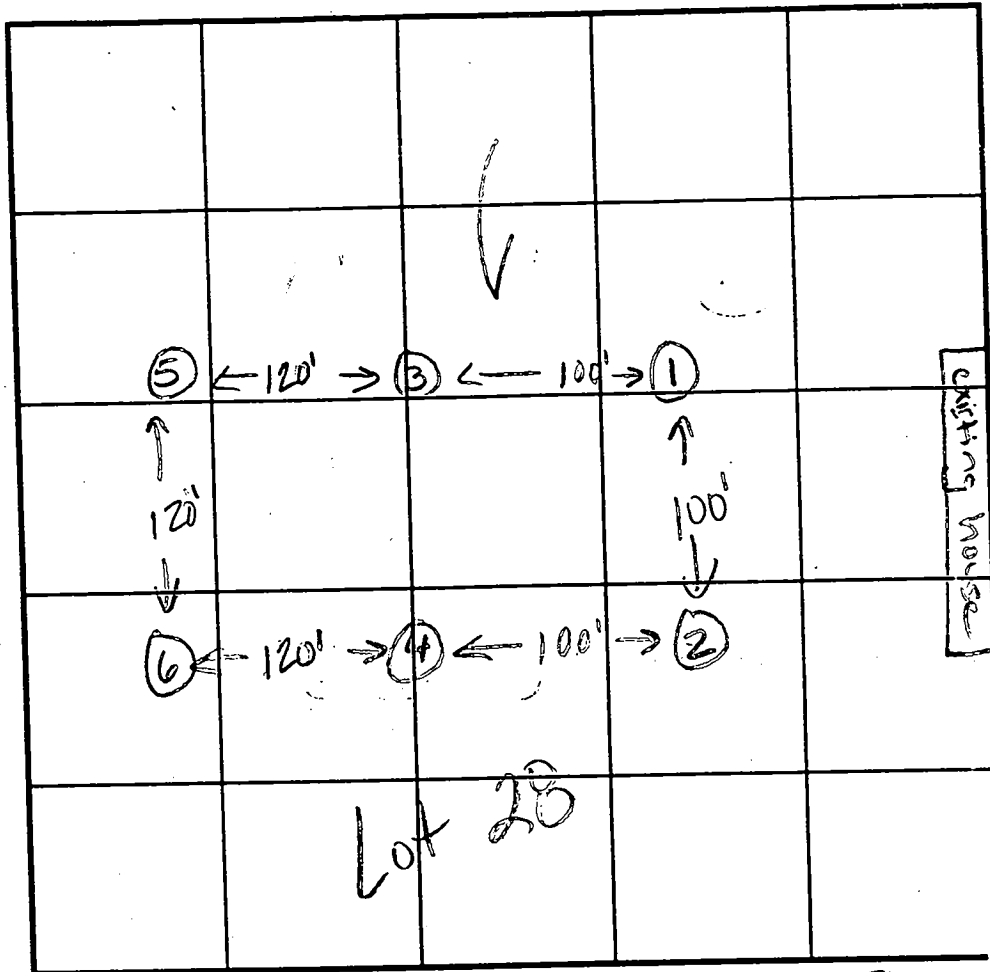
12.0' 1/2 tan/pink silty sand loam 20% shale frags

5

3.0' or/br clay 1m

11.5' 1/2 tan/or silty sand 1m 20% shale frags

SOIL PROFILE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE. Shady Lane

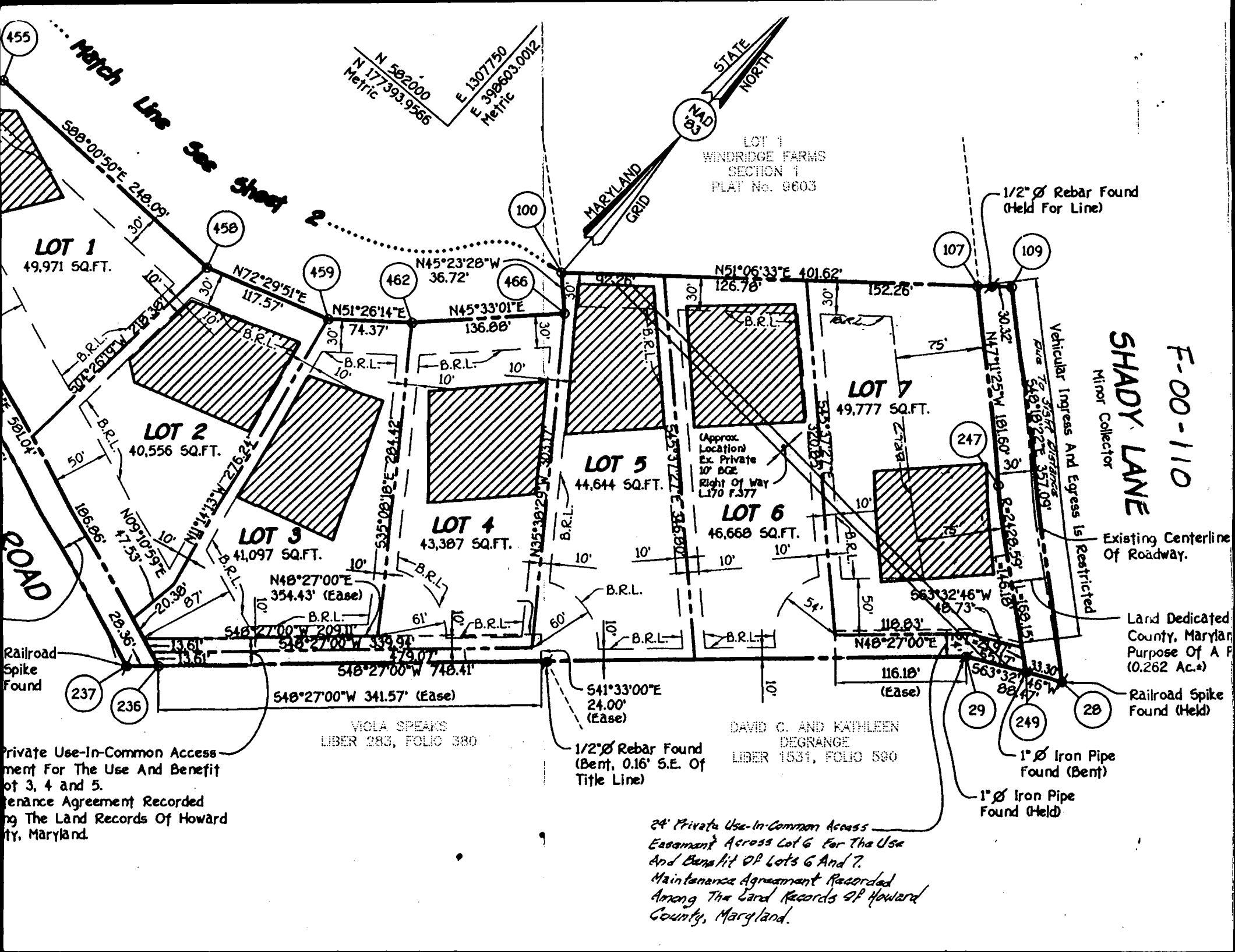
| DATE     | TEST NO. | DEPTH    | PRE-WET                 |        | TEST - 1" DROP |      | TIME |  |
|----------|----------|----------|-------------------------|--------|----------------|------|------|--|
|          |          |          | START                   | STOP   | START          | STOP |      |  |
| 10/14/97 | 1        | 2.5'S    | 1:09                    | 1:11   | 1:11           | 1:13 | 2min |  |
|          |          | 11.0' 0) | visual ok - see profile |        |                |      |      |  |
|          | 2        | 3.0'S    | 1:16                    | 1:17   | 1:17           | 1:21 | 4min |  |
|          |          | visual   | ok - same as hole #1    |        |                |      |      |  |
|          | 3        | 2.5'S    | 1:27                    | 1:29   | 1:29           | 1:32 | 3min |  |
|          |          | visual   | ok - same as hole #4    |        |                |      |      |  |
|          | 4        | 2.5'S    | 1:2040                  | 1:2220 | 1:2220         | 1:25 | 2:40 |  |
|          |          | 12.0' 0) | visual ok - see profile |        |                |      |      |  |
|          | 5        | 3.0'S    | 1:37                    | 1:40   | 1:40           | 1:43 | 3min |  |
|          |          | visual   | ok - see profile        |        |                |      |      |  |

REMARKS 6 visual ok - same as hole #5

TYPE OF SOIL  
TESTED BY Kim Maisto / Chris Williams ALSO PRESENT Hugo + Jeff

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 3 minutes TRENCH WIDTH 3

INLET DEPTH 3 MAXIMUM BOTTOM DEPTH 5 SQ. FT./BEDROOM 180



455  
Match Line See Sheet 2

N 582000  
Metric  
N 177393.9566  
E 1307750  
Metric  
E 398603.0012

STATE NORTH  
MARYLAND GRID

LOT 1  
WINDRIDGE FARMS  
SECTION 1  
PLAT No. 9603

LOT 1  
49,971 SQ.FT.

LOT 2  
40,556 SQ.FT.

LOT 3  
41,097 SQ.FT.

LOT 4  
43,387 SQ.FT.

LOT 5  
44,644 SQ.FT.

LOT 6  
46,668 SQ.FT.

LOT 7  
49,777 SQ.FT.

1/2" Ø Rebar Found  
(Held For Line)

SHADY LANE  
Minor Collector

F-00-110

Vehicular Ingress And Egress Is Restricted  
Due To Street Dimensions  
548'18"22"25"357'09"

Existing Centerline  
Of Roadway.

Land Dedicated  
County, Maryland  
Purpose Of A P  
(0.262 Ac.)

Railroad Spike  
Found (Held)

Road  
Railroad Spike Found

Private Use-In-Common Access  
ment For The Use And Benefit  
of 3, 4 and 5.  
Maintenance Agreement Recorded  
Among The Land Records Of Howard  
County, Maryland.

VICIA SPEAKS  
LIBER 283, FOLIO 380

1/2" Ø Rebar Found  
(Bent, 0.16' S.E. Of  
Title Line)

DAVID C. AND KATHLEEN  
DEGRANGE  
LIBER 1531, FOLIO 590

1" Ø Iron Pipe  
Found (Bent)

1" Ø Iron Pipe  
Found (Held)

24' Private Use-In-Common Access  
Easement Across Lot 6 For The Use  
And Benefit Of Lots 6 And 7.  
Maintenance Agreement Recorded  
Among The Land Records Of Howard  
County, Maryland.

**LOTS 1 thru 8 WINDRIDGE PERC HOLES**

Lot 1 – 22A, 22B, 22F, 22G, 22H

Lot 2 – 24A, 24B, 24D/25C, 24E,

Lot 3 – 24D/25C, 25A, 25D/26B, 25E, 26C

Lot 4 – 26A/27B, 26D/27C, 26E, 26F

Lot 5 – 26A/27B, 26D/27C, 27A, 27D

Lot 6 – 27A, 27D, 28/1, 28/3

Lot 7 – 28/4, 28/5, 28/6

Lot 8 – OPEN SPACE

Buildable Preservation Parcel A –

Alternate area – P1, P2, P3, P4

Existing House – Ex. Hs. A, Ex. Hs. B



C1 07737

SEQUENCE NO. (MDE USE ONLY)

STATE MARYLAND WELL COMPLETION REPORT

FILL IN THIS FORM COMPLETELY PLEASE TYPE

THIS REPORT MUST BE SUBMITTED AFTER WELL IS COMPLETED. 10/31/00 OK (30)

COUNTY NUMBER 13

ST/CO USE-ONLY DATE Received MM DD YY

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL" H0-94-2648

OWNER BRS DEVELOPERS STREET OR RFD SHADY LANE TOWN GLENELG SUBDIVISION WINDRIDGE FARM SECTION LOT 6

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed) FEET FROM TO check if water bearing

Table with 3 columns: Description, Feet (From/To), and Check if water bearing. Includes entries for Top Sol, Sandy Sandstone, MICKA, Sandstone, MICKA, Dry Hole well cuttings, #2 Cement.

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one) CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 15 NO. OF POUNDS 350 GALLONS OF WATER 90 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 30 ft.

CASING RECORD

OTHER CASING (if used) diameter inch depth (feet) from to MAIN CASING TYPE SF Nominal diameter top (main) casing (nearest inch)! 6 Total depth of main casing (nearest foot) 73

SCREEN RECORD

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

DEPTH (nearest ft.)

DEPTH (nearest ft.) HO 71 105

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

TELESCOPE CASING LOG INDICATOR OTHER DATA

C3

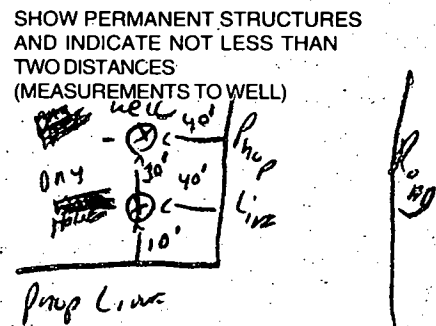
PUMPING TEST

HOURS PUMPED (nearest hour) 3/8/9 PUMPING RATE (gal. per min.) 10. PUMPING RATE (gal. per min.) 10. METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 30 ft. WHEN PUMPING 35 ft. TYPE OF PUMP USED (for test) S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) 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) 31 35 PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box and enter casing height) (+) above LAND SURFACE (nearest foot) (2) below

LOCATION OF WELL ON LOT



NUMBER OF UNSUCCESSFUL WELLS: 2

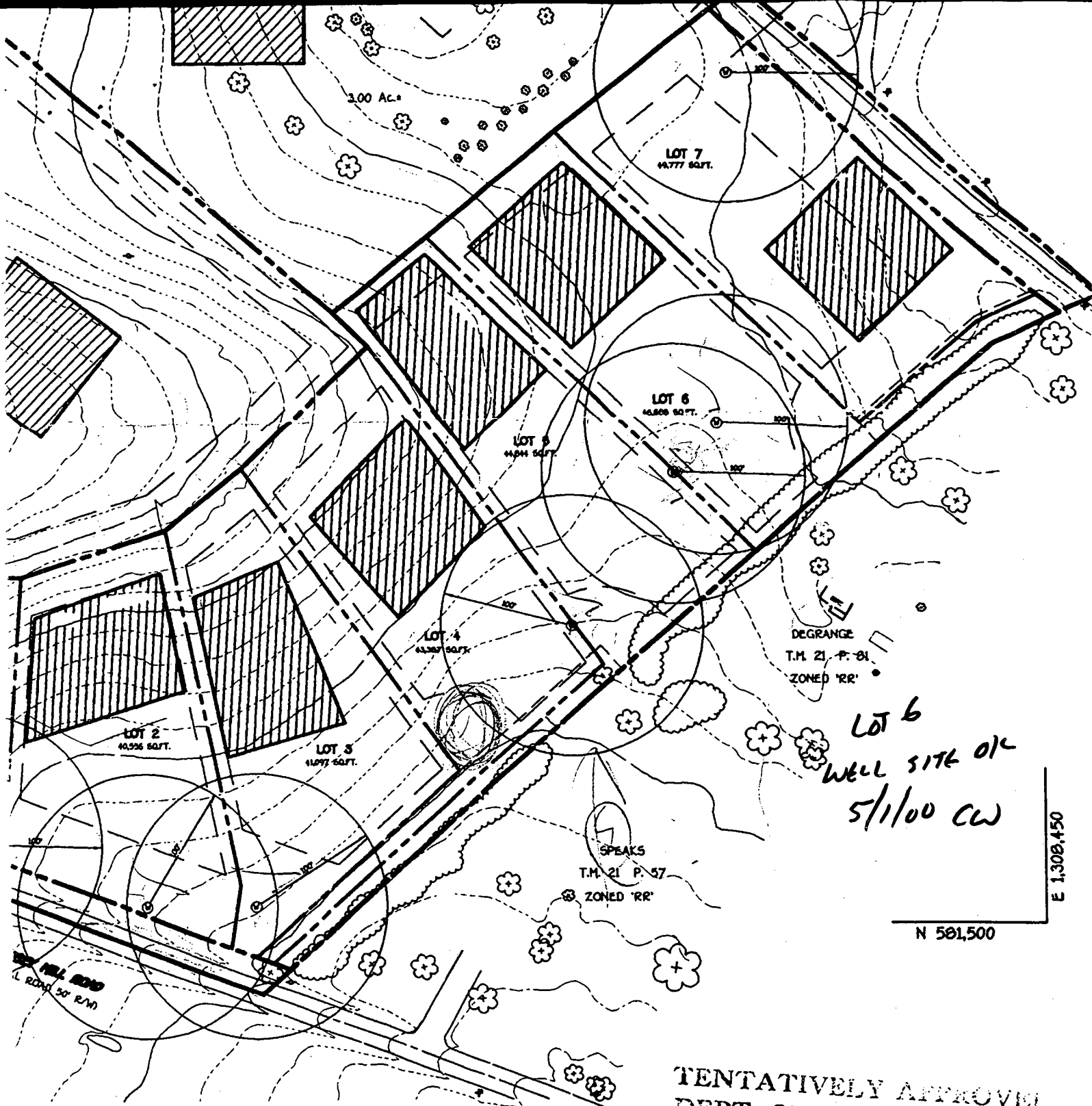
WELL HYDROFRACTURED YES (Y) NO (N)

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, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. 1 M SD 116 DRILLERS SIGNATURE LIC. NO. 1 MS D 117

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

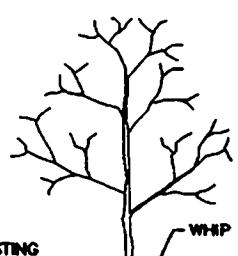


LOT 6  
WELL SITE OK  
5/1/00 CW

N 501,500  
E 1,308,450

TENTATIVELY APPROVED  
DEPT. OF PLANNING AND  
ZONING OF  
HOWARD COUNTY

*[Signature]*  
PLANNING DIRECTOR  
SA  
2/14/00  
DATE



BACKFILL WITH EXISTING  
NATIVE SOIL



|  |                             |  |   |
|--|-----------------------------|--|---|
| B 1 <b>18692</b><br><small>1 2 3 4 5 6</small> | SEQUENCE NO. (MDE USE ONLY) | STATE OF MARYLAND<br><b>PERMIT TO DRILL WELL</b><br>please print or type | STATE PERMIT NUMBER<br><b>Ho - 94 - 2648</b><br><small>70 fill in this form completely 79</small> |
|--|-----------------------------|--|---|

Date Received (APA) \_\_\_\_\_

**OWNER INFORMATION**

8 MM DD YY 13  
**BAS** **Developers LLC**

15 Last Name Owner First Name 34  
**8808 Centre Park Dr. Suite 209**

36 Street or RFD 55  
**Columbia MD 21045**

57 Town 70 State 72 Zip 76

B 3 **Howard** LOCATION OF WELL

8 COUNTY 21  
**WINDRIDGE FARM**

23 SUBDIVISION 42

SECTION      44 46 LOT 6 48 50

**GLENEGG**

52 NEAREST TOWN 71

MILES FROM TOWN (enter 0 if in town) 3 M. I.  
73 76 77 78

**DRILLER INFORMATION**

**Ralph MAYNE** **MSD 116**

Driller's Name 76 License No. 81

Firm Name  
**Ralph MAYNE well DRILLING**

Address  
**9120 Brown Church Rd. Mt Airy**

Signature **Ralph Mayne** Date **3-26-00**

B 4

1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

11 NEAR WHAT ROAD 30  
**SHADY LA.**

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

34 300 37 DISTANCE FROM ROAD  
ENTER FT OR MI 38 39

TAX MAP: \_\_\_\_\_ BLK: \_\_\_\_\_ PARCEL \_\_\_\_\_

B 2 **WELL INFORMATION**

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

8 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500

14 20

**USE FOR WATER (CIRCLE APPROPRIATE BOX)**

DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

22  INDUSTRIAL, COMMERCIAL, DEWATERING

PUBLIC WATER SUPPLY WELL

TEST, OBSERVATION, MONITORING

GEO-THERMAL

**NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL**

**Howard** **13**

COUNTY NAME COUNTY NO.

STATE SIGNATURE \_\_\_\_\_ INSERT S →

DATE ISSUED **05 01 00** **C. W. ...** **4/30/01**

43 MM DD YY 48 CO SIGNATURE EXP. DATE

NORTH GRID **797 000** EAST GRID **0526 000**

50 55 57 63

APPROXIMATE DEPTH OF WELL 150 FEET

24 28

APPROXIMATE DIAMETER OF WELL 6" NEAREST INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X →

SOURCES OF DRILLING WATER

1. **well**

2.

3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 5267

N 796

000  
000

**METHOD OF DRILLING (circle one)**

BORED (or Augered) JETTED Jetted & DRIVEN

39  AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)

37 CABLE REVerse-ROTARY DRive-POINT

other \_\_\_\_\_

**REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX)**

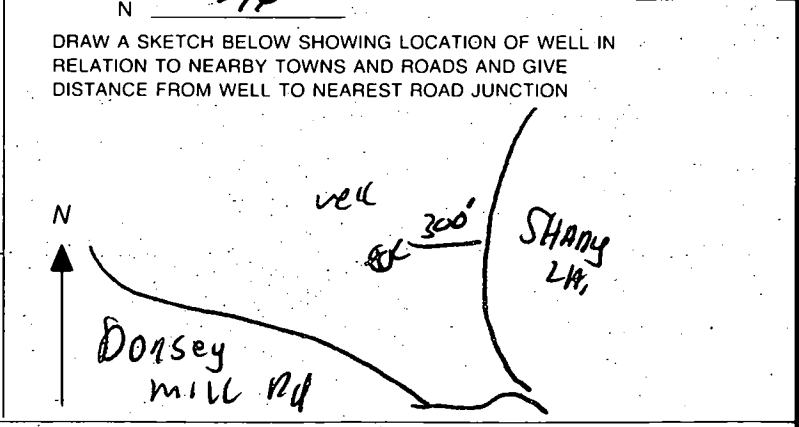
THIS WELL WILL NOT REPLACE AN EXISTING WELL

THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED

39  THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

THIS WELL WILL DEEPEIN AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 \_\_\_\_\_ 52



**Not to be filled in by driller (MDE OR COUNTY USE ONLY)**

APPROX. PERMIT NUMBER 54 \_\_\_\_\_ G A P \_\_\_\_\_ 63

PERMIT No. **Ho - 94 - 2648**

70 71 72 73 74 75 76 77 78 79

