

LAYOUT 10/11/02 11am INSP 4 11/15/02 11am
INSP 2 10/15/02 10am INSP 5 3/19/03 3pm
INSP 3 10/18/02 INSP 6 _____

ISSUE DATE: 10/8/2002

PERMIT

P 517952

APPROVAL DATE: 3/19/03

A 48146-A

ON-SITE SEWAGE DISPOSAL SYSTEM HOWARD COUNTY HEALTH DEPARTMENT BUREAU OF ENVIRONMENTAL HEALTH

Hatfields Equipment IS PERMITTED TO INSTALL ☒ ALTER ☐

ADDRESS: 13785 Burntwoods Road, Glenelg PHONE NUMBER: 301-854-6172

SUBDIVISION: Humphries Property LOT NUMBER: 1

ADDRESS: 14460 Triadelphia Mill Road PROPERTY OWNER: The Griffmore Group, LLC

SEPTIC TANK CAPACITY (GALLONS): 1000 ← OUTLET BAFFLE FILTER REQUIRED ☐

PUMP CHAMBER CAPACITY (GALLONS): 1000 ← COMPARTMENTED TANK REQUIRED ☐

NUMBER OF BEDROOMS: 3
SQUARE FEET PER BEDROOM: 180
** Recommend a 1500 2 compartment, top sealed. Also recommend a ~~filter~~ baffle due to proximity of Triadelphia Reservoir.*

LINEAR FEET OF TRENCH REQUIRED: 180 HOUSE SERVED BY PUBLIC WATER ☐

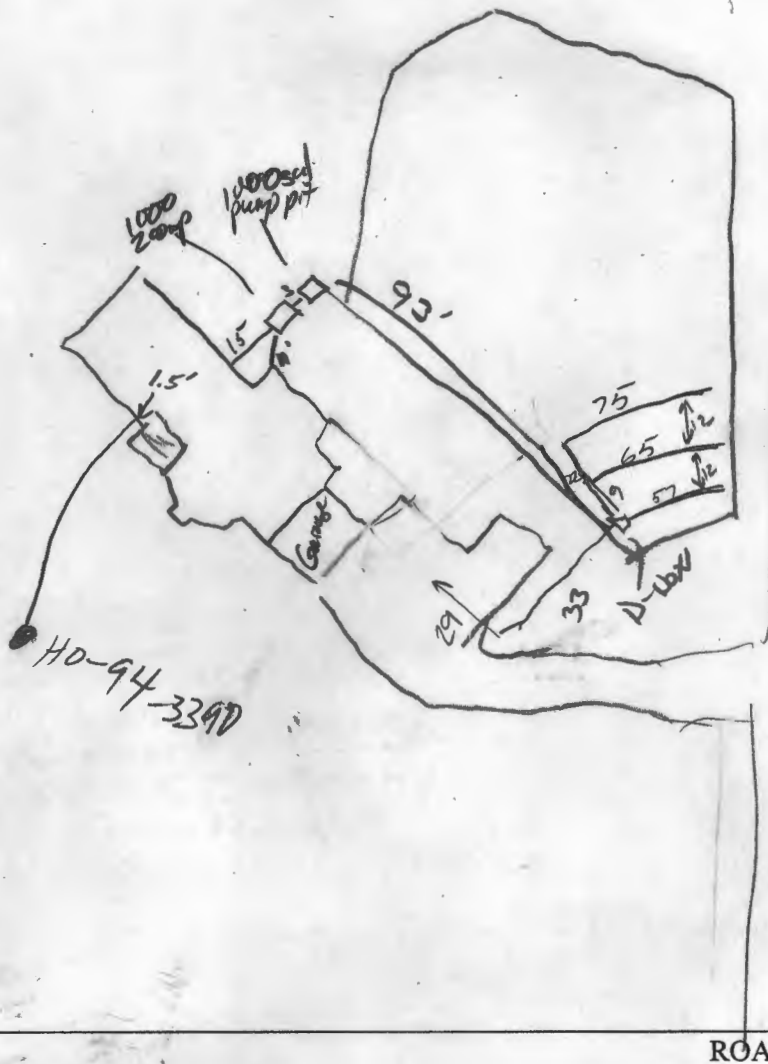
TRENCHES:	Trench to be 3.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 5.0 feet below original grade. Effective area begins at 3.0 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION:	Place the distribution box <u>60'</u> from the intersection of the 849.35' panhandle lot line and the 248.89' south property line, and <u>45'</u> from that same south property line. Install trenches on contour as illustrated on the attached copy of the building permit plan, running west to east with a dog leg to the southeast.
NOTES:	You may install trenches beyond SDA boundary toward the east lot line to optimize trench placement and conserve area for future replacement systems or building additions. **SEE RECOMMENDATIONS ABOUT SEPTIC TANK CAPACITY**

PLANS APPROVED: Ron J. Pinkley ON SRK 7/16/02 DATE: 7/03/2002

NOTES: PERMIT VOID AFTER 2 YEARS
CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
WATERTIGHT SEPTIC TANKS REQUIRED
ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED
MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED
CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS 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
ALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM**

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3'	5'
NUMBER OF TRENCHES		3
TOTAL LENGTH		180'
ABSORPTION AREA		540 sq ft
DISTRIBUTION BOX LEVEL		✓
DISTRIBUTION BOX BAFFLE		✓
DISTRIBUTION BOX PORT		✓

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	
CAPACITY	1000 GAL
SEAM LOC	top
TANK LID DEPTH	2'
BAFFLES	✓
BAFFLE FILTER	
MANHOLE LOC	Front/back
6" PORT LOC	
WATERTIGHT TEST	not req'd
SEPTIC TANK 2 LEVEL	
CAPACITY	1000 GAL
SEAM LOC	top
TANK LID DEPTH	2'
BAFFLES	N/A
BAFFLE FILTER	N/A
MANHOLE LOC	middle
6" PORT LOC	
WATERTIGHT TEST	not req'd

PRE-CONSTRUCTION 10/11/02 Lot staked, may not get trench lengths on B.P.
 Area drops off more than shown Contr. to install comp. 1000 gal S.T.
 INSTALLATION w/ baffler filter & 1000 gal P.T. (SO) 10/15/02 Installed
 a 57/65/75 trenches. Baffle Filter not installed at time of final. O.K. to
 backfill trenches (SB) 3/19/03 Pump & Alarm tests OK (SO)

FINAL INSPECTOR

[Signature]

DATE OF APPROVAL

3/19/03

NO BASEMENT SERVICE BY GRAVITY

HOUSE: INV. = 494.5

SEPTIC TANK: EX. GRADE = 495.6

TOP OF TANK = 495.1

INV. IN = 494.1

INV. OUT = 493.8

PUMP TANK: EX. GRADE = 495.3

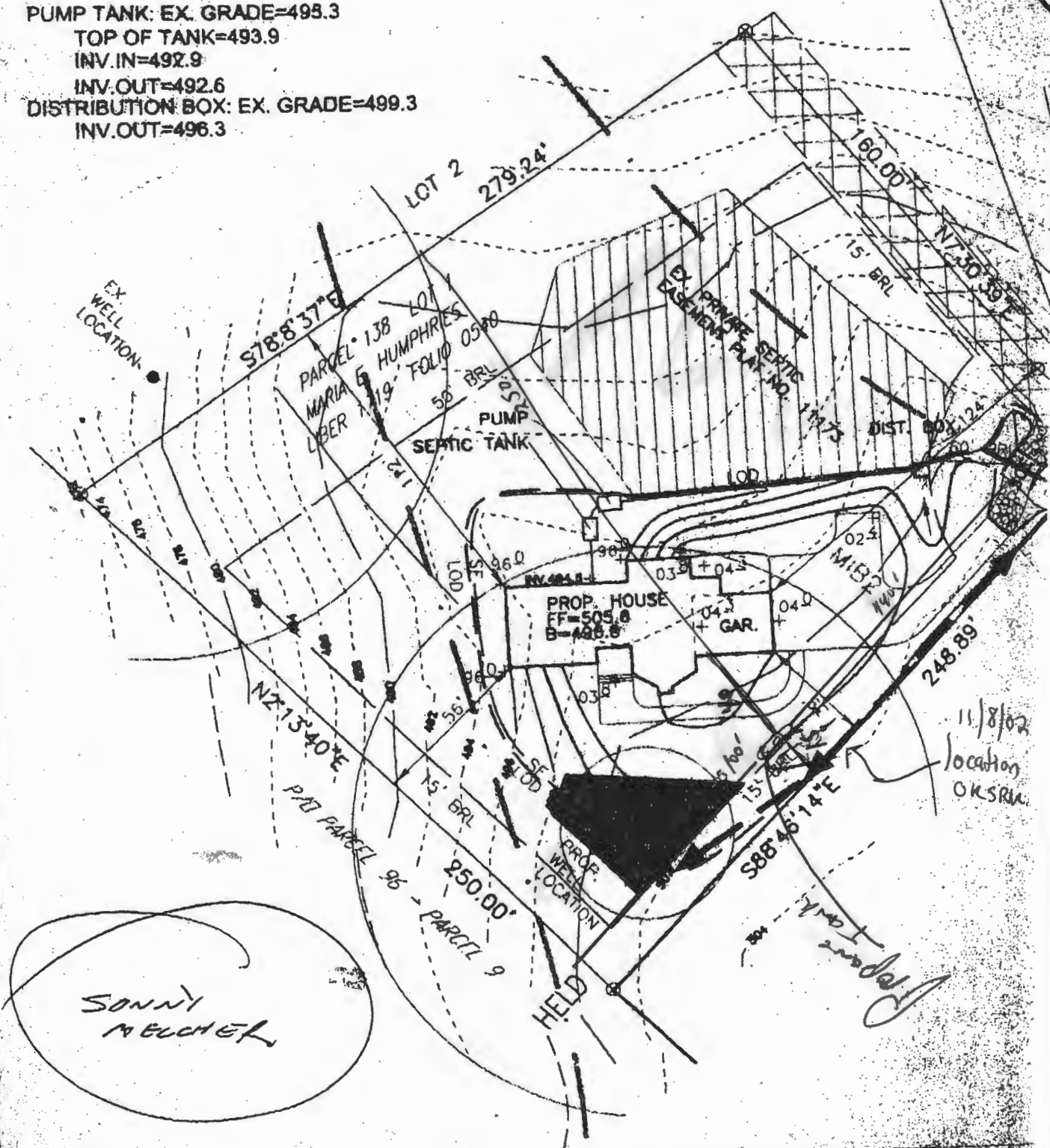
TOP OF TANK = 493.9

INV. IN = 492.9

INV. OUT = 492.6

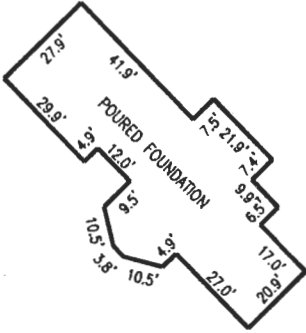
DISTRIBUTION BOX: EX. GRADE = 499.3

INV. OUT = 496.3

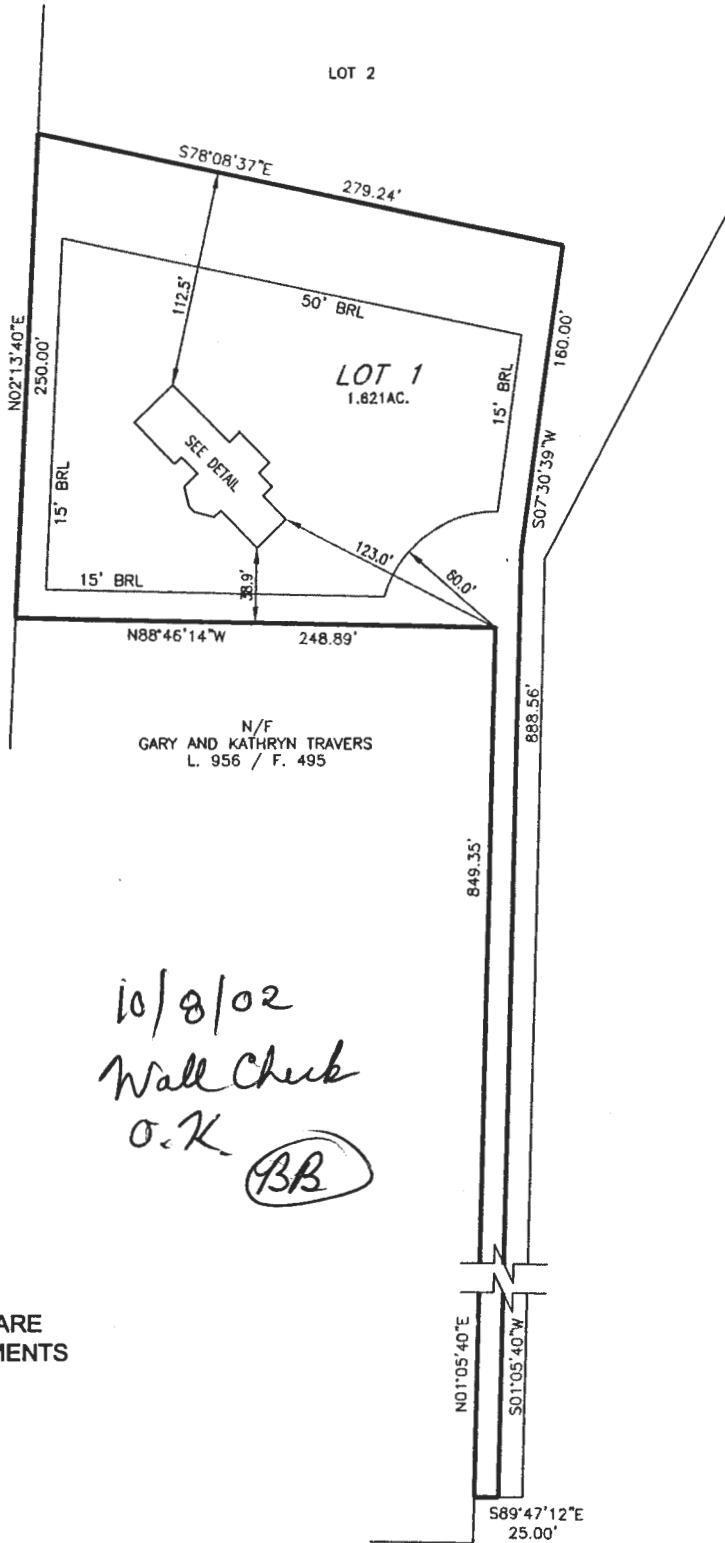


Maryland State Grid Meridian (NAD 83)

N/F
KENNETH AND RITA HOHENBRICK
L. 1282 / F. 186



HOUSE DETAIL
SCALE: 1"=50'



TRIDELPHIA MILL ROAD

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE,
INFORMATION AND BELIEF THAT THE IMPROVEMENTS ARE
LOCATED AS SHOWN AND THERE ARE NO ENCROACHMENTS
EXCEPT AS SHOWN.



James Robert Meeks 8/12/02
JAMES ROBERT MEEKS, LS #10857 DATE

TOP OF WALL = 503.23'

PLAT No. 11173	DATE 8-9-02
DR. BY TRB	CH. BY JRB
SCALE: 1"=100'	JOB NO. 2024038



**FREDERICK WARD
ASSOCIATES, INC.**

ENGINEERS
ARCHITECTS
SURVEYORS

7125 Riverwood Drive Columbia, Maryland 21046-2354
Phone: 410-290-9550 Fax: 410-720-6226
Bel Air, Maryland Warrenton, Virginia

**WALL CHECK
LOT 1
HUMPHRIES
PROPERTY
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND**

Humphries Property Lot 1
14460 Triadelphia Rd, Dayton, MD 21036 Scale 1"=50' Effluent
NO BASEMENT SERVICE BY GRAVITY
HOUSE-INV = 494.5
SEPTIC TANK EX. GRADE=495.6
TOP OF TANK=495.1
INV. IN=494.1
INV. OUT=493.8
PUMP TANK EX. GRADE=495.3
TOP OF TANK=493.9
INV. IN=492.9
INV. OUT=492.6
DISTRIBUTION BOX EX. GRADE=499.3
INV. OUT=496.3

Recommend a Micro Raffle Filter
due to properties proximity to Triadelphia Reservoir
4/13/02

GENERAL NOTES

- Length of trenches to be determined at time of permit issuance.
- Existing topography was field run by Frederick Ward Assoc. Inc. on or about March, 2002.
- Reference: F 93-143
- Total area of disturbance: 0.438 ac

SEQUENCE OF CONSTRUCTION

- Obtain Grading permit.
- Install sediment control as shown on plan in accordance with details (2 days)
- Clear and rough grade site (1 week)
- Construct house (2 months)
- Final grade and stabilize the site with topsoil and seeding (see notes this plan) (3 days)
- After the site is permanently stabilized and permission is granted from Howard County Sediment Control Inspector, remove sediment controls and stabilize any remaining disturbed areas.

SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the Howard County Department of Inspection, License and Permits Sediment Control Division prior to the start of any construction (313-1855).
- All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes, and all slopes greater than 3:1, (b) 14 days as to all other disturbed or graded areas on the project site.

- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 7, HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding, sod, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.

Site Analysis:

Total Area	1.62 ac
Area Disturbed	0.438 ac
Area to be roofed or paved	0.142 ac
Area to be vegetatively stabilized	0.296 ac
Total Cut	107 cu
Total Fill	400 cu
Offsite waste/borrow area location	

- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized within one working day, whichever is shorter.
- To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

21.0 STANDARDS AND SPECIFICATIONS

Definition FOR TOPSOIL

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

Purpose

To provide a suitable soil medium for vegetable growth. Soil of concern here has low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

Conditions Where Practice Applies

- This practice is limited to areas having 2:1 or flatter slopes where:
 - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
 - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
 - The original soil to be vegetated contains material toxic to plant growth.
 - The soil is so acidic that treatment with limestone is not feasible.

II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

Construction and Material Specifications

- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experiment Station.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
 - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or a soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textures, subsoils and shall contain less than 5% by volume of clinders, stones, slag, coarse fragments, growth, sticks, roots, trash, or other materials larger than 1 and 1/2" in diameter.
 - Topsoil must be free of plants or plant parts such as Bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.
 - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas 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 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

PERMANENT SEEDING NOTES

APPLY TO GRADDED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

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

SOIL AMENDMENTS: In lieu of soil test recommendations, use one of the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./100 sq.ft.) and 600 lbs per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At the time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (8 lbs./1000 sq.ft.).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and apply 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

SEEDING: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.05 lbs./1000 sq.ft.) of weeping lovegrass. During the period of October 15 thru February 28, protect site by Option (1) 2 tons per acre well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 80 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 80 lbs./1000 sq.ft.) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

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

TEMPORARY SEEDING NOTES

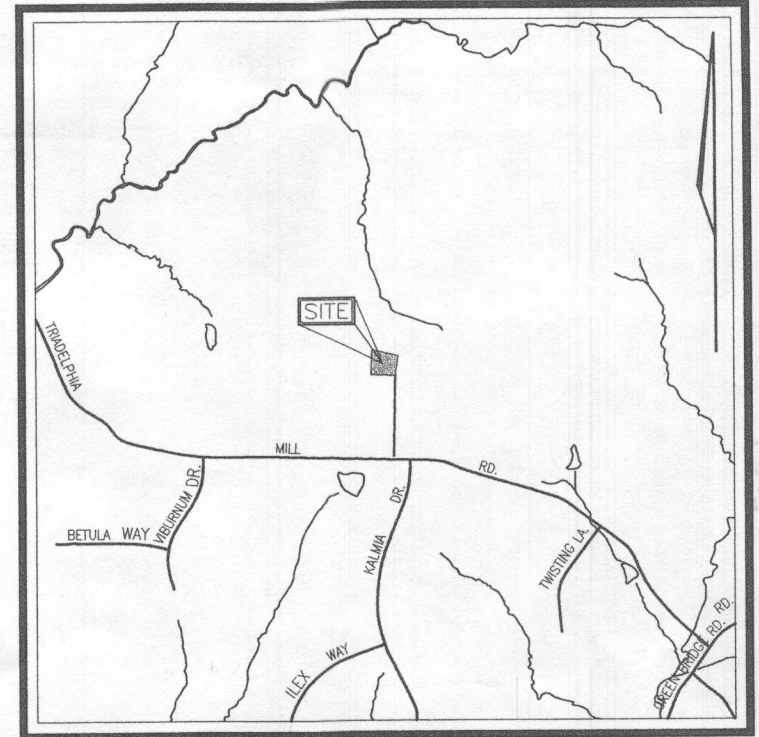
SEEDBED PREPARATION: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

SOIL AMENDMENTS: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.).

SEEDING: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual ryegrass (2.2 lbs./1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 sq.ft.). For the period November 1 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 80 lbs./1000 sq.ft.) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



VICINITY MAP

SCALE: 1"=2000'

LEGEND

- Existing Contour
- Proposed Contour
- Spot Elevation
- Direction of Flow
- Existing Trees to Remain
- Stabilized Construction Entrance
- Silt Fence
- Earth Dike
- Limit of Disturbance

OWNER: MARIA MELCHER
PROP. ADDRESS: 14460 TRIADELPHIA MILL RD.
DAYTON MD 21036

BUILDER: THE GRIFMORE GROUP LLC
4231 LINTHICUM RD
DAYTON MD 21036

ENGINEERS CERTIFICATE

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

SIGNATURE OF ENGINEER
ROBERT H. VOGEL

DATE
4/29/02

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A 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.

SIGNATURE OF DEVELOPER

DATE
4/29/02

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

Jim Mages
USDA - NATURAL RESOURCE CONSERVATION SERVICE
5/1/02

THIS DEVELOPMENT PLAN IS A FIELD FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

John R. Robertson
HOWARD SCD
5/1/02

PLOT PLAN TRIADLPHIA MILL ROAD HUMPHRIES PROPERTY

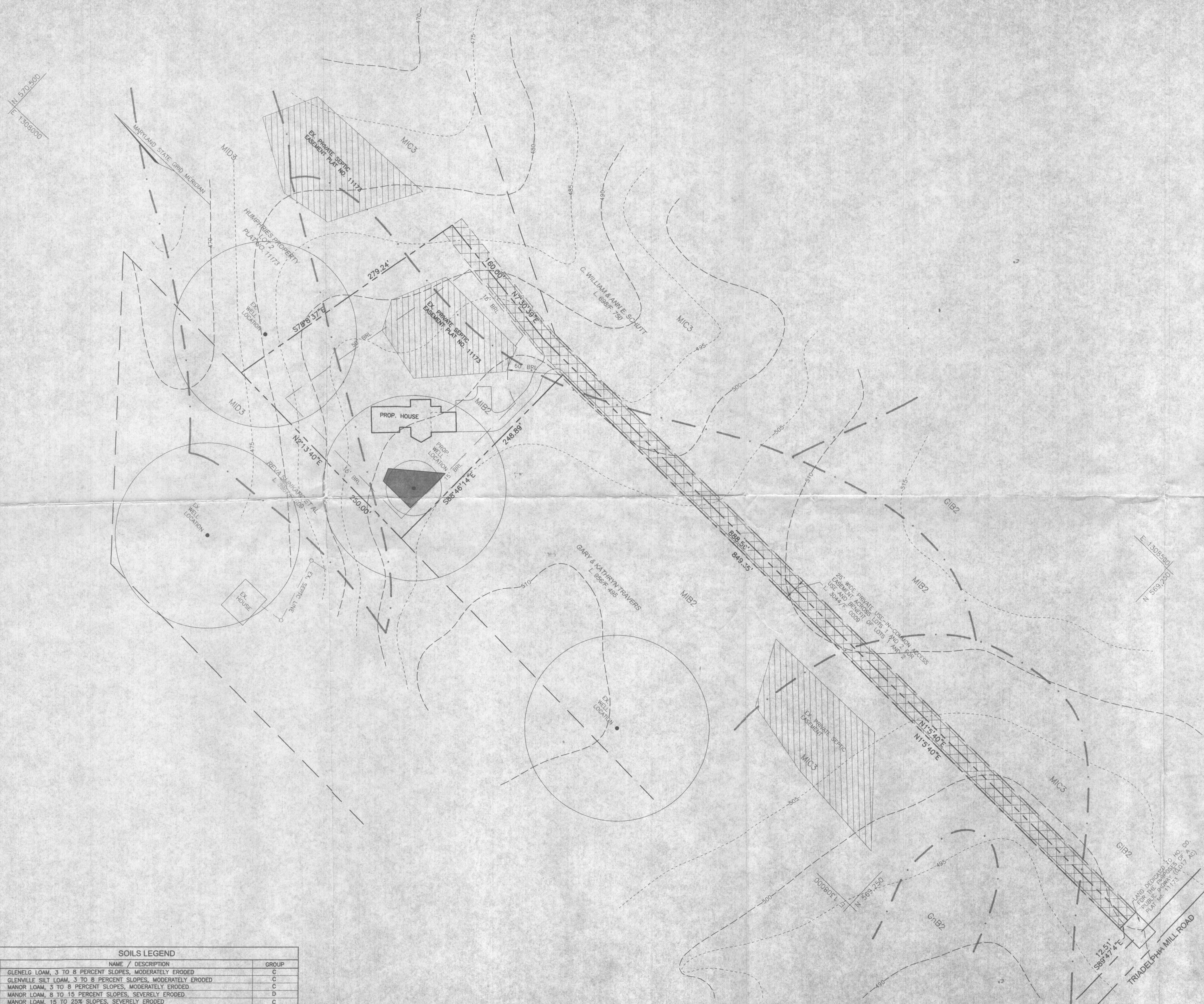
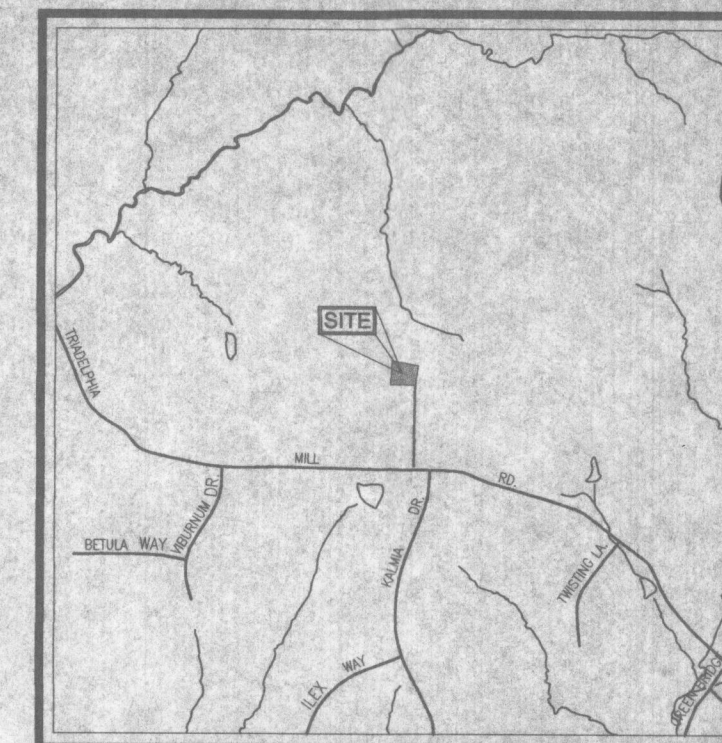
LOT 1
TAX MAP 27
5TH ELECTION DISTRICT
ZONED: RR-DEO
PARCEL '138'
HOWARD COUNTY, MARYLAND
REF.: F-93-143

FREDERICK WARD ASSOCIATES, INC.
7125 Riverwood Drive Columbia, Maryland 21046-2354
Phone: 410-290-9550 Fax: 410-720-6226
Bel Air, Maryland Columbia, Maryland Warrenton, Virginia



DESIGN BY: MHM
DRAWN BY: MHM
CHECKED BY: JCO
DATE: APRIL, 2002
SCALE: 1"=50'
W.O. NO.: 2024038.0

1 SHEET OF 1



SOILS LEGEND		
SYMBOL	NAME / DESCRIPTION	GROUP
GB2	GLENELG LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	C
GnB2	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	C
MB2	MANOR LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	C
WC3	MANOR LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED	D
WD3	MANOR LOAM, 15 TO 25% SLOPES, SEVERELY ERODED	C

PAGE 17 OF THE HOWARD COUNTY SOIL SURVEY

PLOT PLAN HUMPHRIES PROPERTY LOT 1

TAX MAP 27
5TH ELECTION DISTRICT
ZONED: RR-DEO

PARCEL '138'
HOWARD COUNTY, MARYLAND
REF: F-93-143



FREDERICK WARD ASSOCIATES, INC.

ENGINEERS 7125 Riverwood Drive Columbia, Maryland 21046-2354
ARCHITECTS Phone: 410-290-9550 Fax: 410-720-6226
SURVEYORS Bel Air, Maryland Columbia, Maryland Warrenton, Virginia

DESIGN BY: JCO
DRAWN BY: CMH
CHECKED BY: JCO
DATE: MARCH 2002
SCALE: 1"=50'
W.O. NO.: 2014020.0

1 SHEET 1

ROBERT H. VOGEL PE No. 16195