

LAYOUT 12/20/2010 INSP 4 \_\_\_\_\_  
 INSP 2 12/21/2010 INSP 5 \_\_\_\_\_  
 INSP 3 12/22/2010 INSP 6 \_\_\_\_\_

ISSUE DATE: 11-3-10

# PERMIT

P 534084

APPROVAL DATE: 1/6/2011

A 514619

Tax ID # 03-342514

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

Trinity Quality Homes IS PERMITTED TO INSTALL  ALTER

ADDRESS: \_\_\_\_\_ PHONE NUMBER: 413-324-9806

SUBDIVISION: Preserve at Waverly Glen LOT NUMBER: 12

ADDRESS: 1869 Mount Denali Drive PROPERTY OWNER: Trinity Quality Homes

SEPTIC TANK CAPACITY (GALLONS): 2000 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): 1500 COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 5 APPLICATION RATE: 1.2

SQUARE FOOTAGE OF HOUSE: Unkwn Inlet 4'

LINEAR FEET OF TRENCH REQUIRED: 129.16 Bottom 6'

TRENCHES:	Trenches 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 <del>3.0</del> 4' feet below original grade with 2.0 feet of stone below distribution pipe.
LOCATION:	Set septic tank per layout inspection. Set distribution box per layout inspection. Distribution box should be installed at the center of the easement at the highest point closest to the house. Install 129 feet of trench on contour per layout inspection.
NOTES:	<b>Do not</b> order the septic tank until after layout inspection and Sanitarian approval. Stake easement corners. Call for layout inspection. Mark utilities. Gravel tickets must be available for Environmental Sanitarians. Stone must be approved by the Howard County Health Department. A written variance request is required for tanks deeper than 3 feet. A traffic bearing lid is required for tanks deeper than 4 feet.

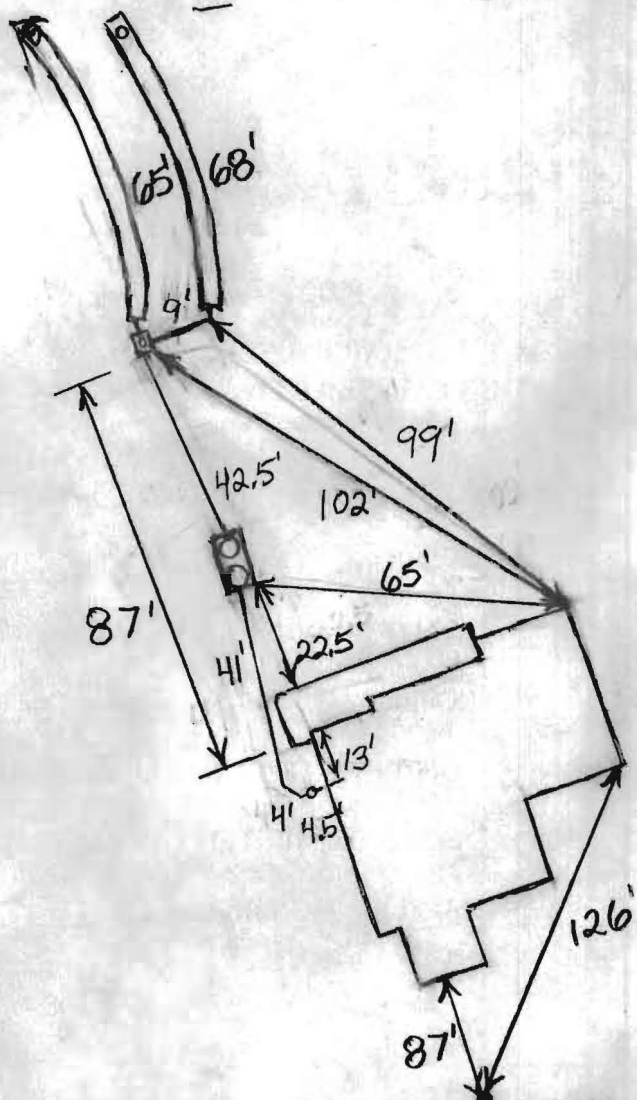
PLANS APPROVED: Dana Bernard DATE: 10/06/10

- NOTE: PERMIT VOID AFTER 2 YEARS
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

**NEITHER THE HOWARD COUNTY COUNCIL OR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM**  
**PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**  
**CALL 410-313-1771 FOR INSPECTION OF SEPTIC SYSTEM**

NOT TO SCALE

(40)



HO-94-3879

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4'	6'

NUMBER OF TRENCHES 2  
 TOTAL LENGTH 133'  
 ABSORPTION AREA 399 + Sidewall  
 DISTRIBUTION BOX LEVEL Levelers  
 DISTRIBUTION BOX BAFFLE Yes  
 DISTRIBUTION BOX PORT Yes

SEPTIC TANK DATA

SEPTIC TANK I LEVEL Yes  
 MANUFACTURER Baby/On  
 CAPACITY 2000 GAL  
 SEAM LOC Top  
 TANK LID DEPTH 1-1.5'  
 BAFFLES Yes  
 BAFFLE FILTER No  
 MANHOLE LOC Front+Rear  
 6" PORT LOC None  
 WATERTIGHT TEST No  
 SLOTTED Yes  
 DATE ON LID 11/10/2010

PUMP/SEPTIC TANK LEVEL N/A

MANUFACTURER \_\_\_\_\_  
 CAPACITY \_\_\_\_\_ GAL  
 SEAM LOC \_\_\_\_\_  
 TANK LID DEPTH \_\_\_\_\_  
 BAFFLES \_\_\_\_\_  
 BAFFLE FILTER \_\_\_\_\_  
 MANHOLE LOC \_\_\_\_\_  
 6" PORT LOC \_\_\_\_\_  
 WATERTIGHT TEST \_\_\_\_\_  
 SLOTTED \_\_\_\_\_  
 DATE ON LID \_\_\_\_\_

PRE-CONSTRUCTION:

12/20/2010 Set the dist. box near the top middle of the easement. Install two 65' trenches on contour towards the road. O.K. to set the tank partially in the corner of the easement. (BB)  
12/21/2010 Tank set. Dist. box set. House connection partially done. (BB)

INSTALLATION:

12/22/2010 Need house connection. (BB)  
1/6/211 House connection made. (BB)

FINAL INSPECTOR

B. Baker

DATE OF APPROVAL

1/6/2011

SEPTIC SPECIFICATIONS WORKSHEET

SUBDIVISION: The Preserve at Waverly Woods

A 54619-L

STREET NAME: \_\_\_\_\_

LOT NUMBER: 112

AVERAGE PERCOLATION RATE: \_\_\_\_\_

SQUARE FEET PER BEDROOM: 180

NUMBER OF BEDROOMS: \_\_\_\_\_

LINEAR FEET OF TRENCH PER BEDROOM: \_\_\_\_\_

TOTAL LINEAR FEET OF TRENCH: \_\_\_\_\_

SEPTIC TANK CAPACITY: \_\_\_\_\_

TOP SEAMED TANK REQUIRED? YES OR NO

COMPARTMENTED TANK REQUIRED? YES OR NO

TRENCH DIMENSIONS: 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.

PUMPED SYSTEM PROPOSED: YES OR NO

Pumped Septic System Detail: \_\_\_\_\_ gallon(s) pump chamber.

Top Seamed Pump Chamber Required? YES OR NO

Note 1: Septic pump detail to be provided by installer prior to issuance of septic permit.

Note 2: Pump performance test is necessary prior to Health Department approval of pump septic system.

LOCATION: \_\_\_\_\_

ADDITIONAL NOTES: \_\_\_\_\_

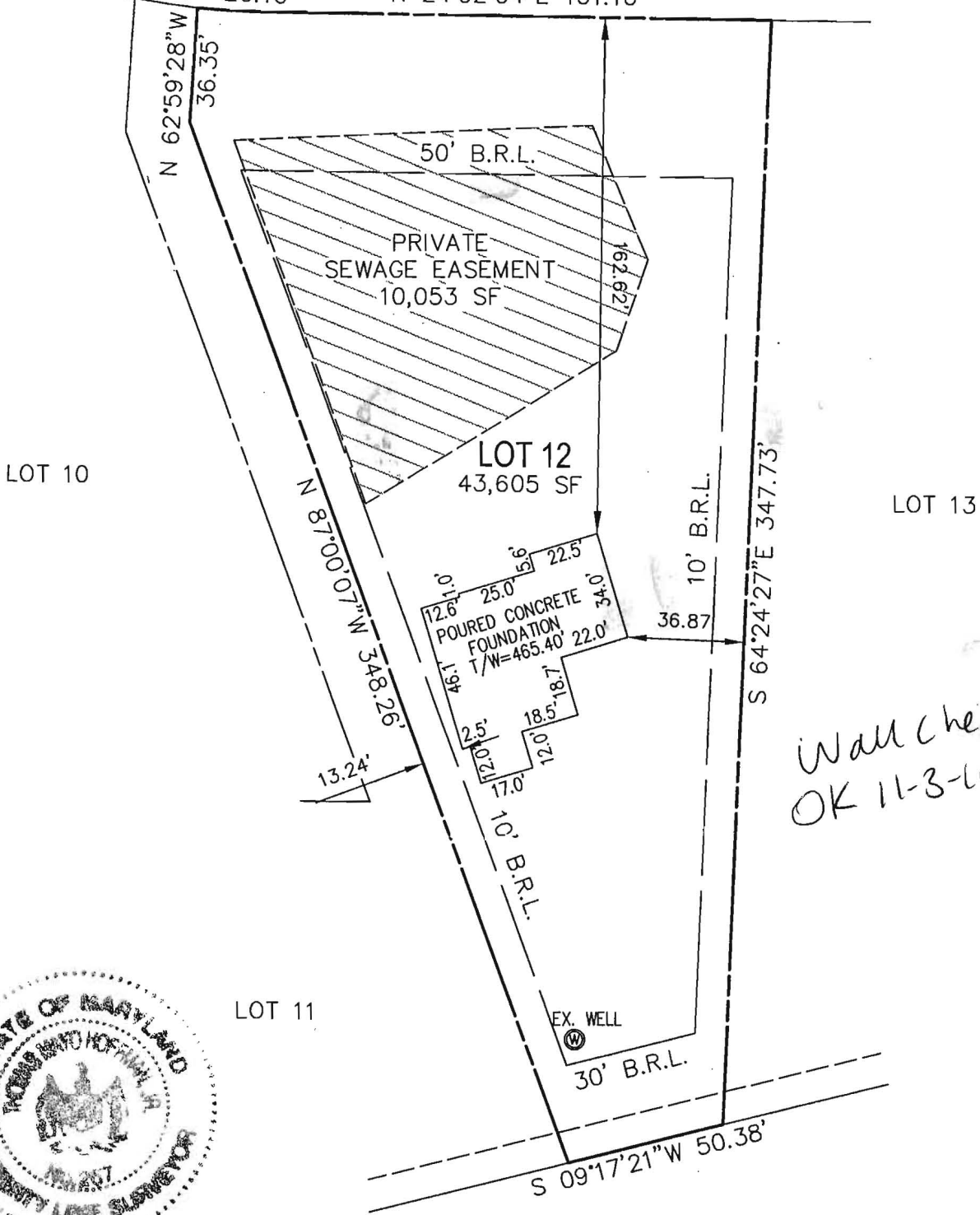
Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

MARYLAND STATE GRID MERIDIAN (NAD83/91)

**MOUNT DENALI COURT**

R= 220.00' 40' RIGHT-OF-WAY  
 L= 20.16' N 24°02'04"E 161.16'



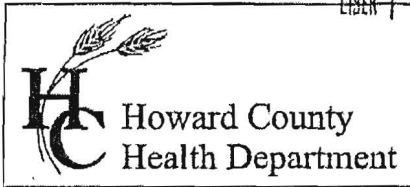
I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT THE IMPROVEMENTS ARE LOCATED AS SHOWN AND THERE ARE NO ENCROACHMENTS EXCEPT AS SHOWN.

*Thomas M. Hoffman Jr.* 10-27-10  
 THOMAS M. HOFFMAN JR., PROPERTY LINE SURVEYOR #267 DATE

1869 MOUNT DENALI DRIVE  
 BUILDING PERMIT NO. B10002783

THIS WALL CHECK DRAWING CONTAINS A HORIZONTAL TOLERANCE IN ACCURACY OF 0.1' AND A VERTICAL TOLERANCE IN ACCURACY OF 0.2'

SCALE 1"=50'	DATE 10/25/10	ROBERT H. VOGEL ENGINEERING, INC. ENGINEERS - SURVEYORS - PLANNERS 8407 MAIN STREET ELLICOTT CITY, MARYLAND 21043 TEL:410-461-7666 FAX:410-461-8961	WALL CHECK DRAWING LOT 12 THE PRESERVE AT WAVERLY GLEN PLAT No. 17061 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DRAWN BY B.D.A.	CHECKED BY T.M.H.		
PLAT NUMBER 17059-17069	JOB NUMBER 00-139.02		



BOOK 15303 FOLIO 395

Bureau of Environmental Health  
 7178 Columbia Gateway Drive Columbia, MD 21046  
 (410) 313-2640 Fax (410) 313-2648  
 TDD (410) 313-2323 Toll Free 1-866-313-6300  
 website: www.hchealth.org

000081

*Peter L. Beilenson, M.D., M.P.H., Health Officer*

**AGREEMENT FOR APPROVAL OF AN INDIVIDUAL DRINKING WELL WITH AN ON-SITE TREATMENT SYSTEM**

This agreement is entered into by and between the Howard County Health Department ("the Health Department") and Gregory and Lisa Ray \_\_\_\_\_ ("the Owner").

WHEREAS, the Owner owns a tract of land at street address 1869 Mount Denali Drive, Marriotsville, MD 21163 and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map # 10, Block # 9999, Parcel # 0330, Deed Reference # /12752/ 00128 and Tax Account # 342514 ("the Property").

WHEREAS, the Property lacks an available public drinking water source and is required to have an individual well as the source of drinking water for the residence of the property.

WHEREAS, the Owner has installed a residential drinking well under well permit HO-94-3879 that has been tested by the Health Department (or a private laboratory certified to perform testing) for radionuclide particles. The results of the tests have shown that the gross alpha particle content and/or the gross beta particle content and/or the combined radium 226/228 levels exceeds the standards of 15 picocuries per liter (pCi /L), 4 millirems per year (mrem/yr) and/or 5pCi/L respectively.

WHEREAS, The Maryland Department of the Environment (MDE) has promulgated rules and regulations under which a Certificate of Potability may be issued and has delegated the authority to issue such Certificate to the Health Department.

WHEREAS, MDE regulations permit the Health Department to issue as a special condition, a permanent deviation to the Certificate of Potability for individual wells where treatment has been installed to meet the maximum contaminate levels (MCL's) for radionuclides.

WHEREAS, MDE has determined that radium can be effectively removed from the drinking water by the use of treatment devices (e.g., ion exchange or reverse osmosis).

WHEREAS, the Owner is requesting that the Health Department issue a Certificate of Potability contingent upon installation and maintenance of a water treatment device to reduce radionuclides.

WHEREAS, neither the Owner nor the Health Department has knowledge of an alternative safe source of water for the Property.

20  
20  
93

IMP FD SURE \$	20.00
RECORDING FEE	20.00
TOTAL	40.00
Rec'd CHAS	Rec'd \$ 679
HRD JME	Dir \$ 1654
Jun 27, 2011	10:36 am

LINEA 13303 FOLIO 396

NOW THEREFORE, the parties have agreed to the following terms and conditions:

1. The Owner will record this Agreement among the Land Records of Howard County, Maryland and provide confirmation to the Health Dept.
2. The Owner agrees to install and maintain a water treatment device, which effectively reduces the gross alpha, gross beta and radium levels to below their respective MCL. The Health Department shall verify that the treatment device is operating effectively and the Owner agrees to allow access to the Health Department to collect a follow-up sample(s).
3. The Health Department shall issue a Certificate of Potability for the well once follow-up sampling shows acceptable gross alpha, gross beta (short and long term) and radium 226 / 228 levels.
4. The Owner agrees that there shall be no liability on part of the Health Department for any immediate or long term impacts to health or property, under any circumstance or including, but not limited to, treatment device failure, improper maintenance or installation, or defect. The Health Department does not warrant nor guarantee that the device will adequately or properly function and the Owner agrees to implement and pay for any necessary changes or corrections.
5. The Owner acknowledges and agrees that neither the Health Department nor any of its agents or employees, either officially or individually, underwrites the operation of any system or treatment device.
6. This Agreement shall not be construed to limit any authority of the Health Department to protect the public health, safety or enjoyment of property or to issue any other orders to take any other action, which is now or may hereafter be within its authority.
7. This agreement contains the entire agreement and understanding between the Health Department and the Owner. There are no additional terms other than as contained in this Agreement. This Agreement may not be modified except in writing signed by each of the parties or their authorized representatives.
8. The Agreement shall run with the land and binds the Owner, his heirs, successors, and assigns. The owner agrees to provide a copy of this agreement to any purchaser or lessee of the property.
9. The laws of the State of Maryland govern the provisions of all transactions.

The parties have signed and sealed this Agreement on the dates set forth below.

6/24/11  
Date

6/24/11  
Date

6/27/11  
Date

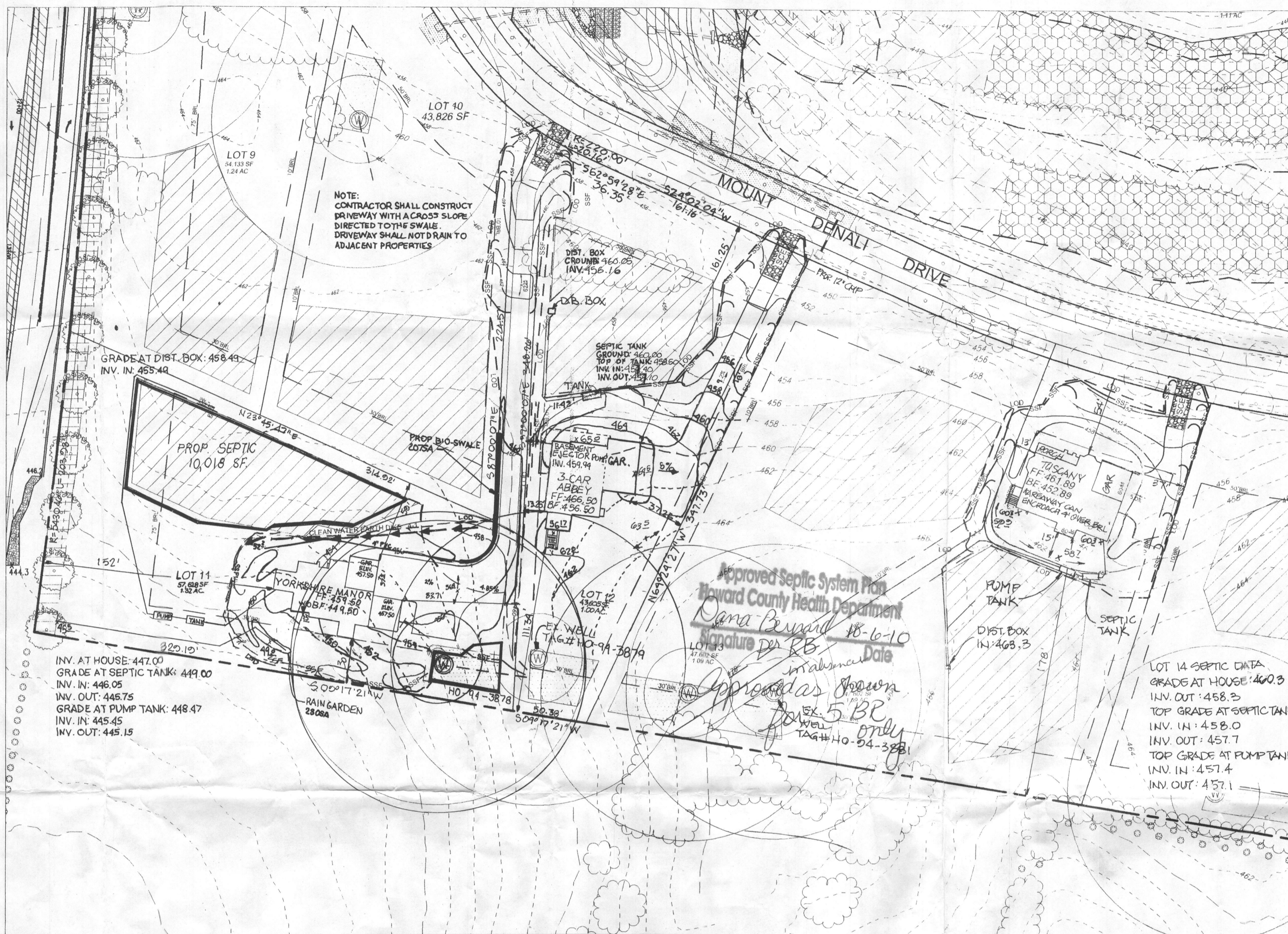
[Signature]  
Witness Robert Brown

[Signature]  
Owner GREGORY RAY

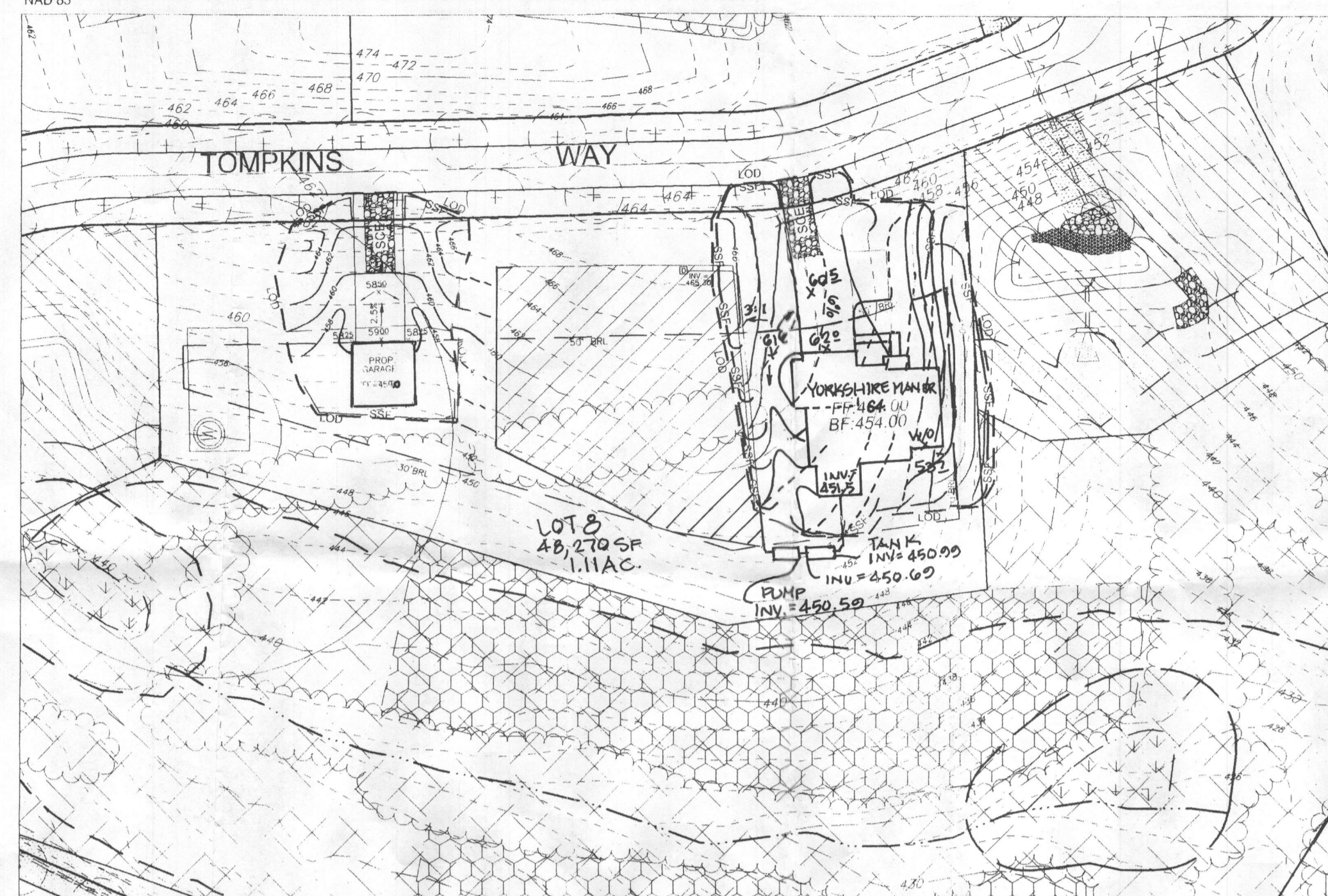
[Signature]  
Owner LISA GRAY

[Signature]  
Howard County Health Department  
MIKE DAVIS

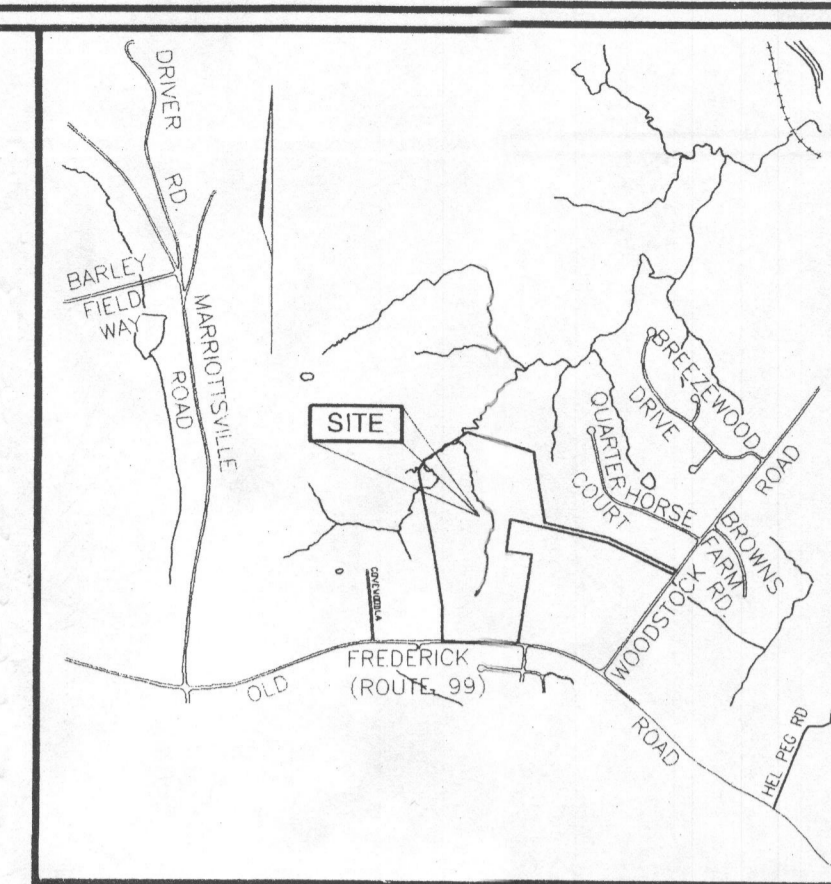
\_\_\_\_\_  
Witness



PLAN  
SCALE: 1"=50'



PLAN  
SCALE: 1"=50'

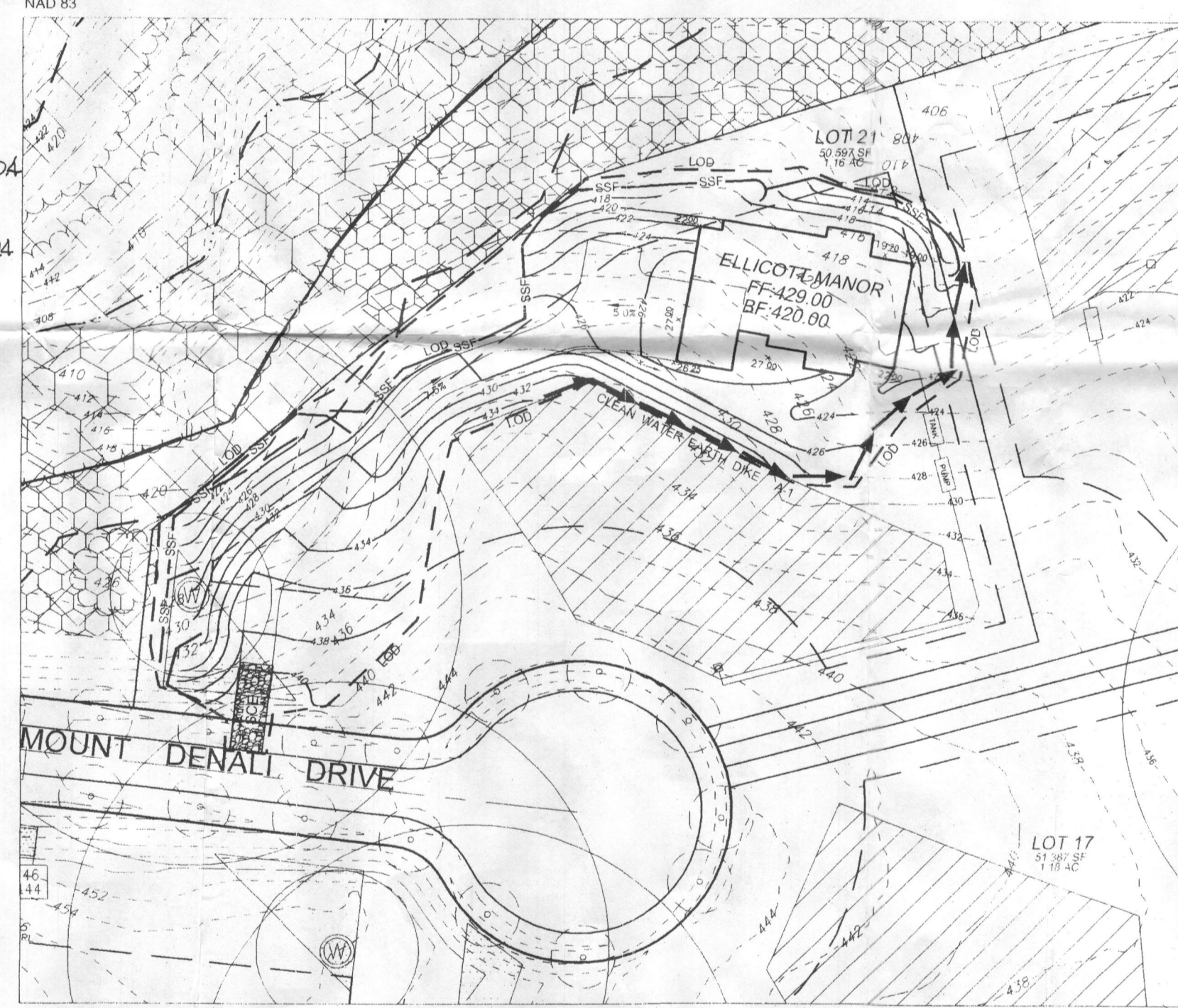


VICINITY MAP  
SCALE: 1"=2000'

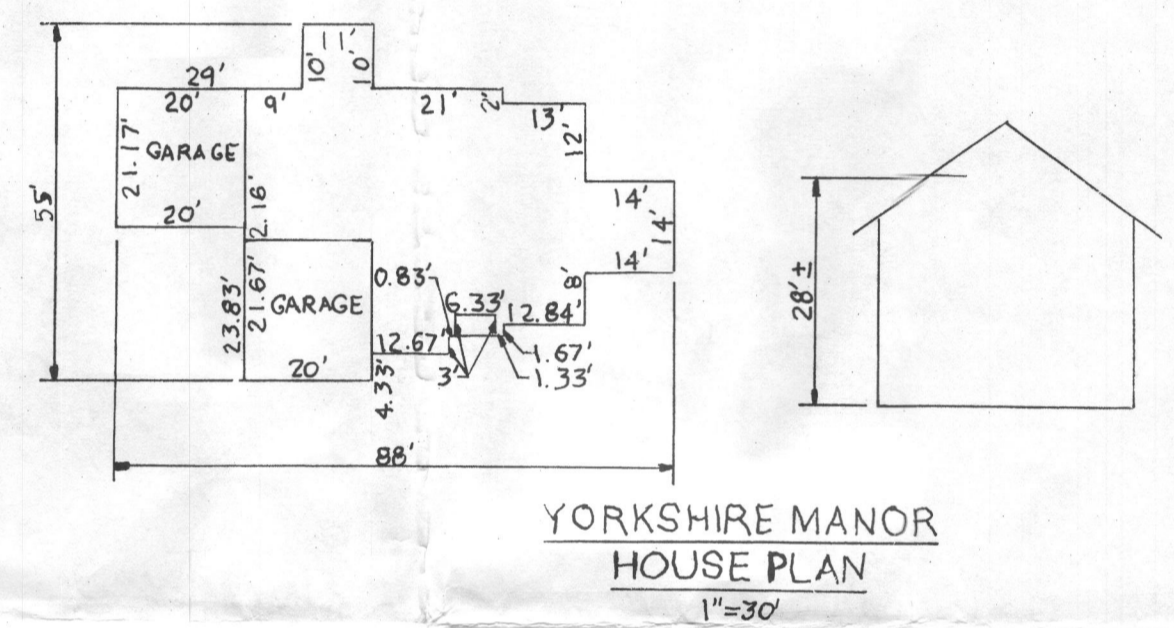
LEGEND

--- 202 ---	EXISTING 2 FT CONTOUR
--- 200 ---	EXISTING 10 FT CONTOUR
---	L.O.D.
---	LIMIT OF DISTURBANCE
---	SUPER SILT FENCE
---	EXISTING TREELINE

NOTE: NO STOCKPILING WILL BE PERMITTED ON SITE.



PLAN  
SCALE: 1"=50'



THE EXISTING WELL SHOWN ON LOT 12 TAG NO. 110-94-3879 HAS BEEN FIELD LOCATED BY ROBERT H. VOGEL ENGINEERING, INC.

BUILDING OF LOT 12 FLOOR AREAS:

BASEMENT FLOOR AREA: 1850

FIRST FLOOR AREA: 1700

SECOND FLOOR AREA: 2100

NUMBER OF BEDROOMS: 4

FOR GRADING PERMIT REFERENCE GP-

NO.	REVISION	DATE
1	REVISE SEPTIC SYSTEM LOT B	3/20/09

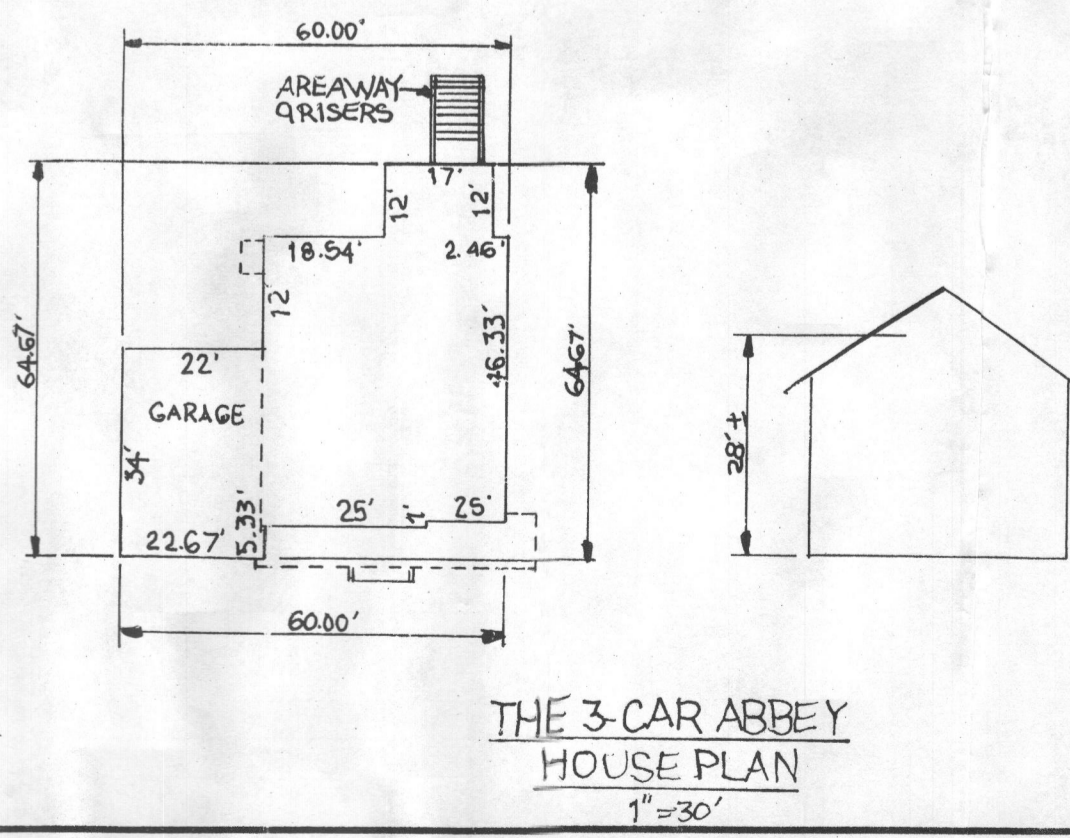
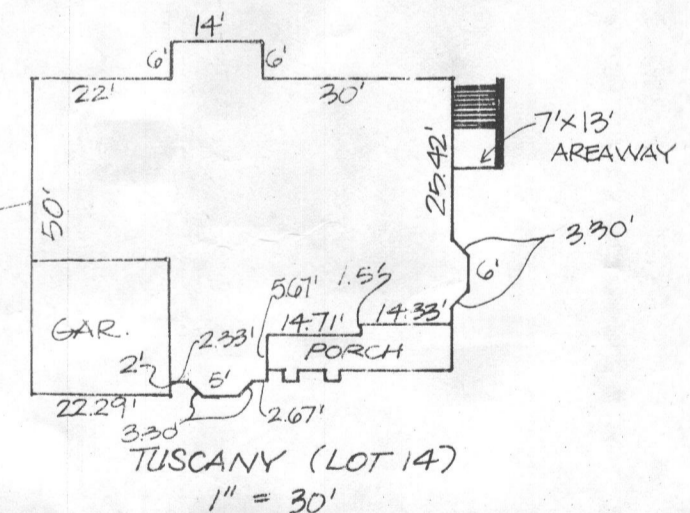
GRADING AND SEDIMENT EROSION CONTROL PLAN  
THE PRESERVE AT WAVERLY GLEN  
BUILDING PERMIT #  
LOTS 8, 11, 12, 14, and 21

REF: S-02-03, P-03-02, F-99-25, F-86-13, F-03-193

TAX MAP: 10 BLOCK: 23 PARCELS 304 & 102  
1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**ROBERT H. VOGEL ENGINEERING, INC.**  
ENGINEERS • SURVEYORS • PLANNERS  
8407 MAIN STREET ELLICOTT CITY, MD 21043 TEL: 410-461-7666 FAX: 410-461-8961

DESIGN BY: _____ RN	
DRAWN BY: _____ RN	
CHECKED BY: _____ RHV	
DATE: SEPTEMBER 2005	
SCALE: 1"=50'	
W.O. NO.: 05-01-00	1 SHEET OF 2



NOTE: SWM FOR THESE LOTS (WQV, REV & CFV) IS PROVIDED BY 3 EXISTING FACILITIES AND CREDITS APPROVED UNDER F-03-103. NO ADDITIONAL SWM REQUIRED.

<p>REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS</p> <p><i>Jim Meyer</i> 9/30/05 NATURAL RESOURCES CONSERVATION SERVICE</p> <p>THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT</p> <p><i>Shawn K. Kahan</i> 9-30-05 HOWARD SCD</p>	<p>ENGINEERS CERTIFICATE</p> <p>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.</p> <p><i>Robert H. Vogel</i> 9/15/05 ROBERT H. VOGEL, PE #16193</p>	<p>DEVELOPER'S CERTIFICATE</p> <p>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.</p> <p><i>Michael L. Pfau</i> 9/22/05 MICHAEL L. PFAU</p>
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