



# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_ AWP 535299

AGENCY REVIEW: \_\_\_\_\_ DATE 7-15-11

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH 4 PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) THOMAS SAMUEL & SISSY AMBILY

DAYTIME PHONE (301) 552-0005 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 5517 TROTTER ROAD, CLARKSVILLE, MD. 21029  
STREET CITY/TOWN STATE ZIP

APPLICANT THOMAS SAMUEL & SISSY AMBILY

DAYTIME PHONE (301) 552-0005 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 5517 TROTTER ROAD, CLARKSVILLE, MD. 21029  
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME 5517 TROTTER RD., CLARKSVILLE, MD. 21029 LOT NO. 4

PROPERTY ADDRESS CRESTWOOD MANOR  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 29 GRID 20 PARCEL(S) 88 PROPOSED LOT SIZE 1.07 ACRES <sup>EX.</sup>

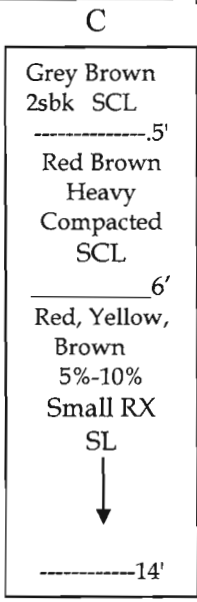
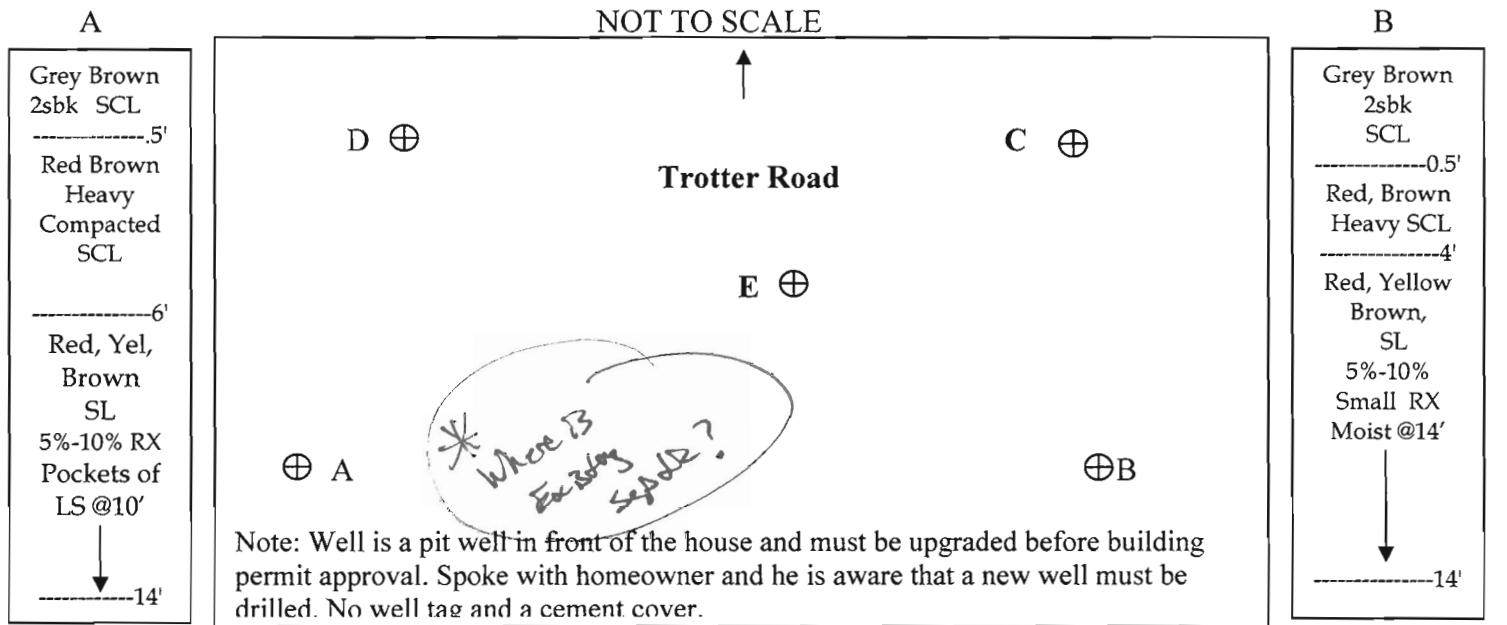
AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT.

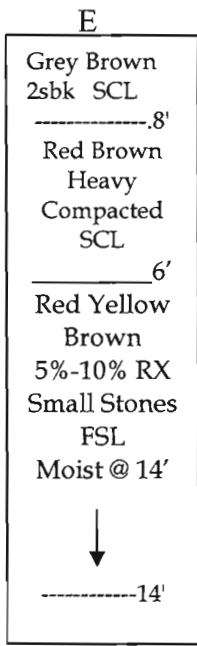
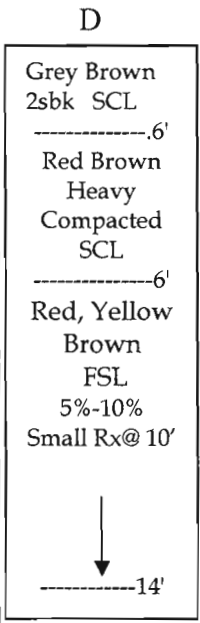
Thomas Ambily  
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM  
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648  
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

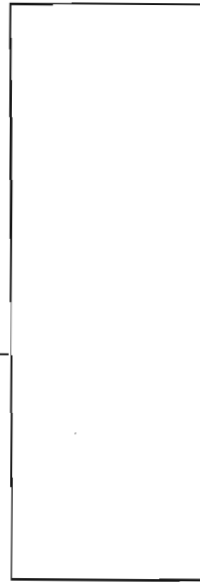
# Percolation Information- 5517 Trotter Road



Date	Test #	Depth	Start	Break 1" Drop	Break 2" Drop	Time of 2 <sup>nd</sup> Inch	P/F/H
7-26-11	A	7'/13'	11:59	11:05	12:15	10 min.	Pass
7-26-11	B	5'/13'	11:11	11:18	11:26	8 min.	Pass
7-26-11	C	6.7'/14'	11:27	11:30	11:34	4 min.	Pass
7-26-11	D	14'	Visual	Observation			Pass
7-26-11	E	6.5'/14'	11:44	11:46	11:55	3 min.	Pass



Remarks: Percolation occurred to establish easement.\_\_\_\_  
 Sanitarian\_DB\_ Backhoe\_ Jim Reece\_\_\_\_ Others\_ Homeowner\_\_\_\_  
 Test Holes Used in SDA   5   Avg. Percolation Time   6   min.    SQ.FT/BR   5    
 Trench Width    Inlet Depth    Max Bot.Depth    Effective S/W   



## MEMORANDUM


TO: Tony Fertitta, Fisher, Collins, and Carter, Inc.  
Via e-mail: [tonyf@fcc-eng.com](mailto:tonyf@fcc-eng.com)

FROM: Dana Bernard, REHS/RS  
Well and Septic Program  
Development Coordination Section

RE: 5517 Trotter Road  
Percolation Certification Plan

DATE: January 19, 2012

The following comments apply to the plan prepared by Raztec Associates, Inc. Applicant is advised to revise and resubmit percolation certification plan for further review.

- Existing septic system must be abandoned and it must be shown on the plan. The septic system components such as septic tank, dry well, and distribution box must be labeled "**To be Abandoned**".
- Existing well must be abandoned and it must be shown on the plan. The existing well is not depicted on plan. The well must match the symbol in legend and must be labeled "**To be Abandoned**". Any building permits for further development will not be approved until the old well is abandoned.
- Legend must include symbol for septic easement. Example: 
- Replacement wells shown on plan must be 50 feet apart, 10 feet from driveway and gravel turn around, and 10 feet away from property line.
- The existing house on plan must be labeled "**To Be Demolished.**"

In addition, the general notes must contain the following statements:

- Note #6 can be reworded to indicate building permit will not be issued until new well is drilled (unless the record plat has to be recorded for this project).
- Note #1 should be note for lots created before 1972.
- Note #2 can be removed.

If you have any questions or correspondence, I can be reached at the above address or by telephone at (410) 313-2775.

Sincerely,



Dana Bernard, Environmental Sanitarian  
Phone (410) 313-2775  
Fax (410) 313-2648  
E-mail: [DBernard@howardcountymd.gov](mailto:DBernard@howardcountymd.gov)

If you have any questions or correspondence, I can be reached at the above address or by telephone at (410) 313-2775.

Sincerely,

Dana Bernard, Environmental Sanitarian  
Bureau of Environmental Health,  
Well and Septic Program  
Phone (410) 313-2775  
Fax (410) 313-2648  
E-mail: [DBernard@howardcountymd.gov](mailto:DBernard@howardcountymd.gov)



**FISHER, COLLINS  
& CARTER, INC.**

**CIVIL ENGINEERING CONSULTANTS  
and LAND SURVEYORS**

Terrell A. Fisher, P.E., L.S.  
Earl D. Collins, P.E.  
Charles J. Crovo, Sr., P.E., L.S.

Paul W. Kriebel, P.E.  
Mark L. Robel, P.L.S.  
Aldo M. Vitucci, P.E.

# Transmittal

Via:  Fax  Mail  Messenger  E-Mail  To Be Picked Up  
 Fax (original to follow via U.S. Mail)

To: <b>Bureau of Environmental Health</b> <b>7178 Columbia Gateway Dr.</b> <b>Columbia, MD 21046-4544</b>	Attn: <b>Dana</b> Fax: <b>(410) 313-2648</b> Phone: <b>(410) 313-2640</b>
---	---

From: <b>Tony Fertitta</b>	CC:
----------------------------	-----

Re: <b>5517 Trotter Road</b>	W.O.# <b>11058</b>
Date: <b>January 9, 2012</b>	Pages: <b>3 Page(s) Including this cover</b>

We are forwarding:	<input checked="" type="checkbox"/> Prints	<input type="checkbox"/> Copy of Letter	<input type="checkbox"/> Specifications	<input type="checkbox"/> Shop drawings	<input type="checkbox"/> Other
	<input type="checkbox"/> Urgent	<input type="checkbox"/> For your use	<input type="checkbox"/> As requested	<input type="checkbox"/> For Review & Comment	

Remarks:

**Dana:**

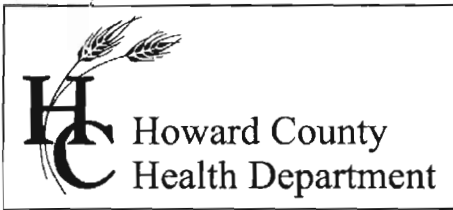
**Enclosed please find original mylar and Two (2) prints of the drawing entitled " Percolation Certification Plat- 5517 Trotter Road " dated January 9, 2012.**

**If we may be of any further assistance, please do not hesitate to call.**

**Very truly yours,**

### CONFIDENTIALITY NOTICE

This transmission contains confidential information which may be legally privileged, and is intended only for the use of the individual named above. If you are not the intended recipient, you are hereby notified that any distribution ( except to the intended recipient ), copying, or disclosure of this transmission is strictly prohibited.



7178 Columbia Gateway Drive, Columbia MD 21046  
Phone (410) 313-2640 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
Website: [www.hchealth.org](http://www.hchealth.org)  
Peter L. Beilenson, M.D., M.P.H., Health Officer

## MEMORANDUM


TO: Raztec Associates, Inc.  
Via e-mail: raztecengr@comcast.net

FROM: Dana Bernard, REHS/RS *DB*  
Well and Septic Program  
Development Coordination Section

RE: 5517 Trotter Road  
Percolation Certification Plan

DATE: September 20, 2011

The following comments apply to the plan prepared by Raztec Associates, Inc. Applicant is advised to revise and resubmit percolation certification plan for further review.

- Existing septic system must be abandoned and it must be shown on the plan. The septic system components such as septic tank, dry well, and distribution box must be labeled "**To be Abandoned**".
- Existing well must be abandoned and it must be shown on the plan. The existing well is not depicted on plan. The well must match the symbol in legend and must be labeled "**To be Abandoned**". Example of proposed well symbol : ●  
Example of existing well symbol: ⊗  
Any building permits for further development will not be approved until the old well is abandoned.
- Legend must include symbol for septic easement. Example: 
- Percolation holes must be labeled with numbers on plan and a symbol must be shown in the legend without a number shown next to it.  
Example of a percolation hole symbol: ⊕
- Show wells and septic systems on adjacent properties.

In addition, the general notes must contain the following statements:

- All known wells and/or septic easements located within 100 feet of the property have been shown. And all known wells down gradient from the septic easement are located within 200 feet of the property. (Note this statement must be supported by fact.) The plan presented does not show all wells and septic systems adjacent to the property.
- The MDE statement must show the correct symbol for the septic easement.

# HP Color LaserJet 2840



HOWARD\*COUNTY HEALTH DPT  
4103136303  
Sep-8-2011 9:12AM

## Fax Call Report

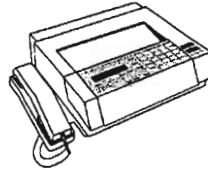
Job	Date	Time	Type	Identification	Duration	Pages	Result
2936	9/ 8/2011	9:11:01AM	Send	914108750326	1:48	2	OK



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

Peter L. Bellenson, M.D., M.P.H., Health Officer

F A X



Date 9-8-11

To South Carroll Backhoe

Department \_\_\_\_\_

FAX # (410) 875-0326

From Dana Bernard

Telephone (410) 313-2775 FAX (410) 313-2648

# Of Pages 2 (including cover page)

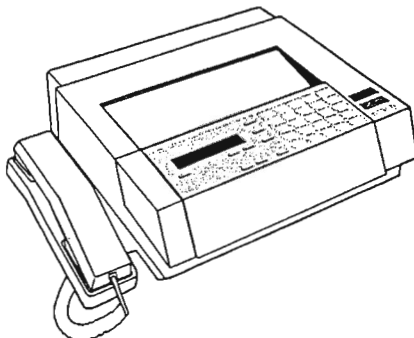
Comments \_\_\_\_\_

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

**F A X**



Date 9-8-11

To South Carroll Backhol

Department \_\_\_\_\_

FAX # (410) 875-0326

---

From Dana Bernard

Telephone (410) 313-2775 FAX (410) 313-2648

# Of Pages 2 (including cover page)

Comments \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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South Carroll Backhoe

Fax # 410-875-0326

RE: 5517 Trotter Rd

Samuel Property

---

Henny from 8-29-11

South Carroll would

like a rough draft  
of Septic Specs

4 5517 Trotter Road

---

# **RAZTEC ASSOCIATES, INC**

Civil Engineers

Land Planners

## TRANSMITTAL

Date: September 6, 2011

TO: Howard County Health Department

**ADDRESS:**

Columbia Gateway Drive  
Columbia, MD.

ATTENTION: Dana Bernard  
Delivery: By Hand

RE: 5517 Trotter lane, Thomas Residence

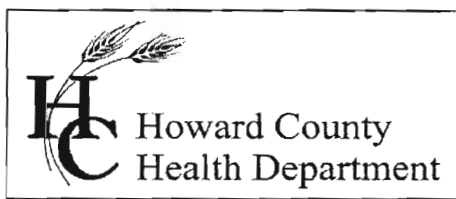
**Enclosed please find the following:**

**3 Copies of Percolation Certification Plat**

Please call should you have any questions or require any further information, please call me at 301-775-4394.

Thank You

Mike Razavi, P.E.



Bureau of Environmental Health  
7178 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](http://www.hchealth.org)

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

August 1, 2011

RE: **Percolation Test Results**

Purpose: To Establish Septic Reserved Area

Property ID: 5517 Trotter Road, Clarksville, Maryland 21029

TO: Mr. Thomas Samuel  
5517 Trotter Road  
Clarksville, Maryland 21029

Dear Mr. Samuel:

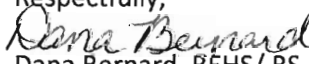
Percolation testing was recently conducted on July 26, 2011 on the above referenced property, in an effort to establish a septic reserve area.

All percolation tests conducted were standard tests, measuring rate of fall for a pre-wet period followed by measurement and recordation of the time required for the water level to drop 1 inch. Soil conditions either satisfactory or unsatisfactory for onsite wastewater disposal were observed at the specified test locations. Areas that may be included in a septic reserve are represented by test locations having satisfactory soil conditions. The area of the septic reserve must be at least 10,000 square feet, though Howard County Code [3.805.A.2.X] requires that the area be large enough to accommodate an initial drain field and two repair drain fields for the planned residence.

A total of 5 test holes were dug in the proposed septic reserve area. Results indicate satisfactory soil conditions for onsite wastewater disposal. Field data collected are shown on Percolation Test Worksheets enclosed with this letter. Recommended Inlet and Trench Bottom depths, and Usable Sidewall all are based on observed soil properties and characteristics at respective test locations as well as the particular soils materials tested. The values for the drain field parameters will be documented during the Percolation Certification Plan process, and then maintained in the Health Department file for the subject property.

Additional field review of well or septic system conditions may be required at any time during this process. If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan or Site Plan, please contact me at the above address or by calling (410) 313-2775.

The next step in this process is to have your engineer/consultant submit a Percolation Certification Plan to confirm the design of the septic reserve area. If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan, please contact me at the above address or by telephone at (410) 313-2775.

Respectfully,  
  
Dana Bernard, REHS/RS  
Bureau of Environmental Health  
Well and Septic Program  
Development and Coordination Section  
Phone (410) 313-2775  
E-mail: [DBernard@howardcountymd.gov](mailto:DBernard@howardcountymd.gov)

DLB

Enclosures

cc: Well & Septic Program

R Aztech Associates, Inc., via e-mail: [raztecengr@comcast.net](mailto:raztecengr@comcast.net)

## **Wolf, Kevin**

---

**From:** Wolf, Kevin  
**Sent:** Tuesday, June 14, 2011 9:55 AM  
**To:** 'biju20770@yahoo.com'  
**Subject:** Demo request 5517 Trotter Road

Thomas,

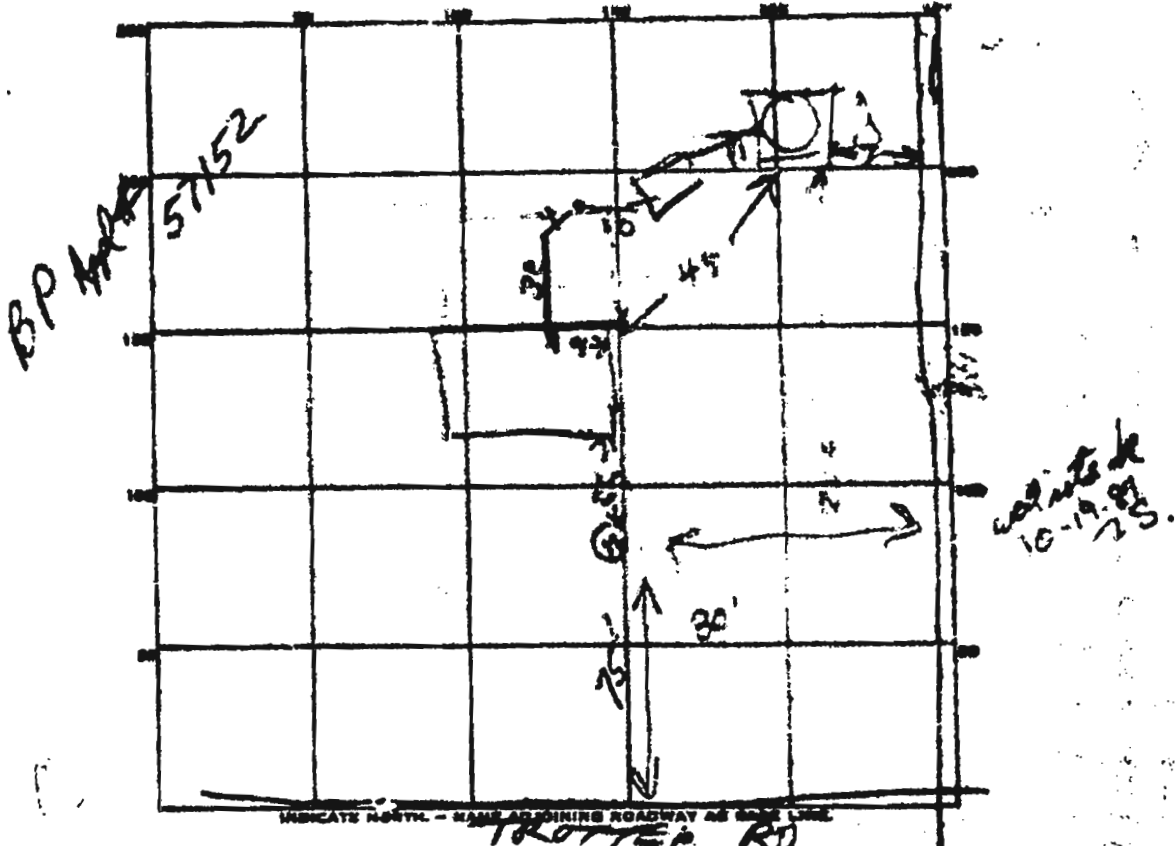
I called your contractor the other day about perc testing in Howard County. He had some questions concerning the process. I did not get a hold of him per-say, but I did leave him a detailed message on his voice mail.

The demo request for the property will need to remain on hold due to the age of the system at hand and current code. Please refer to Howard County Code sec 3.805 Percolation Certification (Perc Cert) Requirements on our website ([www.hchealth.org](http://www.hchealth.org)) for more information on your current situation. Basically, you will need to develop a Perc Cert plan to bring your property up to current code. This will start with a perc application which will need to be filled out and fee's paid in full to the Health Department and a scheduled perc test will follow. This will get things moving once the perc's are complete, and we have defined your septic reserve area.

Thanks,

Kevin M. Wolf, R.E.H.S./R.S.  
Howard County Health Department  
Bureau of Environmental Health  
Well & Septic Program  
Groundwater Mgmt. Sec.  
7178 Columbia Gateway Dr.  
Columbia, MD 21046

(o) 410-313-2645  
(f) 410-313-2648



PERMIT CARD \_\_\_\_\_

SEPTIC TANK, LEVEL OK 1000 704 CLEANOUTS OK/DK  
1 FT 806

DISTRIBUTION BOX, LEVEL \_\_\_\_\_

TILE FIELD, DEPTH \_\_\_\_\_ FT. TRENCH WIDTH \_\_\_\_\_ FT.

GRAVEL DEPTH \_\_\_\_\_ IN. TOTAL LENGTH \_\_\_\_\_ FT.

NUMBER OF TRENCHES 56 TOTAL BOTTOM AREA \_\_\_\_\_

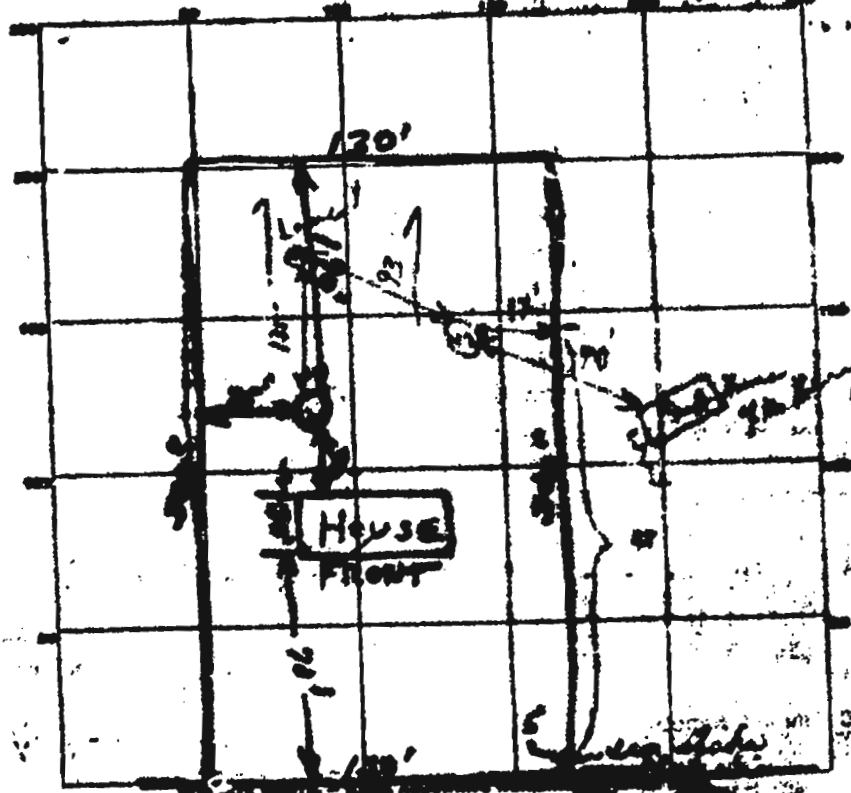
SEEPAGE PYS, INSIDE DIAMETER DEPT 10 47 FT. DEPTH BELOW INLET 11 FT.

ABSORBENT AREA 494 SQ. FT.

REMARKS 4/27/84 - DW INLET 2 FT BELOW GRADE  
DRY WELL HOLE DUG & SOME PIPE INSTALLED  
FINISH DW & SET TANK & CALL OK TO COVER  
HOUSE SEWER RH  
5/16/84 - TANK & DW OK

DATE SYSTEM APPROVED 5/16/84 INSPECTOR Raymond Judge

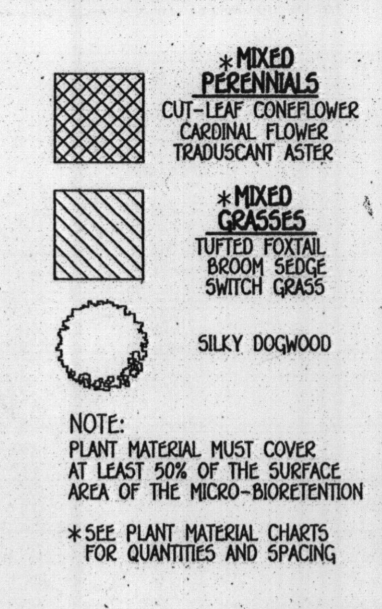
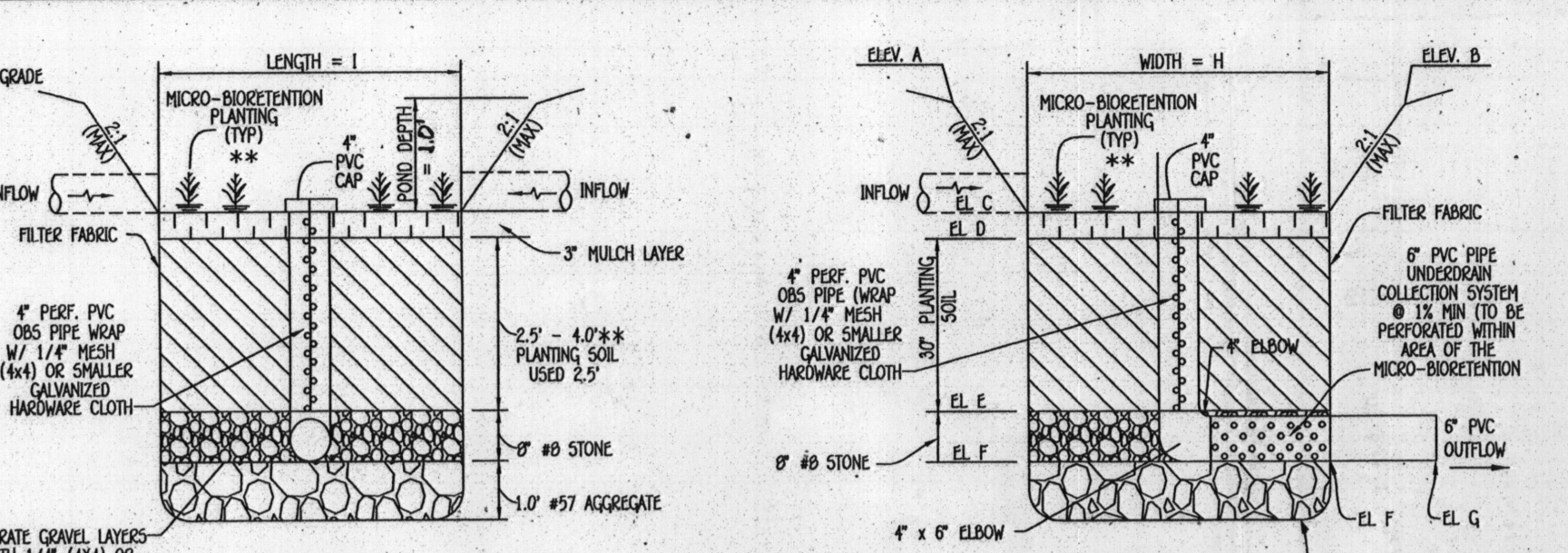
A' 02245



**TEST LOG**

DATE	TEST NO.	DEPTH	START	STOP	REMARKS
3-20-60	V3	12'	11:23	11:31	
4-2 clay 12/24/20	V1	14'	2'-14'		Sandy loam
0-1 1/2 clay	V2	13-10"	11:20-13:00		Hardy loam
	V3				(shallow of 3/23/60 test)
					Note in rear of original hole in old foundation gashed over located this date. Recommend use V2 hole for a dry well.
120 depth } perched water					

SOIL AUGER FINDING \_\_\_\_\_  
 TESTED BY J. Henry  
 REMARKS \_\_\_\_\_  
 ALSO PRESENT 3-23-60 Mr. V. Chapp  
 used to read letter  
 stating lot is buildable  
 (has been over 11/2)



STORMWATER MANAGEMENT PRACTICES																
LOT NO.	ADDRESS	GREEN ROOF A-1 (Y/N)	PERMEABLE PAVING A-2 (Y/N)	REINFORCED TURF A-3 (Y/N)	DISCONNECTION OF ROOFTOP RUNOFF N-1 (Y/N)	DISCONNECTION OF NON-ROOFTOP RUNOFF N-2 (Y/N)	SHEET FLOW TO CONSERVATION AREAS N-3 (Y/N)	RAINFALL HARVESTING M-1 (NUMBER)	SUBMERGED GRAVEL WETLANDS M-2 (NUMBER)	LANDSCAPE INFILTRATION M-3 (NUMBER)	INFILTRATION BERM M-4 (NUMBER)	DRY WELLS M-5 (NUMBER)	BIO-RETENTION M-6 (NUMBER)	RAIN GARDENS M-7 (NUMBER)	SWALES M-8 (NUMBER)	ENHANCED FILTER M-9 (NUMBER)
4	5517 TROTTER ROAD				4								1			

MICRO-BIORETENTION											
BIORETENTION FILTER	A	B	C	D	E	F	G	H	I	J	
1	446.00	446.00	445.00	444.95	442.25	441.50	441.00	10'	26'	440.30	

SOILS LEGEND		
SOIL	NAME	CLASS
GbB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	B

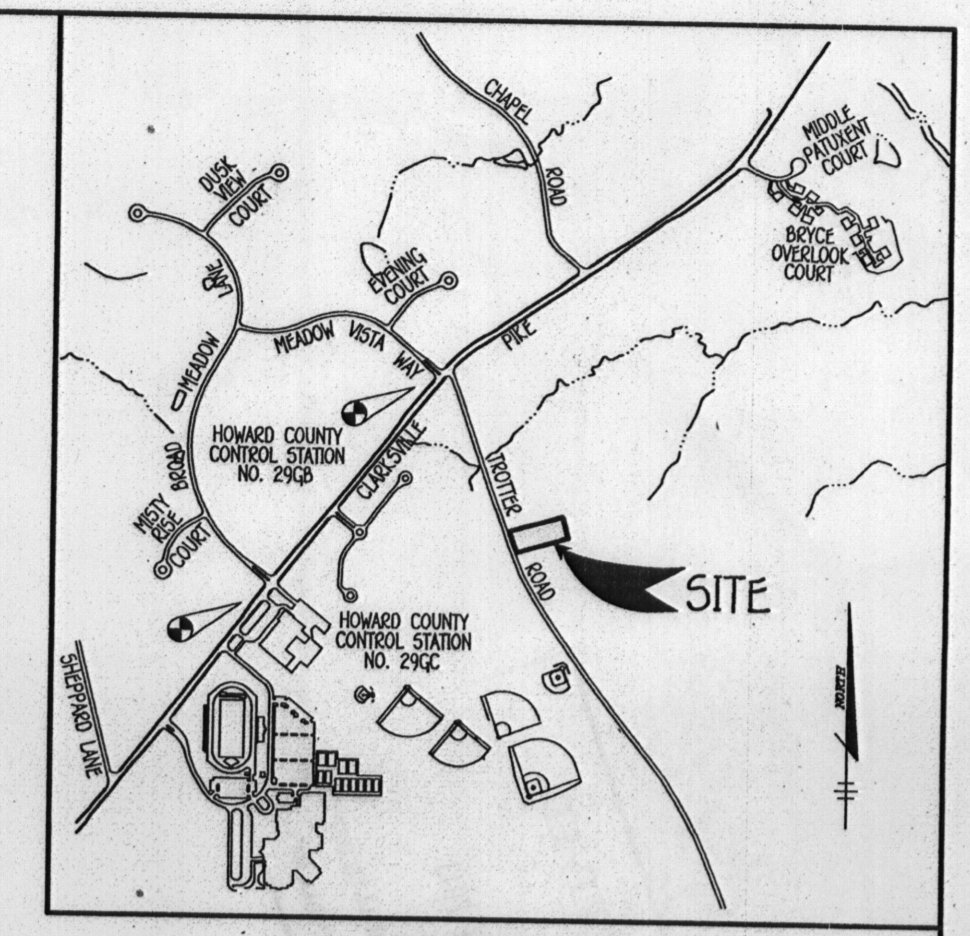
**SITE ANALYSIS DATA CHART**

A. TOTAL PROJECT AREA: 1.0712 ACRES OR 46,661 SQUARE FEET.  
 B. AREA OF SUBMISSION: 1.0712 ACRES OR 46,661 SQUARE FEET.  
 C. LIMITS OF DISTURBANCE: 0.63 ACRES OR 27,443 SQUARE FEET.  
 D. PRESENT ZONING DESIGNATION: R-20  
 E. PROPOSED USES FOR SITE: RESIDENTIAL  
 F. APPLICABLE DPZ FILE REFERENCES: BOOK NO. RHM 6, PAGE 49, ECP 12-017

**BENCH MARKS**

T.P. 29GB ELEV. 455.965  
 N. 566,826.1708  
 E. 1,333,265.8543  
 LOC. NEAR THE INTERSECTION OF MEADOW VISTA RD. & CLARKSVILLE PIKE

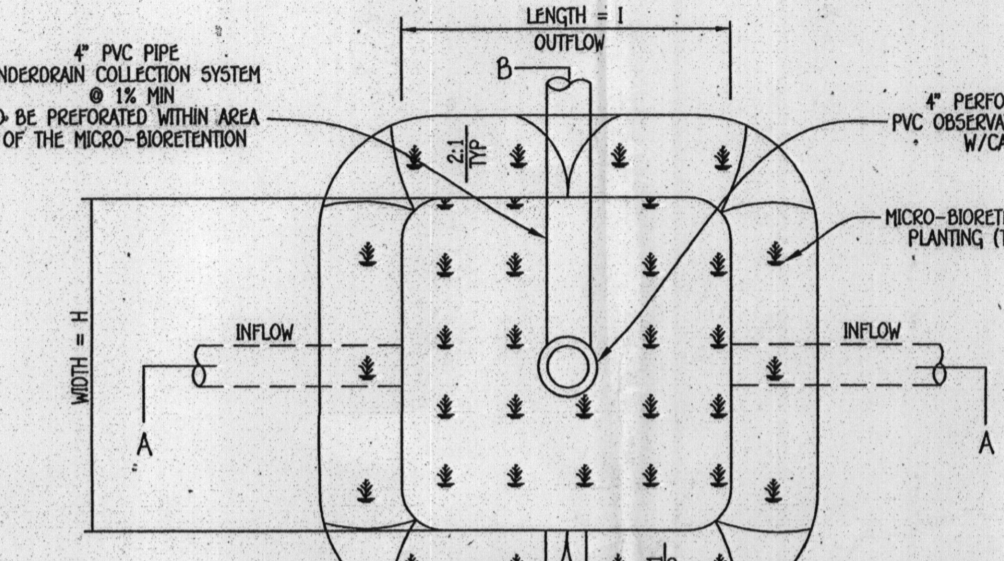
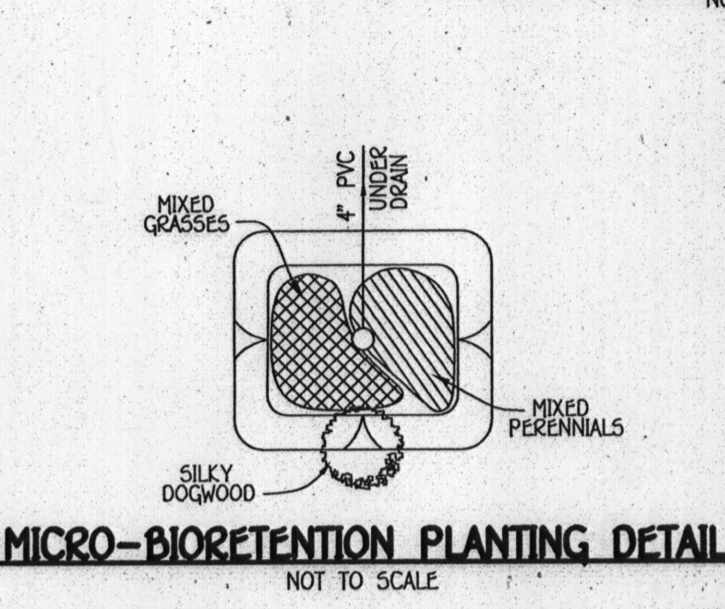
T.P. 29GC ELEV. 490.718  
 N. 565,530.8138  
 E. 1,332,248.7022  
 LOC. NEAR THE INTERSECTION OF BROAD MEADOW LANE & CLARKSVILLE PIKE



**OPERATION & MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6)**

- THE OWNER SHALL MAINTAIN THE PLANT MATERIAL MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUME 3, TABLE A-1.1 AND 2.
- THE OWNER SHALL PERFORM A PLANT IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT; REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL; TREAT DISEASED TREES AND SHRUBS AND REPLACE ALL DEFICIENT STAKES AND WIRES.
- THE OWNER SHALL INSPECT THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED.
- THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.

**MICRO-BIORETENTION PLANTING DETAIL**

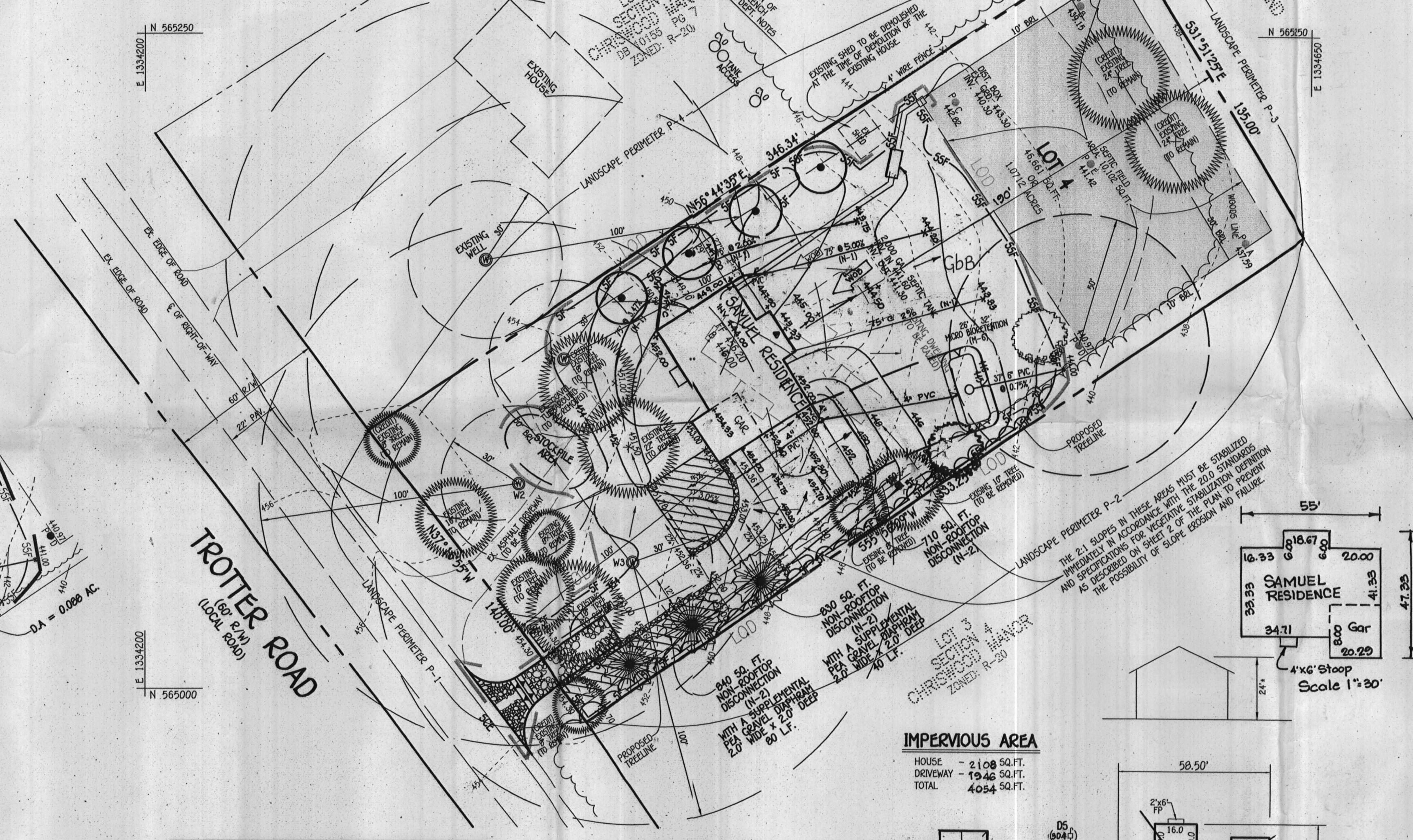


**LEGEND**

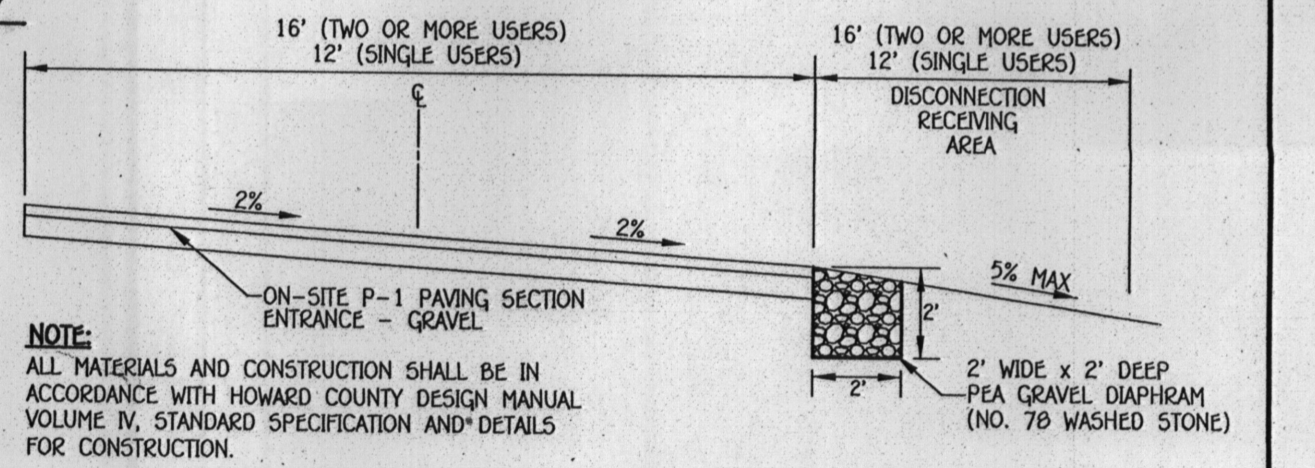
SYMBOL	DESCRIPTION
(Symbol)	EXISTING 2' CONTOURS
(Symbol)	EXISTING 10' CONTOURS
(Symbol)	PROPOSED CONTOURS
(Symbol)	SPOT ELEVATION
(Symbol)	SILT FENCE
(Symbol)	EXISTING TREE LINE
(Symbol)	PROPOSED TREE LINE
(Symbol)	SHEET FLOW (5% MAX.)
(Symbol)	DISCONNECTED IMPERVIOUS AREA
(Symbol)	DISCONNECTED RECEIVING AREA
(Symbol)	SOIL LINES AND TYPES
(Symbol)	PROPOSED WELL
(Symbol)	PROPOSED PERC
(Symbol)	PROPOSED PERC
(Symbol)	LIMIT OF DISTURBANCE
(Symbol)	EXISTING TREES

**MICRO-BIORETENTION PLANT MATERIAL**

QUANTITY	NAME	MAXIMUM SPACING (FT.)
45	MIXED PERENNIALS	1 FT.
45	MIXED GRASSES	1 FT.
1	SILT DOGWOOD	PLANT MAIN FROM INFLOW LOCATION



- GENERAL NOTES**
- SUBJECT PROPERTY ZONED R-20 PER THE 2/2/04 COMPREHENSIVE ZONING PLAN AND THE LITE ZONING REGULATORY AMENDMENTS EFFECTIVE ON 7/28/06.
  - TOTAL NUMBER OF LOTS SUBMITTED: 1 SFD
  - COORDINATES BASED ON NAD '83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 29GB AND NO. 29GC
  - PREVIOUS FILE NUMBERS FOR REFERENCE: ECP 12-017, PLAT BOOK NO. RHM 6, PAGE 49.
  - TOPOGRAPHIC AND BOUNDARY SURVEY COMPLETED BY BAZZIC ASSOCIATES, INC., IN MAY, 2011.
  - HORIZONTAL AND VERTICAL CONTROL DATUM IS BASED ON NAD '83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS. HOWARD COUNTY MONUMENT 29GB N 566,826.1708 E 1,333,265.8543 ELEV. 455.965 HOWARD COUNTY MONUMENT 29GC N 565,530.8138 E 1,332,248.7022 ELEV. 490.718
  - DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING (MINIMUM) REQUIREMENTS:
    - WIDTH - 12' (16' SERVING MORE THAN ONE RESIDENCE)
    - SURFACE - 8" OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MIN. (125-LOADING)
    - GEOMETRY MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 45 FOOT TURNING RADIUS.
    - STRUCTURES (BRIDGES/CULVERTS) CAPABLE OF SUPPORTING 25 GROSS TONS
    - DRAINAGE ELEMENTS CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.
    - STRUCTURE CLEARANCES - MINIMUM 12 FEET
    - MAINTENANCE SUFFICIENT TO INSURE ALL WEATHER USE.
  - THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
  - ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
  - FOR DRIVEWAY ENTRANCE DETAILS REFER TO HO. CO. DESIGN MANUAL VOL. IV DETAILS R.6.06.
  - SITE ANALYSIS DATA:
    - TOTAL PROJECT AREA 1.0712 AC. ± OR 46,661 SQUARE FEET ±.
    - TOTAL AREA OF IMPERVIOUS SURFACE PROPOSED: 0.110 AC. OR 4,792 SQUARE FEET.
    - THIS PROJECT IS EXEMPT FROM FOREST CONSERVATION PER SECTION 16.1202 (b)(2)(i)(a) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS BECAUSE THE TOTAL CUTTING, CLEARING OR GRADING OF FOREST RESOURCES IS LESS THAN 20,000 SQ. FT. AS SUCH, THE DEVELOPER WILL BE REQUIRED TO SUBMIT A "DECLARATION OF INTENT FOR A SINGLE RESIDENTIAL LOT EXEMPTION CLEARING LESS THAN 20,000 SQ. FT. OF FOREST" PRIOR TO THE APPROVAL OF THIS SDP.
    - STORMWATER MANAGEMENT REQUIREMENTS FOR THIS SITE WILL BE MET USING ENVIRONMENTAL SITE DESIGN TO THE MAXIMUM EXTENT POSSIBLE IN ACCORDANCE WITH THE MARYLAND STORMWATER DESIGN MANUAL VOLUMES 1 & 2, EFFECTIVE MAY, 2010. PROPOSED PRACTICES WILL BE LOCATED ON LOT 4, AS FOLLOWS:
      - STORMWATER MANAGEMENT WILL BE MET BY USING ROOFTOP DISCONNECTIONS (N-1) AND MICRO-BIORETENTION (M-6) FOR THE PROPOSED HOUSE AND NON-ROOFTOP DISCONNECTION (N-2) FOR THE PROPOSED DRIVEWAY. THESE PRACTICES WILL PROVIDE THE REQUIRED ESD VOLUMES AND SHALL BE PRIVATELY OWNED AND MAINTAINED IN ACCORDANCE WITH AN INDIVIDUAL DECLARATION OF COVENANTS.
      - IN ACCORDANCE WITH SECTION 12B OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS OPEN OR ENCLOSED, MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACKS.
      - THERE ARE NO STREAMS, WETLANDS, OR THEIR BUFFERS, 100 YEAR FLOODPLAIN, STEEP SLOPES OR FOREST CONSERVATION EASEMENTS EXIST ON-SITE.
      - THERE ARE NO CONSERVED ON-SITE.
      - TOTAL LANDSCAPE SURETY FOR 9 SHADE TREES @ \$100.00 EACH = \$2700.00 WILL BE PROVIDED WITH THE SITE DEVELOPMENT PLAN DEVELOPER'S AGREEMENT.



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,  
 HOWARD COUNTY HEALTH DEPARTMENT.

*Bridget Maura Rosman* 11/8/2012  
 COUNTY HEALTH OFFICER DATE

**ADDRESS CHART**

LOT NUMBER	STREET ADDRESS
4	5517 TROTTER ROAD

**PROFESSIONAL CERTIFICATION**

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 47571, EXPIRATION DATE: 2/3/14

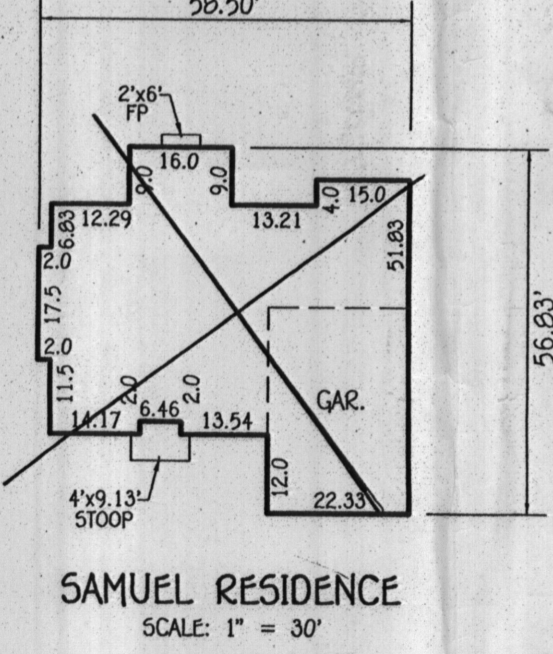
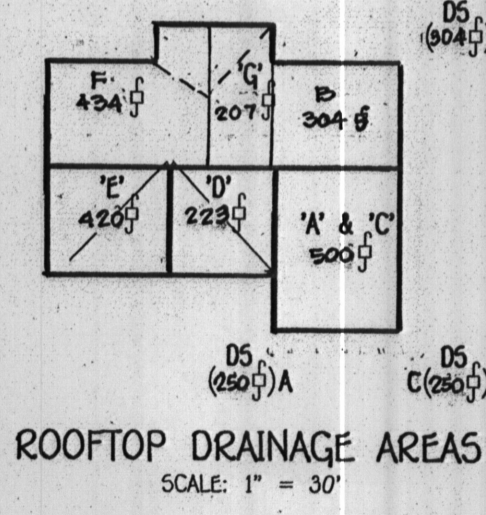
*Terrell A. Fraker* 8/30/12  
 DATE

**INDEX CHART**

SHEET	DESCRIPTION
SHEET 1	SITE/SEDIMENT, EROSION CONTROL PLAN, LOT 4
SHEET 2	SEDIMENT/EROSION NOTES & DETAILS LOT 4

**IMPERVIOUS AREA**

HOUSE - 2108 SQ.FT.  
 DRIVEWAY - 1946 SQ.FT.  
 TOTAL - 4054 SQ.FT.



**REVISIONS**

NO.	REVISION	DATE
1	Rev hsc type 1 qrd	3/1/13

**ENGINEER'S CERTIFICATE**

"I certify that this plan for erosion and sediment 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."

*Terrell A. Fraker* 8/30/12  
 Signature of Engineer DATE

**BUILDER/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 any 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."

*Thomas Samuel* 9/15/12  
 Signature of Developer DATE

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

*John C. Krouton* 9/27/12  
 Howard SCD

**OWNER/DEVELOPER**

THOMAS SAMUEL  
 5517 TROTTER ROAD  
 CLARKSVILLE, MARYLAND 21029  
 301-552-0009

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Katrina...* 11/20/12  
 Chief, Division of Land Development

*...* 10/2/12  
 Chief, Development Engineering Division

*Paul A....* 11/6/12  
 Director - Department of Planning and Zoning

PROJECT	SECTION	LOT NO.
CRISWOOD MANOR	4	4

PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
RHM 6 PG 49	0020	R-20	0029	FIFTH	6068.02

WATER CODE: N/A SEWER CODE: N/A

**SITE DEVELOPMENT & SEDIMENT/EROSION CONTROL PLAN**

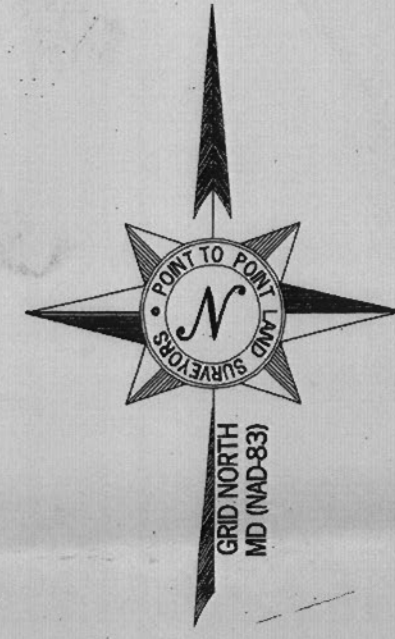
5517 TROTTER ROAD  
 CRISWOOD MANOR  
 SECTION 4  
 LOT 4

TAX MAP NO.: 0029 PARCEL NO.: 0088 GRID NO.: 0020  
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 30' DATE: AUGUST, 2012

SHEET 1 OF 2

SDP 12-068

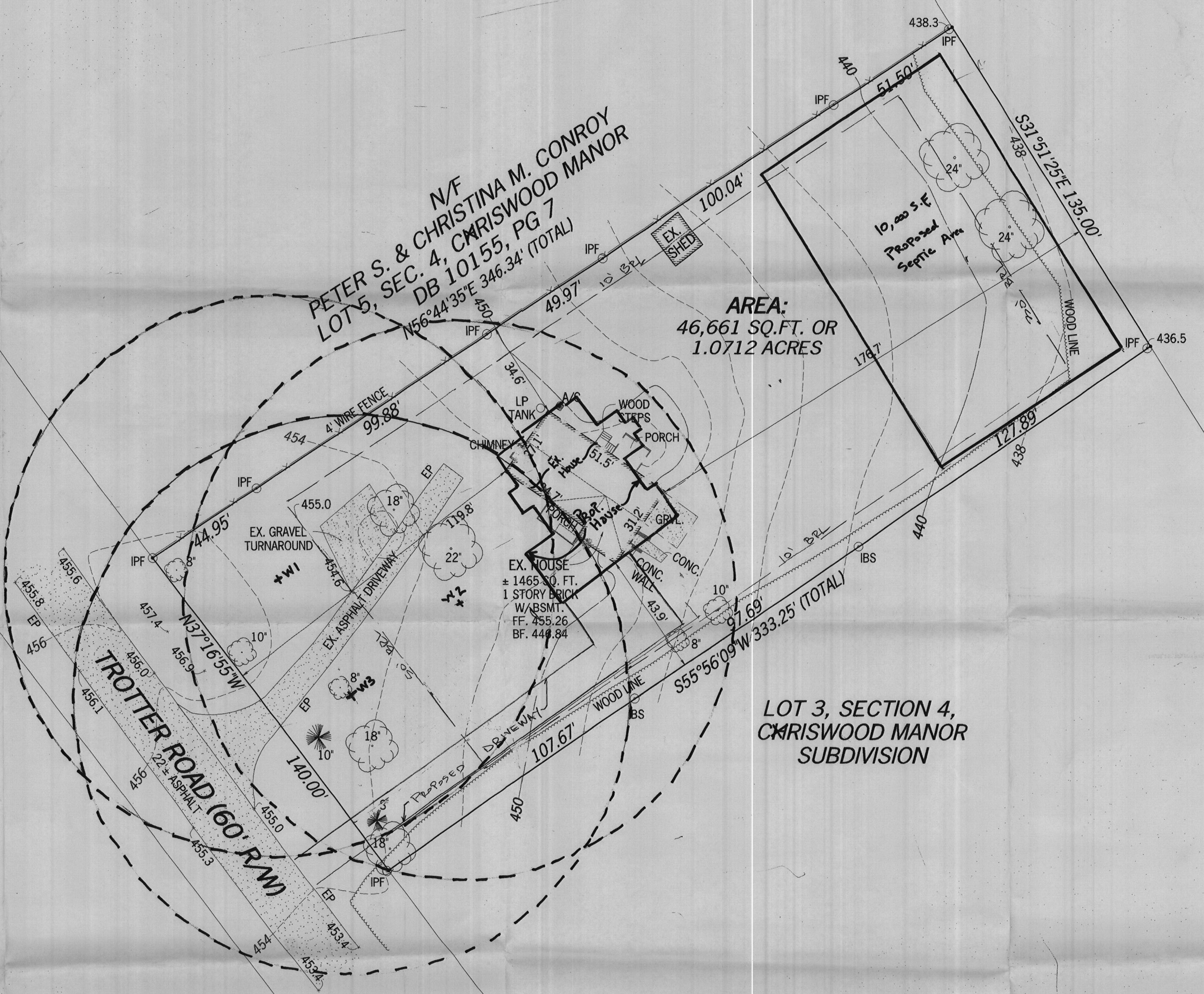




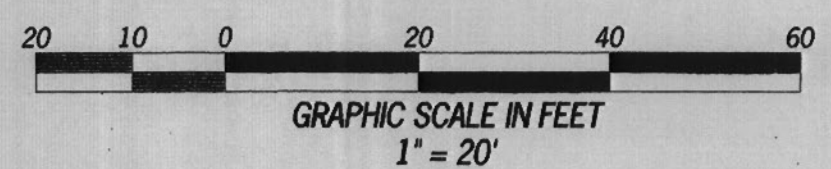
N/F  
 PETER S. & CHRISTINA M. CONROY  
 LOT 5, SEC. 4, CHRISWOOD MANOR  
 DB 10155, PG 7  
 N56°44'35"E 346.34' (TOTAL)

AREA:  
 46,661 SQ.FT. OR  
 1.0712 ACRES

LOT 3, SECTION 4,  
 CHRISWOOD MANOR  
 SUBDIVISION



CONTRACTOR IS TO CALL MISS UTILITY FOR MARKING OF UTILITY LINES AT 1-800-257-7777, AT LEAST 48 HOURS PRIOR TO START OF TESTING.



PROFESSIONAL CERTIFICATION:  
 "I certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, license no. 22742, expiration date: June 15, 2012."

REV#	DATE

PERCOLATION TEST PLAN

**P**ATTEC ASSOCIATES, INC.



DATE:  
 SCALE:



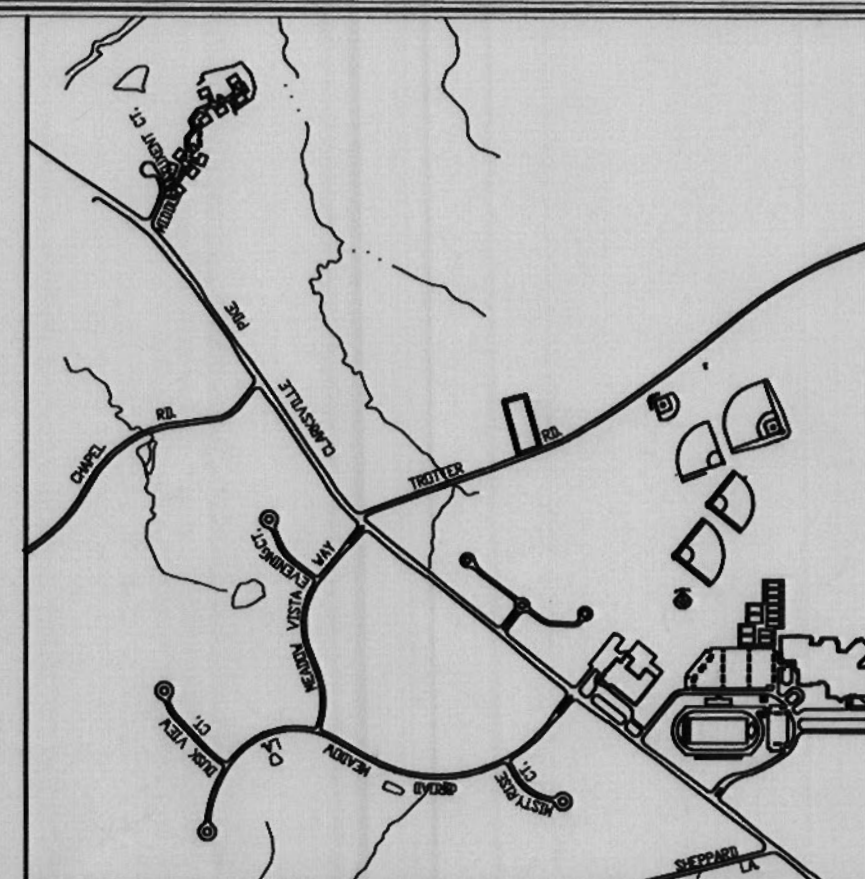
**LEGEND**

- EXISTING 2' CONTOURS
- - - EXISTING 10' CONTOURS
- ~ ~ ~ EXISTING TREE LINE
- GLB2  
MLC2 SOIL LINES AND TYPES
- ⊙ DENOTES PROPOSED WELL
- P DENOTES PASSED PERC
- ⊠ DENOTES PROPOSED HOUSE

**SOILS LEGEND**

SOIL	NAME	CLASS
GbB	Gladstone loam, 3 to 8 percent slopes	B

- NOTES:**
- Hydric soils and/or contains hydric inclusions
  - \*\* May contain hydric inclusions
  - † Generally only within 100-year floodplain areas



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

**GENERAL NOTES:**

1. THIS AREA DESIGNATES A PRIVATE SEWAGE AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. FOR LOTS CREATED PRIOR TO MARCH OF 1972 IT PROVIDES AT LEAST ENOUGH AREA TO ACCOMMODATE AN INITIAL AND TWO REPLACEMENT SEPTIC SYSTEMS AS REQUIRED BY THE HOWARD COUNTY HEALTH DEPARTMENT. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
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9. DEED REFERENCE LIBER 12539 FOLIO 403.
10. EXISTING WELL AND SEPTIC ON 5517 TROTTER ROAD WILL BE ABANDONED AT TIME OF NEW INSTALL.
11. THE LOCATION OF THE EXISTING SEPTIC SYSTEM IS UNKNOWN. IT SHALL BE LOCATED AND PROPERLY ABANDONED AT THE TIME OF NEW SYSTEM INSTALLATION. IF IT IS FOUND TO BE LOCATED WITHIN THE NEWLY CREATED 10,000 SQUARE FOOT SEPTIC DISPOSAL AREA, THE HEALTH DEPARTMENT MAY REQUIRE THAT AREA TO BE REVISED.

see As built  
5/25/00

I certify that the locations shown hereon are the locations done under my direct supervision and are correct to the best of my knowledge and belief.

Signature of Professional Land Surveyor: *Terrell A. Fisher*  
 Terrell A. Fisher, Professional Land Surveyor, License No. 11608 Expires 12/13/13  
 Date: 1/26/12

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,  
 HOWARD COUNTY HEALTH DEPARTMENT.

Signature for Peter Beilenson  
 COUNTY HEALTH OFFICER  
 DATE: 2/6/2012

**PERC CERTIFICATION PLAT**  
**5517 TROTTER ROAD**

TAX MAP \*29 ZONED: R-20 PARCEL: 08  
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1"=30' DATE: JANUARY 26, 2012

**OWNER/DEVELOPER**

Samuel Thomas  
 5517 TROTTER ROAD  
 CLARKSVILLE, MD

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461 - 2955

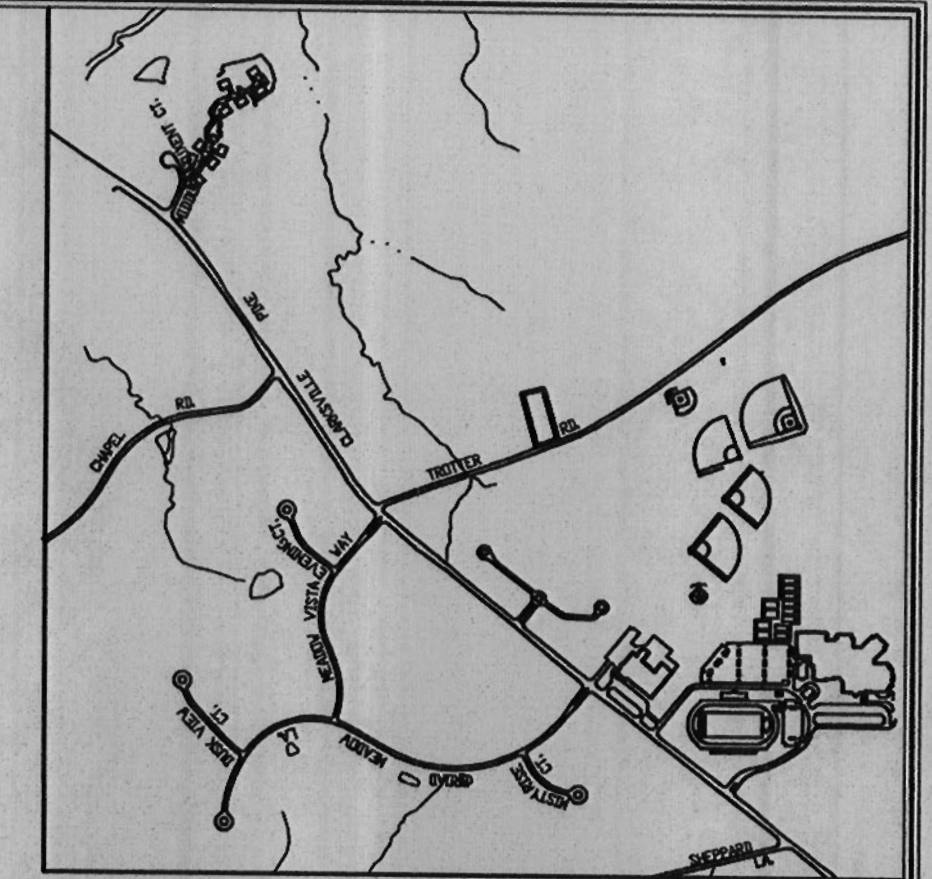
**LEGEND**

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- - - EXISTING 10' CONTOURS
- EXISTING TREE LINE
- GLB2  
MLC2 SOIL LINES AND TYPES
- ⊙ DENOTES PROPOSED WELL
- P DENOTES PASSED PERC
- ⊠ DENOTES PROPOSED HOUSE

**SOILS LEGEND**

SOIL	NAME	CLASS
GbB	Gladstone loam, 3 to 8 percent slopes	B

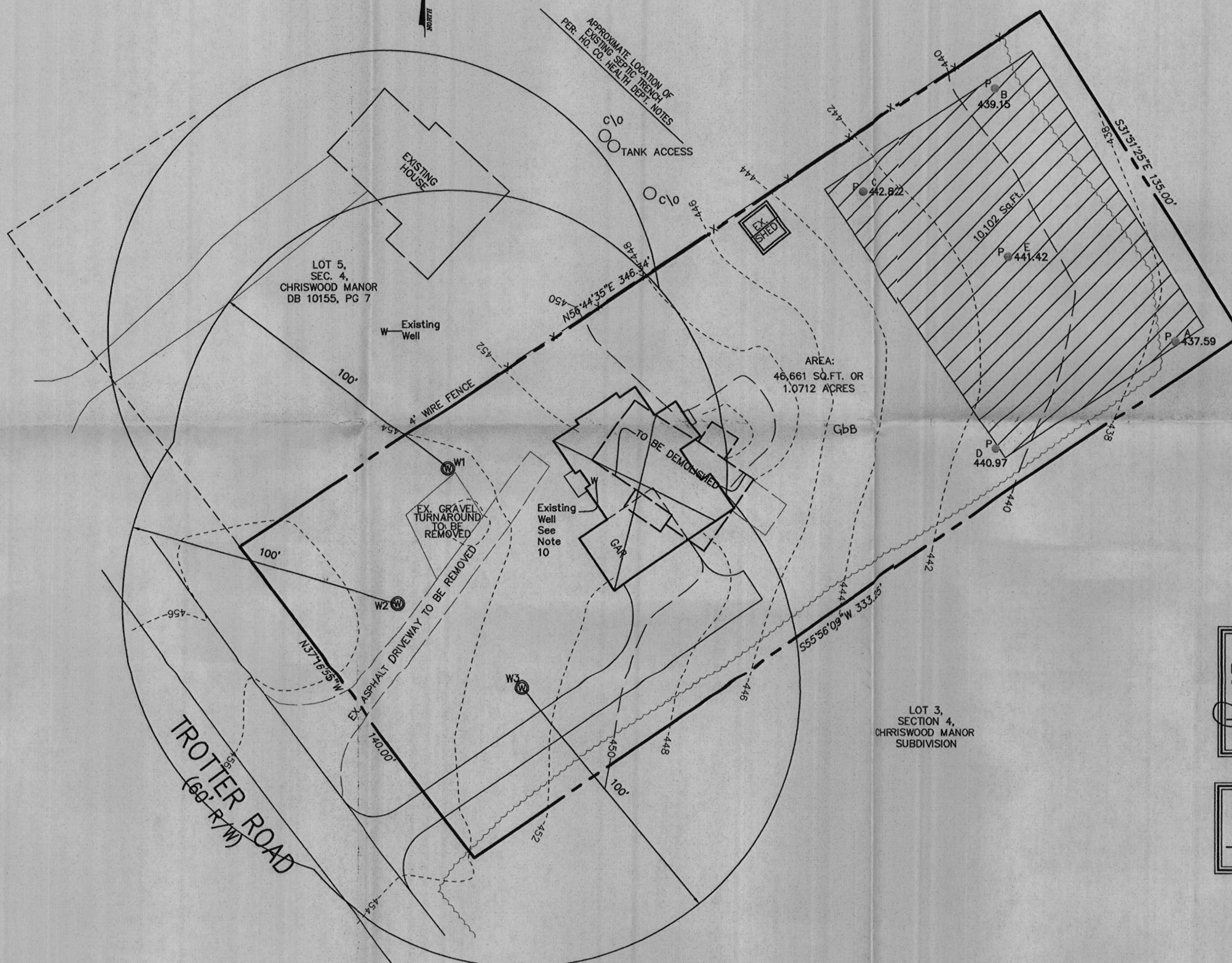
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3. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM ALL REASONABLE EFFORTS.
4. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
5. WELL SHALL BE DRILLED PRIOR TO BUILDING PERMIT IS ISSUED.
6. TOPOGRAPHY SHOWN IS FIELD RUN BY RAZTEC ASSOCIATES, INC.
7. BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
8. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN
9. DEED REFERENCE LIBER 12539 FOLIO 403.
10. EXISTING WELL AND SEPTIC ON 5517 TROTTER ROAD WILL BE ABANDONED AT TIME OF NEW INSTALL.
11. THE LOCATION OF THE EXISTING SEPTIC SYSTEM IS UNKNOWN. IT SHALL BE LOCATED AND PROPERLY ABANDONED AT THE TIME OF NEW SYSTEM INSTALLATION. IF IT IS FOUND TO BE LOCATED WITHIN THE NEWLY CREATED 10,000 SQUARE FOOT SEPTIC DISPOSAL AREA, THE HEALTH DEPARTMENT MAY REQUIRE THAT AREA TO BE REVISED



I certify that the locations shown herein are field locations done under my direct supervision and are correct to the best of my personal knowledge and belief.

Signature of Professional Land Surveyor: Terrell A. Fisher, Professional Land Surveyor, No. 10692 Expires 12/13/13

Date: 1/26/12

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT.

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

**PERC CERTIFICATION PLAT**  
**5517 TROTTER ROAD**

TAX MAP #29 ZONED: R-20 PARCEL: 08  
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1"=30' DATE: JANUARY 26, 2012

**OWNER/DEVELOPER**  
Samuel Thomas  
5517 TROTTER ROAD  
CLARKSVILLE, MD

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
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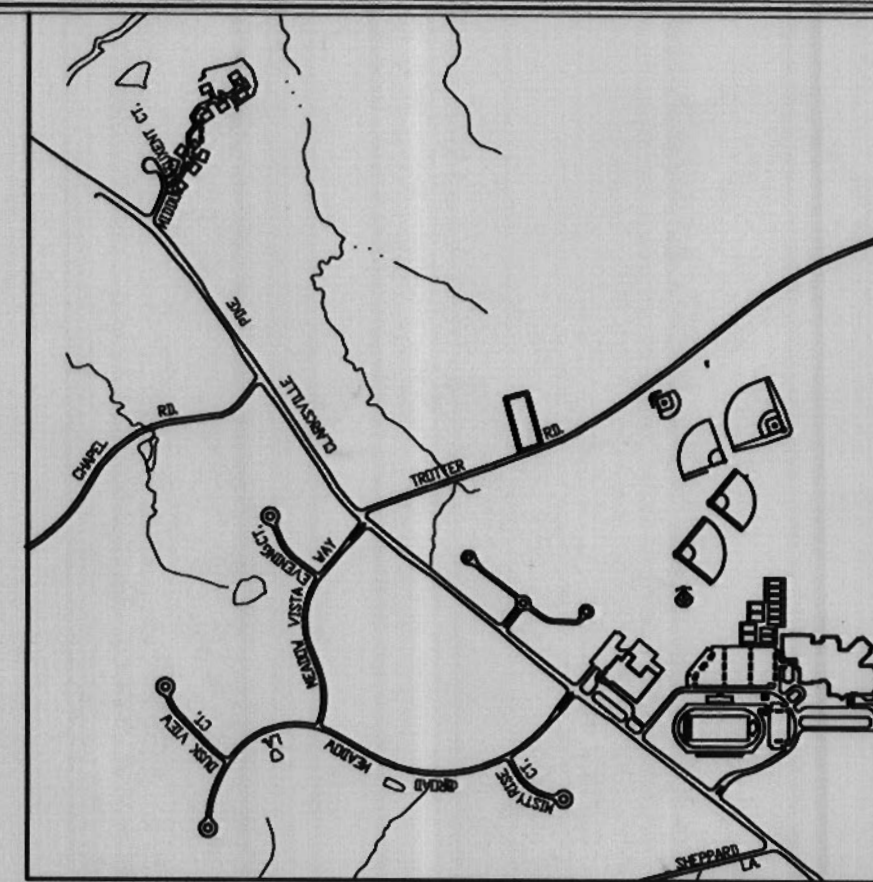
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**LEGEND**

- EXISTING 2' CONTOURS
- - - EXISTING 10' CONTOURS
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- ⊙ DENOTES PROPOSED WELL
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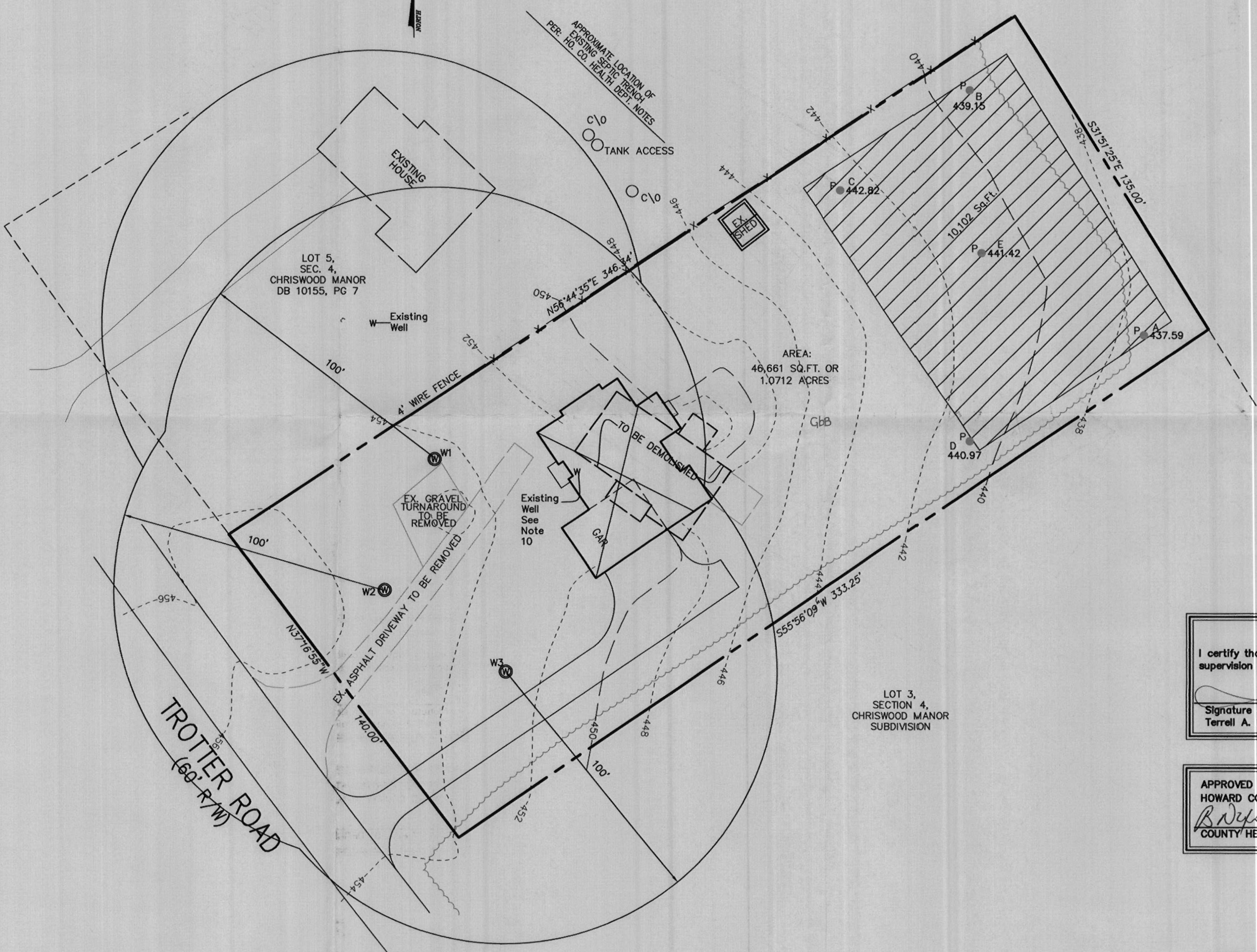
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Signature of Professional Land Surveyor  
 Terrell A. Fisher, Professional Land Surveyor No. 10692 Expires 12/13/13

1/26/12  
 Date

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER

2/6/2012  
 DATE

## PERC CERTIFICATION PLAT 5517 TROTTER ROAD

TAX MAP \*29    ZONED: R-20    PARCEL: 00
5TH ELECTION DISTRICT    HOWARD COUNTY, MARYLAND
SCALE: 1"=30'    DATE: JANUARY 26, 2012

**OWNER/DEVELOPER**  
 Samuel Thomas  
 5517 TROTTER ROAD  
 CLARKSVILLE, MD

