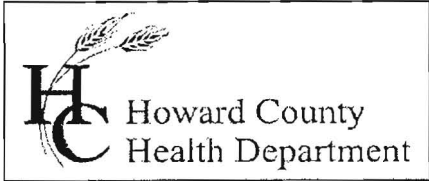


\$ 506.00



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

Maura J. Rossman, M.D., Acting Health Officer

APPLICATION
FOR PERCOLATION TESTING AND SITE EVALUATION

A545109

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME _____ LOT # _____

PROPERTY ADDRESS 11790 OLD FREDERICK RD, MARRIOTTSVILLE, MD 21104-1403
STREET TOWN ZIP

TAX ACCOUNT # 03-295478 TAX MAP 10 GRID 20 PARCEL 45 ZONING DESIGNATION RR-DE0

PROPERTY OWNER(S) SAJID MUHAMMAD

DAYTIME PHONE 410-465-6236 CELL 410-800-8974 EMAIL _____

MAILING ADDRESS 11790 OLD FREDERICK RD, MARRIOTTSVILLE, MD 21104-1403
STREET CITY, STATE ZIP

APPLICANT RIZWAN SIDDIQI RELATIONSHIP TO OWNER: ENGINEER

DAYTIME PHONE 410-570-1938 CELL 410-570-1938 EMAIL RASIDDIQI@GMAIL.COM

MAILING ADDRESS 5410 JOSIE COURT, ELLICOTT CITY, MD 21043
STREET CITY, STATE ZIP

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

BUILDING:

- [X] RESIDENTIAL WITH 5 EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE
[] COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)

PROPERTY:

- [] SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: _____
[] CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
[] REPAIR OR REPLACE FAILING OSDS
[] UPGRADE EXISTING OSDS

IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?

- [] YES
[X] NO

AS APPLICANT, I UNDERSTAND THE FOLLOWING:

- THIS APPLICATION IS VALID FOR TWO(2) YEARS FROM DATE OF FEE PAYMENT AND APPROVAL IS BASED UPON HEALTH OFFICER SIGNATURE OF A PERC CERTIFICATION PLAN PRIOR TO EXPIRATION OF THIS PERMIT.
THE APPLICATION FEE IS NON-REFUNDABLE
THIS APPLICATION MUST BE ACCOMPANIED BY ALL APPLICABLE FEES AND A SUITABLE SITE PLAN IN ORDER TO BE PROCESSED
THIS IS A PUBLIC DOCUMENT

I declare and affirm that to the best of my knowledge, the information contained herein is correct. I declare that I am the owner of the property or duly authorized to make this application on behalf of the owner. I agree to comply with all applicable state and county regulations.

By signature of this application, I hereby grant Howard County Health Department officials the right to enter onto the property for the purpose of inspecting the property as directly related to the requested permit/service.

[Handwritten Signature]

SIGNATURE OF APPLICANT

7/31/13

DATE



Bureau of Environmental Health

8930 Stanford Blvd., Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Acting Health Officer

Date: September 18, 2013

To: Mufti & Associates
C/o Rizwan Siddiqi
Via E-mail: rasiddiqi@gmail.com

RE: **Percolation Testing Report
Muhammad Property
11790 Old Frederick Road
Tax Map 10, Parcel 45**

Percolation testing was conducted on the referenced property on September 17, 2013. The purpose for conducting percolation testing was for an anticipated establishment of a new sewage disposal area for the existing lot. The existing house will be demolished and a new proposed house will take its place on the lot. The current lot has connections for public water and will be required to connect the new house to public water. However, the existing well on the property must be abandoned along with the existing septic system before building permit approval.

A total of five (5) test holes were evaluated. All five were found to be satisfactory with moderate percolation rates. Acceptable ranges for recommended inlet and trench bottom depth, and usable sidewall are indicated, and may be confirmed at the time of installation. At the time of installation the property owner will be required to install the "Best Available Technology". The Field data collected is shown on the Percolation Test Worksheet enclosed with this letter.

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. 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.

The next step in this process is to submit a Percolation Certification Plan to confirm the design of the septic reserve area. When submitting your Percolation Certification Plan please make sure you include all surrounding wells and septic systems. 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
Environmental Specialist II
Well and Septic Program

Cc: File

6413 Windsor Mill Road, Baltimore, Maryland 21207 – Phone: 410-570-1938 Fax: 888-444-7248

Letter of Transmittal

To:

Howard County
 Bureau of Environmental Health
 7178 Columbia Gateway Drive
 Columbia, MD 21046
 Phone: 410-313-2640

Date: October 22, 2013	Job No.
Attention: Ms. Dana Bernard, REHS/RS	
Reference: 11790 Old Frederic Road Perc Certification Plan	

We Are Sending You: Attached Under Separate Cover
 via Delivery the following items:

- Prints Plans Shop Drawings Samples Specification(s)
 Letter Change Order Perc Certification Plan

Copies	Description
3	Perc Certification Plan
1	BAT INFO

These Are Transmitted as Checked Below:

- For Approval Approved As Submitted Resubmit ___ copies for Approval
 For Your Use Approved As Noted Submit ___ copies for Distribution
 As Requested Returned For Corrections Return ___ corrected prints
 For Review and Approval As requested
 Prints Returned After Loan to Us For Bids Due On: _____

Remarks:

Please feel free to call us at 410-570-1938 should you have any questions. Thanks

Copy To: .File/Owner

Signed: Mohammed Mufti

6413 Windsor Mill Road, Baltimore, Maryland 21207 – Phone: 410-570-1938 Fax: 888-444-7248

Letter of Transmittal

To:

Howard County
 Bureau of Environmental Health
 7178 Columbia Gateway Drive
 Columbia, MD 21046
 Phone: 410-313-2640

Date: December 6, 2013	Job No.
Attention: Ms. Dana Bernard, REHS/RS	
Reference: 11790 Old Frederic Road Perc Certification Plan	

We Are Sending You: **Attached** **Under Separate Cover**
 via Delivery the following items:

- Prints** **Plans** **Shop Drawings** **Samples** **Specification(s)**
 Letter **Change Order** Perc Certification Plan

Copies	Description
3	Revised Final Perc Certification Plans

These Are Transmitted as Checked Below:

- For Approval** **Approved As Submitted** **Resubmit ___ copies for Approval**
 For Your Use **Approved As Noted** **Submit ___ copies for Distribution**
 As Requested **Returned For Corrections** **Return ___ corrected prints**
 For Review and Approval **As requested**
 Prints Returned After Loan to Us **For Bids Due On: _____**

Remarks:

Please feel free to call us at 410-570-1938 should you have any questions. Thanks

Copy To: .File/Owner

Signed: Mohammed Mufti

Bernard, Dana

From: Bernard, Dana
Sent: Monday, August 26, 2013 4:13 PM
To: 'Rasiddiqi@gmail.com'
Subject: FW: 11790 Old Frederick Road

From: Bernard, Dana
Sent: Monday, August 26, 2013 4:12 PM
To: 'RASDDIQI@GMAIL.COM'
Subject: 11790 Old Frederick Road

Per our Conversation:

Mr. Siddiqi,

I am available for percolation testing September 17th, 18th, or 19th. Please send me an e-mail to confirm a date. I will also need the name and number of the contractor you will be hiring.

Thanks and Have a Great Day!

Dana Bernard, REHS/RS
Environmental Specialist II
Bureau of Environmental Health
Well and Septic Program
Phone (410) 313-2775
E-mail: DBernard@howardcountymd.gov

Percolation Information- 11790 Old Frederick Road

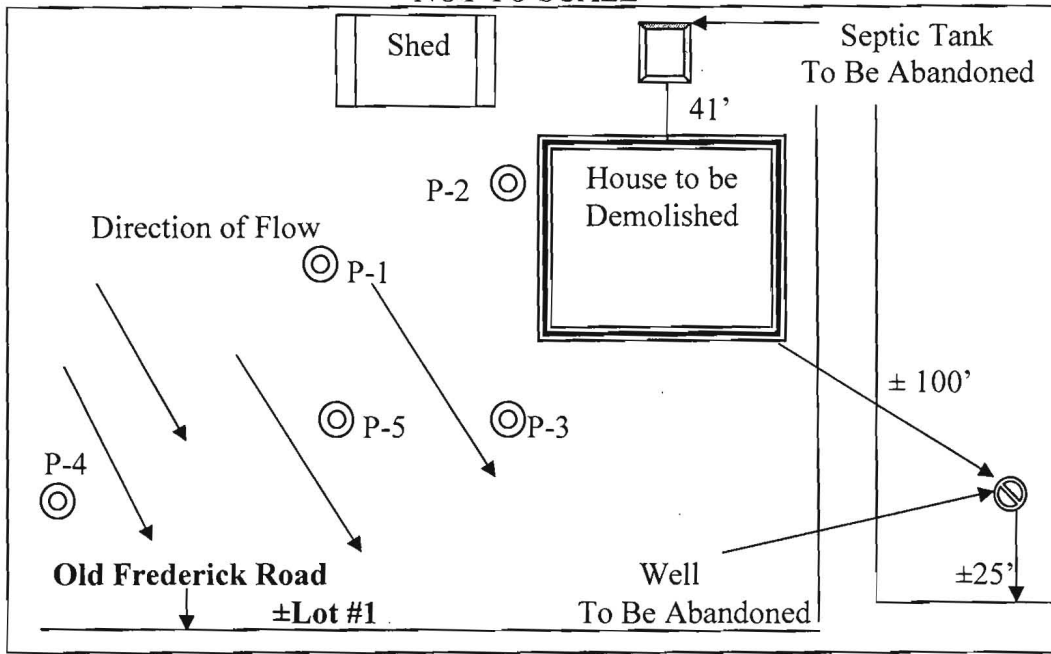
NOT TO SCALE

1

2sbk , Dk. Gray Black SCL
-----0.5'

Red-Brown SCL
Much Mica 5%-10% RX
-----4'

Red Brown Yellow Much Mica SL
5-10% Shale
-----13'



4

2sbk, Dk. Brown Grey, SCL
-----0.5'

Red-Brown Yellow (Dense) SCL
-----5.5'

Red-Brown Yellow SL
Many Mica 10-20% Shale/Rx Silty
-----13'

#2

2sbk , Dk. Brn Black SCL
-----0.8'

Red-Brown SCL (Dense)
-----5'

Red-Brown Yellow FSL
Many Mica 5%-10% RX Shale /Silty
-----13'

Date	Test	Depth	Start	Break 1" Drop	Break 2" Drop	Time of 2 nd Inch	P/F/H
09-17-13	1	5/ 13	10:55	10:58	11:02	4 min.	Pass
09-17-13	2	5.5 /13	10:35	10:37	10:40	3 min.	Pass
09-17-13	3	6/ 13	10:00	10:13	10:34	21 min.	Pass
09-17-13	4	6/13	10:14	10:24	10:45	21 min.	Pass
09/17/13	5	6/13	11:28	11:33	11:40	7 min.	Pass

#5

2sbk , Dk. Brn Black SCL
-----0.8'

Red-Brown SCL (Dense)
-----5'

Red-Brown Yellow FSL
Many Mica 5%-10% RX Shale /Silty
-----13'

3

2sbk, Dk. Brown Grey, SCL
-----0.5'

Red-Brown Yellow (Dense) SCL
-----5.5'

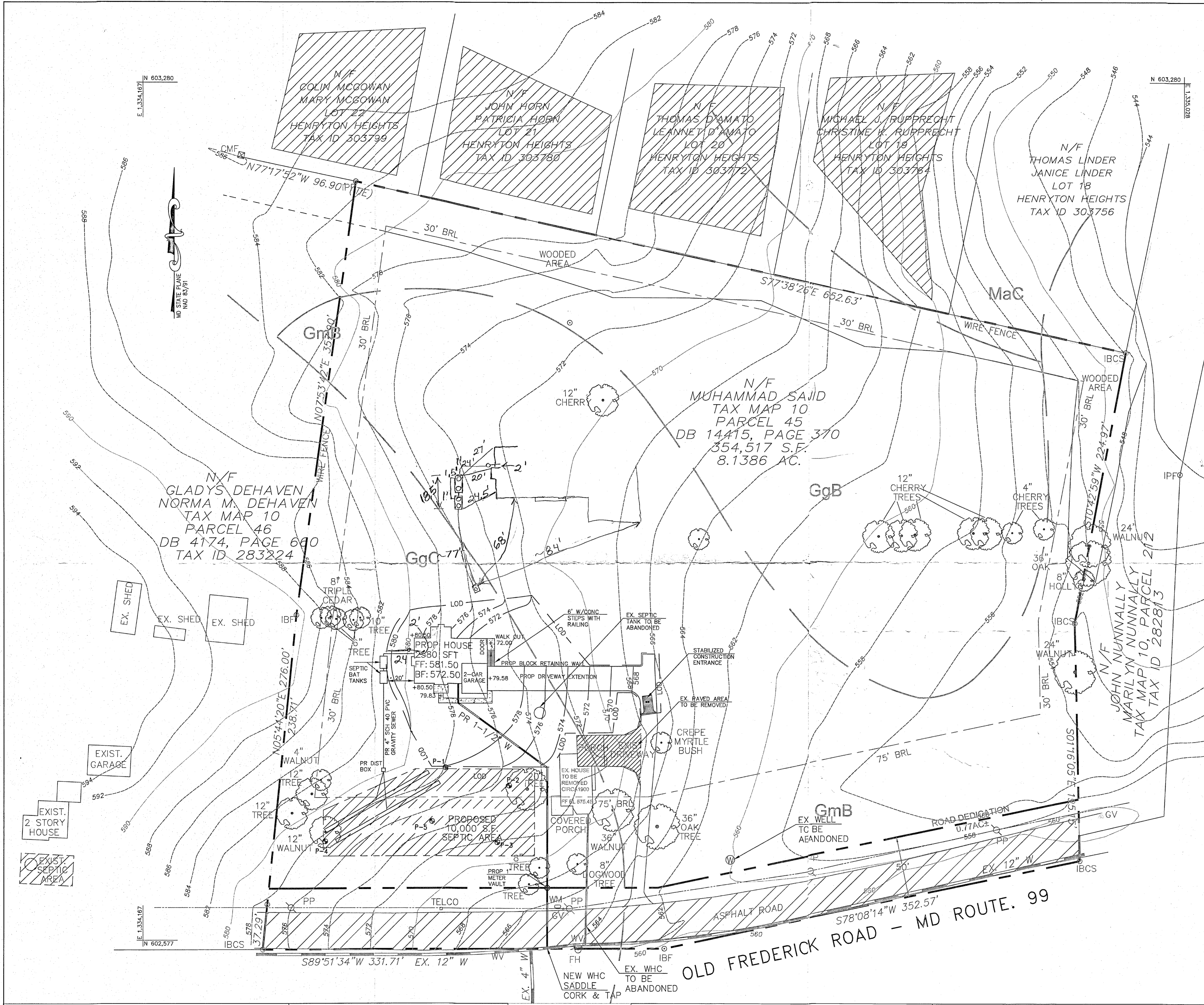
Red-Brown Yellow SL
Many Mica 10-20% Shale/Rx Silty
-----13'

Remarks: Well and Septic system must be abandoned.
Existing House must be removed.

Sanitarian D.Bernard Backhoe Ronnie Heaps Others _____

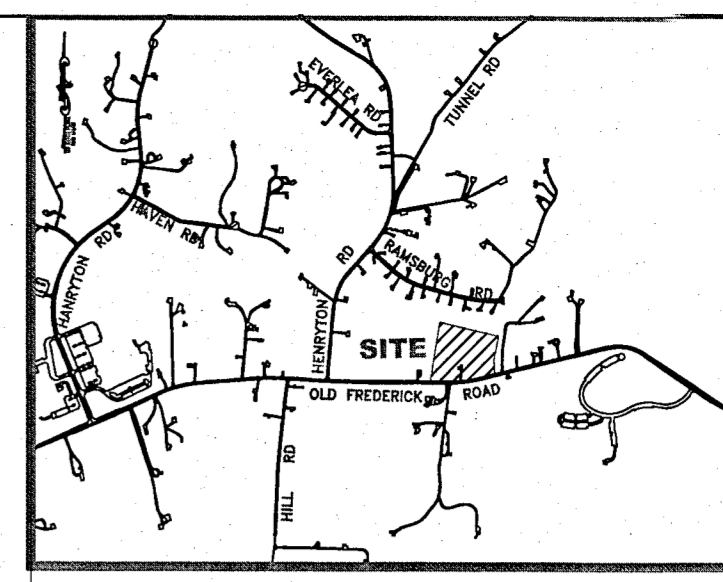
Test Holes Used in SDA Avg. Perc Time 11 min. SQ.FT/BR

Trench Width 3 Inlet Depth 3 Max Bot.Depth 8 Effective S/W



LEGEND

- 548 --- EXIST GRADE
- 572 --- PROPOSED GRADE
- WATER MAIN
- FIRE HYDRANT
- EXIST WELL HEAD
- ELECTRIC POLE
- WATER METER
- TRAVERSE POINT
- EXIST TREE
- PASSED TEST HOLES (SEP 2013)
- SEPTIC AREA (SEE NOTE#2)



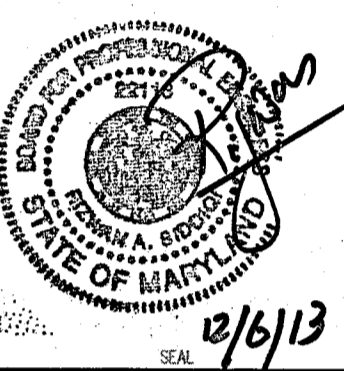
- GENERAL NOTES:**
- SUBJECT PROPERTY IS CURRENTLY ZONED RR-DEO.
 - TOPOGRAPHY SHOWN IS BASED ON FIELD RUN SURVEY PERFORMED BY POINT-TO-POINT LAND SURVEYORS IN SEP 2013 AND IS VERIFIED TO ACCURATELY REPRESENT THE RELATIVE CHANGES ON THE SUBJECT PROPERTY.
 - BOUNDARY SHOWN IS BASED ON BOUNDARY SURVEY PERFORMED BY POINT-TO-POINT LAND SURVEYORS.
 - CURRENT DWELLING IS NOT IN USE AND SHALL BE DEMOLISHED AFTER CONSTRUCTION OF NEW AS APPROVED BY HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING THROUGH LETTER DATED AUGUST 2, 2013.
 - PROPOSED DWELLING WILL BE 5 BED ROOM SINGLE FAMILY HOME.
 - SUBJECT PROPERTY HAS PUBLIC WATER. CURRENT 3/4" WHC WILL BE ABANDONED IN PLACE AND A NEW 1-1/2" WHC WITH 1" METER WILL BE INSTALLED.
 - CURRENT HOUSE IS SERVED BY SEPTIC. NEW PERC TESTS WERE PERFORMED AND OBSERVED BY COUNTY INSPECTOR ON SEPTEMBER 17, 2013. ALL TESTS PASSED.
 - THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
 - ANY CHANGES TO THE PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 - ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100 FEET OF THE LOT BOUNDARIES AND 200 FEET DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEM HAVE BEEN SHOWN.
 - THE EXISTING WELL HEAD ON THIS LOT HAS BEEN FIELD LOCATED BY MUFTI & ASSOCIATES AND IS ACCURATELY SHOWN AND MUST BE ABANDONED PRIOR TO BUILDING PERMIT APPROVAL.
 - BEST AVAILABLE TECHNOLOGY (BAT) FOR SEPTIC TREATMENT WILL BE PROVIDED BY SEPTI-TECH M550 TWO-COMPARTMENT SEPTIC TANK SYSTEM AS SHOWN ON THE PLAN.
 - EXISTING SEPTIC MUST BE ABANDONED PRIOR TO INSTALLATION OF NEW SEPTIC SYSTEM.

SOILS LEGEND

MAP SYMB	SOIL GROUP	SOIL TYPE
GgB	B	GLENELG LOAM, 3-8 % SLOPES
GgC	B	GLENELG LOAM, 8-15% SLOPES
GlcC	B	GLADSTONE LOAM, 8-15% SLOPES
GmB*	C	GLENVILLE SILT LOAM, 3-8% SLOPES
MaC	B	MANDOR LOAM, 8-15% SLOPES

FROM NATURAL RESOURCES CONSERVATION SERVICES WEB SOIL SURVEY 2.0
* HYDRIC SOILS

OWNER/DEVELOPER
MUHAMMAD SAJID
11790 OLD FREDERICK ROAD
HARRISTSVILLE, MD 21104
PHONE: 410-744-4313



Mufti & Associates
6413 Windsor Mill Rd
Baltimore, MD 21207
Phone: 410-570-1938
Fax: 888-444-7248

MUHAMMAD PROPERTY
11790 OLD FREDERICK ROAD
TAX MAP 10 GRID 20 PARCEL 45
3RD ELECTION DISTRICT

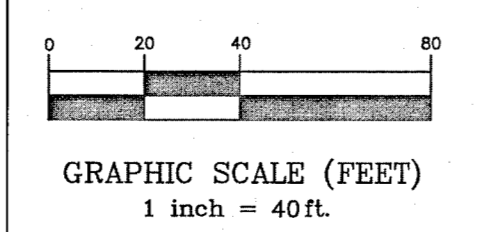
Revisions:	Date:
Designed by: RAS	11/20/13
Drawn by: RAS	11/20/13
Sheet Title:	PERC CERTIFICATION PLAN
Scale:	AS SHOWN

APPROVED FOR PRIVATE SEWERAGE SYSTEM and public water

B.W. upon for Menna Roseman 12/17/2013
HEALTH OFFICER, HO. CO. HEALTH DEPT. DATE PLAN PREPARER

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PLAN PREPARER



- BAT NOTES:**
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
 - THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATIONS IS 2 FEET
 - NO BLOWERS ARE USED IN SEPTI-TECH SYSTEM.
 - THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.

- THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
- WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO MDE IN A MANNER ACCEPTABLE TO MDE, THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND THE TYPE OF BAT INSTALLED.
- ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.

- AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OF HOWARD COUNTY.
- THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.