



Building Permit Application

Howard County Maryland
 Department of Inspections, Licenses and Permits
 3430 Court House Drive
 Permits: 410-313-2455
 www.howardcountymd.gov

Date Received: _____

Permit No.: _____

Building Address: 1386 Orver Rd
 City: Marristown, IL State: MD Zip Code: 21104
 Suite/Apt. # _____ SDP/WP/BA #: _____
 Subdivision: _____
 Lot: _____ Tax Map: 10 Parcel: _____

Existing Use: SFD
 Proposed Use: Deck
 Estimated Construction Cost: \$ _____
 Description of Work: Wood Deck 16'x16'

Occupant/Tenant Name: Collin Ferguson
 Was tenant space previously occupied? Yes No
 Contact Name: _____
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____ Fax: _____
 Email: _____

Property Owner's Name: Collin & Kim Ferguson
 Address: 731 S Curley St
 City: Bethesda, MD State: MD Zip Code: 21224
 Phone: 443-742-1392 Fax: _____
 Email: _____

Applicant's Name & Mailing Address, (If other than stated herein)
 Applicant's Name: Jeffrey M Wood
 Address: 2200 Elliotts Chance Ct
 City: White Hall, MD State: MD Zip Code: 21161
 Phone: 410-627-8321 Fax: 410-329-6228
 Email: Jeffwood@woodbros.net

Contractor Company: Wood Bros Inc
 Contact Person: Jeffrey Wood
 Address: 2200 Elliotts Chance Ct
 City: _____ State: _____ Zip Code: 21161
 License No.: 121455
 Phone: 410-627-8321 Fax: _____
 Email: Jeffwood@woodbros.net

Engineer/Architect Company: _____
 Responsible Design Prof.: _____
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____ Fax: _____
 Email: _____

| Commercial Building Characteristics | Residential Building Characteristics | |
|--|--|--------------|
| Height: | <input type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse | |
| No. of stories: | <u>Depth</u> | <u>Width</u> |
| Gross area, sq. ft./floor: | 1 st floor: | |
| | 2 nd floor: | |
| Area of construction (sq. ft.): | Basement: | |
| | <input type="checkbox"/> Finished Basement | |
| Use group: | <input type="checkbox"/> Unfinished Basement | |
| | <input type="checkbox"/> Crawl Space | |
| Construction type: | <input type="checkbox"/> Slab on Grade | |
| <input type="checkbox"/> Reinforced Concrete | No. of Bedrooms: | |
| <input type="checkbox"/> Structural Steel | Multi-family Dwelling | |
| <input type="checkbox"/> Masonry | No. of efficiency units: | |
| <input type="checkbox"/> Wood Frame | No. of 1 BR units: | |
| <input type="checkbox"/> State Certified Modular | No. of 2 BR units: | |
| | No. of 3 BR units: | |
| | Other Structure: | |
| | Dimensions: | |
| > Roadside Tree Project Permit | Footings: | |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | Roof: | |
| Roadside Tree Project Permit # | <input type="checkbox"/> State Certified Modular | |
| | <input type="checkbox"/> Manufactured Home | |

| Utilities | |
|---|--|
| Electric: | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Gas: | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Water Supply | |
| <input type="checkbox"/> Public | |
| <input type="checkbox"/> Private | |
| Sewage Disposal | |
| <input type="checkbox"/> Public | |
| <input type="checkbox"/> Private | |
| Heating System | |
| <input type="checkbox"/> Electric <input type="checkbox"/> Oil | |
| <input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas | |
| <input type="checkbox"/> Other: | |
| Sprinkler System: | |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Grading Permit Number: | |
| Building Shell Permit Number: | |

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: Jeffrey M Wood
 Email Address: Jeffwood@woodbros.net
 Title/Company: Pros Wood Bros Inc

Print Name: Jeffrey M Wood
 Date: 6/25/19

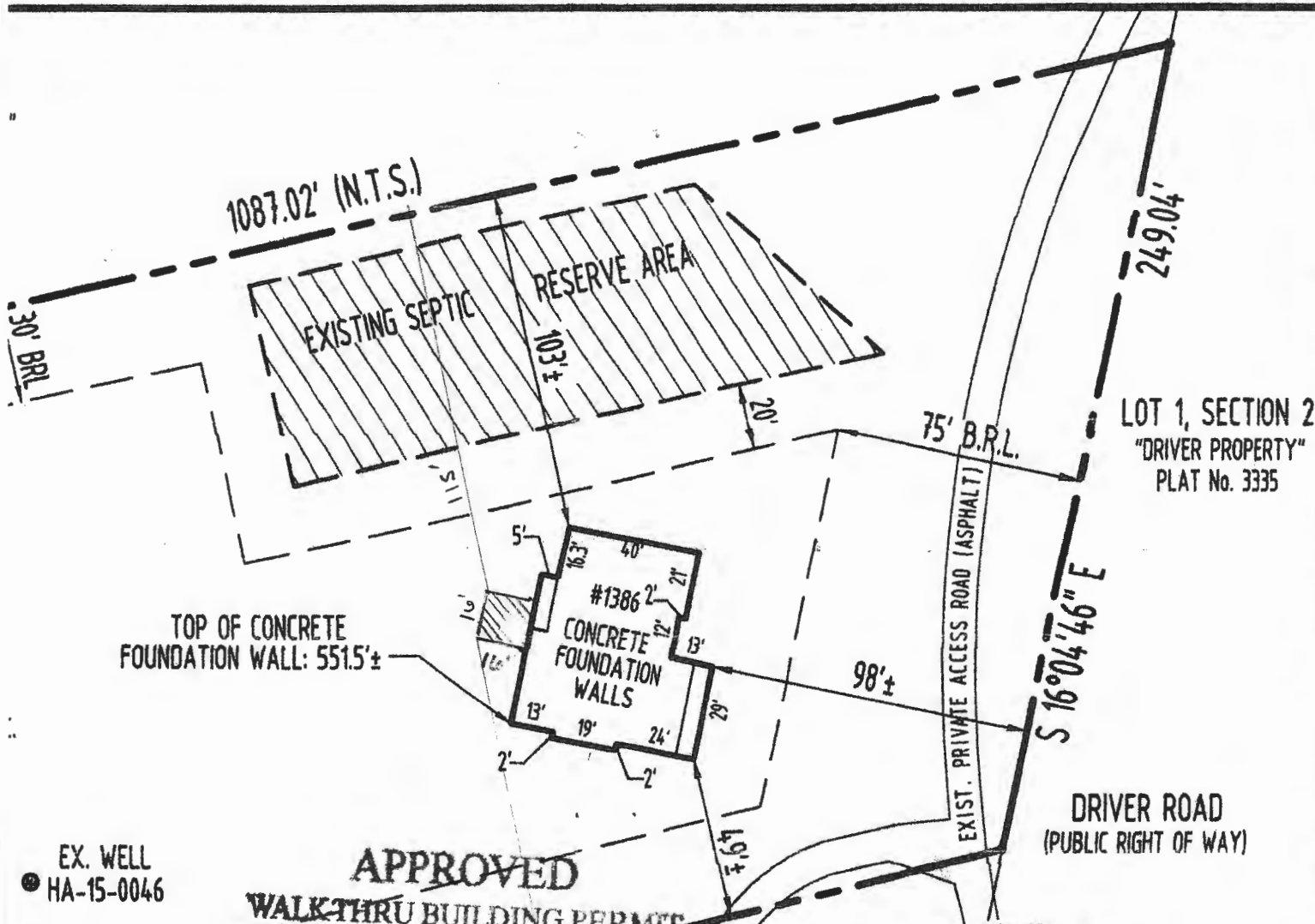
Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY
 PLEASE WRITE NEATLY & LEGIBLY
 -FOR OFFICE USE ONLY-

| AGENCY | DATE | SIGNATURE OF APPROVAL |
|----------------------|------|-----------------------|
| State Highways | | |
| Building Officials | | |
| PSZA (Zoning) | | |
| PSZA (Engineering) | | |
| Health | | <u>[Signature]</u> |

Is Sediment Control approval required for issuance? Yes No
 CONTINGENCY CONSTRUCTION START

| DPZ SETBACK INFORMATION |
|---|
| Front: |
| Rear: |
| Side: |
| Side St.: |
| All minimum setbacks met? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Is Entrance Permit Required? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Historic District? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Lot Coverage for New Town Zone: |
| SDP/Red-line approval date: |

| | |
|-----------------|----|
| Filing Fee | \$ |
| Permit Fee | \$ |
| Tech Fee | \$ |
| Excise Tax | \$ |
| PSFS | \$ |
| Guaranty Fund | \$ |
| Add'l per Fee | \$ |
| Total Fees | \$ |
| Sub- Total Paid | \$ |
| Balance Due | \$ |
| Check | # |



LOT 1, SECTION 2
"DRIVER PROPERTY"
PLAT No. 3335

EX. WELL
HA-15-0046

APPROVED
WALK-THRU BUILDING PERMIT
BP# _____
APP. SAN [Signature] DATE: 6-25-19
DESC. OF WORK: [Signature] Deck, Hxll
Approved as shown



Michael V. Moskunas
Michael V. Moskunas
Professional Land Surveyor #21175
License Expires: 6/25/2019

WEBB GENERAL NOTES

The plat is a benefit to the consumer only insofar as it is required by the lender or a title insurance company or its agent in connection with contemplated transfer, financing or refinancing.

The plat is not to be relied upon for the establishment or location of fences, garages, buildings, or other existing or future improvements.

The plat does not provide for the accurate identification of property lines, but such identification may not be required for the transfer of title or securing financing or refinancing.

(ACCURACY OF SETBACKS: 1'±)

| | | |
|--------------------------------------|------------------|------------------|
| FOUNDATION DRAWING | | |
| #1386 DRIVER ROAD | | |
| LOT 7A TAX ACCT.#298825 | | |
| TAX MAP: 10 - GRID: 10 - PARCEL: 128 | | |
| DEED REFERENCE: W.A.R. 18396/166 | | |
| 3rd ELECTION DISTRICT | | |
| HOWARD COUNTY, MARYLAND | | |
| Scale: 1" = 50' | Date: 01/21/2019 | JOB #10683 |
| Drawn: M.V.M. | Checked: B.L.M. | SURVEY'D: M.V.M. |

Wolf, Kevin

To: Collin Ferguson; JeffWood
Subject: RE: B18003791

From: Collin Ferguson <cfegu22@yahoo.com>
Sent: Wednesday, August 21, 2019 4:28 PM
To: JeffWood <jeffwood@woodbros.net>; Wolf, Kevin <KWolf@howardcountymd.gov>
Subject: Re: B18003791

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hi Kevin,

Jeff forwarded me your email. I also left a message on your voicemail for a call back with some clarification.

Here is a test that was done on 7/9 before any water treatment systems were installed. Will that satisfy your request for pre treatment?

I will fill out the radium agreement form and record it with the county tomorrow. Do I need to drop that off in person to you? Or can I scan it and email it to you?

Also, the water testing company lead me to believe that we wouldn't need any further Radium testing if we got the radium level all the way to zero, which we did. Do we still need to get further testing on radium?

Thanks,

Collin Ferguson
443-742-1392

On Wednesday, August 21, 2019, 12:29:20 PM EDT, JeffWood <jeffwood@woodbros.net> wrote:

Sent from my iPhone

Begin forwarded message:

From: "Wolf, Kevin" <KWolf@howardcountymd.gov>
Date: August 21, 2019 at 12:05:40 PM EDT
To: Jeff Wood <jeffwood@woodbros.net>
Subject: RE: B18003791

Jeff,

A few things that are required here before I can issue your ICOP letter.

1. I need a water sample analysis report that indicates a "raw" sample for bacteria (i.e. post treated UV)

2. From the attached radium results letter back in August 17, 2015, states that the initial radium results were elevated. Treatment needs to be installed (which I see has been) and testing for the following must occur: pre and post treatment short and long term Gross Alpha and Beta, plus a post Radium 226/228.
3. Along with the samples that need to be done, I will need the attached Radium Agreement to be signed by the homeowner(s) and recorded into land records.

Any questions on the above please feel free to contact me.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS

Groundwater Mgmt. Sec. Supervisor

Well & Septic Program

Bureau of Environmental Health

8930 Stanford Blvd.

Columbia, MD 21045

(o) 410-313-2645

(f) 410-313-2648

kwolf@howardcountymd.gov

CONFIDENTIALITY NOTICE

This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.

From: Jeff Wood <jeffwood@woodbros.net>
Sent: Tuesday, August 20, 2019 6:53 PM
To: Wolf, Kevin <KWolf@howardcountymd.gov>
Cc: 'Collin Ferguson' <cfergu22@yahoo.com>
Subject: B18003791

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Kevin,

Could you check the status of the well report and septic final for building permit # 18003791 1386 Driver Rd Marriottsville 21104

The potability report was completed was completed 8/12 and I have attached a copy.

I would like to get those items in the system to gain a release of the U&O

Thanks

Jeff

Jeff Wood

Wood Bros. Inc.

2200 Elliottschance Court

White Hall, MD 21161

410-627-8321 phone/cell

410-329-6228 fax

jeffwood@woodbros.net

www.woodbros.net

**COMPLETE THIS FORM WHEN DROPPING OFF ANY
CORRESPONDENCE AND/OR PLANS TO THE HOWARD COUNTY
DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS COUNTER:**

Date: 5/22/19
To: Robert Bricker
(Person's Name and Division)
From: Michelle Clancy 4436107514
(Your Name, Company Name and Telephone Number)
Subject: Project name propane tank
Project site address 1380 Driver Rd
Permit # B19001359 SDP # _____
Other information pertinent to this project _____

RECEIVED
MAY 22 2019
PLAN REVIEW DIVISION

Please check the attachments below that you are submitting with this transmittal:

- Letter of response to address plan review comment letter
- Revised plans and/or revised details: When submitting for a complete re-review, **duplicate sets shall be submitted.**
- Letter Summarizing Changes
- Energy conservation calculations
- Copies of _____ (be specific).
- Health Department Request DPZ/ DED Request Applicant's Request

Two sets of single family dwelling model plans to be placed on permanent file: Model name and/or # _____
 Other site plans changing location of tank per health

Contact Person Information: (Required)

Michelle Clancy
Please Print Name

Telephone No: 4436107514
E-Mail Address: michelle@appliedandapproved.com

PLEASE ASSURE ALL DOCUMENTS AND/OR REVISIONS ARE APPROPRIATELY SIGNED AND SEALED, IF NECESSARY, BY A LICENSED ARCHITECT OR ENGINEER. PLEASE BE ADVISED THAT INSUFFICIENT INFORMATION MAY RESULT IN THE DELAY OF REVIEW BY THE PLANS EXAMINER. THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS WILL CONTACT YOU IF THERE IS A PROBLEM. IN ADDITION, ONCE THE BUILDING PERMIT IS APPROVED BY THE PLAN REVIEW DIVISION AND ALL OTHER REQUIRED SIGNATORY AGENCIES, AND THE BUILDING PERMIT IS READY FOR ISSUANCE, THE PERMIT DIVISION WILL NOTIFY THE APPROPRIATE CONTACT PERSON FOR PERMIT PICK UP. ALL PERMIT STATUS INQUIRIES SHALL BE DIRECTED TO THE PERMIT DIVISION AT 410-313-2455. CODE RELATED QUESTIONS AND PLAN REVIEW INQUIRIES SHALL BE DIRECTED TO THE PLAN REVIEW DIVISION AT 410-313-2436. PLEASE ALLOW A MINIMUM OF FIVE (5) WORKING DAYS FOR ANY PLAN SUBMITTALS TO BE REVIEWED. THANK YOU.

Received by [Signature]

RECEIVED
MAY 22 2019
LICENSES & PERMITS
DIVISION

FLOOD INSURANCE NOTE: By graphics plotting only, this property is in ZONE "X" of the Flood Insurance Rate Map, Community Panel No. 24027C0060 D effective date of 11/06/2013. Exact designations can only be determined by an Elevation Certificate. Based on the above information, this property IS NOT in a Special Flood Hazard Area.

REVISED
 Date: 5/22/19
 Comments: B19-1359

LOT 2
 "BOYER PROPERTY"
 PLAT No. 5113

LOT 7A
 245,100 S.F. OR 5.6267 AC.
 W.A.R. 18396/166

LOT 1, SECTION 2
 "DRIVER PROPERTY"
 PLAT No. 3335

N 24°59'14" W 6.61'

R=380'
 A=45.76'
 BRG=N 28°26'15" W
 CH=45.74'

Approved Septic System Plan
 Howard County Health Department
 Revised location of
 UG LPTank approved
 5/3/2019
 Signature
 Date

MARRIOTTSVILLE ROAD
 (PUBLIC RIGHT OF WAY)

1386 Driver Road
 B19001359

1087.02' (N.T.S.)

249.04'

N 49°47'16" E

30' B.R.L.

EXISTING SEPTIC RESERVE AREA

75' B.R.L.

TOP OF CONCRETE FOUNDATION WALL: 551.5±

#1386
 CONCRETE FOUNDATION WALLS

98±

EX WELL
 HA-15-0046

DRIVER ROAD
 (PUBLIC RIGHT OF WAY)

N 49°56'46" W

60' B.R.L.

S 48°33'14" W

962.72' (N.T.S.)

30' B.R.L.

PATTIE OVERBY WEBB
 9252/507

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Michael V. Moskunas

Michael V. Moskunas
 Professional Land Surveyor #21175
 License Expires: 6/25/2019

FOUNDATION DRAWING

#1386 DRIVER ROAD

LOT 7A TAX ACCT.#298825
 TAX MAP: 10 - GRID: 10 - PARCEL: 128
 DEED REFERENCE: W.A.R. 18396/166
 3rd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

Scale: 1" = 60' | Date: 01/21/2019 | JOB #106R3



GRAPHICAL SCALE: 1" = 60'

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

May 17, 2019

TO: Michele Clancy, Applied and Approved Permits, Applicant

RE: Building Permit Application B19001359; 1386 Driver Road

Dear Mrs. Clancy,

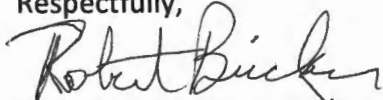
Review of the Building Permit proposal (B19001359) for installation of an underground propane tank at 1386 Driver Road has been assigned the status of 'On Hold' by the Health Department. The proposed location for the tank coincides with the location of the well line, i.e., the water pipe and electrical line connected to the well. While there is not a specific setback from the well line stated in code, there is a factor of safety to consider.

Obviously, the well line and the propane tank are conflicting uses for the same space, and the well line must be accessed safely if necessary. I suggest that the proposed direction of orientation for the propane tank be turned 90 degrees, and that the proposed propane tank location be moved slightly toward the property line from its current proposed location.

If this suggestion or a similar alternative is acceptable, revise the Plot Plan and submit the revision along with a formal Revision Sheet to the Department of Inspections, Licenses, and Permits.

Should you have questions about the content in this letter you may contact me by email (rbricker@howardcountymd.gov) or by phone, (410)313-2691.

Respectfully,



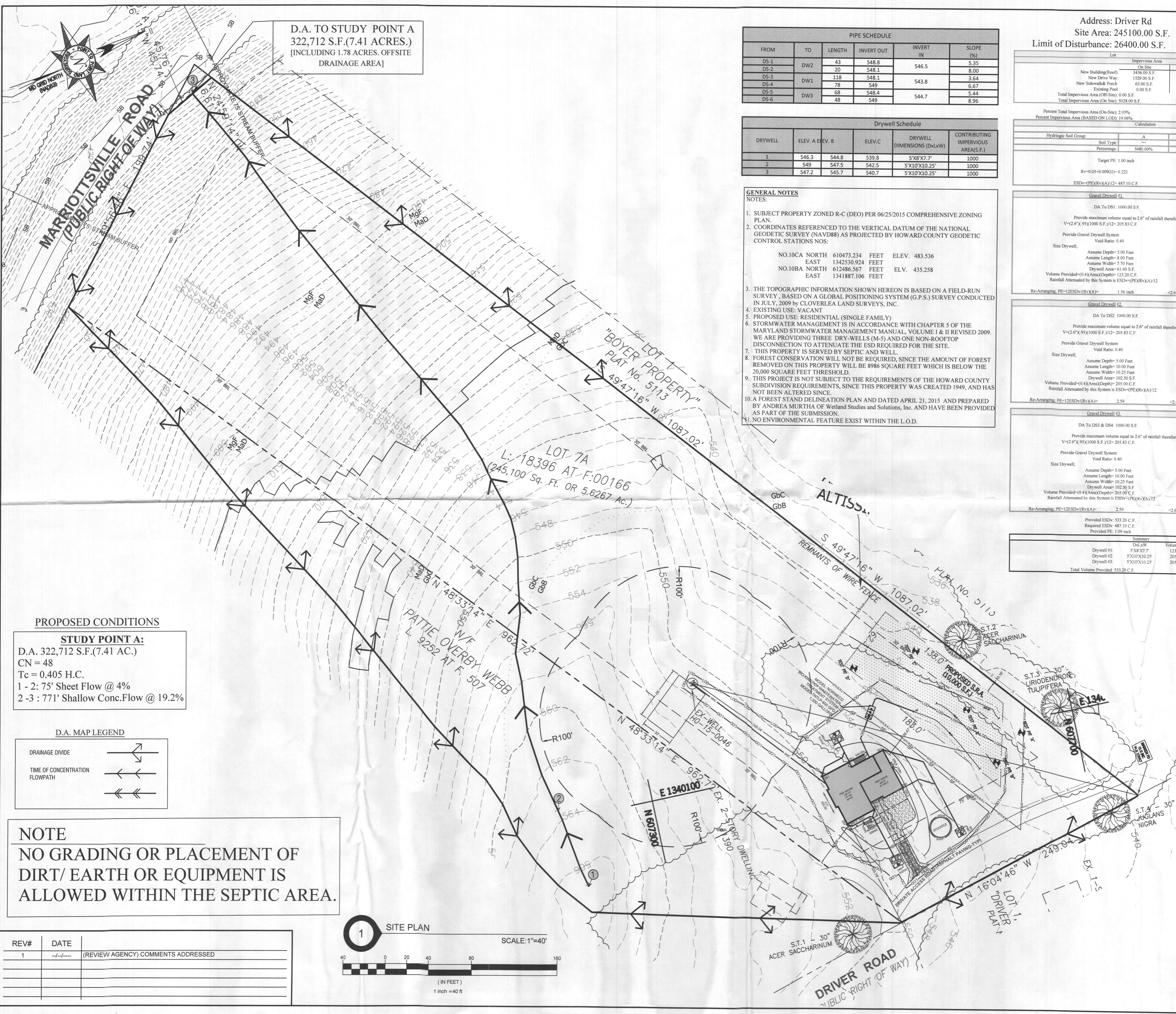
ROBERT BRICKER, REHS/R.S., L.E.H.S.

ENVIRONMENTAL SANITARIAN II

BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM

8930 STANFORD BLVD., COLUMBIA, MD 21045

Copy: property file



D.A. TO STUDY POINT A
322,712 S.F.(7.41 ACRES.)
[INCLUDING 1.78 ACRES. OFFSITE
DRAINAGE AREA]

| PIPE SCHEDULE | | | | | |
|---------------|-----|--------|------------|-----------|-----------|
| FROM | TO | LENGTH | INVERT OUT | INVERT IN | SLOPE (%) |
| DS-1 | DW2 | 43 | 548.8 | 546.5 | 5.35 |
| DS-2 | | 20 | 548.1 | | 8.00 |
| DS-3 | DW1 | 118 | 548.1 | 543.8 | 3.64 |
| DS-4 | | 78 | 549 | | 6.67 |
| DS-5 | DW3 | 68 | 548.4 | 544.7 | 5.44 |
| DS-6 | | 48 | 549 | | 8.96 |

| Drywell Schedule | | | | | |
|------------------|---------|---------|---------|----------------------------|------------------------------------|
| DRYWELL | ELEV. A | ELEV. B | ELEV. C | DRYWELL DIMENSIONS (DxLxW) | CONTRIBUTING IMPERVIOUS AREA(S.F.) |
| 1 | 546.3 | 544.8 | 539.8 | 5'X8'X7.7' | 1000 |
| 2 | 549 | 547.5 | 542.5 | 5'X10'X10.25' | 1000 |
| 3 | 547.2 | 545.7 | 540.7 | 5'X10'X10.25' | 1000 |

GENERAL NOTES
NOTES:

- SUBJECT PROPERTY ZONED R-C (DEO) PER 06/25/2015 COMPREHENSIVE ZONING PLAN.
- COORDINATES REFERENCED TO THE VERTICAL DATUM OF THE NATIONAL GEODETIC SURVEY (NAVD88) AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NOS:
NO.10CA NORTH 610473.234 FEET ELEV. 483.536
EAST 1342530.924 FEET
NO.10BA NORTH 612486.567 FEET ELV. 435.258
EAST 1341887.106 FEET
- THE TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON A FIELD-RUN SURVEY, BASED ON A GLOBAL POSITIONING SYSTEM (G.P.S.) SURVEY CONDUCTED IN JULY, 2009 BY CLOVERLEA LAND SURVEYS, INC.
- EXISTING USE: VACANT
- PROPOSED USE: RESIDENTIAL (SINGLE FAMILY)
- STORMWATER MANAGEMENT IS IN ACCORDANCE WITH CHAPTER 5 OF THE MARYLAND STORMWATER MANAGEMENT MANUAL, VOLUME I & II REVISED 2009. WE ARE PROVIDING THREE DRY-WELLS (M-5) AND ONE NON-ROOFTOP DISCONNECTION TO ATTENUATE THE ESD REQUIRED FOR THE SITE.
- THIS PROPERTY IS SERVED BY SEPTIC AND WELL.
- FOREST CONSERVATION WILL NOT BE REQUIRED, SINCE THE AMOUNT OF FOREST REMOVED ON THIS PROPERTY WILL BE 896 SQUARE FEET WHICH IS BELOW THE 20,000 SQUARE FEET THRESHOLD.
- THIS PROJECT IS NOT SUBJECT TO THE REQUIREMENTS OF THE HOWARD COUNTY SUBDIVISION REQUIREMENTS, SINCE THIS PROPERTY WAS CREATED 1949, AND HAS NOT BEEN ALTERED SINCE.
- A FOREST STAND DELINEATION PLAN AND DATED APRIL 21, 2015 AND PREPARED BY ANDREA MURTHA OF Wetland Studies and Solutions, Inc. AND HAVE BEEN PROVIDED AS PART OF THE SUBMISSION.
- NO ENVIRONMENTAL FEATURE EXIST WITHIN THE L.O.D.

Address: Driver Rd
Site Area: 245100.00 S.F.
Limit of Disturbance: 26400.00 S.F.

| Impervious Area | |
|--|-----------|
| On Site | Off-Site |
| New Building/Roof: 1436.00 S.F. | |
| New Drive Way: 1529.00 S.F. | 0.00 S.F. |
| New Sidewalk & Porch: 63.00 S.F. | |
| Existing Pool: 0.00 S.F. | |
| Total Impervious Area (On-Site): 3028.00 S.F. | |

| Hydrologic Soil Group | Calculation | | | |
|-----------------------|-------------|-------|-------|-------|
| | A | B | C | D |
| Soil Type: --- | --- | --- | --- | --- |
| Percentage: 5480.00% | 45.20% | 0.00% | 0.00% | 0.00% |

Target PE: 1.00 inch
Based on entire lot
Based on LOD
Rv=0.05+0.009(I)-0.221
ESD=(PE/Rv)(A)/12= 487.10 C.F.
REQUIRED ESDv

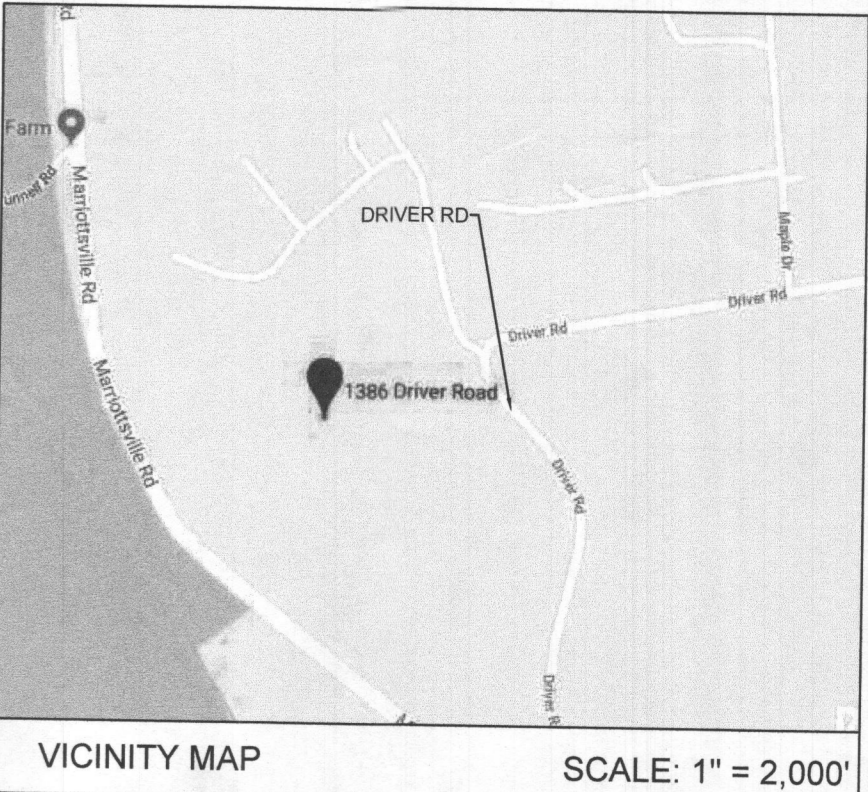
Gravel Drywell #1
DA To DS1: 1000.00 S.F.
Provide maximum volume equal to 2.6" of rainfall therefore volume allowed is:
 $V=(2.6" \times 95 \times 1000 \text{ S.F.}) / 12 = 205.83 \text{ C.F.}$
Provide Gravel Drywell System
Void Ratio: 0.40
Size Drywell:
Assume Depth= 5.00 Feet
Assume Length= 8.00 Feet
Assume Width= 7.70 Feet
Drywell Area= 61.60 S.F.
Volume Provided=(0.4)(Area)(Depth)= 123.20 C.F.
Rainfall Attenuated by this System is ESDv=(PE/Rv)(A)/12
Re-Arranging: PE=12ESDv(Rv/A)= 1.56 inch <2.6 inch-OK

Gravel Drywell #2
DA To DS2: 1000.00 S.F.
Provide maximum volume equal to 2.6" of rainfall therefore volume allowed is:
 $V=(2.6" \times 95 \times 1000 \text{ S.F.}) / 12 = 205.83 \text{ C.F.}$
Provide Gravel Drywell System
Void Ratio: 0.40
Size Drywell:
Assume Depth= 5.00 Feet
Assume Length= 10.00 Feet
Assume Width= 10.25 Feet
Drywell Area= 102.50 S.F.
Volume Provided=(0.4)(Area)(Depth)= 205.00 C.F.
Rainfall Attenuated by this System is ESDv=(PE/Rv)(A)/12
Re-Arranging: PE=12ESDv(Rv/A)= 2.59 <2.6 inch-OK

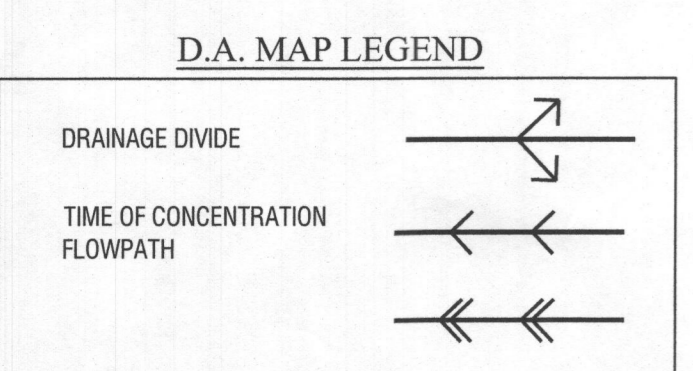
Gravel Drywell #3
DA To DS3 & DS4: 1000.00 S.F.
Provide maximum volume equal to 2.6" of rainfall therefore volume allowed is:
 $V=(2.6" \times 95 \times 1000 \text{ S.F.}) / 12 = 205.83 \text{ C.F.}$
Provide Gravel Drywell System
Void Ratio: 0.40
Size Drywell:
Assume Depth= 5.00 Feet
Assume Length= 10.00 Feet
Assume Width= 10.25 Feet
Drywell Area= 102.50 S.F.
Volume Provided=(0.4)(Area)(Depth)= 205.00 C.F.
Rainfall Attenuated by this System is ESDv=(PE/Rv)(A)/12
Re-Arranging: PE=12ESDv(Rv/A)= 2.59 <2.6 inch-OK

| Provided ESDv: | Required ESDv: | Provided PE: |
|----------------|----------------|--------------|
| 533.20 C.F. | 487.10 C.F. | 1.09 inch |

| Drywell #1: | DxLxW | Volume provided |
|-------------------------------|---------------|--------------------|
| Drywell #1: | 5'X8'X7.7' | 123.20 C.F. |
| Drywell #2: | 5'X10'X10.25' | 205.00 C.F. |
| Drywell #3: | 5'X10'X10.25' | 205.00 C.F. |
| Total Volume Provided: | | 533.20 C.F. |

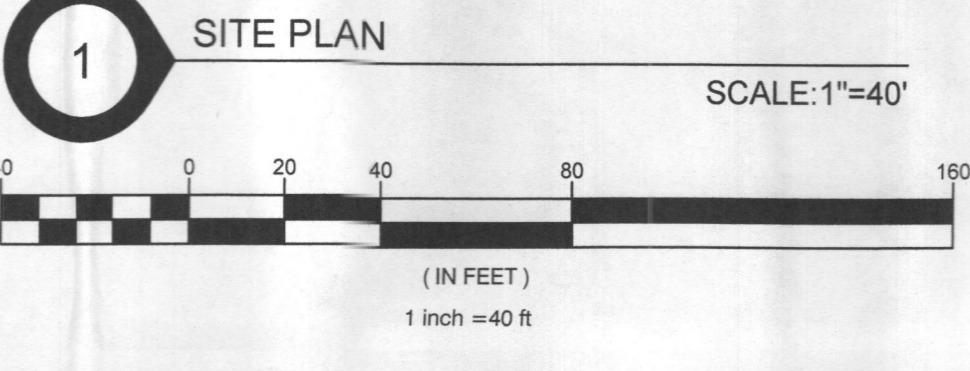


PROPOSED CONDITIONS
STUDY POINT A:
D.A. 322,712 S.F.(7.41 AC.)
CN = 48
Tc = 0.405 H.C.
1 - 2: 75' Sheet Flow @ 4%
2 - 3 : 771' Shallow Conc.Flow @ 19.2%



NOTE
NO GRADING OR PLACEMENT OF DIRT/ EARTH OR EQUIPMENT IS ALLOWED WITHIN THE SEPTIC AREA.

| REV# | DATE | (REVIEW AGENCY) COMMENTS ADDRESSED |
|------|------|------------------------------------|
| 1 | | |



| PROPOSED FEATURE | SYMBOL |
|----------------------------------|----------|
| LIMIT OF DISTURBANCE | LOD |
| PROPOSED BUILDING | [Symbol] |
| PROPOSED PAVEMENT | [Symbol] |
| PROPOSED CONTOUR | 100 |
| PROPOSED SPOT ELEVATION | +250 |
| PROPOSED GRAVEL DRYWELL | [Symbol] |
| PROPOSED DOWNSPOUT LOCATION | DS1 |
| PROPOSED 6" PVC PIPE | 6" PVC |
| PROPOSED 6" PERFORATED PIPE | 6" PVC |
| PROPOSED SILT FENCE | SF |
| PROP. WATER HOUSE CONNECTION | WHC |
| STABILIZED CONSTRUCTION ENTRANCE | SCE |

| SITE PLAN LEGEND | |
|-----------------------------|----------|
| EXISTING FEATURE | SYMBOL |
| SUBJECT SITE BOUNDARY | [Symbol] |
| ADJOINING PROPERTY BOUNDARY | [Symbol] |
| BUILDING RESTRICTION LINE | 7.88L |
| EXISTING CONTOURS (MINOR) | 10L |
| EXISTING CONTOURS (INDEX) | 100 |
| EXISTING FENCE | X |
| EXISTING TREE LINE | [Symbol] |
| EXISTING WATER WELL | W |
| EXISTING TREE TO BE REMOVED | [Symbol] |

SITE GRADING PLAN

1386 DRIVER RD MARRIOTTVILLE LOT 7A

SITUATED AT:
1386 DRIVER ROAD,
HOWARD CO., MD

ZONE: R-C(DEO)
TAX ID: 03-298825
TAX MAP: 10
GRID 10 PARCEL 128
L: 18396 F: 00166

OWNER/ APPLICANT INFO
COLLIN FERGUSON
KIMBERLY FERGUSON
731 S CURLEY ST
BALTIMORE MD 21224
PHONE: (443) 742-1302

THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SEAI
STATE OF MARYLAND
SEAL OF THE STATE ENGINEER

RAZTEC ASSOCIATES, INC.
civil engineers & planners
341 West Patrick St.
Frederick, Maryland 21701
Tel (301) 775-4394
email: raztecengr@comcast.net

PROFESSIONALS' REVIEW STATEMENT:
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 NUMBER: 22742 EXPIRES: JUNE 15, 2020

| | | | |
|----------------|----------|--------|--------------|
| DRAWN BY: SE | DATE | SCALE | SHEET NUMBER |
| CHECKED BY: MR | 1/8/2019 | 1"=40' | 1 of 1 |