

FOUNDATION PLAN

REVISED

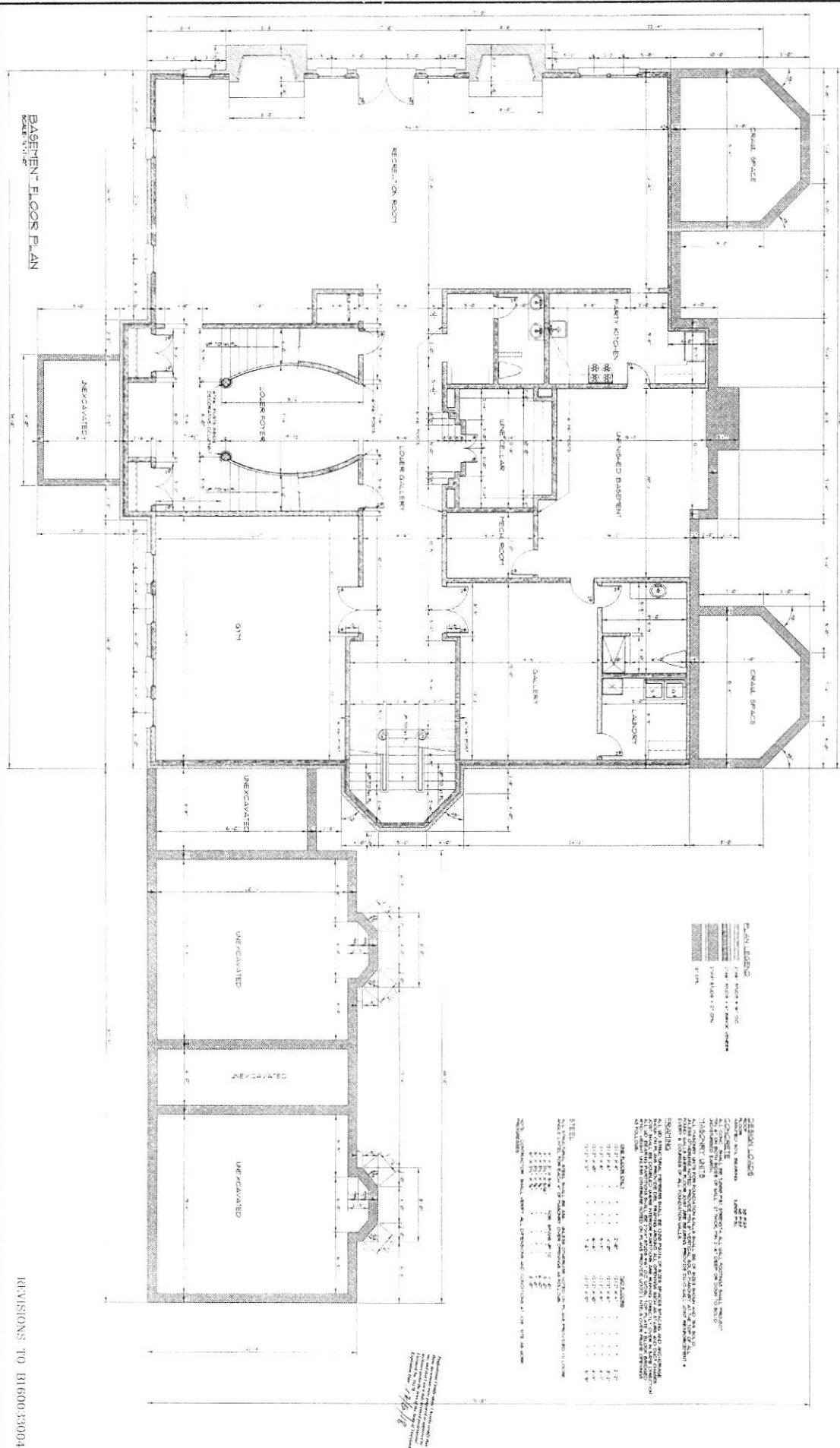
Date: 11/01/2017

Comments: B16003304 Health Dept.

REVISIONS TO B160033004

11/01/17

|   |  |                        |          |          |
|---|--|------------------------|----------|----------|
|   | architectural designer   | engineering consultant | DATE     | REVISION |
|   | <b>W.D.S.</b><br>WOODLAND DESIGN SERVICES<br>220 W. MARKET STREET, SUITE 217 • WASHINGTON, DC 20005<br>202-637-1100 • FAX: 202-637-1101 • WWW.WOODLANDDESIGNSERVICES.COM |                        | 11/01/17 | 001      |
| FOUNDATION PLAN<br>A NEW RESIDENCE AT<br>12942 BRIGHTONDAM ROAD • CLARKSVILLE, MD |  |                        |          |          |



BASEMENT FLOOR PLAN

REVISIONS TO B1600-3304

**PLAN LEGEND**

- CONCRETE
- WOOD
- GLASS
- STEEL
- MECHANICAL
- ELECTRICAL
- PLUMBING
- PAINT
- FINISH

**REVISIONS**

| NO. | DATE     | DESCRIPTION        |
|-----|----------|--------------------|
| 1   | 11/16/18 | ISSUED FOR PERMITS |
| 2   | 11/16/18 | ISSUED FOR PERMITS |
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|  | <b>W.D.S.</b><br>WOODLAND DESIGN SERVICES<br>920 PEARSON STREET, N.W. #2 • ARLINGTON, D.C. 22201<br>ARCHITECTURE, PLANNING, INTERIORS, LANDSCAPE ARCHITECTURE, ENGINEERING, ENVIRONMENTAL CONSULTING<br>PHONE: 202.462.1100 • FAX: 202.462.1101 • WWW.WOODLANDDESIGNSERVICES.COM | architectural designer<br>engineering consultant | Date: 11/16/18<br>Drawn: W.D.S.<br>Checked: W.D.S.<br>Title: ARCHITECT |
|  | PROJECT TITLE<br><b>BASEMENT ARCHITECTURAL PLAN</b><br><b>A NEW RESIDENCE AT</b><br>12942 BRIGHTONDAM ROAD • CLARKSVILLE, MD   | REVISIONS TO B1600-3304                          | REVISIONS TO B1600-3304  |

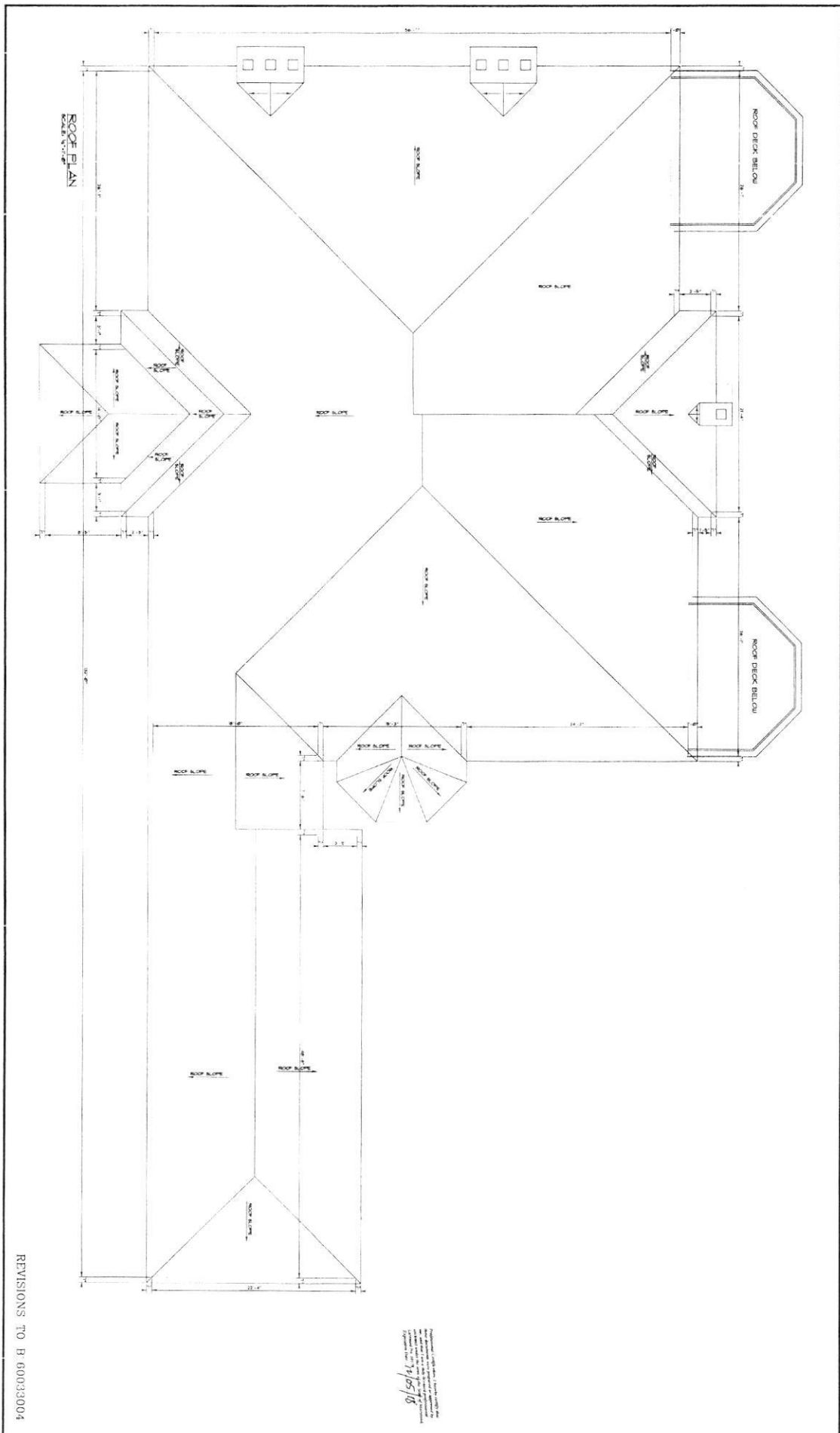










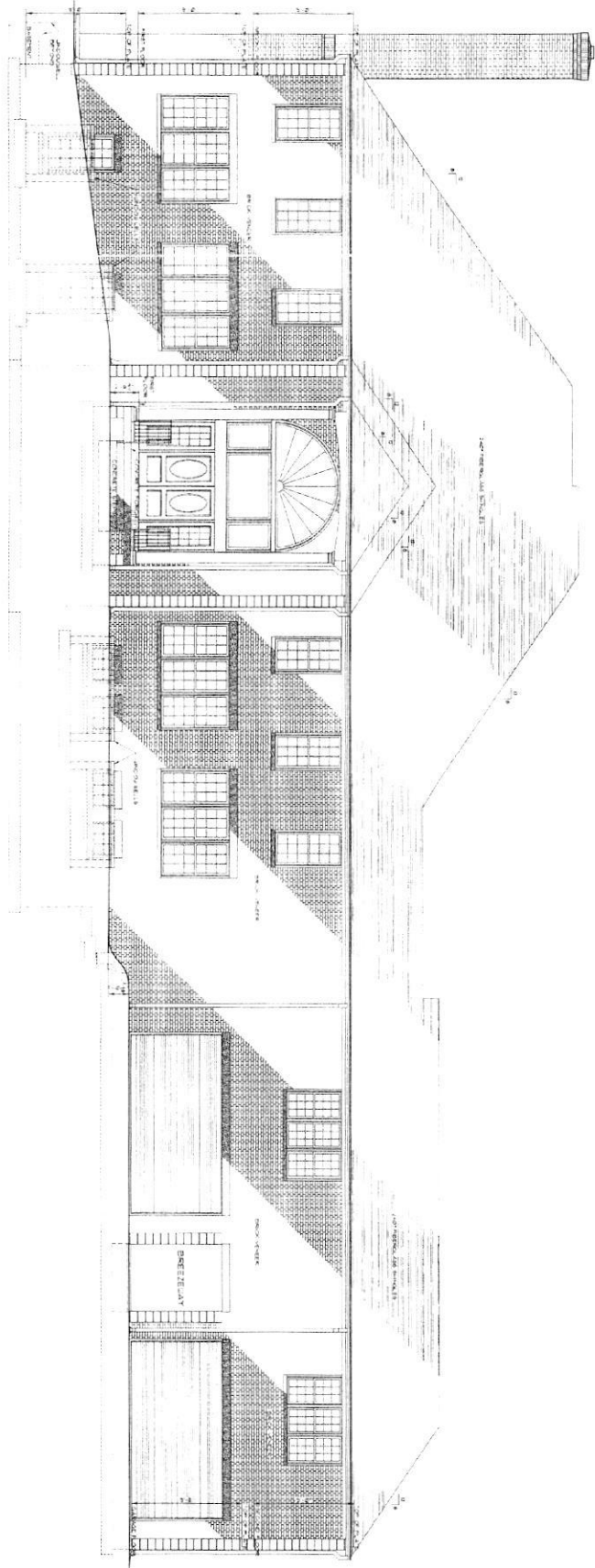


REVISIONS TO B 60033004

17/05/18

|  |                                 |  |  |
|--|---------------------------------|--|--|
| 18<br>12942 BRIGHTONDAM ROAD • CLARKSVILLE, MD | ROOF PLAN<br>A NEW RESIDENCE AT | architectural designer<br><b>W.D.S.</b><br>WOODLAND DESIGN SERVICES<br>1200 HAZARD RD #110, SUITE #110 • WASHINGTON, D.C. 20011<br>ARCHITECTURAL, PLANNING, ENGINEERING, CONSULTING<br>PHONE: 202.714.7343 • FAX: 202.714.7344 | engineering consultant<br>DATE: _____<br>BY: _____ |
|  | 18                              |  | 18   |

FRONT ELEVATION  
SCALE: 1/4" = 1'-0"

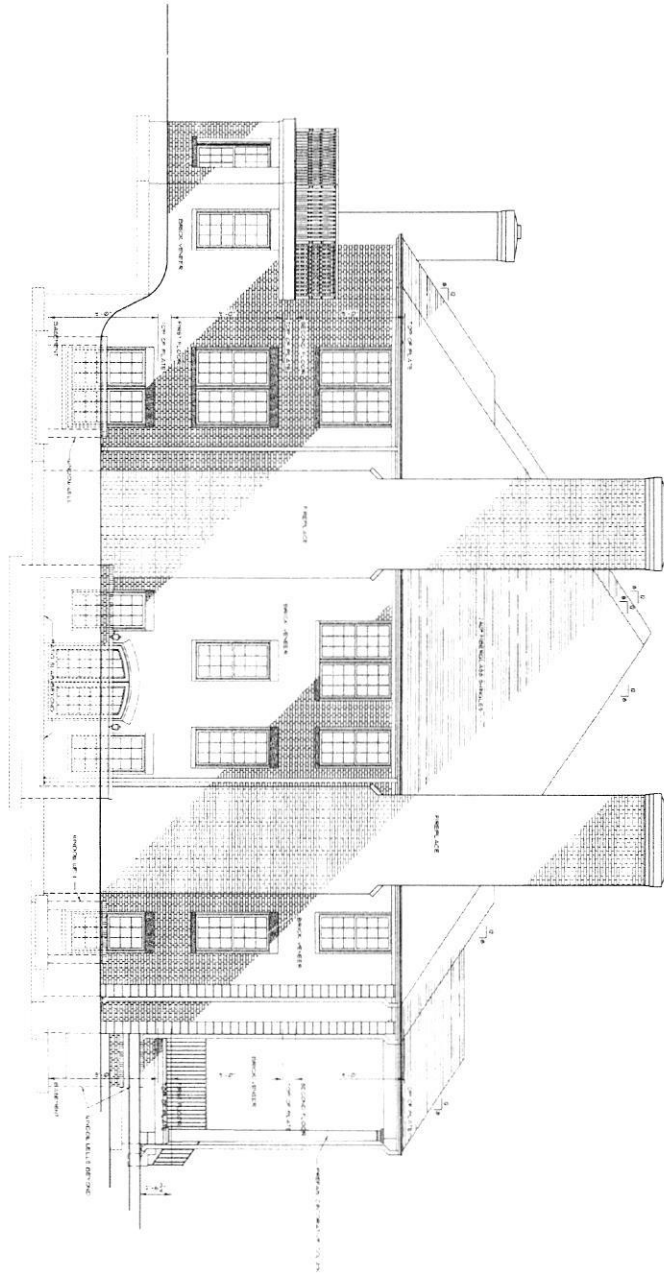


REVISIONS TO B160033004

3/15/16  
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| <p>DATE: 03/15/16<br/>                 DRAWN BY: [Signature]<br/>                 CHECKED BY: [Signature]<br/>                 TITLE: A9</p> | <p>PROJECT TITLE:<br/>                 FRONT ELEVATION<br/>                 A NEW RESIDENCE AT<br/>                 12942 BRIGHTONDAM ROAD • CLARKSVILLE, MD</p> | <p>architectural designer<br/> <b>W.D.S.</b><br/>                 WOODLAND DESIGN SERVICES<br/>                 3311 BRACKLEY CIRCLE, NW, #102 • ROSHARON, DC 20018<br/>                 ARCHITECTURAL PLANS • 3D RENDERING • INTERIOR DESIGN</p> | <p>engineering consultant</p>  | <p>DATE: 03/15/16<br/>                 BY: [Signature]<br/>                 CHECKED BY: [Signature]</p> | <p>PROJECT: [Blank]<br/>                 SHEET: [Blank]<br/>                 TOTAL SHEETS: [Blank]</p> |
|  | <p>WOODLAND DESIGN SERVICES, INC. is an Equal Opportunity Employer. Minorities and women are encouraged to apply.</p>  |   | <p>© 2016 W.D.S. Woodland Design Services, Inc. All rights reserved.</p> |   |  |

LEFT ELEVATION



REVISIONS TO H160033004

*W.D.S.*  
WOODLAND DESIGN SERVICES  
12942 BRIGHTONDAM ROAD • CLARKSVILLE, MD 21031  
301-281-1111 • www.wdsdesign.com

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LEFT ELEVATION  
A NEW RESIDENCE AT  
12942 BRIGHTONDAM ROAD • CLARKSVILLE, MD



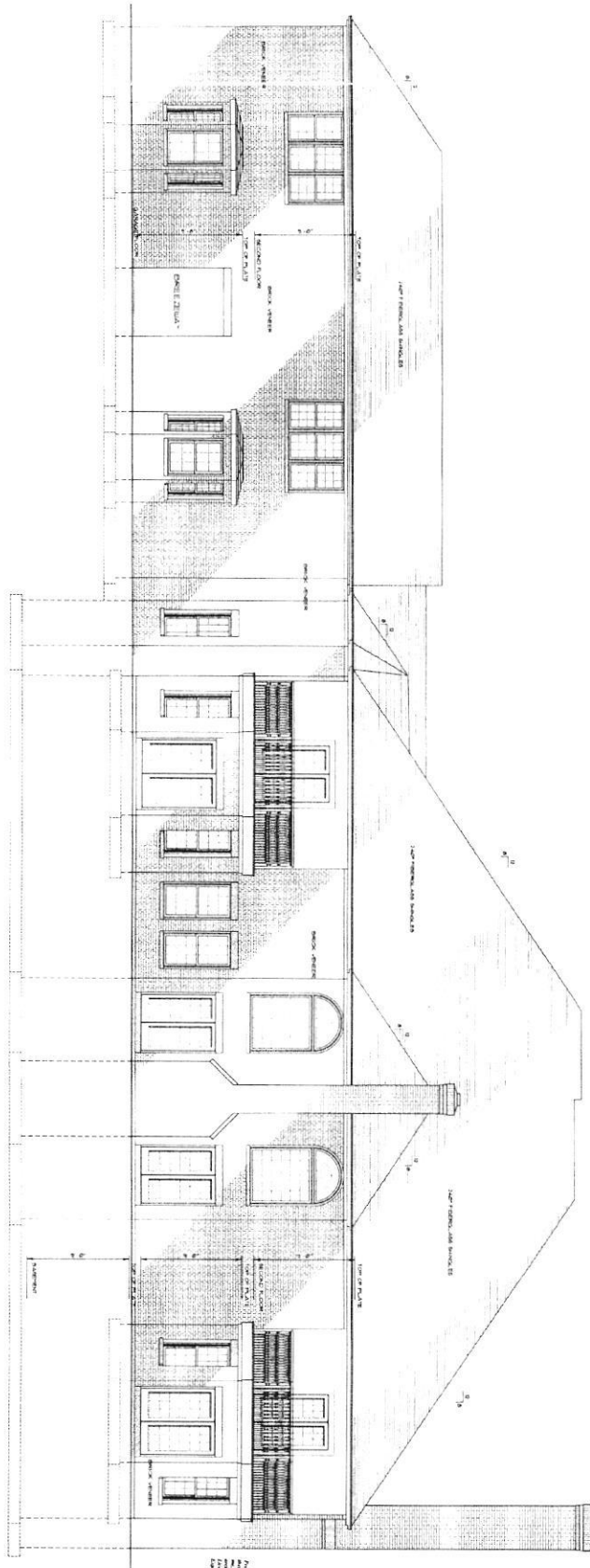
architectural designer  
**W.D.S.**  
WOODLAND DESIGN SERVICES  
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engineering consultant

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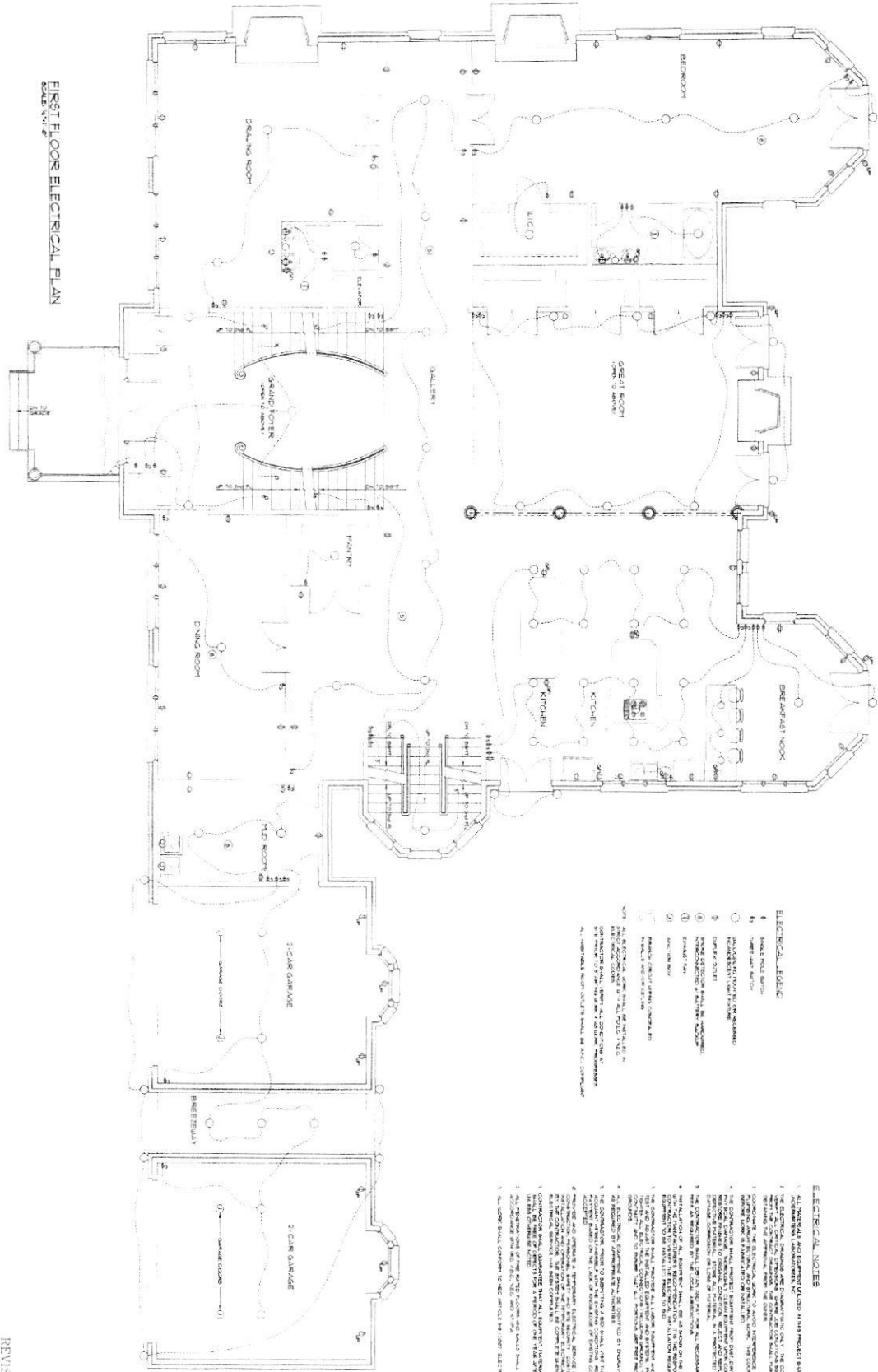
REAR ELEVATION



REVISIONS TO B160033004

| <p>DATE: 11/18/18</p> <p>BY: [Signature]</p> <p>PROJECT: 12942 BRIGHTONDAM ROAD • CLARKSVILLE, MD</p> | <p>architectural designer</p> <p><b>W.D.S.</b></p> <p>WOODLAND DESIGN SERVICES</p> <p>703 PRASADY STREET, N.W. # 2 • WASHINGTON, D.C. 20011</p> <p>ARCHITECTURAL PLANS • TECHNICAL SERVICES • CONSTRUCTION</p> <p>PHONE: 202.774.7543 • FAX: 202.774.7544 • www.wdsdesign.com</p> | <p>engineering consultant</p> <p>DATE: 11/18/18</p> <p>BY: [Signature]</p> | <table border="1"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table> | NO. | DESCRIPTION | DATE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| <p>REAR ELEVATION</p> <p>A NEW RESIDENCE AT</p> <p>12942 BRIGHTONDAM ROAD • CLARKSVILLE, MD</p>       | <p>12942 BRIGHTONDAM ROAD • CLARKSVILLE, MD</p>   | <p>12942 BRIGHTONDAM ROAD • CLARKSVILLE, MD</p>                            | <p>12942 BRIGHTONDAM ROAD • CLARKSVILLE, MD</p>  |     |             |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |





**FIRST FLOOR ELECTRICAL PLAN**

- ELECTRICAL LEGEND**
- 1. SINGLE POLE SWITCH
  - 2. DOUBLE POLE SWITCH
  - 3. DIMMER SWITCH
  - 4. RECEPTACLE
  - 5. LIGHT FIXTURE
  - 6. FAN
  - 7. TELEPHONE
  - 8. TV
  - 9. AUDIO
  - 10. DATA
  - 11. SECURITY
  - 12. FIRE ALARM
  - 13. SMOKE DETECTOR
  - 14. CO
  - 15. GAS
  - 16. WATER
  - 17. AIR
  - 18. RAIN
  - 19. VIBRATION
  - 20. ULTRASONIC
  - 21. INFRARED
  - 22. LASER
  - 23. MICROWAVE
  - 24. X-RAY
  - 25. GAMMA
  - 26. ALPHA
  - 27. BETA
  - 28. NEUTRON
  - 29. OTHER

- ELECTRICAL NOTES**
1. ALL MATERIAL AND LABOR UNLESS NOTED OTHERWISE SHALL BE COVERED BY THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA) STANDARD PRACTICES.
  2. THE ELECTRICAL SYSTEM SHALL BE DESIGNED TO MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA) STANDARD PRACTICES.
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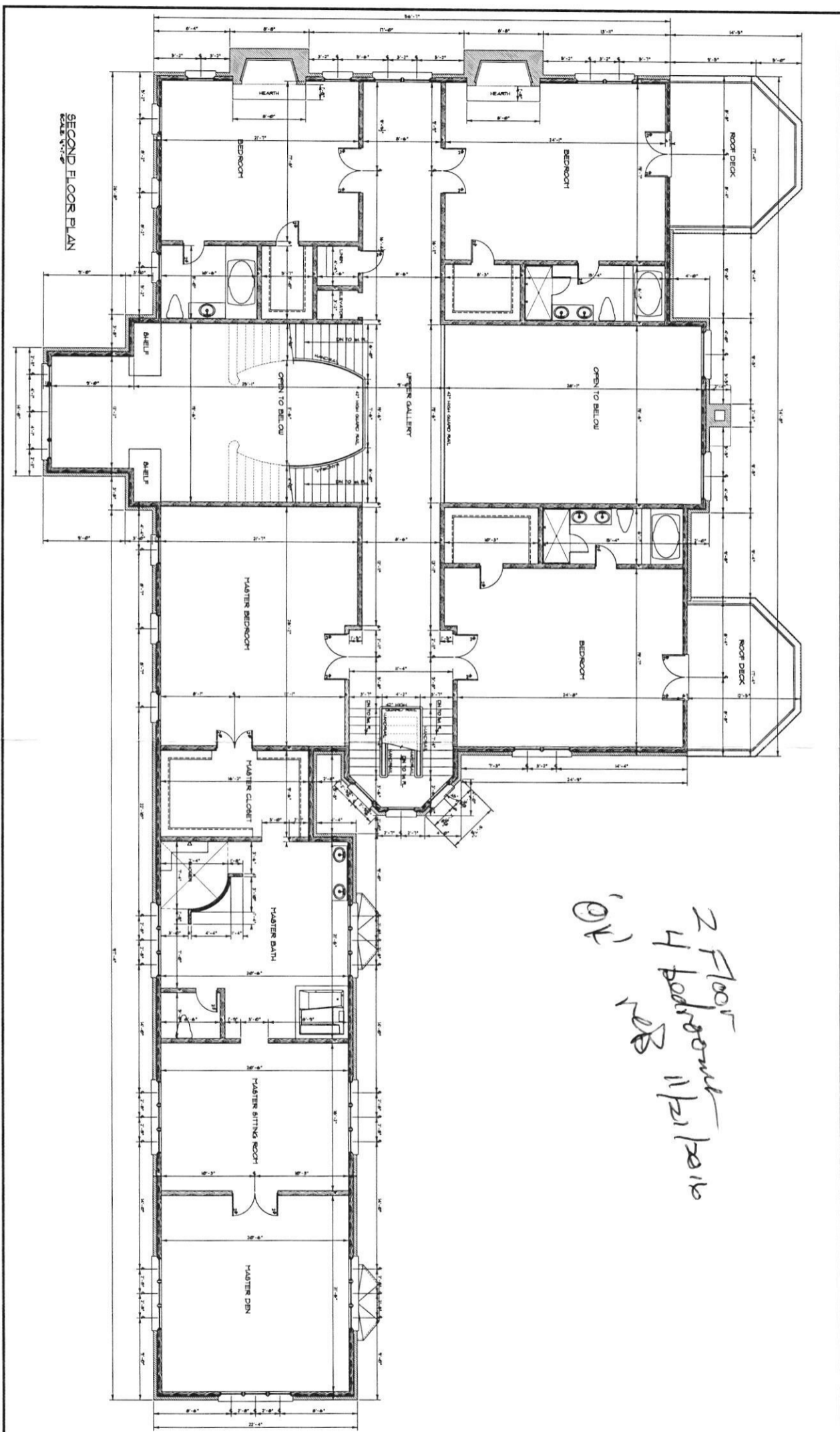
REVISIONS TO B160033004

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| <p>DATE: 11/11/11<br/>         DRAWN BY: [Signature]<br/>         CHECKED BY: [Signature]<br/>         SCALE: AS SHOWN</p> | <p>PROJECT TITLE:<br/> <b>FIRST FLOOR ELECTRICAL PLAN</b><br/> <b>A NEW RESIDENCE AT</b><br/> <b>12942 BRIGHTONDAM ROAD • CLARKSVILLE, MD.</b></p> | <p>architectural designer<br/> <b>W.D.S.</b><br/> <b>WOODLAND DESIGN SERVICES</b><br/>         2443 14TH STREET, NW • WASHINGTON, D.C.<br/>         ARCHITECTURAL PLANS • ELECTRICAL SERVICES CONSULTING<br/>         800.360.74.2242 FAX: 202.22.0880 www.wdsdesign.com</p> | <p>engineering consultant</p> | <p>REV. NO. 1<br/>         DATE 11/11/11<br/>         BY [Signature]</p> |
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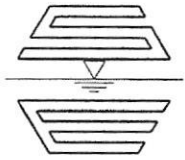




SECOND FLOOR PLAN

*2 Floor  
4 Bedrooms  
1 1/2 Bath*

|  |  |   |                        |                  |
|--|--|---|------------------------|------------------|
|  | SECOND FLOOR ARCHITECTURAL PLAN<br>A NEW RESIDENCE AT<br>12942 BRIGHTONDAM ROAD • CLARKSVILLE, MD. | architectural designer<br><b>W.D.S.</b><br>WOODLAND DESIGN SERVICES<br>920 PEABODY STREET, N.W. #12 • Washington, D.C. 20011<br>ARCHITECTURAL PLANS-TECHNICAL SERVICES-CONSULTING<br>VOICE 202.716.7343 E-MAIL woodland@wds.com | engineering consultant | DATE<br>APPROVED |
|  | PROJECT NO.<br>DRAWING NO.<br>SCALE<br>DATE  | REVISIONS   | COMMENTS               | CHECKED BY       |



11130 Dovedale Court, Suite 200  
Marriottsville, MD 21104  
Website: [www.sillengineering.com](http://www.sillengineering.com)

Office: 443-325-5076  
Fax: 410-696-2022  
Email: [info@sillengineering.com](mailto:info@sillengineering.com)  
Civil Engineering for Land Development

## SILL ENGINEERING GROUP, LLC

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February 13, 2018

Howard County Department of Planning and Zoning  
Howard County Health Department via  
Howard County Department of  
Inspections, Licenses and Permits  
3430 Courthouse Drive  
Ellicott City, MD 21043  
3430 Courthouse Drive  
Ellicott City, Maryland 21043

Attn: Steve Rolls/Robert Bricker

Re: Building Permit No: B-16003304  
12942 Brighton Dam Road  
Updated Plot Plan

RECEIVED  
FEB 13 2018  
LICENSES & PERMITS  
DIVISION

Dear Mr. Rolls:

Please accept this revised plot plan to accompany building permit number B-16003304

The Health Department has requested a revision the septic design. This plan shows the revised septic system design that moves the location of the proposed septic tanks. The two (2) of the proposed drywells designed to treat stormwater have been removed due to the change. The remaining five (5) drywells have increased in size to meet the required treatment. Revised SWM calculations are attached.

Thank you for your review of this updated building permit plot plan. Should you have any questions or comments regarding this matter, please do not hesitate to contact this office.

Sincerely,  
SILL ENGINEERING GROUP, LLC

A handwritten signature in cursive script that reads "Anita E. Allen".

Anita E. Allen

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

Date: 2/12/2018

To: ~~CATHY ANEST~~ DDCR DPZ/DED/HEALTH  
(Person's Name and Division)

From: MIKE O'BRIEN, SILL ENGINEERING GROUP (443) 325 5076  
(Your Name, Company Name and Telephone Number)

Subject: Project name KURICAH PROPERTY

Project site address 12942 BRIGHTON DAM RD CLARKSVILLE

Permit # B16003304 SDP # \_\_\_\_\_

Other information pertinent to this project \_\_\_\_\_

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 **OK** *REVISED S/M, RELOCATED SEPTIC*
- Copies of REVISED PLOT PLAN (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 \_\_\_\_\_

**Contact Person Information: (Required)**

MIKE O'BRIEN  
Please Print Name

Telephone No: 443 325 5076

E-Mail Address: MIKE@SILLENGINEERING.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]

*HEALTH*

**RECEIVED**  
FEB 13 2018

1107 INSPECTION



## Bricker, Robert

---

**From:** Bricker, Robert  
**Sent:** Wednesday, January 25, 2017 11:05 AM  
**To:** rkurichh.mdllc@gmail.com  
**Subject:** B16003304 - 12942 Brighton Dam Road\_status

Mr. Kurichh,

Building Permit B16003304 for the construction of your residence at 12942 Brighton Dam Road remains 'On Hold'. The Health Department has not yet received the Well Completion Report from Allied Environmental. The Health Department may not approve new construction without the knowledge that a reliable source of drinking water is available for the property. This is why possession of the formal document mandated by the State, in essence the Well Completion Report, is essential. Health Department personnel have made several efforts to communicate with Allied Environmental, the last attempt being on January 19.

As of today (January 25<sup>th</sup>), Allied Environmental has not called in to report that they will be conducting a yield test. This is very important as the Health Department is requiring that water samples be obtained at yield test and those samples analyzed for radium, sodium, chlorides, and total dissolved solids (TDS). Also, the yield test is essential for finishing the Well Completion Report. The yield test data are submitted to the Health Department with the Well Completion Report.

Robert Bricker, REHS/RS, L.E.H.S.

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**From:** Bricker, Robert  
**Sent:** Wednesday, January 18, 2017 9:35 AM  
**To:** rkurichh.mdllc@gmail.com  
**Subject:** FW: FW: B16003304 - 12942 Brighton Dam Road

Mr. Kurichh,

I have approved the BAT Plan associated with the proposed construction of a single-family dwelling at 12942 Brighton Dam Road. Building permit proposal B16003304 remains 'On Hold' by the Health Department as we have not yet received a Well Completion Report for the installation of a well on the parcel.

Robert Bricker, REHS/RS, L.E.H.S.

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**From:** Bricker, Robert  
**Sent:** Wednesday, January 04, 2017 9:09 AM  
**To:** 'Rajeev Kurichh'  
**Subject:** RE: FW: B16003304 - 12942 Brighton Dam Road

Mr. Kurichh,

Building Permit proposal B16003304 remains 'On Hold' by the Health Department. Following are the issues I have identified:

1. The Well Completion Report must be submitted to the Health Department and the well construction described thereon must be approved by an Environmental Sanitarian. I am aware that the well is being drilled at this time.
2. The BAT Site Plan, i.e. the septic system installation plan, must be submitted and approved. I sent comments concerning plan content to the engineer on December 22.

Respectfully,

Robert Bricker, REHS/RS, L.E.H.S.

**From:** Rajeev Kurichh [mailto:rkurichh.mdllc@gmail.com]  
**Sent:** Wednesday, January 04, 2017 8:12 AM  
**To:** Bricker, Robert  
**Subject:** Fwd: FW: B16003304 - 12942 Brighton Dam Road

Good Morning Mr. Bricker,

I was just following up on the permit status for our new house construction permit application. The relevant information is as follows:

Address: 12942 Brighton Dam Road, Clarksville, MD 21029  
Permit App #: B160033004  
Status: On hold at the Health Department

I would greatly appreciate it if you could ascertain if the above referenced building permit is still on hold. I was unable to navigate the online system provided herein.

Thank you for your help in this matter.

Sincerely,

Rajeev Kurichh  
26 Blackburn Court  
Burtonsville, MD 20866  
301.524.4148

----- Forwarded message -----

From: **Rajeev Kurichh** <rkurichh.mdllc@gmail.com>  
Date: Mon, Nov 21, 2016 at 9:19 AM  
Subject: Re: FW: B16003304 - 12942 Brighton Dam Road  
To: "Bricker, Robert" <RBricker@howardcountymd.gov>

Good Morning Mr. Bricker,

I sincerely apologize. I forgot to attach the copies of the floorplans. Attached please find the floorplans for 12942 Brighton Dam Road.

Please let me know if you require any additional information.

Sincerely,

Rajeev Kurichh  
301.524.4148

On Mon, Nov 21, 2016 at 8:50 AM, Bricker, Robert <RBricker@howardcountymd.gov> wrote:

Mr. Kurichh,

The file that you attached is the file that I sent with comments and requests for more information such as floor plans. As I am forwarding your message back to you, you see the file that you attached.

Please send floor plans so that I may review them.

Robert Bricker, REHS/RS, L.E.H.S.

**From:** Rajeev Kurichh [mailto:[rkurichh.mdllc@gmail.com](mailto:rkurichh.mdllc@gmail.com)]

**Sent:** Friday, November 18, 2016 9:10 AM

**To:** Bricker, Robert

**Subject:** B16003304 - 12942 Brighton Dam Road

Good Morning Mr. Brinker,

Pursuant to your letter dated August 15, 2016 [see attached], attached please find the architectural floor plans for the above referenced permit.

I will have the engineers [Sill Engineering] send over the septic installation plan for the project.

Please feel free to give me a call at [301.524.4148](tel:301.524.4148) should you require any additional information for your evaluation.

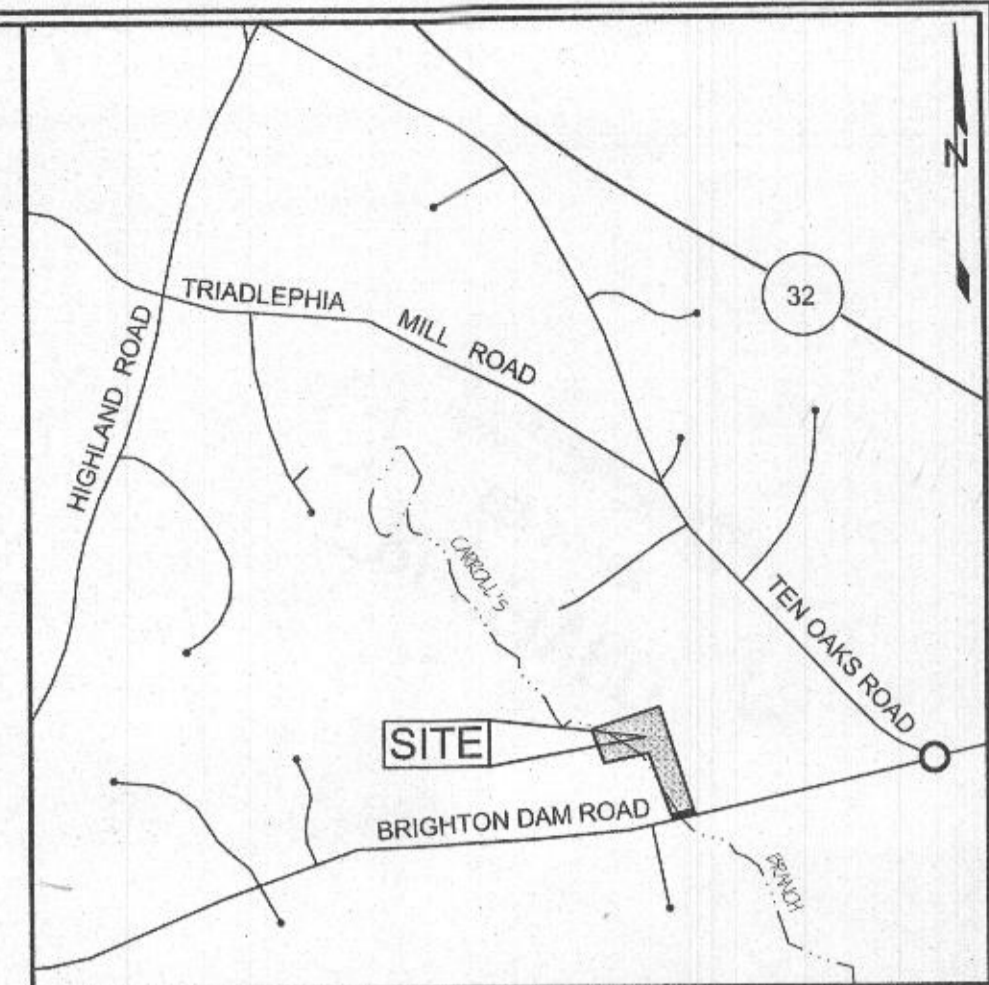
Sincerely,

Rajeev Kurichh  
[301.524.4148](tel:301.524.4148)

| BENCHMARKS |            |              |           |   |
|------------|------------|--------------|-----------|---|
| NUMBER     | NORTHING   | EASTING      | ELEVATION | DESCRIPTION   |
| 34E5       | 559,538.08 | 1,322,535.82 | 460.445   | 7.2' NORTH-WEST FROM VERIZON BOX, 11.9' SOUTH OF CENTER OF BRIGHTON DAM RD. |
| 34E4       | 559,489.75 | 1,320,470.71 | 498.454   | 5.6' NORTH FROM EDGE OF BRIGHTON DAM RD, 0.45 MILES EAST OF HIGHLAND RD.    |

### LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- DIRECTION OF FLOW
- EXISTING TREELINE
- PROPOSED TREELINE
- SOIL BOUNDARY
- EX. APPROXIMATE WELL LOCATION
- LIMIT OF DISTURBANCE
- PROPOSED ROOF LEADER (4" PVC TYP. WITH DOWNSPOUT)
- PROPOSED BIORETENTION FACILITY (M-6)
- HYDROLOGIC SOIL GROUP 'D'
- HYDROLOGIC SOIL GROUP 'C'
- PROPOSED WELL LOCATION
- PROPOSED 1.5" WHC
- PROPOSED DRAINAGE AREA
- STREAM BUFFER
- WETLANDS
- WETLANDS BUFFER
- EXISTING SOIL BORING



REVISED  
Date: 2/13/18  
Comments: B16003304  
Revised SWM, Relocated Septic

| STORMWATER MANAGEMENT PRACTICES |                         |                       |                                 |  |
|---------------------------------|-------------------------|-----------------------|---------------------------------|--|
| PARCEL                          | ADDRESS                 | DRY WELL M-5 (NUMBER) | MICRO-BIORETENTION M-6 (NUMBER) | NON-ROOFTOP DISCONNECTION N-2 (NUMBER) |
| 269                             | 12942 BRIGHTON DAM ROAD | 5                     | 1                               | 1                                      |

### GENERAL NOTES

- SUBJECT PROPERTY ZONED RR-DEO PER 02/02/04 COMPREHENSIVE ZONING PLAN.
- TOTAL AREA OF PROPERTY = 7.0 AC ±.
- PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
- THIS AREA DESIGNATES A PRIVATE SEWERAGE AREA, OF AT LEAST 10,000 SF AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS 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 SEWERAGE AREA. RECORDATION OF A MODIFIED SEWERAGE AREA SHALL NOT BE NECESSARY.
- THE BOUNDARY SHOWN HEREON IS BASED ON DEED PLOT AND HOWARD COUNTY TAX MAP INFORMATION. THE KURICHH PROPERTY WAS FIELD-SURVEYED BY SHAMBERGER & LANE INC. IN AUGUST 2014. OFFSITE TOPOGRAPHY SHOWN HEREON IS HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 2004.
- PROPERTY ADDRESS: 12942 BRIGHTON DAM ROAD, CLARKSVILLE 21029
- REFERENCES: LIBER 15960, FOLIO 334
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- ANY CHANGES TO A PRIVATE SEWERAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN-GRADE OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWERAGE EASEMENTS HAVE BEEN LOCATED USING AVAILABLE RECORD DRAWINGS OR HAVE BEEN FIELD LOCATED.
- GEOTECHNICAL INFORMATION HAS BEEN TAKEN FROM THE US DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCE CONSERVATION SERVICE, WEB SOIL SURVEY WEBSITE AND FIELD INVESTIGATIONS.

### SOILS LEGEND

| SYMBOL | NAME / DESCRIPTION                      | GROUP | 'K' FACTOR |
|--------|---|-------|------------|
| GgB    | GLENELG LOAM, 3-8% SLOPES               | C     | 0.28       |
| GgC    | GLADSTONE LOAM, 8-15% SLOPES            | B     | 0.28       |
| BaA    | BAILE SILT LOAM, 0-3% SLOPES            | C     | 0.37       |
| GnB    | GLENVILLE-SALE SILT LOAMS, 0-8% SLOPES  | C     | 0.43       |
| Ha     | HATBORO-CORDORUS SILT LOAM, 0-3% SLOPES | D     | 0.37       |

- NOTES:
- SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY, SOIL GRID 7, SUB-GRID 292.
  - HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

### SHEET INDEX

| SHEET NO. | DESCRIPTION                   |
|-----------|-------------------------------|
| 1         | STORMWATER MANAGEMENT PLAN    |
| 2         | STORMWATER MANAGEMENT DETAILS |

### OWNER/DEVELOPER

MR. RAJEEV KURICHH  
26 BLACKBURN CT.  
BURTONSVILLE, MARYLAND 20886  
(301) 524-4148  
(301) 474-6358 (FAX)

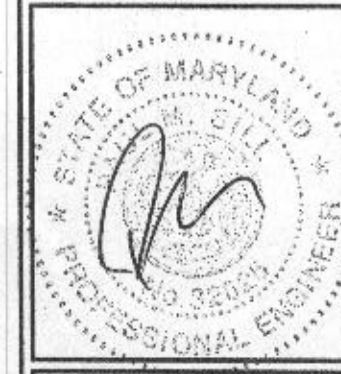
### STORMWATER MANAGEMENT PLAN

#### KURICHH PROPERTY

PARCEL 269  
BUILDING PERMIT NO. 16003304

TAX MAP 34 GRID 10  
5TH ELECTION DISTRICT

PARCEL 269  
HOWARD COUNTY, MARYLAND



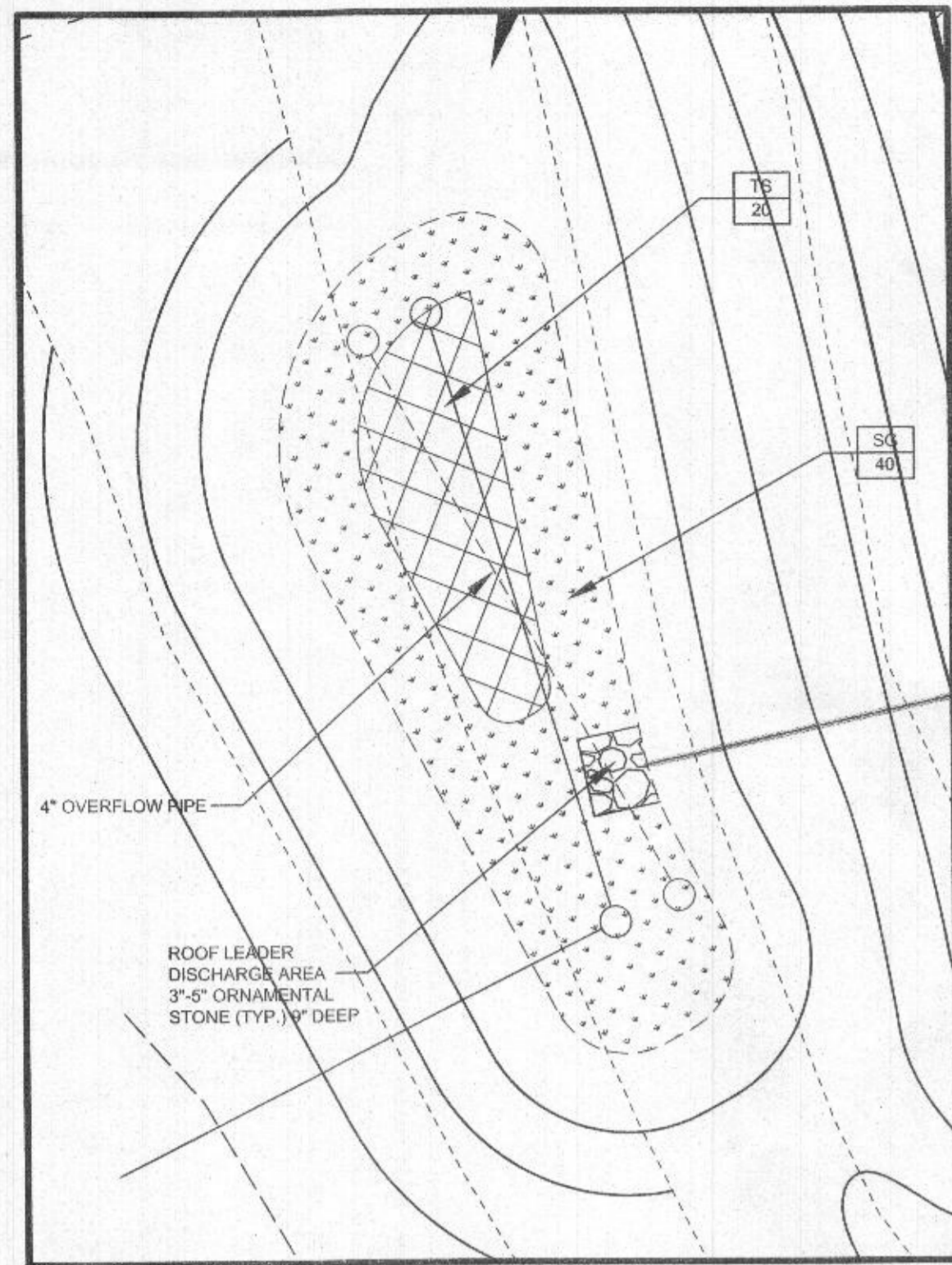
**SILL ENGINEERING GROUP, LLC**  
11130 Dovedale Court, Suite 200  
Marrattsville, Maryland 21104  
Phone: 443.325.5076  
Fax: 410.696.2022  
Email: info@sillengineering.com  
Civil Engineering for Land Development

DESIGN BY: PS  
DRAWN BY: KZ/AEA  
CHECKED BY: PS  
SCALE: AS SHOWN  
DATE: FEBRUARY 13, 2018  
PROJECT #: 15-006  
SHEET #: 1 of 2

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. 32025, EXPIRATION DATE: JUNE 20, 2019



PLAN VIEW  
SCALE: 1"=50'

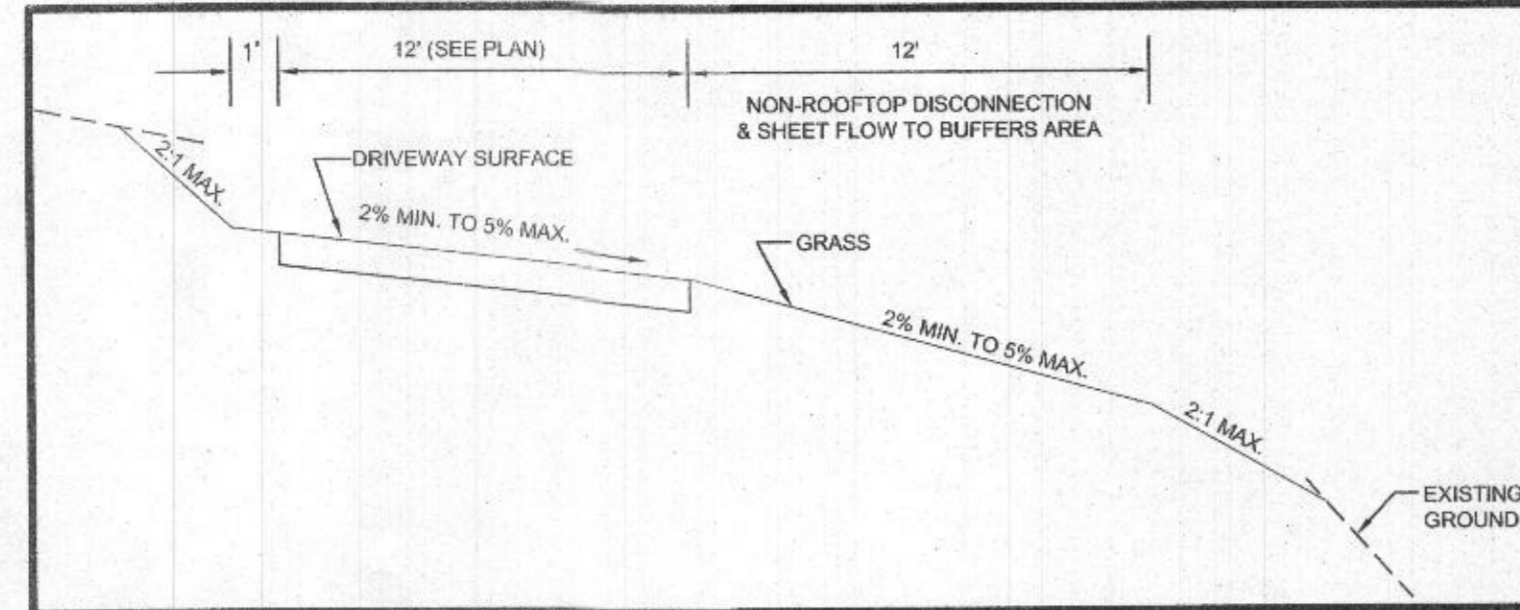


MICRO-BIoretention Planting Plan

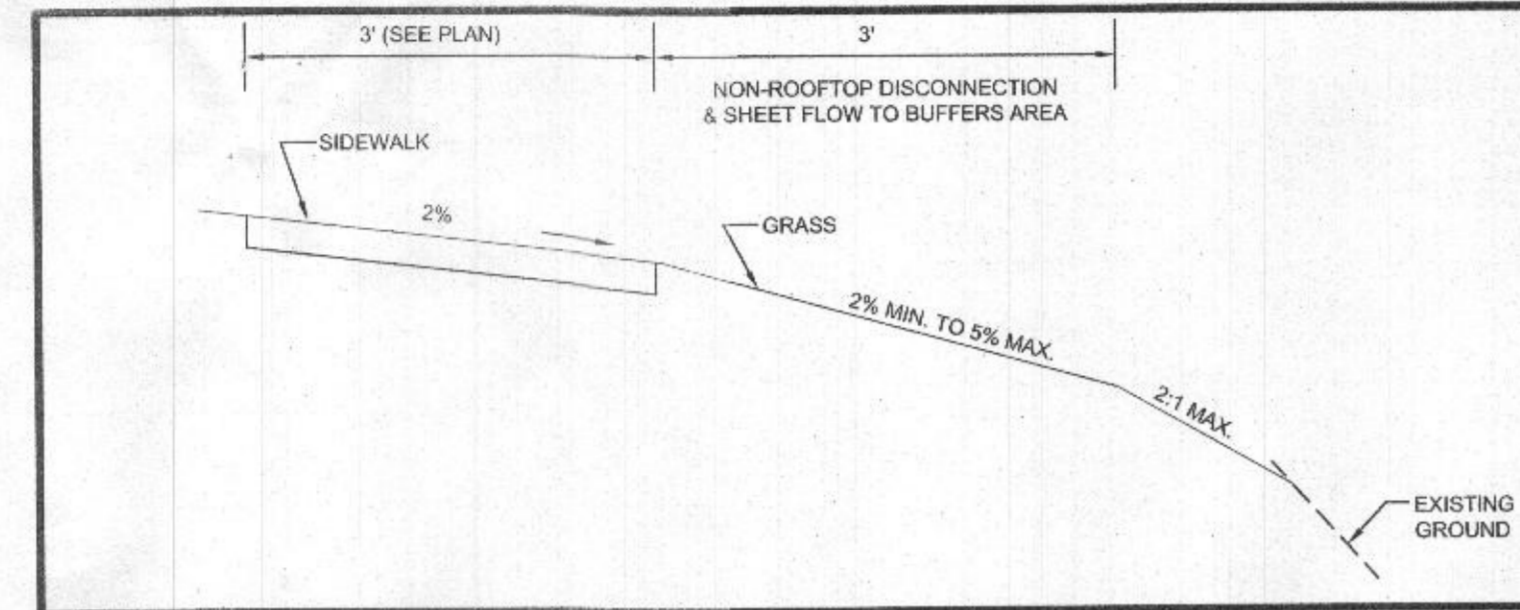
LEGEND  
 TS = PLANT SYMBOL NUMBER

| KEY | PLANT NAME                               | MIN. SIZE | BMP QUANTITY | NOTES               | SYMBOL |
|-----|--|-----------|--------------|---------------------|--------|
| SG  | SWITCH GRASS ( <i>Panicum virgatum</i> ) | 1 qt      | 40           | Grass @ 3' c/c min. |        |
| TS  | TUSsock SEDGE ( <i>Carex stricta</i> )   | 1 qt      | 20           | @ 3' c/c min.       |        |

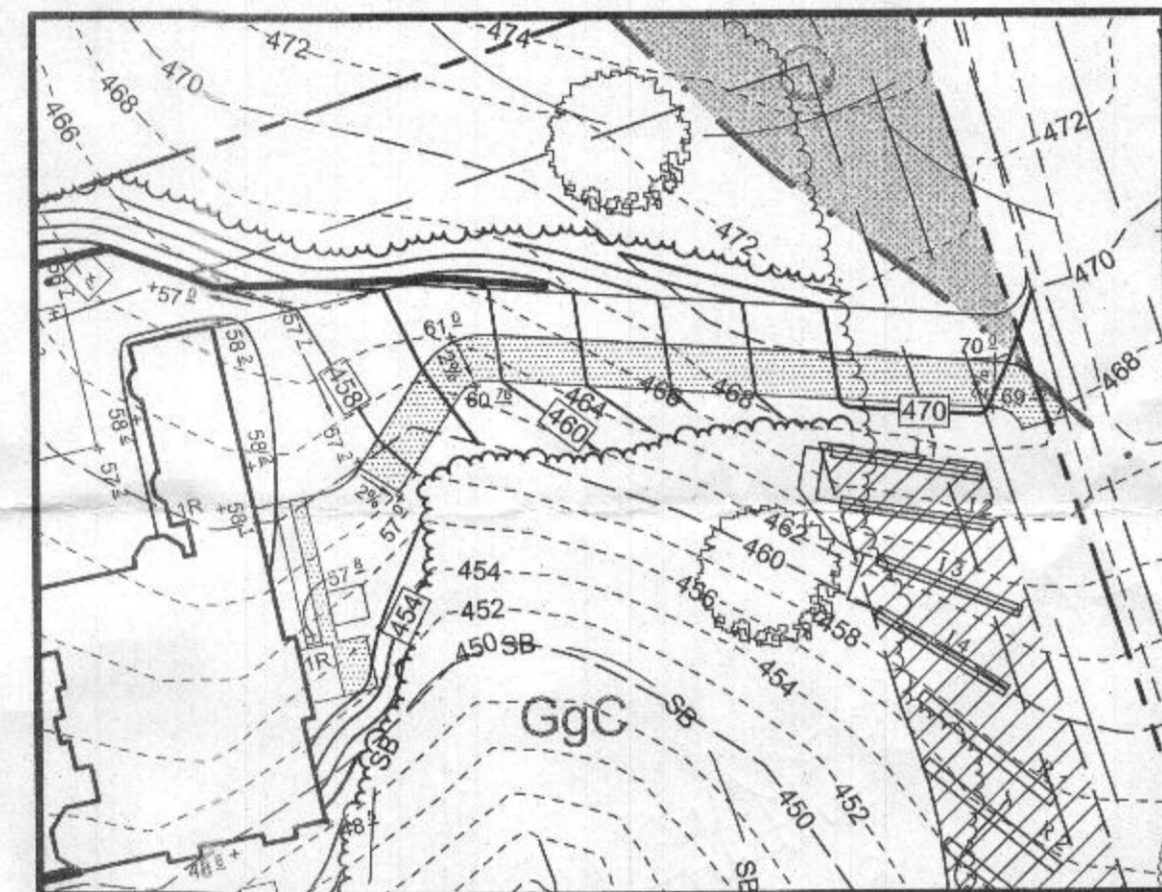
- PLANTING SPECIFICATIONS:  
 1. PLANT INSTALLATION SHALL BE PER MDE SPECIFICATIONS IN THE 2000 STORMWATER DESIGN MANUAL.
- ADDITIONAL SPECIFICATIONS:  
 1. PLANT BMP LEVEL SURFACE AS SHOWN IN THE ABOVE TABLE WITH AN EVEN DISTRIBUTION DENSITY. STABILIZE BMP SIDE SLOPES WITH PERMANENT GRASS SEED PER NRCS SPECIFICATIONS. SIDE SLOPE PERMANENT GRASS AREAS SHALL HAVE 3" OF CLEAN TOPSOIL ON TILLED SUB-SOIL AND CURLEX MATTING. WATER AS NECESSARY UNTIL ESTABLISHED VEGETATION.  
 2. PLANT MATERIAL SHALL CONFORM TO THE U.S. STANDARD FOR NURSERY STOCK BY THE AMERICAN ASSOCIATION OF NURSERYMEN.  
 3. PLANTING PERENNIALS & GRASSES: ROOT SYSTEMS SHALL BE SPLIT OR CRUMBLED. POTTED PLANTS SHALL BE SET SO THAT THE TOP OF THE POT IS EVEN WITH EXISTING GRADE. TREAT THE MULCHED AND PLANTED AREA WITH A PRE-EMERGENT HERBICIDE.  
 4. ALL PLANTS MUST BE THOROUGHLY AND REGULARLY WATERED PRIOR TO ACCEPTANCE.



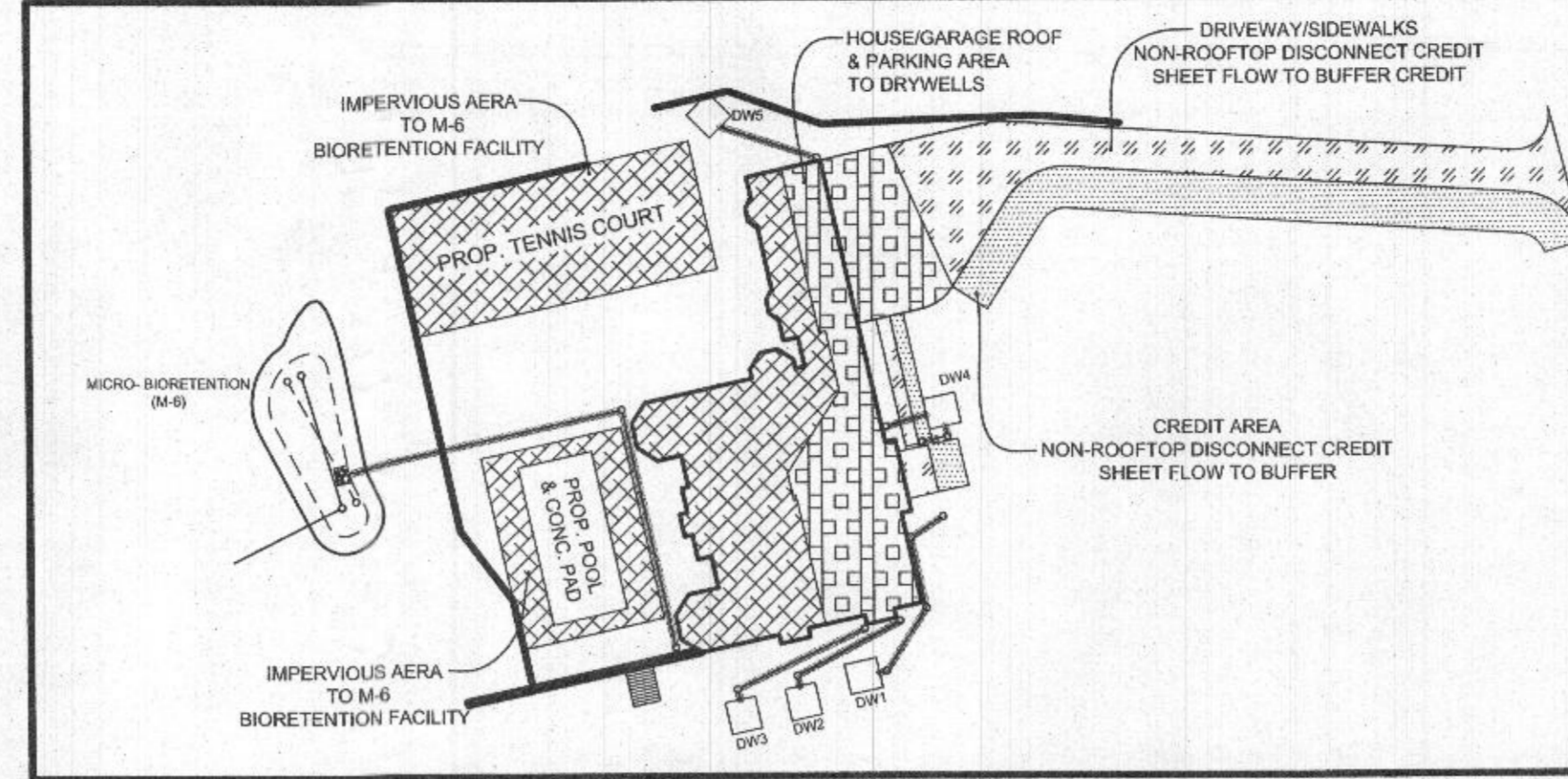
DRIVEWAY Typical Section



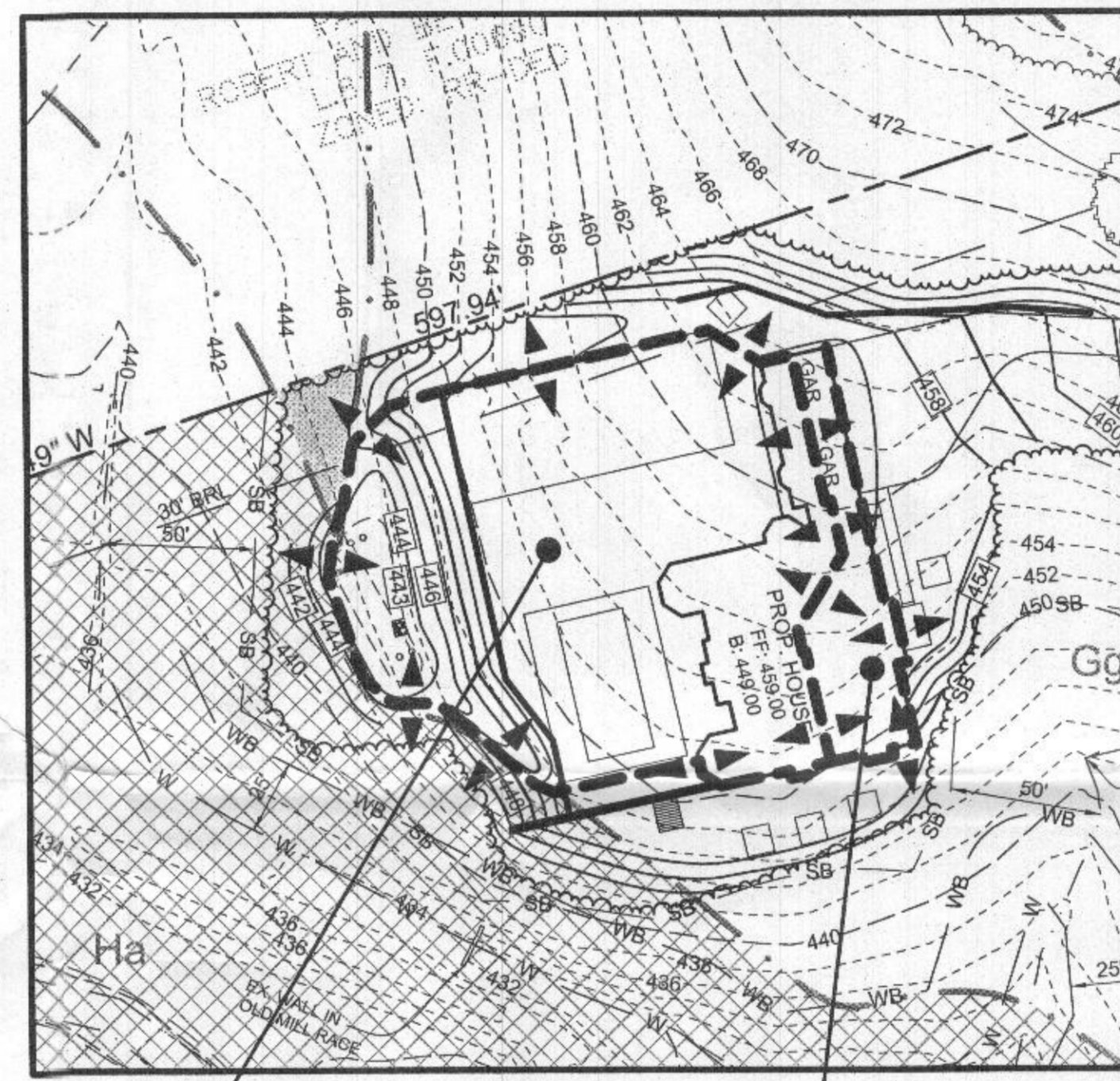
FRONT SIDEWALK Typical Section



NON-ROOFTOP RUNOFF DISCONNECT DETAIL

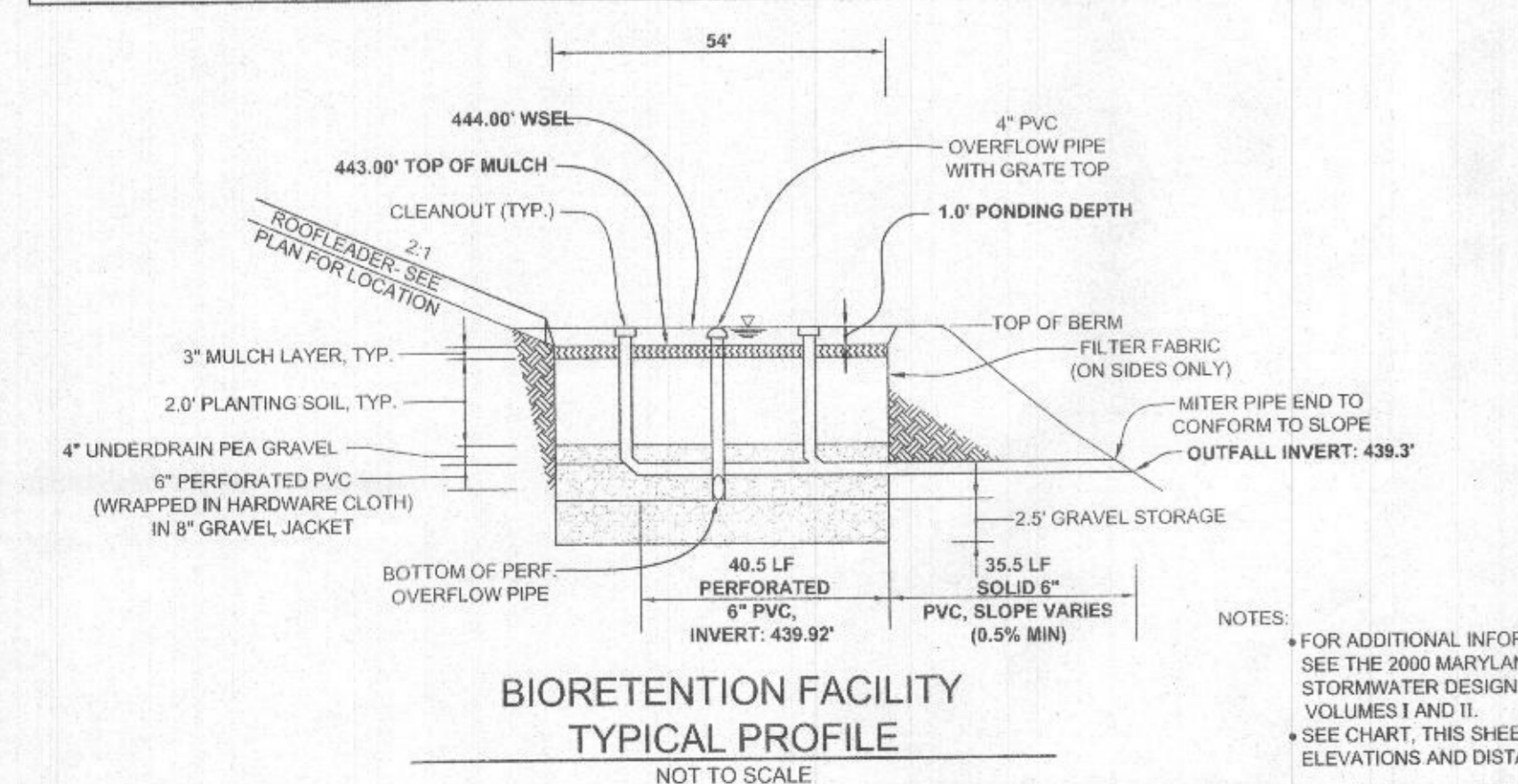


IMPERVIOUS TREATMENT DETAIL



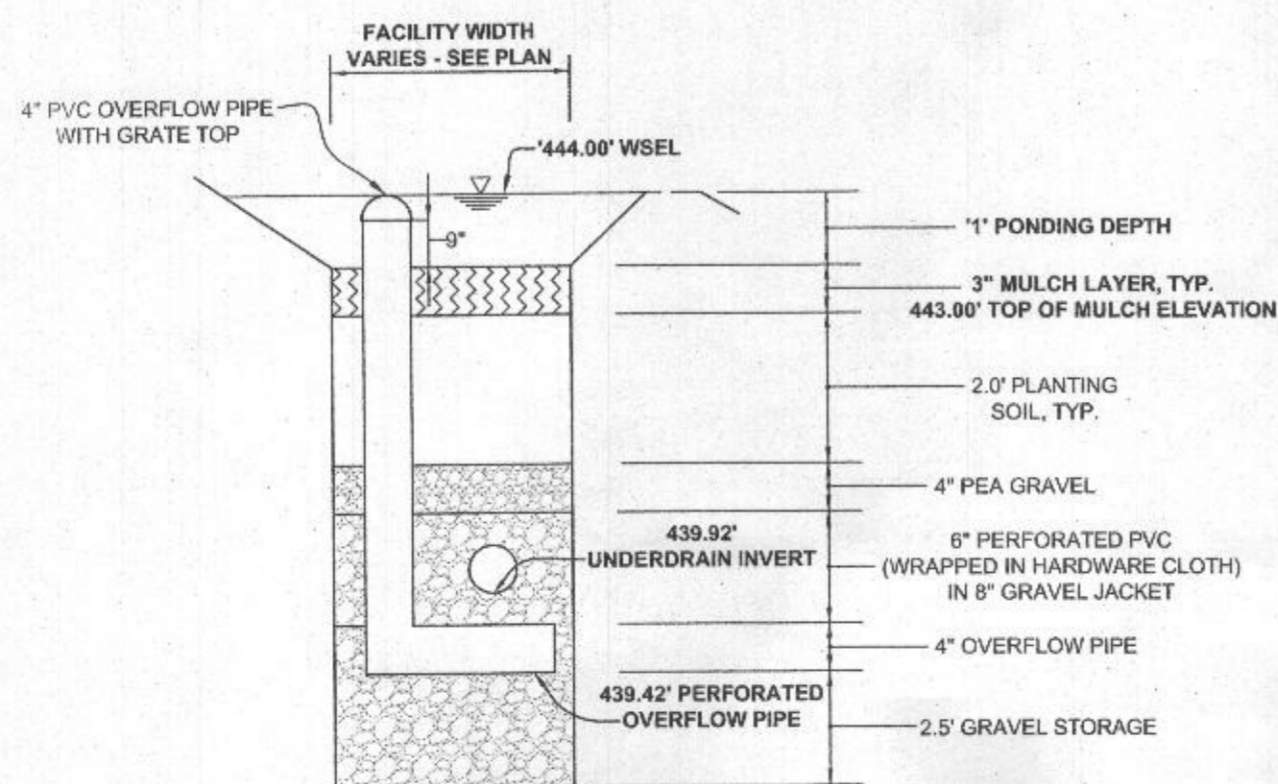
DRAINAGE AREA MAP

| MATERIAL   | SPECIFICATION   | SIZE   | NOTES   |
|--|---|--|---|
| PLANTINGS  | SEE SCHEDULE LIST THIS SHEET  |  | PLANTINGS ARE SITE-SPECIFIC. SEE PLANT LIST THIS SHEET  |
| PLANTING SOIL (2'-4" DEEP)                           | LOAMY SAND (60% - 65%) & COMPOST (35%-40%)<br>OR<br>SANDY LOAM (30%), COARSE SAND (30%) & COMPOST (40%) | N/A  | USDA SOIL TYPES LOAMY SAND OR SANDY LOAM; CLAY CONTENT < 5%   |
| ORGANIC CONTENT                                      | MIN. 10% BY DRY WEIGHT (ASTM-D-2974)  |  | AGED 6 MONTHS, MINIMUM, NO PINE OR WOOD CHIPS   |
| MULCH  | SHREDDED HARDWOOD   |  |   |
| PEA GRAVEL, DIAPHRAGM AND CURTAIN DRAIN, IF REQUIRED | PEA GRAVEL: ASTM-D-448<br>ORNAMENTAL STONE: WASHED COBBLES  | PEA GRAVEL: NO. 8 OR NO. 9 (1/8" TO 3/8")<br>STONE: 2" TO 5" |   |
| GEOTEXTILE   |   |  | PE TYPE 1 NONWOVEN  |
| UNDERDRAIN GRAVEL                                    | AASHTO M-43   | NO. 57 OR NO. 6 AGGREGATE (3/8" TO 3/4")                     |   |
| UNDERDRAIN PIPING                                    | F 758, TYPE PS 28 OR AASHTO M-278   | 4" TO 6" RIGID SCHEDULE 40 PVC OR SDR35                      | SLOTTED OR PERFORATED PIPE, 3/8" PERF. @ 6" ON CENTER, 4 HOLES PER ROW; MINIMUM OF 3" OF GRAVEL OVER PIPES; NOT NECESSARY UNDERNEATH PIPES. PERFORATED PIPE SHALL BE WRAPPED WITH 1/4" GALVANIZED HARDWARE CLOTH. |



BIoretention Facility Typical Profile

NOTES:  
 \*FOR ADDITIONAL INFORMATION, SEE THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I AND II.  
 \*SEE CHART, THIS SHEET, FOR ELEVATIONS AND DISTANCES



BIoretention Facility Typical Section

| WELL NO. | VOLUME REQUIRED | VOLUME PROVIDED | SIZE                |
|----------|-----------------|-----------------|---------------------|
| 1        | 142.8 CF        | 145 CF          | 9.5'X9.0'X4.25'DEEP |
| 2        | 142.8 CF        | 145 CF          | 9.5'X9.0'X4.25'DEEP |
| 3        | 142.8 CF        | 145 CF          | 9.5'X9.0'X4.25'DEEP |
| 4        | 142.8 CF        | 145 CF          | 9.5'X9.0'X4.25'DEEP |
| 5        | 142.8 CF        | 145 CF          | 9.5'X9.0'X4.25'DEEP |
| TOTAL    | 714 CF          | 725 CF          |                     |

DRY WELL CHART

OPERATION AND MAINTENANCE SCHEDULES PRIVATELY OWNED AND MAINTAINED STORMWATER MANAGEMENT FACILITIES

THE PROPERTY OWNER IS RESPONSIBLE FOR THE MAINTENANCE OF ALL STORMWATER MANAGEMENT PRACTICES. THESE PRACTICES INCLUDE ONE (1) MICRO-BIoretention BMP/FACILITY IN THE REAR OF THE HOUSE, FIVE (5) DRYWELLS ADJACENT TO THE FRONT AND SIDES OF THE HOUSE, AND THE NON-ROOFTOP DISCONNECT/SHEET FLOW TO BUFFER AREA IN THE FRONT OF THE HOUSE AND ALONG THE SOUTH SIDE OF THE DRIVEWAY.

THE STORMWATER MICRO-BIoretention FACILITY SHALL BE INSPECTED AT LEAST TWICE PER YEAR (ONCE EACH IN THE SPRING AND FALL) AND AFTER HEAVY STORMS. SPECIFIC MAINTENANCE ITEMS ARE LISTED AS FOLLOWS:

- MICRO-BIoretention FACILITY:**
1. 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 II, TABLE A.4.1 AND 2.
  2. THE OWNER SHALL PERFORM A PLANT INSPECTION 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 OR REMOVE DEFICIENT STAKES AND WIRES.
  3. 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.
  4. THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.

- DRY WELLS:**
1. THE OWNER SHALL INSPECT THE MONITORING WELLS AND STRUCTURES ON A QUARTERLY BASIS AND AFTER EVERY HEAVY STORM EVENT.
  2. THE OWNER SHALL RECORD THE WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS OVER A PERIOD OF SEVERAL DAYS TO INSURE TRENCH DRAINAGE.
  3. THE OWNER SHALL MAINTAIN A LOG BOOK TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
  4. WHEN THE FACILITY BECOMES CLOGGED SO THAT IT DOES NOT DRAIN DOWN WITHIN A SEVENTY-TWO (72) HOUR TIME PERIOD, CORRECTIVE ACTION SHALL BE TAKEN.
  5. THE MAINTENANCE LOG BOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
  6. ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION FACILITY HAVE BEEN VERIFIED, THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.

**DISCONNECTION OF NON-ROOFTOP RUNOFF:**  
 MAINTENANCE OF AREAS RECEIVING DISCONNECTED RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE OWNER SHALL ENSURE THE AREAS RECEIVING RUNOFF ARE PROTECTED FROM FUTURE COMPACTION OR DEVELOPMENT OF IMPERVIOUS AREA. IN COMMERCIAL AREAS, FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.

- DRYWELL & ROOF LEADER/DOWNSPOUT NOTES**
1. ALL CONSTRUCTION TO FOLLOW HOWARD COUNTY AND MDE SPECIFICATIONS IN MDE 2000 SWM DESIGN MANUAL.
  2. DRYWELLS SHALL BE 10" MIN. FROM HOUSE/GARAGE FOUNDATION.
  3. SAND SHALL MEET ASTM C-33 AND CLEAN AND FREE OF DEBRIS.
  4. AGGREGATE SHALL BE 1.5" TO 3" ASTM D448, CLEAN AND WASHED, AND FREE OF DEBRIS.
  5. PVC PIPE OUTSIDE DRYWELL: 4" SCHEDULE 40 SOLID PIPE WITH MINIMUM SLOPE OF 0.5% OR AS PER PLAN. PVC PIPE IN DRYWELL: 6" SCHEDULE 40 PERFORATED OR SLOTTED. PERFORATIONS SHALL BE 3/8" DIAMETER LOCATED 6" ON CENTER WITH A MINIMUM OF FOUR HOLES PER ROW. PIPE SHALL BE WRAPPED WITH A 1/2" (NO. 4 OR 4X4) GALVANIZED HARDWARE CLOTH (WELDED WIRE MESH).
  6. CONTRACTOR SHALL DRILL TWO (2) 3/8" HOLES IN THE CLEANOUT CAP TO ALLOW "BREATHING"/AIR ESCAPE.
  7. NOTIFY THE ENGINEER IF GROUNDWATER OR ROCK IS DISCOVERED.
  8. A LEAF SCREEN SHALL BE INSTALLED AS PER THE HOWARD COUNTY DETAIL (D-9.01) OR AS PER MDE (GUTTER SCREEN). GUTTER GUARDS ARE ALSO ACCEPTABLE. SCREENS SHALL BE MADE OF PREVENTING PINE NEEDLES AND LEAVES FROM ENTERING THE DRYWELL. ALTERNATE SCREENS CAN BE USED IF ACCEPTABLE TO THE HOWARD COUNTY INSPECTOR.
  9. PLACE DRYWELLS AT EACH DOWNSPOUT AS SHOWN ON PLAN VIEW. HOWEVER, SHOULD MODIFICATIONS BE MADE FOR EACH ROOF "DRAINAGE AREA", THE NUMBER OF DRY WELLS SHALL BE EQUAL TO THE ROOF AREA BEING TREATED (2,836 S.F.) + 500, ROUND UP TO THE NEXT HIGHEST INTEGER. (e.g., 2,836 S.F. ROOF AREA NEEDS 2,836/500 = 5.7 ROUNDED UP TO 6 DRYWELLS). COORDINATE DRYWELL MODIFICATIONS WITH THE HOWARD COUNTY INSPECTOR AND THE ENGINEER.
  10. THE ROOF LEADER INVERT CAN BE ADJUSTED TO RECEIVE DRAINAGE FROM NEAR-BY DOWNSPOUTS. THE ROOF LEADERS SHALL BE DESIGNED BY OTHERS PER HCCO BUILDING CODE.
  11. INSTALL A SINGLE SEPARATE OBSERVATION WELL (WITH IDENTICAL CONSTRUCTION TO CLEAN-OUT AS SHOWN) IF AN NDS POP-UP EMITTER IS USED.

- GENERAL STORMWATER MANAGEMENT NOTES**
1. STORMWATER MANAGEMENT HAS BEEN PROVIDED WITH ONE (1) BIoretention FACILITY, FIVE (5) DRYWELLS AND NON-ROOFTOP/SHEET FLOW TO BUFFER CREDIT. PLEASE REFER TO THE SCOPED REPORT PREPARED BY CIVIL DESIGN SERVICES, L.C. DATED JUNE 30, 2015.
  2. ALL CONSTRUCTION SHALL MEET THE LATEST EDITION OF THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS, SMALL EARTHEN DAM SPECIFICATION MD-378, AND THE MARYLAND DEPARTMENT OF THE ENVIRONMENT'S CURRENT STORMWATER DESIGN MANUAL, OR AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CONSULT THE ENGINEER SHOULD THERE BE ANY DISCREPANCIES.
  3. UTILITIES ARE NOT EXPECTED IN THE PROPOSED AREA OF CONSTRUCTION. CONTRACTOR SHALL TEST PIT ALL KNOWN EXISTING UTILITIES TO VERIFY, SIZE, SHAPE, LOCATION, AND TYPE PRIOR TO PERFORMING CONSTRUCTION. ANY UTILITY DAMAGED DUE TO CONSTRUCTION MUST BE REPAIRED IMMEDIATELY TO RESOLVE THE SITUATION. IF THE CONTRACTOR MAKES FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
  4. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION.
  5. CONTRACTOR SHALL NOTIFY MISS UTILITY 1-800-257-7777 AND THE HOWARD COUNTY DEPARTMENT OF INSPECTION LICENSES & PERMITS THREE (3) WORKING DAYS BEFORE BEGINNING CONSTRUCTION.
  6. THE MICRO-BIoretention BMP MAY BE GRADED, HOWEVER, THE PLANTING SOIL IN THE BMP SHALL NOT BE INSTALLED UNTIL ALL UPSTREAM AREAS HAVE BEEN STABILIZED (i.e., THICK GRASS COVER, OR PAVED).
  7. THE STORMWATER MANAGEMENT BIoretention BMP FOR THIS PROJECT WILL BE PRIVATELY OWNED AND MAINTAINED.

- BMP BIoretention FACILITY NOTES AND SPECIFICATIONS**
1. REFER TO THE LATEST MARYLAND SWM DESIGN MANUAL FOR BIoretention SPECIFICATIONS FOR INFORMATION NOT LISTED HEREIN AND FOR ADDITIONAL INFORMATION.
  2. THE BIoretention BMP MATERIALS ARE AS FOLLOWS:  
 PLANTING SOIL: PER PLANTING SOIL SPECIFICATIONS OUTLINED IN MDE'S 2000 SWM ANNUAL APPENDIX B.4. DO NOT MECHANICALLY COMPACT PLANTING SOIL, BUT CAN BE "WATERED" TO FACILITATE SETTLING.  
 PVC UNDERDRAIN PIPE OUTSIDE BMP: SCHEDULE 40 SOLID PIPE WITH MINIMUM SLOPE OF 0.5% OR AS PER PLAN.  
 PVC UNDERDRAIN IN BMP: SCHEDULE 40 AND PERFORATED WITH 3/8" HOLES. WRAP UNDERDRAIN WITH GALVANIZED 1/4" HARDWARE CLOTH (WELDED WIRE MESH). PROVIDE 4 - 3/4" HOLES EVENLY SPACED AROUND THE PIPE CIRCUMFERENCE. SPACE PERFORATIONS ALONG PIPE AT 6" ON CENTER. ADJACENT SETS OF PERFORATIONS SHALL BE STAGGERED AT 45°. PERFORATIONS MUST TOTAL 3.5 sq. inch MIN. PER LF OF PIPE.  
 STONE AGGREGATE: MSHA SPECIFICATIONS AS SHOWN ON TYPICAL SECTION; AGGREGATE MUST WASHED, AND BE FREE OF FINES, SAND, DIRT & DEBRIS.  
 GEOTEXTILE: PER MDE SWM MANUAL, OR MIRAFI 140N.  
 MULCH: SHREDDED, WELL-AGED (6-12 MONTHS) HARDWOOD MULCH; NO WOOD CHIPS OR PINE MULCH.  
 3. THE CONTRACTOR SHALL UNDER NO CIRCUMSTANCES ALLOW SURFACE DRAINAGE INTO THE MICRO-BIoretention BMPs UNTIL ALL UPSTREAM AREAS HAVE BEEN STABILIZED (i.e., PAVED, OR HAVE WELL-ESTABLISHED VEGETATION).  
 4. BOARDS SHALL NOT BE LEFT IN PLACE DURING THE CONSTRUCTION OF THE BIoretention BMP.  
 5. GEOTEXTILE (FILTER FABRIC) SHALL BE PLACED AGAINST EXCAVATED VERTICAL SURFACES. SCARIFY EARTH PRIOR TO GEOTEXTILE PLACEMENT. INSTALL GEOTEXTILE PER MANUFACTURER'S SPECIFICATIONS/RECOMMENDATIONS AND USE A 2 FT MINIMUM OVERLAP AND NOTCH ENDS WITH A 6" MINIMUM BURY OR EQUIVALENT ANCHORING METHOD.  
 6. THE CONTRACTOR SHALL PROVIDE TO THE OWNER INDEPENDENT CERTIFICATION THAT THE PLANTING SOILS AND OTHER BIoretention MATERIALS MEET THE SPECIFICATIONS.  
 7. THE BIoretention FACILITIES SHALL BE VEGETATED (TOP LEVEL SURFACE ONLY) IN ACCORDANCE WITH THE PLANTING PLAN AND THE BMP M-6 SPECIFICATIONS IN MDE'S CURRENT STORMWATER MANAGEMENT DESIGN MANUAL.  
 8. INSTALL CLEANOUT (SOLID PVC PIPE) AS SHOWN. THE CLEANOUT TOP SHALL EXTEND 3" ABOVE TOP OF MULCH.  
 9. THE LIMIT OF THE TYPICAL SECTION (i.e., PLANTING SOIL, AGGREGATE, ETC.) IS THE ENTIRE LEVEL SURFACE OF THE BIoretention FACILITY EXCLUDING RIRAP AREAS AT ROOF LEADER DISCHARGE LOCATIONS.

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**STORMWATER MANAGEMENT DETAILS**  
 KURICHH PROPERTY  
 PARCEL 269  
 BUILDING PERMIT NO. 16003304

TAX MAP 34 GRID 10  
 5TH ELECTION DISTRICT

PARCEL 269  
 HOWARD COUNTY, MARYLAND

DESIGN BY: PS  
 DRAWN BY: KZ/AEA  
 CHECKED BY: PS  
 SCALE: AS SHOWN  
 DATE: FEBRUARY 13, 2018  
 PROJECT #: 15-006  
 SHEET #: 2 of 2

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 Civil Engineering for Land Development

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. 32025, EXPIRATION DATE: JUNE 20, 2019