

**Carroll County Maryland
Standard Stormwater Management Plan
For Single Lot Residential Construction**

BP# _____ - _____

Owner/Developer/Applicant Information

Last Name First Name M.I. (____) _____
Phone Number

Present Address (No. & Street) City/Town State Zip

Residential Lot Information

Project Address (No. & Street) City/Town State Zip

Lot Size House Length & Width Driveway Length & Width

Number & Size of Drywells _____

Number, Length or Slope of Disconnections _____

The requirements for Stormwater Management found in Chapter 151 of the Code of Local Laws and Ordinances of Carroll County will be satisfied if the following conditions and limitations are met:

1. The project is single lot residential construction.
2. There is no contiguous land undergoing development by the same owner, builder, or developer.
3. Total site impervious cover shall not exceed 15% of the lot size; and
4. Total land area disturbed during construction shall be less than 20,000 square feet. Land area that is disturbed for septic system construction may be subtracted from the total disturbed area provided it is revegetated.

Conditions

The following conditions for design and construction shall be met and maintained. Should circumstance exist preventing one or more of these conditions from being satisfied, alternative techniques may be implemented at the discretion of the Bureau of Resource Management – Environmental Inspection Division.

Design

1. All stormwater practices shall be designed and located to prevent basement seepage, erosion, flooding, or other damage to adjacent or downstream properties.
2. The drainage area to all rooftop downspouts shall be 500 square feet or less. Drainage areas to individual downspouts greater than 500 but less than 1,000 square feet shall be treated using drywells constructed according to the Standard Carroll County Design (see item 9).
3. All rooftop downspouts shall discharge to and drain continuously through an adequate length of vegetation (e.g., vegetated channels, swales, or filter strips) in a non-erosive manner to the property line, 75 feet at 5% or flatter.

4. To the extent practical, all other site impervious areas shall discharge to and drain continuously through vegetation in a non-erosive manner.
5. The total impervious area draining to any single discharge point shall be 1,000 square feet or less.
6. All access roads and/or driveways constructed for this project shall use open sections in lieu of curb and gutter.
7. If site conditions exist that prevent all the conditions of this Standard Plan from being met, the owner/developer shall submit a Stormwater Management plan to the Carroll County Bureau of Resource Management in accordance with Chapter 151 of the Code of Local Laws & Ordinances of Carroll County.
8. This Standard Plan shall not be used in areas of special concern (e.g., karst geology or sinkhole activity) without specific approval.
9. The Environmental Inspection Division personnel will inspect the site as part of the preliminary grading inspection prior to issuance of the building permit by the Bureau of Permits and Inspections. They will determine if adequate grading is possible or if drywells are required.
10. The Environmental Inspection Division shall be contacted at least 48 hours prior to the start of drywell construction to schedule an inspection (410) 386-2506.
11. The proposed work shall not impact waters and/or wetlands of the State and any associated buffers without authorization from the appropriate Federal and/or State agencies. Permits required by Federal or State agencies for the protection of wetlands are the responsibility of the property owner, contract purchaser, or authorized agent.
12. All stormwater practices and/or runoff controls shall be installed according to this Standard Plan. Subsequent alteration or modification of these practices requires approval from Environmental Inspection Division personnel.
13. The applicant/homeowner shall maintain in good condition all stormwater practices constructed in accordance with this Standard Plan.
14. Access to the site will be made available at all reasonable times during construction and with reasonable notification after construction for inspection by the Environmental Inspection Division personnel. The stormwater management deed of easement and maintenance agreement must be completed, notarized and security provided.
15. The applicant/homeowners shall promptly repair and/or restore all stormwater practices found in noncompliance by the Environmental Inspection Division.
16. The Environmental Inspection Division reserves the right to deny approval under this Standard Plan and require that a design be prepared according to Chapter 151 of the Code of Local Laws & Ordinances of Carroll County (see item 7).
17. Nothing in this Standard Plan relieves the applicant from complying with any and all Federal, State, and local laws and regulations.
18. Coverage under this Standard Plan shall remain valid for [two] years from the date of approval.

¹ The 2000 Maryland Stormwater Design Manual, Volumes I&II (MDE, April 2000) is available in copy or electronic format. For more information or to order a copy of the Design Manual, see MDE's website www.mde.state.md.us or call (410)-537-3543.

Certification

I certify that I have the authority to make application using this Standard Plan; that the information contained herein is correct and accurate; and that all clearing, grading, construction, and development will be conducted according to this Standard Plan and all laws and regulations.

Name (Please Print)

Signature

Date

Inspection

Stormwater Management achieved through grading

Yes

No

Environmental Inspection Division Inspector

Date

Stormwater Management achieved through drywells

Yes

No

Environmental Inspection Division Inspector

Date

Figures 1 and 2 revised to change drywell sizes. (Revised 11/16/2016)

R:\Martin\Updated Forms\C.C. MD - Standard SWM Plan for Single Lot Residential Construction Updated 2-21-19.doc

Revised 8/21/2015
Revised 12/29/2016
Revised 2/21/2019

STORMWATER MANAGEMENT STANDARD DRYWELL INSTALLATION

MARTIN BRYAN COVINGTON, III, P.E. 1

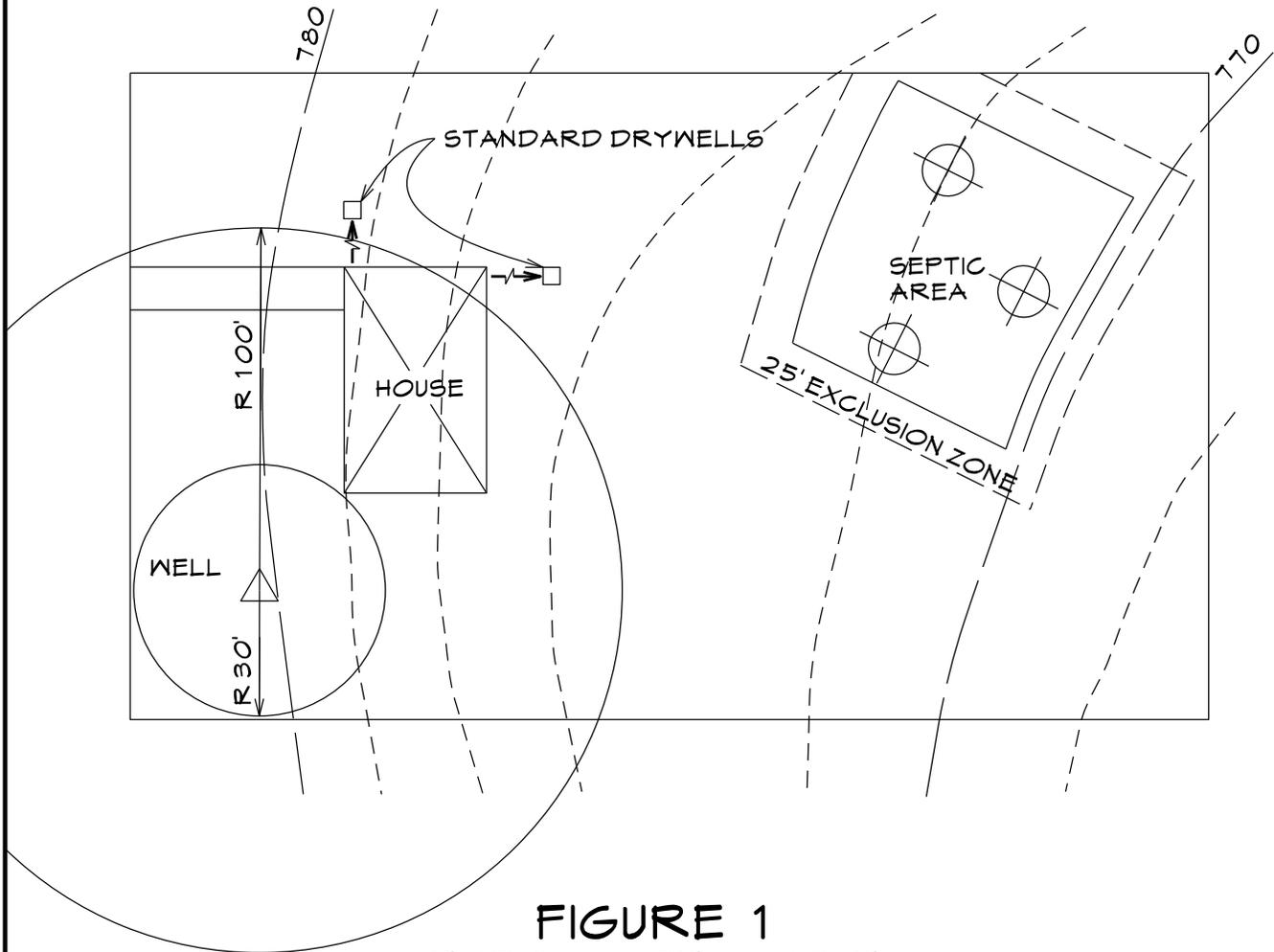


FIGURE 1
TYPICAL LOT LAYOUT

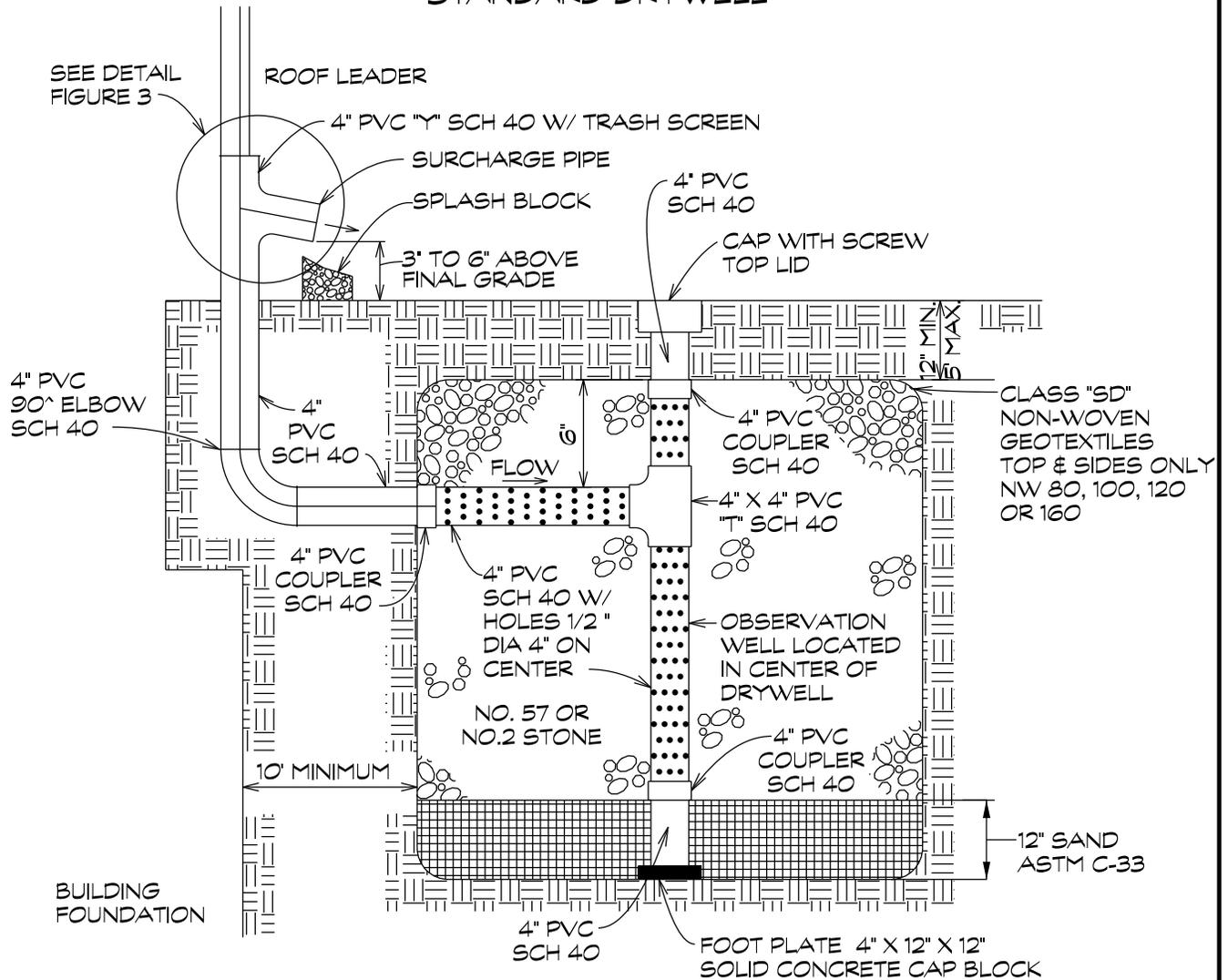
NOTES:

1. STANDARD CARROLL COUNTY DRYWELLS ARE NORMALLY 8'x8'x5' WITH SAND FILLING THE BOTTOM FOOT. THIS PROVIDES MINIMUM ESD STORMWATER CONTROL AND GROUNDWATER RECHARGE FOR 1000 SQUARE FEET OF ROOFTOP.
2. STANDARD DRYWELLS MUST BE LOCATED AT LEAST 100 FEET FROM ANY WELL AND AT LEAST 25 FEET FROM THE SEPTIC AREA.
3. DRY WELLS ARE TO BE INSTALLED AT OR AFTER FINAL GRADING. (WHEN DOWNSPOUTS ARE INSTALLED)
4. ALL ROOF LEADERS MUST BE CONNECTED TO THE DRYWELLS

¹MARTIN BRYAN COVINGTON, III, P.E., PROGRAM ENGINEER, CARROLL COUNTY GOVERNMENT, MD 225 NORTH CENTER STREET, WESTMINSTER, MD 21157-2194 MCOVINGTON@CCG.CARR.ORG

REVISED TO REDUCE SIZE OF DRYWELLS
DISTRIBUTED FOR COMMENT AT
C.C. SURVEYORS MTG NOV 16, 2016
EFFECTIVE DATE: DEC 16, 2016

FIGURE 2
STANDARD DRYWELL

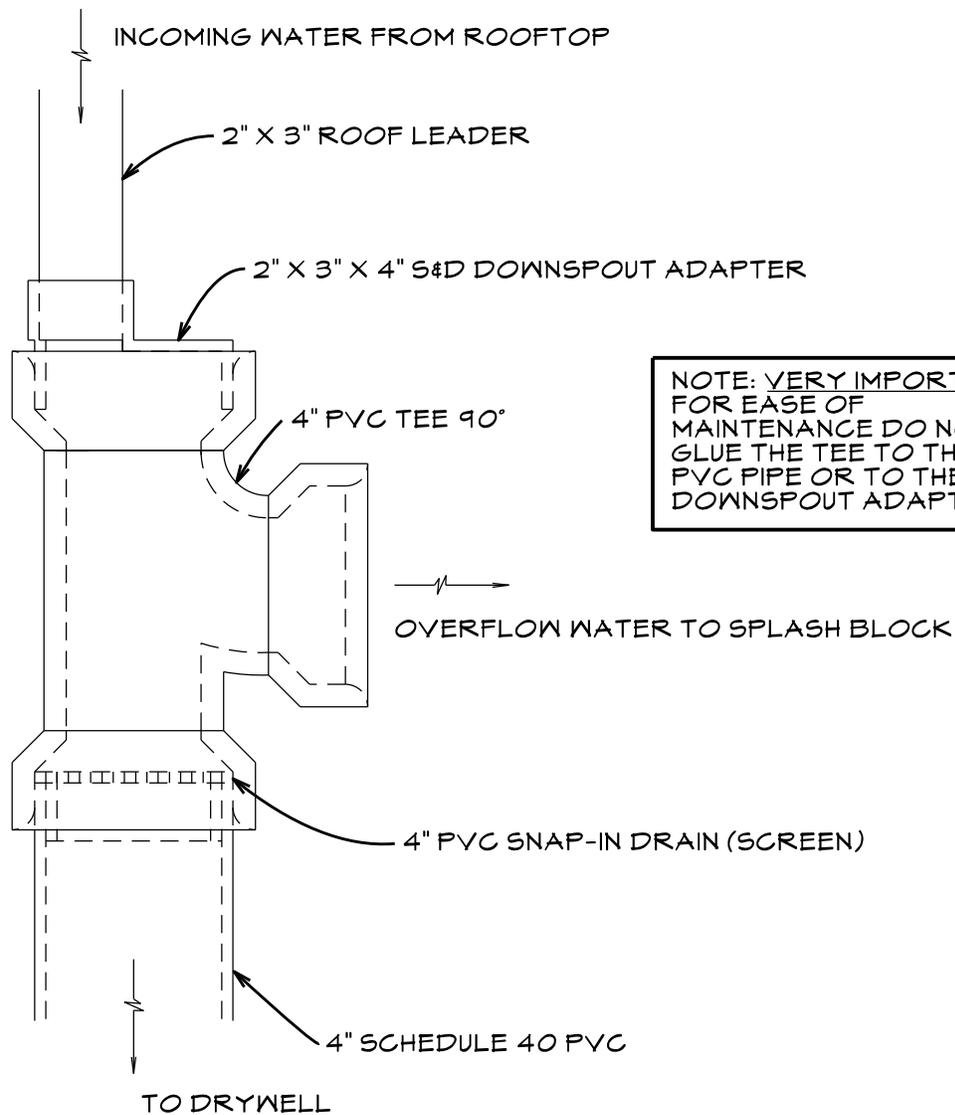


NOTES:

1. IF USING ONE DRYWELL THE STANDARD DRYWELL IS 8' X 8' X 5' WITH SAND FILLING THE BOTTOM FOOT. THIS PROVIDES MINIMUM ESD (1") STORMWATER CONTROL FOR 1000 SQUARE FEET OF ROOFTOP. IF ADDITIONAL CONTROL IS REQUIRED TO PROVIDE TOTAL ESD TO MEP (UP TO 2.6") LARGER PRACTICES MAY BE USED. DRYWELLS LARGER THAN 216 FT³ OF STORAGE VOLUME MUST BE DESIGNED AS INFILTRATION FACILITIES.
2. MINIMUM SETBACKS:
 - A. 100 FT FROM WELLS
 - B. 25 FT FROM SEPTIC AREAS
 - C. 10 FT FROM BUILDINGS
3. FROM THE DOWNSPOUT TO THE DRYWELL THE DRAIN PIPE MUST BE AT LEAST 6' BELOW GRADE.
4. THE LOCATIONS AND SIZE OF ALL DRYWELLS MUST BE SHOWN ON THE GRADING PLOT PLAN.
5. THESE GEOTEXTILES ARE AVAILABLE IN FINKSBURG @ ES&G DISTRIBUTORS 2601 EMORY RD. BLDG 8. 866-744-5001, ANY EQUIVALENT GEOTEXTILE IS ACCEPTABLE.

Martin B. Covington III, PE
 ORIGINALLY EFFECTIVE APRIL, 2006
 REVISED TO REDUCE DA AUGUST, 2016
 DISTRIBUTED AT C.C. SURVEYORS MTG
 FOR COMMENT NOV 16, 2016
 EFFECTIVE DATE: DEC 16, 2016

FIGURE 3 STANDARD DRYWELL DOWNSPOUT FITTINGS (ALTERNATE)



NOTE: VERY IMPORTANT FOR EASE OF MAINTENANCE DO NOT GLUE THE TEE TO THE PVC PIPE OR TO THE DOWNSPOUT ADAPTER.

NOTES:

1. THE SNAP IN SCREEN IS REQUIRED TO PREVENT CLOGGING OF THE DRYWELL WITH DEBRIS.
2. SEE FIGURE 3a "LIST OF POTENTIAL SUPPLIERS TO ACCOMPANY FIGURE 3 STANDARD DRYWELL DOWNSPOUT FITTINGS" FOR INFORMATION ON SOME LOCAL RETAILERS THAT SUPPLY COMPONENTS FOR THIS SYSTEM.

Martin B. Covington III, PE
DISTRIBUTED AT C.C. SURVEYORS MTG.
MARCH 21, 2012
EFFECTIVE APRIL, 2012

Figure 3a
List of Potential Suppliers to Accompany Figure 3
Standard Drywell Downspout Fittings
March 2008

2" x 3" x 4" S&D Downspout Adapter

BT Plumbing Supply, Inc., 486 Lucabaugh Mill Road, Westminster, MD 21157; 410-876-2118-
Part No. PSDDSA234

Ferguson Enterprises, Inc., 900 Wakefield Valley Road, New Windsor, MD 21776; 410-635-6682-
Part No. PSDAKMP

Lowes Home Improvement Warehouse of Westminster, 777 Market Street, Westminster, MD 21157;
410-857-7445- Part No. NDS L9P04

The Plumbery Home Center (two locations), 15 N. Main Street, Mt Airy, MD 21771; 301-829-1770 or
410-0331; or 418 E. Baltimore Street, Taneytown, MD 21787; 410-751-1113 – Part No.- requires bushing

4" PVC WYE 45°

BT Plumbing Supply, Inc., 486 Lucabaugh Mill Road, Westminster, MD 21157; 410-876-2118-
Part No. PY4

Ferguson Enterprises, Inc., 900 Wakefield Valley Road, New Windsor, MD 21776; 410-635-6682-
Part No. PDWVYP

Lowes Home Improvement Warehouse of Westminster, 777 Market Street, Westminster, MD 21157;
410-857-7445- Part No. Charlotte CPF600 1400

4" PVC Snap-in Drain Screen

BT Plumbing Supply, Inc., 486 Lucabaugh Mill Road, Westminster, MD 21157; 410-876-2118-
Part No. JSD42004

Jones-Stephens Corp.; www.plumbest.com; 800-355-6637 – Part No. D42-004

Lowes Home Improvement Warehouse of Westminster, 777 Market Street, Westminster, MD 21157;
410-857-7445- Part No. Oatey 435693

The Plumbery Home Center (two locations), 15 N. Main Street, Mt Airy, MD 21771; 301-829-1770 or
410-0331; or 418 E. Baltimore Street, Taneytown, MD 21787; 410-751-1113 – Part No.- requires cutting
to fit

Note: The Carroll County Bureau of Resource Management obtained this part information after sending out a letter to known local plumbing supply companies and after receiving information from each respective company. The suppliers listed above are provided for reference purposes only. Any equivalent schedule 40 PVC fittings from any vendor may be used.

Martin B. Covington, III, P.E. , Carroll County Stormwater Management Program Engineer
First Effective March 19, 2008
Revised to provide 1" of ESD.
Distributed for comment May 3, 2010.
Comments received at the Carroll County Surveyors Meeting on May 19, 2010.
Effective Date: July 29, 2010