INSPECTION CHART FOR DRYWELL INSTALLATION

DRYWELL NO. _____

STAGE	ENGINEER'S APPROVAL	
	INITIALS	DATE
1. ONCE THE INDIVIDUAL HOUSE HAS BEEN CONSTRUCTED AND FINAL GRADING IS COMPLETE.		
2. EXCAVATION OF DRYWELL PRIOR TO SAND PLACEMENT. INSTALL FILTER FABRIC ON SIDES ONLY. PLACE PIPE BLOCK IN THE CENTER OF THE DRYWELL PIT.		
3. PLACEMENT OF SAND		
4. PLACEMENT OF WASHED NO. 2/57 STONE AND PIPE		
5. PLACEMENT OF 4" PVC PIPE & COMPLETE PLACEMENT OF STONE. TEMPORARILY PLUG PIPE.		
6. WRAP TOP OF STONE WITH FILTER FABRIC.		
7. INSTALLATION OF ROOF, GUTTERS AND LEADERS. (MAY OCCUR AT ANY TIME BEFORE THIS POINT)		
8. FINE GRADE & STABILIZATION OF AREAS DISTURBED DURING CONSTRUCTION OF DRYWELL		
9. INSTALLATION OF SURCHARGE FITTING, SCREENS AND CONNECTION TO DRYWELL PIPE. (REMOVE TEMPORARY PLUG)		

* PLEASE NOTIFY CERTIFYING ENGINEER OR LAND SURVEYOR 48 HRS PRIOR TO CONSTRUCTION *

ENGINEER'S NAME : _____

PHONE NUMBER: _____

NOTE: THIS INSPECTION CHART APPLIES TO A 1 YEAR OR LESS STORM ON A 1000 SQ. FT. RESIDENTIAL ROOFTOP. ANY GREATER STORM OR LARGER DRAINAGE AREA WILL REQUIRE SPECIAL DESIGNS.

ADDED TO DRYWELL DETAIL:
POSTED TO WEBSITE JULY, 2025
MARTIN B. COVINGTON III, PE
C.C. SWM PROGRAM ENGINEER

STORMWATER MANAGEMENT STANDARD DRYWELL INSTALLATION

MARTIN BRYAN COVINGTON, III. P.E. 1

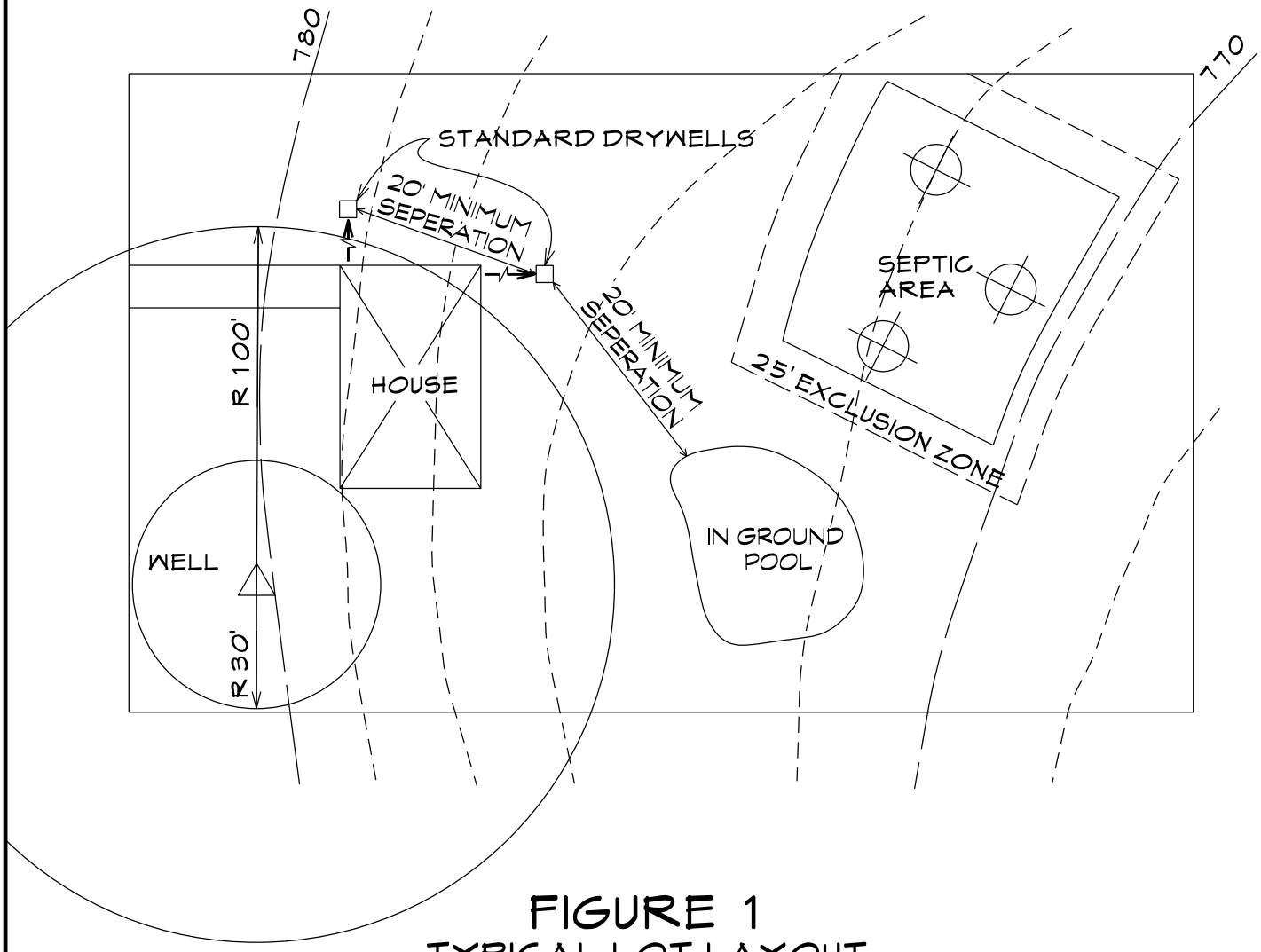

FIGURE 1
TYPICAL LOT LAYOUT

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, 20 FEET FROM OTHER DRYWELLS, 20 FEET FROM IN GROUND SWIMMING POOLS AND 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

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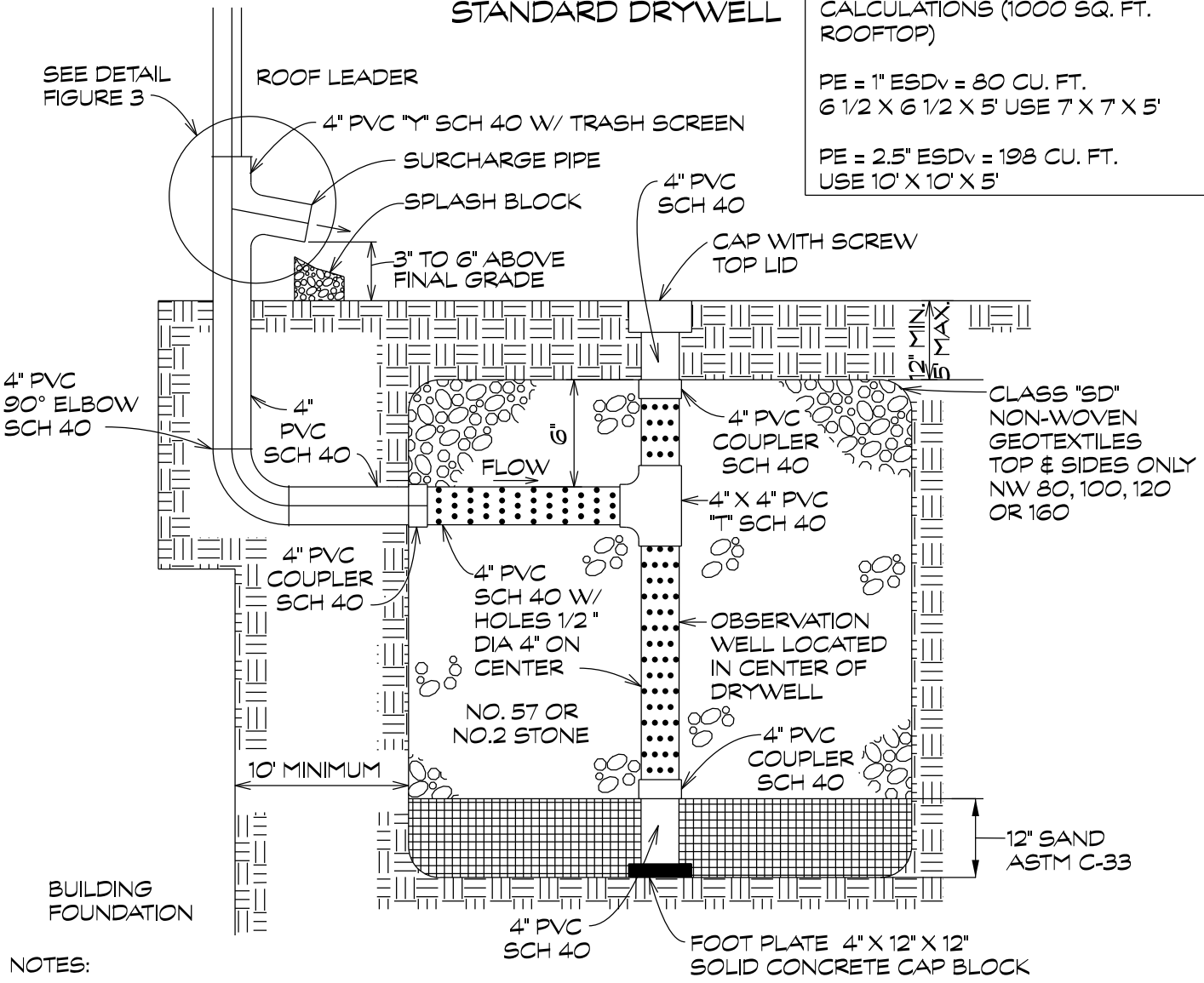
REVISED TO REDUCE SIZE OF DRYWELLS
DISTRIBUTED FOR COMMENT AT
C.C. SURVEYORS MTG NOV 16, 2016
EFFECTIVE DATE: DEC 16, 2016
REVISED AND POSTED JULY, 2025

FIGURE 2
STANDARD DRYWELL

2020 POLICY CHANGE INCLUDE SAND VOIDS IN STORAGE CALCULATIONS (1000 SQ. FT. ROOFTOP)

PE = 1" ESDv = 80 CU. FT.
6 1/2 X 6 1/2 X 5' USE 7' X 7' X 5'

PE = 2.5" ESDv = 198 CU. FT.
USE 10' X 10' X 5'



NOTES:

1. IF USING ONE DRYWELL THE STANDARD DRYWELL IS 7' X 7' X 5' WITH SAND FILLING THE BOTTOM FOOT. THIS PROVIDES MINIMUM ESD (1") STORMWATER CONTROL FOR 1000 SQUARE FEET OF ROOFTOP (MANUAL PAGE 5.92). IF ADDITIONAL CONTROL IS REQUIRED TO PROVIDE TOTAL ESD TO MEP (UP TO 2.5") LARGER PRACTICES MAY BE USED. DRYWELLS LARGER THAN 198 CU. FT. 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
   D. 20 FT FROM OTHER DRYWELLS
   E. 20 FT FROM IN GROUND SWIMMING POOLS

3. FROM THE DOWNSPOUT TO THE DRYWELL THE DRAIN PIPE MUST BE AT LEAST 12" BELOW GRADE.

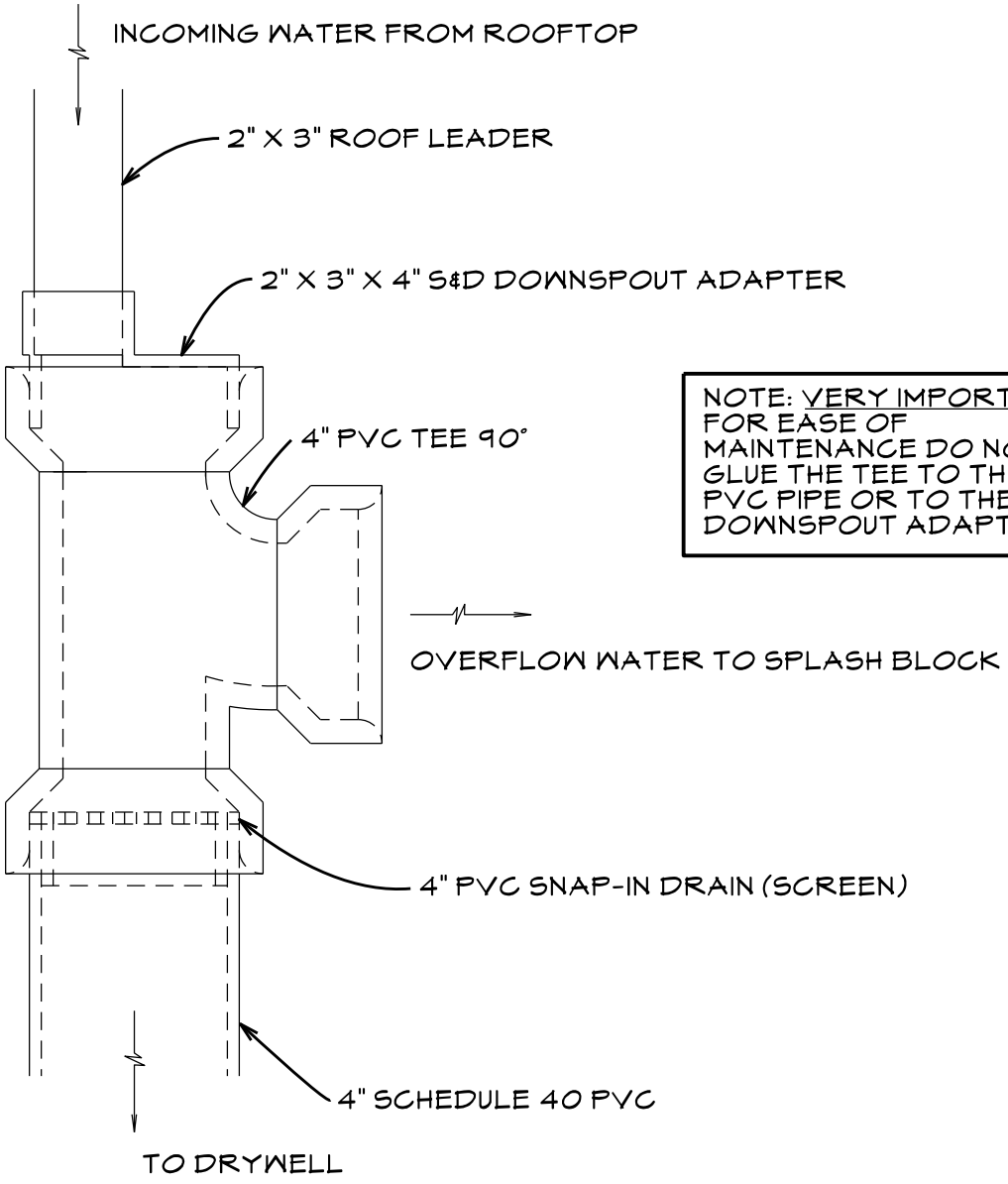
4. THE LOCATIONS AND SIZE OF ALL DRYWELLS MUST BE SHOWN ON THE GRADING PLOT PLAN.

5. THESE GEOTEXTILES ARE AVAILABLE IN FINKSBURG @ ES&G DISTRIBUTORS 2601 EMORY RD. BLDG 8. 866-744-5001, ANY EQUIVALENT GEOTEXTILE IS ACCEPTABLE.

6. ALL GUTTERS, LEADERS, FITTINGS, SCREENS, AND PIPING ARE SIZED FOR 1 YEAR STORM RUNNOFF FOR A 1000 SQ. FT. ROOF. LARGER STORMS AND LARGER ROOFS REQUIRE INDIVIDUAL DESIGN.

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
REVISED AND POSTED JULY, 2025

FIGURE 3
STANDARD DRYWELL DOWNSPOUT FITTINGS (ALTERNATE)



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.
3. IF DRYWELLS ARE DESIGNED FOR STORMS LARGER THAN 1 YEAR, OR COMMERCIAL BUILDINGS THE GUTTERS, ROOF LEADERS, TEES, SCREENS; AND UNDERGROUND PIPING MUST BE SIZED TO CAPTURE AND CONVEY THE PEAK FLOW OF THE DESIGN STORM.

Martin B. Covington III, PE
DISTRIBUTED AT C.C. SURVEYORS MTG.
MARCH 21, 2012
EFFECTIVE APRIL, 2012
REVISED AND POSTED JULY, 2025