

FOR SINGLE-FAMILY RESIDENTIAL USE ONLY WITH LESS THAN 5,000 SQUARE FEET OF NEW OR REPLACED IMPERVIOUS AREA

Dry Well

A dry well is a system consisting of a plastic perforated seepage barrel installed in a gravel-filled excavation. Stormwater from impervious areas including roofs, driveways, and pool decks is conveyed through plastic piping or by overland flow to the dry well. Water flows from the barrel/gravel system and infiltrates into the surrounding soil, providing stormwater benefits.



Locate

- Install the dry well at least 10 feet away from building foundations.
- Avoid septic fields, utility easements, and public right of way.
- Install in a landscaped area.
- Consider the stormwater conveyance path to the dry well. Confirm that the path allows gravity flow and will not cause erosion.
- Consider the overflow location where the grate top meets the ground surface. Excess water which exits the top should not be directed toward a building or channeled onto a neighboring property.

Design

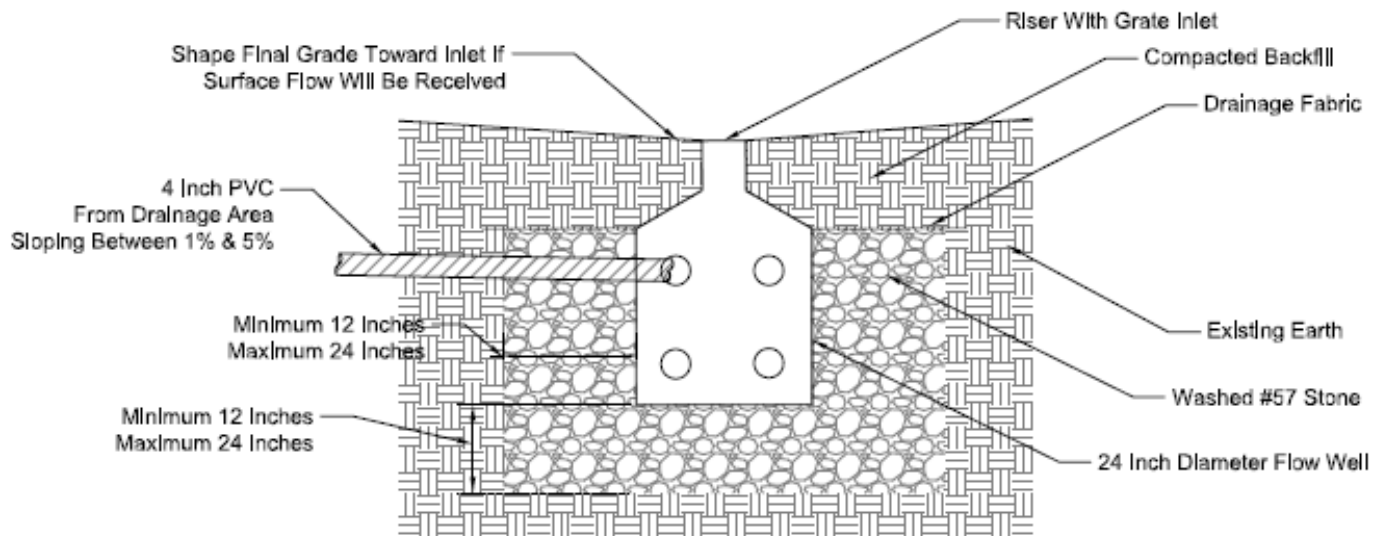
- A single dry well can treat a maximum of 650 square feet of impervious area. Additional dry wells can be added to treat additional area.
- The dry well should be sized based on the amount of impervious area that can be conveyed to the well. Use additional dry wells as topography and distance dictates.
- To size the excavation, see the table below.
- A detail is provided on the next page.

Area of Impervious Surface in Square Feet Which Can be Treated Per Flow Well (24 inches Diameter, 24 inches Tall)			
Thickness of Gravel Below Well (inches)	Width of Gravel Around Well (inches)		
	12	18	24
12	250	350	500
18	280	400	575
24	310	450	650

Maintain

- Inspect gutters and downspouts for accumulated leaves.
- Inspect dry wells monthly. Remove accumulated leaves and debris from seepage barrel.
- Monitor for and repair areas of erosion. Pea gravel or other rock lining may be required if erosion occurs at the inflow/overflow area.

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Design Steps

1. Review potential areas for dry well locations. Water can either flow overland, entering the top of the well, or water can be piped to the seepage barrel in plastic drain pipe. Avoid areas within 10 feet of a building foundation, near slopes, near septic lines or other utilities, or public right of way.
2. Note the overflow point as designed. Confirm the overflow point will not channel flow onto a neighboring property and that the location is at least 10 feet from the property line.
3. Obtain manufacturer's specifications and details for dry well.

Construction Steps

1. Call 811 for a utility locate before you dig.
2. Dig the hole to the required depth, diameter, and width.
3. Roughen the excavated surface soil and avoid compacting the bottom of the hole.
4. Install 12 inches to 24 inches of #57 washed stone. Compact the stone. Place the tank and install the riser. Check the elevation to confirm that the grate will be at ground level.
5. If water will be piped to the dry well, install the plastic drain pipe into the seepage barrel, following manufacturer's recommendations.
6. Test the system with water to confirm gravity flow and stoutness of connections.
7. Backfill the excavation with #57 stone.
8. Install drainage fabric over gravel and install topsoil and sod.

<p>CITY OF ROSWELL COMMUNITY DEVELOPMENT DEPARTMENT</p>	<p>Name/Address:</p>	<p>DRY WELL DIAGRAM & CONSTRUCTION STEPS</p>
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