DRYWELL STANDARDS
BOROUGH OF BERNARDSVILLE

The Development Regulations of the Borough of Bernardsville require that all Minor Developments provide runoff quantity control measures designed with a capacity to infiltrate three (3) inches of runoff for each square foot of new impervious surface being created.

A common practice for collecting and infiltrating roof runoff for both minor and major developments within the Borough of Bernardsville has been to utilize precast concrete drywells. The following standards and details apply to the design of drywells for minor developments and for storms larger than the water quality storm for major developments, where approved:

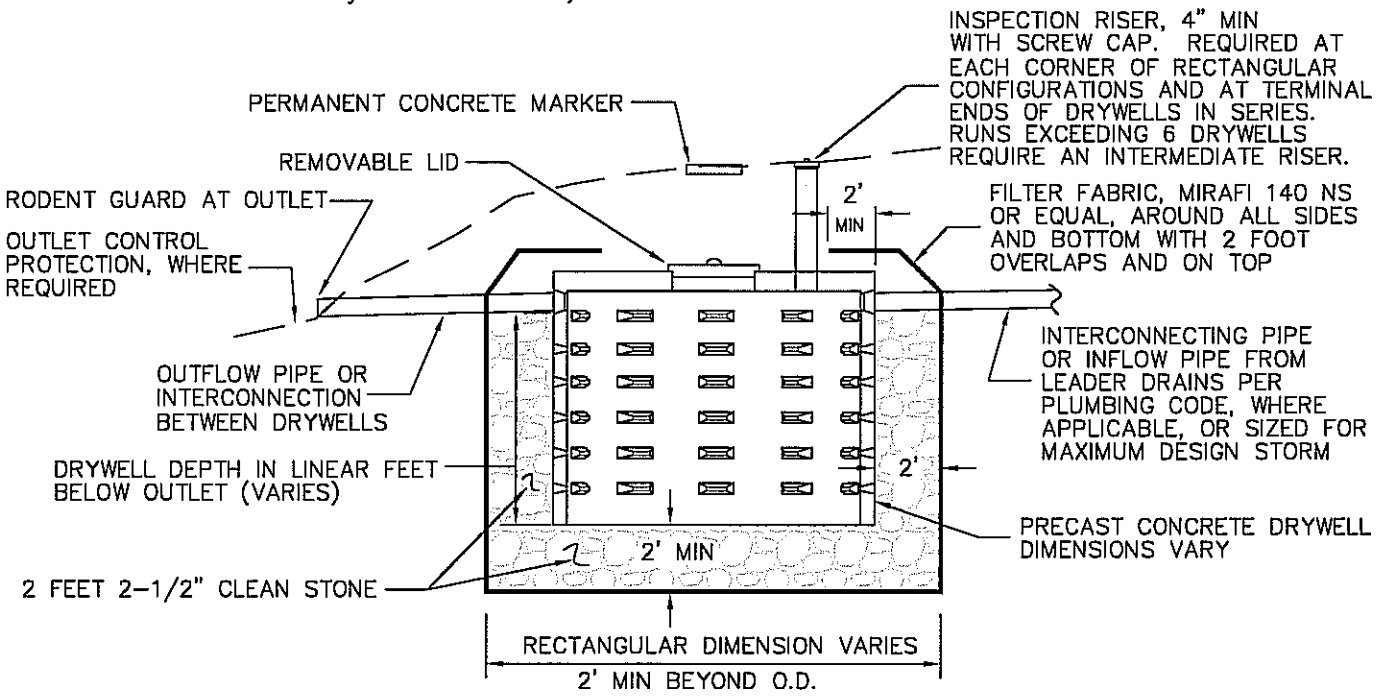
1. Volume of runoff is 3–inches per each square foot of impervious area directed to the drywell system.

2. Stone used in infiltration devises shall be two and one–halh (2–1/2") inch clean stone and the design void ratio shall be 33%.

3. Two (2) feet of stone is required around the sides and bottom of the drywells. The calculations shall neglect stone voids below the bottom of the drywell.

4. if 6–foot diameter drywells are used, 4.66 linear feet of drywell depth, per 1000 square feet of impervious surface, below the overflow invert is required. Assumes 78" outside diameter and rectangular excavation, 2 feet beyond each drywell, (i.e. 4 feet of stone between drywells in series.)

5. if 8–foot diameter drywells are used, 3.42 linear feet of drywell depth, per 1000 square feet of impervious surface, below the overflow invert is required. Assumes 96" outside diameter and rectangular excavation, 2 feet beyond each drywell, (i.e. 4 feet of stone between drywells in series.)



TYPICAL DETAIL

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