



# RAIN GARDEN

## AVAILABLE PCBMP MEASURES

- Dry Well
- Permeable Pavers
- Rain Barrel
- Rain Garden**
- Rainwater Harvesting



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## POST CONSTRUCTION BEST MANAGEMENT PRACTICES (PCBMP)



On July 21, 2014, The Village Board discussed possible ordinance changes to alleviate the cumulative effects of increased impervious surfaces due to residential teardowns. During that meeting the Village Board directed Staff to draft an ordinance amending the Village's stormwater and flood plain ordinance to lower the threshold for requiring on-site storm water storage. The resulting code amendment is designed to prevent further stormwater impacts as a result development. On November 3, 2014, the Village Board adopted Ordinance 04-11-37 amending the County's stormwater Post Construction Best Management Practices (PCBMP) requirements to do the following:

- Reduce the current threshold for requiring PCBMP storage for new impervious area from 2,500 square feet to 300 square feet. This reduced threshold would allow property owners to make minor additions (i.e. patios, driveway expansions, accessory structures, covered front porches, etc.) without requiring the expense of engineering services and stormwater storage. Larger projects (i.e. detached garages, sport courts, room additions and new homes) would be required engineering services to determine the needed PCBMP storage required based on increased impervious surface.
- Establish other means for providing PCBMP storage through the installation of rain gardens, rainwater harvesting systems, underground storage systems, and/or other design approved by the Village Engineer. A pump may be required if the Village Engineer determines the on-site soil conditions are not suitable for infiltration.

Establish a bi-annual (every 2 years) inspection program by the Village Engineer at the expense of the property owner.

These new PCBMP storage standards will become effective **May 1, 2015**. Please contact the Community Development Department for more information.

# RAIN GARDEN

A Rain Garden is a planted depression that allows rainwater runoff from the new impervious area (or equivalent existing impervious area) to be absorbed. The collected stormwater will be stored in the voids of a stone layer located beneath the plants and soil. Within the stone layer, 36% is assumed as the void space. If the soils are determined to be unsuitable for infiltration, a small diameter perforated underdrain will be required to dewater the stored stormwater runoff over a 48 hour to 96 hour duration to the closest Village drainage system. If the Rain Garden cannot drain by gravity because of existing topographic issues, a small pump will be needed to dewater the stored stormwater.

Village consultant will perform three (3) inspections during construction.



Rain Garden Example

