

# TOWNSHIP OF LONG HILL

COUNTY OF MORRIS
GILLETTE, HOMESTEAD PARK, MEYERSVILLE, MILLINGTON, STIRLING

## **ENGINEERING OFFICE**

## APPLICATION FOR LOT GRADING PLAN & INSPECTION

FOR OFFICE USE				
Date Application				
Received:		Check Numbe		
Comments Issued /				
Date:		Township Engineer S	ignature of Approval / Date	
Prior to the issuance of a building permit, the Applicant shall submit <b>four (4)</b>		nit four (4) copies of a lot grading p	lan to the Township Engineer along with	
the fee of \$400.00. The fee shall cover the cost of a preliminary site visit, review of initial submission and one (1) revision, two (2) site inspections and submission of one (1) inspection report to the Construction Official. If more than two (2) inspections of a property are required for any reason, the Applicant shall pay a fee for each additional inspection, based on the Township Engineer's, or his representative's regular hourly rate. All fees for any additional inspections shall be paid prior to the issuance of a Certificate of Occupancy.				
Approval by the Township Engineer of a Lot Grading Plan shall be required prior the issuance of building permit for the following:  A) The erection of any new dwelling which is not shown upon an approved site plan, or  B) Any other project requiring inspection or review by the Township Engineer not covered by engineering inspection fees such as drywell design and inspection.				
Unless advised otherwise, the Township Engineer will notify the Applicant and the Township Construction Official of the approval in writing.				
Work Site				
Mailing Address:				
Block & Lot(s):				
Applicant Information:		Property Owner Inform	Property Owner Information:	
Name:		Name:		
Address:		Address:		
City & Zip:		City & Zip:		
Phone #:		Phone #:		
Email:		Email:		
Plans Prepared By:	Name / Address / Phone			
Means of Sewage Disposal:  SEWER  of Health stamp must acc		SEPTIC If a septic system accompany this application.	m is proposed, 2 copies with Board	
in violation of any local, s	state or federal regulations the Tow	nship Engineer, or his representa	Long Hill. If any work shall be done tive, shall have the right to stop work in the part of the Township because of	
Signature of Applicant			Date	

#### DRYWELL DESIGN CALCULATIONS

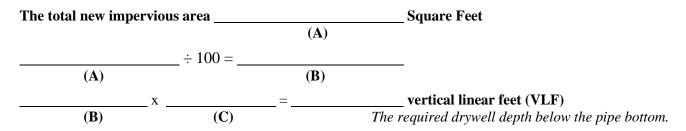
Drywells are an integral part of stormwater management. They provide a means of reducing runoff from a property by allowing the water to seep into the ground and recharging the groundwater.

Per Section §146.8 of the Township of Long Hill Land Use Ordinance, drywells are required for any new impervious areas such as roof areas, patios, driveways, recreation courts, etc. that are over 400 square feet in size. This provision applies to the *cumulative total* of new impervious areas. (Example: A 350 SF addition and a 100 SF patio; the cumulative total is 450 SF and a drywell is required.)

Drywells shall have the capacity to store a volume equal to four (4) inches of runoff from the impervious areas. The following information can be used to help size drywells if you do not have a design by an engineer.

To determine the required size of the drywell, *divide* the total impervious area (A) by 100, then *multiply* that number (B) by the corresponding tank volume/foot (C). This will provide the <u>required depth</u> of the drywell for a given diameter tank.

#### **CALCULATIONS:**



For 6' Diameter Drywell: Use C = 0.6 (0.6 VLF of drywell tank is required per 100 SF of impervious area)

For 8' Diameter Drywell: Use C = 0.4 (0.4 VLF of drywell tank is required per 100 SF of impervious area)

#### **EXAMPLES:** (See construction details on the next page)

- 1) A 700 SF addition is proposed. The total new impervious area is 700 SF (A)  $700 \text{ (A)} \div 100 = 7 \text{ (B)}$  Using a 6' diameter drywell, (C) = 0.6  $7 \text{ (B)} \times 0.6 \text{ (C)} = 4.2 \text{ VLF}$  required Therefore, the drywell tank must be at least 4.2 feet deep, below the pipe bottom.
- 2) A 1,000 SF addition and a 500 SF patio are proposed. The total new impervious area is 1,500 SF (A) 1,500 (A) ÷ 100 = 15 (B) Using an 8' diameter drywell, (C) = 0.4 15 (B) x 0.4 (C) = 6.0 VLF required Therefore, the drywell tank must be at least 6 feet deep, below the pipe bottom.
- 3) Total new impervious area is 1,330 SF (A) 1,330 (A) ÷ 100 = 13.3 (B) Using a 6' diameter drywell, (C) = 0.6 13.3 (B) x 0.6 (C) = 7.98 VLF required Therefore, the drywell tank must be at least 8 feet deep, below the pipe bottom. You can use 1 / 6' tank 8' deep or 2 / 6' tanks 4' deep

NOTE: Please attach this calculation page and the drywell detail page to your Lot Grading Plan.

## DRYWELL CONSTRUCTION DETAIL

