

***Town of Fairfield Engineering Department
General Guidelines for Stormwater Detention Design Criteria for Single Lot
Development.***

July 1, 2011

Rev. November 29, 2011

Rev. December 17, 2013

For additions to existing dwellings and/or driveway expansion stormwater detention is required for the increase in impervious surfaces (200 sf or greater).

All new construction, including knockdown/rebuilds, will require detention for up to and including the 100 yr storm event (rational method may not be used).

Design criteria is based on the SCS TR-55 method of calculating runoff volumes for the 10- yr frequency, 24 hour storm duration*.

This also meets the current requirement for detention determined by averaging the volumes calculated using the Rational Method and SCS TR55 for the 100-year storm event.

For New Construction- Stormwater detention design shall be shown on site plan accompanied by drainage report prepared by a Connecticut licensed professional engineer.

All calculations for new construction will be based on raw land; no credit will be issued for any prior site development.

****Detention Examples Using SCS TR-55 and Cultec Recharger 100***

<i>IMPERVIOUS AREA</i>	<i>STORAGE VOLUME</i>
EVERY 100 SF	28.3 CUBIC FEET**
<i>EXAMPLES:</i>	
200 SF	56.6 CF = 2 Cultec Recharger 100
300 SF	85 CF = 3 Cultec Recharger 100
400 SF	113 CF = 4 Cultec Recharger 100
500 SF	142 CF = 5 Cultec Recharger 100
600 SF	170 CF = 6 Cultec Recharger 100
800 SF	226 CF = 8 Cultec Recharger 100
1000 SF	283 CF = 10 Cultec Recharger 100

NOTE: Other methods may be used to determine detention requirements. Drainage report must accompany site plan. Cultec Recharger 100 is used for example only. Any comparable make or model can be used.

**Units are placed on 6” of stone with additional 6” of stone along either side, per manufacturer’s specifications.

When Town drainage system is accessible to site, a high level overflow pipe can be connected from the detention system into the Town drainage system. A back flow preventer (check) valve must be placed in the line between the two systems. A permit will be required to connect into the Town of Fairfield drainage system as well as an executed Hold Harmless Agreement that can be obtained in the Engineering Department.

For developments from one acre to under 5 acres in size, a Phase II NPDES Stormwater Pollution Prevention Control Plan will be required and should be submitted to the Town of Fairfield Engineering Dept. for approval.

For developments 5 acres or greater in size a DEP Phase II Stormwater Pollution Prevention Control Plan will be required and should be submitted to the State of Connecticut DEP for approval.

All permits, specification drawings and additional information can be obtained at the Engineering Department Office.

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