

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

March 19, 2020

All new single lot construction over 200 square feet, including knockdown/rebuilds, expansion of driveways, parking areas and horizontal or vertical additions will require detention and a drainage permit from the Engineering Department.

For additions to: Existing dwellings, dormers, roof joists reconstruction, adding additional stories, patios and driveway expansion. Stormwater detention is required for these improvements or increase in impervious surfaces (200 sf or greater).

Design criteria is based on the SCS TR-55 method of calculating runoff volumes for the 25-yr frequency, 24 hour storm duration*.

For any increase in impervious area greater than 600 square feet soil testing is required.

For New Construction- Stormwater detention design and calculations will be shown on site plan accompanied by drainage report prepared by a Connecticut licensed professional engineer. Soil testing to confirm groundwater, mottling, percolation rate and ledge is required prior to installation.

All calculations for new construction will be based on raw land; no credit will be issued for any prior site development unless completely separate from proposal and approved by the Engineering Department.

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

GUIDELINE:

***STORAGE VOLUME REQUIRED FOR 25 YR STORM = 34.0 CUBIC FEET
FOR EVERY 100 SF OF IMPERVIOUS AREA***

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 and be located on private property. A permit will be required to connect into the Town of Fairfield drainage system as well as an executed Hold Harmless Agreement and Drainage permit that can be obtained in the Engineering Department. A Sewer Department Street Opening permit is also required.

For developments from one acre to under 5 acres in size, a Phase II NPDES Stormwater Pollution Prevention Control Plan will be required and shall be submitted to the Town of Fairfield Engineering Dept. for approval. All new construction other than individual lots will require detention for up to and including the 100-yr storm event (rational method may not be used). This includes but is not limited to subdivisions, commercial, industrial, and multi-family developments.

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.

For locations where underground storage is not feasible, the applicant must design for raingardens, detention basins or perform similar type of detention or improvements within the Town Right of Way upon the approval of the Director of Public Works or Engineering Manager.

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

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