

Minimum Control Measures 4 and 5. Construction Site and Post-Construction Stormwater Runoff Control – Site Plan Review Procedure

NARRATIVE

County of Ulster is not required to enact a local laws or ordinances to regulate construction activities within the MS4 area. The County is required, however, to protect its own drainage system and establish a construction site and post-construction stormwater runoff control mechanism. The Stormwater Pollution Prevention Plans (SWPPP), which are required to be developed by SPDES regulations, have to be submitted and reviewed by Ulster County for compliance. This requirement applies only for those developments within the MS4 area in which the proposed land disturbance is 1 acre or more, the project is adjacent to the county property, and the proposed drainage system or any part of it drains to the County's drainage system.

Stormwater Runoff Control Mechanism

County of Ulster established a control mechanism to comply with the requirements of Minimum Control Measures 4 and 5, development and implementation procedures for site plan review for pre-construction sites and site inspection during the construction work and post-construction runoff control.

The plans will be reviewed by Miklos Rudnay, CPESC, CPSWQ, Ulster County's Stormwater Management Specialist (SWMS). The erosion control and water quality plans for review will be obtained by cooperation within the County's Departments (Public Works, Health, and Planning) based on an Inter-Office Agreement.

In cases where the proposed development lies along the county road the developer needs a driveway or roadway permit to access the property. In these cases the permittee needs to apply for a permit from the Ulster County Dept. of Public Works, Engineering Department. If the proposed development does not lie along a county road and does not need an access from the county road (but from a town or state roads), the developer still needs to obtain a permit from Ulster County Health Department for proposed water supply and sewage disposal. In either case the County is notified about the proposed development. The Storm Water Management Specialist would receive the Stormwater Pollution and Prevention Plan (SWPPP) for review from either the Highway Department or the Health Department. These Departments have the authority to issue or deny the permit application. A permit will be issued only if, besides other requirements, the SWPPP was submitted, reviewed, and approved by the County SWMS, and satisfying the erosion control, pollution prevention, and water quality requirements established by SPDES permit #GP-0-08-001 and permit #GP-0-08-002 as well as Ulster County's design requirements.

Additionally, the Ulster County Planning Department will notify the SWMS about proposed larger size developments within the MS4 area. This will allow the SWMS to contact the designer and developer in an early stage of the design work and expedite the permit procedure.

Design Requirements for SWPPP by Ulster County

The designer/developer shall submit 1 (one) complete copy of the Stormwater Pollution Prevention Plan (SWPPP) to the Ulster County Stormwater Management Specialist (SWMS) for review. To expedite the permit procedure, it is recommended to schedule a meeting with the Ulster County SWMS

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prior to the submittal of a SWPPP to Ulster County.

The designer of a development should consider the following principle requirements during the design and the implementation of a Stormwater Pollution Prevention Plan (SWPPP):

1. Satisfy all the requirements of the SPDES permit(s) for Construction Activities and for MS4
2. Show the MS4 boundary line on the plans
3. Only stormwater can be discharged to the county drainage system
4. Determine the acreage of the proposed land disturbance
5. Provide construction sequence and phasing (the latter is needed only for 5 acres or more land disturbance)
6. Based on the SPDES requirements submit the Erosion and Sediment Control (ESC) Plans or the full SWPPP as needed
7. As a design principle, the post-development stormwater discharge cannot exceed the pre-development conditions at any design point along the perimeter of the property. For easy comparison, prepare a summary table for the pre- and post-development stormwater discharges for the 1 year (C_{pv}), 10 year (Q_p), and the 100 year (Q_f) design conditions
8. The county right-of-way and drainage system should be shown on the plan along the entire frontage of the property
9. If any part of the county drainage system will be used by the developer, show the direction of flow (including elevations and slopes) within the county right-of-way from the discharge point to the point where the stormwater from the development will leave the county right-of-way. Both the inflow and outflow locations shall be mapped by the designer using GPS or standard survey methods and will be provided to the Ulster County SWMS.

10. In case any alteration of the existing county drainage system is necessary (i.e., culvert size increase), an explanation of the necessity of the change and a relevant hydraulic calculation should be submitted to justify the alteration of the drainage feature(s) within the county right-of-way
11. Check the capacity of the existing culvert pipe(s) you want to use under the county road. In case any new culvert pipe is needed, size the pipe for the 25 year storm (Q_{25}) and obtain all necessary easements and permits along the water course on the downstream side of the culvert
12. Check the capacity of the county ditch line if any part of this ditch line is used in the design. If a new ditch line is proposed, size it to the 10 year storm (Q_p)
13. The applicant is responsible for the design, construction, and maintenance of the drainage appurtenances necessary to be built or altered because of the proposed development
14. It is the applicant's responsibility to correct erosion problems during and after the construction. The erosion and sediment devices cannot be removed before the final stabilization of the disturbed land
15. The applicant is responsible for the design, replacement and/or installation of the necessary drainage appurtenances if the proposed drainage system, for any reason and any level, adversely affects the existing county drainage system or the water course on the downstream side of the culvert
16. Use standard symbols for stormwater management practices
17. Provide stabilized construction entrance(s) and show its location on the ESC plan (where applicable).