

CHAPTER 11
EROSION CONTROL CRITERIA

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CHAPTER 11 EROSION CONTROL CRITERIA

11.1 GENERAL

Erosion control plans, details, and notes shall be made part of the construction plans and be processed for approval with the construction plans.

11.2 CRITERIA

11.2.1 Storm Drainage Erosion

Urban Drainage and Flood Control District's *Urban Storm Drainage Criteria Manual*, Volume 3, shall be used for erosion control criteria in the Town. Erosion from snow melt shall be considered in preparation of erosion control plans.

11.2.2 Wind Erosion

Although wind erosion may not be a major erosion and sediment control problem in heavily treed areas, wind erosion shall be addressed in the erosion control plans. Areas which are exposed for over thirty days without construction activity will require wind erosion protection. At a minimum, these areas will require revegetation with mulch, fertilizer, and an approved seed mix. In some situations, snow fences may be required to minimize wind erosion. In active construction areas and during dry periods, a regular schedule for site watering may be required.

11.3 PHASING PLAN

The erosion control plans shall address the different phases of construction, at a minimum those listed below.

11.3.1 **Initial Phase**--Structures and facilities required to be installed prior to the start of any construction.

11.3.2 Construction Phases

11.3.2.1 During grading operation

11.3.2.2 During utility construction

11.3.2.3 After storm sewer construction

11.3.2.4 After pavement construction

11.3.3 After Construction

At completion of construction but prior to complete revegetation phase.

11.4 MAINTENANCE OF FACILITIES

11.4.1 Periodic Maintenance and Inspection

The developer or land owner shall be responsible for performing, or causing to be performed, periodic inspection of erosion control facilities to ensure proper operation of erosion control facilities. Periodic removal of silt and sediment will be required for these facilities to operate properly throughout the total construction sequence. Even after construction is completed and prior to the establishment of mature vegetation, removal of silt and sediment will be required.

11.4.2 Storm Event Maintenance and Inspection

After every storm event, erosion control facilities shall be inspected. Based on this inspection, these facilities shall be repaired, cleaned, or replaced as needed to maintain functional erosion control. In some situations, additional erosion control facilities may be required (over and above what is shown on the erosion control plans) to provide adequate erosion control. The owner and/or developer shall be required to install these additional erosion control facilities.

11.5 PROPER INSTALLATION

There are several common installation problems which could cause more erosion than if the facility were never installed. The following is a list of some of these problem areas.

11.5.1 Straw bales laid on top of the ground and not partially buried

11.5.2 Silt fence not partially buried

11.5.3 Straw bales installed forcing drainage around the side of straw bales instead of over the top of the straw bale. In shallow swales it is almost impossible to obtain proper installation of straw bales. An alternative would be to use sand bags (+/- 6 inches high) or bury the straw bales deeper.

11.5.4 At times, inlets are so protected or plugged that water ponds and finds another path causing more erosion than letting the inlet function. Consider the depth of ponding at inlets. Drainage should pond at inlets, then overtop the erosion control structure (sand bags, milk cartons, gravel, etc.) and enter the inlet without finding an alternate path.

11.5.5 Snow storage blocking erosion control structures during the spring months.

11.6 FINAL APPROVAL OF DRAINAGE CONSTRUCTION

Before a release of Drainage Guarantee (Exhibit A), Certificate of Occupancy and/or final building permit will be granted, the site drainage shall be inspected for compliance with the approved drainage plan and/or site plan.