

TOWN OF AJAX

DESIGN CRITERIA

SECTION L

SEDIMENT AND EROSION CONTROL

L 1.00 SCOPE

New urban developments generally produce increased sediment loading to the surrounding streams, particularly during construction. In order to avoid the inherent detrimental side effects from development (i.e. poor water quality and aesthetics, restricted channel conveyance, etc.), sediment control measures shall be instituted. Some of these measures typically include, sediment traps (temporary or permanent), vegetation screens and protection hoarding, catch basin filter bags, and phased stripping of developable lands. In all cases, it is recommended that sediment loading be controlled as per guidelines published by the local Conservation Authority and the Greater Golden Horseshoe Area Conservation Authorities' "Erosion and Sediment Control Guideline for Urban Construction", 2006. Additional information may be obtained from the National Guide to Erosion and Sediment Control on Roadway Projects, May 2006, which may be obtained from the Transportation Association of Canada (TAC).

Copies of "Erosion and Sediment Control Guideline for Urban Construction", 2006 are available at the Toronto Region Conservation Authority Website <http://www.trca.on.ca>.

Regulations governing sediment and erosion control fall under the jurisdiction of all levels of government and agencies and include, but are not limited to the following legislation

- Federal Fisheries Act
- Navigable Waters Protection Act (NWPA)
- Canadian Environmental Assessment Act (CEAA)
- Species at Risk Act
- Lakes and Rivers Act
- Provincial Policy Statements
- Planning Acts
- Ontario Water Resources Act (OWRA)
- Oak Ridges Moraine Conservation Plan Act
- The Greenbelt Act
- Conservation Authorities Act (CAA) - Development, Interference with Wetlands, and Alterations to Shorelines and Watercourses Regulation under Section 28(1)

Sediment and Erosion Control permits allow developers to work onsite prior to an agreement and/or all approvals being in place (i.e. clearing and grubbing, grading, stripping, etc.). The Town of Ajax By-law Number 53-2006, as amended from time to time, outlines the municipal requirements for obtaining said permit.

It is the Owner's responsibility to obtain the most current version of the by-law, permit requirements, and submit the application to the Planning and Development Department.

L 1.01 REPORT AND DESIGN

The Sediment and Erosion Control Plans shall support the information provided in the Stormwater Management Report. The report and plans shall be signed and stamped by a Professional Engineer.

As a minimum all Sediment and Erosion Control Plans should address the items included in Tables 2 and 3 of the "Erosion and Sediment Control Guideline for Urban Construction (2006 or latest amendment)". All Sediment and Erosion Control Plans should also address and/or provide locations and details for the following: mud mats, silt fences, temporary swales, temporary ponds, and tree preservation zones.

The Sediment and Erosion Control Plan is to show all calculations and requirements for erosion

and sediment control before, during, and after construction when not included in the accompanying Stormwater Management Report.

L 2.00 **PROCEDURE**

The base drawing for this Plan is to be the Lot and Rough Grading Plan. The plan(s) size shall be A1 and at a 1:500 scale for single family development or 1:200 scale for multiple family or ICI developments. Superimposed on these drawings, the Engineer is to indicate any temporary and/or permanent control devices and/or ditches and ponds required to keep all materials and surface runoff contained on site.

Quantity calculations, dimensions, and construction materials shall be shown on the Sediment and Erosion Control Plan.

All permanent sediment and erosion control devices are to be shown on the Plan and Profile Drawing while any temporary construction is to be shown on the Sediment and Erosion Control Plan.

L 3.00 **IMPLEMENTATION**

The Sediment and Erosion Control Plan must be submitted with the final submission of the Plan and Profile Drawings. The Plan must also be approved by the local conservation authority before any earthwork begins on the site.