

# CHAPTER 5

## DEVICE STANDARDS AND SPECIFICATIONS

**5.1 GENERAL** - This chapter provides standards and specifications for the design, construction, and maintenance of BMPs for the control of sediment from land disturbing activities. These devices are primarily for the control of sediment caused by storm water induced erosion and will generally be accepted by City of Plano design review staff if they are properly designed and used.

The design and use of BMPs is a very new idea that is still going through many significant changes. Consultants should make sure that they understand how and where a sediment or erosion control device is supposed to be used before specifying it on their plans. The use of new devices and ideas for sediment or erosion control will be accepted for review, if accompanied by adequate supporting information. Also, always check with the reviewing authority to make sure that this Manual is up-to-date prior to proceeding with specific plan preparation.

All persons involved in erosion and sediment control must also realize that there are a variety of different names commonly used for the same or similar type structures. Different jurisdictions also may have different design standards. This Manual will give the user assistance in both areas when dealing with the City of Plano. Consultants will be required to be specific on their erosion control plans and contractors will be required to construct to the City of Plano details.

Each sediment control device in this chapter is placed in a section by itself with the following information provided: Description, Purpose, Application, Limitations, Design Criteria, Material Specifications, Maintenance Requirements, and a Detail. This format will place all of the information relative to a specific device all in one location for use by the designer, contractor, inspector, and plan reviewer.

Material specifications listed in this Chapter use the latest versions of the North Central Texas Council of Governments, Standard Specifications for Public Works Construction, the City of Plano, Special Provisions to Standard Specifications for Public Works Construction and the Texas Department of Transportation, Standard Specifications for Construction of Highways, Streets and Bridges to the maximum extent possible. With the relative newness of this type of work in the North Texas region, there will certainly be many changes in the future. Users must be sure that they are using an up-to-date version of the manual to avoid delays in project approval.

Most all devices listed in this Manual will require maintenance, including sediment cleanout and removal, at some time during the construction process. Unless special provisions have been made, this sediment should be disposed of on site, with proper BMP protection, and stabilized with permanent ground cover prior to final approval of a site. Material can be disposed of off-site, but the area used for disposal becomes a part of the construction site by definition and will require erosion control devices and stabilization prior to finalizing the project. Maintenance inspections are the responsibility of the Contractor performing the work on site. City inspection staff will make periodic inspections to enforce compliance and are available to assist the Contractor on a case-by-case basis for particularly difficult situations.

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