

#### ECM 1.6.5A.4

##### Underdrain Piping.

The minimum grade of piping shall be one-eighth (1/8) inch per foot (one (1) percent slope). Access for cleaning all underdrain piping is needed. Cleanouts with a removable PVC cap are required within fifty (50) feet of every portion of lateral, at collector drain lines, and at every bend. In order to minimize damage to these cleanouts due to maintenance equipment, vandalism, and mowing set the top of the cleanout flush with the top of the sand bed. At least one lateral must be accessible for cleaning when the pond is full. The full pond cleanout should extend above the water quality elevation and/or be located outside of the water quality volume ponding area. In order to minimize vandalism or other types of damage to this full pond cleanout the use of exposed piping shall be avoided or minimized. ~~For Partial Sedimentation/Filtration systems only, install a removable PVC cap with an appropriately sized orifice at the end of the underdrain pipe in order to provide a forty-eight (48) hour drawdown time, to account for significant uncertainties to the actual filtration media hydraulic conductivity over the life of the system.~~

#### ECM 1.6.5B.3

Sand Filtration Basin Details (see Section 1.6.5(A)(4)). See Figure 1-58 for flow diffuser outlet detail. In addition, install a removable PVC cap with an appropriately sized orifice at the end of the underdrain pipe in order to provide a forty-eight (48) hour drawdown time, to account for significant uncertainties to the actual filtration media hydraulic conductivity over the life of the system.