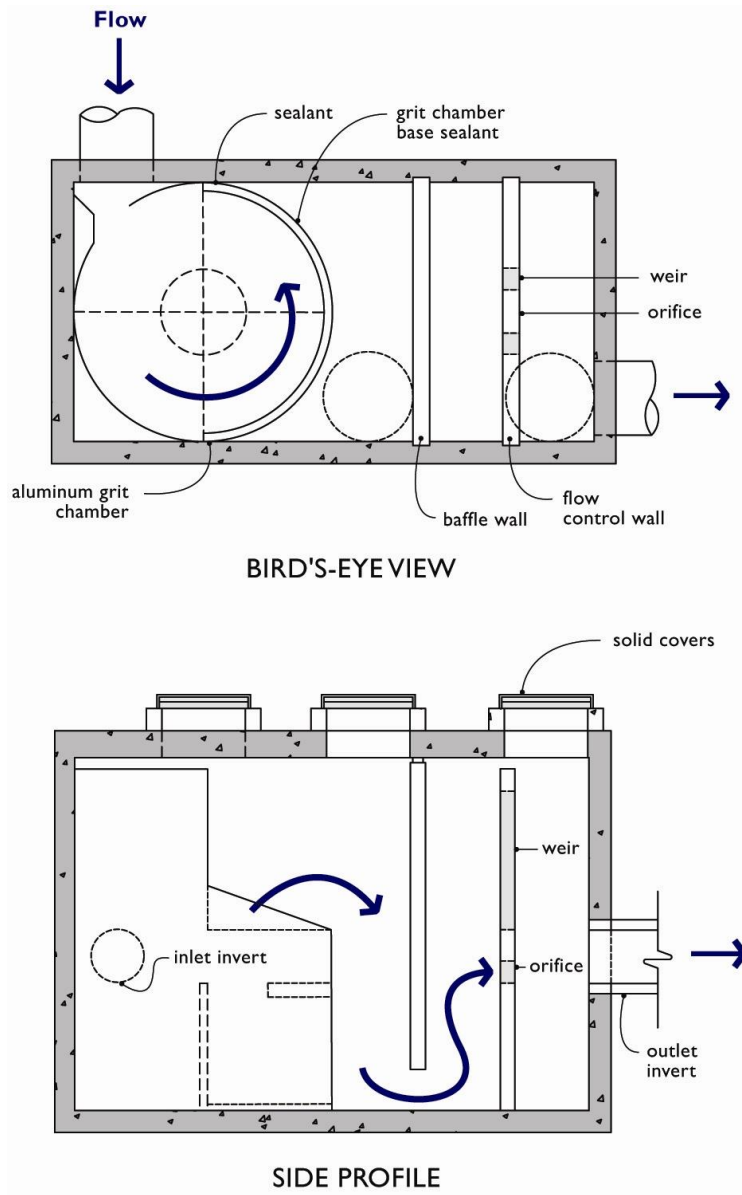


3.23 Vortechs® Stormwater Treatment System

Vortex-enhanced Sedimentation consists of a cylindrical vessel where the inlet flow spirals around the perimeter in a vortex-type action causing the heavier particles to settle out of the stormwater. It uses a vortex-enhanced settling mechanism (swirl-concentration) to capture settleable solids, floatables, and oil and grease.

Vortechs® treatment units are a proprietary manufactured system. See manufacturer's publications for additional maintenance information.



3.23 Vortechs Stormwater Treatment System Checklist

Frequency	Drainage System Feature	Date				Problem	Conditions to Check For	Conditions That Should Exist
		✓	✓	✓	✓			
MONTHLY, STORM	General					Sediment accumulation	Sediment depth is within 6" of dry weather water surface elevation.	Accumulated sediment should be removed.
MONTHLY, STORM	General					Trash and Debris Accumulation	Trash and debris accumulated in vault, or pipe inlet/outlet, floatables and non-floatables.	Trash and debris removed from vault, and inlet/outlet piping.
MONTHLY, STORM	General					Oil Accumulation	Oil accumulation that exceeds 1- inch at the water surface.	Oil is extracted from vault using vactoring methods. Coalescing plates are cleaned by thoroughly rinsing and flushing. Should be no visible oil depth on water.
ANNUAL	Structure					Damaged Pipes	Inlet or outlet piping damaged or broken and in need of repair.	Pipe repaired and or replaced.
ANNUAL	Structure					Baffles	Baffles corroding, cracking, warping and/or showing signs of failure as determined by maintenance/inspection person.	Baffles repaired or replaced to specifications.
ANNUAL	Structure					Vault Structure Damage - Includes Cracks in Walls, Bottom, Damage to Frame and/or Top Slab	Cracks wider than 1/2-inch or evidence of soil particles entering the structure through the cracks, or maintenance/inspection personnel determine that the vault is not structurally sound.	Vault replaced or repairs made so that vault meets design specifications and is structurally sound.
ANNUAL	Structure					Vault Structure Damage - Includes Cracks in Walls, Bottom, Damage to Frame and/or Top Slab	Cracks wider than 1/2-inch at the joint of any inlet/outlet pipe or evidence of soil particles entering through the cracks.	Vault repaired so that no cracks exist wider than 1/4-inch at the joint of the inlet/outlet pipe.

If you are unsure whether a problem exists, please contact a Professional Engineer.

Comments:

Key:

(MONTHLY) Monthly from November through April.

(ANNUAL) Once in late summer (preferable September)

(STORM) After any major storm (use 1-inch in 24 hours as a guideline).