

# Control Structure/Flow Restrictor

Date Inspected \_\_\_\_\_

Drainage System Feature	Potential Defect	Conditions When Maintenance Is Needed	Results Expected When Maintenance Is Performed Or Not Needed	<input checked="" type="checkbox"/>
General	Trash and Debris (Includes Sediment)	Material exceeds 25% of sump depth or one foot below orifice plate.	Control structure orifice is not blocked. All trash and debris removed.	<input type="checkbox"/>
	Structural Damage	Structure is not securely attached to manhole wall.	Structure securely attached to wall and outlet pipe.	<input type="checkbox"/>
		Structure is not in upright position (allow up to 10% from plumb).	Structure in correct position.	<input type="checkbox"/>
		Connections to outlet pipe are not watertight and show signs of rust.	Connections to outlet pipe are watertight; structure repaired or replaced and works as designed.	<input type="checkbox"/>
		Any holes – other than designed holes – in the structure.	Structure has no holes other than designed holes.	<input type="checkbox"/>
Cleanout Gate	Damaged or Missing	Cleanout gate is not watertight or is missing.	Gate is watertight and works as designed.	<input type="checkbox"/>
		Gate cannot be moved up and down by one maintenance person.	Gate moves up and down easily and is watertight.	<input type="checkbox"/>
		Chain/rod leading to gate is missing or damaged.	Chain is in place and works as designed.	<input type="checkbox"/>
		Gate is rusted over 50% of its surface area.	Gate is repaired or replaced to meet design standards.	<input type="checkbox"/>
Orifice Plate	Damaged or Missing	Control device is not working properly due to missing, out of place, or bent orifice plate.	Plate is in place and works as designed.	<input type="checkbox"/>
	Obstructions	Any trash, debris, sediment, or vegetation blocking the plate.	Plate is free of all obstructions and works as designed.	<input type="checkbox"/>
Overflow Pipe	Obstructions	Any trash or debris blocking (or having the potential of blocking) the overflow pipe.	Pipe is free of all obstructions and works as designed.	<input type="checkbox"/>
Manhole	Cover Not in Place	Cover is missing or only partially in place. Any open manhole requires maintenance.	Manhole is closed.	<input type="checkbox"/>
	Locking Mechanism Not Working	Mechanism cannot be opened by one maintenance person with proper tools. Bolts into frame have less than 1/2 inch of thread (may not apply to self-locking lids).	Mechanism opens with proper tools.	<input type="checkbox"/>
	Cover Difficult to Remove	One maintenance person cannot remove lid after applying normal lifting pressure. Intent is to keep cover from sealing off access to maintenance.	Cover can be removed and reinstalled by one maintenance person.	<input type="checkbox"/>
	Ladder Rungs Unsafe	Ladder is unsafe due to missing rungs, misalignment, not securely attached to structure wall, rust, or cracks.	Ladder meets design standards. Allows maintenance person safe access.	<input type="checkbox"/>
General	Trash and Debris	Trash or debris which is located immediately in front of the catch basin opening or is blocking inletting capacity of the basin by more than 10%.	No trash or debris located immediately in front of catch basin or on grate opening.	<input type="checkbox"/>

Drainage System Feature	Potential Defect	Conditions When Maintenance Is Needed	Results Expected When Maintenance Is Performed Or Not Needed	<input checked="" type="checkbox"/>
General	Trash and Debris	Trash or debris (in the basin) that exceeds 60% of the sump depth as measured from the bottom of basin to invert of the lowest pipe into or out of the basin, but in no case less than a minimum of six inches clearance from the debris surface to the invert of the lowest pipe.	No trash or debris in the catch basin.	<input type="checkbox"/>
		Trash or debris in any inlet or outlet pipe blocking more than 1/3 of its height.	Inlet and outlet pipes free of trash or debris.	<input type="checkbox"/>
		Dead animals or vegetation that could generate odors that could cause complaints or dangerous gases (e.g., methane).	No dead animals or vegetation present within the catch basin.	<input type="checkbox"/>
	Sediment	Sediment (in the basin) that exceeds 60% of the sump depth as measured from the bottom of basin to invert of the lowest pipe into or out of the basin, but in no case less than a minimum of six inches clearance from the sediment surface to the invert of the lowest pipe.	No sediment in the catch basin.	<input type="checkbox"/>
	Structure Damage to Frame and/or Top Slab	Top slab has holes larger than two square inches or cracks wider than 1/4 inch (Intent is to make sure no material is running into basin).	Top slab is free of holes and cracks.	<input type="checkbox"/>
		Frame not sitting flush on top slab, i.e., separation of more than 3/4 inch of the frame from the top slab. Frame not securely attached.	Frame is sitting flush on the riser rings or top slab and firmly attached.	<input type="checkbox"/>
	Fractures or Cracks in Basin Walls/ Bottom	Maintenance person judges that structure is unsound.	Basin replaced or repaired to design standards.	<input type="checkbox"/>
		Grout fillet has separated or cracked wider than 1/2 inch and longer than one foot at the joint of any inlet/outlet pipe or any evidence of soil particles entering catch basin through cracks.	Pipe is regouted and secure at basin wall.	<input type="checkbox"/>
	Settlement/ Misalignment	If failure of basin has created a safety, function, or design problem.	Basin replaced or repaired to design standards.	<input type="checkbox"/>
	Vegetation	Vegetation growing across and blocking more than 10% of the basin opening.	No vegetation blocking opening to basin.	<input type="checkbox"/>
		Vegetation growing in inlet/outlet pipe joints that is more than six inches tall and less than six inches apart.	No vegetation or root growth present.	<input type="checkbox"/>
	Contaminants and Pollution	Any evidence of oil, gasoline, contaminants or other pollutants (Coordinate removal/cleanup with local water quality response agency).	No contaminants or pollutants present.	<input type="checkbox"/>