Checklist

Print Form

Article VI: Detention Pond Requirements

Development Name _____
Address _____
_____

Developer's Name _____
Address _____
_____

Engineer's Name _____
Address _____
_____

Owner's Name _____
Address _____
_____

Please indicate that you have completed each task as necessary by typing "X" in the appropriate gray box. Submit a copy of the checklist with the application.

General Requirements

__ The time of concentration within the detention basin is set at zero minutes.
__ Total impervious area within a development includes the area of the detention basin.
__ Drainage runoff from a tract is directed to an existing public right-of-way or an existing drainage easement.
__ Detention basin has a maintenance berm clear and free of all other easements or encroachments, in accordance with the following guidelines for all detention basins serving a single property owner:

Depth (ft)	Side Slope (h:v)	Berm Width (ft)
<3.0	3:1	10
	4:1	10
3.1 – 6.0	3:1	15
	4:1	15
6.1 – 9.0	3:1	20
	4:1	15
>9.0	3:1	30
	4:1	20

__ A detention basin either owned and/or operated by a public entity or quasi-public entity and serving two or more property owners has a maintenance berm clear and free of all other easements or encroachments, in accordance with the following guidelines:

Depth (ft)	Side Slope (h:v)	Berm Width (ft)
<3.0	3:1	20
	4:1	15
3.1 – 6.0	3:1	20
	4:1	20
6.1 – 9.0	3:1	30
	4:1	20
>9.0	3:1	30
	4:1	30

Dry bottom detention basins meet all of the following criteria:

__ Inlet and outlet structures have approved erosion control measures.
__ Concrete pilot channel has minimum slope of 0.10%.
__ Bottom of the basin has minimum side slope of 1.0%
__ Side slopes in accordance with Paragraph C.1 or C.2.
__ Emergency spillway designed to pass the 100-year release rate within limits of detention basin freeboard.
__ Designed with 6” of freeboard above maximum water surface elevation.

Wet bottom basins meet all of the following criteria:

__ Inlet structures below normal water surface elevation.
__ Inlet and outlet structures have approved erosion control measures.
__ Side slopes below normal water surface elevation basin a minimum of 3:1 (H:V).
__ Side slopes between top bank and normal pool elevation may be increased to a minimum of 6:1 (H:V) to reduce berm width outside top bank to 15 feet for basins under Paragraph C.1 or C.2.
__ Emergency spillway designed to pass 100-year release rate within limits of detention basin freeboard.
__ Designed with 6" of freeboard above the maximum water surface elevation.

For detention basins constructed with side slopes less than 3:1 (H:V), the following conditions must be met:

__ Property owned and occupied by same person and business.
__ Minimum maintenance berm width 10 feet for basins with depth <= 6 feet and 15 feet for depths > 6 feet.
__ Secured with >= 6 ft tall chain link fence and locked gate with 3 strands of intruder wire.
__ Permanent walls constructed of concrete or masonry materials, or other materials approved by District.
__ Geotechnical report submitted certifying to stability of basin walls.

Pumped detention may be approved under the following conditions:

__ Redundant capacity shall be built within the pump station.
__ Emergency spillway is designed to pass the 100-year release rate within the limits of the detention basins freeboard.
__ Surface drainage directed to the basin by a backswale channel or other District approved structure.

Ownership and Maintenance Responsibilities

__ Provide a copy of the legal documents for the creation of any quasi-public entity responsible for the operation and maintenance of a detention basin.
__ Provide a copy of a projected expense and revenue budget for adequate maintenance of the detention basin.
__ The Owner has executed an agreement for the maintenance and operation of the detention basin.