Delaware Department of Transportation Bioretention Facility Construction Checklist

This checklist has been designed for (insert type) in accordance with the Delaware Sediment and Stormwater Program's Post Construction Stormwater BMP Standards and Specifications

Contract No.:		D.:	Contract Name:	
Contractor: CCR Name:			Contractor Project Supt.: CCR No.:	
Const	tructio	n Dates & Time:	_	
I. P	A.	Item not applic nstruction Pre-Con meeting h	neld.	dolinantad & gagge prohibited by begyn agricument
	В.		_	delineated & access prohibited by heavy equipment.
	C.	Upstream drainage		diverted.
	D.	Materials on-site a	nd verified.	
		1. Underdrain/d	lischarge pipe	
		2. Outlet structu	ure.	
		_ 3. Undrain ston	ie	
		4. Filter fabric ((if applicable)	
		5. Approved so	il media (2014 Bio	pretention Mix)
		6. Plant Materia		ade available upon final stabilization of the facility as

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Contract No.: BMP No.: CCR Name:		.: Contract Name:
		BMP Location:
		CCR No.:
II.	Exca	
	_ A	. Facility excavated to dimensions and at location as per the approved plan.
	В	Infiltration Bioretention facilities stepwise excavation. (Note: Excavate the portion of Bioretention facility that may be backfilled with approved soil media in the same day.)
	C	. Facility excavated from the sides as per the approved plan
	D	Groundwater <u>not</u> encountered during excavation. (Note: If groundwater is encountered during the excavation process, construction of the Facility must cease and the designer notified.)
	E	. Vertical excavation of sides.
	 F	. Bottom excavation elevation as per the approved plan.
	— G	. Bottom & sides scarified prior to placement of approved soil media.
III.		ctural Components (Bioretention facilities containing underdrains and/or pipe discharge ponents.)
	-	A. Discharge pipe installed from outlet structure to discharge point.
		Discharge Pipe diameter:
		Discharge Pipe material:
	I	3. Outlet protection provided at discharge point.
	(Outlet Structure installed at elevations as per the approved plan. (Minimum of 6" higher than top elevation of approved soil media as per the approved plan.)
	I	Underdrain pipe material according to the approved plan. (Note: If underdrain pipe material is not specified, it shall be SDR 35 minimum)
		Underdrain Pipe material:
	1	E. Underdrain pipe sizes according to approved plans.
		Discharge Pipe diameter(s):
]	Underdrain pipe perforations according to approved plans. (Note: If not specified on the plan, three rows of 5/8" diameter perforations, 6" on- center, shall be provided)
		G. Underdrain piping lay flat or with positive slope toward outlet.

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		BMP Location:		
CCR Name:		CCR No.:		
	Н.	Clean-out and/or observation port provided at the endpoint of underdrain pipes.		
	I.	Double-washed crushed aggregate, clean DE No. 57 stone, used for the underdrain gravel. Stone free of rock dust, fines and soil particles.		
	J. 3" minimum specified gravel cover over underdrain pipe.			
	K.	Filter fabric (<i>if applicable</i>) installed between the underdrain gravel layer and the approved soil media as per the approved plan.		
IV. C	- -			
IV. G	rraum			
	A.	Channel protection and/or level spreader provided at inlet to bioretention facility as per the approved plan		
	В.	Side slopes \leq 3:1 above the approved soil media.		
	C.	Top of berm constructed as per the approved plan.		
	D.	Earthen spillway constructed as per the approved plan.		
V. Bioretention Soil Media				
	A.	Approved soil media provided per the latest revision of the DNREC policy.		
	B.	No equipment is permitted in the infiltrating area of the facility.		
	C.	Approved soil media placed in one-foot lifts and spread evenly.		
	D.	Approved soil media placed simultaneously with excavation process to prevent contamination of the infiltrating area of the facility.		
	Е.	Final lift of the approved soil media will not be placed until a minimum of one-storm event occurs.		
	F.	Approved soil media will be not less than 36" depth or as specified in the approved plan.		
	G.	Top-dress final elevation of approved soil media with 3" of triple-shredded aged hardwood mulch or as per the approved plan.		

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BMP No.:	BMP Location:				
CCR Name:	CCR No.:				
VI. Vegetation					
A. Vegetation installed	as per the approved plan.				
B. Plant material occup the facility.	pies not greater than 50% of total surface area of infiltrating area of				
C. Trees installed only	Trees installed only around facility permimeter.				
VII. Erosion and Sediment Control					
A. SF perimeter control stabilization of draw	SF perimeter control installed around the infiltrating layer. (Do not remove until full stabilization of drainage area to the facility.)				
B. Inlet protection inst	talled & maintained discharging to the facility.				
Comments (Date & Initial)					