

TECHNO-GRAM 003-2025



SUBJECT: Department of Public Works and Transportation (DPW&T)'s

Standard Bioswale and Micro-Bioretention Details

PURPOSE: The purpose of this techno-gram is to publish the County's

Standard Micro-Bioretention Details issued by DPW&T

SCOPE: This applies to the Department of Permitting,

Inspections and Enforcement (DPIE)'s Site/Road Plan Review Division (S/RPRD)'s Street Construction, Site Development Fine Grading, and Utility Permits

This techno-gram publishes the new Standard Micro-Bioretention Details developed and issued by DPW&T dated July 2, 2025. These details will be included in the Prince George's County DPW&T Specifications and Standards for Roadways and Bridges manual.

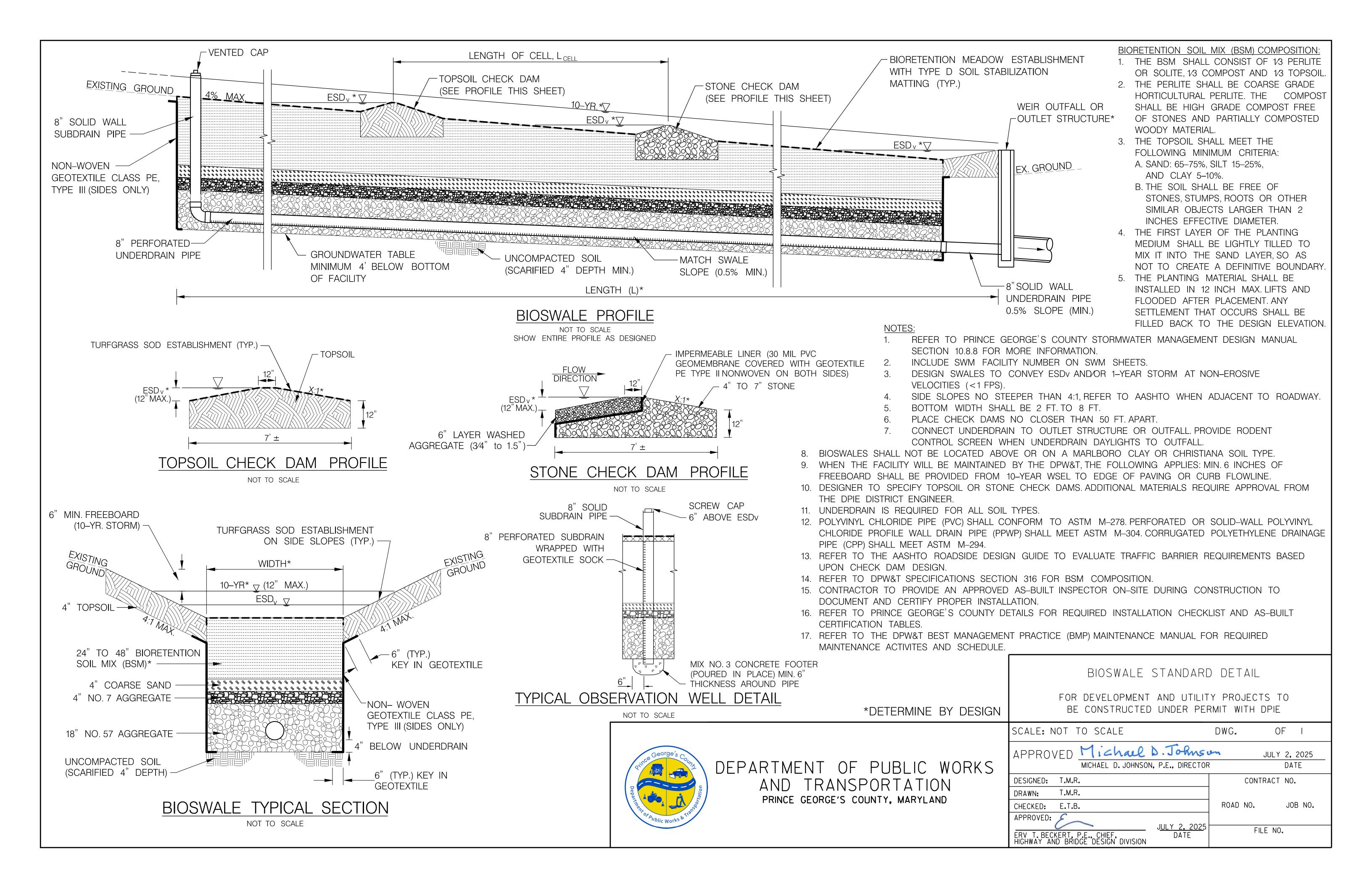
The attached Bioswale and Micro-Bioretention Standard Details shall be utilized to construct stormwater management micro-bioretention devices. Effective immediately, these details shall be included on permit plans that include micro-bioretention.

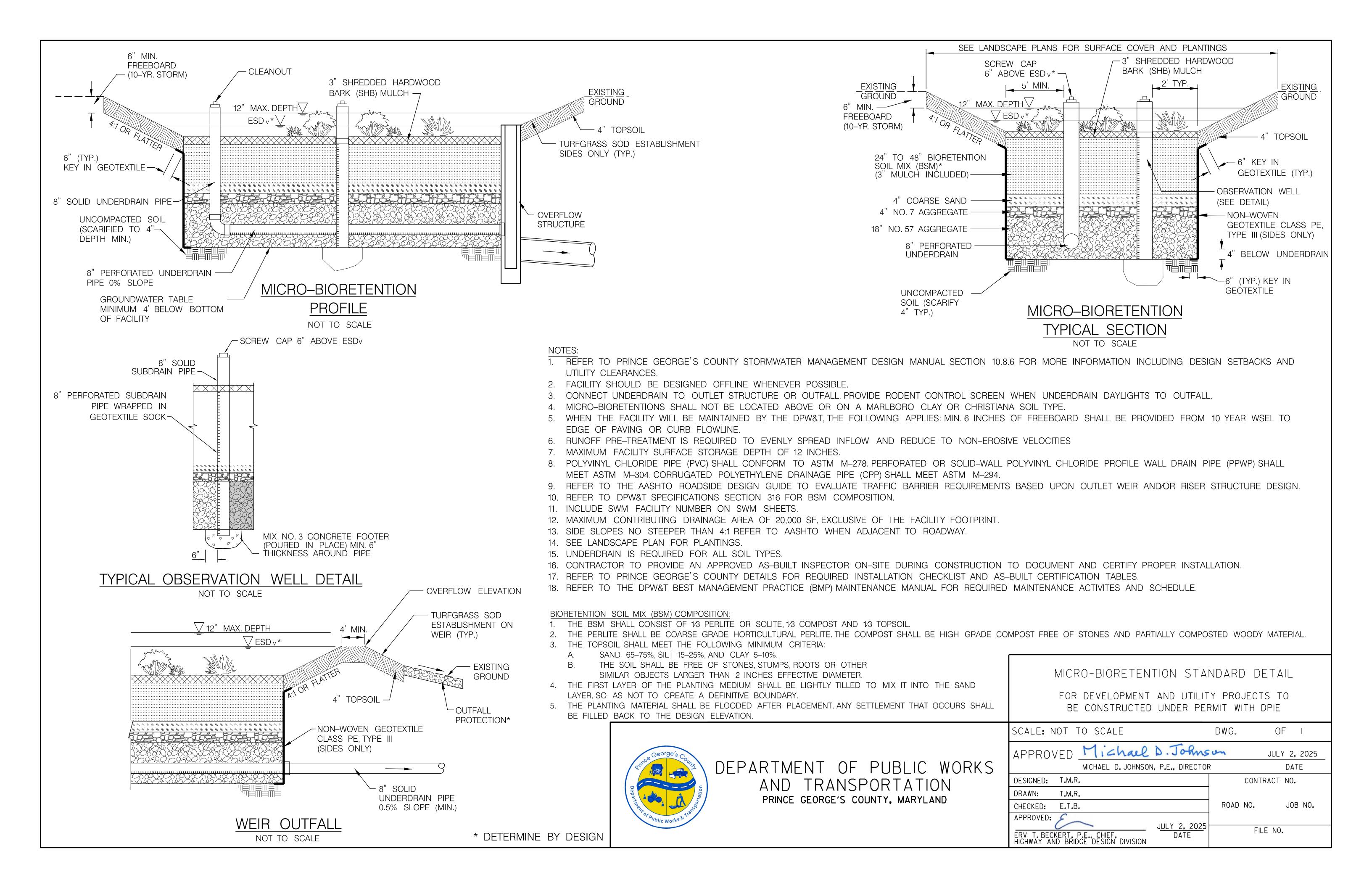
APPROVED BY:

awit Abraham (Aug 4, 2025 09:56:22 EDT)

Dawit Abraham, P.E. Director

August 1, 2025





As-Built Inspection Tabulations/Checklist for BMP Number: DPIE No.:		
Accepted by DPIE:		
Name	Date	

MICRO-BIORETENTION TABULATIONS

ACTIVITY	DESIGNED	AS-BUILT	DIFFERENCE	INSPECTOR INITIALS	ACCEPTANCE DATE
As-Built Survey	N/A	N/A	N/A		
Filter Bed Area					
Filter Bed Surface Elevation					
Side Slopes					
Overflow / Outfall Weir Elevation					
ESDv Elevation					
Max. Ponding Depth					
Freeboard (10-yr Storm)					
Mulch Layer Thickness					
BSM Layer Thickness					
Sand Layer Thickness					
No. 7 Stone Layer Thickness					
No. 57 Stone Layer Thickness					
Inlet Pipe Size (if applicable)					
Inlet Pipe Elevation (if applicable)					
Underdrain Diameter					
Underdrain Elevation					
Underdrain Slope					
Underdrain Outlet Elevation					
Underdrain Cleanout Cap Elevation					
Observation Well Cap Elevation					
Total ESDv Provided					

As-Built Inspection Tabulations/Checklist for BMP Number: DPIE No.:			
Accepted by DPIE:			
Name	Date		

BIOSWALE TABULATIONS

ACTIVITY	DESIGNED	AS-BUILT	DIFFERENCE	INSPECTOR INITIALS	ACCEPTANCE DATE
As-Built Survey	N/A	N/A	N/A		
Swale Length					
Swale Width					
Swale Longitudinal Slope					
Filter Bed Area					
Side Slopes					
Overflow / Outfall Weir Elevation					
ESDv Depth					
10-yr Storm Depth					
Max. Check Dam Height					
Freeboard (10-yr Storm)					
BSM Layer Thickness					
Sand Layer Thickness					
No. 7 Stone Layer Thickness					
No. 57 Stone Layer Thickness					
Inlet Pipe Size (if applicable)					
Inlet Pipe Elevation (if applicable)					
Underdrain Diameter					
Underdrain Elevation					
Underdrain Slope					
Underdrain Outlet Elevation					
Underdrain Cleanout Cap Height					
Observation Well Cap Height					
Total ESDv Provided					

BIOSWALE AND MICRO-BIORETENTION AS-BUILT TABLES

FOR DEVELOPMENT AND UTILITY PROJECTS TO BE CONSTRUCTED UNDER PERMIT WITH DPIE



SCALE: NOT TO SCALE	DWG.	OF I
APPROVED MICHAEL D. JOHNSON, P.E., DIRECTOR		JULY 2, 2025 DATE
DESIGNED: T.M.R.	CONT	RACT NO.
DRAWN: T.M.R.		
CHECKED: E.T.B.	ROAD NO.	JOB NO.
APPROVED:		
ERV T. BECKERT, P.E., CHIEF, DATE HIGHWAY AND BRIDGE DESIGN DIVISION	FIL	_E NO.

As-Built Inspection Tabulations/Checklist for BMP Number: DPIE No.:			
Accepted by DPIE:			
Name	 Date		

MICRO-BIORETENTION AND BIOSWALE CONSTRUCTION CHECKLIST

	ON SITE INSPECTION	INSPECTOR	ACCEPTANCE
Runoff Diverted	DATE	INITIALS	DATE
Drainage area stabilized prior to allowing runoff to enter			
Facility area cleared			
Facility location staked out			
Excavated to proper size and location*			
Stable side slopes			
Lateral slopes finished according to plans			
Subsoils scarified to a 4" minimum depth*			
Subsoils not compacted during construction*			
Underdrain system and observation well installed according to plans*			
BSM tested and approved according to specifications			
BSM placed according to plans*			
Placement of geotextile according to plans*			
Placement of sand layer*			
Placement of No. 7 stone layer*			
Plantings installed according to plans (if applicable)*			
Mulch Layer installed according to plans (if applicable)*			
Maintenance access installed according to plan and details			
(if applicable)*			
Final grading and permanent stabilization completed			

^{*} As-Built Inspector required to perform inspection on site for these steps as required by COMAR 26.17.02.10

STORMWATER MANAGEMENT AS-BUILT CERTIFICATION

I hereby certify to the best of my knowledge and belief that this As-Built truly represents existing field conditions including but not limited to sizes, diameters, line and grade, elevations, and volumes. The stormwater management facility (facilities) shown on the plans and individually identified below has (have) been constructed in accordance with the plans included under the Prince George's County Department of Permitting, Inspections and Enforcement (DPIE) Permit No. _ except as noted in green on the "AS BUILT" drawings. Furthermore, the green-noted exceptions do not adversely affect the design and/or the intended performance of the facility (facilities). Facility Identification (Identify Each Facility Individually by BMP Number) Name (Printed) Signature Maryland Registration Number Date

(SEAL)

"Certify" means to state or declare a professional opinion based on sufficient and appropriate onsite inspections and material tests conducted during construction

NOTE: AS-BUILT CHECKLISTS CONTAINED IN THE CONTRACT DRAWINGS SHALL BE COMPLETED BY THE AS-BUILT INSPECTOR AND SUBMITTED TO DPIE ALONG WITH THIS CERTIFICATION AND IT IS UNDERSTOOD THAT THEY MUST BE APPROVED PRIOR TO "FINAL INSPECTION."

> BIOSWALE AND MICRO-BIORETENTION INSTALLATION CHECKLIST

FOR DEVELOPMENT AND UTILITY PROJECTS TO BE CONSTRUCTED UNDER PERMIT WITH DPIE

DATE

SCALE: NOT TO SCALE APPROVED Michael D. Johnson

JULY 2, 2025 DATE

FILE NO.

OF I

JOB NO.

MICHAEL D. JOHNSON, P.E., DIRECTOR DESIGNED: T.M.R. CONTRACT NO. T.M.R. DRAWN: ROAD NO. CHECKED: E.T.B. APPROVED: JULY 2, 2025

DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION PRINCE GEORGE'S COUNTY, MARYLAND

SIGN DIMENSIONS: 6" X 8" MINIMUM

STORMWATER
MANAGEMENT
AREA

DO NOT DISTURB

NO MOTORIZED VEHICLES OR EQUIPMENT

PRINCE GEORGE'S COUNTY
PERMITTING, INSPECTIONS AND
ENFORCEMENT
301-636-2020