Grassed Channel
Construction Checklist

This checklist has been developed for BMPs designed in accordance with the Delaware Sediment and Stormwater Program's Post Construction Stormwater BMP Standards and Specifications. Submit interim versions of this construction checklist to the approval agency weekly with the Certified Construction Reviewer report. Submit the final completed checklist with the PCVD.

PROJECT INFORMATION

Project Name/BMP Name: _____

Project Approval Number: _____ NOI number:_____

Location:_____

Contractor:_____

Construction Reviewer:_____

Supervising P.E.:_____

For each checklist item, enter in the blank the date (MM/DD/YY) the item is completed and verified by the construction reviewer. If an item is not applicable, enter "N/A" in the blank for that checklist item.

I. Pre-Construction

A._____Grassed channel field meeting with responsible person and person completing construction checklist

B._____Extents of grassed channel (to include pretreatment area) delineated and access by equipment prohibited with Sensitive Area Protection (SAP) to prevent compaction of existing soils.

C._____Equipment on the site large enough to excavate grassed channel from the sides of the facility.

D._____ Pervious areas draining to the grassed channel stabilized in accordance with the approved plans.

E._____Pipe and appurtenances on-site and dimensions and properties checked and confirmed to be in accordance with the approved plan.

i._____ Discharge pipe

ii._____ Inflow pipe

iii._____ Underdrain pipe, *if applicable*

iv._____ Other; list:_____

F._____Materials on-site and dimensions and properties checked and confirmed to be in accordance with the approved plan. ***Submit materials invoice or delivery tickets to approval agency as part of PCVD for the following items:***

Project Name/BMP Name:_____

Construction Reviewer:_____

i._____ Soil amendments, *if applicable*

ii._____ Check dam material*, if applicable*

iii._____ Other; list:_____

II. Excavation and Grading

A._____Grassed Channel excavated to dimensions and at location as per the approved plan.

B._____Grassed Channel excavated to design bottom elevation as per the approved plan.

C._____Grassed Channel excavated from the sides to not compact the existing soil.

D._____Groundwater not encountered during excavation. (Note: If groundwater is encountered during the excavation process, construction of the facility must cease, and the designer notified that a plan modification is necessary)

E._____Bottom width constructed minimum 2' wide

F._____Sides slope excavated no steeper than 3:1.

III. Structural Components

A._____Pretreatment and energy dissipation provided at grassed channel inlets as specified on the approved plan.

B._____Construction of check dams, *if applicable.*

C._____Scour protection provided at all check dams and riprap stone size and dimension confirmed*, if applicable.*

D._____Outlet protection provided at all points of discharge and riprap stone size and dimension confirmed.

E._____Photo documentation of construction of structural components taken. ***Submit photo documentation to approval agency as part of PCVD.*** (Photo #: _____)

IV. Vegetative Stabilization

A._____Areas to be vegetated have completed the following items. ***Submit soil test report, lime, fertilizer, planting tags and seed tickets to approval agency as part of PCVD.***

i._____ Soil testing.

ii._____ Side slopes scarified to a minimum depth of 3 inches prior to placing topsoil.

iii._____ Application of topsoil to a minimum depth of 4 inches.

iv._____ Application of soil amendments including lime and fertilizer in accordance with the recommendations of the soil test or the approved plan.

v._____ Application of seed to the soil surface using approved methods.

vi._____ Planting installed in accordance with the approved plan.

B._____Application of soil stabilization matting used on side slopes in accordance with approved plan.

C._____Turf cover established on side slopes if called for on the approved plan.

D._____Grassed channel achieved 90% germination and as per the approved plan.

E._____Areas to be vegetated inside of the grassed channel surface have been completed in accordance with the approved plans. ***Submit planting tags to approval agency as part of PCVD.***

F._____Photo documentation of landscaping components taken. ***Submit photo documentation to approval agency as part of PCVD.*** (Photo #: _____)

V. Erosion and Sediment Control

A._____Sediment prevented from entering grassed channel by keeping it off-line or using perimeter controls as specified on the approved plan.

B._____Drainage area and side slopes stabilized in accordance with the approved plan.

C._____Sediment controls removed once drainage area meets final stabilization standard.

VI. Maintenance Access

A._____Maintenance access to the perimeter of the grassed channel has minimum width of 15 feet.

B._____Profile grade of maintenance access does not exceed 10H:1V.

C._____Minimum 10H:1V cross slope on maintenance access.

VII. Post Construction Verification

Owner shall submit post construction verification documents to demonstrate that the grassed channel has been constructed within allowable tolerances in accordance with the Approved Sediment and Stormwater Management Plan and accepted by the approving agency.

A._____Spot elevations of top of bank, bottom of bank, and centerline of the vegetated channel every 25 feet throughout the length of the channel.

B._____Additional spot elevations that demonstrate positive downstream drainage beyond the end of the vegetated channel.

Project Name/BMP Name:_____

Construction Reviewer:_____

C._____Cross section of the vegetated channel at the midpoint.

D._____Photo documentation of the vegetated channel depicting the channel bottom width and verification of achievement of the required 90% vegetated cover taken. ***Submit photo documentation to approval agency as part of PCVD.*** (Photo #: _____)

E._____Constructed slope, bottom width, depth, and length of the grassed channel are confirmed equal to or greater than 90% of the design once ESC controls are removed.

VIII. BMP Acceptance

A._____Final BMP construction review complete.

B._____All BMP punch list items addressed.

C._____Grassed channel is online (stabilized drainage area is entering grassed channel).

D._____As-built survey.

E._____PCVD submitted to approval agency for review and approval. Submit the following pieces of PCVD documentation to the approval agency:

- ☐ Materials invoice or delivery tickets
- ☐ Confirmatory infiltration testing report
- ☐ Photo documentation
- ☐ Soil test report
- ☐ Lime, fertilizer, and seed tickets
- ☐ As-built survey, including post construction verification checklist items
- ☐ Final, completed BMP Construction Checklist