

Sheet Flow to Grassed Open Space 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 open space field meeting with responsible person and person completing construction checklist.

B. _____ Extents of grassed open space (to include gravel diaphragm/engineered level spreader area) delineated and access by equipment with tracked vehicles for the temporary disturbances associated with incidental utility construction, restoration operations, or management of nuisance vegetation only, to prevent compaction of existing soils.

C. _____ Equipment on the site large enough to construct components of grassed open space from the sides of the facility.

D. _____ 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:***

i. _____ Clean, washed gravel for gravel diaphragm

ii. _____ Clean, washed gravel for level spreader

iii. _____ Geotextile fabric (Flow rate > 110 gal/min/sf)

iv. _____ Soil amendments

v. _____ Engineered level spreader

vi. _____ Other; list: _____

Grassed Open Space Construction Checklist

Project Name/BMP Name: _____

Construction Reviewer: _____

II. Excavation and Grading

- A. _____ Gravel diaphragm/level spreader excavated to dimensions and at location as per the approved plan.
- B. _____ Gravel diaphragm/level spreader excavated to design bottom elevation.
- C. _____ Gravel diaphragm/level spreader excavated from the sides to not compact the existing soil.
- D. _____ Confirm no clearing or grading in the grassed open space except for temporary disturbances associated with incidental utility construction, restoration operations, or management of nuisance vegetation.
- E. _____ Confirm topsoil has not been stripped.

III. Structural Components

- A. _____ Filter fabric placed between the gravel and underlying soil for gravel diaphragm.
- B. _____ Gravel placed with the depth in accordance with the approved plan.
- C. _____ Impervious sheet flow to gravel diaphragm has a drop of at least 3”.
- D. _____ Engineered level spreader lip installed with an anchored footer in accordance with the approved plan.
- E. _____ Engineered level spreader constructed so the ends tie back into the slope.
- F. _____ Photo documentation of construction of structural components taken. **Submit photo documentation to approval agency as part of PCVD.** (Photo #: _____)

IV. Vegetative Stabilization

- A. _____ Vegetated areas have completed the following items. **Submit soil test report, lime, fertilizer, compost, planting and seed tickets to approval agency as part of PCVD.**
 - i. _____ Soil testing.
 - ii. _____ Application of topsoil to a minimum depth of 4 inches.
 - iii. _____ Application of soil amendments including compost, lime and fertilizer in accordance with the recommendations of the soil test or the approved plan.
 - iv. _____ Application of seed to the soil surface using approved methods.
 - v. _____ Areas to be planted completed in accordance with the approved plans
 - vi. _____ Mulch applied in accordance with the approved plan.
- B. _____ Grassed open space achieved 90% germination and as per the approved plan.

Grassed Open Space Construction Checklist

Project Name/BMP Name: _____

Construction Reviewer: _____

C. _____ 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 open space by keeping using perimeter controls as specified on the approved plan.

B. _____ Sediment controls removed once drainage area meets final stabilization standard and before the construction of the gravel diaphragm or level spreader.

VI. Maintenance Access

A. _____ Maintenance access in accordance with the approved plans.

VII. Post Construction Verification

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

A. _____ Constructed grassed open space slope confirmed no greater than 2% steeper than the design slope once ESC controls are removed.

B. _____ Constructed grassed open space length confirmed equal to or greater than 90% of the design length once ESC controls are removed.

C. _____ Constructed grassed open space width confirmed equal to or greater than 90% of the design width once ESC controls are removed.

D. _____ Constructed elevation of all structures confirmed to be within 0.15 foot of the design elevation for:

i. _____ Gravel diaphragm

ii. _____ Engineered level spreader

iii. _____ Other; list: _____

Grassed Open Space Construction Checklist

Project Name/BMP Name: _____

Construction Reviewer: _____

VIII. BMP Acceptance

- A. _____ Final BMP construction review complete.
- B. _____ All BMP punch list items addressed.
- C. _____ Grassed open space is online (stabilized drainage area is entering grassed open space)
- 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
 - Photo documentation
 - Soil test report
 - Compost lime, fertilizer, and seed tickets
 - As-built survey
 - Final, completed BMP Construction Checklist