

Delaware Department of Transportation

Permeable Pavement System 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/Contract No. & Name: _____

DelDOT Project Manager: _____ NOI number: _____

BMP No. : _____ Location: _____

Contractor: _____

Construction Reviewer: _____

Supervising P.E.: _____

Permeable Pavement Variant

3-A Porous Asphalt

3-C Permeable Interlocking Concrete Pavers
or Concrete Grid Pavers

3-B Pervious Concrete

3-D Plastic Grid Pavers

<u>Construction Dates & Time:</u>					
DATE	TIME IN	TIME OUT	DATE	TIME IN	TIME OUT

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. _____ Permeable Pavement field meeting with responsible person and person completing construction checklist.

B. _____ Extents of permeable pavement 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 permeable pavement from the sides of the facility.

D. _____ Pervious areas draining to the permeable pavement stabilized in accordance with

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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. _____ Overdrain
- iii. _____ Inspection port(s)/Cleanout(s)
- iv. _____ Underdrain pipe
- v. _____ 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:**

- i. _____ Clean, washed reservoir layer stone
- ii. _____ Clean, washed bedding layer stone
- iii. _____ Permeable Pavement surface material
- iv. _____ Joint fill stone, *if applicable*
- v. _____ Clean, washed filter layer stone, *if applicable*
- vi. _____ Geotextile fabric, *if applicable*

II. Excavation and Grading

A. _____ Permeable Pavement excavated to dimensions and at location as per the approved plan.

B. _____ Permeable Pavement excavated to design bottom elevation as per the approved plan.

C. _____ Permeable Pavement 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 of permeable pavement excavation scarified prior to placement of stone.

F. _____ Confirmatory testing performed in native soil at design bottom elevation in accordance with Soil Investigation Procedures for Stormwater BMPs. **Submit confirmatory infiltration testing report to approval agency as part of PCVD.**

Confirmatory infiltration testing

Confirmatory rate is at least 150% of the approved design rate

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Confirmatory rate is less than 150% of approved design rate; designer notified to provide plan revision

Hand augers to a minimum depth of 3 feet below the bottom of the facility

Limiting layer not present

Limiting layer present; designer notified to provide plan revision

III. Structural Components

- A. _____ Discharge pipe installed from overdrain to discharge point.
- B. _____ Overdrain installed at elevations as specified on the approved plan.
- C. _____ Inspection port(s) installed.
- D. _____ Joint fill stone placed in accordance with the approved plans, *if applicable*.
- E. _____ Reservoir layer placed with a minimum depth of 6 inches of stone and in accordance with the approved plan.
- F. _____ Bedding layer placed with the depth of stone in accordance with the approved plan.
- G. _____ Filter layer placed with the depth of stone in accordance with the approved plan, *if applicable*.
- H. _____ Permeable pavement surface material placed in accordance with the approved plan.
- I. _____ Underdrain piping laid flat or with positive slope toward outlet.
- J. _____ Photo documentation of construction of structural components taken. **Submit photo documentation to approval agency as part of PCVD.** (Photo #: _____)

IV. Erosion and Sediment Control

- A. _____ Sediment prevented from entering permeable pavement by keeping it off-line or using perimeter controls as specified on the approved plan.
- B. _____ Drainage area stabilized in accordance with the approved plan.
- C. _____ Sediment controls removed once drainage area meets final stabilization standard.

V. Maintenance Access

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

VI. Post Construction Verification

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

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- A. _____ Constructed permeable pavement surface confirmed to be no less than the design.
- B. _____ Constructed contributing drainage area confirmed to be no greater than the design contributing drainage area.
- C. _____ Constructed volume of the permeable pavement storage confirmed equal to or greater than 90% of the of the design.
- D. _____ Constructed elevation of all structures confirmed to be within 0.15 foot of the design elevation for:
 - i. _____ Discharge pipe
 - ii. _____ Overdrain
 - iii. _____ Inspection port(s)/cleanout(s)
 - iv. _____ Underdrain pipe
 - v. _____ Other; list: _____

VII. BMP Acceptance

- A. _____ Final BMP construction review complete.
- B. _____ All BMP punch list items addressed.
- C. _____ Permeable Pavement is online (stabilized drainage area is entering permeable pavement).
- 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
 - Final, completed BMP Construction Checklist