

Construction Inspection Checklist: Permeable Pavement



Address/Location, Building/Permit #, LDA/Permit #, SWM#, Contractor, Certifying Professional, Date Started, Final Inspection Date

*Certifying professional must be a licensed Professional Engineer (PE), Landscape Architect (L.A.), or Land Surveyor (L.S.).

The following checklist provides a basic outline of the anticipated items for the construction inspection of permeable pavement. This checklist does not necessarily differentiate between the types of pavement materials and the different construction requirements.

All items should be crossed off when completed. Items labeled "Certification of..." must be crossed off, dated and initialed by the certifying inspector.

Table with 2 columns: Description, DATE. Includes PRE-CONSTRUCTION MEETING, SEDIMENT MANAGEMENT, EXCAVATION.

Permeable Pavement | January 2017

Table with 2 columns: Description, DATE. Includes subgrade surface, excavation size, and certification of excavation inspection.

Table with 2 columns: Description, DATE. Includes filter layer, underdrain, stone reservoir, and bedding layer placement.

Permeable Pavement | January 2017

Table with 2 columns: Description, DATE. Includes permeable pavers or pervious concrete installation, certification of pavement installation, and comments.

All items checked above have been inspected by me (or by an individual under my responsible charge) and have been completed to my satisfaction and meet the approved plans (or deviations are noted here).

Signature: _____ Date: _____

Certifying Professional's License Number (or Seal): _____

Installer / Contractor's Certification (Required)

- Permeable Interlocking Pavers: Attach copy of ICPI Certification
Previous Concrete: NRMCA Certification* Number: _____

*NRMCA Certification must be either installer or Craftsman certification.

Permeable Pavement | January 2017

Construction Inspection Checklist: Urban Bioretention - Planter Box



Address/Location, Building/Permit #, LDA/Permit #, SWM#, Contractor, Certifying Professional, Date Started, Final Inspection Date

*Certifying professional must be a licensed Professional Engineer (PE), Landscape Architect (L.A.), or Land Surveyor (L.S.).

The following checklist provides a basic outline of the anticipated items for the construction inspection of urban bioretention facilities. This checklist does not necessarily distinguish between all the design variations.

Table with 2 columns: Description, DATE. Includes PRE-CONSTRUCTION MEETING, EXCAVATION AND BOX CONSTRUCTION, FILTER LAYER, UNDERDRAIN, AND STONE RESERVOIR PLACEMENT.

Urban Bioretention - Planter Box | January 2019

Table with 2 columns: Description, DATE. Includes placement of remaining lift of stone reservoir layer and certification of filter layer and underdrain placement.

Table with 2 columns: Description, DATE. Includes soil media and certification of soil media placement.

Table with 2 columns: Description, DATE. Includes pretreatment and plant installation.

Table with 2 columns: Description, DATE. Includes dry well or connection to storm sewer.

Urban Bioretention - Planter Box | January 2019

Table with 2 columns: Description, DATE. Includes underdrain directly tied into the public storm sewer system and certification of dry well or connection to storm sewer.

Table with 2 columns: Description, DATE. Includes comments.

All items checked above have been inspected by me (or by an individual under my responsible charge) and have been completed to my satisfaction and meet the approved plans (or deviations are noted here).

Signature: _____ Date: _____

Certifying Professional's License Number (or Seal): _____

Construction Inspection Checklist: Dry Well



Address/Location, Building/Permit #, LDA/Permit #, SWM#, Contractor, Certifying Professional, Date Started, Final Inspection Date

This construction inspection checklist to be used only for dry wells that are not connected to another stormwater management facilities like a planter box.

All items should be checked and dated when completed by the contractor.

Table with 2 columns: Description, DATE. Includes PRE-CONSTRUCTION MEETING.

Table with 2 columns: Description, DATE. Includes EXCAVATION.

Table with 2 columns: Description, DATE. Includes FILTER LAYER AND UNDERDRAIN PLACEMENT.

Dry Well | September 2017

Table with 2 columns: Description, DATE. Includes STONE RESERVOIR AGGREGATE PLACEMENT.

Table with 2 columns: Description, DATE. Includes LOCATION.

Table with 2 columns: Description, DATE. Includes COMMENTS (CLARIFICATION, DEVIATIONS, ETC.).

Dry Well | September 2017

*NOTE: CONTRACTOR TO COMPLETE CHECKLISTS FOR CERTIFICATE OF OCCUPANCY

WALTER L. PHILLIPS, INC. DOES NOT PERFORM THE CONSTRUCTION INSPECTION CERTIFICATION.

ARLINGTON COUNTY, VIRGINIA STORMWATER FACILITY MAINTENANCE AND MONITORING AGREEMENT

THIS AGREEMENT ("Agreement"), made and entered into this ___ day of ___, 20___, by and between -NAME OF PROPERTY OWNER-, (hereinafter the "Landowner"), and The County Board of Arlington County, Virginia, a body corporate and politic (the "County");

WITNESSETH:

WHEREAS, the Landowner is the owner of certain real property located and situated in Arlington County, Virginia by virtue of a Deed recorded in Deed Book -BOOK-, Page -PAGE- or Instrument Number -INSTRUMENT NUMBER- (the "Property"), in the Land Records of Arlington County, Virginia (the "Land Records"); and

WHEREAS, the Property is identified in the records of the Arlington County Department of Real Estate Assessments by Real Property Code (RPC) number(s) -RPC NUMBERS-; and

WHEREAS, the Landowner or its representative has submitted to the County, for review and approval, building and development plans for the Property entitled -NAME OF GRADING PLAN-, addressed as -ADDRESS OF PROJECT-, identified by Building Permit number(s) -BUILDING PERMIT NUMBER-, Land Disturbance Permit (LDA) number -LAND DISTURBANCE PERMIT NUMBER-; and identified by Stormwater Management (SWM) number -SWM NUMBER- (the "Plans"), which, in their final approved form as determined by the County's records, are expressly made a part hereof and are incorporated by reference herein; and

WHEREAS, the Plans depict the proposed construction of certain required facilities that provide for the control of stormwater quality and/or quantity within the confines of the Property; and

WHEREAS, Chapter 60 (Stormwater Management Ordinance) and Chapter 61 (Chesapeake Bay Preservation Ordinance) of the Arlington County Code (collectively the "Code") require that on-site stormwater management facilities, as shown on the Plans, be constructed and adequately maintained by the Landowner, its successors and assigns; and

WHEREAS, the Landowner desires to comply with the Code, construct the aforesaid stormwater management facilities ("Facilities") as shown on the Plans, and enter into the following agreement all as hereinafter set forth.

AGREEMENT

NOW, THEREFORE, in consideration of the foregoing premises and the mutual covenants contained herein, the Landowner and the County enter into this agreement subject to the following terms and conditions:

1. The Facilities on the Property shall be constructed by the Landowner, its successors and assigns, in accordance with the approved Plans.

2. The Landowner, its successors and assigns, shall perform the maintenance schedule for the Facilities as outlined and specified on the approved Plans and shall maintain the Facilities in good working order to ensure the approved design functions.

3. The Landowner, successors and assigns, shall be responsible for the inspection and maintenance of the Facilities, according to the inspection qualifications, frequency, and reporting requirements noted or required by the Plans, the Code or other regulatory requirements. The purpose of the inspection shall be to ensure the safe and proper function of the Facilities. The inspection shall include but not be limited to the inspection of berms, vegetation, filtration media, inlet and outlet structures, pond areas, access, and any other related appurtenances. An annual inspection report must be submitted to the County. Deficiencies shall be noted in the inspection report. If deficiencies are noted, they shall be promptly corrected by the Landowner, or its successors and assigns, and a certification reflecting such corrections shall be submitted to the County indicating the safe and proper function of the Facilities.

4. Should the Landowner, its successors and assigns, fail to complete the inspection required by paragraph 3 above, the Landowner, its successors and assigns hereby grant permission to the County, its authorized agents and employees, to enter upon the Property and to inspect the Facilities whenever the County deems necessary, and such inspection shall be performed at the Landowner, its successors and assigns expense. Whenever reasonably possible, the County shall attempt to notify the Landowner, its successors and assigns, prior to entering the Property. The purpose of inspection shall be to verify the safe and proper function of the Facilities, investigate reported deficiencies, and/or to respond to citizen complaints. The County shall provide to the Landowner, or its successors and assigns, copies of the inspection results and of any directive from the County outlining any necessary repairs or maintenance required to the Facilities, including a date by which such necessary repairs or maintenance shall be completed.

5. In the event the Landowner, its successors and assigns, fails to complete the necessary inspections, or provide the inspection reports, or complete any repairs or maintenance within thirty (30) days following the date required or in cases involving flooding, on or before the date required, the County shall have the right to enter the Property and take any and all steps necessary to inspect, and/or to bring the operation and function of the Facilities into compliance with all applicable codes and design standards, and to charge the cost of any inspection, or repairs or maintenance and related administrative functions to the Landowner, its successors and assigns. This provision shall not be construed to allow the County to erect any structure of a permanent nature on the Property that is not associated with the proper function and operation of the Facilities. It is expressly understood and agreed that the County shall be under no obligation to maintain or repair the said Facilities, and in no event shall this Agreement be construed to impose any such obligation on the County.

6. In the event the County, pursuant to this Agreement, performs work of any nature, or expends any funds in the performance of said work for labor, use of equipment, supplies, materials and the like on account of the Landowner's or its successors' and assigns' failure to perform such work, the Landowner, its successors and assigns, shall reimburse the County, upon demand, within 30 days of receipt thereof for all costs incurred by the County hereunder. If not paid within such 30-day period, the County shall post a lien against the Property in the amount of such costs, plus interest at the Judgment Rate, and may enforce it in the same manner as a lien for Real Property taxes may be enforced. The County may also proceed to collect amounts due in any manner not prohibited by law.

7. The Landowner, its successors and assigns, shall indemnify and hold harmless the County, its agents and employees for any and all damages, accidents, casualties, occurrences or claims which might arise or be asserted against the County resulting from any repairs, construction, or corrective actions required to be performed by the County to bring the Facilities into compliance with all applicable codes and design standards due to Landowner's, its successors' and assigns', failure to comply with this Agreement.

8. The Landowner, its successors and assigns, shall indemnify and hold harmless the County, its agents and employees for any and all damages, accidents, casualties, occurrences or claims which might arise or be asserted against the County resulting from any construction or maintenance of the Facilities by the Landowner, its successors and assigns.

9. In the event a claim based upon the indemnities of paragraphs 7 or 8 is asserted against the County, its agents or employees, the County shall promptly notify the Landowners, their successors and assigns, who shall defend, at their own expense, any suit based on such claim. If, as a result of a claim, any judgment against the County, its agents or employees is allowed, the Landowner, its successors and assigns shall incur all costs and expenses associated therewith.

10. The Landowner, its successors and assigns, hereby grant permission upon the County, its authorized agents and employees to enter and access the Property, upon prior written notification from the County, to install, operate, and maintain at the County's sole expense equipment desired to monitor the stormwater flow characteristics, including pollutant content of the influent and effluent, at intermediate points on the Property, and within the Facility. No entry or access to the Property by the County pursuant to this paragraph will unreasonably interfere with the Landowner's, its successors' and assigns' use or operation of the Property.

11. The Landowner, its successors and assigns, hereby grant permission upon the County, its authorized agents, employees, and official guests to enter and access the Property, upon written request by the County, but at the convenience of Landowner, its successors and assigns, in order to conduct educational tours of the Facilities. The County agrees that it shall hold Landowner harmless for any and all damages, accidents, casualties, occurrences or claim which might arise or be asserted against the Landowner occurring as a result of such tours to the extent that such claims arise from the negligence of the County. The purpose of such tours shall be to expand the base of knowledge in the stormwater management field among public and private sector planners, engineers, scientists and other interested parties.

12. This Agreement shall be recorded among the Land Records, shall constitute a covenant running with the title of the Property or equitable servitude, and shall be binding on the Landowner, its administrators, executors, assigns, heirs and other successors in interest. Proof of recordation of this agreement shall be provided to the Arlington County Department of Environmental Services by the Landowner, its successors and assigns prior to the issuance by the County of the Building Permit for the Property.

WITNESS the following signatures and seals:

(Landowner)

-PRINTED NAME-
Print or Type Name

-TITLE-
Title

Certificate of Acknowledgment:

City/County of _____ Commonwealth of Virginia

The foregoing instrument was acknowledged before me this ___ day of ___, 20___

by _____ (Name of person seeking acknowledgment)

Notary Public's signature

Notary registration number: _____

My commission expires: _____



BMP CHECKLIST & SWM AGREEMENT
WALTER L. PHILLIPS INCORPORATED ESTABLISHED 1945
ARLINGTON, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES
4219/4221 LORCOM LANE GRADING PLAN
4219/4221 LORCOM LANE, ARLINGTON, VIRGINIA 22207
SCALE: NONE DRAWN CR CHECKED TP/BKW
SUBMITTED DATE 03/05/2019 05/07/2019 06/24/2019 07/17/2019
APPROVED DATE
DIRECTOR OF ENVIRONMENTAL SERVICES
SHEET: C-0705