ANNE ARUNDEL COUNTY
MARYLAND

STAFF ONLY

*Permit No.*_____
Revision No. _____
Date _____

BMP Group 4 Checklist
Stormwater Filtering Systems

Instructions: All stormwater management plan submissions that use a Stormwater Filtering Systems from BMP Group 4 (F-1; surface sand filter, F-2;underground sand filter, F-3; perimeter sand filter, F-4; organic sand filter, F-5; pocket sand filter, and F-6; bioretention) shall contain the following information for each facility that is a Stormwater Filtering System. Any submissions brought to the County with missing or incomplete plans, may be rejected and not reviewed until all necessary information has been provided. It should be noted that not all items contained below will, necessarily, be required for every project.

Consulting Engineer shall place one of the following marks (as appropriate) on each line (engineering reviewer shall verify each mark).
***N/A** - not applicable **Y** - provided*

Note: The following checklist is provided to assist the design professional in developing a complete stormwater management plan set to expedite review by the Department. All final stormwater management plans submitted for review are to include a copy of the checklists(s) signed by a registered design professional in responsible charge with the firm. Submittals made that do not include the checklist will be returned without review, comments, or approval. Compliance with the checklist, however, in no way is meant to relieve the design professional of responsibility for project design.

1. Performance Criteria for BMP #_____ *(see 2000 Maryland Stormwater Design Manual page 3.31)*

a) Stormwater Filtering Feasibility Criteria
1) use as private stormwater management practices, or on capital projects,
2) maximum contributing area to an individual system is 10 acres,
3) full sedimentation pretreatment technique for drainage areas with imperviousness less than 75%.

b) Stormwater Filtering Conveyance Criteria
1) a flow regulator to divert the Wqv to the filtering practice (designed off-line),
2) a non-erosive outlet point for the ten-year storm overflow,
3) equipped with a minimum 4" perforated pipe underdrain in a gravel layer.

c) Stormwater Filtering Pretreatment Criteria
1) a minimum of 25% of the computed Wqv pretreated prior to filter media.

d) Stormwater Filtering Treatment Criteria
1) design the entire system (including pretreatment) to temporary hold a minimum of 75% of the Wqv prior to filtration,
2) sand filters have a minimum filter bed depth of 12",
3) filter media conforms to the specifications listed in Table B.3.1 (Appendix B.3) of the State Manual,
4) bioretention systems consist of the treatment components shown on Figure 3.17 of the State Manual.

e) Stormwater Filtering Landscaping Criteria
1) establishment of dense and vigorous vegetative cover over the contributing drainage area before allowing runoff into the facility,
2) landscape plan for bioretention areas per the State Landscape Guidance (Appendix A of the State Manual).

f) Stormwater Filtering Maintenance Criteria
1) clean/repair sediment chambers when drawdown times in the chambers exceed 36 hours,
2) remove and dispose in an acceptable manner the top few inches of discolored filtering material, when filtering capacity diminishes (when water ponds on filter surface for more than 72 hours),
3) a minimum of 6" drop at the inlet of bioretention facilities,
4) provide direct access to the pretreatment area and the filter bed,
5) construction conformance to the specifications outlined in Appendix B.3 of the State Manual.

g) Additional Criteria required by Anne Arundel County Practices and Procedures Manual
1) BMP Group 4 shall only be used as private stormwater management practices, or on capital projects.
2) The maximum contributing area to an individual stormwater filtering system shall be less than 10 acres.