



GENERAL MAINTENANCE CARD

Stormwater Coalition of Albany County

Facility: Filters - Bioretention (F-5)

Funding for This Project Provided by the
New York State Department of Environmental Conservation
Environmental Protection Fund

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MAJOR AREAS OF PRACTICE

- | | |
|--------------------------|---------------------------------|
| A. Maintenance Accessway | D. Bioretention Area |
| B. Stone Diaphragm | E. Underdrain Collection System |
| C. Grass Filter Strip | F. Outlet Structure |

PURPOSE AND FUNCTION

A shallow depression that treats stormwater as it flows through a soil matrix, and is returned to the storm drain system.

SHORT-TERM MEASURES (FREQUENCY: AT LEAST ONCE A MONTH)

1. Maintain contributing drainage area.

- Remove trash and debris and dispose off-site, as required.
- Stabilize and mow area as required. Remove clippings.
- Ensure that activities in the drainage area minimize oil/grease and sediment entry to the system.

2. Inspect stone diaphragm (Location B), grass filter strip (Location C), or other pretreatment devices.

- Remove debris manually and dispose off-site, as required.
- Note any channels, soil exposure, or other evidence of erosion.

3. Inspect bioretention area (Location D).

- Remove debris manually and dispose off-site, as required.
- Note dewatering time. Bioretention area should drain completely within 24-48 hours of a storm event.

4. Inspect outlet structure (Location F) and note any cracks/damage.

- Remove debris manually and dispose off-site, as required.

Landscaping:

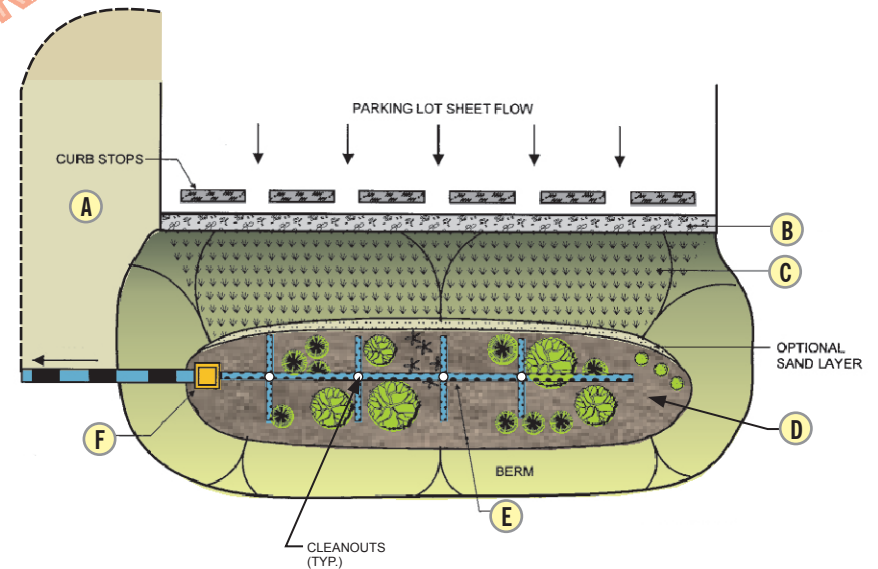
5. Inspect overall condition of vegetation onsite.

- Irrigate plantings two to three times a week or as needed, until well-established (two to three months post-construction).

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SIDE A

FIGURE 1



- Remove vegetative invasives manually, ensuring root removal, to the extent possible. Note any significant establishment for future removal/maintenance.
- Relocate rodents and/or provide exclusion devices, as required.
- Trim shrubs and cut grass along street frontages, as required.
- Mow grassed areas as required. Mow only when area is dry to avoid rutting. Dispose of clippings off-site.

Perimeter Treatment:

6. Inspect overall condition of the perimeter treatment items.

- Remove accumulated litter/debris by hand, dispose off-site.
- Secure gates, guiderails, signs, and boulders as required.

7. Inspect for significant establishment of invasives and develop an area-wide plan for removal.

8. Inspect for herbivore damage.

- Repair burrows/damage created by rodents, as required.
- Introduce alternative plantings, as required.

H&S File: 6303-064-FC-Bioretention F-5.cdr

Albany County	City of Albany	Town of Bethlehem	City of Cohoes	Town of Colonie	Village of Colonie	Village of Green Island	Town of Guilderland	Village of Menands	Town of New Scotland	Village of Voorheesville	City of Watervliet	SUNY Albany
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■ MEDIUM-TERM MEASURES (FREQUENCY: ONCE EVERY YEAR)

Drainage Issues:

1. **Inspect stone diaphragm (Location B), grass filter strip (Location C) or other pretreatment devices.**
 - Repair/reinforce eroded areas as required.
 - Remove accumulated sediment from stone diaphragm, as required.
2. **Inspect bioretention area (Location D).**
 - Repair/reinforce eroded areas as required.
3. **Inspect outlet structure (Location F on Fig. 1).**
 - Repair cracks/damage as required.
 - Clear as necessary to maintain conveyance.

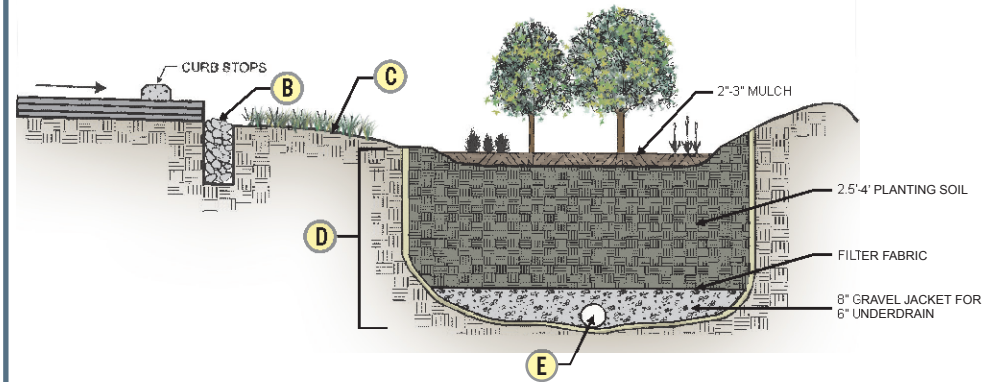
Landscaping:

4. **Inspect plant mortality.**
 - Remove dead plants by hand; dispose off-site; replant as required.
 - Note any bare areas. Cultivate soil and seed or mulch as required. Introduce alternative plantings, as required.
 - Ensure that mulch is at appropriate depth (per specifications) and replenish as required.
5. **Test soil and adjust as necessary to maintain a 5.0 to 7.2 pH range. Apply limestone for soils with pH below 5.0, and iron sulfate plus sulfur for soils with pH above 7.2.**

Perimeter Treatment:

6. Lubricate locks and hinges on gates, as required.
7. Refurbish accessway with wood chips or other appropriate material, as required.
8. Inspect and repair damaged locks, gates, guiderails, and signs, as required.

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■ LONG-TERM MEASURES (FREQUENCY: ONCE EVERY TWO TO THREE YEARS)

1. **Replace stone diaphragm (Location B) as required.**
2. **Inspect surface of bioretention area (Location D) for sediment accumulation.**
 - Remove sediment manually, as required.
 - Core aerate or cultivate non-vegetated areas to ensure adequate filtration, as required.
3. **Cleanout underdrain (Location E) as required.**
 - Attach a standard compressor and fitting to first cleanout and run compressed air through pipe. Repeat for all remaining connections.
 - Remove compressor hose and fitting.
4. **Replace mulch over surface of entire bioretention area (Location D).**

Maintenance Considerations During Design

- Erosion and Sediment Control
 - Inlet/Outlet Protection
 - Sediment Removal
- Landscaping
- Maintenance Access
- Cold Climate Considerations