



GENERAL MAINTENANCE CARD

Stormwater Coalition of Albany County

Facility: Infiltration - Infiltration Trench (I-1)

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MAJOR AREAS OF PRACTICE

- | | | |
|--------------------------|-----------------------------|---------------------|
| A. Maintenance Accessway | D. Concrete Level Spreader | G. Observation Well |
| B. Inlet Structure | E. Grass Channel | H. Outlet |
| C. Plunge Pool | F. Infiltration Trench Area | |

PURPOSE AND FUNCTION

An infiltration practice that stores the water quality volume in the void spaces of a gravel trench before it is infiltrated into the ground.

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

Drainage Issues:

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 inlet (Location B), and outlet (Location H).

- Remove debris manually and dispose off-site.
- Note any cracks in pipe and concrete pipe collar.

3. Inspect pretreatment devices, such as plunge pool (Location C), concrete level spreader (Location D), and grass channel (Location E).

- Remove debris manually and dispose off-site.
- Note any displaced field stone or cracks in concrete.

4. Inspect infiltration trench area (Location F).

- Remove debris manually and dispose off-site.
- Note any surface ponding that remains more than 24-48 hours following a storm event.
- Record water level at observation well (Location G). Note any water that remains more than 24-48 hours following a storm event.

5. Inspect adjacent catch basin grates and manhole covers.

- Remove debris manually and dispose off-site.

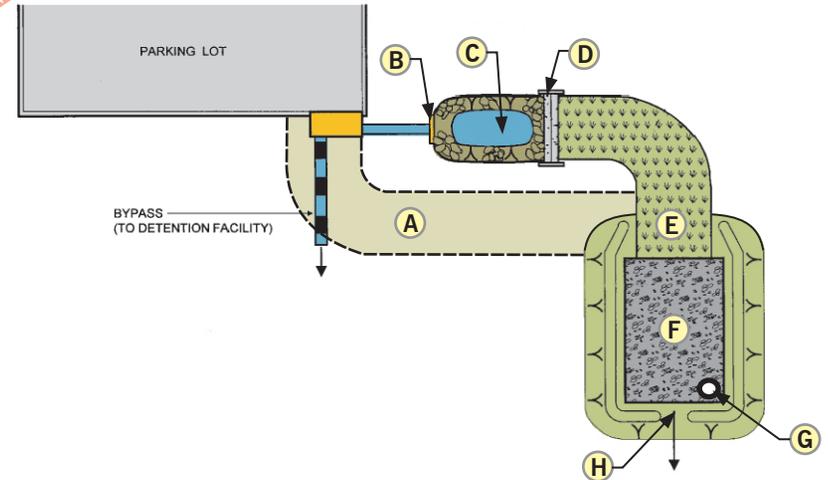
Landscaping:

6. Inspect overall condition of vegetation onsite.

- 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.

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SIDE A



- Trim shrubs and cut grass along street frontages, as required.
- Remove grass clippings and leaves from surface of infiltration trench (Location F).
- Mow grassed areas as required. Mow only when surface is dry to avoid rutting. Dispose of clippings off-site.

Perimeter Treatment:

7. 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.

MEDIUM-TERM MEASURES (FREQUENCY: ONCE EVERY SIX MONTHS)

Drainage Issues:

1. Inspect inlet (Location B) and outlet (Location H) to ensure good condition and no evidence of clogging or erosion.

- Repair cracks in pipe and concrete pipe collar, as required.
- Clear structures to maintain conveyance, as required.
- Repair undercut and eroded areas at inflow and outflow points.

2. Inspect pretreatment devices, such as plunge pool (Location C), concrete level spreader (Location D), and grass channel (Location E).

- Measure sediment depth in plunge pool (Location C).
- Note any unstable embankments or evidence of erosion. Repair/reinforce as required.
- Replace displaced field stone and repair cracks in concrete, as required.

3. Inspect infiltration trench area (Location F).

- If water is ponded at the surface more than 24-48 hours following a storm event:
 - Remove pea gravel filter layer and top surface filter fabric. Dispose off-site.
 - Replace according to original specifications.
 - Seed or sod to restore ground cover.

Landscaping:**4. Inspect for plant mortality.**

- Remove dead plants by hand; dispose off-site; replant as required.
- Remove trees that start to grow in the vicinity of the trench (Location F), and dispose off-site, as required.
- Note any bare areas. Cultivate soil and revegetate as required. Introduce alternative plantings, as required.

5. Inspect for herbivore damage.

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

Perimeter Treatment:

- Lubricate locks and hinges on gates, as required.
- Refurbish wood chips on accessway and site perimeter, as required.
- Inspect and repair damaged sidewalks, fencing, guiderail, and signs, as required.

LONG-TERM MEASURES (FREQUENCY: ONCE EVERY YEAR)

- Remove sediment from plunge pool and adjacent catch basins; vactoring recommended.

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

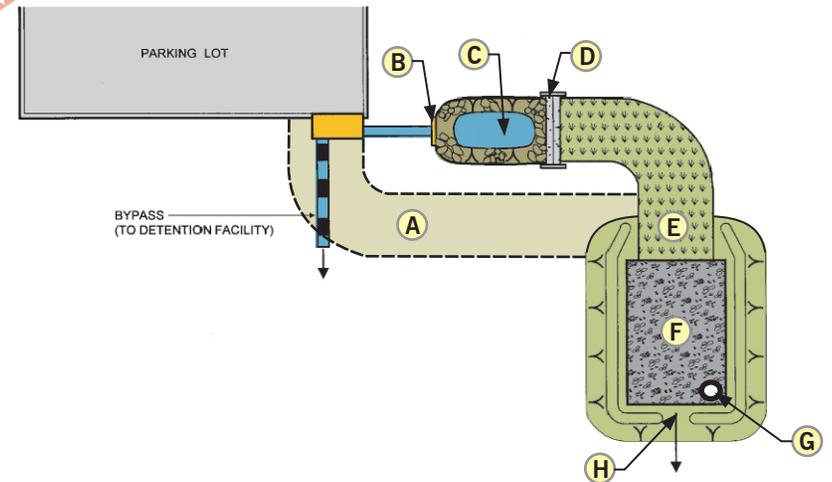
- If water remains in the observation well more than 24-48 hours following a storm event:
 - Remove all of the stone aggregate, filter fabric, and sand filter layers. Dispose off-site.
 - Till, disc, or otherwise aerate the bottom of the trench to enhance infiltration.
 - Replace according to original specifications.
 - Seed or sod to restore ground cover.

DEWATERING PROCEDURE AT PRETREATMENT DEVICE

The plunge pool or other pretreatment device must be dewatered before proceeding with vactoring operations.

Methodology:

- Park the vactor truck along the maintenance accessway near the inlet (Location A). The boom should be extended in the direction of the plunge pool.
- Ensure clear access for a two-person crew down the slope near the plunge pool (Location C).
- Pump out the water from the plunge pool to the grass channel (Location E) downstream.
- Proceed with vactoring operations.

DRAFT**VACTORING PROCEDURE AT PRETREATMENT DEVICE****Methodology:**

- Connect the vactor truck to an approved nearby source of clean water for vactoring purposes.
- Unwind the water jet hose reel and place it down the slope of the plunge pool (Location C). Use hose to loosen accumulated sediment.
- Place the flexible suction hose into the plunge pool (Location C).
- Perform vactoring operations by simultaneously using the suction arm and water jet hose to remove slurry until the rip-rap base is reached.
- Continue slurry removal until capacity of vactor truck is reached.
- Stop vactoring work. Dispose of slurry off-site.
- Repeat Steps 1-6 until all the sediment has been removed.
- After vactoring work is complete, carefully remove the flexible suction hose and the water jet hose from plunge pool, and transport them back to the truck.
- Inspect the accessway and adjacent area for damage, such as dislodged field stone, wood chips, etc., and refurbish as required.

Note: Secure locks on gates as necessary prior to exiting site.

Maintenance Considerations During Design

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