

## 5.4.2 Nonstructural Practices

### N-1. ROOFTOP DISCONNECTION

#### REQUIRED

→ **Items/stages that must be confirmed/document:**

- 1. All contributing areas are stabilized or device is protected
- 2. Final grading and permanent stabilization
- a. Pervious area is between 15-FT and 75-FT long
- b. Average slope is 5% or less
- c. Disconnected downspouts are at least 10-FT from the nearest impervious surface
- d. Vegetation is well established

→ **Inspection and Verification Provided By:**

- As-Built drawing (*Must be provided prior to Final Inspection*)  
\* *Locate the ESD on a drawing in relation to the house/structure*
- OPTION-1: Certified by a Licensed Professional  
OR
- OPTION-2: Each item/stage documented with digital photo by builder  
(*Must be clear and indisputable photo evidence of compliance*)  
OR
- OPTION-3: Each item/stage inspected by County
- Final Inspection and Approval by COUNTY prior to U&O issuance

## 5.4.2 Nonstructural Practices

### N-2. NON-ROOFTOP DISCONNECTION

#### REQUIRED

→ **Items/stages that must be confirmed/document:**

- 1. All contributing areas are stabilized or device is protected
- 2. Final grading and permanent stabilization
- a. There is a 1-Ft to 2-FT wide gravel transition strip separating impervious and pervious
- a. Pervious area is between 10-FT and 75-FT long
- b. Average slope is 5% or less
- c. Disconnected is at least 10-FT from the nearest impervious surface
- d. Vegetation is well established

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## 5.4.2 Nonstructural Practices

### N-3. SHEETFLOW TO CONSERVATION AREAS

#### REQUIRED

--- Deed of Easement and Maintenance Agreement for the Conservation Area

→ **Items/stages that must be confirmed/document:**

- 1. All contributing areas are stabilized or protected
- 2. The conservation area is staked and signed for avoidance
- 3. Final grading and permanent stabilization
- a. Conservation area is at least 50-FT wide and 20,000-SF in area
- b. Pervious area is between 10-FT and 75-FT long
- c. Average slope is 5% or less
- d. Disconnected is at least 10-FT from the nearest impervious surface
- e. Vegetation is well established

→ **Inspection and Verification Provided By:**

--- As-Built drawing (*Must be provided prior to Final Inspection*)  
\* *Locate the ESD on a drawing in relation to the house/structure*

--- OPTION-1: Certified by a Licensed Professional  
OR

--- OPTION-2: Each item/stage documented with digital photo by builder  
(*Must be clear and indisputable photo evidence of compliance*)

OR

--- OPTION-3: Each item/stage inspected by County

--- Final Inspection and Approval by COUNTY prior to U&O issuance

## 5.4.3 Micro-Scale Practices

### M-1. A. RAINWATER HARVESTING (CISTERNS)

#### REQUIRED

- Deed of Easement and Maintenance Agreement

→ **Inspection and Verification Provided By:**

- As-Built drawing (*Must be provided prior to Final Inspection*)
- Certified by a Licensed Professional

\* *Locate the ESD on a drawing in relation to the house/structure, i.e., pull distance from house corners to center of ESD*

- Final Inspection and Approval by COUNTY prior to U&O issuance

→ **Triennial Inspections required in perpetuity**

### M-1. B. RAINWATER HARVESTING (RAIN BARRELS)

#### REQUIRED

- Deed of Easement and Maintenance Agreement

→ **Items/stages that must be confirmed/documentated:**

- 1. Concrete, block or brick base pad
- 2. Mosquito screen on top of barrel
- 3. Overflow pipe (hose) near top to stable discharge
- 4. Outlet spigot near bottom of barrel

→ **Inspection and Verification Provided By:**

- As-Built drawing (*Must be provided prior to Final Inspection*)

\* *Locate the ESD on a drawing in relation to the house/structure*

- Final Inspection and Approval by COUNTY prior to U&O issuance

→ **Triennial Inspections required in perpetuity**

### M-2. SUBMERGED GRAVEL WETLAND

\* Not recommended for use on individual lots in residential subdivision

## 5.4.3 Micro-Scale Practices

### M-3. LANDSCAPE INFILTRATION

#### REQUIRED

--- Deed of Easement and Maintenance Agreement

→ **Items/stages that must be confirmed/document:**

- 1. All contributing areas are stabilized or device is protected
- 2. Excavation to subgrade (length, width, depth)
- 3. Placement of anchored observation well
  - a. Proper pipe material (size, thickness, solid, perforated)
- --- 4. Placement of:
  - a. Non-woven filter fabric on sides ONLY (Provide Manufacturer Specs)
  - b. Sand, soil and gravel media (per specifications)
- 5. Placement of appurtenant conveyance structures
- 6. Placement and choice of plants and mulch layer (per specifications)
- 7. Final grading and stabilization
  - a. Observation well 6"-12" above final grade with glued cleanout adaptor and removable plug

→ **Inspection and Verification Provided By:**

--- As-Built drawing (*Must be provided prior to Final Inspection*)  
\* Locate the ESD on a drawing in relation to the house/structure

--- OPTION-1: Certified by a Licensed Professional  
OR

--- OPTION-2: Each item/stage documented with digital photo by builder  
(*Must be clear and indisputable photo evidence of compliance*)

OR

--- OPTION-3: Each item/stage inspected by County

--- Final Inspection and Approval by COUNTY prior to U&O issuance

→ **Triennial Inspections required in perpetuity**

### 5.4.3 Micro-Scale Practices

#### M-4. INFILTRATION BERMS

##### REQUIRED

→ **Items/stages that must be confirmed/document:**

- 1. Proper placement of gravel media and soil
- 2. Upon proper completion of final grading and permanent stabilization
- a. Berms are installed on contour are level and at a consistent height
- b. In series, toe elevation of upstream berm shall equal top elevation of downstream berm
- c. The berm is asymmetric with the top being 2-FT wide
- d. The upgrade berm slope is concave
- e. Berm side slopes are shallow (3:1 or flatter) to allow for mowing

→ **Inspection and Verification Provided By:**

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OR
- OPTION-2: Each item/stage documented with digital photo by builder  
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## 5.4.3 Micro-Scale Practices

### M-5. DRY WELLS

#### REQUIRED

--- Deed of Easement and Maintenance Agreement

→ **Items/stages that must be confirmed/document:**

--- 1. All contributing areas are stabilized or device is protected

--- 2. Excavation to subgrade (length, width, depth)

--- 3. Placement of anchored observation well

--- a. Proper pipe material (size, thickness, solid, perforated)

--- 4. Placement of:

--- a. Non-woven filter fabric on sides ONLY (Provide Manufacturer Specs)

--- b. Sand and gravel media (per specifications)

--- 5. Placement of appurtenant conveyance structures

--- 6. Final grading and stabilization

--- a. Observation well 6"-12" above final grade with glued cleanout adaptor and removable plug

--- b. Located downhill from building structures

--- c. Min 10-FT from buildings

--- d. Min 50-FT from confined water supply wells (100-FT from non-confined)

--- e. Min 25-FT from septic systems

--- f. Min 100-FT from fill slopes of 15% and 200-FT from fill slopes of 25%

→ **Inspection and Verification Provided By:**

--- As-Built drawing (*Must be provided prior to Final Inspection*)  
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--- OPTION-1: Certified by a Licensed Professional  
OR

--- OPTION-2: Each item/stage documented with digital photo by builder  
(*Must be clear and indisputable photo evidence of compliance*)

OR

--- OPTION-3: Each item/stage inspected by County

--- Final Inspection and Approval by COUNTY prior to U&O issuance

→ **Triennial Inspections required in perpetuity**

## 5.4.3 Micro-Scale Practices

### M-6. MICRO-BIOPERMETION

#### REQUIRED

--- Deed of Easement and Maintenance Agreement

→ **Items/stages that must be confirmed/document:**

- 1. All contributing areas are stabilized or device is protected
- 2. Excavation to subgrade (length, width, depth)
- 3. Placement of anchored observation well
  - a. Proper pipe material (size, thickness, solid, perforated)
  - 4. Placement of sand and gravel media (per specifications)
  - 5. Placement of appurtenant conveyance structures
  - 6. Placement and choice of plants and mulch layer (per specifications)
  - 7. Final grading and stabilization
    - a. Observation well 6"-12" above final grade with glued cleanout adaptor and removable plug
    - b. Located downhill from building structures
    - c. Min 10-FT from buildings
    - d. Min 50-FT from confined water supply wells (100-FT from non-confined)
    - e. Min 25-FT from septic systems
    - f. Min 100-FT from fill slopes of 15% and 200-FT from fill slopes of 25%

→ **Inspection and Verification Provided By:**

--- As-Built drawing (*Must be provided prior to Final Inspection*)  
\* Locate the ESD on a drawing in relation to the house/structure

--- OPTION-1: Certified by a Licensed Professional  
OR

--- OPTION-2: Each item/stage documented with digital photo by builder  
(*Must be clear and indisputable photo evidence of compliance*)

OR

--- OPTION-3: Each item/stage inspected by County

--- Final Inspection and Approval by COUNTY prior to U&O issuance

→ **Triennial Inspections required in perpetuity**

## 5.4.3 Micro-Scale Practices

### M-7. RAIN GARDENS

#### REQUIRED

--- Deed of Easement and Maintenance Agreement

→ **Items/stages that must be confirmed/document:**

- 1. All contributing areas are stabilized or device is protected
- 2. Excavation to subgrade (length, width, depth)
- 3. Placement of planting soil and other media (per specifications)
- 4. Placement of appurtenant conveyance structures
- 5. Placement and choice of plants and mulch layer (per specifications)
- 6. Final grading and stabilization

→ **Inspection and Verification Provided By:**

--- As-Built drawing (*Must be provided prior to Final Inspection*)  
\* Locate the ESD on a drawing in relation to the house/structure

--- OPTION-1: Certified by a Licensed Professional  
OR

--- OPTION-2: Each item/stage documented with digital photo by builder  
(*Must be clear and indisputable photo evidence of compliance*)

OR

--- OPTION-3: Each item/stage inspected by County

--- Final Inspection and Approval by COUNTY prior to U&O issuance

→ **Triennial Inspections required in perpetuity**

## 5.4.3 Micro-Scale Practices

### M-8. SWALES

#### REQUIRED

→ **Items/stages that must be confirmed/documentated:**

- 1. Proper placement and backfill of underdrain and sand, soil or gravel medias
- 2. Installation of diaphragms, forebays, check dams and weirs (per specifications)
- 3. Upon proper completion of final grading and permanent stabilization
  - a. Bottom width is between 2-FT and 8-FT wide (per specifications)
  - b. The channel slope 4.0% or less
  - c. Channel side slopes are 3:1 or flatter
  - d. There is a thick vegetative cover

→ **Inspection and Verification Provided By:**

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OR
- OPTION-2: Each item/stage documented with digital photo by builder  
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### M-9. ENHANCED FILTERS

→ An Enhanced Filter is a modification applied to a specific practice (e.g., micro-bioretention) to add groundwater recharge ( $Re_v$ ) to the ESD. The installation of the construction of the enhanced filter will be incorporated into the design and stages of the ESD practice it enhances.

→ **Items/stages that must be confirmed/documentated:**

Follow the requirements listed for the ESD being enhanced.

→ **Inspection and Verification Provided By:**

Follow the requirements listed for the ESD being enhanced.