### Dry Swale Feasibility Checklist

#### Stormwater BMP Category
- **Receiving** Low Impact Development Practice
- **Stormwater Management Practice**

#### SWM Credits

- **SWM Criteria #1**: Runoff Reduction
  - Non-underdrained (infiltration): subtract 100% of storage volume from RR
  - Underdrained: subtract 50% of storage volume from RR
- **SWM Criteria #2**: Water Quality Protection
  - Non-underdrained (infiltration): subtract 100% of storage volume from RR
  - Underdrained: subtract 50% of storage volume from RR
- **SWM Criteria #3**: Aquatic Resource Protection: Proportionally adjust CN to calculate ARPV
- **SWM Criteria #4**: Overbank Flood Protection: Proportionally adjust CN to calculate Q<br
- **SWM Criteria #5**: Extreme Flood Protection: Proportionally adjust CN to calculate Q<br

#### Site Feasibility

- **Contributing Drainage Area**
  - ≤ 5 acre Contributing Drainage Area (CDA) to the BMP
- **Surface Area of the Dry Swale**
  - 5% to 10% of CDA available for the BMP surface area
- **Site Topography**
  - ≥ 1% and ≤ 2% swale longitudinal slope (may be reduced to ≥ 0.5% on flat sites)
- **Depth of BMP**
  - ≥ 4.0’ total depth: surface ponding/flow depth (6”), planting bed (30”), & gravel (12” w/ underdrain)
  - ≥ 3.0’ total depth: surface ponding/flow depth (6”), planting bed (30”), & no underdrain (infiltration)
  - ≥ 2.5’ total depth: surface ponding/flow depth (6”), planting bed (18”), w/ shallow WT
- **Water Table**
  - ≥ 2’ separation (bottom of practice to SHWT)
- **Soils**
  - ≥ 0.25”/hr infiltration rate (infiltration; 100% Runoff Reduction & Water Quality Protection)
  - < 0.25”/hr infiltration rate (underdrain; 50% Runoff Reduction & Water Quality Protection)

#### Site Applicability

- Rural Use: Suitable for use on rural (large lot) subdivisions
- Suburban Use: Suitable for use on most subdivisions, or designated open space areas
- Urban Use: May be suitable for use in urban areas where adequate green space is available for surface conveyance systems
- **Construction Costs:** Low  Medium  High
- **Maintenance:** Low  Medium  High