## Rain Garden Feasibility Checklist

### Stormwater BMP Category

- **Receiving** Low Impact Development Practice

### SWM Credits

- **SWM Criteria #1:** Runoff Reduction: subtract 100% of storage volume from $RR_v$
- **SWM Criteria #2:** Water Quality Protection: subtract 100% of storage volume from $RR_v$
- **SWM Criteria #3:** Aquatic Resource Protection: Proportionally adjust CN to calculate $ARP_v$
- **SWM Criteria #4:** Overbank Flood Protection: Proportionally adjust CN to calculate $QP_{25}$
- **SWM Criteria #5:** Extreme Flood Protection: Proportionally adjust CN to calculate $QP_{100}$

### Site Feasibility

#### Contributing Drainage Area
- □ ≤ 2,500 ft² ( > 2,500 ft² – use Bioretention)
- □ ≤ 150′ length of flow path in pervious contributing drainage area
- □ ≤ 75′ length of flow path in impervious contributing drainage area

#### Surface Area of Rain Garden
- □ 10% to 20% of the size of the Contributing Drainage Area (CDA) (actual surface area requirements will vary based on infiltration rate of the soils)

#### Site Topography
- □ ≤ 6% (average) slopes in the CDA
- □ > 6% (average) with provisions to address runoff velocity & soil erosion and sedimentation

#### Depth of BMP
- □ ≥ 2.5′ total depth: surface ponding (6′), & planting bed (24′)
- □ ≥ 2′ total depth: surface ponding (6′), planting bed (18′ w/ shallow WT)

#### Water Table
- □ ≥ 2′ separation (bottom of practice to SHWT)

#### Soils
- □ ≥ 0.50″/hr infiltration rate
- □ < 0.5″/hr infiltration rate: use Bioretention with underdrain

### 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 on commercial/business developments; consider urban planters

### Construction Costs

- □ Low
- □ Medium
- □ High

### Maintenance

- □ Low
- □ Medium
- □ High