

# Vegetated Filter Strip Feasibility Checklist

## Stormwater BMP Category

- Receiving Low Impact Development Practice

## SWM Credits

- SWM Criteria #1: Runoff Reduction**
  - 60% reduction of  $RR_V$  conveyed through vegetated filter strip on HSG A/B soils
  - 30% reduction of  $RR_V$  conveyed through vegetated filter strip on HSG C/D soils
- SWM Criteria #2: Water Quality Protection**
  - 60% reduction of  $RR_V$  conveyed through vegetated filter strip on HSG A/B soils
  - 30% reduction of  $RR_V$  conveyed through vegetated filter strip on HSG C/D soils
- SWM Criteria #3: Aquatic Resource Protection: Proportionally adjust CN to calculate  $ARP_V$**
- SWM Criteria #4: Overbank Flood Protection: Proportionally adjust CN to calculate  $Q_{P25}$**
- SWM Criteria #5: Extreme Flood Protection: Proportionally adjust CN to calculate  $Q_{P100}$**

## Site Feasibility

### Contributing Drainage Area

- $\leq 150'$  length of flow path in pervious contributing drainage area
- $\leq 75'$  length of flow path in impervious contributing drainage area

### Surface Area of Vegetated Filter Strip

- $\geq 25'$  length of flow path within the 'receiving' vegetated filter strip; or
- $\geq 15'$  length of flow path within the 'receiving' vegetated filter strip if equipped with permeable berm
- $\geq 0.5\%$  and  $\leq 6\%$  slope within the 'receiving' vegetated filter strip

### Site Topography

- $\leq 3\%$  slopes in the contributing drainage area; or
- $> 3\%$  slopes with terracing or level spreaders at 20' intervals

### Water Table

- No restrictions
- Consider use of pocket wetlands or wet swales in areas where shallow water table causes surface ponding

### Soils

- No restrictions (although vegetated filter strips on HSG A/B soils provide greater benefits; consider soil restoration in HSG C/D soils)

## Site Applicability

- Rural Use: Suitable for use on most rural (large lot) developments
- Suburban Use: Suitable for use on most suburban developments (e.g., designated open space areas)
- Urban Use: Generally not suitable due to lack of green space and sheet flow in urban/commercial areas; however filter strips may be used with appropriate sizing and sheet flow provisions.
- Construction Costs: 

Low	Medium	High
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- Maintenance: 

Low	Medium	High
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