

# Permeable Pavement Feasibility Checklist

## Stormwater BMP Category

- Low Impact Development Practice
- Alternative to Impervious Surfaces

## SWM Credits

- SWM Criteria #1:** Runoff Reduction
  - Non-underdrained (infiltration): subtract 100% of storage volume from  $RR_v$
  - Underdrained: subtract 50% of storage volume from  $RR_v$
- SWM Criteria #2:** Water Quality Protection
  - Non-underdrained (infiltration): subtract 100% of storage volume from  $RR_v$
  - Underdrained: subtract 50% 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  $Q_{P25}$
- SWM Criteria #5:** Extreme Flood Protection: Proportionally adjust CN to calculate  $Q_{P100}$

## Site Feasibility

### Contributing Drainage Area

- Replaces traditional impervious pavement surfaces
  - Practice should not receive 'run-on' from additional contributing drainage area
  - If additional area of 'run-on' cannot be avoided, specific pretreatment and maintenance provisions may be necessary.

### Site Topography

- $\leq 6\%$  pavement slope
- Subgrade slope as flat as possible

### Depth of BMP

- $\geq 2'$  feet total depth: Surface course, bedding layer, stone reservoir depth as needed
  - Stone reservoir depth for  $RR_v$
  - Stone reservoir depth for  $ARP_v$
  - Stone reservoir depth for  $Q_{P25}$
  - Stone reservoir depth for  $Q_{P100}$

### Water Table

- $\geq 2'$  separation (bottom of practice to SHWT)

### Soils

- $\geq 0.25''/\text{hr}$  infiltration rate (infiltration; 100% Runoff Reduction & Water Quality Protection)
- $\leq 0.25''/\text{hr}$  infiltration rate (underdrain; 50% Runoff Reduction & Water Quality Protection)

## Site Applicability

- Rural Use: Suitable for use in rural development areas
- Suburban Use: Suitable for use in most suburban residential and commercial areas
- Urban Use: Suitable for use on most commercial/business developments
- Hot Spots: Not suitable for urban stormwater hotspots
- Construction Costs:           Low                   Medium           High
- Maintenance:                   Low                   Medium           High