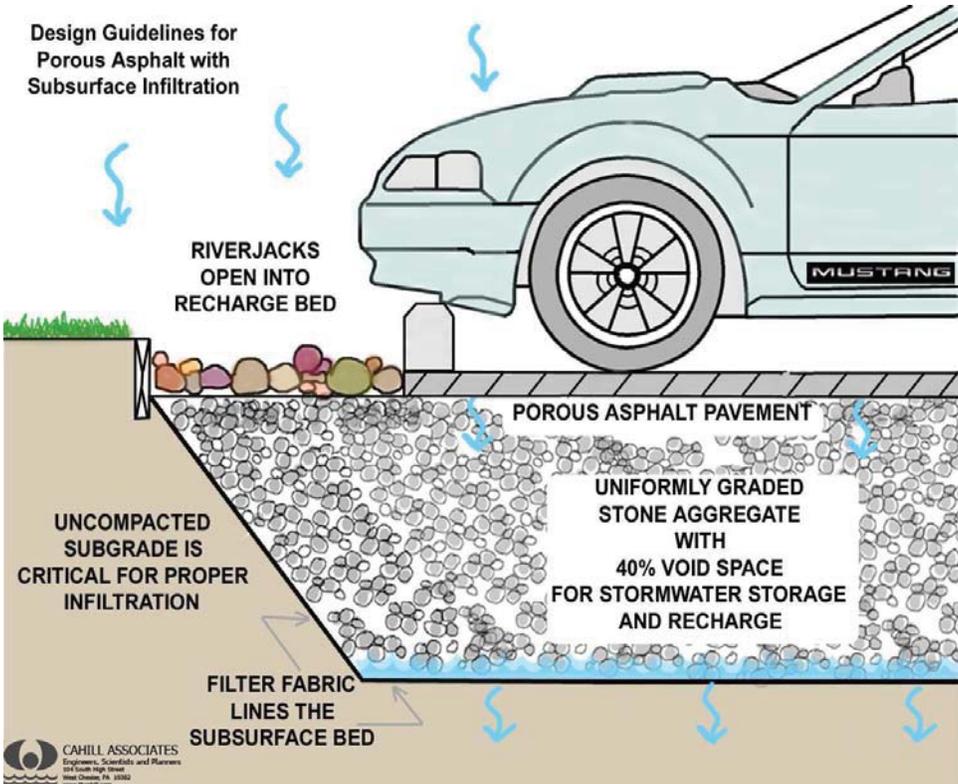


3.29 Permeable Pavement

Pervious paving allows water to infiltrate into layers of gravel placed below the paving and then into soil and groundwater below. By infiltrating most of the storm water on-site, the amount of water and pollution flowing into storm sewers and directly to rivers and streams is greatly reduced. This, in turn, protects water quality, maintains more stable base flows to streams, reduces flood peaks, and reduces stream bank erosion. With infiltration, groundwater is recharged and streams are replenished with cool, clean groundwater in a more natural way. Pervious paving is one component of Low Impact Development (LID).



Permeable Pavement Checklist

Frequency	Drainage System Feature	Date				Problem	Conditions to Check For	Conditions That Should Exist
		✓	✓	✓	✓			
BI-ANNUAL	Surface					Pervious asphalt or cement concrete	None. Maintenance to prevent clogging with fine sediment.	Use conventional street sweepers equipped with vacuums, water, and brushes or pressure washer to restore permeability. Vacuum or pressure wash the pavement two to three times annually.
Ongoing	Surface					Pervious asphalt or cement concrete	None. Maintenance to prevent clogging with fine sediment.	Prohibit use of sand and sealant application and protect from construction runoff.
ANNUAL	Surface					Pervious asphalt or cement concrete	Major cracks or trip hazards.	Fill with patching mixes. Large cracks and settlement may require cutting and replacing the pavement section.
As needed	Surface					Pervious asphalt or cement concrete	Utility cuts.	See utility restoration protocol on COP website.
BI-ANNUAL	Surface					Fallen leaves / debris	Fallen leaves or debris.	Remove/dispose.
BI-ANNUAL	Surface					Interlocking concrete paver blocks	Interlocking paving block missing or damaged.	Replace damaged paver block
ANNUAL	Surface					Interlocking concrete paver blocks	Settlement of surface.	May require resetting
BI-ANNUAL	Surface					Interlocking concrete paver blocks	Sediment or debris accumulation between paver blocks.	Remove/dispose
ANNUAL	Surface					Interlocking concrete paver blocks	Loss of void material between paver blocks.	Refill per manufacturer recommendations.
Varies	Surface					Interlocking concrete paver blocks	Varied conditions.	Perform O&M per manufacturer recommendations.
BI-ANNUAL	Surface					Open-celled paving grid with gravel	Sediment or debris accumulation in grid voids.	Remove/dispose
ANNUAL	Surface					Open-celled paving grid with gravel	Loss of soil and/or grass material in grid.	Refill and/or replant per manufacturer recommendations.

Permeable Pavements (Continued)

Varies	Surface					Open-celled paving grid with gravel	Varied conditions.	Perform O&M per manufacturer recommendations.
BI-ANNUAL	Surface					Open-celled paving grid with grass	Sediment or debris accumulation in grid voids.	Remove/dispose
ANNUAL	Surface					Open-celled paving grid with grass	Loss of soil and/or grass material in grid.	Refill and/or replant per manufacturer recommendations.
Varies	Surface					Open-celled paving grid with grass	Varied conditions.	Perform O&M per manufacturer recommendations.
BI-ANNUAL	Overflows and Emergency Spillways					Obstructions / debris	Obstructions or debris block 30% or more of outlet structure.	Remove/dispose
BI-ANNUAL	Overflows and Emergency Spillways					Erosion	Native soil is exposed or other signs of erosion damage are present.	Repair erosion and stabilize surface of spillway
Ongoing	Spill Prevention and Response					Spill prevention	Storage or use of potential contaminants in the vicinity of facility.	Exercise spill prevention measures whenever handling or storing potential contaminants
As needed	Spill Prevention and Response					Spill response	Release of pollutants. Call to report any spill to the the Wa Dept of Emergency Management 1-800-258-5990	Cleanup spills as soon as possible to prevent contamination of stormwater

If you are unsure whether a problem exists, please contact a Professional Engineer

Comments:

Key:

(MONTHLY) Monthly from November through April.
 (ANNUAL) Once in late summer (preferable in Sept)
 (STORM) After any major storm (use 1-inch in 24 hours as a guideline).
 (Bi-annually) Twice per year in the spring and fall
 (Quarterly) 4 times per year