

Road Drainage

Civil Engineering

Water off the surface, out of the layers.

Most pavement failures are drainage failures wearing a disguise.

Surface water

Crossfall and longitudinal fall together

Gullies spaced to limit flow width

Kerb and channel, or an edge filter

Outfall to sewer, ditch or soakaway

Treatment before a sensitive outfall

Sub-surface

Fin or filter drain at the pavement edge

Permeable sub-base to relieve pressure

Cut-off drain above a cutting slope

Sealed capping over a wet subgrade

Blocked drains destroy pavements fast

Educational reference. Drainage design follows the highway authority's standards and the local environmental regulator.