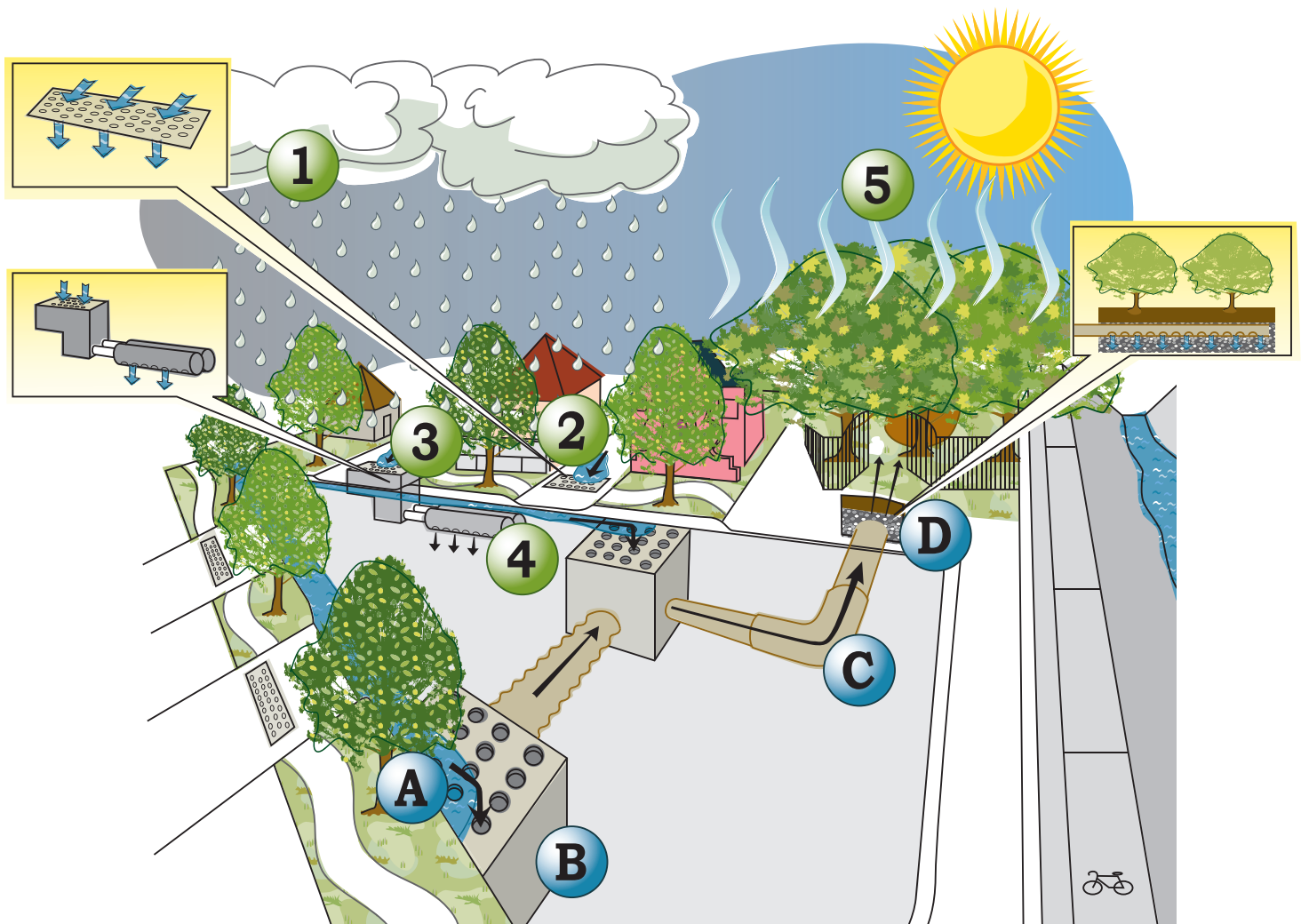


What is a Green Street and How Does it Work?



"Green Streets" are streets that have been transformed from "water conveyance channels" designed to route rainwater unfiltered swiftly into the Los Angeles River and other tributaries to streets where rainwater is intercepted and cleaned using "nature's services" provided by soil and vegetation. To do this requires retrofitting driveways, sidewalks, parkways and streets with devices to intercept the water and direct it into places where it can percolate through gravel and soil and be taken up by plant roots into the plants themselves. Both of these methods act as filters to remove debris, sediment, grease and oil, trace metals and bacteria from the water. These methodologies provide the added benefit of safely storing this stormwater naturally underground within the local sub-watershed, and transpiring it back into the atmosphere.

1. Rain
 2. Stormwater flows down driveway into trench drain
 3. Stormwater is collected in trench drain and flows into stormwater garden in adjacent parkway
 4. Stormwater flows into perforated pipe in stormwater garden where it percolates downward through surrounding gravel and soil
 5. Stormwater flowing into stormwater garden is absorbed through tree roots into tree – some is stored in tree and some "evapo-transpires" out through leaves in tree canopy back into the atmosphere – this occurs in both the stormwater gardens located along the parkways of the residential street and in the park at the end of the street
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- A. Stormwater that makes its way to the street flows down the gutter to specially-designed catch basins on both sides of the street
 - B. Stormwater enters the catch basin where sediment, debris, grease and oil is filtered out before the water continues on in pipes to the park at the end of the street
 - C. Filtered stormwater continues through pipes into the park where it enters an infiltration "gallery" consisting of perforated pipe, sand, gravel and soil
 - D. Water gets further filtered as it percolates downward through the perforated pipe, gravel, sand and soil

