



Front Parking Lot - Before (above) & After (below)

THIS IS A PERMEABLE PARKING LOT ~RESTORING EUCLID CREEK~



Front Entrance - Before (above) & After (below)

What is a Permeable Parking Lot?

A permeable parking lot allows rainfall that would normally become polluted storm water runoff to filter into the ground unlike on conventional pavements. In this case, the pavement consists of a drivable permeable concrete brick paver surface with gravel underneath through which rainfall and snow melt are able to infiltrate to the soil beneath.

What are the benefits of Permeable Pavement?

Permeable pavement reduces the overall volume of storm water runoff by allowing water to infiltrate into the ground below. In summer months, heated water entering Euclid Creek directly from conventional parking lot runoff can harm aquatic life and habitat, therefore reducing this thermal loading will improve the overall creek health. In winter months, thermal warming of the lot from the ground could reduce the amount of salt use, leading to improved water quality in Euclid Creek.

Why do we need Permeable Pavement?

Over the years, development of our land has resulted in soil compaction and an increase in impervious, hard surfaces such as parking lots. During rainstorms, instead of being absorbed and filtered by the soil, the storm water runs off the land, which contributes to flooding, erosion and water quality issues. Permeable pavement is one way communities can help reduce storm water pollution and improve water quality.

Why is this Permeable Parking Lot Here?

This particular permeable parking lot replaced the existing impervious concrete parking lot, the front walkway and entrance using pervious concrete brick pavers in front of South Euclid City Hall. Storm water runoff infiltrates through the 8,502 square foot parking lot and sidewalk capturing polluted storm water runoff before it enters local storm sewers which ultimately lead to Euclid Creek. 318 square feet of unnecessary concrete was removed and replaced with native plantings.

This project is a part of South Euclid's Green Neighborhoods Initiative and highlights its commitment to creating a more sustainable, desirable community.

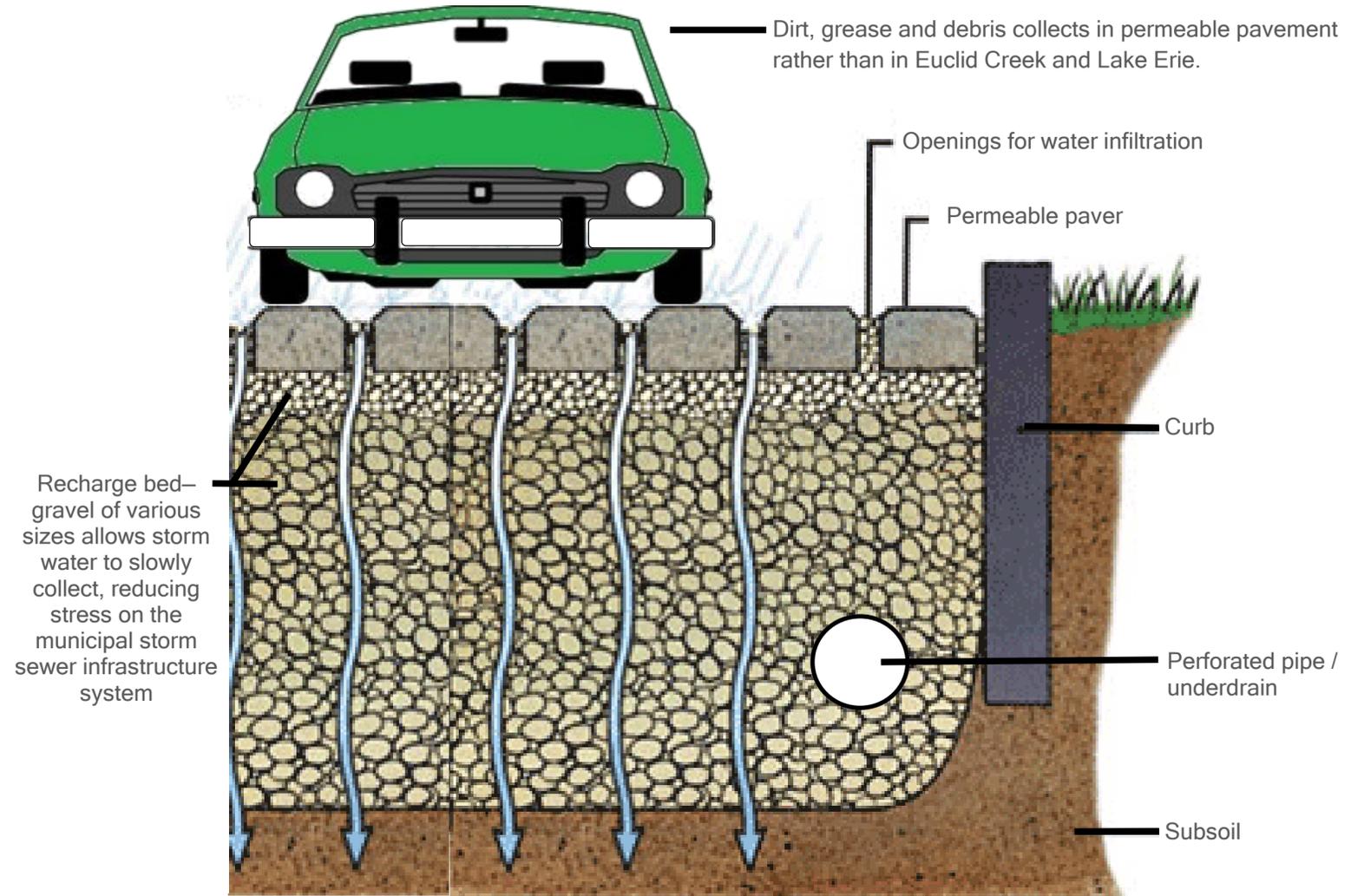


ILLUSTRATION SOURCE: MyPaverDriveway.com WEBSITE

How Does Permeable Pavement Work?

This cross section shows the various components of a permeable paver parking lot. Pervious pavers were placed over various sizes of stone that create voids to store storm water. The water then infiltrates through the stone aggregate and drains out through an underdrain/perforated pipe into the soil below where the water is naturally filtered and pollutants are removed, eventually flowing to Euclid Creek.

Constructed in August 2013 by the City of South Euclid, supported by Cuyahoga Soil & Water Conservation District, and the Euclid Creek Watershed Council.

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