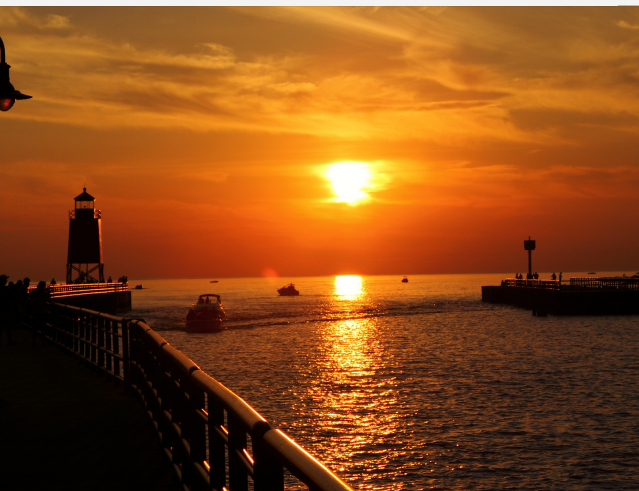


LAKE CHARLEVOIX GREEN STORMWATER INFRASTRUCTURE

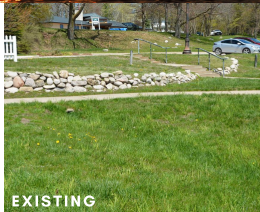
Residents of the partner cities of Boyne City, Charlevoix, and East Jordan are invited to participate in a Green Stormwater Infrastructure (GSI) visioning process. Green stormwater infrastructure uses native vegetation and natural processes to capture pollutants, minimize nutrient runoff, and reduce stormwater to protect Lake Charlevoix.

Take the Survey by December 1: <https://arcg.is/0iWbz5>



RAIN GARDEN OR BIORETENTION

Rain gardens, also known as bioretention basins, allow stormwater to be both cleaned and reduced in volume. They also provide valuable habitat for birds, butterflies and many beneficial insects.



GREEN ALLEY

Alleys and low traffic roads can incorporate permeable pavers and underground stormwater storage to help intercept, filter and infiltrate stormwater before it drains into stormwater catch basins.



EXISTING

PROPOSED

TREE BOX FILTER

Stormwater runoff is captured by catch basins on the street. Stormwater waters the trees and infiltrates into the soil instead of being piped away.

A GREEN VISION FOR YOUR COMMUNITY



RIPARIAN BUFFER

Native riparian buffers provide many benefits to the lake ecosystem, including shoreline stabilization and erosion control, habitat for shoreline-dependent species, infiltration of runoff, and filtration of pollutants such as sediments, nutrients, and chemicals.

PERMEABLE PAVEMENT

Porous or permeable pavement surfaces allow stormwater to infiltrate into underlying soils, thereby promoting pollutant treatment and groundwater recharge.

Examples of Porous Pavements



Permeable Pavers



Permeable Concrete



Grass Pavers