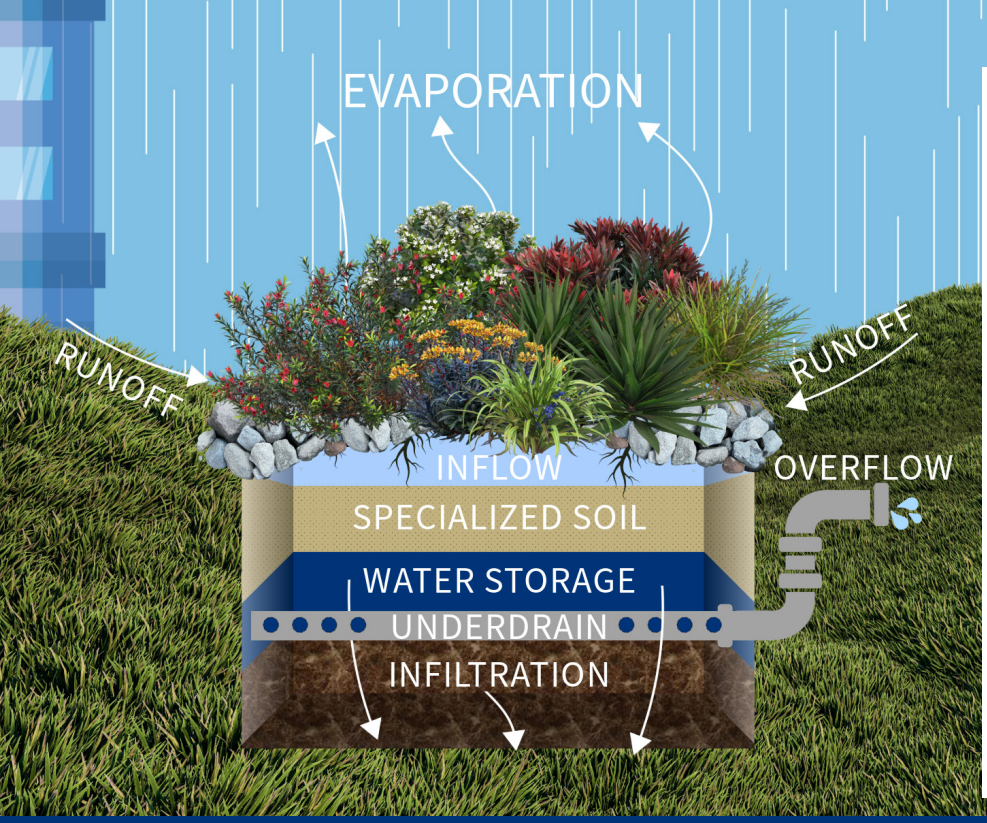

What is Green Stormwater Infrastructure?

Green Stormwater Infrastructure (GSI) helps preserve the natural environment by managing stormwater runoff from hard surfaces like roads, sidewalks, and driveways. It captures, filters, and reduces the runoff by slowing, spreading, and infiltrating it into the ground using specialized soil, native plants, and stones. Additional benefits of GSI include improved water and air quality, reduced urban heat island effects, and enhanced habitat for wildlife and pollinators.

LIONS PARK GSI INSTALLATION

In 2025, two GSI features will be installed at Lions Park that will help clean and treat stormwater runoff from the park's roads, parking lots, and buildings. The GSI features will also create more habitat for wildlife and pollinators and reduce pollution in Bridges Branch, which flows into Crabtree Creek. This project is funded by the American Rescue Plan Act (ARPA).

PROJECT SITE

GSI features will be installed at two locations within the park.

Location A: North of the main park entrance on Dennis Avenue.

Location B: In front of the community center.

Scan the QR code or visit raleighnc.gov and search "Lions Park GSI" to learn more about this project. You can also contact Raleigh Stormwater at RaleighStormwater@raleighnc.gov or 919-996-3940.

LOCATION A

Subsurface Gravel Wetland

A subsurface gravel wetland will be constructed at Location A that will treat stormwater from 14.5 acres acres of land. This type of GSI captures and filters stormwater through sand and stone to remove pollutants. This innovative wetland doesn't have a permanent pool of water; instead water is stored in gravel underground. The finished wetland will have native grasses and other plants to beautify the area, along with a bench for residents to enjoy.

Example of a completed subsurface gravel wetland on Peterson Street across from the Walnut Creek Wetland Center and the Little Rock Greenway Trail.

LOCATION B

Bioswale

A bioswale will be constructed in front of the community center that will treat stormwater from 0.4 acres of land. This type of GSI has a layer of specialized soil that helps filter and absorb stormwater. Stormwater runoff from the parking lot will flow into the bioswale device and infiltrate through the specialized soil. The bioswale will be planted with bermuda grass similar to the existing site. The shrubs in front of the community center will be replaced with native plant species to attract butterflies and songbirds.

Example of a grassed bioswale.

Plant species were selected to provide key benefits, such as habitat for butterflies, birds, and wildlife and improved soil health.

Q & A

TETRA TECH

When will the work be done?

Construction will begin in 2025 and will last up to six months.

Will construction impact park visitors and neighborhood residents?

Active construction will not interfere with daily park activities. Dennis Avenue will remain open next to Location A with no impacts to access for visitors and residents. At Location B, a portion of the parking lot will be closed, but the sidewalk to the playground and picnic shelter will remian open throughout construction.