KC GREEN INFRASTRUCTURE

Explore & Discover

20TH STREET GREEN INFRASTRUCTURE SITE

Green infrastructure helps our community manage stormwater the way nature intended by capturing and utilizing rainwater where it falls. This 3.37 acre site absorbs and filters approximately 137,350 gallons of stormwater per year in the OK Creek Watershed Basin. It also replenishes groundwater and sustains plants, trees, and natural habitats while working with gray infrastructure to increase the capacity of our underground pipes.

Project Area

Project Snapshot

- **Details:** This project features a combination of bioretention basins and underground detention. Under the sidewalk, rectangular culvert sections were constructed to help store excess stormwater.
- **Investment:** Installed by Kansas City, Missouri Public Works, this design-build project was completed in 2016 for approximately $2,200,000. KC Water's Green Stewards workforce development program implemented by Bridging The Gap has maintained the surface green infrastructure at this site since 2018.

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WHAT DOES THIS SITE DO?

GREEN INFRASTRUCTURE decreases the amount of water getting into our pipes, improves water quality, and reduces flooding, pollution, and trash in our streams, rivers, and lakes. The 20th Street Green Infrastructure site includes:

- **Bioretention basins** are filled with plants to help absorb excess stormwater from impervious surfaces such as streets, rooftops, and sidewalks. Layers of rock and soil store the water while a buried underdrain and storage system collect the excess water and control the slow release back into the sewer system.
- **Underground detention** means there is more than meets the eye with this installation. The system of bioretention basins are connect to underground storage, constructed of box culvert sections under the sidewalk.

Before Rain Storm

During Rain Storm