BISCUIT CREEK STABILIZATION + CENTRAL PARK IMPROVEMENTS*

CORALVILLE, IOWA


BEFORE


1 YEAR AFTER


DURING


1 YEAR AFTER

COMPLETION DATE
2022

COST OF SERVICES
Construction: $400,000
Design and Permitting: $105,000

REFERENCE
Amy Foster
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**Project completed by Aaron Gwinnup, PE and Lee Strait at a previous employer.*

PROJECT OVERVIEW
This project improved over 1,500 linear feet of stream through a City park and wooded residential area. The upstream end of the project significantly reduced recurring flooding in a historically low-income residential area, and also improved the streambank stability and riparian vegetation while protecting an underlying sanitary sewer. "Backyard nature play" opportunities for neighborhood kids were dramatically improved by removing tons of dangerous debris from the stream, thick invasive vegetation, and serious poison ivy infestations. The downstream end of the project reduced the slope of streambanks in a City park next to a public school, added pool / riffle elements, and removed a non-ADA compliant footbridge, which will be replaced with a new compliant structure. The overall project added much needed sinuosity, many floodplain benches, and 5 rock grade control features, one of which was designed as a "stepping stone" arch weir to promote kids in the park interacting with the re-naturalized waterway. As a bonus element, excess soil from the bank excavation was used to create a grassy "knoll and tunnel" playscape in the park.

PROJECT HIGHLIGHTS:
- Residential Flood Risk Reduction and Social Equity Components
- Hydraulic Analysis and No-Rise Certification
- Stream Grade Control and Streambank Stabilization
- Riparian Habitat and Native Vegetation Improvements
- Public Park, Stream, and Wetland Improvements Adjacent to a Public Elementary School
- Iowa Watershed Approach and City Funding Sources