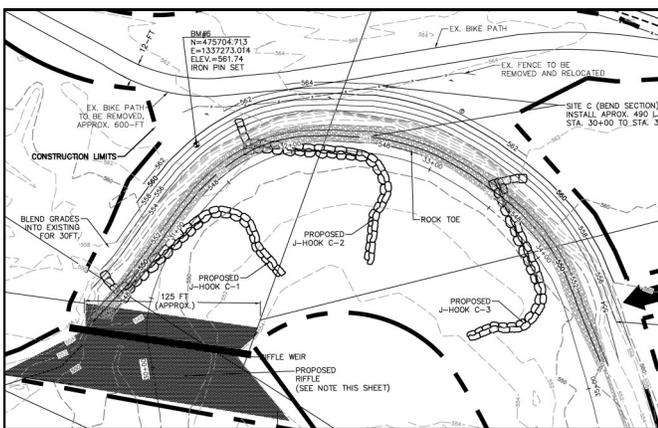


Coldwater Consulting provided planning, design and permitting services to Great Parks of Hamilton County (GPHC) for its Dry Fork Creek Phase II Restoration project. This project was focused on restoring and protecting three reaches of the Dry Fork Creek located on Miami Whitewater Forest Park property. The geology of each area featured non-cohesive soils and the stream channels exhibited significant erosion and migration in recent years. At the most impacted reach, the channel had migrated approximately 250 feet over the previous 20 years. These instabilities created a significant damage risk for adjacent park infrastructure (shelterhouse and paved bike path) and served as a source of sediment loading for the stream.

Coldwater’s approach began with a site survey, geomorphic analysis of the stream, and development of alternatives designed to meet the project goals of stabilizing the stream, minimizing construction costs, and meeting GPHC’s requirements for the Park. Following the selection of the preferred alternative, Coldwater began work on the design drawings, technical specifications, permitting documents and cost estimates. GPHC staff reviewed plans during their development and provided input to ensure the final design met their requirement for park operations, native species and visual impact to the surrounding environment.



*Dry Fork Creek streambank. Note area of active erosion and failing bike path pavement.*



*Proposed improvements at this location of the project included three J-hook structures, a constructed riffle, and “bankfull bench” grading along the streambank.*

The final design was based on the reconstruction of the eroded streambanks using a “bankfull bench” typical section featuring a rock toe. To provide additional stability, J-hook structures and constructed riffles were included in the improvements at two of the work areas. Site restoration improvements included native seed, live stakes, shrubs and trees. Coldwater also successfully obtained permits from all regulatory agencies, which included Hamilton County (floodplain and sediment & erosion control), the Corps of Engineers, and the Ohio EPA (construction permit). The final construction contract award was within the project budget and reflected a competitive bidding environment (total of 6 bids received). Coldwater was retained during construction to assist with site inspections, submittal reviews, and discussions with the contractor.