

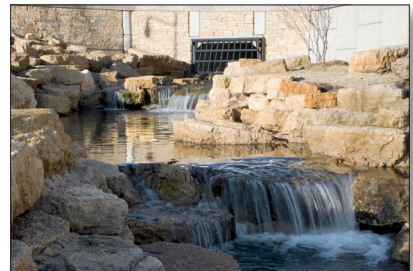
Boneyard Creek - Second Street Detention

Champaign, Illinois

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Public Works Project of the
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Introduction

This latest phase of the Boneyard Creek improvements provides a recreational amenity connecting the University of Illinois campus, a public park, residential, and commercial districts with the enlivened downtown retail and dining area, as well as provides 42 acre feet of stormwater detention. The city and Foth both recognized the opportunity to marry the technical storm water detention solutions with the quality of life enhancements of a water/recreation path feature. The multi-purpose design of the Second Street detention basin transformed a blighted urban area into a public gathering and recreation destination. Private sector investment and in-fill opportunities along the project fringe are apparent, and the surrounding corridors are already transforming.

Specifics

Foth is the lead consultant for program planning, schematic, and final design services for creating storm water detention in a mixed use urban environment. The storage facility is a water amenity for Champaign residents, creating a recreation area with a multi-use path.

This section of the Boneyard Creek extends from Springfield Avenue (IL Route 10), under an historic bridge and through residential and commercial areas. Extensive coordination during the design and construction phases was required with city officials, adjacent landowners, residents, and businesses.

The scope of work includes the update of the hydraulic/hydrologic model using SWMM 5, as well as preparation of schematic design plans, final construction documents, permitting

and construction observation. Permitting includes coordination with the Corps of Engineers, Illinois Environmental Protection Agency, Historic Preservation, Illinois Department of Natural Resources, and local sanitary district. Additional agency coordination included the Sierra Club and Prairie Rivers Network.

Value

- ◆ Throttle at the White Street bridge to optimize north and south basin detention.
- ◆ Pumped recirculation to improve water quality and provide active water features.
- ◆ Gravity flow through the basins.
- ◆ Preservation and incorporation of historically significant Stone Arch Bridge into the water features.

