

Project Name

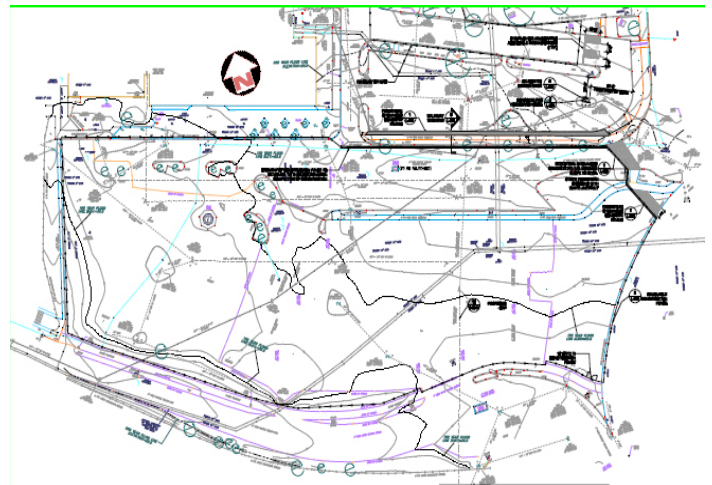
Trenton Capitol Park System

Client

Wallace, Roberts & Todd (via a contract with the State of New Jersey)

Services Provided

- Input for development of Master Plan
- Analysis of permitting issues
- Testing and evaluation of potential soil contamination
- Site Investigation
- Remedial Investigation
- Site engineering
- Design of road relocation
- Alternatives analysis for opening stone arch drain structure
- Conceptual design of water power device
- Soil reuse planning
- Preparation of Remedial Action Workplan
- Stormwater analysis and design



Project Description

SAI was chosen to assist the architectural firm of Wallace, Roberts & Todd (WRT) in the redevelopment of a new Capitol Park area on the waterfront in Trenton. The purpose of this project is to create the initial phases of a major urban state park for the benefit of residents of and visitors to New Jersey's capitol city. The City's Master Plan describes this area as "...an urban state park to be created with economic, recreational and environmental motives. Capitol Park will catalyze a process of regenerating downtown Trenton through tourism, new development, and an enhanced living and working environment. The overarching goal of the project is to use the Capitol Park to create a more sustainable, more lively and livable Trenton." SAI is assisting WRT on two specific portions of the overall Capitol Park project: the Commons Project, and the Petty's Run project.

Approach

The Commons

The Commons is located adjacent to and partially within the southernmost portion of the State House Historic District. The project team is proposing to improve this area by replacing surface parking with a spacious lawn adjacent to the State House, with seating and shade trees, within sight of the Delaware River. SAI's tasks in support of these efforts included the testing and evaluation of potential soil contamination at the location, and performing the site engineering to prepare the layout for the development of the park. Most of this area lies within the 100-year flood zone, so SAI also prepared a detailed stormwater analysis to support a Flood Hazard Permit Application. SAI completed the final design for this site.



Petty's Run

Petty's Run is a long-buried creek that drains directly to the Delaware River. It courses through an old, picturesque drain arch structure that is currently beneath Mahlon Stacy Park, between the State House and Thomas Edison State College. This creek provided power to operate some of Trenton's earliest industries, such as a water-powered blacksmith's shop and a steel furnace. The City wishes to expose some of the historic drain arch structure and with it, the foundations of some of these old industrial facilities, in order to reclaim and interpret the role of Petty's Run over the course of Trenton's history. SAI's tasks in support of the effort to restore this creek included completing an analysis of potential alternatives for opening up the stone arch drain structure, performing a Remedial Investigation, preparing a Remedial Action Workplan, disposing of historic fill materials, and preparing a conceptual design of a waterwheel to replicate the historic water power devices that once existed in this part of Petty's Run.

Permitting

- Environmental Impact Statement
- NJDEP Flood Hazard Area
- Cultural and Historic Resources
- Stream Restoration
- Surface Water Allocation Permit
- Soil Erosion & Sediment Control Permit

Project Impact

This project will completely overhaul the look and feel of the downtown Trenton waterfront area. It will provide economic, recreational and environmental opportunities to Trenton residents and visitors, and will help to resurrect some of Trenton's unique history. The overarching goal of the project is to create a more sustainable, more lively and livable downtown Trenton.