

Macombs Dam Bridge over the Harlem River



Owner: New York City Dept. of Transportation

Project Location: Manhattan/Bronx, NY

As a subconsultant for this \$91-million construction project, GPI is providing construction engineering and inspection of the rehabilitation of the Macombs Dam Bridge over the Harlem River. This involves highly-complex MPT phasing and detour routing to completely redeck and reconstruct many portions of the Macombs Dam Bridge and its interchanges, approaches and ramps (which are elevated viaduct sections). The Macombs Dam Bridge is the oldest swing bridge in New York City.

The swing bridge portion is undergoing a major overhaul of the electrical/mechanical components, including a new control house and safety gate systems. A notable characteristic of this project is that it crosses the New York Yankee Stadium facility. The NY Yankee organization has an agreement with the NYCDO'T to minimize all major traffic impacts during the baseball season. Therefore, the majority of construction operations must take place in the winter season.

There will be a major alteration to the truss span over the Oak Point Link rail line, and major structural reinforcement performed to the fracture critical elements of the bridge spans. The structure, ramps and moveable bridge portion will be completely deleaded using class A containment and new coating applied. There is also historic preservation of fountains, statues and other fencing ornamentation in the plaza areas off the ramps of the bridge.