

Kingston-Rhinecliff Bridge Toll Plaza Reconstruction



Client/Owner: NYS Bridge Authority
Project Location: Kingston, NY

This project consists of a Toll Plaza Reconstruction at the Kingston Rhinecliff Bridge west approach. The contract was awarded to GPI to provide the complete toll plaza study, final design and construction support services.

GPI developed and presented preliminary design alternatives to Authority for the construction of a dedicated “EZ Pass Only”, 3rd toll lane at the plaza. Following preliminary design, the Authority directed GPI to prepare construction documents for the selected alternative. GPI assisted the Authority throughout the bidding and award process and performed review of all Contractor submissions throughout construction.

Facets of the project included the following:

- Topographical survey of the existing and “As-Built” conditions
- Design of the widening and realignment of the Westbound travel lane to allow construction of a new 3rd eastbound toll lane
- Development of Maintenance and Protection of Traffic schemes
- Construction Phasing and Sequencing
- Drainage System improvements
- Design and analysis of a double-cantilevered sign structure integrated and supported by the existing toll plaza canopy
- Design of 3 prismatic Variable Message Signs supported by the new sign structure at the toll booth canopy
- Modification of the existing toll booths to incorporate rear entry doors as a safety improvement for toll booth attendants
- Hydraulic study, design and permitting investigation for a stream crossing along the toll plaza access road that leads to the Hudson River below the bridge