

Contract R-1412, Widening of the East Viaduct and Grand Street Exit Ramp, Structure Nos. N6.49 and N6.80E



Client/Owner: New Jersey Turnpike Authority
Project Location: Jersey City, NJ
Construction Cost: \$30 million

GPI provided design services for the 5,000-foot widening of a complex viaduct to provide additional capacity for access to new waterfront development projects in Jersey City, NJ. The viaduct crosses local city streets, active and abandoned freight rail lines, wetland areas, and utility facilities. The project required all engineering and environmental design services from scoping through final design. The project included permitting and hazardous materials screening; ROW and utility engineering; geotechnical subsurface investigation and design; community outreach and coordination; design of structural alternative widening schemes; design of highway geometric alternative ramp configurations; traffic studies; rating analysis to determine affect of widening on existing superstructure and requirements for strengthening; seismic evaluation and design of retrofit schemes; design of deck and parapet replacement outside of widening limits; design of bearing repairs, bearing replacement, structural steel repairs, and substructure repairs; design of overhead and ground mounted sign structures; final design and preparation of plans, specifications, and cost estimate; and design support during construction. The project was completed to allow the ramp to be opened to traffic in October 2005.