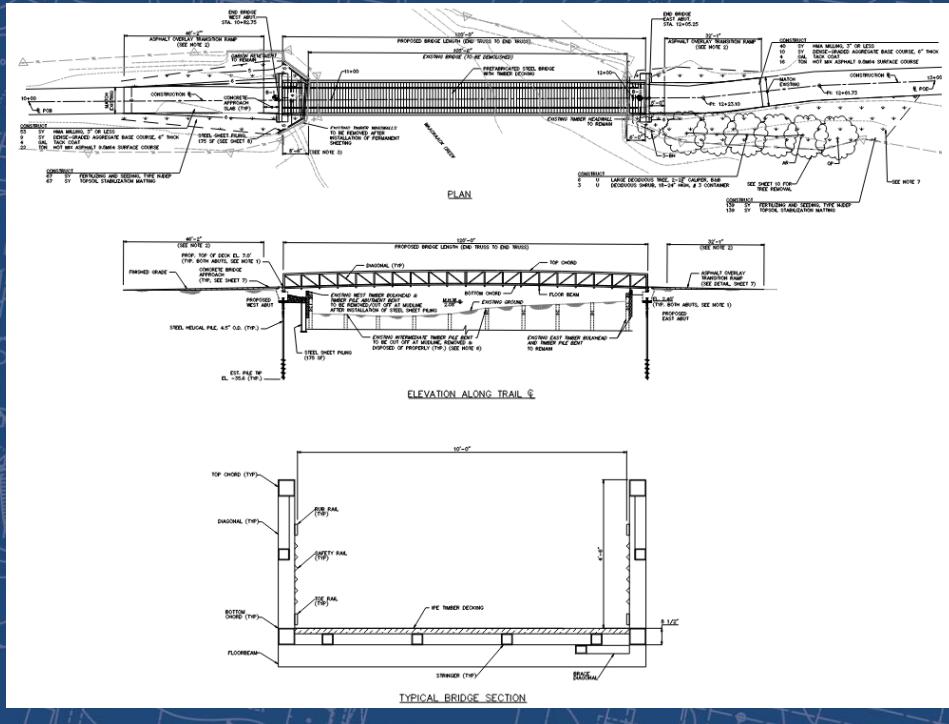


Replacement of Waackaack Creek Pedestrian Bridge

Henry Hudson Trail over Waackaack Creek



Van Cleef was contracted by the Monmouth County Park System to provide final design and construction support services for the replacement of the Waackaack Creek Pedestrian Bridge along the Henry Hudson Trail over Waackaack Creek in Keansburg, NJ. The existing structure is a nine (9) span, 105' long timber truss supported by timber substructures and is being replaced due to advanced deterioration. The existing bridge will be replaced with a single span, 120' long prefabricated steel Pratt truss bridge with new concrete abutments constructed landward of the existing timber abutments. The new reinforced concrete abutments will be supported on helical piles. The bridge was designed for pedestrian loading and H-10 maintenance trucks. At the west abutment, permanent sheet piling will be installed behind the existing abutment prior to its removal and will provide protection against erosion resulting from the tidal flows of Waackaack Creek. Asphalt overlay ramps will be constructed at each approach due to a slight increase in grade required for the proposed bridge to span over the existing abutments. Surrounded by wetlands and located within a brackish environment, the new steel truss will be protected from corrosion by a duplex coating system consisting of both painting and galvanizing, guaranteeing a lifespan of 50 years. A detour of the trail pedestrian and bicycle traffic in the vicinity of the bridge will be in effect throughout the duration of construction.

Project elements include topographic LiDAR scanning, bridge design, foundation design, steel bridge fabricator coordination, construction administration services, and construction inspection services.

CLIENT CONTACT

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PROJECT HIGHLIGHTS

- Bridge Replacement
- Geotechnical Design
- Aerial Drones and LiDAR Scanning
- Traffic Control
- Construction Administration
- Construction Inspection