

# Inspection and Rehabilitation of the Arthur Kill Timber Pier

Borough of Carteret | Middlesex County, NJ



As part of the revitalization of the Borough of Carteret and the shorelines, the Mayor of Carteret requested to inspect, evaluate, and provide recommendations for repair or replacement of an existing and deteriorated 540' long timber pile bent pier within the Arthur Kill. The pier is estimated to be built in the 1920's and was originally used as a loading dock with crane rails for large vessels unloading shipments to the industrial areas along the Arthur Kill.

As a result of Van Cleef's inspection, supplemented by an underwater inspection, it was determined that a rehabilitation and conversion to a pedestrian pier was feasible.

Rehabilitation work included the design for a complete redecking with new timber planks, design checks for the existing timber pile caps and stringers to accommodate pedestrian and emergency vehicle loading, resulting in new supplemental stringers, and various timber pile and bracing repairs. Design work also included the replacement of a timber bulkhead with a steel sheet pile bulkhead with tiebacks in less than desirable soil conditions.

The project also included the oversight during construction for the pier rehabilitation by a Van Cleef Construction Inspector, along with shop drawing and construction consultation services.

## CLIENT CONTACT

Borough of Carteret

## PROJECT HIGHLIGHTS

- Bridge (Pier) Inspection
- Structural Design (Timber, Steel Sheeting)
- Geotechnical Engineering
- Construction Inspection