



Upper left: Wave screen and floating dock; Lower left: Gangway from bulkhead to floating dock; Above right: Plan view of marina and ferry wave screen, both designed by MRCE.

Rikers Island Marina

Rikers Island, NY

Marine Engineering Services:

- Design of wave screen
- Design of floating dock
- Prepared contract documents for construction and permit applications to USACOE, NYSDEC and NYSDOS

Mueser Rutledge Consulting Engineers (MRCE) was retained under a design-build contract by the NYCDOC to design a marina for the NYCDOC Harbor Unit. Our services included the performance of a geotechnical subsurface investigation, bathymetric survey, determination of wind, wave and current loadings, development of marina layout to accommodate vessels used by Harbor Patrol, design of wave screen and anchor piles, design of floating docks and anchor piles, new gangway, new lighting and power receptacles.

The project required the evaluation of alternative marina layouts. MRCE prepared permit applications and obtained permits from the US Army Corps of Engineers, NYS Department of Environmental Conservation and NYS Department of State Coastal Zone Management. MRCE prepared construction documents and provided engineering support (review of shop drawings and field assistance) during construction.