

*"Pouring the Future, Preserving the Past"®*  
**QUINN CONSTRUCTION, INC.®**

**Resorts World Casino - FRP Concrete Reinforcement  
Jamaica, New York**

OWNER: [Genting New York, LLC](#)

ARCHITECT: [JCJ Architecture and Interior Designs, PC](#)

GENERAL CONTRACTOR: [Tutor Perini Corporation](#)

ENGINEER: [DeSimone Structural Engineers](#)

**PROJECT DESCRIPTION**

Quinn Construction, Inc. provided all labor, material and equipment to convert portions of the existing grandstands of the Aqueduct Race Track to accommodate the addition of a casino while maintaining the use of the racetrack facility and adhering to a critical time schedule.

**SCOPE OF WORK:**

- ◆ Fill concrete "DAPS" in existing beams prior to the installation of the FRP Concrete Reinforcing material, 2,400 SF
- ◆ Prepare the existing concrete to receive FRP Wrap System @ 6,400 SF, a total of 400 Wrap locations
- ◆ Prepare the existing concrete to receive FRP Strip System @ 1,522 LF, a total of 56 Strip locations

Project was completed in 2011

**CHALLENGES**

QCI was contracted to provide structural strengthening of existing floor slabs using the most economical and least time consuming means possible.

**SOLUTIONS**

QCI provided engineering design via a third party consultant and installed Carbon Fiber Reinforced Polymer (CFRP) reinforcing to increase the load capacity in order to provide the required design loads for the change in use of the structure.

