



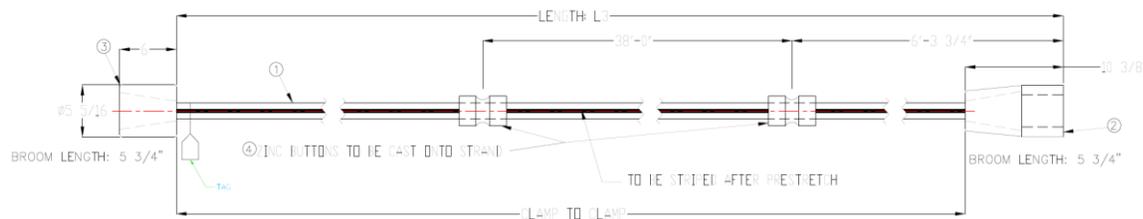
Bayonne Bridge – The Raising of the Bridge

WireCo WorldGroup has completed the supply of hanger assemblies for the Bayonne Bridge which spans from Bayonne, NJ to Staten Island, NY. The reason for the project is to accommodate increasingly larger vessels calling at the container ports located in New Jersey and Staten Island. The Port Authority looked at a number of options, including replacing the bridge entirely or constructing a tunnel in its place. But raising the roadway 64 feet within the confines of the classic arch structure, as shown below, was deemed the best approach. Koch-Skanska Construction contracted WireCo to supply the 152 Permanent Suspenders in addition to the 168 Temporary Suspenders for the project. All of the suspenders were produced with ASTM A586 Structural Strand and fabricated at the St. Joseph Fabrication Facility throughout 2015 and 2016. With a pier span length 1,675 feet (511 m) the crossing is instrumental in the greater NY area.



Photo – Bayonne Bridge deck replacement in progress with live traffic.

One of the unique aspects of the project was the requirement to maintain traffic at all times on the bridge. WireCo was required to supply the Temporary Suspenders that carried live traffic on the existing roadway while the new road deck was installed and tensioned. The Temporary Suspenders had an in house designed curved zinc button cast on to the surface of the strand that was required to dampen the vibration of the assemblies while in service.



Schematic – Temporary suspender fabrication.

WireCo WorldGroup has a long history of structural work with Koch-Skanska and the Port Authority of NYNJ on other projects throughout the New York area. WireCo diligently worked ahead of the schedule to ensure no disruptions with the onsite work. The Project work is coming to a conclusion with an anticipated completion in September 2017.