

maeg

ESTAIADO DE CURITIBA BRIDGE

BRIDGES AND VIADUCTS

- **CABLE-STAYED BRIDGE**

ESTAIADO DE CURITIBA BRIDGE

Location

Curitiba, Brazil

Client

Municipality of Curitiba

Contractor

Consortio CR Almeida - J Malucelli Contratante

Scope of work

Design, fabrication and installation of steel structures

Period of execution

2013

Weight

2.100 tons

Length

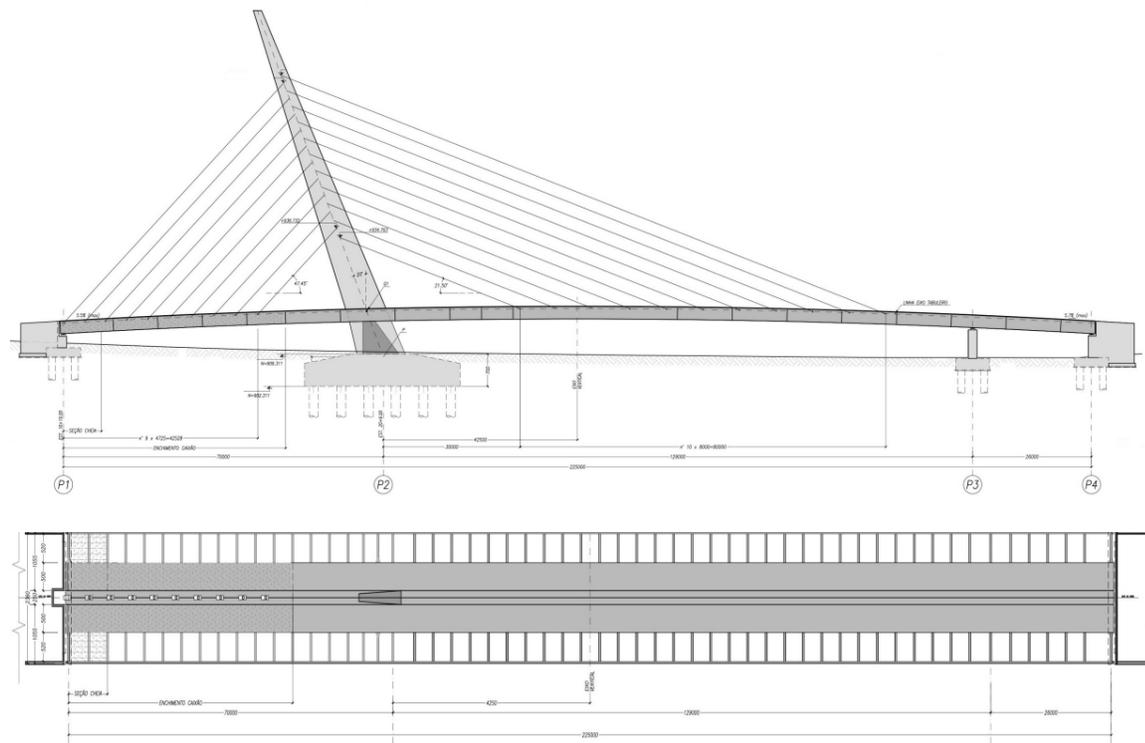
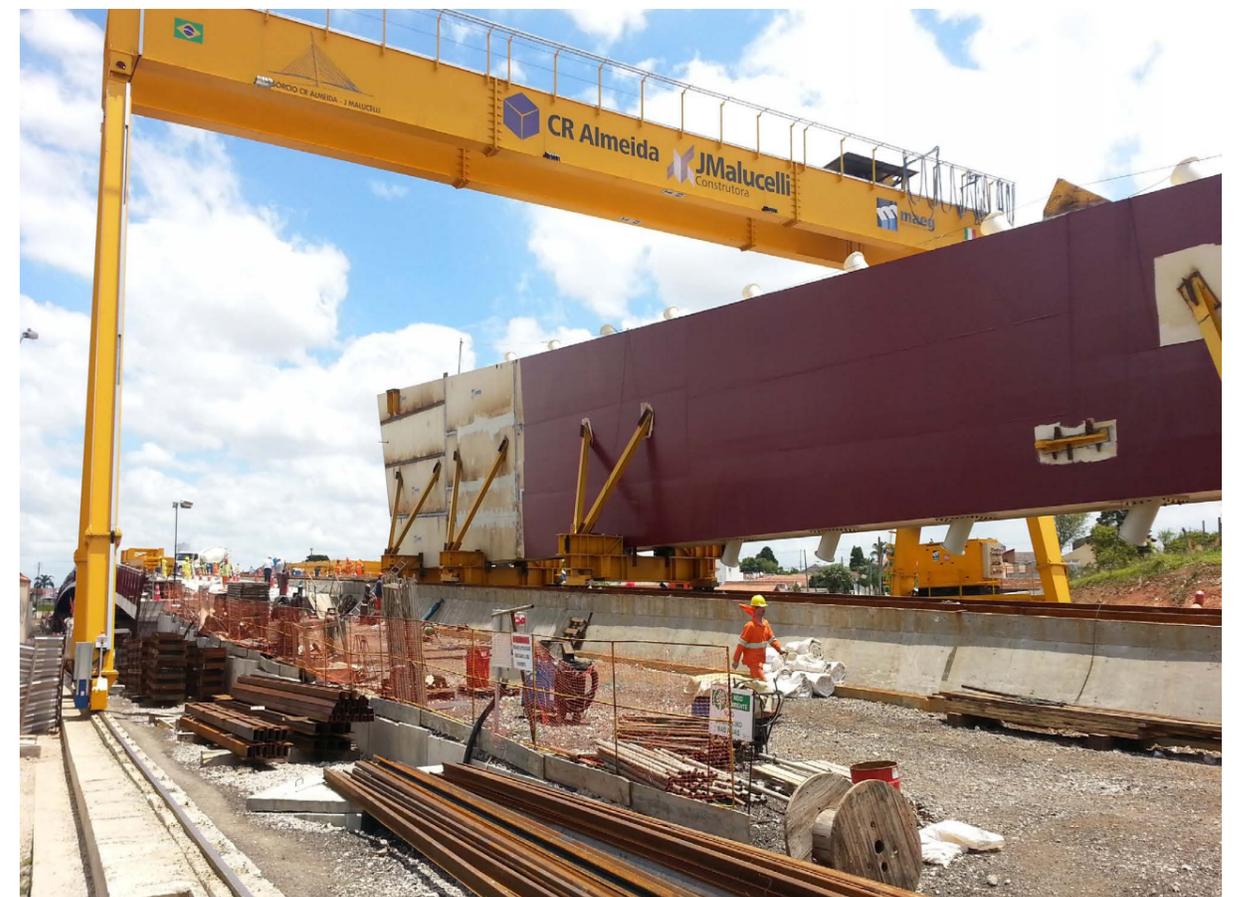
225 meters (70+129+26)

Conceived with a view to the FIFA World Cup in 2014 and the Olympic Games in 2016, the Estaiado de Curitiba Bridge facilitates the transit between the two principal roads of the city, connecting the airport to the capital, city of the state Paraná.

The structure of bridge consists of a 225 meters long deck with a weight of 1,600 tons supported, through 20 steel cables, by a 75 meters tall and 500 tons heavy trapezoidal antenna. From the installation point of view, it was necessary to find a solution taking in consideration very limited site spaces due to the high urban density of the area and the impossibility of interrupting the underlying road traffic. For this reason, it has been created a temporary track ballast area with a gantry crane to pre-assemble segments of the deck, pushed

then in position by sliding them on roller conveyors by means of jacks. Since there was no space for lifting cranes, a temporary lifting equipment was created to rotate the

antenna by using a system made of bracing and hydraulic jacks, completing the operation in just six hours.









Ideas
shape
the
World

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