

maeg

TOLERANCE BRIDGE

BRIDGES AND VIADUCTS

- PEDESTRIAN BRIDGES

TOLERANCE BRIDGE

Location

Dubai, United Arab Emirates

Client

Joint Venture Road & Transport Authority (RTA),
Meydan and Meraas

Contractor

Belhasa Six Construct LLC

Scope of work

Design, fabrication and installation of steel
structures

Period of execution

2016

Weight

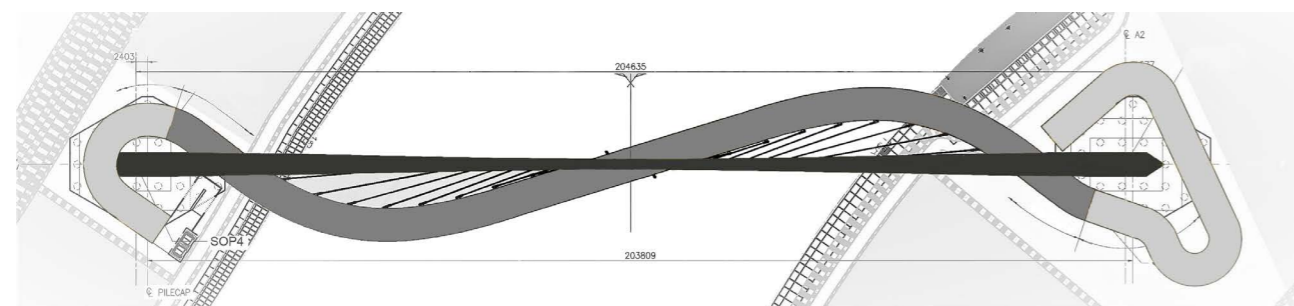
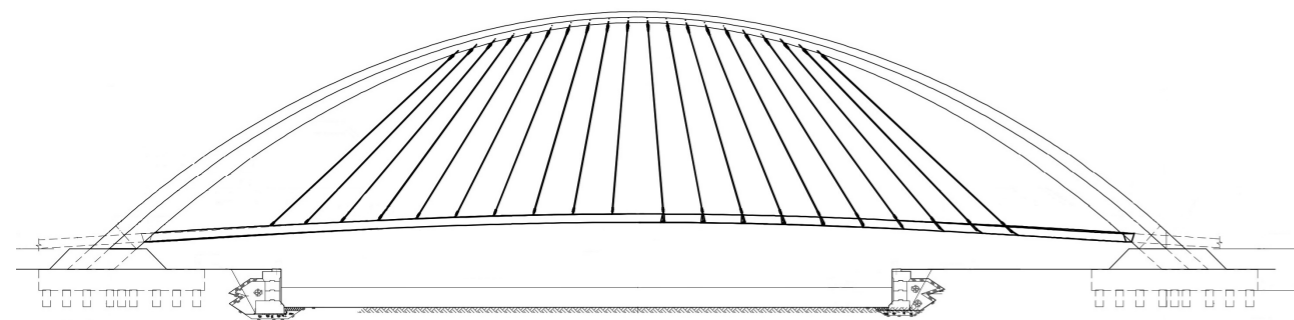
2.300 tons

Length

205 meters

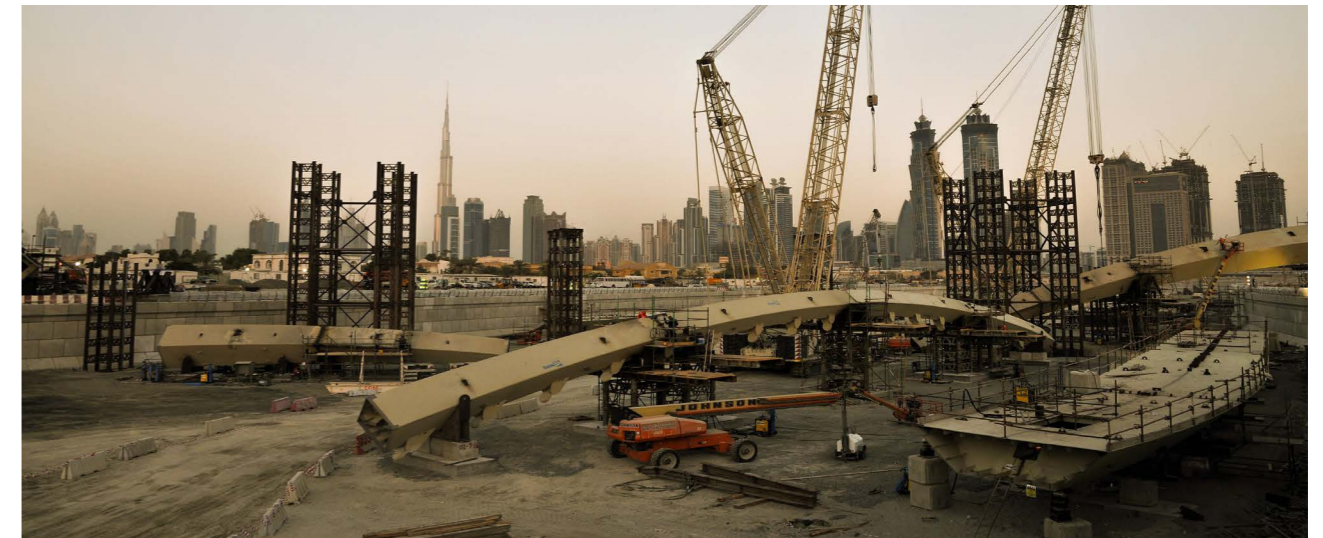
Second footbridge crossing the Dubai Water Canal, it has a 205 meters long white arch that reaches 50 meters of height. His Highness Sheikh Mohammed Bin Rashid Al Maktoum, Vice-President and Prime Minister of the United Arab Emirates and Governor of Dubai has renamed the project "Bridge of Tolerance" symbolizing the connection between the 200 cultures and nationalities present in the city.

This footbridge is characterized by a rhomboidal section arch with a largeness of 205 meters and a height of 50 meters, which has a cross-section of about 6 meters at the base that tapers up to 2.1 meters in the key section, giving a sense of lightness and simplicity. The arch was preassembled and welded on the ground in seven macro-segments



lifted then on the top of temporary towers, reaching at their tallest point 53 meters of height, by means of two 600-tons crawler cranes. The weight of the arch alone is 1.700 tons and, through 20 steel cables (for a total length of 858 meters), supports the S-shaped deck, 6.7 meters wide,

curling in two concrete ramps wrapped around the bases of the arch. The width of the free span, evoking a sense of absence of gravity as if the footbridge floated gently above the water, gives to the footbridge an impressive visual impact.









Ideas
shape
the
World

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