



Rehabilitation and Widening of the Bridge over the Guadalquivir River

Villa del Río, Spain / 2018-2025

Structural type
Characteristics
Owner
Client
Constructor
Scope

Early XX-Century metallic arch bridge
Bridge widening (12.8m)
Junta de Andalucía
Junta de Andalucía
UTE Magtel - Hierros Fuente Palmera
detailed design

The bridge dates back to the early 20th century and consists of five masonry arches and three riveted steel lattice spans, with a through-arch (deck-below) configuration. Prior to the intervention, the bridge showed functional and structural deficiencies, as it was subject to load ограничения and its width of barely 5 m only allowed one-way traffic.

The works designed by FHECOR made it possible to widen the deck to 12.8 m, allowing for one 3.50 m lane in each direction. To achieve this, each of the steel spans was dismantled, strengthened, and widened on the ground, and a temporary bridge was installed to maintain traffic flow during the construction works.



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