



Viaduct over Jauto River

Óscar Ramón RAMOS
Head of Structures Division
APIA XXI-Louis Berger DCE
Santander, Spain
oramos@apiaxxi.es

José M. MARTÍNEZ
MSc. Civil Engineer
APIA XXI-Louis Berger DCE
Kuwait City, Kuwait
j.martinez@nasserroad.com

Jorge DE VENA
MSc. Civil Engineer
APIA XXI-Louis Berger DCE
Santander, Spain
jdevena@apiaxxi.es

Marcos J. PANTALEÓN
President
APIA XXI-Louis Berger DCE
Santander, Spain
mjpanta@apiaxxi.es

Summary

The bridge over the river Jauto, located in the province of Almería, is part of the railway tract between Los Gallardos and Sorbas, which belongs to the Mediterranean High Velocity Corridor. This 120 m long bridge is formed by a reinforced concrete arch with 6 pairs of piers that support the set of U-beams. Such structural solution, providing high aesthetic value, has been chosen due to the proximity of the AP-7, N-340 roads and Alfaix village.

Keywords: Arch, precast beam, fix point, high velocity, allowable length

1. Bridge description

1.1 General description

The bridge over the river Jauto is a part of Los Gallardos – Sorbas railway, which belongs to the Mediterranean High Velocity Corridor. The viaduct has a length of 120 meters distributed into eight 15 meter spans. The main structural element is formed by a 90 meters span arch.



Fig. 1: Aerial view of the bridge (centre)