

## Zarzuela Junction Footbridge

The Zarzuela Junction is located on the M-40 ring-road, over the El Pardo motorway and the River Manzanares, connecting the M-40 and M-30 ring-road motorways with the El Pardo motorway. There are 2,247.20 meters of viaducts and bridges and 32,760 m<sup>2</sup> of structures, concentrated in a very small area. The pedestrian footbridge described had to be perfectly integrated with the existing structures.

The adopted solution is a horseshoe-shaped footbridge. It has nine spans (10.00 + 15.00 + 15.00 + 19.90 + 29.80 + 19.90 + 15.00 + 15.00 + 10.00 m long). On each side, the first three spans and 4/5 of the fourth one are made of reinforced concrete. The last 1/5 of the fourth span and the main span are pre-stressed. The main span is curved and is variable in depth.



Spain /1996  
Project data

Structural type:  
Pre-stressed reinforced concrete deck  
Location:  
M-40 ring-road motorway  
Zarzuela Junction. Madrid  
Opening date:  
July 1996  
Proprietor:  
Ministry of Public Works  
Construction:  
UTE OCP - AUXINI  
Scope of Works:  
Construction Project