

Puerta de Hierro Viaduct

The Puerta de Hierro bridge consists of two parallel viaducts, one 413.17m long and the other 265.17m, which begin on the N-VI motorway, they pass over the M-30 ring-road motorway and even over the N-VI itself. The standard span length is approximately 25.00m with a single maximum 40.0m span which crosses the N-VI motorway. The deck has a constant 1.25m depth but is deepened at the supports of the main span.

The pier shafts are either rectangular or conically tapered, depending on their position.

The two viaducts were built placing the steel boxes, section by section, with the help of cranes. The upper concrete slab was built with a receiving slab on which reinforcement was placed and subsequently concrete was cast on top.



Spain /2000 Project data

Structural Type:
Multi-span composite box bridge
Location:
Puerta de Hierro. Madrid
Opening date:
July 2000.
Proprietor:
Ministry of Public Works.
Construction:
ACS Proyectos Obras y Construcciones
Scope of Works:
Construction Project