



María de Molina Tunnel (junctions with A2 highway)

Madrid, Spain / 2004

Structural type
Characteristics
Owner
Client
Scope

tunnel
2.271m long, the longest urban tunnel in Spain at the time of construction
Ayuntamiento de Madrid
Ayuntamiento de Madrid. Premios de Urbanismo, Arquitectura y Obra Pública. Edición XVIII. Premios 2003.
detailed design and construction support



María de Molina Tunnel joins Paseo de la Castellana and Velázquez Street with the N-II highway (Madrid - Barcelona) is the largest municipal underground work in Spain. The tunnel is 2171 meters long and it will absorb traffic of 30000 vehicles going out every day.

The initial part of the tunnel has been designed as false tunnels made with foundation walls and slabs. The concrete has been cast over the ground and the tunnel has been excavated afterwards in order to minimize the effect of the work on Madrid traffic. Once a sufficient depth has been reached, two different construction systems have been proposed, depending on the conditions the tunnel finds in each case.

The project presents some singular points in which the solutions adopted are structurally extraordinary.



C/ Barquillo 23, 2º | 28004 Madrid | España
T. (+34) 917 014 460 | F. (+34) 915 327 864
www.fhecor.com | fhecor@fhecor.es