



# **BRIDGES AND VIADUCTS**



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# Monteporreiro Bridge, Pontevedra, Spain SERCOYSA- TRAIMA





### Bridge in Santillana del Mar, Cantabria, Spain SIEC





### Cámara de Lobos Expressway, Madeira, Portugal SOMAGUE-MOTA ENGIL



Example of a combination of different solutions for frame formwork system. Depending on the span, Megaprop towers support RMDK standard profiles or R700 trusses. On top of the beams or trusses, formwork modules using Superslim steel beams and T200 timber beams create the shape of a box girder deck with variable longitudinal and transverse slopes. A double bottom was used in order to reproduce the haunch of the underside



Barcelona-France HSRL, Borrasa-Figueres-Girona section, Spain SACYR-CAVOSA-SCRINSER





### Molino Platero Bridge, Cádiz, Spain ALDESA-PEREZ JIMENEZ





### Bridge over the Guadalfeo River, Granada, Spain FCC



Formwork, Kwistage curved shoring system with R700 lattice girders for spans of up to 40 m, crossing the Guadalfeo River with a single central support on a temporary pier bracket.



#### Viaduct Trapagarán, South Metropolitan Bypass, Spain ADOLFO SOBRINO-CYCASA- FONORTE-URSSA



Example of a combination of different solutions for an arcade support system. With Megaprop towers that, depending on the span, support RMDK standard profiles or R700 latticework, to support the variable transition of 4 box section panels, using a boat structure with Superslim and T200 beams for the formwork.



### Motorway B-40, tr. Olesa de Montserrat-Viladecavalls ACCIONA-COPISA-COMSA



Shoring and formwork design for the construction of a variable depth concrete structure. Shoring by means of a mixed portico system of R700 profiles and trusses on Megaprop high capacity towers. Kwikstage shoring system on support platform to generate variable deck depth. On top of it, modular formwork with boat system with Superslim primary beams and T-200 secondary beams.



### Cable-stayed bridge, Ronda Sur de Talavera, Spain SACYR-AGLOMANCHA-J.BARCENAS



Innovative support system with Megaprop "W" props that carries the load of the full width of the deck (36m) to supports centered on the foundations of the 2 central temporary piers, thus minimizing the need for foundations in the bed of the Tagus River.



### Cerceda Viaduct, Atlantic Axis Train, Spain FERROVIAL



Viaduct with box section with spans of more than 40m executed with R700 trusses reinforced with supports on foundations by means of Megaprop towers, to cover the entire span without intermediate supports. On this support system, a double-bottom formwork boat structure has been designed, which allows the adjustment of the camber and superelevations, with a structure based on Superslim beams and accessories and T-200 secondary beams.



### Fondón Viaduct, Motorway of Salnés, Spain PUENTES - COPASA





### Viaduct on the Gernika Bypass, Spain CONS. OLABARRI -ALBATROS





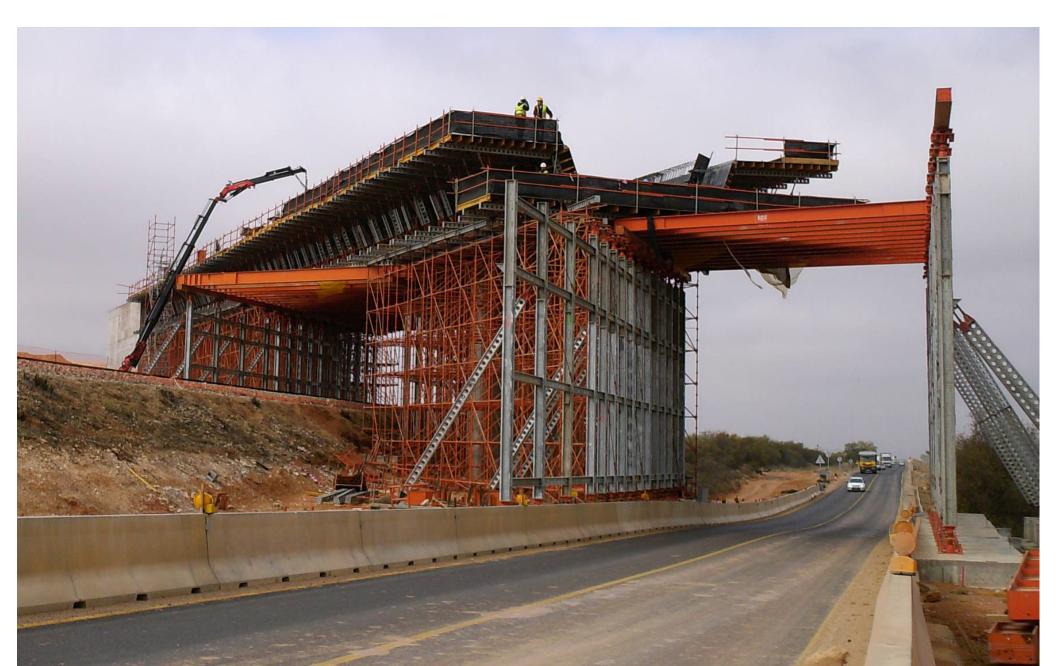
# Viaduct on the Gernika Bypass, Spain CONS. OLABARRI -ALBATROS





Viaduct over the Aranjuez-Cuenca Railway, Spain CONS. SAN JOSÉ- ARCIÓN





### Viaduct over Majuelos Stream, A-12 Motorway, Spain TECONSA- ARASCÓN





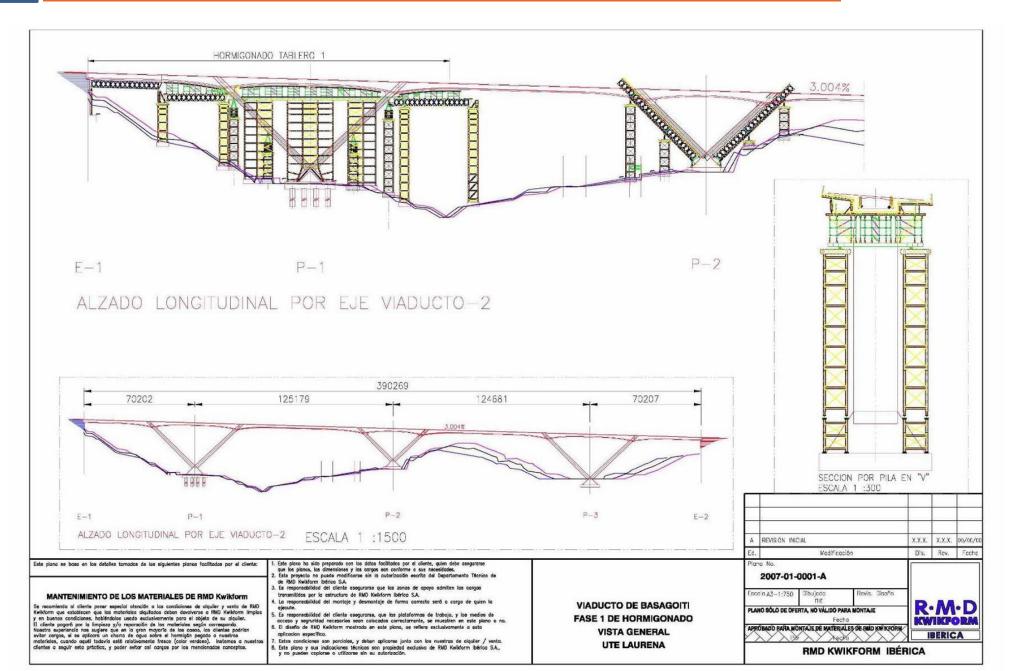
### León-Asturias HSRL, La Robla-Pajares Tunnels section, Spain ACCIONA







#### Basagoiti Viaduct, Vitoria-Éibar Motorway, Spain MOYUA- DRAGADOS- OBRAS SUBT.- GEOTUNEL



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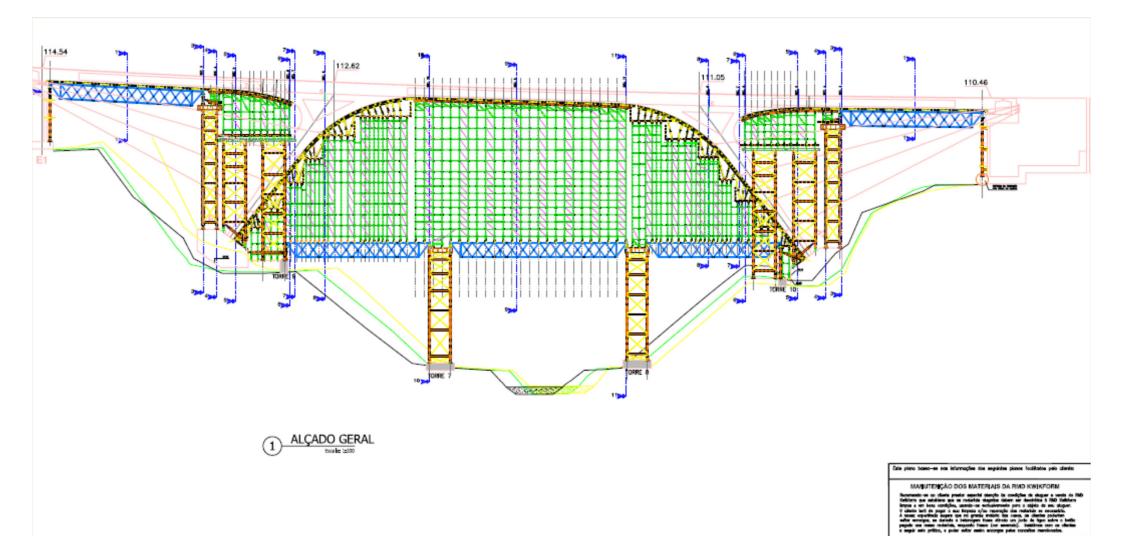


V-shaped pier formwork made up of Superslim and T200 beams. Shoring made up of R700 trusses and Megaprop towers.



### Bridge over the River Homem, Braga, Portugal SÁ MACHADO



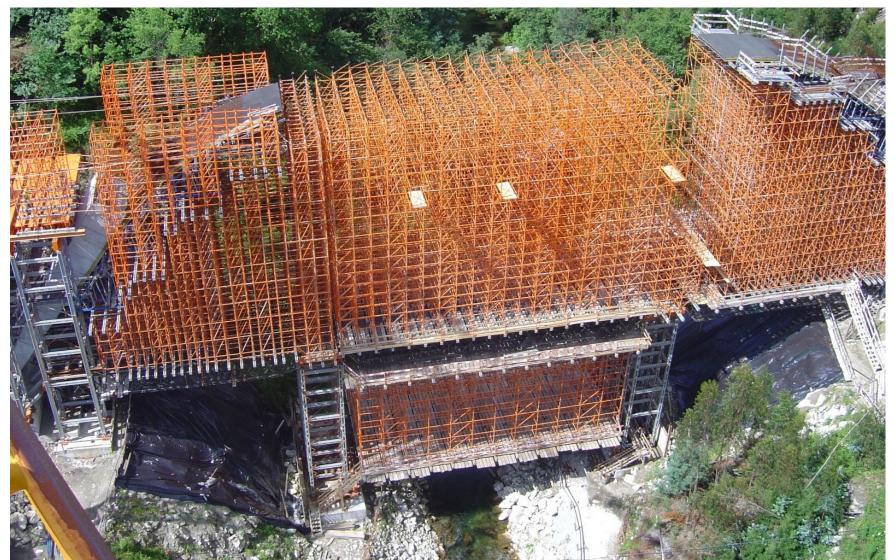


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### Bridge over the River Homem, Braga, Portugal SÁ MACHADO



Mixed frame shoring system with H33 profiles and trusses supported on Megaprop high capacity towers, serving as a support platform for Kwikstage curved formwork on which the modular formwork system of Superslim primary beam and T200 secondary beam rests to support the phenolic lining and give shape to the piles and deck of the concrete structure.



# Mogán Viaduct, Gran Canaria, Spain FCC- CORSAN CORVIAM- ETRECAN





### Third Millennium Bridge, Expo Zaragoza Spain DRAGADOS

Structure of shoring towers and Megaprop porticoed formwork support system made up of Superslim and T200 beams, for the construction of the arch of the Third Millennium Bridge, which served as the entrance to the Universal Expo in Zaragoza. With a length of 246m, it is the World Record for a concrete cable-stayed arch bridge.



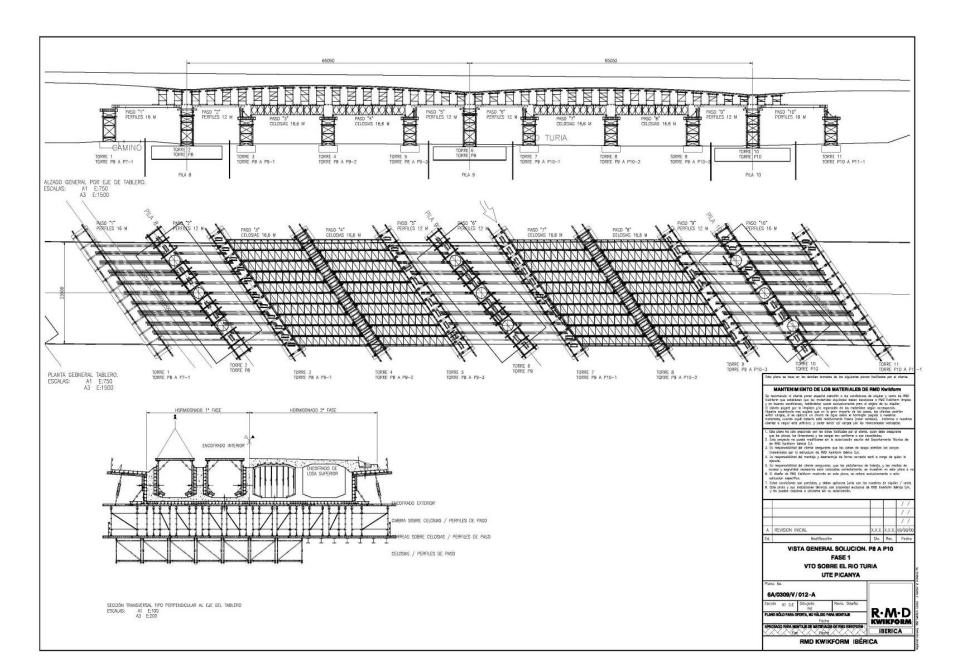
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### Viaduct over the River Turia, Picanya-Valencia CHM- RUBAU





### Viaduct over the River Turia, Picanya-Valencia CHM- RUBAU



Access viaduct to the high-speed railway line to Valencia. This is a viaduct over a riverbed, resolved with a mixed system of R700 lattice trusses and profiles on Megaprop towers, for support of quadruple box formwork for a haunched deck.



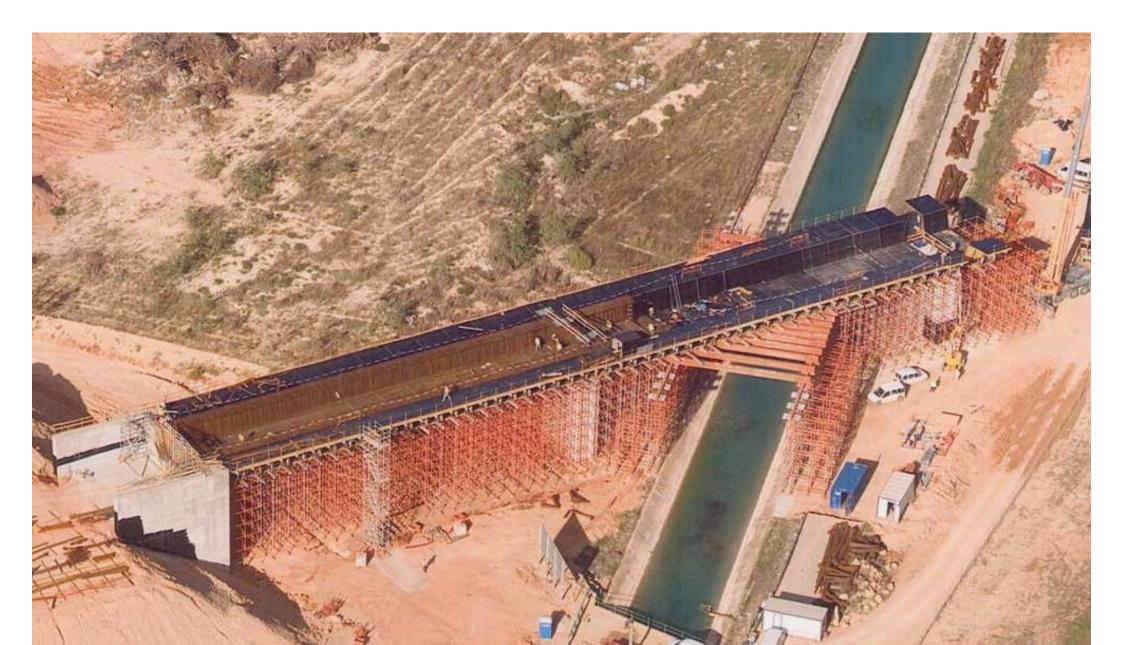
### Frejulfe Viaduct, Autov. A8 del Cantábrico, Spain BEGAR- BASCUAS





#### Vto. Barranco de Torrent, Train Picanya-Valencia, Spain COMSA- CYCASA- VERA





#### Viaduct de Ferreras, motorway A8 del Cantábrico, Spain ALDESA-TABLEROS Y PUENTES- DICAMINOS



Viaduct with lightened section built with R700 trusses with cantilever supports on piers to cover the entire span without intermediate supports. A double bottom formwork is placed on the designed support system for adjusting the buttresses and superelevations, with a structure based on Superslim beams and accessories and T-200 secondary beams.



#### Bridge CV-371 de Manises a Paterna, Spain ROVER ALCISA





### Minglanilla-Iniesta Viaducts, Cuenca, Spain SANDO - CONACÓN





### Viaduct over Doña Aleja stream, Cuenca, Spain COPROSA





### Vts. Mora de Rubielos and Barranco de los Judíos, Teruel, Spain CYOPSA- SISOCIA- AZVI





### Vto. V2 2º Cinturón of S. Sebastián, Spain ALTUNA Y URÍA- AMENABAR- GALDIANO- MOYÚA





### Bridge over the Tormes River, Salamanca, Spain FCC- GECOCSA





# Bridge over the Ozama River, Dominican Republic DRAGADOS- FCC- COCIMAR

Deck support beam on pylons with Megatruss truss and formwork with Superslim beams and timber beams.



### Feve Ferrol and Xubia Viaduct, A Coruña, Spain COPASA





### Viaduct da Terca II Machino Faial, Portugal MOTA ENGIL





### Viaduct Castro De Aire, Portugal GABRIEL COUTO





### Arch bridge over the River Nervión, Etxebarri, Spain BALZOLA CONSTRUCTIONS.





# Bridge over Nalon River, Sotrondio, Spain O.C.A. - FERROVIAL



