



A4 TURIN-VENICE MOTORWAY

Bergamo-Brescia section, Widening to 6 lanes, 1987-1989

PROJECT CHARACTERISTICS

Works: Widening from 4 to 6 lanes of a motorway open to traffic including the construction of 37 flyovers, 5 underpasses, 189 concrete structures, the widening of 5 bridges, (2 arch and 3 prestressed), of 43 existing underpasses and the demolition of 38 flyovers. Construction of a new steel deck bridge 276 m long.

Dimensions:

- overall length: 41,5 Km
- cross width: from existing 24 to 33 m

Project Costs:

- 132 million US \$



PROFESSIONAL SERVICES PERFORMED

Construction supervision, construction drawings review, quality control and final acceptance tests, contract administration, co-ordination of 9 contractors with a staff resident on site, of six engineers and head office support.

The widening works on the Italian A4 motorway from Bergamo to Brescia started in the winter of 1987 and were completed on March 1989.

The widening works have been carried out by 9 Contractors under an average traffic of 100 000 vehicles/day. A total of 37 two-span, steel-concrete flyovers were built.

An additional three-span flyover was built with prestressed concrete bays over an existing railway while 2 one-span flyovers were built over secondary railways.

The largest underpasses were built with prestressed beams up to 40 m long, the maximum length transportable on road.

The steel bridge on the Oglio river has a central span 137 m long.

