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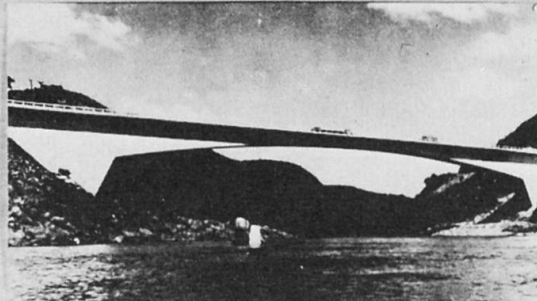
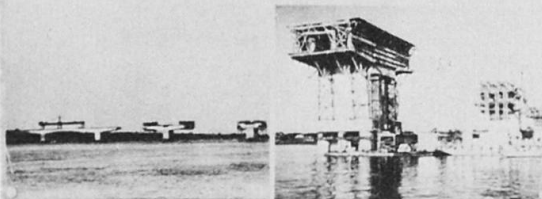
SOME IMPORTANT BRIDGES BUILT BY SOBRENCO

Designer: Sergio Marques de Souza - Brazil



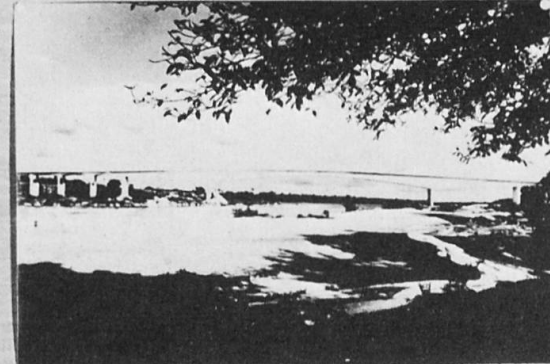
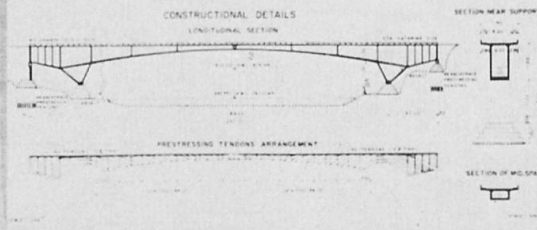
THE PROFESSOR MAURÍCIO JOPPERT BRIDGE

This highway bridge, which spans the Parana River, connects the states of São Paulo and Mato Grosso. Its width is 12.70m and its total length is 2,550.00m. It consists of two 15.00m abutments, thirty-five 45.00m normal spans and nine composed spans as follows: two of 78.75m and seven of 112.50m. These composed spans are the association of four simply supported precast prestressed concrete beams of 45.00m in length, which form the normal spans, and double cantilevered prestressed concrete box girders built by the cantilever cast in place method.



THE MARSHALL JUAREZ TÁVORA BRIDGE

This highway bridge, connecting the states of Santa Catarina and Rio Grande do Sul, spans the Pelotas River with a total length of 250.00m, composed of a main span of 189.00m, two adjacent spans of 30.00m and two cantilevers 0.50m long. The deck is 11.60m wide. The main span is formed by a prestressed concrete box girder, and was made in 1966 using the cantilever method. It is still the Brazilian record span in prestressed concrete straight beam.



THE PRESIDENT JUSCELINO KUBITSCHEK BRIDGE

This highway bridge, which spans the Tocantins River, connects the states of Goiás and Maranhão. Its width is 10.00m and its total length is 532.70m. It consists of two reinforced concrete approach viaducts of 102.00m and 174.70m in length on Goiás and Maranhão sides respectively, and a prestressed concrete segment 256.00m long. This segment is composed of a 140.00m main span, two 53.00m adjacent spans and two 5.00m cantilevers. The bridge construction was completed in 1961 and for the first time in Brazil was used the cantilever cast in place method to build a prestressed concrete straight beam, whose main span was a world record on this occasion. The cross section consists of a double box girder whose depth varies from 3.40m in mid-span to 8.00m near the main supports. The columns are of reinforced concrete, as well as the foundation blocks. The whole work was accomplished in 9 months.