



## REHABILITATION OF EXISTING BRIDGES OVER THE RIVERS SAN PEDRO, SANTA CLARA E COBRE

INSPECTION AND CHARACTERIZATION TESTS OF EXISTING STRUCTURES; BASIC AND DETAILED PROJECT FOR REHABILITATION AND REINFORCEMENT; TECHNICAL ASSISTANCE DURING CONSTRUCTION.



**Client:** Gobierno de la República de Panamá (Government of the Republic of Panama); Odebrecht Infraestructura

**Location:** Carretera Panamericana (Interamerican Highway) - Panamá

**Design date:** 2014 - 2014

**Construction date:** 2015 - 2015

**Services:** Inspection and characterization tests of existing structures; Basic and Detailed Project for rehabilitation and reinforcement; Technical Assistance during construction.

**Construction:** CNO - Constructora Norberto Odebrecht de Panamá

### Summary:

Structural Inspection and Structural Reinforcement Design of three existing reinforced concrete bridges dated from the 1960's with mixed steel and concrete decks, with maximum spans of 31m.

The intervention consisted of onsite inspection, rebar detection and materials testing, detailed and global structural evaluation. The reinforcement design included strengthening of concrete girders with carbon fibre laminates, repair and reconstruction of damaged parts, repair and replacement of support unit and injection of cracks in the concrete.

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