

Reference Project

Bridge Construction

Build & Design: 93m Suspension Bridge across the Tukituki River

Location Waipukarau Township, Hawkes Bay

Date December 2017

Client Hawkes Bay Regional Council

Waipukarau is a small township situated on the Tukituki River. The locals, with help from Hawkes Bay Regional Council, crowd-funded and built a cycle trail around the area. Crossing the Tukituki River is one of the highlights of the trail.

Abseil Access were asked to submit a bridge design that could cross the river and join the cycle trails together. The final design was a 93m deck supported by 9m high towers 63m apart. The deck width of 1.2m allows bikes to pass one another. The load capacity of the bridge is 10 persons.

The fly-through feature of the deck, as it passes through the towers, allows for the towers to be closer together. The tower pads had additional 250SED piles driven to the refusal in the river sand. 30m³ of concrete were poured to ensure solid foundations for the anchor blocks and the tower pads. The bridge was load tested to 3 tons on completion.

The project had full support from the locals who regularly visited the construction site and attended the grand opening. The cycle trail sees regular users and commuters from all around the area.

