

BRIDGE 18 TOOWOOMBA SECOND RANGE CROSSING REPAIRS

PROJECT SUMMARY

Client: Nexus Delivery

Location: Bridge 18 Toowoomba
Second Range Crossing

Duration: 2 weeks

Value: \$ 21,000

Major Challenges Overcome:

- Access



Bridge 18 Toowoomba Second Range Crossing

The damaged areas were sawcut and broken out, and the affected surfaces were prepared with mechanical key insertions. The deck units were reformed with structural repair mortar. The form boards were left to cure over the 7-day minimum period. Once cured, the deck units were finished off with a render coat.

Completed Works

The repairs began on 10th May 2018 and were completed on 18th May.

The following work was successfully carried out:

Three structural deck units were repaired using a form-and-pour method, with Renderoc LA55 and rendered with Renderoc FC.

The Project

Bridge 18 is one of 24 bridges constructed as part of the Toowoomba Bypass (Second Range Crossing).

Two bridge deck units were damaged during the installation of Bridge 18. In addition, an excavator struck and damaged the underside of a third deck unit.

DYNACIV was engaged to carry out the necessary repairs to each of the damaged deck units.

Program

<u>Repair 1</u>	<u>Repair 2</u>
	
Damaged Deck Units	
	
Damaged Deck Units prepped and 6mm stainless steel pins installed to provide a mechanical key.	
	
Completed Concrete Repairs (Renderoc LA55)	