

Project Details

PROJECT NAME	Corella River Bridge – Stress Bar Replacement
PROJECT LOCATION	Cloncurry, QLD
CASA ROLE	Subcontractor
CLIENT	Roadtek
CONTRACT VALUE	\$476,000.00
PROJECT COMPLETION DATE	June 2012
CONSTRUCTION MANAGER	Peter Casa
PROJECT MANAGER/CONTRACT ADMINISTRATOR	Wendy Salter
SITE SUPERVISOR/SITE MANAGER	Michael Major

Corella River Bridge is approximately 40 years old and subjected to seasonal flooding. A structural audit by Main Roads, determined that strengthening work was required to ensure the ongoing integrity of the bridge and safety of heavy traffic servicing the mines and communities North of Cloncurry.

CASA’s challenge was to remove 48 x exiting bars (7.5m long) from grouted ducts without over-stressing or creating cracks to the surrounding concrete structure. Following de-tensioning using a combination of hydraulic jacking and intermittent/controlled jack-hammering, CASA personnel had only 24hrs to replace new bars and re-stress to specified tension. Working from EWPs, only one bar from each of the 12 bays could be removed at a time, requiring careful programming and coordination on site. Old ducts were core-drilled and flushed, taking care with environmental considerations. New bars were grouted using Main-Roads approved products.

