

BIBBAWARRA

low level bridge crossing

Client: Main Roads Western Australia

Location: Carnarvon, WA

Value: \$3.45 million

Completion Date: July 2005

At 456.26m long, Main Roads Bridge 6191 is the longest low-level crossing bridge in regional Western Australia and the second longest in the state behind the Mount Henry Bridge at 659.75m.

The bridge was constructed to provide an alternative access for plantation vehicles, local traffic and tourist traffic to north of the Gascoyne River.

The bridge superstructure comprised 38 spans of precast deck beams and precast pile headstocks all founded on precast hollow-spun bored type CFA pile. In situ concrete works included concrete in fills to pile headstocks and approach slabs to each abutment.

Road works comprised cut-to-fill earthworks, cement stabilised granular pavements and a two-coat bituminous seal, significant rock protection to bridge abutments, kerbing to road approaches and the installation of depth markers, guideposts and warning signs.



Cement stabilisation of the
bridge approaches





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special features



- The bridge was constructed with proprietary precast RoclaM-Lock system
- Nominal spans of seven metres to 12m
- The precast hollow spun piles were driven by an NCK hammer rig with a Kobe 35 diesel hammer
- All pre-drilled augered holes were fully supported from collapse by a bentonite slurry mixture
- A CM48 piling rig was used for pre-drilling operations
- Alternative pile method of both augering and driving the precast hollow spun piles proved to be effective and significantly reduced the overall impact to the program from the original specified method of piling.

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