

COLLIE RIVER

timber bridge removal and boardwalk refurbishment



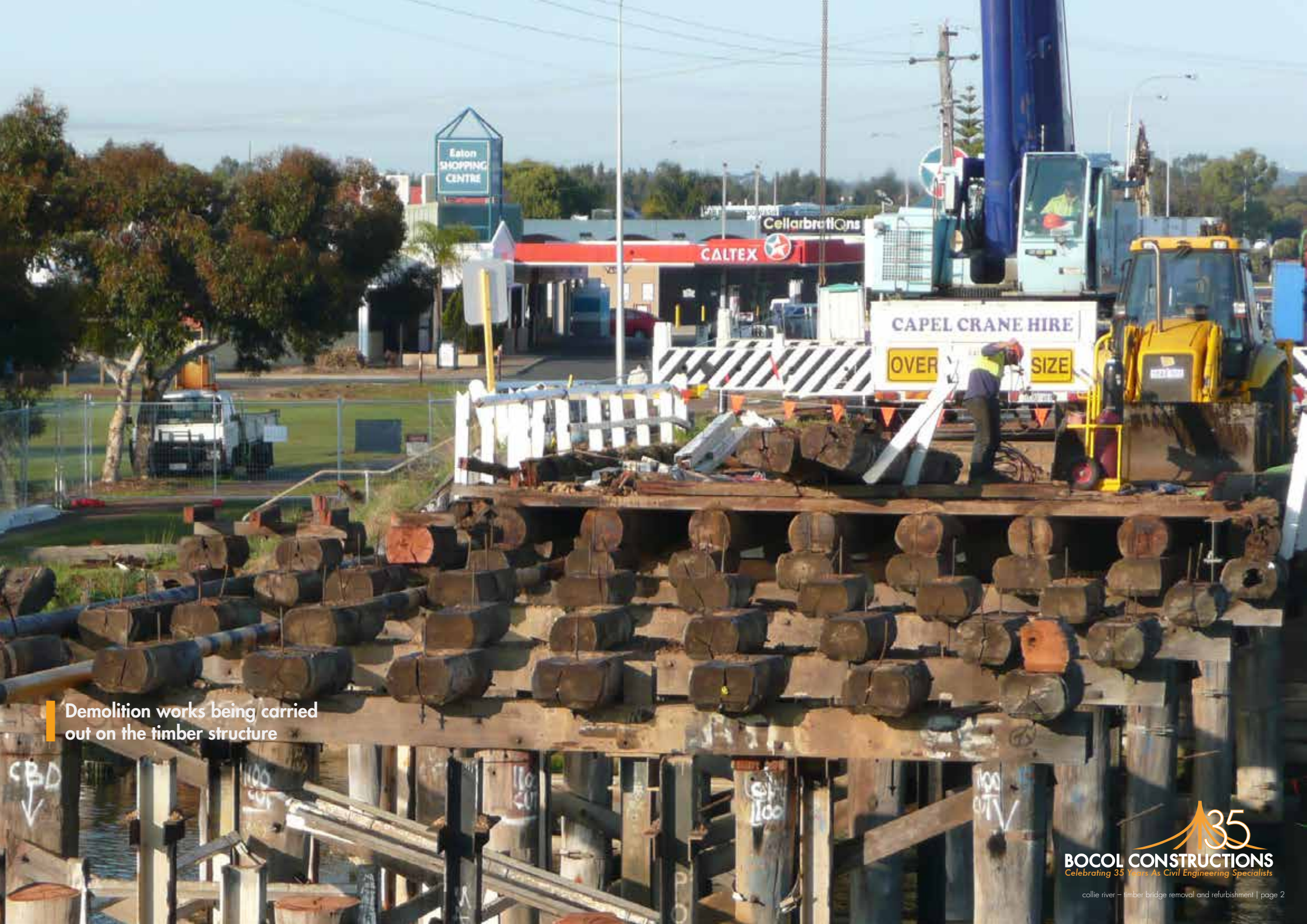
Client: Southern Road Services
Location: Collie, WA
Value: \$700,000
Completion Date: September 2010

This project comprised the removal of the existing timber bridge spanning the Collie River, along with the refurbishment of a timber boardwalk which ran underneath the bridge structure. The demolition of the bridge built adjacent, making the timber bridge redundant.

In the past, the timber bridge had been strengthened using steel members driven into the river bed, and had further modifications made to it carry gas services across the river. This required specialist demolition techniques including the use of divers.

The timber walkway was originally used as a fishing platform accessible from the bridge through a set of stairs. Due to the demolition of the bridge structure, the timber boardwalk was extended to be accessible from the river banks to be used as a jetty. Pile protection works were carried out to the remaining timber piles along with preservation treatment to the timber decking on the boardwalk.





Demolition works being carried out on the timber structure

special features

- Works were carried out over a navigational waterway requiring Notices to Mariners to be issued to the public in liaison with the Department of Transport
- Demolition works on the deck involved the removal of asphalt, timber guardrail, timber decking and a disconnected steel gas pipe
- Some demolition works were conducted off a barge
- Skilled underwater divers were used to cut over 60 RSJ piles at riverbed level prior to removal
- Timber piles were removed from the river bed using a crane
- Recovered timber was transferred to Main Roads' depot for reuse
- Part of the timber bridge left intact to be used as a jetty
- Timber decking on the jetty composed of new jarrah wood, treated to withstand the local climate
- The timber retaining wall on the bridge approaches were lowered to give access to the jetty structure.



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