

GOSNELLS

principal shared path and
bridge over canning river



Client: Main Roads Western Australia

Location: Gosnells, WA

Value: \$2.6 million

Completion Date: July 2005

The works comprised the construction of Main Roads Bridge 9239 over the Canning River and a 2km long principal shared path (PSP) from Fremantle Road to Albany Highway.

Due to the works being located within the Public Transport Authority (PTA) electrified rail reserve and in the vicinity of the Canning River, a Rail Safety Management Plan and an Environmental Management Plan were required throughout the project.

Ancillary works included drainage, lighting, fencing, linemarking, landscaping and signage.



Piling works being carried out adjacent to the Canning River



special features

- The 100m long bridge comprises five spans of precast beams with a cast-in-situ deck, simply supported on cast-in-situ piers, and founded on cast-in-situ pile caps and 350mm square precast driven piles
- The PSP consists of granular pavements and a coloured asphalt wearing course
- The precast piles were driven by a CM48 diesel hammer fixed with pile leaders to a 50 tonne crawler crane. Access for the piling rig and construction plant and equipment was established by the construction of a temporary earth bund causeway
- Environmental considerations included control measures for acid sulphate soils in respect to removal and disposal during excavation and potential impacts on durability for the precast concrete piles
- To overcome unforeseen ground conditions during piling, Bocol and the client's designers (BG&E) designed a pile extension with a sacrificial helmet and pile follower, and purpose-fabricated end plate and guide plates
- Temporary works included sheet piling to enable pile cap construction and to provide a safe retained access for construction personnel.



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