

CUNNINGHAM STREET DRAINAGE UPGRADE



LOCATION

Cunningham Street,
Crystal Brook

CONTRACT VALUE

\$413,250

CONSTRUCTION PERIOD

July 2012 - September
2012

FORM OF CONTRACT

AS4000-1997

CLIENT

Port Pirie Regional
Council

PROJECT SUPERVISOR:

Trevor Jarred

REFEREE

Kathryn Johnson
Port Pirie Regional
Council
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DESCRIPTION OF PROJECT:

Crystal Brook has suffered significant road flooding on the main street during high rainfall events. Cunningham St is a DPTI road and B Double Route, the flooding also affects transport in the area. Large diameter RCP and Box Culvert was installed and the road reconstructed where excavation occurred.

PROJECT CHALLENGES:

1. The road had to be maintained open to two way traffic at all times including when the lateral crossings were completed, detours were not able to be put in place as they would not have been sufficient for the b double traffic. This required careful staging of works and complex traffic management to ensure minimal disruption to through traffic.
2. Works were completed during the summer months but rain events still occurred so careful water and program management was in place to minimise risks.
3. A significant number of water main doglegs were required so T & J Constructions worked closely with SA Water to align project work and traffic management to minimise disruption.

KEY CONSTRUCTION PROCESSES:

The Cunningham Stormwater Project involved extensive traffic, significant on grade service installation (stormwater) and complex stakeholder management. The road is a B Double Route and had to be maintained open to two way traffic at all times. To Manage this T & J Constructions would dig lay and backfill each day to ensure excavations were not left open at nights. The only excavation left open at night was under the excavator and its compound so that digging could start immediately the next day to maintain productivity. Works had to be coordinated between the Port Pirie Regional Council , ARTC (working in the rail corridor), DPTI (Traffic Management Plan Approvals and modification to DPTI specification approval) as well as local stakeholders such as Crouch Rural and the Police Station who were located on the roads excavated.

Works involved in the project include;

- Minor works including construction, reconstruction and widening
- Earth Work Associated with bridge abutments, including structural fill and rock protection
- Service Adjustments
- Medium Size Culvert Works including precast components
- Non-complex service relocation
- At grade intersection and channelisation works
- Granular and or Asphalt Pavements Pavement Construction
- Cross and Longitudinal Drainage
- Moderately complex worksite traffic management
- Pavement construction using modified materials
- Moderately complex to complex community/stakeholder management