

CONSTRUCTION OF CARAVONICA DN800 TRUNK WATER MAIN - CONTRACT No. 75427



Unit 5, 2 James Street
North Cairns, QLD 4870

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fgf Developments were appointed Principal Contractor on this project which involved the installation and testing of a DN800 mild steel cement lined (MSCL) fusion bonded medium density polyethylene (FBMDPE) coated trunk water main servicing the Northern Beaches along the Cairns Western Arterial Road (Kamerunga Road).

The main components of work included:

- Site establishment / disestablishment
- Survey set-out including coordination of future connection points with CRC
- Location and protection of all conflicting underground services
- Cutting or trimming of vegetation including removal of all material as outlined in this Contract
- Design, construction, maintenance, monitoring and removal on completion of the Contract of all temporary works, including all shoring for excavations, protection and temporary diversion of existing services
- Site clearing as required
- Construction of the new main including supply of all materials and labour necessary for the completion of the works, inclusive of excavation, laying, jointing, bedding, backfilling and testing, excluding Principal Supplied Item
- Installation of a reinforced concrete enveloping pipe underneath the Western Arterial Road (Kamerunga Road) by means of trenchless construction including review and verification of design
- Relocation of existing DN225 AC sewage rising main including temporary diversion works, cut-ins and coordination with Council

Location:

Cairns

Client:

Cairns Regional Council

Civil Engineering

Consultant:

Jacobs

Duration:

June 2016 – August
2017

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Project opportunities and challenges included:

- Project complexity (challenging construction program, coordination of subcontractors and supply times).
- Major change in water main southern alignment resulting in delays associated with redesign of the pipeline, location of services in the new alignment and new survey and set out.
- Proactive relationship management with many stakeholders.
- Landfill was encountered during excavation works. Test pits confirmed that the landfill area extended 471m through the site.



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