



Sickle Avenue Bridge

CITY OF GOLD COAST | HOPE ISLAND QLD

Alder Constructions was awarded the contract to construct a 45m long, 3-span new road bridge and associated civil infrastructure for the Hope Island community. The bridge, canal excavations and road works were part of the final piece of flood mitigation works in the Hope Island canal.

Significant changes made to the design during the construction phase, providing a challenge for our team as they navigated the changes on an operational site. When the project was completed, it was hailed as a success by our client and the local community.



PROJECT VALUE:

\$11.3m

SECTOR:

CIVIL // BRIDGES & MARINE
INFRASTRUCTURE

DELIVERY MODEL:

CONSTRUCT ONLY

PROJECT HIGHLIGHTS

- During construction, Sickle Avenue was diverted a number of times by constructing temporary side tracks to allow for construction to proceed with minimal traffic disruptions.
- Demolition of an existing roundabout and construction of two new signalised intersections
- Improved overhead lighting.
- New footpaths and designated bike lanes were also added to the bridge approaches.
- Construction of three traffic lanes, two cycle lanes and two footpaths.
- New and relocated services including underground and overhead power, gas lines, water (potable and recycled) and sewer (vacuum and gravity) reticulation.
- Dredging of the canal removed over 20,000m³ of sand and .earth material
- The bridge is supported by 40 pre-cast concrete piles 30m long driven into the rock beneath the canal floor.