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TOM SIMPSON PARK PEDESTRIAN BRIDGE

SUMMARY

Client: Moreton Bay Regional Council

Location: Tom Simpson Park, Albany Creek

Duration: 6 months

Project Value: \$ 125k

Major Challenges Overcome:

- Ground Conditions
- Site Access

New Pedestrian Bridge



into the existing footpath as seamlessly as possible.

- The new bridge should be single span and approximately 13 metres long.
- The bridge to include compliant bicycle safe handrails.
- The design to include no timber components and be corrosion resistant as part of the design solution.

Programme

The repair work commenced in March 2021 and was completed in early August 2021. The initial programme was delayed by changing from bored piles to screw piles on conclusion of the soil investigations.

The Project

Moreton Bay Regional Council commissioned DYNACIV to install a new single-span pedestrian bridge in Tom Simpson Park, Albany Creek.

The works included the removal and safe disposal of the existing culvert, and the design and construction of a new pedestrian bridge. This renewal resulted from a need to replace the existing infrastructure with a modern design that will result in a safe and low maintenance pedestrian bridge.

Design Requirements

The design had the following key requirements:

- The width of the new pedestrian bridge should be a minimum width of 2 metres and should link

Project Scope

The project comprised of the following work:

- Soil investigations and RPEQ design and works certification.
- Removal of old culvert crossing
- Two new abutments
- New 13m single span bridge
- New footpath on either side of the bridge

Increased scope of work:

- Bored piles replaced with screw piles.

Completed Works

The following works were successfully carried out:

Removal of the old culvert

The old culvert/concrete bridge was permanently removed.



Screw Pile Installation

Due to ground conditions the core pier design was changed to using 9m long screw piles.



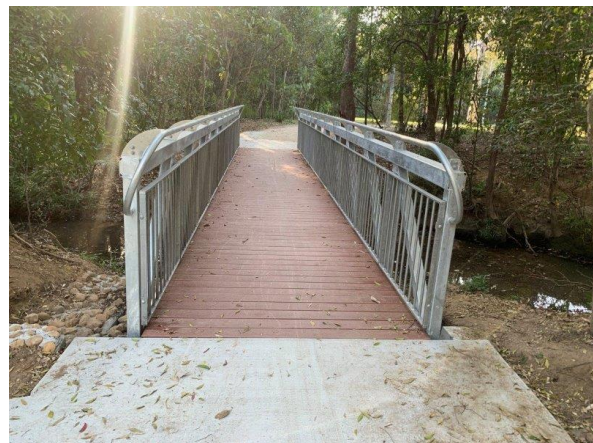
New bridge abutments

Below is a photo of the new abutments installed



New pedestrian Bridge

The new 13m span bridge was included guard rails and cycle safe handrails with mod-wood decking. The bridge was craned into position.



New footpaths

New foot paths was installed on either side of the bridge to link seamless with the existing footpaths.

