



**Todd Richards**  
Director/Civil Engineer  
Tipepec Pty Ltd

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#### Qualifications

Cert 3 in Bricklaying

BE (Civil)

#### Affiliations

Engineers Australia  
IPWEAQ

### Summary of Experience

Todd has over 15 years' experience as a trade qualified Bricklayer in the building and construction industry prior to a career change to Civil Engineering. In his Civil Engineering career, he has worked on numerous projects on the Fraser Coast, Bundaberg, Brisbane, Sunshine Coast and Toowoomba. He has six years' experience in the use of AutoCAD and 12D and has developed projects from the conceptual stage through to detailed design. In his current position he is responsible for the production of conceptual and detailed designs of projects, construction estimates and bill of quantities.

### Key Skills include:

- Planning and Design of Urban and Rural Infrastructure
- Proficient skills in the use of 12D for the design of bulk earthworks, roadworks and stormwater drainage.
- Preparation of design concept and complete drawings using AutoCAD.
- Preparation of bill of quantities and construction estimates.

### Signature Projects:

**Chapel Road, Maggs Hill Road, Main Street and Madsen Road** – Conceptual design of urban distributor roads at the southern extent of the urban footprint including vertical and horizontal alignment, signalised intersection and roundabout design, pedestrian crossing facilities, on-street cycle facilities, land resumption layout, bill of quantities, and estimate of cost.

**New Acland Mine, Acland** – Planning and detailed design associated with the realignment of Jondaryan-Muldu Road to provide a grade separated crossing of a mining haul road, including horizontal and vertical geometric design, stormwater drainage design, bill of quantities and 3D visualisation/flyover modelling using 12d.

**Tinnanbar Road, Tinnanbar – Between Maryborough Cooloola Road and CH3600** – Concept planning, detailed design and documentation associated with 3.6km of seal extension works and realignment for Fraser Coast Regional Council, including road design, pavement design, OS Road speed modelling, stormwater drainage design, bill of quantities and estimate of cost.

**Sawmill Road, Dundowran Beach** – Conceptual design, interim design and detailed design of a controlled distributor road on the PCN, including various layout options, pedestrian crossing facilities, footpath design, bus stop design, vertical and horizontal alignment, stormwater drainage, bill of quantities, and estimate of cost.

**PCYC, Carpark Design Pialba** – Concept planning, detailed design and documentation associated with the car park design associated with the Hervey Bay City Centre Revitalisation, including pavement design, stormwater drainage, line-marking and signage design, bill of quantities and cost estimate.