DANIEL HANSEN
Senior Design Engineer

Bachelor of Engineering with Honours (Civil)/ Bachelor of Science (Physics)
James Cook University (2007)
Registered Professional Engineer of Qld, 15948
MIE Aust, CP Eng, NER (Civil & Structural)

PROFESSIONAL EXPERIENCE

Training
RIIOHS202D Enter and work in confined spaces

Inductions
General Safety Induction (White card)

Skills
Problem solving
Conceptual and preliminary design
Structural design
Design coordination
Project management
Investigation and reporting
Site supervision

Project Types
Condition Reports
Refurbishments
Mine Facilities
Commercial Buildings
Industrial and Warehouses
Educational Facilities
Residential Buildings
Finite Element Modelling

LCJ ENGINEERS PTY LTD
Senior Design Engineer 2014 – Present
Graduate Design Engineer 2008 - 2012

Daniel was born and bred in Townsville and is a graduate of James Cook University. His key responsibilities at LCJ Engineers include the preparation of proposals, attending stakeholder meetings, coordination of consultants, schematic and detailed design, management of the preparation of technical documentation including drawings and reports, and field supervision of construction activities through to completion. Some recent projects that Daniel has been involved in include:

BRIDGES AND LOAD RATINGS

- **James Cook University Verandah Walk** (2015-2016) – Daniel carried out a review of the pedestrian bridge design involving checking hydraulic loads, live loads and conceptual planning.
- **Arnot Creek Bridge Replacement,** Hinchinbrook Shire Council (2016) - Daniel was responsible for the structural review of the existing bridge to meet the client's proposed construction methodology. Previous reports were used to determine defects to elements for design review. Full SPACE GASS models were built to model different loading and degradation scenarios.
- **St Joseph's Mundingburra High Level Concrete Walkway** (2016) – Daniel was involved in the review of the inspection and preparation of the condition report and repair recommendations for this walkway which spanned two (2) buildings at first floor level.
- **Rollingstone Creek Timber Bridge** (2015) – Daniel carried out a design review for the headstocks on the existing Rollingstone Creek Timber Bridge.
- **Various works for Vantassel Street to Cluden upgrade** (2013-2015) – This project involved various works for the upgrade of the Bruce Highway between Vantassel Street and Cluden. These works included drainage structures, temporary side track access, crane pads/lift studies, trafficking of culverts and site inspections of works. Daniel was responsible for numerous different design requirements depending on the project. Daniel designed crane and piling pads, reviewed existing reports, reviewed lifting plans and designed drainage structures.

- **Reedybrook Creek Bridge** (2013-2014) – Site visit for measure up and visual assessment.
- **Constant Creek Rail Bridge** (2012-2014) - Daniel was responsible for conducting a design and documentation review for the project at tender stage. This included checking the design standards and references used and reviewing the geotechnical, flooding and other associated reports for the project. Although no detailed calculations were completed by Daniel, spot checks of calculations completed by the designer (Danny Johnstone) were undertaken as part of the review.

CONDITION REPORTS

- **139-157 Stanley Street (3 storey Atkinson House and two x 2 storey buildings) and Chifley Hotel (6 storey)** (2015-2016) – Structural condition assessment of buildings outlining observed distress within the sites prior to adjacent construction commencing.
- **Apartments on the Lakes III, Martinez Avenue** (2014) – Visual condition inspection and preparation of report on movement within Units 3 and 5.
- **Yanks Jetty**, **ramp and pontoon at Orpheus Island** (2009) – Preparation of maintenance/condition report for the structures above and below the water line and provided comments on how the existing structure compared to the original design.

CONCRETE TESTING

- **Berth 8 crack observations and fender panel review,** Port of Townsville (2015) – Daniel carried out a review of the report which compared the observed cracks in the concrete on grid “L” beam, grid “P” beam and the topping slab of Berth 8 with the applicable Australian Standards and recommended any potential works required to meet the durability intent of the structure.