
David Farah—

Executive Director



Experience Overview—

David has a total of 15 years design experience and has been involved in the design, documentation and coordination of a diverse range of civil engineering projects and building structures in Australia and overseas. He has extensive experience in design development and conceptual civil and structural design for a wide range of projects.

David has a proven track record of leading large multidisciplinary consultant teams, working with Contractors, Developers, Transport Agencies and Local Councils, delivering complex projects. He has a drive for innovation, and ensuring excellence is delivered through all facets of the project.

Detailed Project Experience—

Civil Infrastructure Project Experience

Ipswich Motorway Upgrade- Rocklea to Darra Stage 1.

Project Director for the Detailed Design and successful tender design of the Ipswich Motorway Upgrade, Rocklea to Darra, Stage 1a.

The Project itself requires the widening of the Ipswich Motorway from 4 lanes to 6 lanes, the construction of two new parallel service roads, upgrading of the motorway to a “managed motorway” standard and raising the existing motorway by 2.5m over a length of 1.5km, all within a highly trafficked, highly constrained and urbanised section of road.

Smith Street Motorway Upgrade ECI

Structural Design Team Leader and Member of the Project Leadership Team for the ECI phase of the \$60M Smith Street Motorway Upgrade Project. The Project was delivered under a D&C arrangement with BG&E engaged as key member of Lend Lease’s Design Team. The project involved the design of a new interchange between Olsen Ave and Smith Street and upgrading / widening / rehabilitation of existing motorway and arterial roads approach and departing the interchange.

Pacific National Infrastructure Alliance – Nebo QLD

Design Manager and Alliance Management Team (ALT) Member for the Pacific National Infrastructure Alliance responsible for the Civil and Structural design of a \$170 million rail maintenance facility for Pacific National at Nebo, Queensland. Role also included the management of the services sub-consultants for Mechanical, Electrical and Hydraulics design.

Position—

Executive Director, BG&E Pty Limited

Qualifications—

- BE (Civil), Hons
- MIEAust, CPEng (Civil & Structural)
- RPEQ (Civil & Structural)
- Rail Industry Worker

Career Milestones—

- 2014 / Appointed Executive Director with BG&E
- 2011 / Appointed Associate with BG&E
- 2010 / Appointed Principal-in-charge of BG&E’s Brisbane Office
- 2009 / Appointed Principal with BG&E
- 2003 / Joined BG&E
- 2001 / Project Manager of Patrick Shipping Terminal Development, Devonport with Fielder Engineers
- 1999 / Site Engineer with Leighton Contractors

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Waitara Locomotive Maintenance Facility – Waitara QLD

Design Manager for the Pacific National Locomotive Maintenance Facility at Waitara. The new facility featured a new access road, laydown areas and carparking including associated pavements and drainage, a maintenance building with an in-ground service pit and overhead crane, administration office and amenities building. Water treatment and additional storage facilities were also provided.

Newcastle Coal Infrastructure Group, Export Terminal – Newcastle NSW

Lead Design Engineer and Project Manager for the design of the temporary wharf working platform used for the installation of the permanent wharf piles at Berkins K8 and K9 at the Newcastle Coal Export Terminal. Scope included the production of steel workshop drawings.

BHP – Billiton Mitsubishi Alliance – Saraji Mine QLD

Responsible for the Independent structural review and investigation of the structural failure of the Raw Coal Stockpiling Conveyor.

Townsville Port – Townsville QLD

Project Manager for structural assessment of existing reinforced concrete bulk handling wharf. Scope included development of shipping loads, assessment of capacity of deteriorated structure and reporting of results and conclusions.

Forest Springs Subdivision Stage 1 to 21 – Gladstone QLD

Design Manager for the civil engineering design associated with a 1000+ lot residential subdivision delivered over numerous stages. Works included Sewer, Stormwater and Bulk Earthworks Master Planning, detailed Hydrology and Hydraulics design for an upstream catchment flowing through the site, and Water Quality modelling and detailed design.

Bethania Commercial Development – Bethania QLD

Design Manager for the Bethania Commercial Development involving the land development and subdivision of 5 commercial lots. Project involvement included earthworks design, drainage design, pavement design, erosion and sediment control design, water reticulation design, sewer reticulation design, services coordination design and input into and coordination of the Geotechnical Design.

Citistwich Subdivision Stage 6C & D – Bundamba QLD

Design Manager for the design and documentation of a 111+ lot residential subdivision, including bulk earthworks, stormwater, sewer reticulation and water reticulation.

Building Education Revolution (BER) – Sydney Region NSW

Project Manager for civil and structural design of various school buildings, as part of the Government Building the Education Revolution Stimulus package. Scope included design and documentation of building foundations, building superstructure and all associated stormwater drainage including onsite detention.

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Bridge Project Experience

Project Director, Gateway Upgrade North Bridge 11 – Deagon Deviation Northbound Exit Ramp, SMEC/Jacobs Design Joint Venture

Project Director for design of a 6 span single lane ramp-bridge over the Gateway Motorway and Northbound off ramp. The bridge consists of 1825mm deep super T girders with a cast in situ deck and is supported on reinforced concrete blade walls. The foundations consist of 1200mm diameter cast in situ bored piles socketed into rock. The bridge alignment is on a reverse curve with a super elevation transition and each pier is on a different skew where the maximum skew occurs at pier 5 of 56 degrees. The delivery of the design of the bridge was split into a substructure package and a superstructure package such that construction can progress with minimal delay.

Veloway Stage E Preliminary and Detailed Design

Project Director for the Preliminary and Detailed Design of the \$35M Veloway Stage E Project. David oversaw and was ultimately responsible for the design delivery of over 900m of bridge at 400m of at grade bikeway through an extremely urbanised corridor. Through innovative design practises and considered stakeholder engagement, the BG&E team were able to produce a design that reduced the initial estimate by over \$15M and preserved all parties' interests.

Project Director, QR Tablelands Bridge Pier Replacement – Forsayth Branch, Doval

Project Director for design of 10 timber pier replacements for five timber rail bridges on the Forsayth Branch. The pier replacements consisted of two steel columns supporting a double parallel flange channel (PFC) headstock beam. The pier frame was supported by a cast in situ 600mm diameter bored pile under each column. The new foundations were constructed outside the footprint of the existing timber piles thus allowing the substructure to be constructed with minimal disruption to the railway operation.

Brisbane City Council's Canterbury Park Footbridge

Project Director for the design, documentation and construction support for a 12 metre span by 3m wide reinforced concrete bridge for the shared path in Canterbury Park, Bald Hills.

The existing timber bridge was demolished due to its poor condition. A new reinforced concrete bridge was constructed to replace the previous bridge and allow the shared path to be reopened. Whole of life costs for the asset owner was a major consideration in the design process and resulted in the reinforced concrete solution being adopted.

Forest Hill Timber Bridge Replacement

Project Director for the management and production of design documentation for a 45 metre 3 span precast girder Rail Bridge for Queensland Rail. The existing timber bridge is to be replaced with the new bridge over a 40 hour shutdown of the rail line. Relevant design detailing and construction methodologies have been incorporated to achieve the construction in such a short timeframe.

Sydney Airport Bridge – Sydney NSW

Design Engineer involved in the design of a 60m clear cable stay bridge. Responsibilities included concept and detailed design of all bridge components and overall project coordination.

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Buildings

Brisbane Casino Towers, South Brisbane, QLD

Project Director for the design, documentation and construction of a new residential building at 19-23 Hope Street, South Brisbane. The development comprises 36 levels: 6 levels of below ground basement, 5 levels of mixed podium including building entries, loading dock substation, retail, carparking, residential facilities (pool, gym etc.) and 25 levels of residential apartments.

Proximity at Portside Wharf – Hamilton QLD

Design Manager for the structural and civil design of a proposed 14 storey residential tower in Hamilton. The development consists of a total of 107 apartments in the master planned Northshore Waterfront precinct in Hamilton. Due to a high water table, the development consists of only a single below ground basement with a further 3 levels of carparking above ground. The development features a common landscaped podium with an in-ground pool at Level 3. The also development includes several commercial spaces at ground level.

Westmark Residential Development – Milton QLD

Design Manager for the development of a proposed mixed use development, consisting of 277 apartments and 4 retail spaces. The development consists of 2 residential towers, 17 and 20 storeys high, constructed from a common landscaped podium and 6 levels of carparking. The development includes several retail spaces, including a major supermarket, at ground level.

Island Apartments – South Beach, Fremantle WA

Design Engineer involved in the development of proposed high quality residential apartments and townhouses. Consisting of 80 apartments and 13 townhouses. The development consists of a total of 4 x 5 story residential apartments building with 1 level of basement.

Broadway Shopping Centre – Sydney NSW

Design Engineer involved in the refurbishment of existing shopping centre including addition of 3 levels carpark structure, one existing 9 level carpark, and additional retail floor.

Birkenhead Point Shopping Centre – Sydney NSW

Design Engineer involved with the redevelopment of existing retail centre including refurbishment of several retail buildings and new carpark, and office building.

Balgowlah Village Shopping Centre – Sydney NSW

Proposed major mixed use retail & residential development consisting of 2 levels of basement carpark, a large single level retail space, including a major supermarket, at ground level, and nine apartments towers over constructed over off a common podium. The apartment buildings ranged from 3 to 9 storeys.

UWS Parramatta – Parramatta NSW

Project Manager and Lead Designer for the new 320-bed on-campus student accommodation facility. Structural design of a total of 13 concrete framed buildings and civil design of all site drainage including onsite stormwater detention.