
Derek Heiden—

Associate Director



Position—

Associate Director, BG&E Pty Limited

Qualifications—

- BE(Hons)
Bachelor of Engineering (Honours)
- MIEAust
Member, Institute of Engineers
Australia
- Member College Structural and
Civil Engineers
- Registered Building Practitioner,
VIC EC 44129
- Associate Diploma of Survey
Drafting

Career Milestones—

- 2015 / Appointed Associate
Director of BG&E
- 2010 / Appointed Associate of
BG&E
- 2008 / Appointed Principal of
BG&E
- 2005 / Joined BG&E
- 2002 / Structural Engineer,
Krahn Engineering, Vancouver
- 2000 / Structural Engineer,
Saraceni Engineering Group

Experience Overview—

Derek has 19 years' experience as a design manager and structural engineer in the design and project management of a wide range of building and transport structures in Australia, Canada and the Middle East.

Derek has taken a lead role in a number of transport infrastructure, retail and health projects including the Perth Stadium Station, Perth Busport, Midland and Fiona Stanley Hospitals, and numerous university campus buildings. Derek has experience in multiple delivery models including traditional design, tender as well as D&C, PPP and Alliance Contracts

Derek has undertaken several design certification projects and issued Regulation 1507 Certificates as the Registered Building Practitioner.

Derek is currently the Regional Manager (Vic) for BG&E.

Project Experience

Transport

Perth City Link – Bus Project

- Structural Team Lead for the delivery of a \$240M a new underground bus station to replace the aging Wellington Street Bus Station. Delivered under an Alliance with the Public Transport Authority of WA and Brookfield Multiplex.

New Perth Stadium Transport Infrastructure – Rail Station

- Structural Team Lead for the reference design of a \$50M, six platform rail station including two concourse bridges as part of the new Perth Stadium precinct at Burswood. To be delivered under an Alliance contract, the design was undertaken direct for the Public Transport Authority of WA.

Westgate Distributor – Stage 1

- Management and lead design support for the tender design of Sheppard's Street bridge strengthening and a new pedestrian bridge over the Maribyrnong River.

Health

Midland Health Campus

- Project Leader for the delivery of a \$340M Level 4/5 Hospital comprising 42,500m² of clinical and ward space. Responsible for leading the structural design team in the preparation of the technical engineering brief development of schematic design and documentation.

State Rehabilitation Centre - Fiona Stanley Hospital Campus

- Lead Engineer for the structural engineering component of this \$220M development. Comprises 25,000m² of clinical, rehabilitation and teaching facilities using a mix of conventional and post-tensioned concrete and structural steel.

Pathology and Education - Fiona Stanley Hospital Campus

Design Review Engineer for the structural engineering component of this four storey building located on the FSH campus.

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UWA Biomedical Research Facility

- The Bio Medical Research Building at Shenton Park is a purpose built, extensively serviced research facility. It is predominantly single storey with a central, concrete framed, 2 storey plant area. The building includes a timber framed (Hyspan) roof supported on steel columns.

Civil and Civic

WA Schools PPP Project

- Civil and structural design lead for the competitive bid design of four primary schools and five senior schools under a PPP procurement model with Plenary Group and Pindan Contracting.

Eastern Goldfields Regional Prison

- Design engineer for tender design of a new 350 bed minimum and medium security incarceration facility. In a first for the region, the facility was designed to engage Aboriginal Prisoners in culturally appropriate programs and courses. It also had a specific focus on the needs of female Prisoners.

Perth District Courts

- Detailed design engineer for a \$170M building over 14 levels to redefine court facilities in WA. A highly refined structure in a very restricted site.

Retail and Commercial

Westfield Innaloo Shopping Centre –Scentre Group

- Providing internal peer review for the \$350M redevelopment and expansion of Innaloo shopping centre in Perth.

May Holman Centre Redevelopment – 32 St Georges Terrace Perth

- Project leader for the commercial redevelopment adding 14,000sqm of steel framed floor plate over 14 storeys to an existing 1970's concrete building. Design also included the complete demolition and rebuild of the central service core.

Warnbro Shopping Centre – Stage 2

- Engineering lead for 18,000sqm expansion of the existing shopping centre. Expansion consisted of major box retailer and approximately 30 specialty retailers. 200 bay roof top parking provided above the box retailer.

The Shops at Ellenbrook – Stage 2

- Engineering lead for the 25,000sqm expansion of a major regional shopping centre. Consisted of two major box retailers along with an array of speciality tenancies.

Commercial Development - Subiaco

- Lead Engineer for the structural engineering component of this \$220M development Comprises 25,000m2 of clinical, rehabilitation and teaching facilities using a mix of conventional and post-tensioned concrete and structural steel.

Residential

Seascapes Apartments - Mandurah

- Design Engineer of 7 storey plus basement apartment complex for Mirvac Property Development. The design included a suspended swimming pool and podium over an underground carpark. Structural design consisted of in situ concrete floor and columns with concrete core walls providing lateral stability and precast façade elements.

Osborne Apartments -

- Concept design of 70 apartments over 7 storeys with basement carpark and podium structure. Structural framing included in situ concrete floors and columns with service cores providing lateral restraint. Complex transfer structure at podium level to accommodate disconnect between apartment columns and car park layout.

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Gorgon Construction Village

- Lead Engineer for design of foundations and ancillary buildings for the 3300 person camp on Barrow Island. Also responsible for third party verification of accommodation buildings designed to withstand 360km/h cyclonic winds.

St Cecelia's Residential Development – Design Review and Expert Witness

- Provided forensic engineering, design review and expert witness services to BHP Billiton for a residential development in Port Hedland.

Frasers Queens Riverside

- Detailed design engineer Comprises four buildings, total of 55,000m² ranging in height from 8 to 32 floors with residential, serviced apartments and hotel.

Education

Curtin University – School of Occupational Therapy

- Detailed design engineer for the conversion of circa 1970 squash court building into high quality teaching space for the School of Occupational Therapy. Structural challenges included modification of existing steel roof trusses to increase height of bottom chord, addition of a second storey within the current building envelope and complete seismic retrofitting of existing clay brick building.

ECU Joondalup Student Services Building

- Design Manager for the \$80M Student Services development. Project included six story main building with 500m² suspended podium.

Curtin University – North Plant Stage 2 and Terminal Substation

- Detailed design engineer for the expansion of HV and heating water circulation throughout Curtin's Bentley Campus. Projects consisted of tilt up concrete panels with a combination of in-situ and Hollowcore concrete floor slabs to cater for plant loading.

UWA Biomedical Research Facility

- The Bio Medical Research Building at Shenton Park is a purpose built, extensively serviced research facility. It is predominantly single storey with a central, concrete framed, 2 storey plant area. The building includes a timber framed (Hyspan) roof supported on steel columns.