



## 1. Capability Information

BRCE provides civil and structural engineering services to a range of clients from individuals and Developers through to Councils and large corporations. BRCE caters for small through to large developments or Projects covering engineering design and certification services.

BRCE has been operating for over 30 years, providing cost effective engineering solutions across southern and Central Queensland.

BRCE experienced staff provide services throughout the Surat Basin, South Burnett, Wide Bay and Western Queensland using our knowledge of local conditions, soils and terrains, and their extensive network of contacts – this delivers a strong understanding of project requirements and Council expectations to support successfully project delivery.

BRCE can provide a single point of engineering supply through our network of complementary firms supplying Electrical, Mechanical and Geotechnical Engineering, Building Design and Town Planning.

BRCE range of services include

- Road, intersection and access design and upgrades,
- Storm Water infrastructure evaluation, conceptual and detailed design,
- Potable water reticulation design.
- Sewer Design
- Infrastructure Projects including Camps, Hospitals, Community centres, Airport facilities.
- Subdivisions for Residential and commercial projects
- Structural Engineering for Residential, Commercial and Industrial buildings.
- Electrical and Tele communications design
- Testing services for soils, construction materials and installed services

## Products and Services

BRCE provides civil engineering solutions for:

- Subdivision design
  - Residential and Industrial
    - Roads
    - Stormwater
    - Water
    - Sewer
    - Power (through partners)
    - Communications (through partners)
- Road works and parking area evaluation and design including
  - Traffic Turn Path analysis
  - Pavement Design ranging from gravel roads to highway road.
  - Rural Road Design
  - Urban Road Design
  - Highway Road Design
  - Traffic management Reports
  - Access road and site layout design
- Water infrastructure management
  - Stormwater reports and design to QUDM (QLD Urban Design Manual)
  - Erosion control
  - Dams
  - Potable water reticulation
  - Sewer networks
- Technical and site development advice including:
  - Suitability of site for proposed design.
  - Feasibility study input.
  - EIS (Environmental Impact Statement) input
  - Operational Readiness support
  - Regulatory and compliance advice:
    - Compliance audits for Storm Water Quantity and Quality
    - Development of documents for Development Application lodgement – (DA's) required by the Town Planner
- Project management & Administration
  - Design verification inspections and project administration management

BRCE has specialist local knowledge in

- Civil design for camps including site layout design, sewerage design
- Civil Construction Inspections
- Sub Division Design
  - Residential
  - Commercial
  - Industrial

## **Hydraulic (Water) Engineering**

- Project Hydraulics
  - Sanitary drainage
  - Trade waste drainage
  - Project sewer pump stations/ rising mains
  - Water main reticulation design
  - Head works contributions estimates
  - Fire hydrant / hose reel services
- Building
  - Warm, hot & cold water services
  - Property sewerage drainage
  - Downpipe and gutter sizing

## **Storm Water Engineering**

- Storm water Quantity – manages runoff to Queensland Standards.
- Stormwater Quality
- Stormwater drainage & disposal including storage solutions
- Flood risk management reports
- BR engineers each design based on the different terrains and soil types in the project to minimise erosion.

## **Structural Engineering**

- Structural design review new buildings
- Structural design review for modifications and extensions
- Structural Construction Inspections
- Footing design including Slab on ground, Pier and Beam and Waffle Pod.
- Hydraulic design with in the structure and lot for potable and sanitary water
- Fire service design for Hydrants and Fire Hose reels
- Retaining walls

## **Operational Readiness**

- Additional planning and support to have your project ready to operate when it is completed.

## **Geotechnical Engineering** (through Partners)

- Soil testing
- Soil Analysis
- Site stability reports

## **Electrical, Communications and Air conditioning Design** (through Partners)

## **Building Design and Architecture** (through Partners)

### **The BRCE approach**

Understand the project owner's project vision and requirements. Break the project into key sections, identify the project key milestones. Identify additional skills required to support our core skill set, reviewing council and / or regulatory requirements to for a successful outcome. Work with the Project owner local council and identified partner businesses to achieve the desired result.

BRCE has a reputation for completion of work on time and to budget.

Areas served Lockyer Valley, Darling Downs, Western Qld, South Burnett.

Maximum value of contract \$200,000.00 (Engineering Fees)

## 2. Equipment

The BRCE office is located at 136 Herries St, Toowoomba, Qld 4350

### BRCE Memberships

- Consult Australia
- Stormwater Industry association
- Toowoomba Surat Basin Enterprise Association
- Toowoomba Chamber of Commerce
- Dalby Chamber of Commerce

### Staff

The staff includes Civil, Structural and Mechanical RPEQ's, Civil and Structural Designers and Drafters.

BRCE has a staff development program to ensure that our staff are at the leading edge of current methods, regulations and techniques. Our staff participate in monthly safety updates and training.

BRCE's professional staff hold the qualifications of BEng, CPEng and comply with the Institute of Engineers requirements for CPD (Continuing Professional Development)

BRCE staff are members of as appropriate:

- Institute of Engineers Australia
- Australian Institute of Management
- Toowoomba Chamber of Commerce future leaders
- Sustainability Engineering,
- Asset Management Society,
- Society for Engineering in Agriculture,
- ASABE (American Society of Agricultural and Biological Engineers)

### IT

BRCE have the following software packages to assist in design.

- Autocad
- AutoCAD Infrastructure Design Suite
- AutoCAD Building Design Suite
- AutoCAD LT
- 12D
- MX
- Drains
- PC Drains
- PC Culvert
- MS Office Suite
- Solidworks

BRCE has up to date computer hardware including the capability to print drawings up to A1 size

BRCE has a reference library of Australian standards, Legislation, Codes of Practice and OEM materials reference material for Civil and Structural design

### 3. Track Record

Major clients

Examples of past work/projects – show diversity. Use 'ICN format' if listing with ICN

1	Date	2013, 2014
	Project Name	Ensign Toowoomba Facilities Extension
	Client	Ensign Energy
	Scope of work	Warehouse and Office extensions Preparation of Drawings for Development Approval. Provision of stormwater reports, detailed stormwater design, structural engineering for sheds, warehouse and office.
	Value (Fees)	
2	Date	2012, 2013
	Project Name	Roma Workers Camp
	Client	FK Gardner's
	Scope of work	Earth works design and liaison with council and client with design options for connection to the town sewerage treatment facility
	Value (Fees)	
3	Date	2014
	Project Name	Roma Sale Yards and Truck Wash
	Client	Maranoa Regional Council
	Scope of work	Master Plan Engineering and detailed engineering design
	Value (Fees)	
4	Date	2013
	Project Name	Rural Road design for flood repair works
	Client	Toowoomba Regional Council
	Scope of work	Provide road alignment for repair of roads and associated water control table drains and culverts.
	Value (Fees)	
5	Date	2013, 2014
	Project Name	Roma Community Hub
	Client	Maranoa Regional Council
	Scope of work	Structural and hydraulic engineering for the Roma Community Hub. Structural inspections during construction
	Value (Fees)	

6	Date	2014
	Project Name	Aruma Drive Sub Division
	Client	Rhonzoa Pty Ltd
	Scope of work	Design, contract administration and construction inspections.
	Value (Fees)	
7	Date	2013
	Project Name	Maradahti School
	Client	Maradahti School
	Scope of work	Structural Engineering and inspections for new 3 story school building
	Value (Fees)	
8	Date	2012, 2013, 2014
	Project Name	Residential Houses
	Client	Gordon Burke Homes
	Scope of work	home foundation design, foundation and lockup final inspection
	Value (Fees)	
9	Date	2013
	Project Name	Boarding House
	Client	Dalby Christian College
	Scope of work	New boarding house Structural and Hydraulic Engineering, Highway Widening
	Value (Fees)	
10	Date	2011, 2012, 2013
	Project Name	Platinum Motel Extension
	Client	Platinum Motel, Toowoomba
	Scope of work	Building Design, Civil and Structural Engineering, construction and final inspections, management of project variations.
	Value (Fees)	

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## Management Systems

These systems are currently being implemented with the aim of certification in 2016

Safety Management System (to AS4801)

Environment Management System (to AS14001)

Quality Management System (AS9001) (Previously Qualified to August 2014)

Risk Management Approach (based on AS31000 and Engineers Australia Risk Management Guide)

### Insurances

Worker Compensation (Qld)

Public Liability \$20,000,000

Professional indemnity \$5,000,000

## 4. Contact Details

**Firm Name Baker Rossow Consulting Engineers**

**Street address 136 Herries St, Toowoomba, Qld 4350**

### Main Contacts

Principal Stephen Muhldorff, Managing Director

Structural Engineer Michael Ryan

Civil Manger Brendan Reid

Civil Engineer Nick Kohn

**Phone 07 4638 5655**

### Mobile

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**Postal Address PO Box 1382 Toowoomba 4350**

**Year Established 1982**

**ABN 95 161 163 499**

## 5. Working with Industry and Others

### Pre Qualifications

Arrow Energy

Local Buy:- Engineering Consultancy Services - (BUS 226-0212)