

## ROADS AND HIGHWAYS

### Capability Statement

Empower Engineers & Project Managers provide civil, structural, mechanical and electrical design, and project management services.

Empower is unique in the engineering services market. As the design arm of BMD's vertically integrated Group of companies, Empower are able to offer clients a design only service or the complete design and construct package.

Supported by the strength of the BMD Group, we are able to offer clients a variety of options regarding risk and opportunity management, contracting styles, time and cost controls.

### THE BMD GROUP

The BMD Group is renowned for its engineering design, construction and land development. BMD deliver projects for clients and partners in the infrastructure networks, land development and resources and energy sectors.

Founded in 1979, BMD has approximately 1,700 staff with the resources and experience to deliver projects ranging in construction value from \$500,000 to \$1.5 billion and design fees valued from \$25,000 to \$1 million.

### VALUE ENGINEERING

Empower provide clients with value for money assurance by maintaining transparency in pricing and delivery.

### Risk and opportunity management

Early Contractor Involvement (ECI) provides clients with the opportunity to identify and quantify potential risks.

This process promotes open and informed dialogue about risk apportion and management.

### Collaborative contracting

Empower has successfully worked in collaborative contracting arrangements, including alliances, with client employees forming part of the project delivery team.

Fast and effective decision making as well as upskilling and sharing of lessons learnt has produced positive outcomes including expedited delivery timeframes and defect free projects at practical completion.

### Time and cost control

The simultaneous engagement of design and construction contractors has proven to expedite the start of construction.

Empower is able to offer this to clients either as the designer, contractor or as both through the vertical integration of BMD companies.

### Value for money assurance

In order to provide clients with value for money assurance, Empower offers clients a variety of models as well as transparency in pricing build-up and margin on direct job costs.

### EMPOWER VALUE EQUATION

Empower employs the following equation to deliver projects, encouraging collaboration and innovation, ensuring we achieve best for project outcomes for our clients.

#### COLLABORATIVE PLANNING AND IMPLEMENTATION



#### INTELLIGENT AND RESPONSIVE DESIGN



#### INFORMED AND COST EFFECTIVE CONSTRUCTION



#### PROVEN VALUE FOR MONEY AND MORE PROFITABLE PROJECTS



#### A MORE RESILIENT AND SUSTAINABLE INFRASTRUCTURE NETWORK.

*“Empower’s strong relationships with our clients combined with our experience and understanding of the safety, quality and environment protocols required to work in various construction frameworks and environments, is reflected in our designs. We are able to respond to design and construction challenges, collaborating with our clients to provide value engineering options to achieve best for project outcomes.”*

**Matthew Beggs**

National General Manager – Empower Engineers & Project Managers

[www.eepm.com.au](http://www.eepm.com.au)

## ROADS AND HIGHWAYS

### MASTER PLANNING AND DESIGN

#### *Trunk Roads Network Peer Review for Greater Flagstone and Yarrabilba*

Logan, QLD

This \$1.5 billion road network is anticipated to service 70,000 homes and 170,000 people. A review of the road typology proposed for this significant growth region provided a level of confidence to the client that it would be fit for purpose. A review of the client’s estimating model was carried out with the preliminary design of some roads and intersections within the network. Stakeholder meetings were critical to ensure clarity in the initial brief right through to the application of the end product.

#### *Trunk Road Corridor Design Planning*

Jimboomba and Park Ridge, QLD

Over a three year period, Empower delivered preliminary designs for 100km of arterial roads across this growth corridor in southern Brisbane, QLD. The designs included the land requirements, intersection forms and both horizontal and vertical alignment of most future trunk roads. This enabled the client to assess development applications with confidence, as their vision of future road connectivity was clearly laid out.

#### *AACAP 2012 Dampier Peninsula - Road Intersection Upgrade*

Dampier Peninsula, WA

The uncontrolled five leg intersection of Djarindjin, Lombadina and Chile Creek Roads was modified with detailed design and value engineering. The finished product separated and realigned the approaches so that two T-intersections were formed with appropriate intersection and approach road signage.

#### *Roseneath Quarry - Highway Intersection*

Roseneath, QLD

A T-intersection was designed on the Flinders Highway for access to Holcim’s Roseneath Quarry. The intersection design including management of an informal truck stop and access to private properties.

#### *Observation Rise - Arterial Road Roundabout Connection*

Townsville, QLD

Design for the modification of an existing three leg roundabout to include a fourth leg for access to a new development site. The design includes traffic management considerations, extensions to guardrail systems, a major culvert structure and realignment of open stormwater channels.



### DESIGN AND CONSTRUCT

#### *Chambers Flat Road*

Logan, QLD

Arterial roads duplication (2.5km) with two signalised intersections.

#### *Darcy Edmunds Bridge Replacement*

Jimboomba, QLD

Replacement of timber frame bridge with bebo arch culverts.

#### *Cusack Lane*

Logan, QLD

Design and construction of a viable infrastructure alternative for a road section (3km) in the growth corridor of Logan City.

## KEY CONTACTS

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