**COMPANY PROFILE**

**Flanagan Consulting Group** is a dynamic, multi-disciplinary Consultancy that is proud of its ability to apply innovation, creativity and practicality to every project.

Based in North Queensland with offices in the major centers of Cairns and Townsville, we have a staff of over 30 full-time professionals and are one of the largest Consultancies in the region. The team includes engineers, designers, project managers and planners offering comprehensive services in the fields of civil and structural engineering, town planning and project management.

Our highly experienced team of professionals is available to provide practical solutions for your projects.

The Group’s business model is based on four dedicated Business Units:

- Planning
- Project Management
- Civil Engineering
- Structural Engineering

This structure creates a focused environment where our professionals offer specialist services in addition to having the full support of other Business Units. This allows us to cover a broad range of technical disciplines as an integrated team, providing you with a whole of project solution.

Our clients’ loyalty and support underpins the growth and success of our business. We exceed the expectations of our clients by consistently providing:

- A proactive approach
- Fast response times
- Effective communications
- A thorough understanding of Northern Australian issues and processes
- Integrated services across Business Units
- Innovative solutions

You can be assured of having a complete range of services available to assist the delivery of your project including:

- Concept Planning
- Town and Master Planning
- Strategic Planning
- Transport Planning
- Project Management
- Civil Infrastructure Engineering
- Land Development Engineering
- Structural Engineering

Flanagan Consulting Group has strategic alliances with major consultancies with established presence across the Australia – Pacific region, providing the opportunity to offer specialist services in fields including:

- Carbon Assessment
- Climate Change
- Traffic Planning
- Acoustic
- Geospatial and Visualization
- Consultation
- Finance and Funding Advice
- Economic Assessment
- Risk Assessment and Management

Flanagan Consulting Group is pre-qualified as a consultant to the following Queensland Government Departments:

Department of Main Roads –
- Highway Engineering Level 3
- Hydraulic Design Level 1
- Traffic Engineering Level 2
- Transport Planning Level 2

Department of Public Works –
- PQC Level 3; Industry Best Practice Category

**QUALITY ASSURANCE**

Effective planning is essential to the success of every major project.

Over the years, our Planning Unit has developed long term relationships with many Companies, Private Developers, Corporate Bodies as well as Local, State and Federal Government Authorities.

We attribute our success in these areas to taking an enthusiastic and proactive attitude when working with our clients to achieve positive results. Our Planning Staff have direct experience in strategic, local and state authority planning and the team keeps up-to-date with the latest planning instruments, approaches to development control and strategic planning innovations.

Our Planning Unit is dedicated to providing a diligent and comprehensive service that includes:

**Strategic Planning**
- Master planning
- Statutory planning amendments
- Drafting and review of planning schemes
- Local Government policy development
- Facilitation/Public consultation

**Development Assessment**
- Development applications and approvals
- Response to information requests
- Public notifications
- Negotiations with authorities
- Development assessment
- Development advocacy
- Due Diligence advices

**Concept Planning**
- Integrated land use/Transport/Environmental planning
- Environment and social impact assessments
- Cost analysis and estimates

**Infrastructure Planning**
- Priority infrastructure planning
- Infrastructure planning
- Master planning including traffic/access road hierarchy, drainage management, land use constraints, services planning and staging
- Infrastructure implementation plans
**recent projects**

**project:** Cairns Campus Master Plan  
**client:** James Cook University – Cairns  
**FCG major responsibilities:** Project Management & development of Master Plan including transport, infrastructure and land use planning.

**project:** Development of Townsville Area Zone Plan for the selected Defence Estates.  
**client:** Department of Defence  
**FCG major responsibilities:** Development of Site Analysis Paper, Issues Analysis Paper and Zone Options Report.
Flanagan Consulting Group has a philosophy that Quality of Performance is reliant on both the quality of the definition of project scope (communicating the client’s requirements) and also the quality of conformance to our established internal systems to achieve the client’s outcomes. Therefore, the success of the project is heavily reliant on a detailed understanding of client requirements and Flanagan Consulting Group engaging with the stakeholders, confirming their requirements in a clear and concise manner and ensuring that these requirements are delivered in each and every project.

For this reason, the company focuses on defining the client’s requirements and objectives for the project and providing a comprehensive management service to ensure the best value for money outcome is achieved.

Our Project Management delivery model ensures interface with Approval Authorities, Project Consultants and Contractors during all phases of the project, namely:

- Concept Development
- Feasibility Analysis
- Development Approvals
- Design Development
- Contract Documentation
- Project Implementation

Flanagan Consulting Group Services include the pro-active management of elements such as:

- Scope of works
- Timing / Program
- Budget
- Quality
- Communications
- Risk
- Procurement

**PROJECT MANAGEMENT**

**RECENT PROJECTS**

**Project**: Redlynch Joint Facilities

**Client**: Cairns Regional Council

As lead consultant on this multi-disciplined project, Flanagan Consulting Group was responsible for procuring and coordinating the project Architect, Electrical Engineers, Building Hydraulics Consultants, Sports Field Design Specialists and Court Surfacing Specialists to design a community sporting facility that meets Council’s rigorous standards. FCG was also responsible for the design of the sewerage network, the water supply network (including fire fighting facilities in accordance with Australian Standards), the stormwater drainage measures, earthworks modelling and production of contract specifications for the civil works. FCG also filled the role of project Structural Engineer, designing the amenities block and the concrete slab for the multi-purpose courts.
**Project:** Project Director for the Integrated Transport Study for Kuranda Range and the Southern Cairns Land Use and Transport Options Study

**Client:** Department of Transport and Main Roads

This two year project included:
- Procurement of consultants for the studies
- Coordination of Consultants
- Convening of Working Group and Steering Committee meetings
- Coordination of public consultation during each phase of the studies
- Technical review of consultant reports
- Preparation of the reports to Government

**Project:** Project Management and Contract Administration for the Building the Education Revolution (BER) economic stimulus package.

**Client:** Department of Education and Training

Current commissioned total contract value is $28 million, which includes Resource Centres and Multi-purpose Halls at Innsfail, Ravenshoe, Trinity Beach, Yorkeys Knob, Hambledon, Tolga, Atherton and Freshwater State Schools plus Science and Language Centres at Cairns, Gordonvale and Woree State High Schools. Flanagan Consulting Group also delivered major refurbishments of the libraries at Cairns State High School and Freshwater State Primary School.
Flanagan Consulting Group has extensive expertise in development projects from planning to completion. Our focus is to work closely with our clients in conjunction with our other services units to maximise the final value of the development by optimising the design and addressing any site issues in the most cost effective way. Services provided to clients for land development projects include:

- Feasibility studies and development analysis
- Preparation of development applications and supporting engineering reports, including road network analysis and servicing requirements
- Concept planning
- Master planning studies, including land use constraints, traffic/road hierarchy, drainage management, service planning and staging
- Environmental impact assessments
- Development advocacy
- Design and documentation of civil works
- Tender preparation and analysis
- Project services – compliance inspections and contract administration

Our Development Unit services a broad market comprising of Federal and State Government Agencies, private and multinational developers of both residential and commercial properties.

- Land Development
- Greenfield sites, including subdivisions
- Multi unit and high density developments
- Schools and tertiary education facilities
- Industrial and Commercial sites
- Tourism resorts
- Mining accommodation developments

**FCG Major Responsibilities:** Constraints Mapping, Master Planning and Urban Design Road Design, Water Supply and Sewerage Reticulation Network Modelling, Flood Mitigation Modelling, Design and Documentation of civil works and Project Services (Contract Administration and Compliance Inspections)
**RECENT PROJECTS**

**Residential Estates**
- Oonooba – Townsville
- Bluewater Estate – Trinity Beach
- McKinnon Glen – Edmonton
- Parklands Estate – Kewarra Beach
- North Point – Smithfield
- Palm Groves – Smithfield
- Village Terrace – Redlynch
- Redlynch Rise – Redlynch
- Ferndale Estate – Port Douglas
- Mystic Sands Seaside Village – Balgal Beach
- Sandals – Horseshoe Bay
- Park Lake Estate - Redlands

**Community Titles**
- Residences on The Links – Port Douglas
- The Lakes – Port Douglas
- Buchans Point – Palm Cove

**Rural Residential Estates**
- Sunset Acres – Redlynch
- Freshwater Terraces – Redlynch

**Industrial Estates**
- South Cairns Business Park
- Shaw Business Park – Bohle Plains
- Craiglie Industrial Estate – Port Douglas

Engineers Australia
2010 Awards
Cairns Local Group
Project of the Year
*Moores Gully*
Flanagan Consulting Group has a team of Civil Engineers and Designers offering a full range of services for the development of infrastructure required for the civil, construction, transport and mining industries.

Our expertise includes the requirements for all stages of the development process from concept, design and documentation and supervision of construction, all with consideration of the potential impacts on the natural environment.

We have prequalifications with the following Queensland agencies:

**Department of Main Roads** –
- Highway Engineering Level 3
- Hydraulic Design Level 1
- Traffic Engineering Level 2
- Transport Planning Level 2

**Department of Public Works** –
- PQC Level 3; Industry Best Practice Category

We can offer you a complete range of civil engineering services:

- Land development and subdivisions
- Infrastructure planning
- Highway and arterial road design
- Grade separated intersections, roundabouts and signalised intersections
- Pavement design
- Drainage systems and water quality structures
- Water supply works
- Sewerage works
- Construction phase services
RECENT PROJECTS

Project: Hughenden Sewerage Scheme

Client: RMS Engineering and Construction

The Hughenden Sewerage Scheme had a total budget of $6 million and comprised the design and documentation of 21.4km of replacement gravity mains, 282 manholes, augmentation of two existing pump stations and design and installation of 1 new pump station. The project was delivered as an Early Contractor Involvement (ECI) Design and Construct Contract, with Flanagan Consulting Group providing design services to the project team.

Project: Peninsula Developmental Road Upgrade Strategy

Client: Main Roads

FCG developed a “fit for purpose” road infrastructure link study on the 600km of Peninsula Developmental Road (PDR). The link study considered the ongoing functional requirements for the PDR over a 20 year period and identified the road, drainage and associated infrastructure assets. Recommendations were developed for a strategic level programme of upgrade and reconstruction to achieve the long term goals. This study involved substantial liaison and discussion with Stakeholders including Indigenous Groups, Mining, Transport Industry, Local Government and Main Roads.

Project: Cardwell Range Upgrade

Client: Main Roads

The Bruce Highway Cardwell Range Project comprises 4.2km of road upgrade on difficult terrain, a 185m long viaduct bridging high value rain forest, a 35m deep cut at the crest of the range and an overpass at the North Coast Rail line mixed with rare and endangered mega-fauna and flora. The project represents a significant challenge in balancing the $150 million budget and the highly sensitive environmental values of the site and surrounds of the Hinchinbrook Channel.
Flanagan Consulting Group has highly regarded structural engineering capabilities. Our experienced structural design team’s reputation is built on our ability to provide client focused services driven by innovation, technical excellence, constructability and cost effectiveness.

We adopt a flexible, teamwork focused approach to all projects to achieve engineering solutions that meet Client’s objectives. Our aim is to provide structural solutions that result in the optimum outcomes for every project.

We offer structural engineering design, documentation and construction phase services to a diverse range of private and public clients in the following sectors:

- Residential
- Multi Residential
- Commercial
- Industrial
- Defence
- Mining
- Infrastructure
- Institutional

The team has extensive experience in providing engineering services in urban and rural areas throughout Australia including:

- Provision and review of structural investigation reports
- Preparation of project documentation packages including design and construct contracts
- Management of construction
- Provision of technical input to tender reviews
- Provision of construction compliances services including technical reporting
- Concept Development
- Feasibility Analysis
- Design Development
- Contract Documentation
- Project Implementation

In addition, the Group is a Pre-Qualified Consultant (PQC) to the Department of Public Works in the Level 3; Industry Best Practice Category.

**RECENT PROJECT**

**Project:** JCU Dental Building

**Client:** Building Owner

High commendation, Project of the Year 2010 Engineers Australia – Cairns Local Group

The complex comprises two building wings connected by a services core. The two storey East Wing and basement is a concrete and masonry framed structure housing laboratory and training facilities including dental chairs and simulation units weighing up to 1 tonne each. The three storey central core holds plant and service equipment and boasts the featured foyer area with large spans and high ceilings. The central core roof system is a hybrid arrangement of the cantilevering West Wing floor slab, the partially hung West Wing roof and traditional roof framing.

The West Wing is a concrete and masonry framed structure housing three levels of student and staff support facilities. The roof projects 4.5 metres beyond the building line providing additional coverage to the ground level access and connectivity to the external grid of free standing columns.

JCU Dental Building, Cairns
Pat Flanagan - Managing Director
Pat is an Engineer with over 30 years experience in planning, design, implementation and project management of residential, tourism, commercial, industrial and infrastructure projects for a range of both private and public sector clients. He specialises in project management and development advocacy and has extensive experience in the development approval process in Queensland. Pat has established firm relationships with North Queensland Local Authorities and representatives of State and Federal Government Departments.

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Howard Dickerson - Director
Howard is a Senior Structural Engineer with over 30 years experience in the design, documentation and supervision of commercial, institutional, industrial and residential projects. Howard is a structural expert who has lived and worked in Northern Australia since 1984, specialising in the design of structures for tropical regions. Projects undertaken by Howard have included many award winning buildings and innovative designs and his goal on every project is to provide an elegant, innovative and cost effective structural solution that fulfils the client’s needs.

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Ian McNichol - Director
Ian is a Civil Engineer with over 20 years experience in urban infrastructure, land development, highway and airport engineering. During this time he has gained experience in the fields of project management, contract administration, subdivision, road and traffic planning design, construction and maintenance, bituminous surfacing, road maintenance systems and contracting, airport infrastructure planning, design, maintenance and construction, roadside vegetation management contracting and consulting.

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