

Brian Flood

Associate

Principal Engineer

QUALIFICATIONS AND AFFILIATIONS

Bachelor of Engineering, University of Ulster,
Northern Ireland

Member Institute of Engineers New Zealand
Chartered Professional Engineer

International Professional Engineer



PROFILE

An Associate of Woods since 2008, Brian has over 25 years' professional experience as a civil engineer. He has worked on a wide variety of master planned developments and infrastructure projects throughout New Zealand, China and Europe. He is frequently sought for complex multi-disciplinary projects, often as project leader.

Brian specialises in the delivery of site and route selection for a range of infrastructure, energy and utility projects, providing integrated design solutions and mitigation strategies in both urban and rural locations. He is also an experienced and recognised expert witness, presenting evidence before council, the Environment Court and Board of Inquiry hearings.

EXPERTISE

- Project Management
- Civil/Infrastructure Design
- Contract documentation, estimation and administration
- Infrastructure planning and co-ordination
- Client representation

BACKGROUND

2002 – Present	WOODS
2001 – 2002	City Design Limited
1993 – 2001	TSE Group Limited
1990 – 1993	O'Keefe Construction Limited
1990 – 1993	Chanton Engineering Limited
1986 – 1987	WAM Civil Engineering Limited

KEY PROJECTS

LONG BAY DEVELOPMENT, NORTH SHORE CITY (2003 – ONGOING)

Long Bay is a comprehensively designed 250 hectare coastal subdivision. Brian leads the team who manage the masterplanning process; resource consenting, engineering design, land surveying and project management.

PEGASUS TOWN, CANTERBURY (2005 – ONGOING)

Pegasus Town is a landmark Greenfield development in the Waimakariri District, north of Christchurch in North Canterbury. This entirely new town is spread over 400 hectares which once completed, will be the domicile of 5,000 residents.

Brian was the lead civil engineer responsible for all infrastructure assessment and civil engineering for the first 7 stages of the project. Currently 11 stages have been fully completed and titled; two stages remain to complete.

LAKEVIEW ACUTE DIAGNOSTIC WARD, NORTH SHORE HOSPITAL (2010-2011)

The Lakeview Acute Diagnostic Unit involved the construction of a new three level building adjacent to North Shore Hospital's existing main building. It has a total floor area of 5000 square meters. Brian was the Principal Engineer and Project Manager for this project. In addition, Brian has also provided similar services to the Waitemata District Health Board for a number of similar projects within the Auckland region.

HARROWGLEN, ALBANY, NORTH SHORE (2007)

Brian carried out the detailed design, consenting and contract administration for this complicated land development project. This project included the construction of approximately 1.8Km of local and collector roads together with associated drainage and infrastructure. Brian was also responsible for negotiating and obtaining approvals from the neighboring property owners affected by the proposal, in particular as a result of a new tee intersection installed onto the busy Oteha Valley Road. The site was complicated by steep terrain and to achieve the required outcomes Brian developed innovative road design solutions including split level carriageways and the extensive use of reinforced earth, keystone, timber pole and gabion retaining wall structures.

SCHNAPPER ROCK ROAD UPGRADE, NORTH SHORE (2008)

On this project Brian was responsible for the detailed design and contract administration for the upgrade of a two lane rural road into a busy urban collector road. The project involved the widening of the existing carriageway complete with kerb and channels and was situated along a narrow ridge line. Traffic management was a major factor in the design and administration of the project due to the rapidly increasing traffic numbers from development in the area. It was imperative that the road remained open at all times. For the design Brian developed a design sequence and methodology that enabled this to be achieved.