COMPANY PROFILE

RoadNet was established in 1995 by Brian Kerwick and Alan Deutschbein in Port Macquarie NSW. Both Brian and Alan had long careers within NSW RMS (previously DMR and RTA).

Each brought their own experience to the business, Brian specialises in Transport Planning and Traffic Engineering, and Alan in Road Design and Construction, Pavements and Drainage.

In 2004 Brian opened the second office in Palm Beach, QLD. Alan retired from directorship of the company, but still provides valuable experience to RoadNet on a part time basis.

In 2012, Brett Franklin was appointed as General Manager.

RoadNet provide a diverse range of Civil and Traffic Engineering solutions to Governments, Contractors and Developers.

RoadNet’s key capabilities are:-

✓ Civil Road Design
✓ Traffic Engineering
✓ Traffic Signal Design
✓ Traffic Guidance Schemes
✓ Traffic Control Plans
✓ Traffic Management Plans
✓ Road Safety Audits
✓ Custom Sign Design
✓ Road Pavement Design
✓ Project Management / Contract Admin
✓ Skill Hire

We employ 20 staff across our NSW and QLD offices, including Civil Engineers, Traffic Engineers, Road Designers, Draftsmen and Cadet’s.

We take pride in our role in the community of employing juniors and providing on the job training and ongoing professional development for all our staff.

RoadNet’s goal is to continually exceed our clients’ expectations. Our Quality Management Systems are certified to ISO 9001.

RoadNet is registered on many local and state government panel contracts throughout NSW and QLD.

- QLD DTMR Prequalified
- QLD Public Works Panel
- Gold Coast City Council Traffic Signal Design
- Gold Coast Water Engineering Consultancy
- NSW Local Government Procurement
- NSW Health Infrastructure Design Panel
- NSW RMS Design Panel
- NSW RMS Road Safety Audit Panel

We offer competitive rates and personalised service with timely delivery.
ROAD DESIGN
RoadNet’s senior staff have extensive experience in Highway and Intersection design.

Projects include major highway intersection and interchange upgrades, including stormwater, pavement, traffic signals and street lighting designs.

RoadNet’s staff are trained and experienced in the use of multiple software packages (MXROAD, 12D, CivilCAD, AutoCAD, AutoTURN, DRAINS, CIRCLY, Perfect Lite).

RoadNet is able to support developers with applications and act as client representative to negotiate with State Road Authorities, namely NSW RMS and QLD DTMR.

In addition to designs, we can provide complete packages for NSW RMS Works Authorisation Deeds (WAD’s) for work on NSW State Controlled Roads.

INTERSECTION DESIGN – COMPLETE SERVICE
RoadNet are specialist traffic engineering consultants and are able to integrate a complete intersection design service with traffic modelling, civil design, traffic signal design and road lighting design.

TRAFFIC SIGNALS
RoadNet has extensive experience in signal design for NSW RMS, QLD DTMR and local QLD councils.

ROAD LIGHTING DESIGN
RoadNet is a Level 3 Accredited Service Provider (ASP) in NSW. We provide Rate 3 lighting designs for QLD. We generally provide lighting designs to accompany our civil or signal designs.

PROJECT EXPERIENCE

Pacific Highway (Sapphire to Woolgoolga) $705 M
Client – Leighton Fulton Hogan Joint Venture
Scope – Detail Design of temporary highway works.

Civil, Stormwater, Pavement, Temp Traffic

Panorama Drive, Thornlands $7 M
Client – Redland City Council
Scope – Detail Design of 1.5km of urban arterial duplication.

Civil, Signals, Lighting, Stormwater

Emerald Corridor Study $10 M
Client – Qld TMR (c/o Bitzios)
Scope – Concept Design for urban corridor through town

Concept Civil Design

Tomato Farm, Guyra $0.75M
Client – Tomato Exchange Pty Ltd
Scope – Concept and Detailed Design for rural highway intersection.

Concept and Detailed Civil Design

Ewingsdale Road, Byron Bay (Roundabout) $1.5 M
Client – NSW Government
Scope – Detail Design for rural roundabout at sports access

Civil, Lighting, Stormwater, Pavement

STORMWATER
RoadNet provides analysis of both piped and open channel stormwater networks. Services include survey, DRAINS modelling, reporting and culvert design.

PAVEMENT DESIGN
We provide flexible and rigid pavement designs and regularly provide pavement designs for use on temporary traffic switches and sidetracks.
CONSTRUCTION TRAFFIC MANAGEMENT

RoadNet has extensive experience in the planning and design of Traffic Control Plans (TCP), Traffic Guidance Schemes (TGS) and Temporary Alignment Designs for road construction projects.

We import accurate survey and design files (MX Road and/or 12D) and use AutoCAD to prepare detailed scaled drawings.

We maintain close contact with the construction traffic manager to provide technical advice on the best ways in which to manage traffic taking account of the limitations imposed by the contract specifications. This process often results in improved staging, reduced level of risk and cost savings.

Associated services include the preparation of Traffic Management Plans (TMP) and road safety audits at design and implementation stages.

Personnel are formally qualified to select, modify, design and audit designs in both NSW and QLD. (RMS Red Card, RMS Orange Card, DTMR MUTCD Levels 2, 3 & 4 and RPEQ certification).

RoadNet is accredited with DTMR for Traffic Management Registration Scheme (#0030).

PROJECT EXPERIENCE

Riverside Expressway, Brisbane (Bridge Maintenance)
Client – QLD Department of Transport and Main Roads (DTMR)
Scope – Temporary Traffic Management for weekend closures

Pacific Highway Upgrade – Sapphire to Woolgoolga
Client – Leighton Fulton Hogan Joint Venture
Scope – Detail Design of temporary highway works

Pacific Highway Upgrade – Kempsey Bypass
Client – Leighton Contractors
Scope – Skill Hire (Senior Civil Engineer as Traffic Manager)

Pacific Motorway Upgrade – Nerang to Worongary
Client – Fulton Hogan
Scope – Temporary Designs and Traffic Guidance Schemes

Ipswich Motorway Upgrade – Ipswich Logan Interchange
Client – Leighton Contractors
Scope – Temporary Designs and Traffic Guidance Schemes

Bruce Highway – NDRRA Fitzroy Region
Client – Leighton Contractors
Scope – Construction Staging and Traffic Guidance Schemes

Warrego Highway – Helidon to Withcott
Client – Fulton Hogan
Scope – Staging, Temp Design and Traffic Guidance Schemes

Gold Coast Rapid Transit (GCUH Station Shell)
Client – Leighton Contractors
Scope – Staging, Temp Design and Traffic Guidance Schemes

Wiggin Island Rail Project – Rocklands to Stanwell
Client – Leighton Contractors
Scope – RUMP and Traffic Guidance Schemes
TRAFFIC ENGINEERING

REPORTS
RoadNet has undertaken a wide range of Traffic Impact Assessments and Traffic Studies, including:
- Rezoning
- Town centres
- Shopping Centres
- Quarries
- Schools
- Industrial
- Subdivisions
- Residential Towers
- Hotels / Taverns
- Retirement Villages
- Medical Facilities
- Road Network Analysis (Macro and Micro)

Our staff have specialist experience with completing similar assessments for major construction projects:
- Traffic Management Plan (TMP)
- Road User Management Plan (RUMP)
- Haulage Route Assessment

RoadNet has provided expert traffic and transport planning support for major projects on NSW Mid North Coast:
- Area 14 – Lake Cathie (Port Macquarie, NSW)
- Area 15 – West Haven (Port Macquarie, NSW)
- Brimbin New Community (Taree, NSW)

INTERSECTION MODELLING
RoadNet uses SIDRA INTERSECTION to undertake intersection modelling and analysis. SIDRA is extensively used throughout the consulting world and is widely accepted by road authorities throughout NSW and QLD. SIDRA is also used for modelling traffic signal timing optimisation.

MICRO-SIMULATION MODELLING
RoadNet uses in-house expertise and consultant capabilities for AIMSUN and PARAMICS modelling. Micro-simulations are a useful tool to dynamically illustrate the effects on a road network.

MACRO STRATEGIC MODELLING
RoadNet provides area wide modelling at a strategic level using EMME and TRANSCAD, with both in-house experience and our associates.
ROAD SAFETY AUDIT

RoadNet specialises in Road Safety Audits. We have 14 Road Safety Auditors accredited with both NSW RMS and QLD DTMR.

We are regularly engaged to conduct audits on major road construction projects. Recent examples include:

- AirportLink Brisbane
- Port of Brisbane Motorway
- Pacific Motorway Upgrade
  - Nerang to Worongary
  - Fitzgerald Ave to
- Pacific Highway Upgrade
  - Tintenbar to Ewingsdale
  - Nambucca Heads to Urunga
  - Sapphire to Woolgoolga
  - Herons Creek to Stills Rd
  - Kempsey Bypass
  - Bonville Deviation
  - Taree to Coopernook
  - Coopernook to Herons Creek
- Hunter Expressway – F3 interchange
- Ipswich Motorway Upgrade – Ipswich Logan Interchange
- Warrego Highway – Helidon to Withcott

Our auditors are also qualified to audit Traffic Control Plans and Traffic Guidance Schemes for roadwork sites:

- DESIGN/AUDIT Traffic Control Plans (NSW RMS - Orange Card).
- TRAFFIC MANAGEMENT (QLD DTMR – MUTCD Level 4 Card).

RoadNet has carried out many Route Safety Studies and Road Safety Audits that focus on improving road safety and reducing the number and severity of crashes.

- QLD DTMR National Highway Route Strategy Planning
  - Cunningham Highway (Cunningham’s Gap to Warwick) 80km
  - New England Highway (Warwick to Wallangarra) 96km
  - Gore Highway (Toowoomba to Millmerran) 79km
  - Gore Highway (Millmerran to Goondiwindi) 141km
- NSW RMS Recreational Motorcycle Routes
  - Bruxner Highway (Casino to Tenterfield) 128km
  - Summerland Way (Kyogle to QLD Border) 64km
  - Lions Road (The Risk to QLD Border) 24km
  - Kyogle Road (Uki to Kyogle) 55km
- Pacific Highway, Hexham to Johns River.
HAULAGE ROUTE ASSESSMENT

PROJECT EXPERIENCE

Wulkaraka Heavy Haul - Wulkara to Port of Brisbane
Client – McAleese Transport
Scope – Detailed route assessment and swept path analysis for a range of oversized loads

Wulkaraka Heavy Haul – Wulkaraka to Newcastle
Client – McAleese Transport
Scope – Detailed route assessment and swept path analysis

Adelaide Route Survey
Client – McAleese Transport
Scope – Detailed route assessment and swept path analysis

RoadNet has specialist experience in route assessments for heavy haulage vehicles and the transport of oversized objects through built up areas.

We provide detailed survey of the site and analysis of the route using AUTOTURN to ensure that swept paths are acceptable and that the oversized vehicles can navigate safely throughout the route.

Our experienced staff provide fast and accurate advice on your proposed routes.

Please visit the link below to see video of the Wulkaraka to Port of Brisbane vessel shift, which was the largest vessel shift in Queensland.

https://www.youtube.com/watch?v=DDmcvdYFPIc