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TTW

SYDNEY MELBOURNE CANBERRA JAKARTA



Traffic

Your Partner in Engineering

Traffic with TTW

We hold over 20 years of long-term partnerships with both public and private institutions, offering an integrated suite of traffic and transport engineering services. Our TTW Traffic Team has a superior track record in providing engineering studies and investigations for hospitals, educational facilities, public institutions, shopping centres, residential developments, town centres, transport hubs, and industrial sites.

No matter the project size, type, or complexity, our engineers focus on delivering high-quality advice and sound solutions. We bring creativity and innovation to your project from planning through to design and implementation.

Our core **TRAFFIC CAPABILITIES** include:

- Traffic Impact Assessments
- Intersection Modelling
- Road Safety Audits
- Design Advice
- Construction Traffic Management Plans
- Sustainable Transport Plans

“Our traffic team do not just undertake ‘number crunching’ to provide data. We investigate options which often involve doing design to ensure the most optimum and practical outcomes.”

Paul Yannoulatos,
Technical Director



Front cover and bottom image:
Ashfield Commuter Car Park



1 Denison Street, North Sydney
Construction Phase

Traffic Impact Assessments

TTW provides thorough documentation and reporting to accompany development applications and satisfy authority requirements.

We have extensive experience in preparing the reporting and documentation that provides the approval authority with all the information and analysis to consider the project favourably.

Projects range from individual residential housing at local council level, through to State Significant Development Applications for hospitals and schools.

RUSSELL LEA PUBLIC SCHOOL

The redevelopment of the school involved upgrading an existing school to accommodate up to 600 students. TTW provided a Traffic Impact Assessment to achieve development approval.



Intersection Modelling

TTW employs the latest technology to optimise intersection performance.

Inefficient and poorly-planned intersection configurations frustrate both authorities and roads users. Our engineers utilise SIDRA (intersection modelling software) to identify issues before they occur, or to resolve existing problems on the road network.

Our methodology compares and reviews alternative treatments (including signals, roundabouts, and give way/stop controls) for single intersections or local networks, advising the optimal solution to reduce congestion and improve traffic flow.

SMALLS ROAD PUBLIC SCHOOL

At a challenging location within its residential catchment, the new school required complex analysis of multiple intersections across the local area. Detailed consultation with state authorities ensured a thorough coverage of the expected traffic impacts, and resolved the modelling outcomes and treatments required for this State Significant Development.



Road Safety Audits



At any stage in a project from concept to completion, our qualified road safety auditors provide expert insights to minimise risk and provide a safer environment for the end user.

Our road safety audits can identify issues related to sight distance, road geometry, lighting, and pedestrian-vehicular conflicts.

WYONG HOSPITAL REDEVELOPMENT

The new hospital provides a \$200 million upgrade to clinical and emergency facilities in the region. In addition to concept design services, our TTW Traffic team undertook a fully independent audit of the proposed design and other road-related interfaces. The audit resulted in design amendments such as line marking and signage changes to improve pedestrian safety and vehicle movements.

We understand that poor design can impact safety.

Design Advice

Our team ensures that traffic-related designs are practical, workable, and user-friendly from paper to pavement.

During the design process, our engineers can assist in the development of car parks, loading docks and access points to improve and optimise the design.

Detailed vehicle analysis ensures that swept paths and vertical geometries are not only compliant but tailored to serve the users of the site.

SYDNEY FOOTBALL STADIUM

The redevelopment of Sydney Football Stadium will provide a modern, world-class sporting and entertainment venue for NSW. TTW has provided detailed design advice for vehicle access and movements around the site. Requirements include semi-trailer access for concert events, large deliveries for catering, and specialised analysis of grounds maintenance vehicles.



Construction Traffic Management Plans



Our expert engineers work closely with clients to develop plans for managing traffic and mitigating disruption during on site works, with an aim to minimise risk, delays, and inconvenience to users.

We investigate all elements of the construction process including site access controls, construction vehicle management, and local traffic impacts.

Our team will develop a specific Construction Traffic Management Plan (CTMP) that meets local government requirements and assists the builder with demolition plans and construction. Traffic Control Plans (TCP) can be prepared when required.

CAMPBELLTOWN HOSPITAL REDEVELOPMENT

The redevelopment includes provision of a major new multi-storey and at-grade car parking facilities. Our TTW Traffic team provided Construction Traffic Management Plans and Traffic Control Plans to the contractor of the sites across various works stages. Tight areas of the site were required to be navigated by construction vehicles, and swept path analysis demonstrated the site layouts and access routes required for safe construction operations.

Sustainable Transport Plans

Our team assists in identifying and developing strategies to improve usage of sustainable and healthy travel modes.



As our cities are becoming more congested therefore, transport strategies can assist in reducing car volumes. Public transport, walking, and cycling are often a good alternative for users while providing health and congestion benefits.

Our TTW Traffic team can provide a variety of purpose-built planning and operational documents, including Green Travel Plans and Transport Access Guides. We provide consultation with local authorities to gain access to improved services and infrastructure.

SHORE PHYSICAL EDUCATION CENTRE

In addition to undertaking the traffic analysis and design for the overall development, TTW prepared a Green Travel Plan for the project. The works included travel surveys with staff and students, and identification of travel demand management strategies for the future of the school. An analysis of postcode data provided the basis for specific strategies to address the wide catchment area across Greater Sydney.

Community & Cultural

We hold long standing and valued partnerships with private and public authorities in designing community spaces.



Sydney Football Stadium



Australian War Memorial



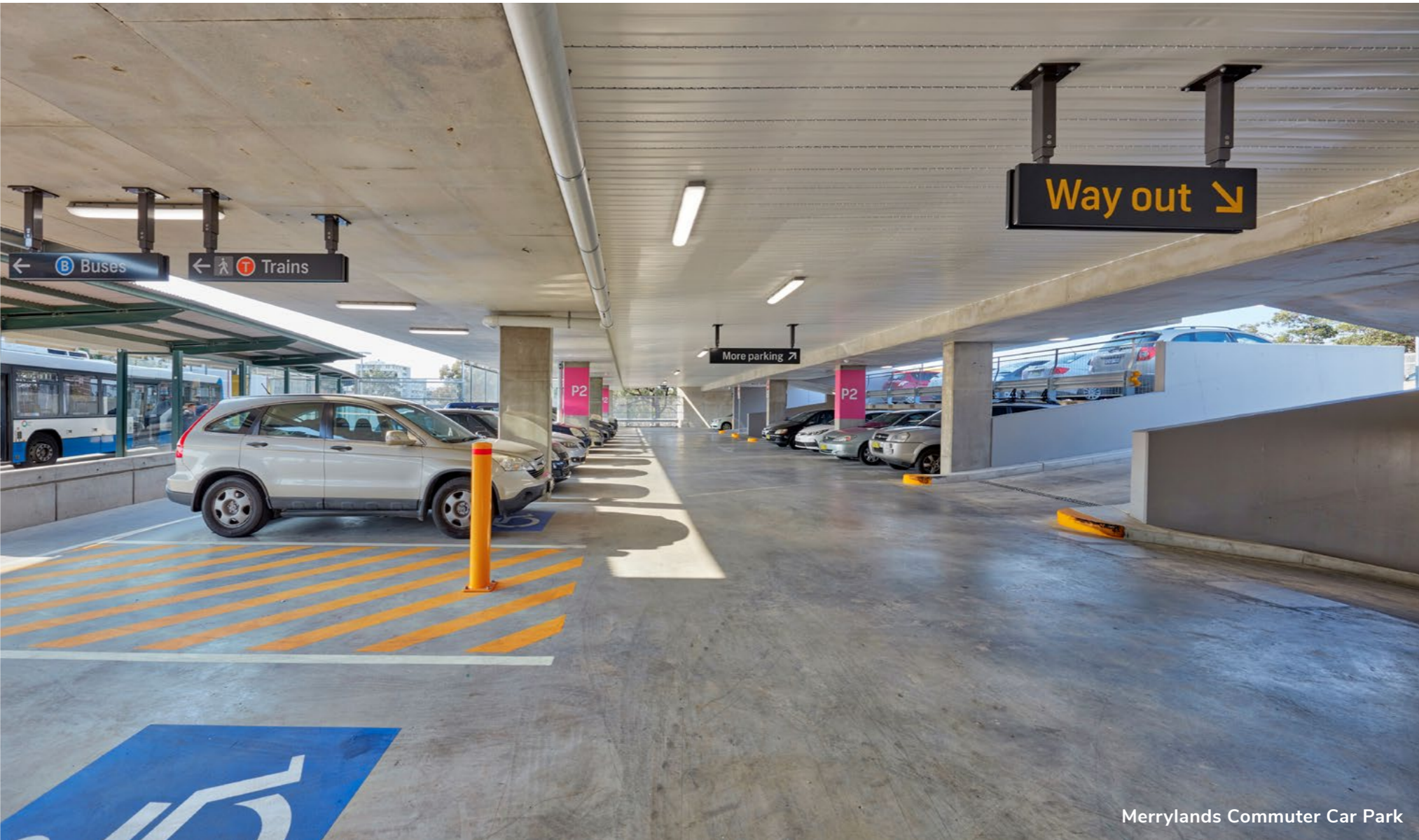
Ryde Central



PCYC Wagga Wagga

Infrastructure

We are proud of the strong partnerships we have built with local and state government.



Residential & Hotels

Our focus is to support busy urban communities, redevelopment, unique sustainable housing and multi-storey complex.

The Esplanade, Norwest



Site 9A, Portman Road



Blue at Lavender Bay

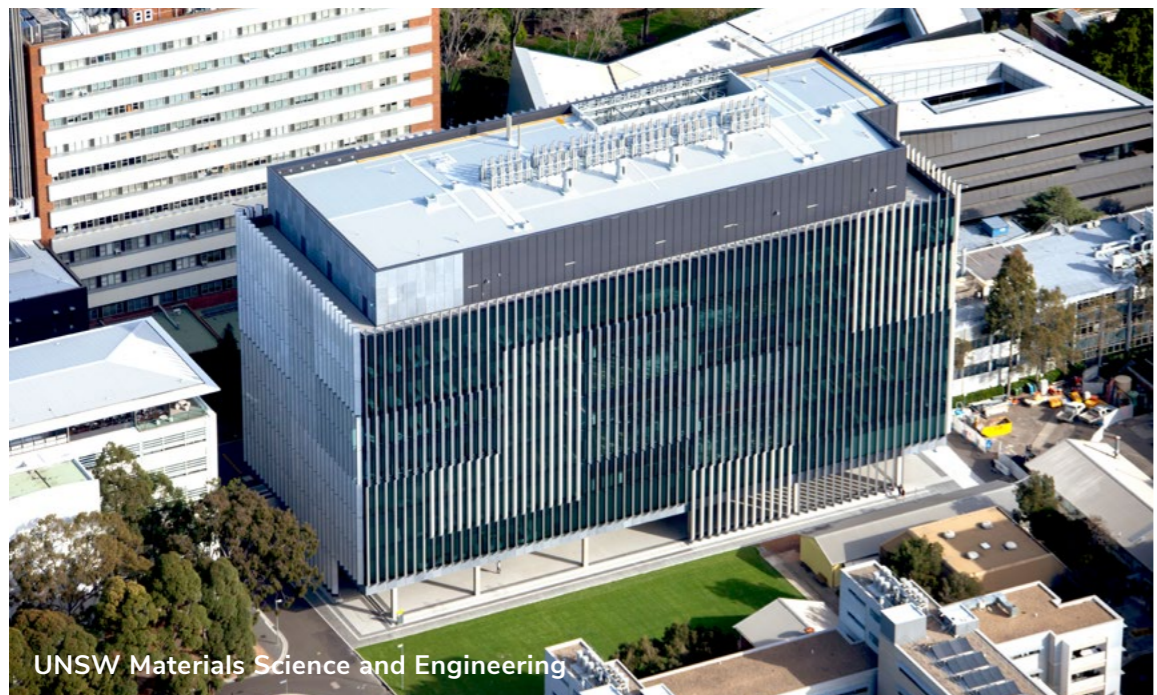
Health & Aged Care

We are industry leaders in providing engineering solutions within Hospitals, Aged Care and Research sectors.



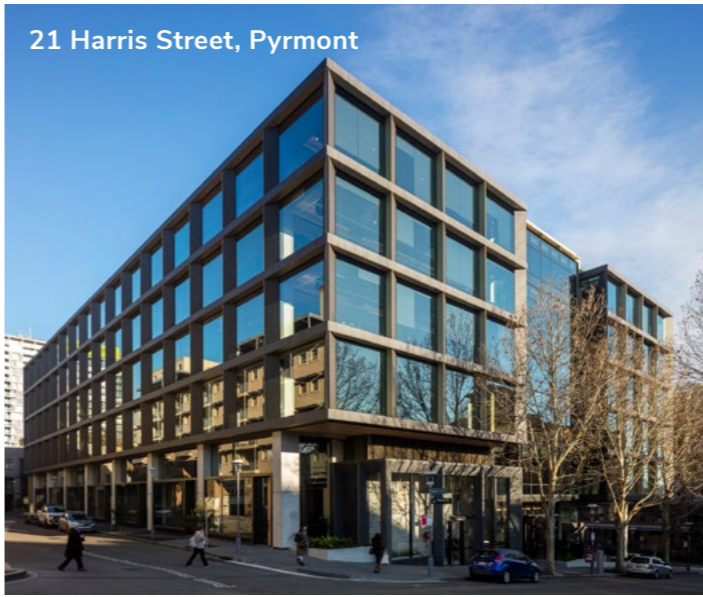
Education

In-depth knowledge is paramount to overcome the challenges of operating in live environments.



Commercial & Mixed Use

We use the latest technologies and implement smart traffic methodologies.



Our Team

“I’ve been working with Paul and the team at TTW for over 18 years. Over the years TTW have delivered innovative solutions on a diverse range of technical and complex projects and found the design team easy to collaborate with. I find them focused on good design outcomes and cost efficiencies and highly recommend Paul and the wider team’s full services.”

Nick Kordas
Executive Design Manager,
Roberts Pizzarotti

