



CV – KARL ERDMANIS

Career Highlights

Karl has more than 25 years' experience in civil engineering, specialising in earthworks and bridge structures for some of Australia's largest road, rail and bridge construction projects including Northconnex, Sydney Metro, Northwest Rail Link, the South Road Superway in South Australia and Brisbane's Airport Link & Northern Busway.

Karl brings extensive experience designing and constructing a variety of bridges, structures and civil works within divergent locations and environments. He has first-hand knowledge in delivering complex projects in highly constrained locations under heavy traffic – he played a key role in integrating the construction of the 750m flyover in tandem with a new fast diamond intersection at Brisbane's Airport Upgrade, and directly managed the opening of the Northconnex Tunnel to traffic in Sydney.

Many of the major projects Karl has helped to successfully deliver are within or adjacent to major transport corridors. Karl appreciates that considered and considerate planning is required to mitigate impacts to motorists (without delaying the delivery program) to uphold project support and client reputation.

Karl also brings a robust understanding of earth materials to every project, having spent his early career as a Senior Geotechnician undertaking a range of testing, including compaction, CBR, PI and grading on multiple road projects.

Further, he is widely regarded for his commitment to productive and positive client and stakeholder relations, continually seeking and promoting a 'one team' ethos across projects.

Key skills & capabilities

- Expertise in designing and delivering major projects comprising road, rail, bridges and tunnels
 - Forensic-level understanding of project interdependences and proven record of working collaboratively to meet critical milestones to uphold overall program
 - Broad civil infrastructure experience – typically within constrained environments – across multiple rail and road projects
 - Strong commitment to community and stakeholder engagement
 - Highly regarded for exemplary client relations and actively seeking to identify true project drivers and priorities to ensure client satisfaction
-

Summary of experience

- **Sydney Metro – Western Sydney Airport (SSTOM) Tender**, Sydney | 2021-2022 | \$5.5B | PPP
 - **Inland Rail Tender G2K Package**, Brisbane | 2020-2021 | \$5B | PPP
 - **Northconnex**, Sydney | 2018-2020 | \$2.6B | D&C
 - **Gocup Road Upgrade**, Tumut | 2017 | \$25M
 - **Downer Infrastructure**, NSW Civil Operations Manager | 2017 |
 - **Sydney Metro Northwest RTRF Stabling Yard**, Cudgegong, NSW | 2016 | \$200M | D&C
 - **North West Rail Link Tunnel and Stations Civil Works**, Sydney | 2013-2015 | \$1.1B | D&C
 - **South Road Superway**, Adelaide | 2011-2013 | \$812M | D&C
 - **Airport Link – Airport Roundabout Upgrade (ARU)**, Brisbane | 2009-2011 | \$4.8B | PPP
 - **Kingston Foreshore Development – Harbour Civil Works**, Canberra | 2008-2009 | \$22M | D&C
 - **Leura Bypass Upgrade / Leura to Katoomba**, RMS | 2004-2007 | \$30M | D&C
 - **Woronora Bridge / Iron Cove Bridge / Liverpool to Parra Transitway**, RMS, Sydney | 1997-2003 |
-

Qualifications

Bachelor of Engineering (Civil & Environmental), University of Technology, Sydney



Relevant experience

SSTOM Tender Sydney 2021 to Present	\$6B	Project Facts
Construction Director - CPB		Rail, Civil & Tunnel Infrastructure
Reporting to Bid Director, responsible for the development and submission for the D&C component of the Tender		High level of Integration required between multi-disciplines
Key outcomes and achievements		(Civil/Building/M&E/Rail), Test & Commissioning and Operational Maintenance
As Construction Lead, managed a team of multi disciplined work functions, to produce a conforming bid which included all D&C disciplines and O&M requirements in a PPP contract scenario		
Inland Rail Tender Brisbane 2020 to 2021	\$5B	Project Facts
Structures Manager - CPB		G2K Package
Responsible for the development and submission for the D&C of 55 x structures along the alignment		Rail, Civil & Tunnel Infrastructure
Key outcomes and achievements		
Worked in close collaboration with all discipline leads to provide a cost-effective solution for a wide range of bespoke bridge structures and locations		
Northconnex Sydney 2018-2020	\$2.6B	Project Facts
Construction Director / Construction Manager - Bouygues		9km-long twin tunnel motorway
Responsible for the completion of all civil works including tunnels construction, fitout of tunnels, M&E installation and opening of the project, concurrently managing a large number of disciplines and delivering a major piece of infrastructure in the heart of a major metropolitan area		Australia's deepest road tunnel – 90m at deepest point, average 60m depth
Key outcomes and achievements		7 bridges and structures
Seconded into the project in its final two years to improve integration among stakeholders and project disciplines and ensure the project was delivered on time and budget. Karl excelled within this role and achieved all requirements.		
Directly planned and successfully managed the final road opening of the tunnel for traffic.		
Downer Infrastructure NSW 2017		Project Facts
NSW Civil Operations Manager		Key Contract Negotiation & Resolution
Responsibility for the day to day running and P&L of a multi-disciplinary business unit		Secured new Contracts with TfNSW
Key outcomes and achievements		Introduced new Cost Management Procedures
During his time, successfully negotiated and resolved outstanding contractual claims with both TfNSW & RMS. Also secured new Contracts for the business and successfully implemented a range of new deliverables for key performance indicators		



Sydney Metro Northwest RTRF Stabling Yard NSW 2016	\$200M	Project Facts
Construction Manager		Centre of operations for the North West Rail Link network
Overall responsibility for the management of site construction for civil, rail & building works at the Cudegong RTRF facility, this included major earthworks and construction of two road bridges.		Provides stabling and depot facilities for the network
Key outcomes and achievements		3 x bridges and structures
The client, TfNSW, was extremely satisfied with the project delivered – on time and on budget		
Easy Access Station Upgrade NSW 2015-2016	\$84M	Project Facts
Senior Project Manager / Design Manager		Major accessibility upgrades at four stations on the Sydney Trains network
Managed the design submission, coordination and approvals for the four stations through client TfNSW and then directly managed construction of Croydon, Blacktown & Ashfield stations.		New lifts, stairs, overbridge and footbridges
The role as Design Manager afforded an intricate understanding of approval processes, protocols and priorities for rail operators.		Accessible toilets and waiting areas
Key outcomes and achievements		'Kiss and ride' areas, bus interchange areas, taxi ranks
Successfully delivered all design milestones to achieve site access and managed the installation of new high voltage assets while working in and around an existing live network.		
Also met key milestones for the installation of critical temporary works within a live rail corridor, all requiring extensive negotiation with the client for sequence works and rail possessions.		
North West Rail Link (TSC) Sydney 2013-2015	\$1.1B	Project Facts
Senior Project Manager – Norwest & Showground Station Caverns		15.5km twin rail tunnels
Responsible for the management and delivery of site construction for two station boxes, including remediation of contaminated soils across the works and bulk excavation of approx. 200,000 BCM of spoil.		Excavation and civil works for five new stations
Key outcomes and achievements		Deep excavations with specialist ground support
Successfully managed two disparate sites, with Norwest being critical to the wider NWRL program and Showground a TBM support facility, both delivered ahead of program.		Road header mined tunnelling operations
Achieved all critical path milestones ahead of TBM arrival despite multiple geotechnical and weather challenges.		



South Road Superway South Australia 2011-13		\$812M	Project Facts
Senior Project Manager			4.8km roadway corridor
As Project Manager, was responsible for all civil, deck fit out & Northern Interchange works for this 4.8km non-stop, multi-lane corridor connecting north and south Adelaide and including the construction of a 2.8km elevated roadway (10m above existing roadway supported by 68 concrete piers), one of the longest in Australia and South Australia's first.			2.8km dual carriageway elevated structure
Managed a team of 20 engineers and supervisors across a range of disciplines.			Significant local road upgrades to enhance local accesses
Key outcomes and achievements			
Karl and his team identified construction solutions which minimised the effects on the operation of the Wingfield rail line they were working above and also managed works immediately adjacent to the Barker Inlet Wetlands to uphold water quality and ecology.			
Also minimised disruption to adjoining businesses and land owners through collaborative management of access requirements and construction works.			
The project received excellent client feedback on values, culture and a one team approach.			
Airport Link and Northern Busway Brisbane 2009-2011		\$4.8B	Project Facts
Project Manager – Ground Civil Works			6.7km Airport Link toll road, including a 5.1km tunnel,
Managed all ground civil works – earthworks, stabilised granular pavement, asphalt, stormwater, signals, lighting, ITS, permanent signage, retaining walls, gantries, noise walls, landscaping, traffic management – for the Airport Roundabout Upgrade under intense traffic volumes.			2.8km of underground ramp connections
Key outcomes and achievements			3km Northern Busway, half underground
Managed the construction of a new fast diamond signalised intersection to replace an existing signalised 8-way roundabout			Airport Roundabout upgrade
Worked in close collaboration with TMR to develop and implement critical construction traffic management plans to reconstruct Brisbane's busiest intersection on the Gateway Motorway			
Demolished two Gateway Motorway bridges which spanned over a live major traffic intersection where East-West Arterial intersected with the Gateway Motorway			
Prior to bridge demolition, managed workshops with the Joint Venture, temporary design consultants & DTMR and developed detailed work method statements for the demolition process in accordance with the methods developed during the workshops, and then managed the actual demolition of the structure			
Managed, removed and disposed waste from two areas of EPA identified contaminated materials			
Undertook substantial stakeholder and community engagement to mitigate the impacts to local communities and motorists			
Successfully completed the works 12 months ahead of program.			