

# BUILT TO HELP YOU LIVE UP TO YOUR POTENTIAL

DEVELOPER : Dorebin City Council  
MAIN CONSTRUCTION COMPANY : Kane Constructions  
CONSULTANTS : Root Partnerships, Warren and Mahoney, WT Partnership, Taylor Thomson Whitting (TTW), Integral Group and ARUP  
CONSTRUCTION VALUE : \$59 million  
TYPE : Sports and Leisure

Kane Constructions was awarded the \$59 million Design and Construct contract for the Northcote Aquatic and Recreation Centre (NARC), an ambitious project set to transform the concept of aquatic, fitness and wellness facilities.

**The Northcote Aquatic and Recreation Centre (NARC) renewal project is a leading example of sustainable and community-centric design.**

With its innovative features, commitment to energy efficiency, and 6 Star Green Star rating, NARC will redefine the concept of aquatic and fitness/wellness facilities. Through close collaboration with the community and indigenous representatives, NARC embodies inclusivity and cultural sensitivity.

As a flagship project in the City of Darebin's climate action efforts, NARC sets a new standard for environmentally sustainable development. Kane Constructions' involvement further solidifies their reputation for excellence, expertise and delivering high-quality construction projects.

"Council committed to achieving a 6 Star Green Star rating in response to their Climate Emergency Plan," said Project Manager, Sebastian Angus. "This is a demanding target for an aquatic centre, which is traditionally very energy-intensive, and has necessitated innovation across all disciplines, including structural and civil."

The design process involved close collaboration with the community and indigenous representatives to ensure a respectful and inclusive space. From the enhanced outdoor pools to the fitness and wellness facilities, NARC's vision embraces innovation and sets a new standard for environmentally sustainable projects.

Driven by the commitment to sustainability and achieving a 6 Star Green Star rating, NARC includes a range of stand out energy-efficient design choices, such as the elimination of gas for pool heating

and space conditioning, and the selection of glulam timber structures and ceilings. The incorporation of large-scale photovoltaic arrays and other sustainable techniques further contributes to minimising the building's carbon footprint.

Mass timber features strongly within the main pool hall, the roof structure is framed with large double Glulam timber beams that conceal ventilation ducts and services. An innovative timber product 'Dowel Laminated Timber (DLT)' is being adopted for the pool hall's structural ceiling, combining structural, acoustic and thermal properties, while achieving a unique architectural finish.

"Programming efficiencies were employed to optimise the drying and curing periods of the elongated pools," said Sebastian. "During each phase we ensured that no time was wasted by completing all overhead superstructure works (structural steel, precast and timber beams)."

A number of measures were taken to combat the corrosive environments, such as chlorinated air, by implementing quality

assurance processes to identify any dissimilar metal issues, ensuring air-tightness barriers were in place, epoxy paint for all structural steel elements and positive air introduced for all ceiling cavities.

"It was a necessity to ensure that the entire facility is completely air tight as a requirement for optimum thermal performance (6 Star Green Star) and mechanical system (Open Balance)," said Sebastian.

Kane Constructions is a multi award winning, privately owned commercial construction company active in all sectors of the industry.

With a turnover in excess of \$1 billion and over 450 full time employees, Kane Constructions operate throughout the east coast of Australia and overseas from offices in Melbourne, Sydney, Brisbane, Sunshine Coast and Canberra.

**For more information contact Kane Constructions**, Level 9, 510 Church Street, Cremorne VIC 3121 phone 03 8420 1200, email [viccontact@kane.com.au](mailto:viccontact@kane.com.au), website [www.kane.com.au](http://www.kane.com.au)



**Below** Vast Electrical completed the full electrical installation for the Northcote Aquatic and Recreation Centre including lighting, power and communications.

Vast Electrical, Melbourne’s leading provider of electrical solutions, has joined forces with Kane Constructions to deliver the visionary and environmentally sustainable Northcote Aquatic and Recreation Centre (NARC) for the City of Darebin. With a 6 Star Green Star rating, the new NARC is a world-leading sport and leisure complex, dedicated to promoting the health and wellbeing of the Darebin community.

“We provided the full electrical scope for the centre,” said Project Manager, Darren Wade. “Including lighting, power, communications and lighting control. It was a really fantastic project to work on with a lot of feature lighting and high-end light fittings.” The project also included brand new external lighting, solar power and EV chargers for power saving.

Darren, Project Manager along with Andy, Site Foreman and their team worked on the NARC for 18 months, fostering an excellent working relationship with Kane Constructions. “Apart from the weather, there weren’t any challenges. Everything ran smoothly,” said Darren.

As Melbourne’s premier electrical solutions provider, Vast Electrical Services brings over 25 years of experience.

Their comprehensive range of services covers various sectors, including commercial, community, health, education, retail, and high-rise projects. From design and construction to communication cabling, electrical infrastructure, turn-key electrical solutions, renewable energy systems and service and maintenance, Vast Electrical offers end-to-end electrical solutions tailored to meet the unique requirements of each project.

The company’s track record speaks for itself – they have never missed a deadline and have consistently delivered results that make their partners proud. With an unwavering commitment to service, quality, safety and reliability, Vast Electrical aim to set new industry standards and ensure defect-free projects every time.

One of the key advantages of partnering with Vast Electrical is their ability to

build strong relationships with builders, developers, construction professionals and end clients. They understand the importance of collaboration and work tirelessly to foster strong partnerships that drive project success. Vast Electrical’s goal is to make builders shine by delivering projects on time, within budget and up to the highest standards of quality.

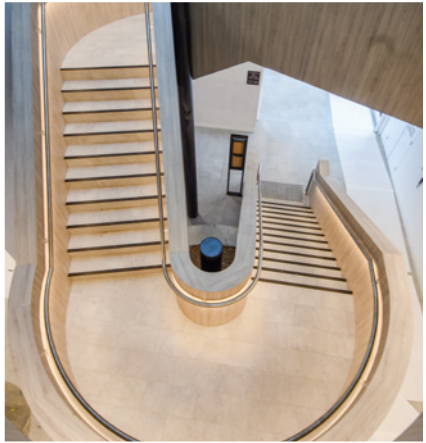
In the exciting collaboration between Vast Electrical and Kane Constructions for the Northcote Aquatic and Recreation Centre, innovation, sustainability and unwavering commitment come together.

With Vast Electrical’s expertise in electrical solutions and Kane Constructions’ reputation as a premier construction company, the NARC project is set to create a lasting impact on the Darebin community, delivering a world-class facility that cultivates health, wellbeing, and community engagement.

Recent projects include Caulfield Racecourse (Caulfield), Ikon Park (Carlton), Caulfield Grammar School (St Kilda), Union Quarter (Spotswood), Darebin Multi Sports Stadium (Narrandjeri Stadium), and Iglu (Melbourne) Student Accommodations.



*For more information contact Vast Electrical Services, 1/38 White Street, South Melbourne VIC 3205, phone 03 9968 5380, office@vastelectrical.com, www.vastelectrical.com*







**Commercial Systems Australia (CSA) is one of Australia’s largest manufacturers of street, park and landscape furniture.** CSA was contracted to manufacture three architectural seats for the Northcote Aquatic and Recreation Center (NARC).

“The seats were designed by the architect, but CSA was required to interpret those designs into a manufacturing effort,” said Director and Sales Manager, Russell Wilson. “We needed to keep the design intent true.”

CSA recognises the importance of environmental protection and sustainability, and are committed to minimising their environmental impact. They offer customers a selection of recycled timber, recycled plastic and sustainable forestry timber products for use in bespoke or standard furniture.

“Due to the shape, size and material (both timber and steel), CSA was required to be innovative in our use of materials to have as least waste as possible for the NARC project,” said Russell.

Established in 1988, CSA began designing and manufacturing classic street furniture, becoming the benchmark for all future designs in

Australia. Catering to market demands, CSA provides total project management including furniture design, structural certifications to installation and associated landscaping works.

“Technically speaking, we learn from all of these jobs, therefore improving our products and services, and as such we receive more work as the architects and constructors know CSA can produce and be waste/cost effective,” said Russell.

CSA is proudly Australian, with all products designed and manufactured in Kilsyth, Victoria. Their diverse team of labourers skilled in timber, welding, painting and assembly ensures each item they produce has been done so with great quality and consistency. CSA products are 100% Australian made and owned.

CSA offers a range of over 200 standard products and can custom design and manufacture to suit individual project needs. Their team of Design Engineers work closely with clients to ensure custom products meet their highest quality standards, and preserve the design integrity. CSA are leading the way into a new era of design with the emphasis on recycled materials, including recycled timber and composite recycled plastics, extruded aluminium and stainless steel.

CSA recommends EnviroSlat®, composite recycled plastic for use on their standard and custom range of public furniture. EnviroSlat® is durable, long lasting and offers a great price for customers. EnviroSlat® has the look of timber, with a natural embossed grain.

Developed for Australian use, EnviroSlat® can be substituted for timber on CSA’s standard timber and metal range of furniture which includes seats and picnic settings among many other products.

Benefits of EnviroSlat® include:

- Diverts plastic and timber waste from landfill.
- Low maintenance and resistant to weathering.
- Requires no painting or staining as the colour is built-in to the product.
- UV treatment and special pigments ensure minimal colour fade.
- Will not split or rot and is termite resistant.
- Anti graffiti coatings can easily be applied.

CSA supports sustainable forestry and source timbers from Australian-managed forests only. Their standard Spotted Gum timber is certified AFS. CSA also offers customers a selection of recycled or reclaimed timbers.



Proudly working alongside Councils, Architects, Landscape Architects, Builders and Construction companies, CSA have supplied street and park furniture for a number of projects including a recent D&C contract for Hampshire Road in Sunshine, Victoria, and custom recycled timber furniture for the Carrum Station Level Crossing removal project featuring large seating benches made from large profile recycled timber logs and 316 grade stainless steel frame.

***For more information contact Commercial Systems Australia,*** phone 03 9723 4111, email [admin@commercialsystems.com.au](mailto:admin@commercialsystems.com.au), website [www.commercialsystems.com.au](http://www.commercialsystems.com.au)



**Below** Sventek Cranes & Rigging performed a number of specialist lifts throughout the entire Northcote Aquatic and Recreation Centre’s construction.



Sventek Cranes & Rigging provided a number of functions at the Northcote Aquatic and Recreation Centre including structural steel installation, precast panel lifts, steel reo mesh, glulam timber rafters, timber cassette erection, and general lifting for Kane Constructions and other on-site Contractors.

“We also performed specialist lifts of Kingspan Insulated roof panels for Signal & Hobbs as well as the Formwork-propping frames and Timber bearers for Toorak Formwork,” said Director, Vlado Sventek.

Sventek Cranes’ planning and operations team provided consistent communication during the project regarding time frames and site conditions to ensure all works were kept to schedule whilst maintaining safety as the highest priority.

Sventek Cranes found it a rewarding and amazing experience to bring this incredible facility to life. “Our heartfelt thanks to Kane Constructions for putting their trust in our Company and giving us the opportunity to work on such an exciting project,” Said Vlado

Experience is everything at Sventek Cranes. With a wealth of knowledge in Steel erection, their team is their most valuable asset.

Sventek Cranes believes in combining technology with experience to find the best solutions for their clients. They have a wide range of Cranes available to suit any lift, from the versatile 2.9T Maeda Crawler Crane to the newly arrived power horse 120T Liebherr Mobile Crane, for the largest projects. Their fleet also includes another recent addition, with a Terex 25T MAC Franna Crane for hire. “We offer very competitive rates for all our Crane Hire and Erection Projects in Melbourne and Greater Victoria,” commented Vlado.

“Our Cranes and Equipment are some of the best in the industry and we keep them immaculately maintained. At Sventek Cranes we take safety very seriously and we pride ourselves on our fleet’s excellent safety record.”

“We aim to always be respectful and transparent with our clients and believe that by working together, we can produce outstanding results,” said Vlado. “We value the people that make this possible, and we are always looking for new and innovative ways to improve our quality service.”

*For more information contact Sventek Cranes & Rigging, 03 5629 1064, email [admin@sventekcranes.com.au](mailto:admin@sventekcranes.com.au), [www.sventekcranes.com.au](http://www.sventekcranes.com.au)*

**Below** Barra Steel was contacted to fabricate and supply all of the structural steel for the Northcote Aquatic and Recreation Centre.



Barra Steel are the local professionals in commercial steel fabrication, taking on a wide range of small, medium-sized, and large commercial construction projects in Melbourne and beyond. Barra Steel was contacted to fabricate and supply all of the structural steel.

“The project was very technical and fabrication occurred over three stages, with roughly 150 pieces made in each stage,” said Project Manager, Devesh Bhende. “One truss measured almost 50m and transporting the finished product to the site proved to be a little challenging,” said Devesh.

However, Barra Steel has a strong commitment to planning in all their projects. “The failure of many construction projects, at their core, is a lack of adequate planning. We always come prepared,” said Devesh. “Before we agree to undertake a project, we ensure that we know all there is to know about it, and before we show up on the site, we already have plans in place for every possible eventuality.”

Having been at the forefront of Melbourne's structural steel fabrication industry for more than 25 years, Barra Steel is one of the most progressive and professional steel fabrication units in Victoria.

The company manufactures Structural steel components, brackets, assemblies and parts, and provides welding as well as installation services.

“We provide steel fabrication of all shapes and sizes, and fabricate steel of all types, including cold-rolled steel, hot-rolled steel” said Devesh.

As a leading industrial steel fabrication company, Barra Steel keeps evolving their tools and machinery to provide you with the most sophisticated and advanced services. Quality testing is one of their strengths and they value client feedback.

Barra Steel is accredited with the below certification:

- Steel Compliance Australia – CC3 Level
- ISO 9001 - Quality Management
- Steel Sustainability Australia – L2B Level
- Environmental Sustainability Australia

*For more information contact Barra Steel, 2/28 Commercial Drive, Dandenong South VIC 3175, phone 03 9768 2477, email [quotes@barrasteel.com.au](mailto:quotes@barrasteel.com.au), website [www.barrasteel.com.au](http://www.barrasteel.com.au)*