

A BEST-IN-CLASS FACILITY

The \$102M Rockhampton Hospital Redevelopment includes an Integrated Cancer Centre (ICC) Radiation Oncology Unit, two Linear Accelerator Bunkers, Structural Shell for Third, ICC Ambulatory Care Unit, ICC Offices, Non-Clinical Support Area and Medical Offices Facilities.

MAIN CONSTRUCTION COMPANY : Hansen Yuncken
CONSTRUCTION VALUE : \$102 Million
COMPLETION DATE : September 2014
PRINCIPLE CONSULTANT : SKM
SURVEYOR : Capricorn Survey Group
STRUCTURAL & CIVIL ENGINEER : Aurecon
HYDRAULIC ENGINEER : SPP
PROJECT MANAGER : Building & Asset Services



Hansen Yuncken Pty Ltd was appointed the Managing Contractor for Stage 2 of the Rockhampton Hospital expansion project in April 2011. The company had overall responsibility for the final design, documentation, construction and commissioning of the \$102 million project. “The fact that Hansen Yuncken has been able to move into a location, where it has never worked before, demonstrates the quality of our organisation and the skills it has developed over the years,” said Queensland State Manager, Greg Baumann. “We have worked with the client, hospital staff, local authorities, subcontractors and suppliers to deliver a best-in-class facility, which will benefit Central Queensland in the years ahead.” The project was completed in September 2014. It consists of a seven floor building with provision for inpatient, Critical Care and High Dependency Units and a Regional Cancer Care Centre, which will give greater access to superior cancer treatment for the Central Queensland Region. The project also included plant and equipment, link bridges and site works.

Hansen Yuncken commenced as a partnership between Lauritz Hansen and Otto Yuncken in Melbourne, in 1918. Today, Hansen Yuncken is one of Australia’s leading construction companies with an annual turnover exceeding \$1 billion. It employs around 680 staff and operates in Victoria, New South Wales, South Australia, Tasmania and Queensland. The health sector is a significant part of the business, with over 100 completed projects. Hansen Yuncken has developed a significant capacity to successfully deliver large re-developments, complemented by numerous smaller scale expansions, upgrades and health facilities. “The \$250 million Orange Base Hospital is a strong testament to our expertise in the sector and our ability to deliver PPP projects,” said Greg Baumann. “In conjunction with our joint venture partners, we are delivering the \$1.85 billion contract to design and build the new Royal Adelaide Hospital.”

In collaboration with the designers, SKM, and local subcontractors, Hansen Yuncken successfully dealt with several challenges presented by the Stage 2 project’s location. The building was required to act as a ‘refuge centre’ during cyclones (to Category 5) and the interior required protection from strong sunlight. Another challenge was the requirement of the Local Industry Participation Plan (LIPP) to source local

products which Hansen Yuncken embraced, resulting in the bulk of project inputs being sourced from Central and South East Queensland. There was also an opportunity to provide patients and staff with panoramic views. Providing windows that could withstand flying debris in a cyclone was a paramount issue. There was no locally-made product that could satisfy this requirement at the time. Hansen Yuncken worked with Central Queensland Windows, Viridian and SKM to develop a complying window/glass system. The company considered 6 separate wall system/shading combinations before a structurally sound and aesthetic solution was developed that achieved both sun-shading and views objectives.

“Aside from the building envelope innovations we are pleased that we were able to convince our client that rather than using a paint-on-CFC system, with the problems of surface degradation due to the strong ultra-violet sunlight, it would be better to employ a prefinished composite aluminium panel cladding system,” said Snr Project Manager, Mike Curtis. “Consequently, together with Skypanel, our Brisbane-based subcontractor, 3-M and our façade consultant, Hyder, Hansen Yuncken developed a cladding system that is aesthetically pleasant, provides long-term durability and is capable of withstanding the ravages of cyclonic conditions.” Hansen Yuncken is also proud that it has worked with the client, Queensland Health, to procure equipment and fittings (FF&E) that are coordinated with the building design. “We are very proud of our capabilities in the area of FF&E management, due to its extremely important place in fitting out complex projects such as Rockhampton,” said Mike Curtis.

“Clients have called on us to take on demanding projects, with the tightest programs and even tighter budgets, and find ways to build within those parameters,” said Greg Baumann, adding “We understand the importance of our role in achieving best value for clients through a process of meaningful collaboration, trust, transparency and fair dealings.”

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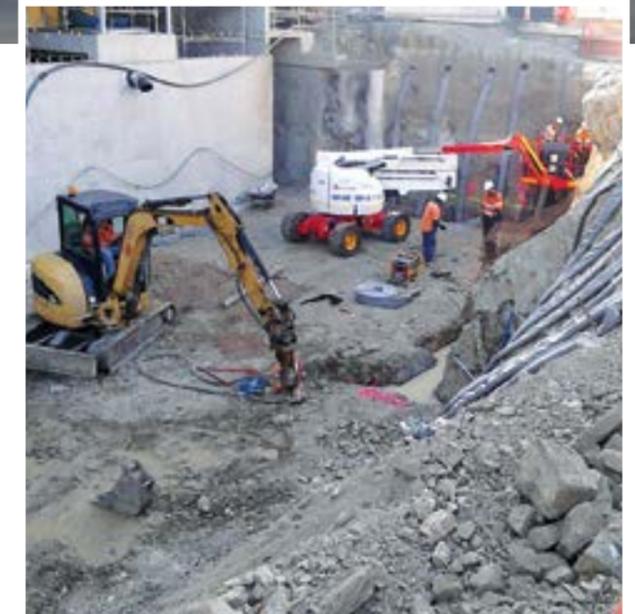
DRILLING DOWN ON CHALLENGES

TEAM Rock Anchors is a specialist drilling and ground engineering company operating in Queensland and northern New South Wales. The company constructed the temporary shoring to the Rockhampton Hospital Stage 2 project basement. Its work included the drilling and installation of over 70 temporary ground anchors (including temporary crane base anchors) and the construction of over 400 sq m of shotcrete wall between existing bored piers.

TEAM Rock Anchors overcame several challenges during the construction of the temporary shoring works, including “limited access to work areas” and “a changing design to accommodate evolving construction methodologies and challenging ground conditions.”

“TEAM Rock Anchors was credited by the client with providing a number of cost saving construction alternatives,” says Projects Manager, Clint Sanford. “TEAM Rock Anchors management has a combined experience of over 100 years in drilling and ground engineering projects. This enables the company to provide cost effective, value-added and on-time drilling and retention solutions for civil infrastructure, commercial and residential projects.”

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JOB DONE SAFELY, RIGHT AND ON-TIME

The scope of works for the civil contract provided by Hansen Yuncken, the Managing Contractor, indicated that safety and the execution of works to meet the programme, were paramount. JRT Civil Pty Ltd took this on board, resulting in a successful outcome. The team from JRT overcame major challenges on this project, including rock anchorage for site stability, water seepage, extraction and removal of rock and excavation of a 6m trench for sewage works. JRT ensured fluid work flow and maintained a dry, workable and safe site.

JRT's well established business boasts a large workforce of competent and well trained on site staff and supervisors with varied experience and expertise. The company has undertaken multiple major works in the Capricorn region including areas such as Rockhampton, Yeppoon, Gracemere, Gladstone, Mackay and further west. Contracts have varied from small hourly hire works to large complex residential subdivisions, in which they offered a full range of services including drainage, sewer, electrical and survey - such is the diversity and flexibility of the team at JRT.

“The one fact that sets JRT apart from other companies in the Civil Construction industry is its access to an extensive fleet of machinery and equipment”, says Jason Thomasson, the Director. JRT has available excavators (from 3t to 45t), Skid Steers, loaders, backhoes, articulated dump trucks, tip trucks with dog trailers, water trucks and even a float for ease of mobilisation. Dozers, rollers and graders are available for major earth works. To get the job done accurately, they have a range of modern laser leveling equipment.

“Since our company's inception, civil construction and general earthworks have been the cornerstone of our business. Our long standing experience means our clients will save time and money”, says Jason Thomasson. “We get the job done safely, right and on-time”.

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