

THE FUTURE OF CANCER CARE

CLIENT · Alfred Health MAIN CONSTRUCTION COMPANY : Kane Constructions ARCHITECT : Lyons Architecture **CONSTRUCTION VALUE : \$152.4 million**

Spanning 6-stories, the state-of-the-art Paula Fox Melanoma and Cancer Center integrates advanced clinical care with cutting-edge research. Equipped with telehealth-capable meeting rooms, a dedicated wellness center, a clinical trial hub, and top-tier medical imaging and research facilities, it's poised to revolutionise melanoma treatment.

Delivered under an AS4300 1995 amended Design & Construct contract by Kane Constructions, the Paula Fox Melanoma and Cancer Centre marks a significant leap forward in healthcare infrastructure, consolidating lifesaving clinical trials, cutting-edge research, and compassionate care under one roof.

The Paula Fox Melanoma and Cancer Centre project encompassed a comprehensive scope of work, including the construction of state-of-the-art laboratory facilities such as the GMO Pharmacy, Car-T Cell laboratories, PC2 labs, Cellular therapy labs, clinical trial labs, and Monash University Tenancy labs.

Additionally, the project involved seamless integration with the existing Alfred Health Hospital, implementation of an ICT backbone, installation of pneumatic tube systems, construction of a two-level basement carpark, and provision of shell spaces for future development at basement level, and Level 3.

Designed by Lyons Architecture, the building's distinctive façade draws inspiration from a skin graft-a common treatment for skin cancer.

"One of the major challenges we faced was the procurement of the façade, which included



a curved curtain wall with a ceramic Frit pattern combined with GRC feature panels," said Project Manager, Tom Chambers. "This required several coordination meetings between various stakeholders to achieve the design intent while ensuring structural adequacy and meeting OH&S standards. Through collaboration with stakeholders, we were able to overcome this challenge and deliver a stunning façade."

Another challenge was the completion of the Level 04 PC2 labs, particularly the GMO Pharmacy and CAR-T Cell lab clean room facilities. Stringent QA was required to meet the strict PC2 guidelines, and Kane Constructions worked closely with their PC2 lab consultant and trades to ensure compliance.

A further challenge experienced by the team was the loss of several key trades along the journey namely our fire detection contractor, concretors and electrician. Kane were able to react quickly to these unfortunate situations to ensure impact to program was reasonably contained.

The development of this centre was driven by Alfred Health patient and philanthropist Paula Fox and is the result of significant support from the Victorian Government



and Australian government, the Fox Family Foundation, Minderoo Foundation and Monash University, along with many other donors and supporters.

"One of the most rewarding aspects of the project was the opportunity to work closely with Paula Fox herself, who attended the site regularly to talk to Kane management and workers," said Tom. "We always love it when we are able to put a face behind who we are building our project for and her and the Alfred Hospital delivery team's support along the journey was fantastic."

Kane Constructions has delivered a worldclass facility that will make a significant impact in the fight against melanoma. "Being able to be a part of such a landmark project, not only for Alfred Hospital, but the Victorian Healthcare system is a real highlight," said Tom. "This facility will provide an elevated standard of care for people in our community who need it and we are proud to be involved in that.'

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HOF Electrical, a trusted name in the electrical services industry, has been instrumental in the construction of the Paula Fox Melanoma and Cancer Centre. Known for its innovative approach and commitment to quality, HOF Electrical has rapidly established itself as a reliable provider of top-tier electrical solutions across various sectors, including but not limited to healthcare, industrial, commercial, and residential.

The company's involvement in the Paula Fox Melanoma and Cancer Centre underscores its capacity to handle complex projects. HOF Electrical undertook the comprehensive electrical design and construct package for the centre, which involved the installation of advanced systems and infrastructure to support the facility's diverse and specialised zones.

The scope of work included a 1675kVA generator and fuel system, nurse call systems, comprehensive communications and security packages, a Dali Dynalite lighting control system, a 250kVA UPS system, and extensive EMF shielding to protect both personnel and sensitive medical equipment.

Additionally, the project featured the installation of a 100kW solar

system, lightning protection, and a monitored emergency and exit system. Coordination with CitiPower for a new high voltage underground supply and indoor sub-station was also a key part of the HOF Electrical team's scope.

One of the challenges HOF Electrical faced was the complexity involved due to the diverse range of spaces integrated within the facility's design. The centre features numerous specialised zones, including PC2 and PC4 laboratories, body-protected patient treatment areas, imaging facilities, multi-disciplinary meeting rooms, and offices. Each of these areas adheres to distinct electrical regulations and standards, further complicating the project's execution.

To address these challenges, HOF Electrical employed innovative solutions and drew upon their extensive experience in the healthcare sector. "Despite the unique challenges inherent in this project, our team leveraged their collective knowledge and specialised expertise to manage and successfully deliver this multifaceted project," Managing Director, Heath O'Farrell explained.

Collaboration with multiple trades and stakeholders was essential to the project's success. "Working closely with architects, consultants, suppliers, Kane Constructions, and CitiPower fostered a dynamic team environment that was critical in completing the project," Heath noted.

"It was a privilege to be part of this project, contributing to the development of such an impactful facility that will make a tangible difference in healthcare delivery," said Heath.

HOF Electrical, based in Richmond, Victoria, is dedicated to delivering reliable and professional electrical solutions. As a recently established entity, the company brings a fresh perspective and approach, leveraging the teams dynamic mix of experience with non-traditional methodologies and cutting-edge industry knowledge. This enables innovative solutions, agile adaptation to market demands, and strategic guidance with technical insights for clients across various industries.

With a rapidly growing team and a diverse portfolio of projects across various sectors, HOF Electrical continues to set new standards in the industry.

The company offers a comprehensive range of services, including end-to-end design and construct, electrical

Below HOF Electrical designed and installed advanced electrical systems for the Paula Fox Melanoma and Cancer Centre, ensuring regulatory compliance and innovative solutions



engineering consulting, service and preventative maintenance, and data and communications solutions.

From minor works to large-scale undertakings, HOF Electrical ensures seamless integration from concept to completion, providing clients with expedited project delivery and meticulous attention to detail. Their commitment to exceeding client expectations through tailored, cost-effective solutions has established HOF Electrical as a trusted partner in the industry.

For more information contact HOF Electrical, 28 Blazey Street, Richmond VIC 3121, phone 1300 92 73 74, email admin@hofelectrical. com.au, website hofelectrical.com.au





Central Communications and Electrical Contractors (CCE) were instrumental in providing flawless cellular connectivity throughout the Paula Fox Melanoma and Cancer Centre project, with the installation of a Distributed Antenna System (DAS).

"Our scope was to build the DAS that can provide 100% cellular coverage within Alfred Melanoma as per the specs," explained CCE Director, Jonathan Cornford. "Being able to provide a great user experience when it comes to using cellular services to the wider community is truly rewarding. We are pleased with the performance of the DAS as shown in our testing results."

The team encountered a significant obstacle in running 7/8" coax cables along intricate routes with bends and obstacles obstructing other services. CCE effectively navigated the complexities by fostering collaboration with other trades, ultimately ensuring the successful installation for all services.

Electrical and communications contractors were required to work with minimal allowance on cable tray runs, resulting in an opportunity for creative problem-solving and collaboration, between teams to effectively manage available resources. "We were able to overcome

issues with labs, clean areas, and pressurised areas and install to suffice the builder's expectations and standards."

Since 1997, CCE has been serving clients throughout Australia, offering premium products and turnkey solutions for wireless enhancement needs. CCE specialises exclusively in building DAS systems to Australian cellular operators standards. With skilled and experienced resources available for the design, drafting, installation, testing, and commissioning of any in-building system, CCE delivers projects from beginning to end with seamless and trouble-free consultation with both builders and carriers to give a satisfactory result. We are Supply Nation registered which helps with indigenous procurement required on many projects.

"We are an established company in which the directors and employees all work together as a team dedicated to providing a quality installation on time," said Jonathan.

For more information contact Central Communications and Electrical Contractors, Factory 2 & 3, 188 Centre Road, Narre Warren VIC 3805, phone Directors Sean McGarrigle 0418 384 629 or Jonathan Cornford 0407 432 853, email projects@cce.com.au, website cce.com.au

Behind the striking façade of the Paula Fox Melanoma and Cancer Center lies the meticulous work of award-winning façade specialist, Fangda Australia.

"Fangda supplied the external façade components for this project, including unitised curtain wall, glazing, perforated aluminium cladding, and featured shroud for the Level 5 terrace," said Project Manager, James Gong. "The scope of work was extensive, requiring precision and attention to detail to meet the architect's vision."

Fangda Australia, part of the China Fangda Group, delivers high-end facade solutions for curtain walls and window walls. Since its founding in 2016, Fangda Australia has built a reputation for excellence in workmanship, competitive pricing and outstanding results. One of the major challenges faced by Fangda was the fritted glass, The company offers a one-stop solution for all facade needs, including which required a digital print to create the pattern and meet the design, engineering, production, logistics, site installation and afterarchitect's expectations. sales services.

Additionally, the concave and convex glass, as well as the top curved fair-shaped glazing, posed design and production challenges for the unitised panel. To overcome these challenges, Fangda used special extruded profiles to achieve the desired aesthetic without compromising the overall performance of the curtain wall.

Another notable challenge was the removable curtain wall panel on the east elevation, which required careful planning to allow for the

construction of a link bridge between PFMCC and the existing old hospital building.

"A big highlight of this project was that all curtain wall production supply was completed within three months," said James.

"We provide clients with high-class boutique curtain walls to meet all their needs. No matter what your project might be, our team of professionals is ready to bring your ideas to life," said James.

For more information contact Fangda Australia, 3B/990 Toorak Road, Camberwell VIC 3124, email overseas@fangda.com, phone 03 8685 8432, website www.fangda.com.au





Arctic Constructions has showcased their expertise in the construction of PC2 level laboratory rooms crucial for the Paula Fox Melanoma and Cancer Center's clinical trials, demonstrating Arctic Constructions' capability in delivering high-quality healthcare facilities.

"The Paula Fox Melanoma and Cancer Centre project presented us with several challenges that required innovative solutions and "I am incredibly proud of the Arctic Constructions team for their meticulous planning," said Arctic Constructions Director, James professionalism, patience, and resilience throughout this project. Lawless. "One of the major challenges was the spatial restrictions on Their dedication to delivering exceptional quality despite the challenges Level 4, where the laboratory rooms were to be constructed. We had to is commendable," said James. work closely with service trades to ensure that all penetrations through the panels were sealed appropriately, while also designing alternative Arctic Construction specialises in all aspects of insulated panel wall-to-ceiling connection methods to accommodate the services." construction including Clean Room, Cold Storage and Pharmaceutical.

Access to the construction site also posed a significant challenge. "With all materials needing to be craned up onto the loading dock and 9m long panels being maneuvered with precision, the project required careful coordination and skillful execution," said James.

Arctic Constructions also had to meet stringent design requirements. The walls, ceilings, doors, and windows had to be PC2 compliant

Below Arctic Constructions created PC2 labs crucial for the Paula Fox Melanoma and Cancer Center, within tight space and access limitations.

and withstand significant pressure. This necessitated custom design work in-house, working closely with Kane's design team to develop solutions that met the project's unique demands.

Despite these challenges, Arctic Constructions successfully delivered a project that not only met but exceeded expectations.

Services include insulated panel construction, all types of controlled atmosphere environments, coolroom/ freezer facilities, food processing areas, controlled clean and dust proof rooms, portable structures, architectural façade systems, and insulated panel roofing systems.

For more information contact Arctic Constructions, Factory 2/12 Access Way, Carrum Downs VIC 3201, email sales@arcticipc.com.au, phone 03 9708 2750, website www.arcticipc.com.au