



PROJECT FACT SHEET



SYDNEY MODERN ART GALLERY

CLIENT: RICHARD CROOKES CONSTRUCTIONS

Nilsen has successfully completed the design and construction of electrical and communication services for the new Sydney Modern Art Gallery Project, located at Woolloomooloo Sydney.

As part of the Art Gallery of NSW's transformation, the Sydney Modern Project, a new stand-alone building opened its doors to the public in December 2022. Connected to the existing Art Gallery building via a public art garden, it is home to a collection of Aboriginal and Torres Strait Islander art, performance art and other exciting commissions and exhibitions. Conceived by Japanese architecture firm SANAA, the new building's design first and foremost considers its surrounding environment and site topography.

Located next to Sydney's spectacular harbour setting, along with the pristine Royal Botanic Garden Sydney, SANAA's design offers an abundance of glazed facades and windows to welcome views of the surrounds from within the exhibition and circulation spaces.

An abundance of natural light filling the new building at different times of day calls for precise consideration of lighting. Hidden beneath the new building is a preserved WWII naval oil tank. SANAA's response to this hidden treasure was to repurpose and transform it into what will be an art space like no other, while still respecting it's found state. The 2,200 square metre space is home to a unique gallery boasting 7m high ceilings and a brigade of spectacular concrete columns.



NILSEN SCOPE OF WORKS

- New chamber substation and transformers
- High voltage diversions and associated high voltage
- Main switchboards & distribution boards
- Installation of light fittings
- Dynalite and Casambi Lighting control system and equipment
- Power and communications outlets
- Consumer mains, submains, containment
- Over 300 Floor boxes cast into polished concrete
- 750kVA standby diesel power generation system with a 2000L bulk tank
- Site wide lightning protection
- Three 60kVA UPS systems
- Fibre and copper communication backbone and structured cabling and associated passive equipment, communications racks, and field outlets
- New telecommunications lead-in service provision for NBN
- Distributed Antenna System (DAS) works
- 310kW PV system that is made up of 756 LG 410W solar panels installed on the entry pavilion roof
- The PV system is designed to offset peak load and back feed into the grid including required controls and synchronisation with the grid supply

