



DEMEX

Demolition | Excavation | Remediation

ST ANDREW'S PRIVATE HOSPITAL, IPSWICH

APRIL 2022 – MAY 2022

CLIENT: JOHN HOLLAND PTY LTD

CONTRACT VALUE: \$107,000

Undertaken at a busy regional hospital in Ipswich, this project involved partial dismantling of the awning which covered the designated ramp for ambulances. Demolition works involved both oxy cutting and mechanical demolition of the awning, as well as demolition and removal of the carpark slab for an extension of 350 m2, completed by excavator. The part of the awning to remain in situ needed to be propped in place, a process which required engineering design and sign off. Additional small earthworks tasks were required, including battering of site boundaries and placement and compact of tunnel boring material (TBM) sourced from [which] project.

While the project works were not difficult, the awning's location over the hospital ramp meant there was no capacity to absorb any failure, particularly as access to the ramp was still required 24/7. Engineering was challenging, given the requirement was to create a structure that was not only temporary but could still withstand an impact if inadvertently hit by a vehicle (for example, an ambulance or car). The engineering allowed for placement of bracings and props which provided appropriate support and ensured the project was delivered without incident. To conduct the works safely, there was a requirement to mitigate live services, noise, and vibration.

Additionally, traffic control was required to the back and rear of the site. A final site scrape was completed, allowing the principal contractor to proceed with subsequent works.

Project highlights

- Project delivered on time and budget
- Zero safety incidents
- Recycled 100% concrete and steel
- Grass was repurposed to Sniffers to create an eco-earth material
- Fridge panels were recycled and kept from landfill.

Project methodology

Works were conducted simultaneously on two separate areas of the site. Once the area was barricaded with temporary panelled fence, hammering of the car park slab was successfully completed with consecutive load out of material such as concrete and soil. Removal of demolition material was conducted, the site boundaries batter completed, and finally a small section that was compacted using TBM. For dismantling of the awning, engineering design was required for propping prior commencement. Dismantling commenced by reducing structure weight through removal of the cladding, which enabled temporary propping to be installed. After receiving the sign off from the engineer, the existing props were oxy cut and the structure demolished using the excavator.