



New Bundaberg Hospital

Piling fact sheet

JULY 2026

Piling works will be completed as part of the construction of the new Bundaberg Hospital project.

Piling is the process of installing vertical structural elements called piles deep into the ground to create a stable foundation for large structures.

There are various piling methods used in construction, but generally it involves boring or driving them into the ground to transfer the weight of a structure to more stable soil or rock layers beneath a surface.

What does piling involve?

The project will use bored piles and Continuous Flight Auger (CFA) piles. A pile is formed by drilling a shaft into the ground with an auger (a drill resembling a large corkscrew) that is attached to a piling rig.

Concrete is then injected under pressure through the hollow stem of the auger, and the auger is removed. Once the concrete has been injected, a reinforced steel cage is inserted into the concrete to complete the pile.

Once the concrete is set, pile cropping is then undertaken by breaking away the top section of concrete down to the desired level. This leaves the reinforced steel cages exposed to make an effective bond for the pile cap, which is a mass concrete structure that sits on top of the pile and is the first level of foundation for the structure being built.

All piles will be constructed using cast in-situ concrete rather than precast driven piles. This method has been selected to significantly reduce noise, ground vibration, and overall disruption to the surrounding community.

See diagram overleaf.

What to expect

The piling works will be carried out using three piling rigs supported by two crawler cranes. Each piling rig weighs approximately 140,000 kilograms and stands at a height of just over 46 metres. Around 470 foundation piles will be required for the first stage of construction, with the deepest pile extending 39 metres into the ground. On average, approximately six piles will be completed each day, dependent on weather and ground conditions.

A range of environmental management measures, including noise and vibration monitoring will be in place during these works. You might hear some occasional banging or clunking sounds while dirt is being removed. This happens as the machine turns to shake the soil loose.

Contact us

SITE AND CONSTRUCTION ENQUIRIES

Phone: 0414 353 100

Email: NBH.information@cpbcon.com.au

GENERAL PROJECT ENQUIRIES

Phone: 4303 8540

Email: WBHHS-NewHospital@health.qld.gov.au

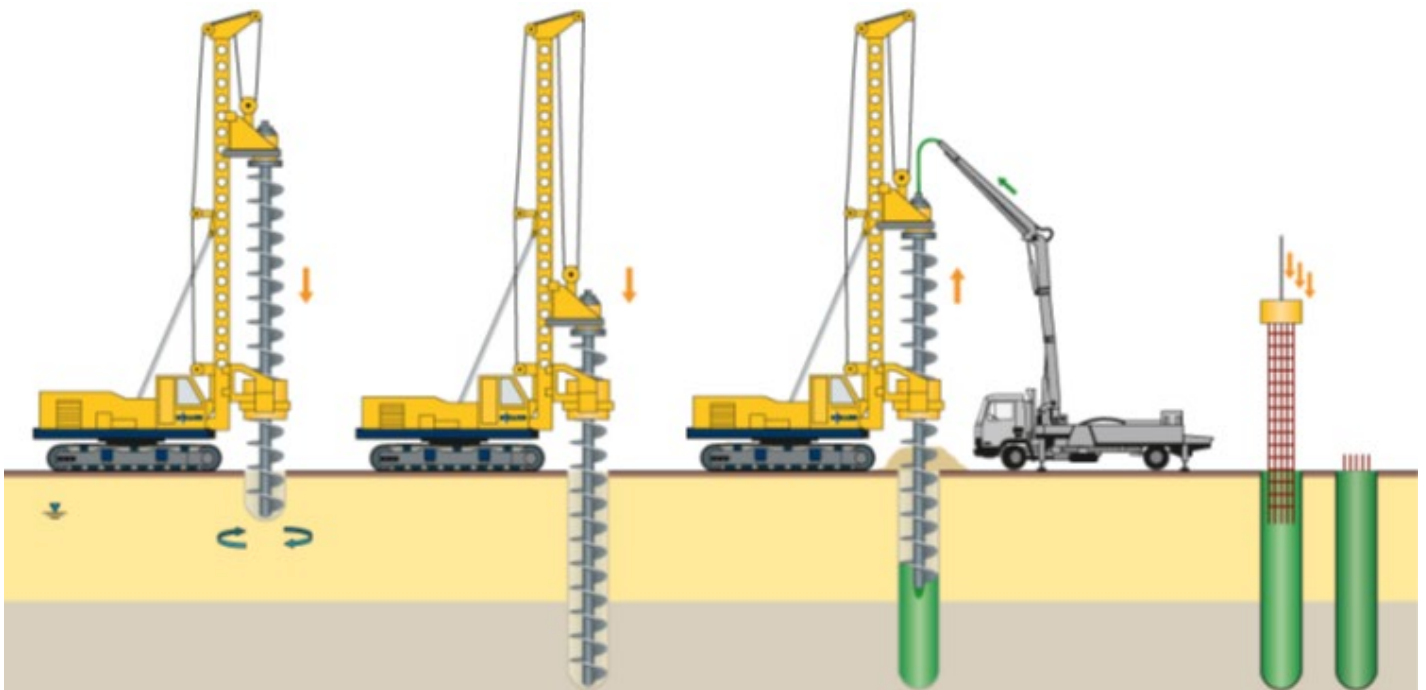
About the project

The new Bundaberg Hospital will feature a clinical services building with a rooftop helipad, a mental health unit and a facility support centre.

It's the largest health investment the region has ever seen and will deliver additional beds to serve the region's growing and ageing community.

CPB Contractors is currently delivering the design and early/enabling works (i.e., roads and utilities) for the new Bundaberg Hospital Project under a Stage 1 Managing Contractor contract.

CFA PILING CONSTRUCTION



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