

# 55 Pitt St, Sydney



**Location**  
55 Pitt St, Sydney

**Client**  
Metropolitan Demolitions Group

**Timeframe**  
Jul 22 – Sep 23

**Scope**

- Geotechnical
- Environmental
- Testing

55 Pitt Street is a 53-storey tower development with three level basement located directly above the Sydney Metro tunnel.

Alliance provided geotechnical support to Metropolitan Demolitions Group which is the project's appointed demolition and groundworks excavation contractor.

Alliance has provided the following expertise:

- Advice on piling platform construction methodology for one of the largest piling rigs in Australia, Bauer BG45-01.
- Performing settlement assessment associated with temporary fill stockpile over the existing basement slab during demolition and excavation process.
- Geological mapping of excavation faces and addressing potential issues. Providing cost-effective

and safe solutions for rock face stabilisation.

- Carrying out two-phase proof coring investigation required for footings.
- Inspecting and certifying footing system (piles) for an overhanging crane platform supporting a M630D tower crane.
- Inspecting and certifying 17 piles with the largest being 2,800mm diameter, excavated up to 22m, into high-strength sandstone. These piles are unique in design, comprising hollow annulus to prevent lateral loads transfer to the adjacent metro tunnel system.

Throughout the construction process, Alliance has worked collaboratively with the client, designers and various stakeholders in order to provide practical solutions to assist in delivering the project safely and on time.