

DARLING WALK

JET GROUT COLUMNS



MENARD BACHY



Client: Lend Lease Development
Consultant: Arup Pty Ltd

Contractor: Bovis Lend Lease Pty Ltd
Specialist Contractor: Menard Bachy Pty Ltd

THE PROJECT

The Darling Walk project is a \$560 million dollar redevelopment project combining commercial office and leisure space.

Lend Lease Development has been chosen to develop the 1.5-hectare site.

The 68,000 square metre Darling Walk project will include:

- up to eight storeys, or 58,000 square metres, of commercial office space
- 600 public and 200 private underground car spaces
- retail and leisure facilities
- new public open space.

MENARD BACHY'S ROLE

The project required the installation of a hard soft composite retaining wall (hybrid secant wall) to the basement of the proposed new building. The wall also acts as a cut-off wall to the basement perimeter and was to be constructed using 'hard' structural piles to take to structural loading and a 'soft' jet grouted infill pile to facilitate the water cutoff.

Menard Bachy installed 365 No. jet grout columns with 800mm, 900mm and 1100mm diameters. The jet grouting columns were installed between the structural piles installed by the piling contractor which extend around the perimeter of the intended basement excavation. Jet grout columns extended 500mm into Class IV sandstone, the depth to which varied between 3.5m to 15.5m from platform level.

Menard Bachy scope also extended underpinning works to pad and strip footings to support the Liverpool Street foot bridge adjacent to the works described above. The underpinning was completed using a low mast jetting rig prior to completing the cut off wall.

The works commenced on 5 January and finished on 20 March.