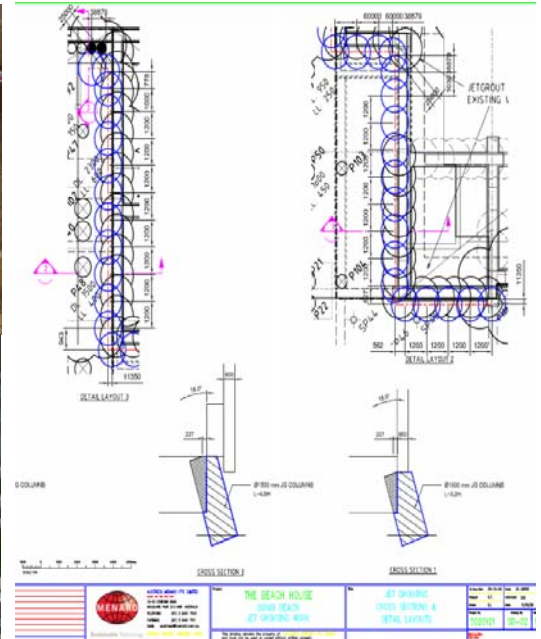


THE BEACH HOUSE, BONDI

JET GROUTING



Client: Investec Property Investments ACN
Consultant: James Taylor Associates

Contractor: Ganellen/Absolut Contracting
Specialist Contractor: Menard Bachy Pty Ltd

THE PROJECT

The project was a redevelopment of the Bondi Hotel situated on the front line in Bondi Beach, South of Sydney.

The existing hotel was composed for a four storey heritage building with a basement cellar. The redevelopment was included demolition of part the existing hotel and construction of five storeys above ground consisting of retail, commercial and residential floor space in about 1.500 m². Two basement levels were proposed beneath the redeveloped section.

The excavations required had intersected underlying soils conditions consisting in very loose to dense sand.

MENARD BACHY'S ROLE

Menard Bachy was engaged to install a series of Jet Grout columns \varnothing 1500mm beneath the existing wall of the basement cellar to underpinning existing footings and temporary excavation shoring for the basement.

The installations were undertaken in a series of interlocking jet grout circular columns intersected 300mm each one to ensure the continuity of the gravity soil cement wall underneath of the existing wall.

The columns had been installed inclined with 18° from the vertical to ensure underpinning the wall foundations.

Due to the critical conditions of the old concrete slab underside the wall, and to prevent slab lifting and cracking, during the execution of the works were taken a special sequential jet grout column installation. There was considering the priority of working in the areas with lower risk to the high risk and leave two to three columns in between the execution of each column.

To keep safe the execution of the work was implemented a monitoring plan during the installation of each jet grouting column from drilling to the end of jetting.

The monitoring plan it consisted of the survey points installed on the wall next to each column. The readings were controlled and recorded with laser level during all the execution of the jet grout columns.

The project consisted of installing a total number of 37 columns with average jet length of 3.8m per column.

The mini rig used enabled all workings completed in limited space and without disruption.