

PEZZIMENTI TUNNELBORE



Specialising in: **Highly Accurate, Laser-Guided Microtunnels.**

Concord West



PHONE | + 61 (2) 4735 6676

WEBSITE | www.pezzimenti.com.au



Power distributors Ausgrid needed to cross the Main Northern Railway in two locations to extend their network of high voltage feeder lines.

The two crossings were approximately 1km apart and Railcorp required both crossings to be carried out during a weekend rail possession. Railcorp had scheduled a number of weekend possessions at approximately 12 week intervals throughout the year and Ausgrid set the date for the rail crossings to be completed over a shutdown weekend. Ausgrid let the head contract to Dunmain. Dunmain are an accredited Level One Service Provider working in the electrical industry.

Client
Ausgrid

Length
53m & 35m

Bore Diameter
900mm & 700mm

Jacking Pipe
700S-Series & 900S-Series

Conduits
9xØ150+1xØ50 & 4x Ø150+ 1xØ50

Ground
Shale

Grade
0.5% & 4.7%



+ Close Proximity to Rail.

Dunmain completed the construction of both shafts ready for the establishment of the microtunnelling equipment on site and for the jacking frames to be concreted in by Thursday prior to the weekend. Due to the close proximity of the rail, only a few metres were drilled prior to the rail shutdown. The remaining works 48m of 900mm and 30m of 700mm pipe jacking were required to be completed during the shutdown which was scheduled to start at midnight Friday night and end midnight Sunday night.

+ Break Through of Ø700mm Microtunnel

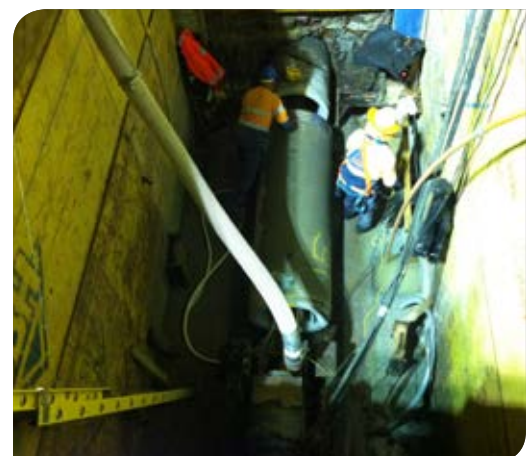
The night shift completed 8 pipes by noon on Saturday and the next crew another 4 to breakthrough at 5pm on Saturday afternoon. The head was removed, rods retracted and the annular space grouted between the pipes and the microtunnel on the Sunday shift. The conduits were inserted and then grout encased on the few days following the weekend.



+ Break Through of Ø900mm Microtunnel

The 20 pipes were jacked in over the weekend with work proceeding again on a 24x7 basis. Breakthrough occurred at 10.30am on the Sunday. The head was removed, rods retracted and the annular space grouted between the pipes and the microtunnel on the Sunday shift during the shutdown as required.

The conduits were inserted and then grout encased on the few days following the weekend.



PEZZIMENTI TUNNELBORE



For all inquiries – including Job Inspections,
Quotations and Project Feasibilities –
please don't hesitate to contact Pezzimenti
Tunnelbore. We are confident we'll hit the
mark on your next microtunneling project.

+ WEBSITE

www.pezzimenti.com.au

+ PHONE

61 (2) 4735 6676



When Accuracy Matters.