

M-I-G SUBSTATIONS AND POWER SUPPLY UPGRADE

Degnan successfully delivered three traction substations at Minto, Ingleburn, and Guildford as part of the Power Supply Upgrade for the Rail Network.



MINTO



INGLEBURN



GUILDFORD

TYPE OF PROJECT:

Energy

LOCATION:

Minto, Ingleburn & Guildford, NSW

CLIENT:

Downer / TfNSW

PROJECT COMPLETION:

September 2017

VALUE:

\$9.5M

DELIVERY MODEL:

Construct Only

Degnan were engaged by Downer to construct three substations, located at Minto, Ingleburn, and Guildford, as part of the Power Supply Upgrade (PSU) required for the Rail Network.

Scope included:

- Bored concrete piles and concrete floor structures
- Steel structural framework
- The façade consisting of honed and split face blockwork to full height, along with alucobond composite external cladding, 2 stage louvres providing adequate ventilation for the new electrical equipment
- The new drainage systems comprising of SPEL oil containment systems and stormwater detention systems
- The substations are surrounded by blockwork
- Retaining walls and security fencing

The construction of the substations were undertaken within the live rail environment and required considerable coordination and planning due to the high risk nature of working within the rail corridor.

There was also a high level of coordination with HV contractors and Sydney Trains, who is the end user of these new Traction Substations.