

Westconnex project, Sydney NSW

Case study – Custom DN3600 pits



Custom DN3600 pits provide multiple benefits for Westconnex jacking pipe installation

Westconnex is a multi-billion dollar NSW and Australian government motorway project in Western Sydney, which links Homebush in the North to Kingsgrove in the South.

The project's surface drainage works at Kingsgrove had initially been designed to include large in-situ pits into which Humes DN1500 J-Series pipes would be jacked. However a potential issue was raised when inspection of the design drawings indicated that the jacked pipe could possibly enter too close to the corner of the in-situ pits if tolerances were out slightly.

As the pipe supplier for the project Humes offered the builder, CPB Contractors, a custom solution that would alleviate this risk. Humes proposed utilising their DN3600 pump-well product and casting in custom block-outs. With the precast solution being comparable in price but also offering the added benefits of reduced man-hours and installation time, Humes was awarded the supply.

With the physical weight of the pits being a consideration for site lifting and installation, as well as their structural integrity with such large block-outs cast in, Humes chose to manufacture them in two sections, creating a top and bottom piece.

Program lead times were met making it easier for the client to program than in-situ work which would have been subjected to weather conditions, curing and stripping times. The easy two piece installation for each unit took less than an hour from unloading, leaving CPB Contractors happy with their choice of the Humes precast solution.

Project

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Principal

NSW and Australian Governments

Civil Contractor

CPB Contractors

Product supplied

5 no. Custom DN3600 pits and DN1500 J-Series jacking pipes



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