

# GREEN SQUARE STORM PIPELINE

## EMPIRE DELIVERS THE GREEN SQUARE STORMWATER DRAIN PIPELINE

Green Square, 3.5km south of the Sydney CBD, is one of the City of Sydney's most significant urban renewal precincts, forecast to accommodate 40,000 new residents and 22,000 workers by 2030. Sydney Water and the City of Sydney partnered to deliver the Green Square Stormwater Drain, a 2.4-kilometre drainage system carrying flows from the full upstream catchment at Joynton Avenue to Alexandra Canal.

## 4.5 KILOMETRES OF DN1800 RCP, PURPOSE-MADE

In 2015, Empire supplied 4.5 kilometres of CP&P DN1800 RCP Jacking Pipe, including interjack lead and trail pipes to give the alliance additional factors of safety. To meet the specific diameter requirement, a new pipe mould was fabricated, a commitment that was fundamental to the project's construction program.

"Green Square required a supplier willing to commit to a new mould for a single project, then deliver thousands of metres of DN1800 RCP on time and in full. That commitment exceeded the contractor's expectations," said Aaron Mackley, Director of Sales & Operations at Empire Infrastructure.

## TWIN AND TRIPLE PARALLEL DRIVES BENEATH THE WATER TABLE

The most technically demanding section involved approximately 4 kilometres of DN1800 pipeline installed in twin and triple parallel formation over 1.3 kilometres, entirely within the groundwater table. This required a pipe specification capable of performing under sustained hydrostatic load. The full pipe and accessories scope was delivered on time and in full.

## INFRASTRUCTURE THAT SCALES WITH A GROWING CITY

Empire's technical team worked closely with the DG Alliance to ensure the full 4.5-kilometre pipe scope and interjack configuration aligned with the construction program.



## PROJECT DETAILS

**Location:** Sydney, NSW

**Contractor:** DG Alliance & Rob Carr

**Client:** Sydney Water

**Product:** CP&P RCP Jacking Pipe

**Scope:** 4.5km of DN1800 RCP Jacking Pipe


**Stiffness:** Class 4

**Installation:** Microtunnelling

The completed stormwater drain won the *Infrastructure Project Innovation Award* for NSW in 2019, standing as one of the most complex concrete jacking pipe supply programs Empire has executed.

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