

RIDGELEA BRANCH SEWER

CONNECTING A NEW COMMUNITY

As Melbourne's southeastern corridor continues to grow, quality underground infrastructure is essential to support incoming residents. The Ridgelea Estate development required connection to the existing sewer network, with works encompassing both Open Trench and Pipe Jacking installation methods, along with Manhole Connectors and Pipe Bends to complete the tie-in.

VERSATILE PIPE FOR A MULTI-METHOD ALIGNMENT

Empire supplied 1,434 metres of Fiberstrong™ GRP pipe across three specifications: 316m of DN300 SN10,000 Open Trench Pipe; 204m of DN300 SN640,000 Jacking Pipe; and 914m of DN350 SN640,000 Jacking Pipe. Manhole Connectors, Rocker Pipes and Bends rounded out the package for both shallower open-cut and deeper microtunnelled sections.

"Mixed-method sewer projects demand pipe you can trust at every depth and in every condition, and CW-GRP is built precisely for this level of versatility," said Aaron Mackley, Director of Sales & Operations at Empire Infrastructure.

DEPTH, DIAMETER AND DEVELOPMENT DENSITY

The Ridgelea Estate sits 57km southwest of Melbourne's CBD, east of Pakenham, and will accommodate thousands of new residents upon completion. Connecting the estate to the existing South East Water network required pipe installed across two methods: open trench in shallower sections up to 6 metres depth, and microtunnelling in deeper sections reaching 12 metres. The high-stiffness SN640,000 specification ensured structural integrity under significant ground pressures, while Manhole Connectors and Rocker Pipes provided flexibility at transition points.

BUILT ON COLLABORATION AND QUALITY

Empire was privileged to work with Iplex Pipelines Australia to supply the GRP pipes and fittings. The pipe was manufactured in accordance with ISO and Australian Standards.



PROJECT DETAILS

Location: Ridgelea, VIC

Contractor: All Areas Drainage & Pezzimenti Trenchless

Client: South East Water

Product: CW-GRP

Scope: 1,434m of GRP Jacking & Open Cut Pipe


Stiffness: SN10,000 & SN640,000

Installation: Mixed Method

Throughout design and delivery, Empire worked closely with All Areas Drainage and Pezzimenti Trenchless to ensure the pipe's performance characteristics aligned with both open-trench and microtunnelling methodologies.

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