

> HONG KONG

Queens Hill

Sewer Rising Main

CV/2016/07



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Chun Wo were awarded the contract to install twin DN 350 (400 OD) PE 100 RC pipelines for transporting pressure sewer along the Ng Tung River for approximately 6km.

April 2018

Over 11km of Mill-Pro M90 ES SDR 21 PE100 RC pipe was installed for this DSD project. AECOM burial design used imported graded backfill with a geotextile barrier to prevent fines being washed away. The pipes burial design is highly conservative and a PN8 maximum operating pressure means the PE portions of this pipeline will exceed 100 years of service.

This PE pipeline replaced 12km of existing Ductile Iron Sewer rising main that was at the end of its operational life. This PE line is expected to last 4x longer than the DI pipe it is replacing, as the corrosive elements found in sewerage gas have no effect on Polyethylene.

Mill-Pro supplied 11km of PE100 RC pipe, miter bends, flanged joints and over 2000 400mm OD Friatec Electrofusion Couplers to connect the twin rising main along the Ng Tung River near Sheung Shui.

The German Friatec couplers fused with a 100% success rate after hydro testing. A credit to the quality workmanship of Chun Wo Constructions installation team and the unbeatable quality of German made Friatec electrofusion couplers.

In larger sizes (>250 OD) the failure rates of cheaper electrofusion couplers can 30 to 40% of the couplers installed. On a project like this, the replacement costs for excavating defective couplers can be 20-50x more than the savings gained procuring cheap Electrofusion couplers.

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