

PIPE JACKING CASE STUDY

Channel Reach, Crosby, Sefton



www.pipejacking.org

PROJECT	Channel Reach, Crosby, Sefton
CLIENT	United Utilities/BBUSL
CONTRACTOR	A E Yates Trenchless Solutions Ltd
PIPE SUPPLIER	F P McCann
TUNNELLING MACHINE	Iseki Unclemole
VALUE	£700,000



PROJECT OVERVIEW

This United Utilities scheme was designed to alleviate DG5 flooding events in the Burbo Bank Road area of Crosby during heavy rainfall. The existing sewerage system was upgraded by installing larger diameter pipes that transferred the storm water to a large storage tank and pumping station.

DESCRIPTION OF WORKS

Seven wet caisson shafts, with an average depth of 6m, were sunk to provide the drive and reception pits, all of which were converted to permanent manholes following completion of the pipe jacking works.

Six drives totalling 520 metres were driven using an Iseki Unclemole. Two of the drives were installed using 600mm diameter concrete pipes and four drives with 675mm diameter GRP pipes.

Ground conditions were wet sand with caissons being plugged underwater.

CO₂ SAVINGS

CO₂ savings of the pipe jacking element compared to open cut construction were 68% for the 600/675mm diameter drives. Source: pipejackingco2calculator.com

FURTHER INFORMATION: www.aeyates.co.uk

