

PIPE JACKING CASE STUDY

Ellergill Culvert Undertrack Crossing



www.pipejacking.org

PROJECT	Ellergill Culvert Undertrack Crossing
CLIENT	Network Rail/J Murphy & Sons
CONTRACTOR	A E Yates Trenchless Solutions Ltd
PIPE SUPPLIER	F P McCann
TUNNELLING MACHINE	Herrenknecht MH3 Backacter
VALUE	£576,000



PROJECT OVERVIEW

An existing twin masonry culvert under a coastal railway line at Nethertown in Cumbria was considered a risk to the rail infrastructure in the event of storm flooding, which could exceed the capacity of the culvert, and exert a lateral force on the embankment compromising its integrity. The culvert was replaced with a large diameter pipe under the railway with reinforced concrete head walls.

DESCRIPTION OF WORKS

Works included sheet piling to form temporary and permanent structures as part of the drive pit and to reinforce the concrete head walls at both ends of the pipe jack.

45 metres of 1500mm diameter steel banded concrete jacking pipes were installed using a backacter shield.

Reinforced concrete inlet and outlet head walls were constructed and the existing culvert was abandoned and made safe by filling with grout in addition to completing soft landscaping and finishing works.

FURTHER INFORMATION: www.aeyates.co.uk

