

# PIPE JACKING CASE STUDY

## Albrighton Flood Alleviation Scheme



[www.pipejacking.org](http://www.pipejacking.org)

PROJECT	Albrighton Flood Alleviation Scheme
CLIENT	Severn Trent Water
CONTRACTOR	Barhale plc
PIPE SUPPLIER	F P McCann
TUNNELLING MACHINE	Herrenknecht AVN/Iseki Unclemole
VALUE	£6,400,000



### PROJECT OVERVIEW

Albrighton Flood Alleviation scheme consisted of four inter-related projects all combining to overcome severe risk of storm water flooding that had previously affected the town. The scheme to upgrade sewerage in the town was extended to include renewal of some water mains, thereby avoiding duplication of construction activity at a later date.

### DESCRIPTION OF WORKS

300 metres of 1800mm diameter catchment sewer and 700 metres at 600mm diameter were installed by microtunnel. Additionally 400 metres of other sewers were installed together with associated manholes.

Barhale provided innovative, cost-saving solutions for the client by carrying out the micro-tunnelling operations to a curved profile; thereby avoiding existing buried utility services. This generated a financial saving for Severn Trent of £300,000: the cost of telephone cable diversions which would have been otherwise necessary. This was one of the first micro tunnels in the UK to be cut on a curve through rock.

Additional works included overflow chambers, a reinforced chamber incorporating a rotating screen, water mains, sewers and storm outfalls, part of which were installed by guided auger boring.

### CO<sub>2</sub> SAVINGS

CO<sub>2</sub> savings of the pipe jacking element compared to open cut construction were 28% for the 1800mm diameter drive and 76% for the 600mm diameter drive.  
Source: [pipejackingco2calculator.com](http://pipejackingco2calculator.com)

FURTHER INFORMATION: [www.barhale.co.uk](http://www.barhale.co.uk)

