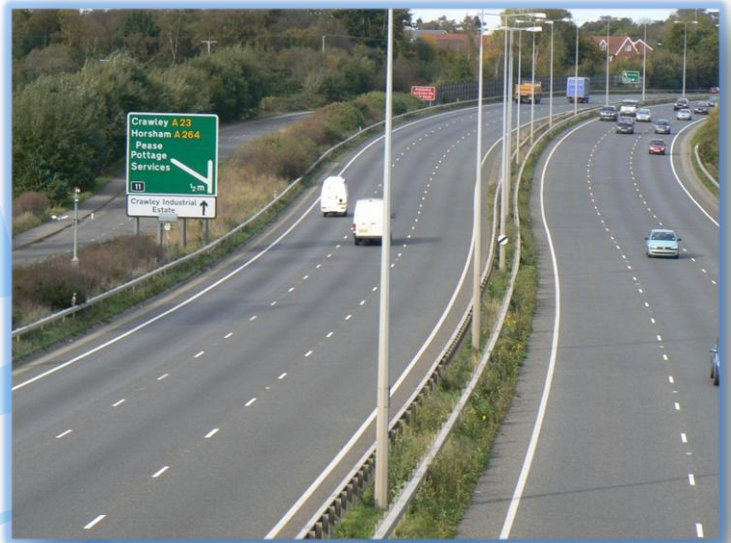


The Pease Pottage sewer upgrade works is part of an extensive programme of capital investment by Thames to upgrade its infrastructure.

Work includes the replacement of 2.3 km of rising main and gravity sewers, the construction of a 7.5m diameter sewerage pumping station and of a 2.5m diameter attenuation tank to hold and release sewage in a controlled manner, thereby improving efficiencies and giving Thames water increased flow control.



## The Challenge

The M23 motorway is an important commuter route from West Sussex to the M25, as well as having the unenviable task of being a supply road to the UK's second biggest passenger transport hub, Gatwick Airport. Pease Pottage sits at the southern tip of the M23 and is one of a number of commuter towns in the surrounding area. The client needed to install a new trunk sewer to connect existing infrastructures across the busiest feeder junction to the M23 and construct a new manhole in the centre of a dual lane roundabout.

### Client:

❖ Thames Water

### Main Contractor:

❖ McNicholas

### Project:

❖ Pease Pottage Sewer Works

## The Solution

Terra Solutions carried out two micro-tunnelling drives using their AVN600 and AVN1000 machines with both drives ending in the centre of the roundabout. Site planning and acute management were vital as the potential restrictions to motorist's field of view were closely monitored by the Highways Agency. Heavy restrictions were placed on access and egress to the site and all deliveries and replenishments had to be planned in minute detail to ensure minimal disruption to the project programme and with space on site at an absolute premium, there were no margins for error.

## Results

The skill and expertise of the team on the ground were the most important factors in making sure that this project was able to run its course successfully. The knowledge of the capabilities and expectations of the machinery ensured that water weights and levels were properly maintained, materials were distributed appropriately and that tunnelling works progressed at a steady pace in keeping with the programme.



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