

# The Complete Construction Service



**Donegan**  
Civil Engineering



Title:	<b>Silecroft FTS</b>
Location:	Silecroft, Cumbria
Client:	United Utilities
Project Manager:	Derek Fryer
Main Contractor:	Daniel Contractors
Commenced:	May 2010
Completed:	September 2010
Value:	£275k

#### **Background Of The Works:**

The purpose of the project was to provide First Time Sewerage (FTS) for the collection and treatment of foul sewage from 86 domestic Properties, which previously relied on septic tanks.

This involved the main contractor connecting properties into new foul sewers throughout the village.

One obstruction however was the need to cross underneath a railway line and adjacent private garden.

**Civil Engineering & Tunnelling Contractors**

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## Scope Of The Works:

Sink by caisson a 5.50m internal diameter segmental drive shaft, as can be seen above, approx 8m deep through clays, sands and gravels with tidal water pressure.

Sink by caisson a 4.00m internal diameter reception shaft, shown here on the right, approx 5m deep in similar conditions to the drive shaft.

Carry out a 1000mm micro-tunnel drive approx 100m in length with a Herrenknecht TBM, which would act as a sleeve pipe through which a smaller gravity main could be installed.

As per Network Rails requirements the shafts were constructed outside the 'zone of influence' and during the pipejacking works operatives double shifted through the night until the TBM was recovered from the reception shaft.



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