

# The Complete Construction Service



**Donegan**  
Civil Engineering



Title:	<b><u>Newlands Court</u></b>
Location:	South Shields
Client:	Northumbrian Water
Project Manager:	Ryan Browell
Main Contractor:	Seymour CEC
Commenced:	June 2009
Completed:	August 2009
Value:	£800k

## **Background Of The Works:**

This was a flood relief scheme for Northumbrian Water. Along with upsizing the local sewer network the main contractor Seymour CEC appointed Donegan to construct a 25.00m Internal diameter shaft which would provide an additional 4,000m<sup>3</sup> / 4 million litres of foul water storage capacity.

## **Scope Of The Works:**

Prior to any construction work being carried out, the Main Contractor undertook a reduced level dig in the general area of the shaft.

**Civil Engineering & Tunnelling Contractors**



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Once the working compound had been established, the collar excavation was carried out, and initial rings constructed.

The 25.00m internal diameter segmental shaft was underpinned to a depth of approx 12m in good firm clays.

Once excavation had reached formation level and all the rings had been built grouted and caulked a mass concrete plug was poured.

After the concrete in the plug had cured the steel reinforcement was installed for the structural concrete base slab, with starter bars protruding for the 4 no. concrete support columns, as shown in the picture on the right, for the precast concrete cover slab.



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