

Project Information:

Consultant	JBA
Blackwell Role	Main Contractor
Form of Contract	NEC3 Option B
Contract Start	February 2011
Contract Period	27.4 weeks
Contract Value	£817k

Blackwell Site Management:

Contracts Manager:
Adam Lane

Construction Manager:
Phil Holden

Project QS:
Rob Tacey

Project Office:

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Services Include:

Civil Engineering Earthworks Geotechnical Remediation



Contract Summary:

Oakenshaw Beck, a stream located in close proximity to a large residential area in Agbrigg, was at risk of flooding both in isolation and in combination with the River Calder. In June 2007, severe flooding in Agbrigg was reported to have affected 400 properties and also flooded the A638 Doncaster Road, causing severe disruption. A number of nearby culverts, including those located at Agbrigg Farm and under Doncaster Road, were found to be under capacity which further increased the risk of flooding.

The Flood Alleviation Scheme was designed to provide protection to a 1 in 200-year standard by isolating the area at risk from high levels in Oakenshaw Beck. This was achieved by the construction of a flood embankment and other reinforced concrete structures to complete the defence.

Key Processes:

The works included the following main elements:

- Excavation of made ground (ash) fill material from the main site and disposal on the fill site.
- Flood embankment
- Control structures
- Pumping station and control house
- Parapet wall, floodwalls and floodgates
- Diversion weir, channels, ponds and low flow culverts
- Miscellaneous works including fencing and cable pulling chambers