

Project Case Study: Aldborough Gate, Boroughbridge

Services: Remediation, Roads & Sewers



Demolition | Enabling Earthworks | Remediation | Drilling | Civil Engineering | Plant & Technology | Geotechnical | Environmental | Planning | Renewable Energy

The Sirius Group: Confidence you can build on

Client: Taylor Wimpey, North Yorkshire

Project: Aldborough Gate, Boroughbridge

Duration: 12 months

Services: Demolition, Remediation, Roads & Sewers

Sector: Residential

Contract value: £3.8m



View of the site looking north during the Sirius Civils team roads and sewers installation phase



View of the site looking south during the roads and sewers installation phase

Introduction

Aldborough Gate is a 22 Acre (8.9 Hectare) mostly greenfield development by Taylor Wimpey, just off the A1, Wetherby Road, Boroughbridge, North Yorkshire. When complete it will feature 184 new build homes.

Project Description

The project involved the Sirius Demolition, Remediation and Civil Engineering teams working together on site. Including the demolition of existing residential properties, the removal of the existing pond, construction of roads & sewers, installation of 1,051m³ concrete attenuation tank and a 7m deep pumping station.



Sirius has a fleet of the most up-to-date, fuel-efficient machines equipped with GPS for the most efficient and accurate works

Site Features:

- Greenfield scheme, located off J48 of the A1(M).
- Overlapping disciplines including ground monitoring and settlement testing due to extreme ground conditions.
- Surfacing settlement and monitored surcharge embankment testing carried out over a 3 month period to measure potential settlement.
- Road & Sewer installation between 2-7m deep with extreme ground conditions from 3m, well-point dewatering and interlocking sheet piles were utilised to enable installation.
- Installation of 7m deep 4000mm diameter chamber within severe ground conditions include bore well dewatering and utilising specialist slide rail shoring system.

- Installation of 3 separate SUDS basins including cut, fill, clay forming and soil & seed.
- 1,051m³ pre-cast concrete attenuation tank.
- Successfully delivered during height of pandemic, with all health and safety measures in place and posing a completely separate challenge, over an above the general scheme.



Sewer installation taking place on site



Aerial view of the whole site during initial phases



Installation of 1,051m³ pre-cast concrete attenuation tank

The works were completed on-time, allowing infrastructure and development to progress. The works were tested and validated to the satisfaction of regulatory authorities, supported by early involvement and liaison.

Ground investigations, surveys, geotechnical design, demolition and preparatory earthworks were carried out by Sirius' technical and operational teams using Sirius and contracted plant & equipment.



Sirius site office for planning and operation meetings during the works

Demolition, earthworks, remediation, drilling and civil engineering contractors. Geotechnical, environmental and planning consultants. Renewable Energy.

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