



BELL FARM, BEDFORD

November 2020

www.aarsleff.co.uk

SCOPE OF WORKS 329.4l/m steel sheet piles

EQUIPMENT Hitachi ZX350LC-5, Soiltek S80, Sennebogen 643R, Leader Rig RTG16T

CONTRACTOR Winvic

CONSTRUCTION PERIOD 19th October 2020 - 23rd November 2020



DRIVEN SHEET PILING FOR A 40 ACRE LOGISTICS PARK

On behalf of Winvic, one of the UK's leading 'shed specialists', Aarsleff Ground Engineering were awarded the piling contract for Bell Farm, part of the construction for a new 40-acre logistics park in Bedford.

Having commenced on the 19th October, the piling work followed a 6-week programme whereby Aarsleff installed 329.4 l/m of driven steel sheet piles: a key geotechnical feature for the Bedford Link Logistics Park.

The greenfield site is approximately 4.5km southwest of Bedford Town with a farmhouse and associated outbuildings located to the north west of the site.

The southern east of the site is bordered by A4280. Specifically, Aarsleff Ground Engineering installed 329.4 l/m of AZ12-770 (section modulus of 1245cm³/m) and AZ17-700 (section modulus of 1730cm³/m) steel sheet sections along the western boundary of the site which was complemented with pre-boring and folded steel capping beam to assist a max RH of <3.6m.

Aarsleff Ground Engineering carried out a detailed assessment with care, skill, and diligence to ensure that a final workable

product was fabricated that considered the varying ground stratigraphy.

Aarsleff's design strategically produced 5 sections which accompanied and suited the true ground conditions by defining each section with its own personalised steel section size and length.

Aarsleff employed pre-boring of the pile positions to loosen the surrounding ground to ensure the design toe depth was achieved and to gather observations pertaining to ground conditions.

Aarsleff deployed 5 machines to ensure the piling programme was met without any delays using a Hitachi excavator to offload the steel sheet sections, their Soiltek drilling rig to conduct preboring, a Sennebogen crane to handle and pitch the piles and a leader rig to install and back install the steel sheet sections using driving vibratory hammer.

Aarsleff's work is a fundamental component of commercial building projects throughout the UK, having provided the foundations and geotechnical solutions for many schemes including mega-retail sheds, distribution warehouses, University accommodation and major supermarket and household name units.

Aarsleff Ground Engineering Ltd is the UK trading arm of Danish contracting giant, Per Aarsleff A/S. Incorporated in the UK in 1991, Aarsleff Ground Engineering is one of the UK's leading ground engineering specialist contractors, with piling, geotechnical, and retaining walls divisions. An in-house design team means Aarsleff can offer you a full package of design and installation and we actively promote early consultation for value-engineering to give our clients the best service, design quality, safety factor, and value.

Designed. Delivered. Trusted.

Your ground engineering partner.

Aarsleff Ground Engineering
info@aarsleff.co.uk | Tel 01636 611140