VIBRO PILING

SSTC3 - Sunderland Strategic Corridor Phase 3

CONNECTING THE NORTH EAST

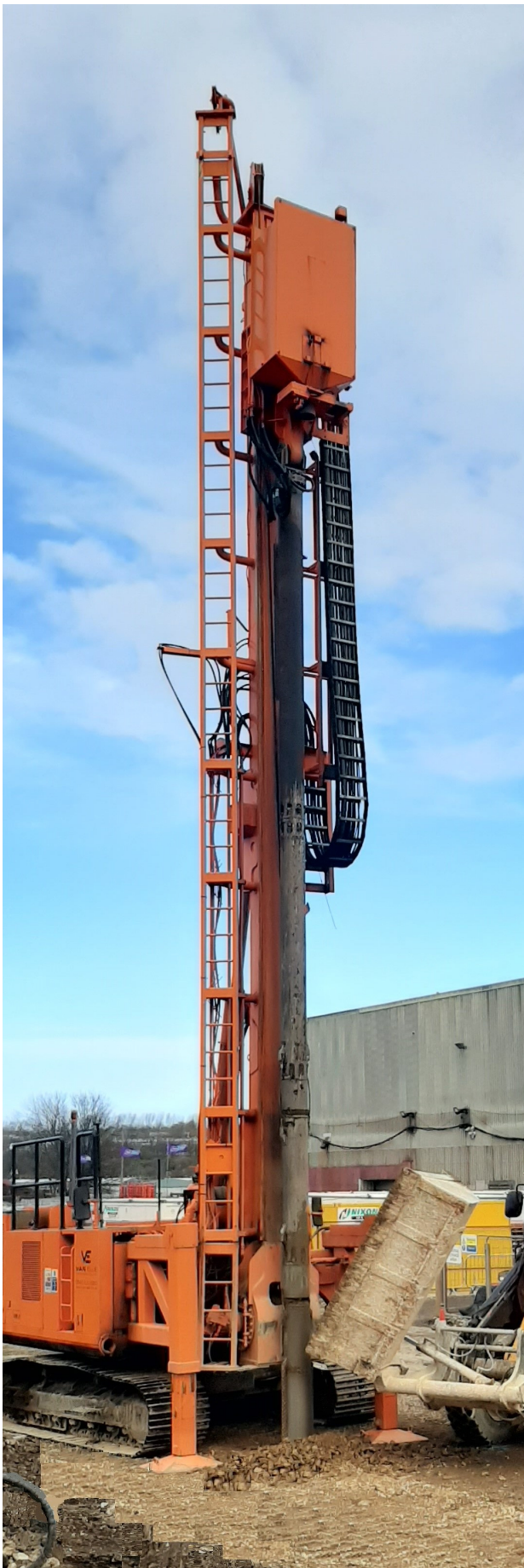
To enable an ambitious £70.8m construction project, ESH Civils partnered with us to support the construction of a brand-new dual carriageway in Sunderland.

Initial ground investigation work on the site revealed that the ground itself would not support the weight of the new road and, given the surrounding environment, access was difficult.

The solution was to utilise our vibro piling technique to install 210no. stone columns to support a Tensar reinforced soilblock wall. This strengthened the ground on site and provided better access for ESH Civils to build the road.

Testing also proved difficult due to the restricted access on site, so a specially designed testing area, which included a two by two metre plate to test columns on, had to be constructed.

“From initial tender enquiry, the professionalism in service and engineering options and solutions were noted and upon contract award, Van Elle swiftly mobilised to site to successfully complete the work. The team’s knowledge and approach was commendable with adherence to health and safety, scope and programme. Our thanks to all involved.” - ESH Civils



OUR APPROACH

Initial design carried out by Byland Engineering, validated and tested by us

210no.
vibro stone columns installed. Used to support a Tensar reinforced soil block in a restricted access site

Bespoke zone load tests built for restricted access working area

Installation of vibro stone columns at depths of **7m-9m** to account for the ground being firm clay overlying limestone bedrock with pre-boring in places

PROJECT STATS

£80,000

2020

ESH Civils

Sunderland

Infrastructure

www.van-elle.co.uk
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VAN ELLE
TOTAL FOUNDATION SOLUTIONS