

HELICAL PILES SUPPORT REINFORCED CONCRETE BEAMS



BRICK AND BLOCK EXTENSION ON PILES

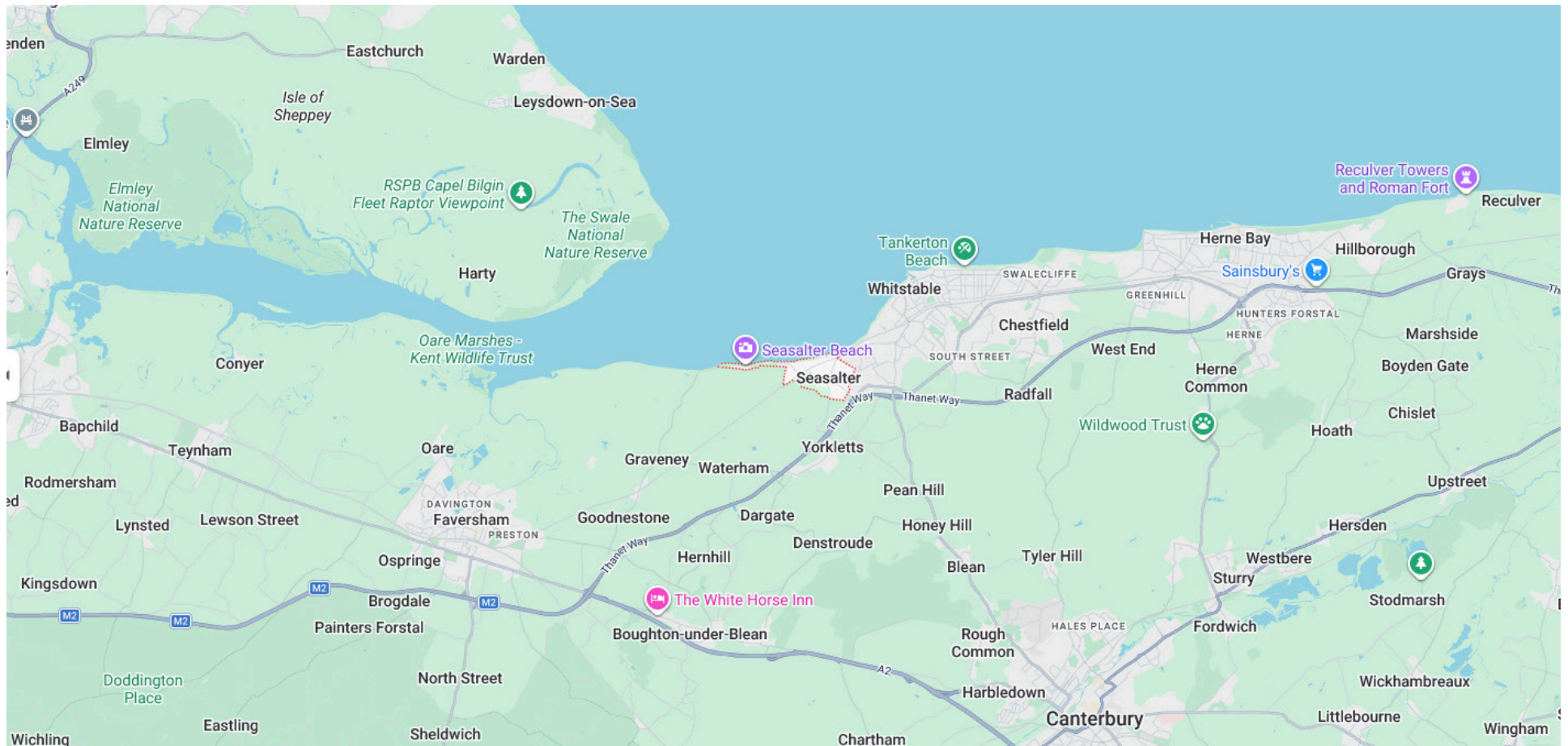
Type of Project

- Installation of helical piles by Techno Metal Post to support reinforced concrete beams for a 31 sqm brick and block extension in Seasalter, UK.



PROJECT LOCATION

Seasalter, Kent, CT5 (United Kingdom)





CHALLENGES

- 1 m deep by 2 m wide excavation requiring long-reach **installation equipment**;
- Proximity to the sea (approximately 30 m);
- Tidal water ingress within the excavation during works;
- No load-bearing strata encountered up to 15 m due to silt deposits;
- Highly corrosive ground conditions due to tidal seawater exposure.



SOLUTIONS

- **12 Techno Metal Post helical piles** (model P3 Ø 88.9 mm), were installed to an average depth of 17 metres, achieving working loads between 85 kN and 130 kN;
- Installation of Techno Metal Post's proprietary cathodic protection system, featuring two impressed current spin anodes, effectively preventing corrosion and ensuring continuous long-term protection;
- Designed service life exceeding 90 years, ensuring durable and reliable performance in a highly aggressive environment.



PROJECT





PROJECT





PROJECT





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RESULTS / CONCLUSION

- Despite challenging ground conditions, tidal water ingress, and adverse weather, all 12 helical piles were successfully installed within 5 days.
- The Techno Metal Post solution delivered a robust and high-performance deep foundation system, providing a stable and durable base ideally suited for the proposed single-storey extension.



DEALERSHIP:
TECHNO METAL POST UK