

Case Studies Series

Structural Underpinning in Tandragee

Project Type: Underpinning
Client: CP Contracts
Location: Richmond Drive Tandragee Co Armagh
Project Duration:



TANDRAGEE, COUNTY ARMAGH

Expertise

Bullivant Taranto Limited were asked to provide a structural underpinning solution for a large detached domestic dwelling in Tandragee, County Armagh which had suffered from subsidence as a result of poorly designed and badly installed traditional concrete strip foundations.

In order to provide the most cost effective and speedy underpinning solution Bullivant Taranto Limited worked closely with structural engineers Taylor & Boyd and loss adjusters for the Insurers, Crawford & Company.

Subsequently Bullivant Taranto Limited were employed by the Main Contractor CP Contract to design and install a piled underpinning scheme to the property.

Solution

To minimise the effect of the underpinning works on the existing gardens, paths and driveways; Bullivant Taranto Limited designed an underpinning scheme that worked fully from internal pile positions. The scheme comprised of over 110 No. 150/100mm driven mini piles, over 85 No. needle and cantilever needle pockets into the existing masonry wall and a fully reinforced piled raft.

During the works the presence of large fill material used in the original construction was uncovered

beneath the existing floor, which inhibited the normal installation of mini piles. As necessary, Bullivant Taranto Limited employed the use of low head room rotary equipment to drill through the existing fill material prior to installing the driven mini piles.

Experience

Bullivant Taranto Limited through our association with Roger Bullivant Limited have been at the forefront of underpinning and mini piling innovation for over 30 years. Our experienced Engineering Team provided a viable, cost effective structural solution to our clients' requirements, whilst our operations Management Team ensured the works were completed on programme and to the exacting levels of quality required on a underpinning scheme. Throughout the works disturbance to the local neighbours were kept to the minimum with the noisiest elements of the works carried out during socially acceptable hours.

On completion of the works Bullivant Taranto Limited provided a 12 year insurance backed guarantee through our Membership of ASUC (Association of Specialist Underpinning Contractors). This guarantee provides easily understood traceability and accountability for the underpinning works for the benefit of the current and any future owners of the property.



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