



## West Hendon Redevelopment CASE STUDY

### THE PROJECT

Regeneration project in Hendon to build 2,000 new mixed tenure homes to provide a thriving and cohesive neighborhood.

### GEOLOGY

Superficial Made Ground and Terrace Gravels overlying London Clay and Lambeth Group Formation.

### REMEDY'S RESPONSIBILITIES

Design of contiguous bored pile retaining walls, bearing piles and technical advice on temporary ground anchors.

### TESTIMONIAL

*"RGL quickly got a grip of the technical challenges of this project and assisted us in getting this complex development out of the ground as fast as possible."*

Mike Bardy, Technical Manager,

## Basement Retaining Walls, Bearing Piles & Ground Anchors

RGL were able to bring their basement and pile design expertise to bear on this flagship development undertaken by Barnet Council, by Barratt London. The challenge was to design and schedule over 400 linear meters of contiguous bored pile retaining wall and 640 bearing piles to facilitate fast track installation by specialist contractor Hill Piling Ltd. Significant economy in the piling was achieved by optimizing the designed pile length following analysis of a 3 cycle load test on a 36m long 600mm diameter preliminary test pile.

RGL designed the one and two storey basement retaining walls (formed from 750mm, 600mm and 450mm diameter piles) to the latest Eurocode standards. RGL had to ensure the retaining wall was designed to enable

the substantial building loads to be carried in the permanent condition.

RGL was able to address, very effectively, the challenges commonly found where deep basements are constructed in a congested urban environment. These included consideration of potential ground movements affecting sensitive party walls, and designing a large span of retained height adjacent to a car ramp.

When the ground worker in charge of excavation of the two storey basement proposed substituting temporary ground anchors in place of the originally specified internal steel propping, RGL were engaged directly by Barratt London to act as their specialist anchor advisor. As it turned out both the piling contractor and their client were able to ....leave the ground to us...!

### CONTACT US

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