# Case Study: Grenadier House



## Client:

Carey London Limited

Housing /Residential

## **Services Provided:**

Piling

**Basement Construction** 

London

£354,896.00

2017





### Overview

The re-development of the former offices for the Ministry of Justice in Westminster. The development is a multi level residential block with basement structure. A relatively small site with a restricted access (rig unloaded off site and tracked in) and tightly positioned perimeter piles in close proximity to third-party structures and boundary limits.

The site was fully demolished prior to pile commencement with temporary propping required for the removal of significant preexisting structural remnants. The depth of the piles required a large CFA rig but the dimensions of the site and the desired sequence of pile construction presented additional challenges regarding the placement of the ancillary plant items (Drum and Pump etc.) and laydown areas. The corner piles within the wall were intended to be constructed using a 'Restricted Access Rig'. Van Elle collaborated with the Main Contractor proposing one rig that could deliver all the required piles, offering both time and cost savings.

The piles were founded in predominantly London Clay and the Pile Design (Eurocode) detailed 2# Static Load Tests which successfully verified the works carried out.

### Solution

The construction of 120 Bearing piles and tower crane base piles of mixed size (450mm and 500mm diameter) to a maximum depth of 27.75m below PPL and 176 Contiguous Wall Piles of 450mm diameter to a max depth of 15.75m below PPL.





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