

Buckingham Gateway, Slough

Our Services

- Value Engineering
- Design Review



Geotechnical Value Engineering and Design Review

Buckingham Gateway in central Slough is being re-developed for commercial and residential use, comprising a six storey superstructure with four storeys of basement.

The basement is to be constructed using a diaphragm wall in ground conditions comprising River Terrace Gravels, overlying highly variable clay, sands, and silts of the Reading Formation, with Upper Chalk at depth. Groundwater was encountered within the River Terrace Gravels, and under sub-artesian pressures within the sands/silts of the Reading Formation beneath an aquiclude of Reading Formation Clay.

CGL was called in to value engineer the diaphragm retaining wall at the request of the structural engineer for the project.

By re-assessing the ground conditions and interpreting the results of in-situ pumping tests, we were able to recommend an average 2m reduction in the toe depth of the diaphragm wall, creating a total cost saving of some £200,000.

Client: Walsh Group for Skanska