



CASE STUDY

Services & Ground Movement Assessment

10b SHEPHERDS BUSH ROAD, LONDON

THE PROJECT

Redevelopment of an inner London site for a new 4 & 6 storey development to include a 6m deep basement.

THE PROBLEM

A 1676mm diameter Thames Water sewer passed under the proposed building requiring an Engineering Assessment of the impacts of the new build.

THE SOLUTION

A numerical 3-D ground movement assessment considering the basement excavation and imposition of new building loads.

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To enable a new 4 and 6 story building development at 10b Shepherd's Bush Road, London to commence, the developer needed to obtain a Build-over Agreement with Thames Water in relation to a 1676mm diameter brick lined sewer running approximately 11m beneath the site. A new 4 to 6m deep basement was required therefore reducing the cover to the top of the sewer from around 11m to as little as 5m. It was therefore necessary to demonstrate to Thames Water that the new development would not adversely impact the sewer.

To do this Remedy Geotechnics was approached by the Scheme Engineer JMS Consulting to advise on the basement construction and foundation impacts.

With their knowledge of Thames Water's requirements, Remedy was quickly able to show that the foundation piles originally proposed could be removed in favour of a simpler, quicker to construct and more cost effective raft foundation.

With this revised design Remedy undertook a 3-D ground movement analysis to predict the ground movements and hence the sewer displacements expected during the basement excavation and from the new building loads.

From the 3D ground model the deformed profile, curvature and diametrical distortion of the sewer could be derived and compared against Thames Water's acceptance criteria. Remedy was therefore able to demonstrate that the proposed development would not adversely impact the Thames Water asset, enabling the developer to obtain the required Build-over Agreement and releasing the site for construction.

Contact Remedy Geotechnics - we'll give you an answer every time.

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