

## LONDON SCHOOL OF ECONOMICS

**Client: LSE | Duration: Ongoing | Value: £4,000,000**

Cantillon were awarded the demolition contract to facilitate the centre buildings development at the London School of economics. Demolition of 30 floors has been undertaken concurrently across the East building, The Anchorage, Clare Market and St Clements East wing. Works were undertaken under a JCT design and Build contract.



Cantillon took possession of the site in July 2015. Our scope included Asbestos removal, soft strip, temporary works, demolition and archaeological attendance.

Given the volume of pedestrians and students, establishing a robust traffic management system was critical. Early demolition of the podium structure enabled the introduction of a dedicated turning circle to remove the need for reversing manoeuvres on the highway.

This high value project is at the heart of the London School of Economics and is being undertaken while the educational facility remains live.

The LSE is one of the top educational facilities within the UK. Maintaining the integrity of the educational environment was a key issue identified by the Cantillon team during the bid process.

Detailed noise models undertaken in advance of demolition identified areas of high noise impact. Following various noise trials, an acoustic shield, some 651.00m<sup>2</sup>, was installed to reduce the noise impact and to control the environmental impact. This system is bespoke and has been designed to suit the unique configuration of this environment.

Noise levels have been reduced to a level lower than the pre-demolition background values as a result of the introduction of the screen, a reduction of some 15dBA on permissible boundary values.

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Once the structures were clear of Asbestos, demolition proceeded with 5t machines in a sequential floor by floor manner. Machine sizes were determined following floor load testing undertaken by Cantillon in house engineering team. Demolition was undertaken concurrently across all buildings.

The sequence of demolition was critical as a series of unplanned service diversions were introduced into the programme by the client team. The team managed to facilitate these and maintain the demolition programme providing a significant time saving to the follow on main contractor's works.

