

25 Chester Terrace

Structural Engineers Report

Date 20 May 2016

Job Number 16010

The existing structure has been fully appraised and the impact of the proposed interventions has been assessed and the negligible impact on structural stability is reported on below.

The overall stability of the building is derived from the general form of this masonry terrace property which has internal walls also of masonry with well distributed walls at right angles to one another. The proposed openings in the walls are modest in extent and require no special provisions to maintain the structural integrity of the building. The whole terrace was renovated and extensively rebuilt circa 1961 internally so is effectively modern construction for which drawings were made available.

The opening up of the roof structure has been designed in a way which minimises the disruption of the existing roof slope and makes use of the existing roof trusses and beams as shown on the existing roof section (plan number 16010 07 rev01). This has been carried out already on many of the adjacent properties.

The proposed roof terrace structure simply entails removing the central flat roof section and adds back structure to form a box allowing the edge of the roof to be cantilevered from the existing roof trusses to overhang the roof terrace and provide framing to the roof and the guarding.

The additional loading of the roof is well within the capacity of the existing building because of the substantial rebuilding in the 20th century as is revealed by the extensive steel framing structure at each floor.

The stability of the existing building is therefore considered to be unaffected by new openings proposed and the construction of the roof terrace, since the existing structure is sufficiently robust to accommodate extensive remodelling.

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Nick Maclean

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