

## ***STRUCTURAL METHOD STATEMENT***

<b>PROJECT</b>	94 Haverstock Hill
<b>PROJECT No.</b>	2201
<b>DATE</b>	23 <sup>rd</sup> August 2016

The following method statements relate to the proposed structural works at the above property.

### **Installation of steel beams at new 3<sup>rd</sup> floor level**

A new floor is to be installed at third floor level with a new mansard style roof construction above. This is to be installed directly above the level of the existing loft floor joists. All external masonry walls are to be propped during the removal of the existing pitched roof and the installation of all the new structural elements.

In order to support new timber floor joists and new mansard roof structure, new steel beams are to be installed which will be supported on the existing external masonry walls. Pockets will be carefully cut into the walls to allow the introduction of mass concrete padstones and the new beams. The ends of the beams will then be encased in concrete. As all external walls are a minimum of 215mm thick, all padstones are to be 100mm wide to ensure no disturbance to the external face of the masonry.

A new steel column is also to be introduced which will support some of the new steel beams. This is to thread through existing non-loadbearing timber stud walls and be supported on the top of an existing column of the same section size at first floor level. Strengthening works are required beneath the concrete padstone supporting this existing steel column. This is positioned at the top of the basement wall. This will be achieved by replacing two courses of existing brickwork directly below the padstone with high strength engineering bricks. This could be done in a 'hit and miss' sequence to avoid temporary propping. The wall strengthening and column installation should be completed prior to the installation of the new third floor.

### **Raising of Chimneys and Party Wall to South-East Elevation**

The original party wall and chimneys are to be raised approximately 1.2m on the south-east side of the building to accommodate the new internal space at 3<sup>rd</sup> floor level. The existing chimneys are currently propped by the masonry party wall and existing timber pitched roof. All propping positions are to be retained relative to the tops of the chimney; no additional structural strengthening works are therefore required.

The chimney pots and flaunching is to be carefully removed, and any damaged or unstable brickwork repaired or replaced. The chimneys and party walls are to be built up in unison. The flaunching and chimney pots then carefully reinstated. The chimneys should remain propped throughout, until the installation of the new mansard roof is complete.