



8-12 Crossley Street . Halifax . HX1 1UG

T: 01422861145 . M: 07450482148

E: info@elysiumstructures.co.uk

Web: www.elysiumstructures.co.uk

Mr Tahir
30a Moulton Street
Cheetham Hill
M8 8FQ

Monday 25th March 2024

**RE: ES970 – Mitigation against Flooding at 30a
Moulton Street, Cheetham Hill**

Dear Mr M Tahir

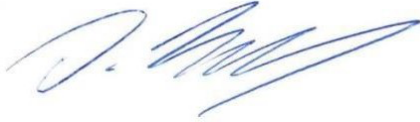
Elysium Structures were instructed by Mr M Tahir to comment on the findings of a Flood Risk Assessment carried out by UK Flood Risk dated 16th January 2024 in support of an extension to 30a Moulton Street. The findings of the report found that the site was in a Flood Risk 3 area, with flooding possible up to 2.4m in water depth.

Based on the findings, we recommend the following actions on a structural level that should be undertaken to safeguard the structural integrity of the property at extreme flooding. These are:

1. The internal and/or external leaf should utilize Engineering Brick or dense stone, based on the Architects specification of walling material.
2. Utilization of water retaining concrete for the strip foundations of the extension.
3. Should a concrete based floor be used, mesh reinforcement should be installed to prevent upwards hydrostatic pressure and fracture.
4. Cavity walls below the flood level to have closed cell insulation to prevent passage of water/contamination

We as structural engineers are satisfied that with use of the above building materials and construction practices; the property's stability shall not be undermined in events of flooding. Should you have any queries, please don't hesitate to contact me

For Elysium Structures



SHAFAKAT BASHIR

BEng, MSc, DIC, MICE, CEng