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Flood Risk Assessment

GTA Civils & Transport specialises in the preparation of Flood Risk Assessments (FRA) and other associated documents, including Flood Risk Management Plans and Drainage Statements.

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GTA Civils & Transport has been successful in obtaining approval for particularly difficult projects, including those lying within areas prone to coastal or river flooding. Surface water flooding is increasingly being treated as strictly as river flooding and we have had numerous successes with these challenges.

We are happy to provide advice on the proposed levels and positioning of buildings in order to maximise the chances of success for our clients, both in relation to Local Planning Authority or Environment Agency approvals and to ensure the long term health and safety of the sites' occupants.

Our appointments have been many and varied, including projects comprising dwellings, commercial, retail, education, public assembly and worship, industrial and agricultural components.

We have helped clients obtain planning permission for new builds, extensions, change of use and divisions (where a single dwelling is split into two or more flats – or HMOs).

Our Services

- Flood Risk Assessments to comply with NPPF and PPG
- Flood plain volumes compensation work
- Sustainable Drainage Systems (SuDS)
- Sewer and watercourse diversions
- Surface and foul water drainage strategy
- Attenuation and storage design for the peak 1 in 100 year storm event (plus allowance for climate change) using MicroDrainage software.
- Soakaway design to BRE 365
- FRAs to comply with current legislation and guidance
- Flood Risk Management Plans

Flood Risk and Legal Policy

The National Planning Policy Framework (NPPF) is the national legal policy document governing flood risk. All developers must comply with it in order to obtain planning consent for their development. GTA Civils & Transport has extensive knowledge of the NPPF and its requirements, having prepared hundreds of Flood Risk Assessments over the eight years that the EA and Local Planning Authorities have required them.

The NPPF requires that all planning applications for sites over one hectare include a formal Flood Risk Assessment – even if the site is not within an area recognised as being prone to flooding. The FRA ensures that all aspects of the surface water strategy are taken into account when the site is designed.

We also prepare Flood Risk Assessments and drainage designs in accordance with BREEAM Pol 3 (surface water runoff) and all other relevant guidance and legislation.

Decades of Drainage Design

Our extensive experience of drainage design means we are very familiar with the requirements of the Environment Agency and other Lead Local Flood Authorities, enabling us to prepare all calculations and design drawings in-house.

Since April 2015, new government guidance requires that Sustainable Drainage Systems (SuDS) are incorporated in all new developments of 10 homes or more and on major commercial developments. Drainage policy dictates that Sustainable Drainage Systems (SuDS) are incorporated in all new developments as far as practical. Lead Local Flood Authorities are also becoming more stringent when examining new schemes. GTA Civils & Transport are experts in designing and incorporating SuDS in our drainage strategies.

GTA Civils & Transport has a successful track record in carrying out Flood Plain Volume Compensation exercises for projects that require them. In certain conditions, where the raising of levels is proposed in a flood plain for instance, it is necessary to replace any volume lost, normally by lowering nearby ground levels. This process involves a strict protocol, imposed by the EA, which can make it particularly time consuming. Our expertise enables us to minimise the time required on such aspects of site design.

Our customers find our fees very competitive; basic Flood Risk Statements start from £550 + VAT (Sites within an undefended Flood Zone 3 are more expensive because of the additional level of detail needed). We provide free, comprehensive quotations with a full breakdown when requested.

Civil Engineering - Transport Planning - Flood Risk

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