

Drainage Strategy Submission Checklist – Major Developments

Site Details	
Development Site (Site Name and Address)	
Borough	
Date	
LPA Reference (if known, or for LPA)	
General Notes	

Drainage Strategy Requirements		Page / Section Reference	Submitted? (For LPA use)
1	Site Details and Surveys		<input type="checkbox"/>
1.1 *	A summary of the proposed works, including location, type of development, number of units and total site area (Ha).		<input type="checkbox"/>
1.2 *	Information on the current site layout, existing drainage system and catchment area(s).		<input type="checkbox"/>
1.3 *	Topographical site information.		<input type="checkbox"/>
1.4 *	Ground Investigation details, providing details on geology, hydrogeology, infiltration rate(s), local groundwater level(s) and potential for site contamination.		<input type="checkbox"/>
1.5 *	Information on local drainage systems, including sewer network, watercourses and waterbodies.		<input type="checkbox"/>
1.6 *	Details of drainage catchment area and Critical Drainage Area (if proposed scheme is within one).		<input type="checkbox"/>
2	Plans		<input type="checkbox"/>
2.1 *	A detailed master plan of the site.		<input type="checkbox"/>
2.2 *	A detailed network diagram for the proposed scheme, demonstrating the location and dimension of every element of the proposed drainage system. This includes labelled details of the sizes (diameter, length dimensions), gradients and locations of the systems pipes and SuDS measures. Details are required to demonstrate how the proposed system ties into the existing hydrological / sewer network to sustainably manage surface water.		<input type="checkbox"/>

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2.3 *	Detailed drawing(s) demonstrating the existing and proposed site sections and levels.		<input type="checkbox"/>
2.4	Proposed landscaping with details of vegetative drainage (e.g. rain gardens, green roofs), if applicable		<input type="checkbox"/>
2.5 *	Details of the storage capacity volumes for the proposed SuDS measures, including size and dimensions.		<input type="checkbox"/>
2.6 *	SuDS and drainage strategy maintenance plan for each drainage component following construction for the lifetime of the development (including maintenance action, maintenance frequency, access arrangements and owner responsible).		<input type="checkbox"/>
2.7	A health and safety plan for the proposed development, if appropriate.		<input type="checkbox"/>
3	Calculations and Assessments		<input type="checkbox"/>
3.1 *	Full calculations demonstrating the peak discharge rates for greenfield conditions and the proposed site, assessing the 1 in 1 year, 1 in 30 year, 1 in 100 year and 1 in 100 year plus climate change storm events. This must demonstrate that runoff rates are being restricted in line with borough requirements. <i>NB: If a greenfield site, greenfield runoff rates must be achieved post-development.</i>		<input type="checkbox"/>
3.2 *	Full calculations for 1 in 100 year and 1 in 100 plus climate change, 6 hour storm events demonstrating that the runoff volume from the proposed development can be constrained to the greenfield runoff volume (or as close as reasonably practicable).		<input type="checkbox"/>
3.3 *	Full design assessments with supporting calculations demonstrating that the proposed drainage strategy can contain a 1 in 30 year storm event without any flooding occurring.		<input type="checkbox"/>
3.4 *	Full design assessments with supporting calculations demonstrating that the proposed drainage strategy ensures that no building (including basements) or utility structure is flooded during a 1 in 100 year and 1 in 100 plus climate change storm event.		<input type="checkbox"/>
3.5 *	Full design assessments demonstrating flooding in excess of 1 in 100 year plus climate change storm events are managed via exceedance flow path routes to minimise the flood risk posed to people and properties on and off the application site. Residual risk considerations.		<input type="checkbox"/>
3.6 *	Details that the SuDS Drainage Hierarchy has been applied, with details of the hierarchical assessment process and the SuDS measures identified to be implemented.		<input type="checkbox"/>
3.7 *	Details of the attenuation storage volumes required for the proposed site for the different analysed storm events.		<input type="checkbox"/>
3.8	Assessment of SuDS infiltration techniques through site specific infiltration testing or bore hole records (if <i>SuDS suitability mapping</i> indicates infiltration based SuDS may potentially be suitable).		<input type="checkbox"/>
3.9	Temporary drainage requirements or discharge points during construction, providing details of pollution prevention measures if required.		<input type="checkbox"/>

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4	Additional Information		<input type="checkbox"/>
4.1 *	Points of discharge information for the surface water runoff from the site, with details of the discharge capacity across the site and details of the connections to watercourses and / or sewers where appropriate.		<input type="checkbox"/>
4.2	Information on discharge rate restriction methods, if appropriate.		<input type="checkbox"/>
4.3 *	Information on the owners / adopters of the proposed drainage strategy once implemented.		<input type="checkbox"/>

* All sections marked with an asterisks (*) show sections that are mandatory when producing a drainage strategy. Requirements not marked with an asterisk are circumstantial to the proposed development so may not be required. For guidance on producing a drainage strategy, see [Section 4](#) of the SFRA.

The requirements of this Drainage Strategy Checklist have been developed based on the 'Detailed Design' stage for the SuDS design process as detailed in CIRIA's [SuDS Manual](#), and DEFRA's [Non-Statutory Technical Standards for Sustainable Drainage Systems](#) document.