SUSTAINABLE DRAINAGE - DETAILED DRAINAGE DESIGN

CHECKLIST 2

The following checklists should be completed by the applicant in order to demonstrate the necessary information has been supplied in order to assess the suitability of the proposed sustainable drainage system.

CHECKLIST FOR SUBMISSION - Detailed Drainage Design		
Ref.	**Detail required**	**Supplied Y/N**
1.	An assessment of suitability for infiltration based on soil types and geology, which should account for: a) The presence of constraints that must be considered prior to planning infiltration SuDS b) The drainage potential of the ground c) Potential for ground instability when water is infiltrated d) Potential for deterioration in groundwater quality as a result of infiltration. Evidence of infiltration tests, particularly at the location of any intended infiltration device, and groundwater level monitoring is also required.	
2.	A Detailed Drainage Plan identifying: a) The proposed 'management train' and total land take b) Location and type of source control c) Site controls with storage locations d) Conveyance and exceedance flow routes e) The destination of runoff and any runoff rate restrictions	

Ref.	Detail required	Supplied Y/N
3.	A Detailed SuDS Design Statement covering: a) Final SuDS to be incorporated and final discharge points where relevant b) How the drainage design satisfies SuDS techniques in terms of water quality and attenuation and discharge quantity for the lifetime of the development c) Proposals, where relevant, for integrating the drainage system into the landscape or required publicly accessible open space and providing habitat and social enhancement d) Calculations showing the pre- and post-development peak runoff flow rate for the critical rainfall event e) Provision of drainage for large storm events, including protection for SuDS systems f) Indication of overland flow routes and safeguarding of properties from flooding g) Any phasing plan for the development h) Management of health and safety risks i) The process for information delivery and community engagement to relevant stakeholders j) System valuation (including capital costs, operation and maintenance costs, cost contributions) and a demonstration of long term economic viability k) Preferred point of connection. l) Proposed method of flow control m) Reason for changes to any previously submitted drainage scheme	
4.	A Method Statement detailing how surface water arising during construction will be handled.	

Ref.	Detail required	Supplied Y/N
5.	Confirmation of land ownership of all land required for drainage and relevant permissions.	
6.	A SuDS Management Plan, which provides: a) Details of which body will be responsible for vesting and maintenance for individual aspects of the drainage proposals b) A management statement to outline the management goals for the site and required maintenance c) Description of maintenance schedule and materials and tools needed d) A maintenance schedule e) A site plan including access points, easements and outfalls.	
7.	Foul drainage proposals.	
8.	Where required for major developments or phasing of minor developments a plan showing each development plot (e.g. a development block of houses) which shows the allocation of volume storage and discharge rate given to that plot as part of a wider SuDS strategy.	

The following applications are not considered to have a significant impact on the sites surface water drainage Therefore the Lead Local Flood Authority will not be providing bespoke comments unless the site sits within a Critical Drainage Area (CDA), as defined in the Surface Water Management Plans (SWMPs).

- **Minerals extraction**
- **Greenfield development that doesn't increase impermeable land by more than 0.5ha**
- **Brownfield development that doesn't increase the impermeable land by more than 0.1ha**