

28 November 2022

SuDS Drainage: Hedge End Phase 2 Retail Park, Southampton SO30 2UH

This letter describes the SuDS drainage solution which has been proposed to meet the SPD Environmentally Sustainable Development Condition 4 - "Reducing Surface Water Runoff". The SuDS design is shown on the following drawings by GTA C&T:

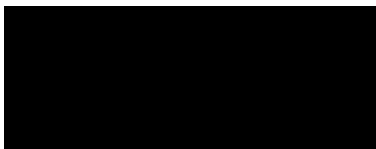
- 11073/1601 – SuDS Drainage Car Park
- 11073/1602 - SuDS Drainage Car Park Catchment Area
- 11073/1701 – SuDS Drainage Details

Description of SuDS Drainage design in car park

The new extension and hard surfaces to the store are not drained by sustainable drainage systems. The most feasible solution to meet Condition 4 is to include SuDS treatment to a portion of the existing car park having an area equal to or greater than that of the new extension (680sq.m).

The drawings referenced 11073/1601 and 11073/1701 by GTA C&T propose a solution within the existing car park. The drawings show 8No bays reconstructed with a lined permeable sub-base. The existing car park drainage is shown diverted through the stone sub-base layer of the reconstructed bays. This provides a level of treatment by filtering the car park runoff before it is discharged off-site.

Drawing 11073/1602 shows the sub-catchment which will be drained through the new bay construction. The sub-catchment area equals 813sq.m which exceeds the area of the new extension to the store of 680sq.m.



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