

STORM WATER DRAINAGE PROPOSALS SHOMREI HADDAS (Unimore) SUPERMARKET

The drainage provision for an infiltration SuDS scheme for the proposed development and compliance with DEFRA requirements will comprise:

- Permeable paving within the proposed car parking spaces at ground floor level.
- Natural drainage through gravel and permeable soils, augmented by designed "French" drains to the sides and below the perimeter of the building at "basement" level.
- Attenuation/storage of the surface water run-off from the roofs of the building and the "hard-paved" impermeable areas within the site boundary at basement and ground floor levels to the rear of the building to allowing run-off to drain naturally over time through the permeable soils to the naturally occurring ground water table at depth.

The details of the site drainage may be summarised as follows (Refer to details on the following page):

1. Building roof drainage will pass through downpipes to a gravity surface water sewer pipe positioned along one side of the building below the perimeter slab leading to the attenuation volume (approx 120m³) located at the front of the property below the "porous" concrete car park hardstanding
2. The area at basement level at the rear of the building comprises a concrete slab with perimeter bund, bounded by the retaining walls to contain rainwater. Rainwater will drain positively via drainage channels to a sump provided with pumps duty/duty to transfer it to the gravity surface water sewer pipe positioned along the side of the building below the perimeter slab leading to the attenuation volume (approx 120m³) located at the front of the building below the "porous" concrete car park hardstanding.
3. The perimeter slabs along the side of the building at ground floor level will not be provided with drainage therefore allowing rainwater to fall away from the building to natural ground.
4. The retaining walls are not provided with drainage at the rear and are not water retaining. Rainfall from behind the retaining walls will arise as ground water and fall to the naturally occurring ground water table at depth either behind the wall or via French drains constructed along the length of the building on each side at basement level.

Please refer to the following page which sets out the proposals:

