PLEASE NOTE:
RWP AND SVP LOCATIONS INDICATIVE ONLY AND SUBJECT TO REVIEW UPON RECEIPT OF ARCHITECTS DRAWINGS.

DRAINAGE ROUTES SHOWN AND PIPE DIAMETERS BASED ON INITIAL ASSESSMENT AND SUBJECT TO DETAILED DESIGN (DRAINAGE AND PROPOSED LEVELS).

Drainage Strategy

The site is located in Flood Zone 1 but is over 100m from the adjacent Postwick Interchange, Norwich.

Although ground conditions are expected to be suitable for the use of soakaways, the site is located in Future Source Protection Zone 1, and this precludes the use of soakaways due to EA and Anglian Water objections, with the exception of roof water.

The site area is 2,044m² and based on W124 method the Greenfield runoff calculated at 7.2%. However Anglian Water have agreed an overall flow rate connection to sewer for flood and surface at 11%. Foul is calculated to be 2.35% which therefore the SWV rate has been set at 8.5%.

Based on this an attenuation tank of 25 x 11 x 2m is required or 522.5m³. This will be formed using geo-textile tanks with 95% void ratio. Please note if HIv parking areas is excluded from development the tank can be reduced to 175m. The geo-textile tanks will be constructed with inlet points to ensure the tank is attenuation only and not to act as an infiltration device in anyway.

This IHv roof water cannot connect to soakaway due to layout constraints, however the 2 no. retail units roof water has been shown to go to soakaway. Detailed attenuation testing has been undertaken on site and the average result is 1.5x10^-5m/s for Unit 1 and 1.387x10^-5m/s for Unit 2. The attached strategy is based on these infiltration rates for the retail units roof water drainage.

Floors will be controlled with pumping station which will discharge to soakaway Anglian Water sewer approx 100m to the west. It is assumed a regulation sewer and pumping will be required for the development subject to further liaison with Anglian Water to determine the scope of any off site drainage works required.

No foul water assets are located nearby and foul drainage via infiltration will not be viable due to the proposed site use and the site layout being too constrained in terms of suitable landscaped area for locating a drainage field. It is assumed a regulation sewer and pumping will be required for the development subject to further liaison with Anglian Water to determine the scope of any off site drainage works required. Should a suitable outlet to sewer not be viable then the site would have to discharge foul to soakaway.