

NOTES

1. This drawing is PRELIMINARY only and is not to be used for Construction.
 2. This drawing to be read in conjunction with all other relevant Engineers and Architect's details.
 3. All work is to be carried out in accordance with the current British Standards, codes of practice, building regulations and with Sewerage Sector guidance.
 4. The exact position, level, size and use of existing sewers to be confirmed on site. Any discrepancies to be reported to the Engineer prior to commencement of works.
 5. All uncovered and shallow pipework to be protected against construction traffic as part of the Contractors temporary works requirements.
 6. All connections to road gullies and channels shall be 150mm nominal bore pipework.
 7. All pipework to be U-PVC type in accordance with WIS 4-35-01 unless otherwise noted.

Drainage Strategy Summary

1. Drainage Principles
 1.1. Single SW drainage system for Private areas and Adoptable highway.

1.2. Gravity sewer with connection and outfall to existing watercourse. To be adopted by STW and LCC.

2. Existing Site Conditions

3. New Development

3.1. Connection to unnamed watercourse to western site boundary.

4. Infiltration

4.1. Infiltration is not feasible on site, due to underlying geology.

5. SW drainage design

5.1. A system of gravity sewers is proposed to convey surface water catchment to unnamed watercourse to western site boundary.

5.2. The SW discharge is to be restricted to 4.34l/s/ha, and attenuated via an online SuDS detention basin.

5.3. The SuDS detention basin is to include features to control the pollutant risk, including on line basin, sediment forebay, reed beds and bio-retention areas.

6. Foul Drainage Design

6.1. Private foul outfall at within Flanders Close, and a Private Foul Water Pumping Station at the western site boundary.

6.2. All foul drainage on site TO be private owned.

6.3. Locations for discharge agreed with STW.

7. Mitigation

7.1. As per SuDS manual guidance, as shown in table.

8. Pollution Control

8.1. Simple Index method assessment as per SuDS Manual C753.

8.2. Total mitigation indices exceed pollution hazard indices.

8.3. Proposed SW strategy adequately mitigate pollutant risk

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Internal foul drain pipe minimum gradients:

• 1:80 from SVP & WC to IC

• 1:40 from Basin & Sink to IC

Refer to Architect's S&M&E drawings for pipe sizes and setting-out information.

Maximum Drainage Access Chamber Depths:

• 0.931mm PPC - 1.2m - Type 4 (BS EN 13598-2)

• 0.945mm PPC - 3.0m - Type 3/4 (BS EN 13598-2)

• 0.600mm PPC - 3.0m - Type 3 (BS EN 13598-2)

• 0.120mm Concrete - 6.0m (with standard detail)

All drainage to be constructed in accordance with Sewer Sector Guidance and Building Regulations Part H.

A CCTV trace and level survey of the as-built drainage to OS Datum and Grid to be undertaken by the Contractor and provided to the Engineer for final approval.

Sewer details shown have been taken from Severn Trent Water sewer records. Contractor to validate drainage locations and levels prior to commencement of the works.

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