

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.
8. All pipes connecting to adopted manholes up to and including 300mm dia to be Wavin Ultrarib or similar approved.

9. All pipes connecting to adopted manholes greater than 300mm dia. to be Concrete or approved U-PVC.

10. All pipework entering and exiting manholes to be connected with pipe soffits level.

11. All works are to be to the satisfaction of the Engineer, Building Officer, Severn Trent Water, local authority Highway & Flood Planning Officer.

12. All in situ services and drainage networks are to be located and protected as necessary by the Contractor prior to the commencement of the works.

13. For all surface treatments and finishes refer to the Architect's details and specifications.

Drainage Strategy Summary

1. Drainage Principles

1.1. Single SW drainage system for Private areas and Adoptable highway. Network to be adopted by STW and LCC.

1.2. Gravity sewer with connection and outfall to existing watercourse.

2. Existing Site Conditions

3. SW Outfall

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 434l/s/ha, and attenuated via an online SuDS detention basin.

5.3. Filter drains are to be installed on the majority of shared drives.

5.4. 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. FW Drainage Design

6.1. Private gravity 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. Maintenance

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.

Minimum pipe cover to soffits to be per the Sewer Sector Guidance Appendix C BS 1.7:

- ◊ 0.35m - domestic gardens and pathways without vehicle access
- ◊ 0.5m - domestic driveways, parking areas and yards for vehicles
- ◊ 7.5T gross weight
- ◊ 0.9m - domestic driveways, parking areas, shared spaces with limited access for vehicles >7.5T gross weight
- ◊ 0.9m - agricultural land and public open space
- ◊ 1.2m - highway and parking areas with unrestricted access for vehicles >7.5T gross weight

Any pipes with cover to soffit less than those stated above are to have a Class Z concrete pipe bed & surround.

Internal foul drain pipe minimum gradients:

- ◊ 1:80 from SVP & WC to IC
- ◊ 1:40 from Basin & Sink to IC

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

Maximum Drainage Access Chamber Depths:

- ◊ Ø315mm PPIC - 1.2m - Type 4 (BS EN 13598-2)
- ◊ Ø450mm PPIC - 3.0m - Type 3/4 (BS EN 13598-2)
- ◊ Ø600mm PPIC - 3.0m - Type 3 (BS EN 13598-2)
- ◊ Ø1200mm Concrete - 5.0m (with standard detail)

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

All CCTV, trace and level survey of the as-built drainage to OS Datum and Grid is 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.

Construction Note:

It is essential that new drainage associated with the development is laid from the outfall(s) into the site. This is essential to avoid unforeseen obstructions along drainage route (such as unrecorded services). If the drainage is laid from the site out to the outfall, it can result in significant abortive works and costs for the Contractor to relay and overcome such obstructions.

	Land Use	Total Suspended Solids	Metals	Hydrocarbons
Site Hazard Risk	Individual property driveways, residential car parks, low traffic roads (eg out-de-sacs, homezones and general access roads) and non-residential car parking with infrequent change (eg school off-streets) <= <300 traffic movements/day	0.5	0.4	0.4
Mitigation indices of proposed SW strategy	Filter Strips	0.4	0.4	0.4
	Detention Basin	0.5	0.5	0.6
	Is Total Mitigation greater than Risk?	TRUE	TRUE	TRUE



PLANNING

- General Notes
- DO NOT SCALE.
 - This drawing is to be read in conjunction with all other relevant drawings and details.
 - Should there be any conflict between the details indicated on this drawing and those on other drawings the Engineer should be informed PRIOR to construction on site.
 - Until technical approval has been obtained from the relevant Authority, it should be understood that all drawings issued are Preliminary and NOT for construction. Should the contractor commence site work prior to such approval being given it is entirely at his own risk.
 - Sketch proposals are for illustrative purposes only & as such are subject to detailed site investigation including ground conditions / contaminants, drainage, design & planning density negotiations.
 - All dimensions are in millimetres unless otherwise stated.

NOTES

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- All work is to be carried out in accordance with the current British Standards, codes of practice, and building regulations.
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- Based on Topographical Survey drawing reference S3409/01 undertaken by NUC Surveys dated April 2022.

LEGEND

- Development Boundary
- S104 Surface Water Sewer
- Private S50 Foul Water Drain
- Private S50 Foul Water Rising Main
- Flow Control Chamber (Discharge Rate as noted)
- Sewer Easement - 2.5m from pipe centre
- Foul Pumping Station Easement - 5.0m from trees or boundaries, 7.0m from dwellings
- Private Lateral Chamber Ø1200
- Private Surface Water Filter Drain
- SuDS Detention Basin
 - ◊ Vegetated (1:3 slopes)
 - ◊ Sediment Forebay with Permeable Bund
 - ◊ Low Flow Channels
 - ◊ Permanent Pond (450mm deep with 1:4 slopes)
- Type B Permeable Paving with catchpits and perforated pipe collector drains and positive outfall into surface water drainage network

Surface Water Network Summary

Allowable Runoff : 5.10l/s (4.34l/s/ha)
Impermeable Area : 11,734m² or 1.173ha
(7,976m² Road + 5,435m² Plots and Externals)
Impermeable Area inc 10% UC : 13,411m² or 1.341ha
Note: 10% Urban Creep applied to all development areas within hydraulic model and does not include adoptable roads.
Note: Outfall discharge rate and location point taken from Rodgers Leask FRA 19409-RL-20-XX-RP-C-001 dated November 2020.

P02	Updated to suit LLA comments dated 12.11.2025, permeable paving added and legend updated	12.01.26	JD	DS	DM
P01	Planning Issue	29.09.25	JD	DS	DM
Issue	Description	Date	By	Check	Appr

THE DAVEY CORPORATION

civil | structural | highways | flood risk

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Job: Burbage Field Farm, Bulfrush Lane, Burbage

Drawn: DM
Checked: JD
Date: September 2025
Scale: 1:500 (p.40)
Status: Planning

Title: Drainage Overview Sheet 1 of 2

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SAFETY, HEALTH AND ENVIRONMENTAL HAZARD INFORMATION BOX

THE HAZARDS NOTED BELOW ARE IN ADDITION TO THE NORMAL HAZARDS AND RISKS FACES BY A COMPETENT CONTRACTOR WHEN DEALING WITH THE TYPES OF WORKS DETAILED ON THIS DRAWING.

CONSTRUCTION RISKS

LIVE DRAINAGE
LIVE SERVICES
LIVE HIGHWAY

MAINTENANCE / CLEANING RISKS

NONE RELEVANT TO THIS DRAWING.

DEMOLITION RISKS

NONE RELEVANT TO THIS DRAWING.