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DRAINAGE NOTES:

1. Do not scale.
2. Refer to all other Project Drawings and supporting notes.
3. All adoptable drainage works to be constructed as detailed in Design and Construction Guidance or as stipulated in the Water Authorities Addendum.
4. All public sewers are to be the subject of a Section 104 agreement of the Water Industry Act 1991.
5. Invert levels of existing manholes and sewers are to be checked on site before construction commences and results reported to engineers.
6. The Contractor is responsible for maintaining continuity of flow for all existing sewers within the site boundary and limit of works for the duration of the project.
7. All drainage ironworks to comply with BS EN124, and be stamped with BSI Kitemark. Covers to suit loading as below;
 -Carriageways and Roads - E600
 -Driveways and Verges - C250
 -Footways and Pedestrian Areas - B125
 -Gardens/Landscaping - A15
8. All sewer pipes, up to, and including 225mm are to be vitrified clay to BS EN295. All sewer pipes 300mm diameter and above to be concrete pipes to BS EN1916. Where agreed with adopting authority pipes up to and including 600mm diameter can be PVC-U to BS EN1401.
9. All drainage shall be installed and tested strictly in accordance with the Manufacturers' printed instructions, BS EN 752, BS EN 1601, Local Water Authority requirements and the Building Regulations.
10. All bedding shall be Class S unless noted otherwise.
11. All trenches under existing and proposed public highways are to be backfilled with thoroughly compacted Type 1 granular sub-base material.
12. Drainage laid beneath roads and areas of vehicular access (car parking etc) with less than 1200mm of cover shall be encased in concrete bed and surround with associated movement joints. Drainage laid beneath paths, footways and pedestrian areas with less than 900mm of cover shall be similarly treated.
13. Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other approved safety devices.
14. The use of precast concrete products made with sulphate resisting cement is mandatory, unless a laboratory report proves such precautions are not necessary.
15. All gully connections to use a minimum diameter pipe of 150mm and to be surrounded by a minimum of 150mm of grade C8/C10 concrete over its full length (which should not exceed 15m) and its connection to the carrier system.
16. All sewers to be abandoned must be surveyed to identify any lateral connections that are still live with any found to be reported to the Engineer.
17. All laterals to be 150mm unless otherwise stated.
18. All private drains to be 100mm diameter unless otherwise stated.
19. All foul and storm water drains which are not to be adopted as public sewers shall be in accordance with Document H of the Building regulations, together with NHBC Standards Chapter 5.3 and BS8301.
20. Where pipes pass through footings, retaining or screen walls, lintels to be provided over drains.
21. Where inverts are less than 0.6m deep inspection chambers (min dia. 190mm) or access fittings (225 x 100mm) to be used, elsewhere proprietary plastic, brick or pcc is to be used and sized in accordance with Table 11 of Document H of the Building Regulations [<0.6m to invert min DN300, >0.6m to invert min DN475].
22. All gullies connected direct to drains to be roddable.
23. Rainwater downpipes to be easily removable for rodding or to be provided with rodding access at ground level.
24. Adequate precautions in accordance with Approved Document H and manufacturers's recommendations to be taken to protect drains (particularly plastic) at shallow depths.
25. Catchpits to be as IC's but with 300mm sump below outgoing pipe invert level except where detailed elsewhere.
26. Trees and shrubs of a large size or heavy canopy with a moderate or high water demand must not be planted within any sewer easement.
27. Gullies within and adjacent to area of site works to be suction cleansed at commencement and completion of works.
28. Where required 1m deep root barrier of an approved type to be installed vertically along the back edging kerb of all areas of footway/ demarcation to protect from both proposed and future plantation.

KEY

FOUL

STORM

- Proposed adoptable sewer & MH
- Proposed Link Road sewer and MH
- Highway gully and 150mmØ connection
- Proposed Control Manhole
- Proposed Catchpit Manhole
- Proposed Foul Water Rising Main (Refer to Drawing A389-089 For Details)
- Proposed Private Surface Water Drains
- Proposed Private Foul Water Drains
- Rodding Eye
- Private yard gully
- Precast linear drainage channel
- Private Filter Drain
- Proposed road contours (major at 250mm intervals, minor at 50mm intervals)
- Proposed Althon H50C Headwall
- Proposed Althon H6C Headwall
- Cellular Storage
- Proposed Permeable Paving
- Proposed Rain Garden Tree Pit and Outfall
- 42.50 Proposed Finished Floor Level. (G) denotes garage slab level
- Embankment, typically 1 in 3, No steeper than 1 in 2.

PROPOSED 369 m² PERMEABLE PAVING.

PROPOSED CONTROL MANHOLE WITH VORTEX CONTROL DEVICE & WEIR WALL. VORTEX CONTROL DEVICE TO LIMIT FLOWS TO 3.7 l/s. WEIR WALL INVERT LEVEL 66.75.

PROPOSED OFF-LINE 130.50m³ x 1.2m DEEP POLYSTORM-R CELLULAR STORAGE OR SIMILAR

PROPOSED OFF-LINE 91.5m³ x 0.8m DEEP POLYSTORM-R CELLULAR STORAGE OR SIMILAR

PROPOSED OFF-LINE 0.8m DEEP POLYSTORM-R CELLULAR STORAGE OR SIMILAR BASE LEVEL 72m² x 0.4m DEEP 2nd LEVEL 32m² X 0.4m DEEP

PROPOSED OFF-LINE 0.8m DEEP POLYSTORM-R CELLULAR STORAGE OR SIMILAR BASE LEVEL 78m² x 0.4m DEEP 2nd LEVEL 47.5m² x 0.4m DEEP

PROPOSED 530m³ x 1.8m DEEP ATTENUATION BASIN WITH 1 IN 3 SIDE SLOPES. COVER LEVEL 64.25 INVERT LEVEL 62.45

PROPOSED ON-LINE 63m³ x 1.2m DEEP POLYSTORM-R CELLULAR STORAGE OR SIMILAR

PROPOSED FOUL CONNECTION TO PUMPING STATION SUBJECT TO SPECIALIST DESIGN.

PROPOSED CONTROL MANHOLE TO CONTAIN VORTEX CONTROL DEVICE TO LIMIT FLOWS TO A MAXIMUM 4.5 l/s FOR ALL EVENTS UP TO AND INCLUDING THE 1 IN 100 YEAR EVENT WITH A 40% ALLOWANCE FOR CLIMATE CHANGE.

PROPOSED OFF-LINE 69m³ x 1.2m DEEP POLYSTORM-R CELLULAR STORAGE OR SIMILAR

PROPOSED 1690m x 2m DEEP ATTENUATION BASIN WITH 1 IN 3 SIDE SLOPES. COVER LEVEL 63.70 INVERT LEVEL 61.70

PROPOSED CONTROL MANHOLE TO CONTAIN VORTEX CONTROL DEVICE TO LIMIT FLOWS TO A MAXIMUM 9.76l/s FOR ALL EVENTS UP TO AND INCLUDING THE 1 IN 100 YEAR EVENT WITH A 40% ALLOWANCE FOR CLIMATE CHANGE.

PROPOSED OFF-LINE 151.5m³ x 0.8m DEEP POLYSTORM-R CELLULAR STORAGE OR SIMILAR

PROPOSED Ø300MM FOUL STUB @ 1:300 TO ALLOW FOR FUTURE DEVELOPMENT. STUB TO BE CAPPED.

PROPOSED 513 m² PERMEABLE PAVING.

PROPOSED 355 m² PERMEABLE PAVING.

Stub pipe provided for future connection.

Stub pipe provided for future connection.

Stub pipe provided for future connection.

Stub pipe provided for future connection.

Stub pipe provided for future connection.

TPO 1376/2011 - T16

TPO 1376/2011 - T17

BASIN 2

0 5 10 15 20 25m
Scale 1: 500

Rev	Date	Description	Drawn	Checked
C2	02.26	FOR CONDITION 31 SUBMISSION	RF	RF
C1	08.25	CONSTRUCTION ISSUE	CLL	RF

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Client
MILLER HOMES

Project
SOUTH WOKINGHAM SDL
PHASE 2B R10
DETAILED DESIGN

Title
DRAINAGE
OVERVIEW PLAN

Status

Scale	Date	Drawn	Checked
1:500 @ A0	AUG 2025	CLL	RF

Drawing No: A389-R10-DD-500
Revision: C2