SECTION 104 AGREEMENT LEGEND

- F1 — PROPOSED ADOPTABLE WATER SECTION 104 FOUL SEWER (Refer to manhole schedule for ring Ø)
- S2 — PROPOSED ADOPTABLE WATER SECTION 104 SURFACE SEWER (Refer to manhole schedule for ring Ø)
- F1 — PHASE 1B PROPOSED ADOPTABLE WATER SECTION 104 FOUL SEWER (Refer to manhole schedule for ring Ø)
- S1 — PHASE1B PROPOSED ADOPTABLE WATER SECTION 104 SURFACE SEWER (Refer to manhole schedule for ring Ø)
- RG — OXFORDSHIRE COUNTY HIGHWAY ADOPTABLE ROAD GULLY (150mmØ pipe connection)
- SURFACE WATER MANHOLE (Private) (Precast concrete ring 1.2mØ chamber built to adoptable standard)
- PRIVATE FOUL WATER INSPECTION CHAMBER (PVCu 450mm DIA. Max 1.2m depth - reduced access to 3.0m)
- PRIVATE SURFACE WATER INSPECTION CHAMBER (PVCu 450mm DIA. Max 1.2m depth - reduced access to 3.0m) (300mm min catchpit directly upstream of soakaway)
- ADOPTABLE SEWER EASEMENT (3m min unless otherwise shown)
- DEVELOPMENT BOUNDARY

OS NORTH

KEY PLAN

Section 104 Specification Notes:

1. The planning, design and construction of sewers shall be in accordance with Sewers Sector Guidance Appendix C; Design and Construction Guidance, the Civil Engineering Specification for the Water Industry 7th Edition and Severn Trent Water amendments to CESWI.
2. All Adoptable sewers within adoptable highway with less than 1.2m cover to have reinforced concrete slab protection. All Adoptable sewers within grassed areas with cover less than 0.9m to have reinforced concrete slab protection. All areas with greater cover than the minimum required to have type S bed and surround.
3. MH covers & frames shall be ductile iron with a minimum square opening of 675x675mm. Covers shall be double triangle for 675mm square openings and be provided with loose bolted connections. Frame depths shall be 150mm but in any case all frames shall comply with DCG clause E2.32 & Table 6 (page 107).
4. Sealed and lockable covers to be supplied where specified on manhole schedule.
5. Use of this drawing does not absolve the client from his responsibilities under the Health and Safety. The Construction Design and Management Regulations 2015. The Principal Designer is required to contact Hydrock Consultants prior to permitting this drawing to be used in connection with any construction works.
6. All private drainage to comply with current Building Regulations, BS EN-752 Drain and Sewer systems outside Buildings and other relevant British Standards and Codes of Practices.
7. The minimum size of sewer where guide bars, safety chains, or other safety devices are required in Manholes shall be 600mm diameter.
8. All sewers to be laid soffit to soffit unless otherwise shown.
9. Prior to laying any material the subgrade must be inspected and any soft spots removed and filled with Type 1 material to SHW Clause 803
10. It is the Contractors responsibility to locate existing services on site accurately.
11. The Contractor should comply with hs(g) 47 "Avoiding Danger from Underground Services" when excavating around existing services.
12. The Contractor is to verify the line, level and diameter of existing sewers before commencing drainage works.
13. Contractor to provide temporary screens in each of the down stream manholes during the construction period of the development in accordance with DCG B5.2.23.
14. All in-situ concrete and precast concrete components to be manufactured using Sulphate Resisting Portland Cement, (SRPC) to BS 4027, if required, subject to soil conditions.
15. All manholes should have a concrete surround. Concrete rings shall be sealed using "Tokstrip" and lifting eyes pointed with resin modified mortar.
16. Clay pipes to be vitrified clay to bs en 295-1:1991
17. Crushing strength of clay pipes to be as follows:Ø

crushing strength	
150	40
225	45

18. Manhole components to be to bs en 1917:2002
19. All levels are to OS datum.
20. Compliance with Health & Safety matters on any trench/manhole is obligatory and a permit to enter a confined space is required when connecting site drainage to the existing public sewerage system. A permit to enter a confined space will be obtained from Thames Water Ltd prior to the works commencing on any public sewerage system.
21. The use of ladders or steps in manholes, wet wells and valve chambers shall comply with the following: Steel plastic encapsulated MH single steps shall not be used in MHs of a greater depth then 1.0m. Steel plastic encapsulated double steps shall be provided in MHs up to 3.0m in depth. Ladders shall be provided in accordance with BS 4211 in MHs between 3.0 & 6.0m deep. MHs greater than 6.0m deep shall be specially designed and have intermediate landings. Access holes in intermediate landings shall be provided with galvanised mild stell gratings to prevent persons falling through. The design of deep MHs shall permit the use of a winch or lifting gear mounted at ground level in case of emergencies.
22. Only low carbon steel or stainless steel ladders for vertical fixing to MHs will be acceptable.
23. Proposed adoptable sewers are only permitted to have other sewer/gully connections and other services laid at an angle of between 45° and 90° across the line with a vertical clearance in excess of 300mm.
24. All ironwork to be kite marked by BSI or certified by equal inspection authority.
25. Red coloured plastic marker tape at least 150mm wide shall be laid at a minimum of 200mm above the soffit of the pipe. The tape shall be printed with the words GRAVITY SEWER in bold capital letters throughout its length and at intervals not exceeding 700mm and shall incorporate a corrosion resistant tracing system for no-metallic pipes.
26. Where the proposed site drainage connects to the public sewerage system either by new junction, new manhole or at an existing manhole, it will require the submission of a S106 application for sewer connection form to Thames Water Ltd prior to works commencing.
27. Where sewers are to be constructed inside the restricted tree root zone a suitable tree root protection barrier is to be installed to Severn Trent's specification.
28. Any and all construction undertaken prior to technical approval is done so at risk.

Note designs are subject to S104 and S38 technical approval.
Any construction undertaken prior to approvals are at the sole risk of the client.

REVISIONS

C01	20/12/24	Layout updated. Construction Issue	SM	OD	OD
P02	13/09/24	Plots 1-20, roads and sewers issued for construction.	JH	OD	OD
P01	09/07/24	First Issue.	DN	OD	OD

Rev	Date	Description	By	Ckd	App

Hydrock
OVER COURT BARNS
OVER LANE
ALMONDSBURY
BRISTOL
BS32 4DF
t: +44 (0) 1454 619533
e: bristol@hydrock.com

CLIENT
CALA HOMES COTSWOLDS LTD

PROJECT
HIMLEY VILLAGE, BICESTER

TITLE
PHASE 2A SECTION 104 AGREEMENT

HYDROCK PROJECT NO.	SCALE @ A1
C-27141-C	1 : 500

STATUS DESCRIPTION	STATUS
FOR CONSTRUCTION	A1

DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)	REVISION
27141-HYD-PH2A-XX-DR-C-0100	C01