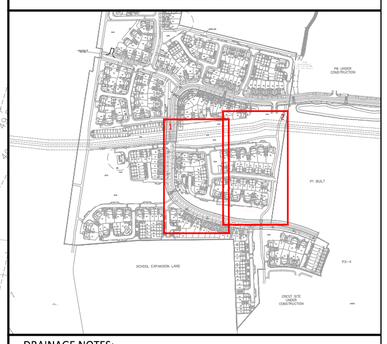
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DRAINAGE NOTES:

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 - D400
   -Driveways and Verges - C250
   -Footways and Pedestrian Areas - B125
   -Gardens/Landscaping - A15
7. Where agreed with adopting authority pipes up to and including 600mm diameter can be PVC-U to BS EN1401-1. Where not agreed, 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.
8. 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.
9. All bedding shall be Class S unless noted otherwise.
10. All trenches under existing and proposed public highways are to be backfilled with thoroughly compacted Type 1 granular sub-base material.
11. 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.
12. Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other approved safety devices.
13. The use of precast concrete products made with sulphate resisting cement is mandatory, unless a laboratory report proves such precautions are not necessary.
14. 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.
15. 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.
16. All laterals to be 150mm laid at 1:80 (surface) or 1:60 (foul) unless otherwise stated.
17. All private drains to be 100mm diameter unless otherwise stated.
18. 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.
19. Where pipes pass through footings, retaining or screen walls, lintels to be provided over drains.
20. 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].
21. All gullies connected direct to drains to be roddable.
22. Rainwater downpipes to be easily removable for rodding or to be provided with rodding access at ground level.
23. Unless noted otherwise FW IC's and RE's to be 0.6m below DPC level, SW IC's and RE's to be 0.45m.
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.
29. Foul water IC's to be 750mm below FFL, unless noted otherwise.
30. Surface water IC's to be laid 600mm below external level, unless noted otherwise.
31. Rodding eye's to be laid 450mm below external level, unless noted otherwise.

ADOPTABLE DRAINAGE KEY

- S41 IL: 52.502 — Proposed Surface water
- F08 IL: 51.567 — Proposed Foul water
- Proposed highway gully and connection
- Proposed basin headwall
- SB12 — Exisiting Surface water
- FC13 — Existing Foul water
- F57 — Proposed Basin Contours (major at 1m intervals, minor at 0.25m intervals)
- 55.00 — Proposed Sewer Easement

PRIVATE DRAINAGE KEY

- S53.20 — Proposed Surface water
- F53.45 — Proposed Foul water
- Proposed Permeable Paving
- Proposed Diffuser
- Proposed private headwall
- Precast Linear Drainage Channel
- Threshold Drain
- Private filter drain
- Private land drainage
- Private gully

FOR CONSTRUCTION

THIS DRAWING IS NOT TECHNICALLY APPROVED
ISSUED FOR CONSTRUCTION AT RISK
AS PER CLIENT INSTRUCTIONS

Rev	Date	Description	Drawn	Checked
I	10/26	Cover levels updated to F58, F59, F60 & F61	MR	SI
H	09/26	Manhole F27 IL updated and downstream pipe gradient updated to 1:80	MR	SI
G	09/26	Lateral connections changed to private drainage system. Private Headwall added to key.Basin notes changed to 1 in 2 gradient	RP	SI
F	09/26	Surface Water MH's IL values amended	DC	MR
E	09/26	Foul laterals F126 and F131 updated. Backdrop added to MH F30. Issued for Construction	MR	SI
D	05/26	Private drainage updated to plot changes	DC	SI
C	04/26	Land Drainage added	DC	SI
B	09/25	Updated Layout	TC	SI
A	08/25	Updated to latest layout and client comments	CLL	SI
-	08/25	First Issue	TC	SI

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Client
CALA HOMES

Project
A252 - WILLINGTON DOWN PHASE 8 (55 UNIT PARCEL) DETAILED DESIGN

Title
DRAINAGE LAYOUT SHEET 2

Status
FOR CONSTRUCTION

Scale	Date	Drawn	Checked
1:250 @ A1	AUG 2025	TC	SI

Drawing No: 00421_2004
Revision: I

SEE INSET 1 FOR CONTINUATION

INSET 1

EXTENT OF GAS EASEMENT

PROPOSED 708m³ x 1.5m DEEP ATTENUATION BASIN WITH 1 IN 2 SIDE SLOPES.
COVER LEVEL 50.10
INVERT LEVEL 48.60
LOW FLOW CHANNEL INVERT 48.50
SEDIMENT FOREBAY 150mm HEIGHT
300mm WIDTH

Tie in to previously constructed scheme, refer to Phase 1 Infrastructure drawings A252-01-INF-402, 502, 701 & 901

Tie in to previously constructed scheme, refer to Phase 1 drawings A252-01-101, 114, 504, 535, 724 & 901

Proposed Footbridge. Design & specification by others

Tie in to previously constructed scheme, refer to Primary Infrastructure Phase 2 drawings A085-PIA-PH2-105, 255, 505, 705 & 905

PHASE1

SUDs