PHASE: 0

MH No.	DIAGRAM	MANHOLE DIMENSION (mm)	MANHOLE TYPE	COVER TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING (m)	NORTHING (m)
HB1		1200Ø	Type D	D400	3.635	2.970	0.515	489154.748	99525.643
S4		900x600	Type D	D400	3.663	2.985	0.528	489156.213	99527.750
S1 - OP		600x900	Type D	D400	5.042	4.419	0.473	489250.428	99575.407
S2 - OP		900x600	Type D	D400	4.763	3.995	0.618	489224.377	99555.363
S3 - OP		900x600	Type D	D400	4.210	3.430	0.630	489190.367	99541.206

(OP) Manhole with orifice plate fitted to outlet - see General Arrangement for size

Syphonic drainage outfall to reservoir (by others)

Roof drainage

Ex MH1
CL: 3.637
IL: 2.820

Relaid 225Ø pipe connection to existing surface water sewer

225Ø 1/171
13.579m

Ex MH3
CL: 3.368
IL: 2.70

225Ø 1/476
23.781m

225Ø 1/288
20.124m

Ex MH2
CL: 3.409
IL: 2.770

Faserfix KS200 drainage channel

SB

DT

Headwall 1
CL: 3.61
IL: 2.90

Bed level = 2.90m AOD

Voided Subbase West
200mm concrete slab over
30% voided subbase
Level base @ 2.97m AOD

Faserfix sump box discharge to central west area subbase

Faserfix KS200

2xDT

Fin drain

S4
CL: 3.663
IL: 2.985

Concrete bag work headwall wall outlet from realigned ditch

Headwall 2
CL: 3.65
IL: 2.960

Bed level = 2.96m AOD

Concrete bag work headwall wall discharging to existing ditch

Bed level = 2.923m AOD

Hydrobrake Outfall Manhole
CL: 3.635
IL: 2.970
Manhole with Hydrobrake flow control
CTL-SHE-0052-1000-0630-1000
passing 1.0 l/s @ 630mm head

Outline of existing reservoir

FOR CONTINUATION SEE DRAWING NUMBER 23995/201 FOR CONTINUATION

EXISTING DRAINAGE

- Existing sewer and manhole

PROPOSED PRIVATE DRAINAGE

- Surface water pipe and Type C manhole
- Surface water pipe and Type D inspection chamber
- Hydrobrake water flow restriction manhole
- Orifice plate flow restriction manhole
- Concrete bag work headwall wall discharging to pond
- SB — Faserfix KS200 concrete drainage with standard sump box
- DT — Distribution tank
- Fin drain
- Voided stone filled trench with 150Ø fully perforated pipe
- Voided Subbase East, 200mm concrete slab over 30% voided subbase, level base @ 4.419m AOD
- Voided Subbase Central East, 200mm concrete slab over 30% voided subbase, level base @ 3.995m AOD
- Voided Subbase Central, 200mm concrete slab over 30% voided subbase,Level base @ 3.43m AOD
- Voided Subbase Central West, 200mm concrete slab over 30% voided subbase,Level base @ 2.985m AOD
- Voided Subbase West, 200mm concrete slab over 30% voided subbase, Level base @ 2.97m AOD
- Surface water channel 500mm wide bed 1:3 side
- Indicative route off syphonic roof drainage (by others)

Note:
The four sections of voided subbase (East, Central East, Central and Central West to be sealed from each other with the hydraulic connections between them being solely via the proposed orifice plate flow restrictions

GENERAL NOTES:

1. All dimensions to be checked on site. All details and dimensions relating to sub-Contractors work must be checked and agreed between the sub-Contractor or supplier and the general Contractor.

2. This drawing is to be read in conjunction with all relevant Architect's and Engineer's drawings and specification.

3. The main Contractor is responsible for ensuring the stability of the structure whilst the works are in progress.

4. Any information given regarding existing underground services is given in good faith after consultation with the relevant authority. No liability is accepted by the Consultant and the main Contractor is responsible for obtaining and checking all information and taking due care and attention whilst undertaking the works.

DRAINAGE NOTES:

1. All adoptable pipes, bends and junctions shall be vitrified clay in accordance with the current version of BS EN 295-1, with flexible joints and kitemark certified.

2. All Adoptable sewers shall be in strict accordance with the SSG Appendix C - Design and Construction Guidance. Unless otherwise stated adoptable sewers shall be 150mm diameter and shall be laid in a class S bedding. Where the depth to soffit is less than 1.2m under a public highway or 0.9m elsewhere the pipe shall be laid with a class Z bedding.

3. All private building drainage shall be constructed in strict in accordance with the current version of BS EN 752:2017. Unless otherwise specified building drainage shall be 100mm diameter and shall be laid at a minimum gradient of 1 in 40 for foul drains and 1 in 80 for surface water drains. All building drains shall be laid in class B bedding unless otherwise specified.

4. Where a pipe is within 1m of a foundation the trench shall be filled with class GEN 3 concrete up to the lowest level of the foundation. Where the trench is further than 1m from the foundation, the trench shall be filled with class GEN 3 concrete to a level below the lowest level for the foundation equal to the distance from the foundation less 150mm. In both cases the pipe shall be bedded and surrounded in 150mm thick class GEN 3 concrete.

5. Where pipes, external to the structures, have a depth to soffit from ground level of less than 450mm they shall have a class GEN 3 concrete encasement (150mm thick). In all other cases the pipes shall be bedded and surrounded with 100mm thick granular material.

6. In any circumstances where pipes are bedded and surrounded in concrete flexible joints should be provided. Compressible boards (fibreboard or polystyrene) shall be provided at a maximum of 8m centres (coinciding with pipe joints). The boards shall be pre-cut to pipe diameter and to a height and width equal to the concrete cross section. A board thickness of 18mm for pipes up to 450mm nominal diameter and 36mm for pipes over 450mm nominal diameter.

7. All svps shall have rodding access plates fitted at their bases (ground floor level).

8. Impermeable membranes to be sealed around any incoming pipes

9. Where existing pipes are to be abandoned they shall be dug out together with any abandoned manholes.

10. Any discrepancy between the drawing and site should be reported immediately to the Engineer.

11. All manhole and chamber sizes are given as a minimum to meet the SSG Appendix C-Design and Construction Guidance

N

-2m 0 2m 4m 6m 8m

REV	DATE	INT	DESCRIPTION	CHK
A	07.11.25	AJD	Updated to suit current drainage design	SRM

Issue Status: FOR APPROVAL

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CLIENT: Barfoots Of Botley

PROJECT: Sefter Farm Extension

TITLE: Site Layout - Proposed Drainage - Sheet 2x

DRAWN	DATE	PROJECT NO.
A Davies	March 2025	23995
ENGINEER	CHECKED	DRG No. / REV.
S Doughty	SRD	202 / A

SCALE: 1:200 @ A1, 1:400 @ A3