Ref:	CL (m)	Depth (m)	Dia (mm)	MH Type	Connections	Link ID	IL (m)	Dia (mm)	Cover Type
S1	62.850	0.750	600	PP Inspection Chamber	0 0	S1.000	62.025	225	B125
S2	62.850	1.052	600	PP Inspection Chamber	1 0 1 0	S1.000 S1.001	61.723 61.723	225 225	B125
S3	62.550	1.050	1200	PCC Rings Catchpit	0 1 1 0	S1.001 S1.002	61.575 61.425	225 375	D400
S4	63.000	1.400	1200	PCC Rings Catchpit	0 0	S2.000	61.600	225	D400
S5	62.500	1.230	1200	PCC Rings Catchpit	1 0 2 2 1 0	S1.002 S2.000 S1.003	61.270 61.270 61.270	300 225 150	D400
S6	61.800	1.600	1200	PCC Rings Catchpit	1 0 1 0	S1.003 S1.004	60.200 60.200	150 225	D400
S7	59.800	1.800	1200	PCC Rings Catchpit	1 1 0 0	S1.004 S1.005	58.000 58.000	225 150 x 3	D400
S8	59.850	0.750	450	PP Inspection Chamber	0 0	S3.000	59.100	150	B125
S9	59.850	1.171	450	PP Inspection Chamber	1 1 0 2 2 0	S3.000 Rodding Eye S3.001	58.679 58.679 58.679	150 150 150	B125
S10	59.600	1.050	1200	PCC Rings Catchpit	0 0	S4.000	58.550	100	D400
S11	59.600	1.900	1200	PCC Rings Catchpit	1 1 3 2 2 3 0 0	S1.005 S3.001 S4.000 S1.006	57.700 57.700 58.484 57.700	150 x 3 150 100 300	D400
S12	59.550	2.018	1200	PCC Rings Catchpit	1 1 0 0	S1.006 S1.007	57.532 57.532	300 300	D400
S13	59.850	0.750	450	PP Inspection Chamber	0 0	S5.000	59.100	150	B125
S14	59.850	1.420	450	PP Inspection Chamber	1 1 0 0	S5.000 S5.001	58.430 58.430	150 150	B125
S15	59.500	2.099	1200	PCC Rings Catchpit	2 1 1 0 2 0	S1.007 S5.001 S1.008	57.401 57.951 57.401	300 150 300	D400
S16	59.000	1.724	1200	PCC Rings Catchpit	1 0 1 0	S1.008 S1.009	57.276 56.500	300 225 x 3	B125
S17	58.500	1.300	1200	PCC Rings Catchpit	1 1	S1.009	56.500	225 x 3	B125
S18	59.500	1.300	1200	PCC Rings Catchpit	0 0	S6.000	58.200	150	D400
S19	57.700	1.300	1200	PCC Rings Catchpit	1 1 0 0	S6.000 S6.001	56.400 56.400	150 150	D400
S20	57.000	1.350	1200	PCC Rings Catchpit	1 0 1 0	S6.001 S6.002	55.650 55.575	150 225	D400
S21	56.250	0.825	1200	PCC Rings Catchpit	1 0 1 0	S6.002 S6.003	55.425 55.425	225 225	D400
S22	56.500	1.200	1200	PCC Rings Catchpit	1 1	S6.003	55.300	225 x 3	D400
S23	57.400	2.100	1200	PCC Rings Catchpit	1 1	S6.003	55.300	225 x 3	D400

Manholes denoted as 'catchpits' are to be a minimum 500mm deep.
Infiltration rates used are 2.5x10^-5m/s < 1.2m depth and 7x10^-6m/s > 1.2m depth in line with current available infiltration testing results.
Provision for existing building roof drainage to drain into new surface water drainage system at S4. Survey of existing rainwater drainage of Princess Alexandra House required.

Ref:	CL (m)	Depth (m)	Dia (mm)	MH Type	Connections	Link ID	IL (m)	Dia (mm)	Cover Type
F1	62.850	1.300	450	PP Inspection Chamber	0 0	F1.000	61.550	100	B125
F2	62.850	1.713	450	PP Inspection Chamber	0 1 1 0	F1.000 F1.001	61.187 61.137	100 150	B125
F3	63.000	2.197	450	PP Inspection Chamber	0 1 0 1 0	F1.001 F1.002	60.803 60.803	150 150	B125
F4	62.000	1.644	1200	PCC Rings Type B	1 0 1 0	F1.002 F1.003	60.356 60.356	150 150	D400
F5	59.850	1.350	450	PP Inspection Chamber	1 1 0 0	F1.003 F1.004	58.500 58.500	150 150	B125
F6	59.550	1.300	450	PP Inspection Chamber	0 0	F2.000	58.250	100	B125
F7	59.550	1.300	450	PP Inspection Chamber	0 0	F3.000	58.250	100	B125
F8	59.550	1.786	450	PP Inspection Chamber	0 1 1 2 2 0	F2.000 F3.000 F2.001	57.814 57.814 57.764	100 100 150	B125
F9	59.850	2.306	450	PP Inspection Chamber	0 1 1 0	F2.001 F2.002	57.544 57.544	150 150	B125
F10	58.400	1.350	450	PP Inspection Chamber	0 1 1 2 2 0	F1.004 F2.002 F1.005	57.050 57.208 57.050	150 150 150	B125
F11	59.000	1.300	1200	PCC Rings Type B	0 0	F4.000	57.700	100	D400
F12	57.000	1.300	450	PP Inspection Chamber	1 1 0 0	F4.000 F4.001	55.700 55.700	100 100	B125
F13	56.850	1.350	450	PP Inspection Chamber	0 2 1 2 1 0	F1.005 F4.001 F1.006	55.500 55.500 55.500	150 100 150	B125
F14	55.800	0.700	1200	PCC Rings Type B	1 1	F1.006	55.100	150	B125

F14 to be new manhole on existing foul water outfall connection. Invert level assumed based on minimum cover.
Unscheduled chambers are to be Type 4 non-access chambers to facilitate drop from outgoing svp to main foul line.
Live connections from south side of Princess Alexandra House to be reconnected into new foul drainage system as required.

Notes:

1. This drawing is to be read in conjunction with all relevant architects, engineers and specialist sub-contractors drawings and the specification.

2. All setting out to be in accordance with the schedules. any discrepancies between the engineers and the architects drawings to be referred to the architect before proceeding. Dimensions must not be scaled.

3. All private drainage is to be in accordance with BS EN 752-1-2-3-4, BS EN 1295-1, BS EN 1610 and all relevant sections of approved document H of the building regulations (2015 Edition).

4. Where drainage pipework is to be flexibly jointed extra strength vitrified clay it should be to BS EN 295-1, Hepworth 'Supersleve' or equivalent.

5. Where drainage pipework is plastic i.e. PVC-U it shall be to BS EN 1401-1 Osma or equivalent. Private pipework to be type SN4 and all adoptable pipework to be type SN8.

6. Where drainage pipework is cast iron it shall be to BS EN 877 and for ductile iron it shall be to BS EN 598.

7. All concrete pipework, shall be to BS EN 1916 and BS 5911-1. Manholes and fittings shall be to BS 5911 parts 3 and 4 and BS EN 1917.

8. All materials for adoptable drainage are to be Kitemarked as appropriate.

9. All adoptable manhole covers and frames are to be 150mm deep minimum and the covers badged as appropriate i.e. 'FW' or 'SW'.

10. Where drains pass through foundations or connect to manholes, flexible pipe joints are to be provided within 150mm of the face of the structure and within a further 600mm to form a rocker pipe.

11. Where pipes pass through screen walls, footings or retaining walls, lintels are to be provided.

12. Where pipelines pass within 1.0m of buildings or walls the foundations are to be taken down below the bottom of the trench. Where pipelines are more than 1.0m away from foundations the trench shall be backfilled with concrete up to a point that meets a 45° angle line taken from the bottom corner of the nearest foundation.

13. Where depth to invert does not exceed 600mm and the pipe size does not exceed 100mm diameter, 300mm dia. polypropylene access chambers may be used. Elsewhere, proprietary polypropylene or precast concrete manholes are to be used.

14. Where connections are to be made to existing manholes / sewers, invert levels, pipe sizes and orientation should be checked prior to the commencement of the works and any variance reported to the engineer immediately. Where connections are to be made on or off site the contractor is to check the line and level of any services / mains, to ensure that no clashes exist prior to works commencing.

15. Where pipelines cross, each is to be surrounded with grade ST4 mass concrete for a distance not less than 1.0m centred on the crossing point. Length of surround to be extended as necessary to within 150mm of the next nearest flexible joints.

16. For private drainage, concrete protection is to be provided where the effective cover to the crown of the pipe(s) is less than 1.2m in trafficked areas and 0.6m in soft landscaped or pedestrianised areas.

17. The contractor is to ensure that protective measures are taken to ensure that drainage pipework and fittings are not damaged by site traffic prior to oversite filling operations being completed around buildings.

18. The top run of each private foul drainage network is to be laid to falls no slacker than 1:40, the head of each run is to be vented to atmosphere in accordance with approved document H.

19. All surface water drainage to be min 100mm dia, laid at a gradient no slacker than 1/80. And all foul water drainage to be min 100mm dia. unless stated otherwise.

20. The contractor is to ensure that all pipework connections are arranged to direct flows down or into the main channel in the direction of the main flow. Where necessary 3/4 bends are to be used on oblique connections inside the manhole benching where sufficient room exists or the pipelines on oblique connections are arranged outside the chamber to be able to divert flows down the main channel. Connections brought in perpendicular to the main channel are not acceptable. Where possible the main channel flow shall be from any connections with WC's to ensure a flush through the main channel is achieved.

21. The contractor is to ensure that when preformed polypropylene manhole bases are used that they are orientated such that the main flow is through the main channel of the base. this should be achieved by incorporating long radius bends outside of the manhole.

22. The contractors attention is drawn to the need to ensure that any trenches excavated through previously compacted filled areas, in particular under the building footprint and immediately around the outside, are re-compacted to ensure localised differential settlement does not occur.

23. Where new connections are to be made into existing manholes or sewers, all invert levels, pipe orientation and sizes should be checked on-site prior to the commencement of the works, with any variance reported to the engineer once identified. Where new connections are to be made either on or off-site, the contractor is to check the line and level of any existing services / mains, to ensure that no clashes exist prior to the works commencing.

24. Any and all new connections into a public sewer are to be inspected by the local water authority and carried out fully in accordance with their requirements. The contractor is to allow for obtaining the appropriate 'Section Agreements' as well as paying all necessary fees.

25. The contractor is to allow for obtaining the appropriate road opening licence's from the local highway authority and paying all necessary fees. All reinstatement works within the public highway are to be carried out in accordance with the requirements of the local highway authority.

26. Permeable paving surface finish 'to the architects spec'. Any alteration to the extents of the permeable paving may have an adverse affect upon the Surface water drainage design and must therefore be discussed with the engineer.

27. Modular crate soakaway system(s) to be 'Wavin Aquacell' or 'Polypipe Polystorm'. Any other system offered will need to be provided with a separate warranty for design and installation.

28. Contractor to allow for threshold channel drainage to building access points where required.

Rev.	Date	Description
P3	12.09.24	Updated following request to site CV values
P2	20.08.24	Updated for Section 73 application
P1	04.08.22	First Issue for Planning

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Client
Care South

Project Title
Sussexdown House

Drawing Title
Foul and Surface Water Drainage Layout
Sheet 2 of 2

Drawing Status
Planning

Originator No.	Rev by	Chk by	Scale
114522	DB	MR	1:NTS @A1

PROJECT | ORIGINATOR | ZONE | LEVEL | TYPE | ROLE | NO.
114522-CAL-XX-XX-DR-D-0101

Revision
P3