DO NOT SCALE

SURFACE WATER SEWER SCHEDULE

CHAMBER No.	CHAMBER TYPE	CHAMBER SIZE (mm)	COVER GRADE EN 124	COVER SIZE (mm)	COVER LEVEL (m) AOD	INVERT LEVEL INCOMING (m) AOD	INVERT LEVEL OUTGOING (m) AOD	DEPTH TO INVERT (m)
S1	B	1200 Ø	B125	600x600	4.00	2.57	2.44	1.56
S5	B	1200 Ø	B125	600x600	3.95	2.10	2.10	1.85
S2	UIC	475 Ø	A15	525x525	3.35	2.57	2.52	0.83
JUNCTION					3.98	2.47	2.35	1.63
S3	UIC	475 Ø	A15	525x525	3.35	2.53	2.48	0.87
JUNCTION					3.93	2.29	2.17	1.76
S4	RA	475 Ø	B125	600x600	4.02	2.50	2.50	1.52
S5	B	1200 Ø	B125	600x600	3.95	2.23	2.10	1.85
S8	R600	600 Ø	A15	600x600	3.34	2.00	1.92	1.42
S6	UIC	475 Ø	A15	525x525	3.41	2.92	2.92	0.49
S7	R600	600 Ø	A15	600x600	3.34	2.83	2.70	0.64
S8	R600	600 Ø	A15	600x600	3.34	2.00	1.92	1.42
BYPASS SEPARATOR			D400	600x600	3.98	1.88	1.83	2.15
S9	CP	1200 Ø	D400	600x600	3.74	1.81	1.81	1.93
AQUACELL ATTENUATION TANK						1.80	1.70	N/A
S10	CP	1200 Ø	D400	600x600	3.42	1.68	1.68	1.74
S11	CP	1200 Ø	D400	600x600	2.15	1.17	1.09	1.06

PIPE DIAMETER (mm)	LENGTH (m)	GRADIENT 1 in	BEDDING CLASS	PIPE MATERIAL
225	20.8	61	S	HDPE
100	3.9	79	S	PVC-U
100	3.9	21	S	PVC-U
100	4.4	16	S	PVC-U
225	17.0	170	S	HDPE
100	4.5	50	Z	PVC-U
225	25.4	36	Z / S	HDPE
300	9.4	236	S	HDPE
300	1.7	84	S	HDPE
2 x 225	1.5	150	S	HDPE
2 x 225	0.9	45	S	HDPE
150	28.8	56	S	PVC-U

FOUL WATER SEWER SCHEDULE

CHAMBER No.	CHAMBER TYPE	CHAMBER SIZE (mm)	COVER GRADE EN 124	COVER SIZE (mm)	COVER LEVEL (m) AOD	INVERT LEVEL INCOMING (m) AOD	INVERT LEVEL OUTGOING (m) AOD	DEPTH TO INVERT (m)
F1	UIC	475 Ø	A15	525x525	3.63	2.96	2.91	0.72
F3	UIC	475 Ø	A15	525x525	3.34	2.68	2.60	0.74
F2	UIC	475 Ø	A15	525x525	3.43	2.90	2.85	0.58
F3	UIC	475 Ø	A15	525x525	3.34	2.68	2.60	0.74
F4	B	1200 Ø	B125	600x600	4.13	2.50	2.50	1.63
EXISTING MANHOLE FW02					4.21	2.31	2.31	1.90

PIPE DIAMETER (mm)	LENGTH (m)	GRADIENT 1 in	BEDDING CLASS	PIPE MATERIAL
150	18.1	79	Z	PVC-U
150	12.0	71	Z	PVC-U
150	14.8	148	Z / S	PVC-U
150	26.7	141	S	PVC-U

LEVELS LEGEND

- [FFL 3.64] — Proposed finished floor level
- 3.32 + — Proposed level
- ×4.61 — Existing level
- ← 1 in 24.5 — Proposed gradient
- 1/3 — Proposed bank and gradient
- R0.6m — Denotes extent of retaining wall with max. retaining height shown.

DRAINAGE LEGEND

- RG — Trapped road gully
- G — Trapped yard gully
- FG — Internal gully to Architects specification
- ACO PARKDRAIN (PD100C 10.1) CG — Aco Channel drain and trapped outfall unit
- RW — Retaining wall land drain outlet
- 150mm 1/100 — Surface water drain
- 150mm 1/100 — Foul water drain
- SA — SW shallow inspection chamber
- SA — FW shallow inspection chamber
- S1 — Surface water inspection chamber
- F1 — Foul water inspection chamber
- Surface water catchpit manhole
- Surface water manhole
- Foul water manhole
- SW reduced access chamber
- FW reduced access chamber
- SW Range 600 non–entry inspection chamber by Wavin Osma or similar.

ENGINEERING NOTES

1. This drawing to be read in conjunction with all relevant Architects, Engineers and Subcontractors drawings and details.
2. This drawing is based on topographical survey by Clugston:

   Drawing Number 3556/10/001 Rev A
   Dated 20/09/14
3. All levels relate to levels given on survey drawing.
4. Refer to Architects drawings for details of all paving types & patterns, soft landscaping, fences, gates & bollards.
5. For lighting, service supplies & ducting requirements, refer to M&E drawings.
6. All works to be carried out in accordance with Sewers for Adoption 7th Edition, BS EN 752 "Drain and sewer systems outside buildings" and the current edition of The Building Regulations "Approved document H".
7. New drainage connections are to be made with appropriate lengths of rocker pipes & couplings.
8. All manhole chamber covers to be installed parallel to final kerbs, edgings, paving joints or building lines as appropriate.
9. This drawing details all below ground drainage up to finished floor level. For details of drainage above finished floor level, refer to Architects drawings.
10. All stack connections under buildings to be minimum 100mm diameter solid PVC–U to BS EN 1401–1/BS4660 & laid at a minimum gradient of 1 in 40 unless otherwise noted. If the stack is greater than 100mm then the diameter of the connection is to be increased to match it
11. All RWP connections to be minimum 100mm diameter solid PVC–U to BS EN 1401–1/BS4660 & laid at a minimum gradient of 1 in 80 unless otherwise noted. If the RWP is greater than 100mm then the diameter of the connection is to be increased to match it.
12. All private foul water pipework up to 150mm in diameter to be PVC–U to BS EN 1401–1/BS4660.
13. All private surface water pipework up to 150mm in diameter to be solid PVC–U to BS EN 1401–1/BS4660. All private surface water pipework 225mm and above to be structured wall plastic sewer pipe complying with clause 518 of the specification for highway works.
14. Plastic chambers shall comply with BS EN 1917 and BS 5911–3.
15. All adoptable foul water and surface water pipework up to 225mm in diameter to be Kitemark certified Vitrified Clay (VC) with flexible spigot and socket joints and shall comply with the requirements of BS EN 295. All adoptable foul water and surface water pipework 300mm and above to be concrete sewer pipe with flexible spigot and socket joints and shall comply with the requirements of BS EN 1916 and BS 5911: Part 1.
16. On completion of development all drainage shall be jet cleaned and CCTV surveyed.
17. Sewers marked to be removed are to be dug out with manholes demolished & void filled with suitable engineering fill material.
18. All road gully connections to be minimum 150mm diameter solid PVC–U pipework to BS EN 1401–1/BS4660 and laid at a minimum gradient of 1 in 150.
19. All existing services shown are based on topographical survey by Clugston. Location of all services in close proximity to works should be confirmed by means of trial pits under supervision of statutory undertaker & in accordance with HSE document "Avoiding Danger from Underground Services"

SURFACE WATER DRAINAGE NOTES:

1) IT IS PROPOSED TO CONNECT THE NEW SW DRAINAGE TO THE EXISTING SW HIGHWAY DRAIN RUNNING PARALLEL WITH SHRIPNEY ROAD.

2) A SECTION 50 HIGHWAY LICENCE WILL BE REQUIRED TO UNDERTAKE WORKS WITHIN THE HIGHWAY VERGE TO MAKE THE CONNECTION TO THE HIGHWAY DRAIN.

MK	REVISION	DATE
D	LAYOUT UPDATED TO LATEST ARCHITECTS DRAWING 3577/102C. OUTFALL MANHOLE RELOCATED TO VERGE. DRAINAGE AMENDED TO SUIT.	13.11.14
C	SURVEY UPDATED TO LATEST CLUGSTON DRAWING No. 3556/10/001 REV A. SW DRAINAGE AMENDED TO SUIT. ATTENUATION TANK AND BYPASS SEPARATOR UPDATED.	26.09.14
B	DRAWING UPDATED TO LATEST ARCHITECTS REVISION 3577/100B.	19.09.14
A	SW DRAINAGE ADDED TO DRAWING.	03.09.14

CONSTRUCTION

DRAWING TITLE

ENGINEERING LAYOUT

CONTRACT

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