

Node ID	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Node Type	MH Type	Connections	Link ID	IL (m)	Dia (mm)	Link Type
1	507343.578	104703.244	14.650	0.900	450		Manhole	Adoptable	 0	1.000	13.750	150	PH1
2	507316.981	104687.889	14.640	1.274	450		Manhole	Adoptable	 0	1.000	13.366	150	PH1
3	507305.952	104687.889	14.640	1.412	450		Manhole	Adoptable	 0	1.001	13.366	150	PH1
4	507305.952	104704.310	14.640	1.617	450		Manhole	Adoptable	 0	1.001	13.228	150	PH1
5	507300.673	104712.468	14.640	1.738	450		Manhole	Adoptable	 0	1.002	13.228	150	PH1
6	507283.420	104712.333	14.950	2.264	450		Manhole	Adoptable	 0	1.002	13.023	150	PH1
7	507280.896	104707.341	14.910	2.294	450		Manhole	Adoptable	 0	1.003	12.902	150	PH1
8	507280.896	104686.932	14.640	2.254	450		Manhole	Adoptable	 0	1.003	12.902	150	PH1
9	507280.896	104679.963	11.640	0.900	450		Manhole	Adoptable	 0	1.004	12.686	150	PH1
10	507353.466	104682.681	11.510	1.186	450		Manhole	Adoptable	 0	1.004	12.686	150	PH1
11	507319.391	104663.279	11.640	1.806	450		Manhole	Adoptable	 0	1.005	12.686	150	PH1
12	507273.076	104663.279	11.940	2.685	450		Manhole	Adoptable	 0	1.005	12.616	150	PH1
14	507267.460	104663.279	11.550	2.365	450		Manhole	Adoptable	 0	1.006	12.616	150	PH1
15	507265.012	104663.279	11.610	2.456	1200		Manhole	Adoptable	 0	1.006	12.386	150	PH1
16	507264.357	104647.848	10.780	1.799	1200		Manhole	Adoptable	 0	1.007	12.386	150	PH1
17	507265.122	104619.058	9.100	2.750	1200		Manhole	Adoptable	 0	1.007	10.740	150	PH1
-SW2501	507219.827	104596.557	7.420	1.420	1200		Manhole	Adoptable	 0	1.008	10.740	150	PH1

Link ID	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)	US Node ID	Dia (mm)	Width (mm)	Node Type	MH Type	DS Node ID	Dia (mm)	Width (mm)	Node Type	MH Type
1.013	51.029	145.8	150	PH1	9.100	6.350	2.600	7.420	6.000	1.270	17	1200		Manhole	Adoptable	-SW2501	1200		Manhole	Adoptable
1.012	28.800	11.0	150	PH1	10.760	8.961	1.649	9.100	6.350	2.600	16	1200		Manhole	Adoptable	17	1200		Manhole	Adoptable
1.011	15.445	80.0	150	PH1	11.610	9.154	2.306	10.760	8.961	1.649	15	1200		Manhole	Adoptable	16	1200		Manhole	Adoptable
1.010	2.448	79.0	150	PH1	11.550	9.185	2.215	11.610	9.154	2.306	14	450		Manhole	Adoptable	15	1200		Manhole	Adoptable
1.009	5.616	80.2	150	PH1	11.940	9.255	2.535	11.550	9.185	2.215	12	450		Manhole	Adoptable	14	450		Manhole	Adoptable
1.008	18.426	12.4	150	PH1	11.640	10.740	0.750	11.940	9.255	2.535	9	450		Manhole	Adoptable	12	450		Manhole	Adoptable
2.001	46.315	80.0	150	PH1	11.640	9.834	1.656	11.940	9.255	2.535	11	450		Manhole	Adoptable	12	450		Manhole	Adoptable
2.000	39.212	80.0	150	PH1	11.510	10.324	1.036	11.640	9.834	1.656	10	450		Manhole	Adoptable	11	450		Manhole	Adoptable
1.007	8.969	5.4	150	PH1	14.640	12.386	2.104	11.640	10.740	0.750	8	450		Manhole	Adoptable	9	450		Manhole	Adoptable
1.006	18.409	80.0	150	PH1	14.910	12.616	2.144	14.640	12.386	2.104	7	450		Manhole	Adoptable	8	450		Manhole	Adoptable
1.005	5.594	80.0	150	PH1	14.950	12.686	2.114	14.910	12.616	2.144	6	450		Manhole	Adoptable	7	450		Manhole	Adoptable
1.004	17.254	80.0	150	PH1	14.640	12.902	1.588	14.950	12.686	2.114	5	450		Manhole	Adoptable	6	450		Manhole	Adoptable
1.003	9.717	80.0	150	PH1	14.640	13.023	1.467	14.640	12.902	1.588	4	450		Manhole	Adoptable	5	450		Manhole	Adoptable
1.002	16.421	80.0	150	PH1	14.640	13.228	1.262	14.640	13.023	1.467	3	450		Manhole	Adoptable	4	450		Manhole	Adoptable
1.001	11.029	80.0	150	PH1	14.640	13.366	1.124	14.640	13.228	1.262	2	450		Manhole	Adoptable	3	450		Manhole	Adoptable
1.000	30.711	80.0	150	PH1	14.650	13.750	0.750	14.640	13.366	1.124	1	450		Manhole	Adoptable	2	450		Manhole	Adoptable

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DRAINAGE NOTES:

1. Do not scale.

2. Refer to all other Project Drawings and supporting notes.

3. All sewers to comply with the requirements of Design and Construction Guidance together with Southern Water's Addendum. All public sewers are to be the subject of a Section 104 agreement of the Water Industry Act 1991.

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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 manhole 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

8. All sewer pipes, up to, and including 225mm are to be vitrified clay to BS EN255. All sewer pipes 300mm diameter and above to concrete pipes to BS EN1916.

9. 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.

10. All bedding shall be Class 5 unless noted otherwise.

11. All trenches under existing and proposed public highways are to be backfilled with thoroughly compacted Type 1 granular sub-base material.

12. 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.

13. Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other approved safety devices.

14. The use of precast concrete products made with sulphate resisting cement is mandatory, unless a laboratory report proves such precautions are not necessary.

15. 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.

16. 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.

17. All laterals to be 150mm laid at 1:80 (surface) or 1:60 (foul) unless otherwise stated.

18. All private drains to be 100mm diameter unless otherwise stated.

19. 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 BS6301.

20. Where pipes pass through footings, retaining or screen walls, lintels to be provided over drains.

21. Where inverts are less than 0.6m deep inspection chambers (min dia. 150mm) 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 3.1 of Document H of the Building Regulations (<0.6m to invert min DN300, >0.6m to invert min DN475).

22. All gullies connected direct to drains to be roddable.

23. Rainwater downpipes to be easily removable for rodding or to be provided with rodding access at ground level.

24. 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.

25. Adequate precautions in accordance with Approved Document H and manufacturers's recommendations to be taken to protect drains (particularly plastic) at shallow depths.

26. Catchpits to be as IC's but with 300mm sump below outgoing pipe invert level except where detailed elsewhere.

27. 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.

28. Gullies within and adjacent to area of site works to be suction cleansed at commencement and completion of works.

29. 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.

30. Where connections are being made to pipelines rather direct to manholes all connections are to be made using oblique 45 junctions.

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7/21

First Issue

JS

SL

Rev

Date

Description

Drawn

Checked

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Client

Frontier

Project

Dappers Lane

Angmering

Title

Foul

Manhole and Pipe Schedules

Status

For Approval

Scale

NTS

Date

July '21

Drawn

JS

Checked

SL

Drawing No

A360 - 04

Revision

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ARUN DISTRICT COUNCIL A21051JDDC