

REFERENCE	Cover Level (m)	Invert Level (m)	Depth to Soffit (m)	Size (mm)	Type	Comments
ExMhRef1505	10.34	6.51 (TBC)	3.68	Existing		Existing manhole levell to be confirmed
F1	TBC	6.55	TBC	1200 diameter	2	
F2	TBC	6.90	TBC	450 diameter	3	
F3	TBC	7.20	TBC	1200 diameter	2	
F3A	TBC	7.26	TBC	1200 diameter	2	
F4	TBC	7.29	TBC	1200 diameter	2	
F5	TBC	7.75	TBC	1200 diameter	2	
F6	11.00	7.92	2.93	1200 diameter	2	
F7	11.20	8.10	2.95	1200 diameter	2	
F8	10.89	8.42	2.32	1200 diameter	2	
F9	10.80	8.51	2.14	1200 diameter	2	
F10	10.20	8.74	1.31	1200 diameter	2	

DOMESTIC SOAKAWAY DETAILS-Trench Soakaways

Soakaway Ref	Area Draining m^2	Width m	Length m	Soakaway Depth from Ground Level m	Infiltration Zone	10 yr FoS	10 yr Half Drain Time (min)	100 yr+40% FoS	100 yr+40% Half Drain Time (min)	Soakaway Base
SA1	67	1.0	5.0	3.20	3	10	707	10	703	NO
SA2/SA3	134	0.5	8.0	3.20	3	10	400	10	409	NO
SA4	67	1.0	5.0	3.20	3	10	707	10	703	NO
SA5-SA7	87	1.0	6.5	3.20	3	10	739	3	735	NO
SA8+ Ch 30-53	320	1.2	10.0	3.50	3	5	433	1	100	NO
SA9+Ch 53-63	210	1.2	7.0	3.50	3	5	433	1	160	NO
SA10+Ch 63-74	220	1.2	8.0	3.50	1	9	1402	1	160	NO
SA11	92	1.0	8.0	3.00	1	10	1178	10	1177	NO
SA12	92	1.0	8.0	3.00	1	10	1178	10	1177	NO
SA13	92	1.0	8.0	3.00	1	10	1178	10	1177	NO
SA14-SA17	340	1.0	52.0	2.80	2	2	1014	2	1290	YES
SA18-SA24	420	0.6	46.0	3.40	2	2	1191	2	1399	YES
SA18A	60	0.6	7.0	2.80	2	2	1130	2	1797	YES
SH1	480	1.0	26.0	3.20	2	10	1441	2	293	NO
SH2	85	1.0	24.0	3.10	1	10	1436	3	438	NO

ACCESS ROAD & DOMESTIC DRIVES
(Based on in-situ tests)

Driveways Plots	Depth of Open Graded sub-base m	Shallow Test Zone	100 yr+40% FoS	100 yr+40% Time (min)
Plots 1-5	303	2	3	1475
Access Ch 0-20	285	2	3	1454
Access Ch 20-30	270	2	3	1472

Infiltration Rates

Infiltration Zone	Soakage Rate (m/s)	Soakage Rate (m/hr)	Test Depth (m)
1	1.497 E-05	0.05364	2.80
2	1.887 E-06	0.006793	2.80
3	2.639 E-05	0.09500	3.34
Shallow Zone 1	3.689 E-07	0.0013280	1.00
Shallow Zone 2	5.0 E-06	0.01800	1.00

Infiltration rates have been confirmed by in-situ tests.

SURFACE WATER DRAINAGE:

Surface water drainage embraces the SuDS (Sustainable Drainage System) philosophy. On site tests at various locations and levels have been undertaken to establish suitability of utilising infiltration methods as the means of surface water disposal. These tests results have been utilised to produce a drainage strategy that will introduce soakaways to cater for the roof discharge from roofs, drives and carriageway areas and where possible infiltration through granular sub bse . Prior to discharging to soakaways surface water discharge will pass through a silt trap which will reduce the sediment deposit in the soakaway.

All surface water drainage has been designed in accordance with current Environment Agency requirements for the 1 in 100 year storm event plus 40% increase for climate change and the appropriate factor of safety (FoS) as agreed with Arun District Council.

FOUL WATER DRAINAGE:

The nearest public foul sewer is situated approximately 200 metres away in Parsons Close. Recent changes to Southern Water criteria regarding connecting to public sewers mean there will be no objection to the proposed discharge from the site connecting into this sewer. Levels have been calculated and indications are that a gravity discharge from the site to the outfall is possible.

Legend:

- Existing foul water sewer
- Existing surface water sewer
- Type 2 manhole
- Type 3 manhole
- Silt Trap Manhole
- Domestic foul water drainage
- Domestic surface water drain.
- SA1 — Domestic gravel filled soakaway designed in accordance with Environment Agency criteria. In-situ testing has been undertaken to confirm infiltration rates.
- Unadopted highway gully with Polypipe Permavoid Diffuser dropped in 2mm mesh to diffuse surface water into the sub grade
- Yard gully serving domestic drives
- Impermeable block paved driveway and parking area
- Permeable block paved driveway and parking area
- Access road sub base for infiltration
- FFL 11.20 — Proposed Finished Floor Level
- Carriageway crossfall
- Proposed easement for foul drainage
- Sub surface 'baffles' under carriageway surfacing.

Rev.	Date	Details	Initials
A	14.08.20	First Issue	KN

Drawing Status
PRELIMINARY FOR PLANNING

Project
MAYFLOWER WAY
ANGMERING

Client
Crayfern HOMES

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Drawing Title
Engineering Details
Drainage Strategy

Drawn	Checked	Scales	Paper Size	Date
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ARUN DISTRICT COUNCIL A1/30/20PL