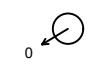
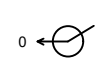
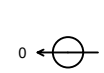
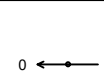
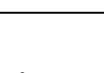
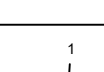
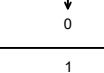
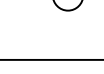
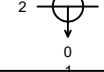
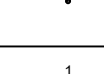
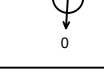


Node ID	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Node Type	MH Type	Connections	Link ID	IL (m)	Dia (mm)	Link Type
1	507356.284	104683.424	11.510	1.010	600		Manhole	Adoptable		0 3.000	10.500	150	PH1
2	507314.142	104657.839	11.160	1.200	1200		Manhole	Adoptable		1 0 2.001	9.960 9.960	150	PH1 PH1
2A	507304.142	104657.839	11.160	1.220	1200		Manhole	Adoptable		1 0 2.000	9.940 9.940	150	PH1 PH1
-TANK IN	507313.142	104657.839	11.160	1.210	??		Junction	Adoptable		1 0 4.000	9.950 9.950	150	PH1 DUMMY
-TANK OUT	507305.142	104657.839	11.160	1.210	??		Junction	Adoptable		1 0 2.003	9.950 9.950	150	DUMMY PH1
5	507279.300	104679.978	11.640	0.750	600		Manhole	Adoptable		1 0 1.002	10.940 10.890	100	PH1 PH1
6	507279.300	104657.839	11.940	1.940	600		Manhole	Adoptable		1 0 1.003	10.000 10.000	150	PH1 PH1
8	507295.430	104657.839	11.230	1.390	1200		Manhole	Adoptable		1 2 0 1.004	2.000 1.003 9.840 9.840	150 150	PH1 PH1 PH1
11	507295.430	104643.728	10.050	0.500	??		Junction	Adoptable		1 0 1.004	9.550	150	PH1
4	507279.896	104688.958	14.640	0.743	600		Manhole	Adoptable		1 0 1.001	13.897 13.897	100	PH1 PH1
3	507279.896	104707.571	14.910	0.700	600		Manhole	Adoptable		0 1.000	14.210	100	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
3.000	49.301	91.3	150	PH1	11.510	10.500	0.860	11.160	9.960	1.050	1	600		Manhole	Adoptable	2	1200		Manhole	Adoptable
2.001	1.000	100.0	150	PH1	11.160	9.960	1.050	11.160	9.950	1.060	2	1200		Manhole	Adoptable	-TANK IN	??		Junction	Adoptable
1.004	14.111	48.7	150	PH1	11.230	9.840	1.240	10.050	9.550	0.350	8	1200		Manhole	Adoptable	11	??		Junction	Adoptable
2.000	8.712	87.1	150	PH1	11.160	9.940	1.070	11.230	9.840	1.240	2A	1200		Manhole	Adoptable	8	1200		Manhole	Adoptable
1.003	16.130	100.8	150	PH1	11.940	10.000	1.790	11.230	9.840	1.240	6	600		Manhole	Adoptable	8	1200		Manhole	Adoptable
1.002	22.139	24.9	150	PH1	11.640	10.890	0.600	11.940	10.000	1.790	5	600		Manhole	Adoptable	6	600		Manhole	Adoptable
1.001	9.000	3.0	100	PH1	14.640	13.897	0.643	11.640	10.940	0.600	4	600		Manhole	Adoptable	5	600		Manhole	Adoptable
1.000	18.613	59.5	100	PH1	14.910	14.210	0.600	14.640	13.897	0.643	3	600		Manhole	Adoptable	4	600		Manhole	Adoptable
2.003	1.000	100.0	150	PH1	11.160	9.950	1.060	11.160	9.940	1.070	-TANK OUT	??		Junction	Adoptable	2A	1200		Manhole	Adoptable
4.000	1.000	0.0	150	DUMMY	11.160	9.950	1.060	11.160	9.950	1.060	-TANK IN	??		Junction	Adoptable	-TANK OUT	??		Junction	Adoptable

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DRAINAGE NOTES:

- Do not scale.
- Refer to all other Project Drawings and supporting notes.
- 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.
- All public sewers are to be the subject of a Section 104 agreement of the Water Industry Act 1991.
- Invert levels of existing manholes and sewers are to be checked on site before construction commences and results reported to engineers.
- 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.
- 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
- All sewer pipes, up to, and including 225mm are to be vitrified clay to BS EN295. All sewer pipes 300mm diameter and above to concrete pipes to BS EN1916.
- 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.
- All bedding shall be Class 5 unless noted otherwise.
- All trenches under existing and proposed public highways are to be backfilled with thoroughly compacted Type 1 granular sub-base material.
- 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.
- Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other approved safety devices.
- The use of precast concrete products made with sulphate resisting cement is mandatory, unless a laboratory report proves such precautions are not necessary.
- All gully connections to use a minimum diameter pipe of 150mm and to be surrounded by a minimum of 150mm of grade C3/C10 concrete over its full length (which should not exceed 15m) and its connection to the carrier system.
- 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.
- All laterals to be 150mm laid at 1:80 (surface) or 1:60 (foul) unless otherwise stated.
- All private drains to be 100mm diameter unless otherwise stated.
- 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 BS8301.
- Where pipes pass through footings, retaining or screen walls, lintels to be provided over drains.
- Where inverts are less than 0.6m deep inspection chambers (min dia. 190mm) 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 11 of Document H of the Building Regulations (<0.6m to invert min DN300, >0.6m to invert min DN475).
- All gullies connected direct to drains to be roddable.
- Rainwater downpipes to be easily removable for rodding or to be provided with rodding access at ground level.
- 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.
- Adequate precautions in accordance with Approved Document H and manufacturers's recommendations to be taken to protect drains (particularly plastic) at shallow depths.
- Catchpits to be as IC's but with 300mm sump below outgoing pipe invert level except where detailed elsewhere.
- 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.
- Gullies within and adjacent to area of site works to be suction cleansed at commencement and completion of works.
- 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.
- 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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ABLEY LETCHFORD

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Client

Frontier

Project

Dappers Lane

Angmering

Title

Surface Water

Manhole and Pipe Schedules

Status

For Approval

Scale	Date	Drawn	Checked
NTS	July '21	JS	SL

Drawing No	Revision
A360 - 03	A

ARUN DISTRICT COUNCIL A21021JDDC