

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
SJ7.1	526513.645	328950.328	3.350	0.900	450			PPIC		0	15.000	2.450	150 Circular
SJ7	526508.585	328951.663	3.200	1.865	??		Junction			1 2 0	1.011 15.000 1.012	1.335 1.785 1.335	600 150 600 Circular Circular Circular
SJ8.1	526513.223	328953.299	3.360	1.010	450			PPIC		0	16.000	2.350	150 Circular
SJ8	526508.854	328955.343	3.200	1.871	??		Junction			1 2 0	1.012 16.000 1.013	1.329 1.779 1.329	600 150 600 Circular Circular Circular
SJ9.1	526502.001	328957.337	3.550	1.550	450			PPIC		0	17.000	2.000	150 Circular
SJ9	526509.374	328962.437	3.300	1.983	??		Junction			1 2 0	1.013 17.000 1.014	1.317 1.767 1.317	600 150 600 Circular Circular Circular
MHS-06.2	526503.823	328971.648	3.475	1.275	450			PPIC		0	18.000	2.200	150 Circular
MHS-06.1	526514.853	328970.960	3.250	0.950	450			PPIC		0	19.000	2.300	150 Circular
MHS-06	526510.187	328973.544	3.290	1.993	1500		Manhole	Type E		1 2 3 0	1.014 19.000 18.000 1.015	1.298 1.747 1.747 1.297	600 150 150 600 Circular Circular Circular Circular
HW01	526518.196	328852.841	4.315	1.715	1200		Manhole	Type B		0	20.000	2.600	150 Circular
HW02	526515.499	328873.789	3.575	1.116	900	675	Manhole	LCC - Type D		1 0	20.000 20.001	2.459 2.459	150 150 Circular Circular
HW03	526514.801	328899.711	3.325	1.120	900	675	Manhole	LCC - Type D		1 0	20.001 20.002	2.286 2.205	150 225 Circular Circular
HW04	526514.974	328920.976	3.230	1.151	900	675	Manhole	LCC - Type D		1 0	20.002 20.003	2.079 2.079	225 225 Circular Circular
HW05	526511.531	328946.083	3.315	1.386	1200		Manhole	LCC - Type E		1 0	20.003 20.004	1.929 1.929	225 225 Circular Circular
HW06	526512.502	328966.657	3.275	1.467	1200		Manhole	LCC - Type E		1 0	20.004 20.005	1.808 1.808	225 225 Circular Circular
HW07	526519.676	329009.971	3.360	1.385	1200		Manhole	LCC - Type E		0	21.000	1.975	150 Circular
HW08	526512.579	328991.332	3.215	1.552	1200		Manhole	LCC - Type E		1 2 0	21.000 20.005 20.006	1.738 1.663 1.663	150 225 225 Circular Circular Circular
MHS-07.3.1	526491.317	328991.980	3.550	1.300	1200		Manhole	LCC - Type E		0	22.000	2.250	150 Circular
MHS-07.3.2	526504.002	328998.290	3.615	1.515	450			PPIC		0	23.000	2.100	150 Circular
MHS-07.3	526504.719	328992.427	3.390	1.690	1500		Manhole	Type E		1 2 0	23.000 22.000 22.001	1.775 1.775 1.700	150 150 225 Circular Circular Circular
MHS-07.2	526502.905	328986.700	3.515	1.515	450			PPIC		0	24.000	2.000	150 Circular
MHS-07	526509.945	328992.597	3.290	2.026	1800		Manhole	Type E		1 2 3 4 0	1.015 20.006 24.000 22.001 1.016	1.265 1.639 1.714 1.639 1.264	600 225 150 225 600 Circular Circular Circular Circular Circular
MHS-08.1	526520.257	329002.627	3.330	1.555	1200		Manhole	Type E		0	25.000	1.775	150 Circular
MHS-08	526516.557	329009.968	3.410	2.177	1800		Manhole	Hydrobrake		1 2 0	1.016 25.000 1.017	1.233 1.683 1.233	600 150 150 Circular Circular Circular
Headwall	526521.132	329022.454	3.200	2.100	1650	1350	Insitu Headwall			1	1.017	1.100	150 Circular

All junction nodes are approximate only and are to be confirmed using the final main pipe invert/soffit and location.

All surface water demarcation chambers are to be PPIC catchpits.

All laterals underneath the adoptable highway are to be adopted.

All PPIC's deeper than 1.2m are to be fitted with a non-access cover.

All manhole covers located within adoptable highway areas are to be 150mm deep and D400 rated.

Demarcation chambers, to have the following cover grades; Adoptable areas - D400, private roads - D400, domestic drives - C250, pedestrian areas - B125. If areas are not listed - ask!

Cover levels are approximate only and are to suit finished levels.

Anglain Water adoptable manhole covers are to be denoted 'FW' and 'SW' to denote 'Foul Water' and 'Surface Water' respectively.

Do not scale directly from this drawing. All discrepancies are to be brought to the attention of the below office.

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The General Contractor is to check all dimensions on site and report discrepancies to the designer.

The details and information shown hereon relating to existing underground drains, main services, cables, etc. and existing structural details, are as obtained by normal survey observation method. Although all reasonable effort has been made, no guarantee can be made or given for the completeness or accuracy of this information.

Notes:

- All drawings to be read in conjunction with Structural Engineers Drawings.
- All plans are drawn in meters unless noted otherwise.
- Drainage design in accordance with Sewers for Adoption 6th edition.
- Road design in accordance with 'Lincolnshire County Council - Development Road and Sustainable Drainage Specification and Construction', and any specific requirements of the approving Highway officer.
- Estate road materials to be in accordance with Lincolnshire County Council specifications.
- All manholes located in the adoptable highways to have a minimum cover grades of D400, be 150mm thick and to me marked FW and SW to denote foul water and surface water, respectively.
- It is proposed that all laterals from plots are to be adopted.
- Final connection point levels and locations need to be confirmed prior to commencement of construction.
- All proprietary items to be installed in strict accordance with the manufacturers instructions and recommendations.
- All works to be carried out in accordance with the current British Standards, Codes for practice and Building Regulations.
- Manholes and coordinates are given to the centre of manholes. Groundworker to ensure offsets allow minimum benching requirements and offsets from kerbs.
- Generally the first inspection chamber located in the private areas is a demarcation chamber for the AW adoptable lateral. Cover grades to be:
  - D400 - adoptable areas and the main access way,
  - C250 - shared parking areas
  - B125 - private domestic car parking (single dwelling)
  - A15 - soft landscaped and non-vehicle areas
- All drawings need to be read in conjunction with each other, any discrepancies must be reported back to the engineer immediately.
- Any sewer pipes with less than 1.2m of cover to the top of pipe in the adopted carriageway, less than 1.2m under adopted vehicular crossovers are to receive a concrete cover slab. Where there is very little cover, the pipe is to be ductile iron - refer to longections for material type. Concrete cover to be confirmed on site.
- Outside of manhole construction and outside of pipelines to be at least 0.5m and 1.0m respectively, from the kerbface. Sewers might need to be offset in the manholes to achieve - to be confirmed on site.
- All details are to be read in conjunction with Anglian Water's standard adoptable drainage details - available from Anglian Water upon request.
- Contractor to ensure that all items are sufficiently protected during construction.
- Connections into the box culvert are to be set at 200mm above the invert of the box culvert. This is to ensure that the incoming pipe junction is below/above the infernal chamfer of the box culvert. See manhole schedule.
- Cover levels are approximate only, and should be adjusted to suit the final road levels.

E	17.12.2019	S11	Drawing updated to reflect Anglian Water comments.
D	18.11.2019	S11	Drawing generally updated
C	28.10.2019	S11	Drawing generally updated
B	18.09.2019	S11	Drawing generally updated
A	19.08.2019	S11	Initial Issue
REVISION	DATE	DRAWN	DESCRIPTION



CLIENT Seagate Homes Ltd

PROJECT Residential development off Station Road, Surfleet

DRAWING Anglian Water Section 104, Manhole Schedule, Surface Water, 2 of 2

DRAWN S11	PROJECT DESIGNER JMG	PROJECT DIRECTOR KB
DATE Aug' 19	SCALE NTS	PAPER SIZE A1

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