

DO NOT SCALE

SURFACE WATER MANHOLE SCHEDULE (NETWORK 2)
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Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types		Additional Manhole Requirements			
			Code	Invert	Diams		Manhole	Cover	Ladder or Stepped Access	Safety Chain Required?	Handrails Required?	
S216	25.711		1	7.001	23.603	450	1500	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	No	No
E. 341110.897 N. 398469.553	1.658	0	7.002	23.603	450							
S217	25.256		1	7.002	23.531	450	1800	Type C (Figure B15)	D400 (1220 x 685)	Stepped Access	No	No
E. 341105.936 N. 398441.010	1.275	0	7.003	23.531	450							
S218	25.325		1 2	1.005 7.003	23.417 23.492	525 450	1800	Type C (Figure B15)	D400 (1220 x 685)	Stepped Access	Yes	Yes
E. 341110.690 N. 398426.361	1.383	0	1.006	23.417	525							
S219 (Headwall)			1	1.006	23.374	525	N/A	N/A	N/A	N/A	N/A	N/A
S220 (Headwall)	25.000						N/A	N/A	N/A	N/A	N/A	N/A
E. 341095.815 N. 398384.710	1.250	0	8.000	23.225	525							
S221	24.957						1800	Type C (Figure B15)	D400 (1220 x 685)	Stepped Access	Yes	Yes
E. 341110.998 N. 398398.491	1.365	0	9.000	23.067	525							
S222 (Flow Control)	24.825		1 2	9.000 8.000	23.025 23.025	525 525	2100	Type B (Figure B10)	D400 (1220 x 685)	Stepped Access	No	No
E. 341110.940 N. 398381.877	1.500	0	8.001	23.025	300							
S223	24.436		1	8.001	22.888	300	1500	Type C (Figure B15)	D400 (1220 x 685)	Stepped Access	No	No
E. 341110.872 N. 398351.655	1.248	0	8.002	22.888	300							
S224	24.775		1	8.002	21.932	300	1500	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
E. 341110.814 N. 398306.777	2.543	0	8.003	21.632	600							
S225	24.102						1800	Type C (Figure B15)	D400 (1220 x 685)	Stepped Access	No	No
E. 341117.234 N. 398237.866	1.275	0	10.000	22.602	225							
S226	24.111		1 2	10.000 8.003	22.531 21.485	225 600	1800	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
E. 341110.910 N. 398247.980	2.026	0	8.004	21.485	600							
S227	23.842		1	8.004	21.451	600	1800	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
E. 341098.139 N. 398243.520	1.791	0	8.005	21.451	600							
S228	23.710		1	8.005	21.423	600	1800	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
E. 341087.117 N. 398244.175	1.687	0	8.006	21.423	600							
S229	23.294		1 2	8.006 11.000	21.273 21.800	600 225	1800	Type C (Figure B15)	D400 (1220 x 685)	Stepped Access	Yes	Yes
E. 341030.346 N. 398263.665	1.421	0	8.007	21.273	600							
S230	23.165		1 2	8.007 12.000	21.093 21.650	600 225	1800	Type C (Figure B15)	D400 (1220 x 685)	Stepped Access	Yes	Yes
E. 340962.275 N. 398286.970	1.472	0	8.008	21.093	600							

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			Code	Invert	Diams		Manhole	Cover	Ladder or Stepped Access	Safety Chain Required?	Handrails Required?
S231	25.265										
E. 341011.541 N. 398478.569	1.200		0	13.000	23.840	225	1500	Type C (Figure B15)	D400 (1220 x 685)	Stepped Access	No
S232	26.005										
E. 340961.860 N. 398497.840	1.200		0	14.000	24.580	225	1500	Type C (Figure B15)	D400 (1220 x 685)	Stepped Access	No
S233	25.583		1	13.000	21.895	225					
E. 340981.440 N. 398490.288	3.463		2	14.000	22.795	225	1800	Type A2 (Figure B6)	D400 (600 x 600)	Ladder Access	Yes
S234	24.342		1	13.001	21.340	600					
E. 340956.567 N. 398422.643	2.402		0	13.001	21.340	600	1800	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes
S235	25.044										
E. 341071.311 N. 398456.339	1.200		0	15.000	23.544	300	1500	Type C (Figure B15)	D400 (1220 x 685)	Stepped Access	No
S236	25.500		1	15.000	23.345	300					
E. 341040.122 N. 398468.465	1.855		0	15.001	23.345	300	1500	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	No
S237	24.426		1	15.001	22.851	300					
E. 341022.287 N. 398422.594	1.275		0	15.002	22.851	300	1500	Type C (Figure B15)	D400 (1220 x 685)	Stepped Access	No
S238	24.541										
E. 341068.921 N. 398373.973	1.200		0	16.000	23.041	300	1500	Type C (Figure B15)	D400 (1220 x 685)	Stepped Access	No
S239	23.787		1	16.000	21.754	300					
E. 341011.100 N. 398393.822	1.733		2	15.002	21.754	300	2100	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes
S240	24.081		1	15.003	21.327	600					
E. 340962.994 N. 398410.606	2.154		0	15.004	21.327	600	1800	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes
S241	24.156		1	15.004	21.310	600					
E. 340956.280 N. 398410.738	2.246		2	13.002	21.310	600	1800	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes
S242	23.773		1	13.003	21.263	600					
E. 340955.912 N. 398392.026	1.910		0	13.004	21.263	600	1800	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes
S243	23.370		1	13.004	21.197	600					
E. 340947.638 N. 398366.993	1.573		0	13.005	21.197	600	1800	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes
S244	24.312										
E. 341073.154 N. 398314.107	2.193		0	17.000	21.519	600	1800	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes
S245	24.213		1	17.000	21.358	600					
E. 341012.160 N. 398334.828	2.255		0	17.001	21.358	600	1800	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes

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Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types		Additional Manhole Requirements			
			Code	Invert	Diams		Manhole	Cover	Ladder or Stepped Access	Safety Chain Required?	Handrails Required?	
S246	23.908		1	17.001	21.298	600	1800	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
E. 340988.282 N. 398337.897	2.010		0	17.002	21.298	600						
S247	23.367		1	17.002	21.147	600	1800	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
E. 340930.701 N. 398356.741	1.620		2	13.005	21.148	600						
S248	23.268		1	13.006	21.013	600	1800	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
E. 340916.552 N. 398305.027	1.655		0	13.007	21.013	600						
S249	23.110		1	8.008	20.990	600	2100	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
E. 340924.113 N. 398298.865	1.520		2	18.000	21.550	225						
S251 (Headwall)			3	13.007	20.990	600	N/A	N/A	N/A	N/A	N/A	N/A
E. 340919.275 N. 398283.282			0	8.009	20.840	750						
S253 (Headwall)			1	8.009	20.799	750	N/A	N/A	N/A	N/A	N/A	N/A
E. 340883.968 N. 398172.442			0	19.000	20.050	750						

Notes

- All works shall be in accordance with Sewers for Design and Construction Guidance (DCG) Standards and United Utilities Standard Details and Guidelines.
- Step Rungs shall be installed in accordance to BS EN 13101.
- Manholes shall be to United Utilities Standard Detail STND/19/001-012. Ladders, Safety chains and Hand railing shall be to Standard Detail STND/19/010. Back-drops shall be to Standard Detail STND/19/007.
- 150mm min concrete surround required for all adopted Manholes.
- Rocker pipes shall be provided in accordance with United Utilities Standard Detail STND/19/010.
- Pipe materials as table below or similar approved by United Utilities.
- All lateral connections will be made at soffit level to the main channel.

Pipe Materials Table

Pipe Materials Table	Pipe Materials Table
150	PVC-U
225	PVC-U
300	PVC-U
375	CONCRETE
450	CONCRETE
600	CONCRETE
750	CONCRETE
900	CONCRETE
1200	CONCRETE
1500	CONCRETE

Bedding and Surround Table

Depth to Soffit	Bedding and Surround Type
>1.2m	Class S
<1.2m	Class Z

Coopers Drawing List:

- 7778 / 01 Proposed S104 Drainage Layout
- 7778 / 02 Proposed Highway Setting Out
- 7778 / 03 Proposed Highway Layout
- 7778 / 04 Proposed Highway and Drainage Longsections
- 7778 / 05 Highway Construction Details
- 7778 / 06 Proposed Surface Finishes
- 7778 / 07 S38 Agreement Plan
- 7778 / 08 External Works Layout
- 7778 / 09 Private Drainage Layout
- 7778 / 10 Private Drainage Construction Details
- 7778 / 11 Manhole Schedules
- 7778 / 12 Flow Control Manhole Details
- 7778 / 13 Surface Water Catchment Areas
- 7778 / 14 Surface Water Attenuation Details
- 7778 / 15 Proposed Cut and Fill Earthworks
- 7778 / 16 Plot Setting Out
- 7778 / 17 Manhole Connection Plan

TENDER



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Project

CHERRYFIELD DRIVE,
KIRKBY.

Title

Surface Water Manhole Schedules
Sheet 3 of 9

DRAWING NUMBER