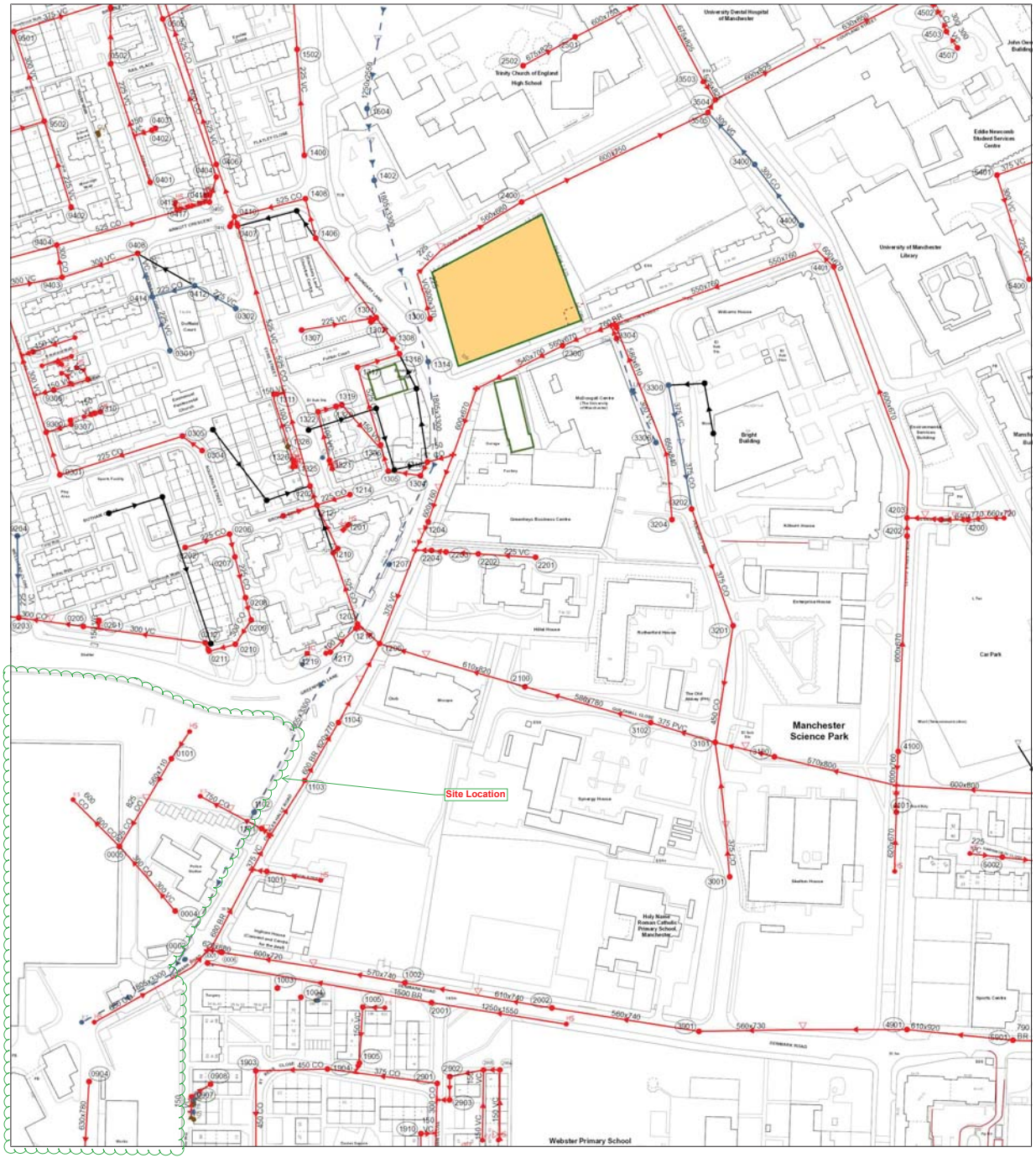

The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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Refno	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad
9300	33.89	CO	31.06	300			VC	64.15765	1 in 221
9300	33.89	CO	31.06	300			VC	84.15765	1 in 221
2300	34.52	CO	31.36	540			BR	26.83282	
1904	33.75	CO	31.08	450			CO	40.0125	1 in 667
1904	33.75	CO	31.08	450			CO	40.0125	1 in 667
1311		CO		150			VC	8.512077	
2400	34.36	SW	31.86	300			VC	62.14495	1 in 2.16306823
2400		SW	0	225			VC	24.5753	
4101	34.85	CO	32.79	570			BR	6	
2904		CO		150			VC	9.103977	
2904		CO		150			VC	9.103977	
1318		CO	0	525			CO	9.329441	
1307	34.55	CO	32.49	225			VC	38.48635	
4507		CO		300			VC	10.81685	1 in
9203	33.58	CO	30.64	300			VC	39.48372	1 in 146
9203	33.58	CO	30.64	300			CO	39.48372	1 in 146
1310	34.35	CO	0	525			CO	8.401892	
0302	34.71	SW	32.55	225			VC	26.08914	
0201		CO		150			VC	4.584419	
0201		CO		150			VC	4.584419	
2909		CO		150			VC	19.19599	
2905		CO		150			VC	19.19599	
0002	33.39	SW	29.49	1805			BR	12.52996	
0002	33.39	SW	29.49	1805			BR	12.52996	
0004	33.33	CO	31.09	300			VC	23.43075	1 in 167
0004	33.33	CO	31.09	300			VC	23.43075	1 in 167
9400		CO	0	525			CO	68.41052	
1905		CO		150			VC	5.883502	
1905		CO		150			VC	5.883502	
3305	34.74	CO	31.59	300			VC	7.615773	
0403	34.45	CO	32.6	150			VC	2.236988	
1202	34.62	CO	28.38	525			CO	74.79561	1 in 187
2100	34.69	CO	31.67	610			BR	57.28001	
1322		CO		100			VC	10.4655	
0101	33.37	CO	30.42	560			BR	27.78469	
1304		CO	0	525			CO	18.29317	
2902	35.16	CO	32.52	225			VC	55.14166	1 in 110
2501	35.93	CO	31.63	600			BR	69.77935	1 in 137
4103	34.88	CO	32.38	600			BR	10.1253	
1216	34.9	CO	0	600			VC	92	
1216		CO		600			VC	2.871551	
0006	33.69	CO	31.01	620			BR	4.123106	
0006	33.69	CO	31.01	620			BR	4.123106	
1301	34.62	CO	29.83	525			CO	55.51116	
4503	35.49	CO	31.03	300			CI	8.544603	1 in 0.32217208
1002	33.59	CO	30.96	570			BR	51.78803	1002
1002	33.59	CO	30.96	570			BR	51.78803	
9400	33.95	CO	30.68	300			VC	35.43739	1 in 31
0405	34.66	CO	29.03	600			CO	14.56022	1 in 112
2201	34.69	CO	33.34	225			VC	32.06244	1 in 92
3202	34.84	CO	32.64	375			CO	68.94926	1 in 255
4201	35.28	CO	33.17	580			BR	9.055396	
1217		CO		100			VC	19.53001	
3400	35.33	SW	31.86	300			CO	19.84943	1 in 496
0212		CO	31.19	300			VC	68.47559	1 in 196
1308	34.88	CO	29.89	525			VC	14.99078	1 in 300
0304		CO	0	225			CO	13.64062	
9301		CO	0	225			CO	24.8776	
9301		CO	0	225			CO	24.8776	
1321		CO		100			VC	27.92004	
1314	34.68	SW	32.22	1805			BR	116.8409	1 in 142
1319		CO		150			VC	31.71808	
1302	34.71	CO	32.22	225			VC	1.892954	
0404	34.63	CO	28.83	600			VC	92.97311	1 in 664
9501	34.57	CO	31.72	375			VC	56.61272	1 in 354
9501	34.57	CO	31.72	375			VC	56.61272	1 in 354
1402	34.95	SW	32.6	1805			BR	105.3613	1 in 301
2001	33.6	CO	31.19	1500			BR	126.0212	1 in 409
2001	33.6	CO	31.19	1500			BR	126.0212	1 in 409
0505	34.62	CO	30.6	600			CO	18.14314	
0205	33.91	CO	30.83	300			VC	18.14314	1 in 202
0408	34.5	CO	32.06	300			VC	44.12879	1 in 202
0502	34.38	CO	31.92	225			VC	44.12879	1 in 16
0502	34.38	CO	31.92	225			VC	4.175835	
0310		CO		150			VC	4.175835	
0310		CO		150			VC	6.431989	
1213		CO	0	225			VC	6.431989	
3102	34.23	CO	31.97	580			CO	19.66908	
1903	34.05	CO	30.98	450			PVC	36.40095	1 in 260
1903	34.05	CO	30.98	450			CO	49	1 in 129
4203		CO	0	600			CO	49	1 in 129
2400	34.87	CO	31.41	600			BR	147.51	
1317		CO	0	525			BR	57.69749	
1300	34.61	CO	32.72	300			CO	24.55987	
2502	36.06	CO	32.11	675			VC	13.34196	
1101	33.83	CO	30.5	760			BR	33.12699	1 in 70
2204	33.91	CO	32.1	225			BR	19.23538	
5901	35.24	CO	0	610			VC	9	
5901	35.24	CO	0	610			BR	59.3043	
1207	34.3	SW	31.36	1805			BR	59.3043	
3304	34.59	CO	31.43	570			BR	159.2388	
9404	34.57	CO	29.23	525			BR	1	
9404	34.57	CO	29.23	525			CO	88.32327	1 in 552
3100	34.74	CO	32	570			CO	88.32327	1 in 552
3101	34.34	CO	32.07	375			BR	16.49242	
0207		CO	0	225			PVC	37.84306	1 in 753
0411		CO	0	225			CO	23.49268	
2002	33.85	CO	31.2	610			CO	6.070935	
2002	33.85	CO	31.2	610			BR	41.59327	1 in 347
5002	35.54	CO	33.53	225			BR	41.59327	1 in 347
4401	35.03	CO	0	600			VC	27.18703	1 in 60
0410		CO	27.55	525			BR	12.7272	
2901	34	CO	31.3	375			VC	61.52235	1 in 88
2901	34	CO	31.3	375			CO	61.52235	1 in 263
1406		CO	0	525			CO	22.91475	
0202		CO	0	225			CO	25.82646	
0210		CO	0	390			CO	14.98547	
3204	34.72	CO	0	650			BR	74.7512	
0301	34.32	SW	32.36	225			VC	31.77663	
2202	34.41	CO	32.98	225			VC	18.62776	1 in 106
3001	34.73	CO	32.78	375			CO	27.07397	
1102	33.71	SW	29.81	1805			BR	88.54942	1 in 277
2903		CO		150			VC	7.130569	
2903		CO		150			VC	7.130569	
4100	34.88	CO	32.42	600			BR	120.1041	
0209		CO	0	300			CO	16.21131	
3004	35.94	CO	31.49	600			BR	64.41273	1 in 3
0904	33.12	CO	30.47	630			BR	65.12296	1 in 93
0904	33.12	CO	30.47	630			BR	65.12296	1 in 93
0904	33.12	CO	30.47	630			BR	65.12296	1 in 93
0904	33.12	CO	30.47	630			BR	65.12296	1 in 93
1001	33.84	CO	31.11	375			VC	8.662258	
1408		CO	0	525			CO	40.72957	
1005	34.11	CO		150			VC	30.99455	
1005	34.11	CO		150			VC	30.99465	
5401	35.95	CO	0	300			VC	30.99465	
0206		CO	0	225			CO	13.06314	
1306		CO	0	525			CO	44.96155	
2901	34.06	CO	31.9	300			BR	69.02273	1 in 166
0208		CO	0	300			CO	12.80492	
1403	35.02	CO	33.05	225			VC	59.13544	1 in 114
9204	33.5	SW	31.75	225			VC	45.58971	1 in 105
0004	33.5	SW	31.75	225			VC	45.58971	1 in 105
0305		CO	0	225			CO	71.65667	
0305	35.48	CO	33.2	640			BR	0	
1103	34.01	CO	31.76	600			BR	20.50126	1 in 48
0907		CO		150			VC	12.78049	
0907		CO		150			VC	12.78049	
3901	34.38	CO	31.83	560			BR	83.02409	1 in 134
3901	34.38	CO	31.83	560			BR	83.02409	1 in 134
1210		CO	0	525			CO	3.370402	
0005	33.37	CO	30.34	600			BR	36.76955	
0005	33.37	CO	30.34	600			CO	36.76955	
1214		CO	0	225			CO	19.29815	
0414		SW	0	225			VC	25.30584	
3201	35.23	CO	32.53	450			VC	65.76473	1 in 274
3503	35.93	CO	31.72	525			BR	15.26434	1 in 85
2203	34.04	CO	32.79	225			VC	8.662258	1 in 73
1211		CO	0	525			CO	26.89218	
0408	34.63	CO	27.12	525			VC	51.24451	1 in 214
0211		CO	0	300			CO	5.099236	
3300	35.43	SW	33.13	375			VC	34.71311	1 in 248
1910		CO		150			VC	8.482361	
1910		CO		150			VC	8.482361	
0407	34.72	CO	27.55	525			VC	5.622344	1 in 16
4400	35.1	SW	32.15	300			CO	42.80197	1 in 195
9502	35.5	CO	32.9	300			VC	52.81099	1 in 46
9502	35.5	CO	32.9	300			VC	52.81099	1 in 46
4502		CO		300			VC	5	1 in
9402	34.81	CO	32.01	225			VC	50.28917	
9402	34.81	CO	32.01	225			VC	50.28917	
0502	34.38	CO		225			VC	30.82417	
0502	34.38	CO		225			VC	30.82417	
0307		CO		150			VC	19.66122	
1904		SW		1050			VC	7.886723	
1906	33.73	CO	28.86	525			BR	16.43764	1 in 103
1005	35.92	CO	31.52	600			CO	42.40296	
1104	34.19	CO	30.92	620			BR	25.05563	1 in 20
1203	34.28	CO	28.68	525			CO	42.07213	1 in 162
1320		CO		100			VC	3.469498	
1305		CO	0	525			CO	15.21912	
2902		CO		150			VC	12.9578	
2902		CO		150			VC	12.9578	
9403	34.6	CO	29.54	300			CO	18.24629	1 in 304
9403	34.6	CO	29.54	300			CO	18.24629	1 in 304
1212		CO	28.68	525			CO	11.41786	1 in 44
4901	34.96	CO	32.28	610			BR	58	1 in 264
4901	34.96	CO	32.28	610			BR	58	1 in 264
1204	34.08	CO	31.33	600			BR	8.6015	
9306		CO		150			VC	11.38232	
9306		CO		150			VC	11.38232	
9305		CO		150			VC	6.805998	
9305		CO		150			VC	6.805998	
0402	34.39	CO	32.72	150			VC	10.44031	
0401	34.42	CO	32.33	225			VC	69.57311	1 in 183

Refno	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad

LEGEND

Abandoned · Foul · Surface Water · Combined

Public Sewer
Private Sewer
Section 104
Rising Main
Sludge Main
Overflow
Water Course
Highway Drain

All point assets follow the standard colour convention:
red - combined · blue - surface water
brown - foul · purple - overflow

- Manhole
- Head of System
- Extent of Survey
- Rodding Eye
- Inlet
- Discharge Point
- Vortex
- Penstock
- Washout Chamber
- Valve
- Air Valve
- Non Return Valve
- Soakaway
- Gully
- Cascade
- Flow Meter
- Hatch Box
- Oil Interceptor
- Summit
- Drop Shaft
- Orifice Plate
- Side Entry Manhole
- Outfall
- Screen Chamber
- Inspection Chamber
- Bifurcation Chamber
- Lamp Hole
- T Junction / Saddle
- Catchpit
- Valve Chamber
- Vent Column
- Vortex Chamber
- Penstock Chamber
- Network Storage Tank
- Sewer Overflow
- Ww Treatment Works
- Ww Pumping Station
- Septic Tank
- Control Kiosk
- Change of Characteristic

MANHOLE FUNCTION

FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

SEWER SHAPE

CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		

SEWER MATERIAL

AC	Asbestos Cement
BR	Brick
PE	Polyethylene
RP	Reinforced Plastic Matrix
CO	Concrete
CSB	Concrete Segment Bolted
CSU	Concrete Segment Unbolted
CC	Concrete Box Culverted
PSC	Plastic / Steel Composite
GRC	Glass Reinforced Plastic
DI	Ductile Iron
PVC	Polyvinyl Chloride
CI	Cast Iron
SI	Spun Iron
ST	Steel
VC	Vitrified Clay
PP	Polypropylene
PF	Pitch Fibre
MAC	Masonry, Coursed
MAR	Masonry, Random
U	Unspecified

Address or Site Reference:

Heineken Manchester Denmark Road,

OS sheet Number: SJ8496SW
Scale: 1:1250 **Date:** 28/12/2018
Nodes: 187
Sheet: 1 of 4

Printed by: Property Searches

SEWER RECORDS

United Utilities — helping life flow smoothly

Refno	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad
1904	33.75	CO	31.08	450			CO	40.0125	1 in 667
1904	33.75	CO	31.08	450			CO	40.0125	1 in 667
1603	33.56	CO	31.21	300			VC	9.213544	1 in 8
2403	33.67	CO	31.47	225			VC	23.85	1 in 200
1908		CO		150			VC	33.45214	1 in 200
1901		CO	0	2250			BR	152.3868	
1601	33.74	CO	31.92	300			VC	15.23155	1 in 109
2404	33.8	CO	30.04	300			VC	23.23107	1 in 78
2503	33.98	CO	30.72	300			VC	24.1541	1 in 56
0701	32.67	CO	29.56	450			VC	7.615773	1 in 95
0701	32.67	CO	29.56	450			VC	7.615773	1 in 95
2601	33.97	CO	32.09	300			VC	52	1 in 57
1604	33.67	CO	31.44	300			VC	21	1 in 140
4401	34.42	CO	32.5	300			VC	30.0164	
3414		CO		150			VC	6.914375	
2904		CO		150			VC	9.103977	
2904		CO		150			VC	9.103977	
4403	34.46	CO	32.54	300			VC	16	1 in 1600
1406	33.35	CO	31.63	225			VC	44	1 in 133
2505	33.93	CO	29.33	610			BR	46.11	1 in 231
3410	34.2	SW	31.5	450			CO	28.0295	1 in 299
4802	34.97	CO	31.65	760			BR	69.06519	
1702	33.88	CO	31.59	375			CO	81.59857	1 in 185
2905		CO		150			VC	19.19699	
2905		CO		150			VC	19.19699	
0702	32.96	CO	31.34	300			CO	32.06244	1 in 267
0002	33.39	SW	29.49	1805			BR	12.52996	
0002	33.39	SW	29.49	1805			BR	12.52996	
0004	33.33	CO	31.09	300			VC	23.43075	1 in 167
0004	33.33	CO	31.09	300			VC	23.43075	1 in 167
1905		CO		150			VC	5.863502	
1905		CO		150			VC	5.863502	
5408	34.54	CO	32.68	225			VC	16.02776	1 in 38
4505	34.79	CO	31.38	600			BR	55.03635	1 in 393
0703	33.29	CO	29.6	750			BR	104.2945	1 in 316
4702	34.97	CO	31.05	620			BR	65.7	
0002	32.95	CO	27.16	760			BR	47.01664	1 in 392
0002	32.95	CO	27.16	760			BR	47.01664	1 in 392
0612		CO		150			VC	6.749316	
3602	34.28	CO	31.02	300			VC	30.01656	1 in 33
1505	33.64	CO	31.38	300			VC	16	1 in 90
0502	33.19	CO	27.31	770			BR	41	1 in 342
0502	33.19	CO	27.31	770			BR	41	1 in 342
1607	33.52	CO	30.02	750			BR	24.73863	1 in 112
0702	32.65	CO	24.56	2450			BR	191.4129	
0702	32.65	CO	24.58	2450			BR	191.4129	
1506	33.66	CO	28.87	650			BR	17.02839	1 in 29
1606	33.56	CO	31.25	300			VC	12.80625	1 in 8
1509	33.48	CO	31.33	300			VC	32.06244	1 in 75
0408	33.12	CO	30.05	300			VC	47	1 in 92
0901	33.49	CO	30.54	525			CO	20.02498	1 in 54
4602	34.55	CO	31.68	620			BR	24.18877	1 in 173
0601	34.39	CO	0	450			VC	100.005	
1605	33.66	CO	32.48	225			VC	11.04336	1 in 22
0406	32.8	CO	29.16	300			VC	29.06888	1 in 88
0406	32.8	CO	29.16	300			VC	29.06888	1 in 88
3601	34.4	CO	33.08	300			VC	16	1 in 76
1703	33.46	CO	29.88	750			BR	40.60441	
2503	33.98	CO	32.45	225			VC	99.0202	1 in 89
2601	33.97	CO	32.03	300			VC	56	1 in 100
2804		CO		150			VC	8.983191	
2504	33.74	CO	29.12	610			BR	22	1 in 157
0006	33.69	CO	31.01	620			BR	4.123106	
0006	33.69	CO	31.01	620			BR	4.123106	
0802	33.59	CO	30.56	450			CO	15	1 in 42
3504	34.3	CO	29.79	610			BR	40.0125	1 in 235
1605	33.66	CO	31.59	300			VC	20.02498	1 in 80
1602	33.59	CO	30.96	570			BR	51.79803	
1602	33.59	CO	30.96	570			BR	51.79803	
1503	34.28	CO	32.22	300			VC	16	1 in 36
2410	33.83	CO	31.3	225			VC	6.527803	1 in 16
0419		CO		150			VC	2.465992	
1608	33.53	CO	31.72	300			VC	23.02173	1 in 209
0414	33.11	CO	31.31	225			VC	42.0119	1 in 114
1607	33.52	CO	0	1050			BR	9	
5601	34.94	CO	32.72	300			VC	26.01922	1 in 79
1902	33.59	CO	30.59	525			CO	39	1 in 1950
1507	33.66	CO	28.96	580			BR	14	1 in 700
0903	32.87	CO	29.7	640			BR	16	1 in 114
0903	32.87	CO	29.7	640			BR	16	1 in 114
1609	33.55	CO	31.44	300			VC	25.07997	1 in 836
2912		CO		100			VC	9.880688	
0803	33.21	CO	30.64	450			CO	36.79574	1 in 613
4404	34.66	CO	31.73	610			BR	84.58587	1 in 352
5602	35.02	CO	32.37	300			VC	32.00007	1 in 80
2411	33.9	CO	0	300			VC	28.03206	
2402	33.68	CO	30.99	300			VC	29.01724	1 in 33
1502	33.63	CO	28.27	750			BR	51.0392	1 in 72
2001	33.6	CO	31.19	1500			BR	126.9212	1 in 409
2001	33.6	CO	31.19	1500			BR	126.9212	1 in 409
1912		CO		150			VC	15.80875	
3405	34.4	SW	33.1	450			CO	15.03077	1 in 150
2802		CO		150			VC	17.954	
0902	33.54	CO	30.02	675			CO	59.03389	1 in 281
0801	33.15	CO	31.07	450			CO	65.45902	1 in 168
1903	34.05	CO	30.98	450			CO	49	1 in 129
1903	34.05	CO	30.98	450			CO	49	1 in 129
0409	33.19	CO	29.46	300			VC	31.06445	1 in 124
3611		CO		150			VC	10.41981	
1405	33.46	CO	31.9	225			VC	17	1 in 27
2404	33.87	CO	30.28	750			BR	92.2243	1 in 231
2402	33.68	CO	0	300			VC	46	
9404	32.69	CO	0	300			VC	46	
5901	35.24	CO	0	610			BR	59.3043	
5901	35.24	CO	0	610			BR	59.3043	
2409	33.98	SW		0			CO	0.5136748	
2506	34.03	CO	29.49	610			BR	28.90896	1 in 222
2605	34.06	CO	31.65	300			VC	55	1 in 61
2603	33.98	CO	32.61	300			VC	45.01111	1 in 82
1404	33.28	CO	31.94	225			VC	18.02776	1 in 18
5649		CO		150			VC	25.8446	
1501	33.44	CO	27.55	750			BR	44.01336	1 in 400
4701	34.75	CO	25.36	2250			BR	186.0968	1 in 600
1601	33.55	CO	29.32	375			VC	45.04442	1 in 94
2408	33.77	CO	32.15	225			VC	45.01111	1 in 71
1804		CO		150			VC	11.75836	
4604	34.83	CO	31.24	600			BR	54.03703	1 in 284
1604	33.67	CO	32.32	225			VC	11.04336	1 in 36
4506	34.69	CO	31.54	600			BR	55.08176	1 in 367
1901	33.64	CO	30.9	300			CO	38.58756	1 in 146
0914		CO		150			VC	13.72601	
2501	33.75	CO	31.99	300			VC	49.0102	1 in 82
3801	34.69	CO	31.46	630			BR	73.33465	1 in 188
1602	33.51	CO	29.82	375			VC	49.0408	1 in 104
2509		FO		100			VC	12.46258	
2002	33.85	CO	31.2	610			BR	41.59327	1 in 347
2002	33.85	CO	31.2	610			BR	41.59327	1 in 347
1701	33.57	CO	30.37	375			VC	44.04543	1 in 83
4402	34.47	CO	32.34	300			VC	24.08319	
4503	34.51	CO	32.24	375			VC	26.30569	1 in 114
1602		CO		150			VC	11.37314	
2901	34	CO	31.3	375			CO	61.52235	1 in 293
2901	34	CO	31.3	375			CO	61.52235	1 in 293
1904		CO		150			VC	6.149589	
1906		CO		150			VC	8.004659	
0703	32.78	CO	29.45	750			BR	107.4161	1 in 250
0703	32.78	CO	29.45	750			BR	107.4161	1 in 250
4502	34.43	CO	32	375			VC	25.71936	1 in 180
4602	34.67	CO	31.52	620			BR	44.40721	
1504	33.54	CO	31.16	300			VC	10.63015	1 in 5
1502	33.71	SW	29.81	1805			BR	88.54942	1 in 277
2402	33.68	CO	32.31	225			VC	23	1 in 28
2903		CO		150			VC	7.130569	
2903		CO		150			VC	7.130569	
1402	33.36	CO	31.27	225			VC	22	1 in 122
3413		CO		150			VC	23.13009	
3505	34.54	CO	30.08	610			BR	46	1 in 192
3702	34.46	CO	30.61	740			BR	106	1 in 366
2602	34.15	CO	32.58	300			VC	48.01067	1 in 97
3406	34.47	SW	33	450			CO	28.47027	1 in 190
0904	33.12	CO	30.47	630			BR	65.12296	1 in 93
0904	33.12	CO	30.47	630			BR	65.12296	1 in 93
0904	33.12	CO	30.47	630			BR	65.12296	1 in 93
0904	33.12	CO	30.47	630			BR	65.12296	1 in 93
5701	35.24	CO	31.95	300			VC	2	
4501	34.42	CO	31.82	620			BR	26.1725	1 in 238
1005	34.11	CO		150			VC	30.09465	
1005	34.11	CO		150			VC	30.09465	
4504	34.58	CO	31.58	610			BR	18.78263	
1505	33.64	CO	32.17	225			BR	21.0236	1 in 28
2601	34.06	CO	31.9	300			CO	88.02273	1 in 166
3408	34.35	SW	31.6	450			CO	30.27752	1 in 303
3602	34.38	CO	32.86	300			VC	68.0294	1 in 110
3701	34.41	CO	31.37	300			VC	9.053386	
2602	34.15	CO	0	300			VC	60.67445	
2602		CO		150			VC	12.78049	
0907		CO		150			VC	12.78049	
3901	34.38	CO	31.83	580			BR	83.02409	1 in 134
3901	34.38	CO	31.83	580			BR	83.02409	1 in 134
3404	34.5	SW	33.4	225			VC	12.46715	1 in 42
1403	33.25	CO	29.85	300			VC	47.01664	1 in 142
4601	35.4	CO	33.48	225			VC	75.19859	1 in 82
2701	33.93	CO	31.1	300			VC	7.071068	
0807		CO		150			VC	9.093446	
3601	34.4	CO	31.8	300			VC	39.20459	1 in 101
1910		CO		150			VC	8.462361	
1910		CO		150			VC	8.462361	
2604	33.83	CO	32.08	300			VC	48	1 in 109
3503	34.12	CO	29.6	610			BR	16	1 in 178
5407	34.56	CO	32.2	225			VC	7	1 in 8
3409	34.32	FO	32	150			VC	42.41223	1 in 109
3408	33.53	CO	31.21	225			VC	25	1 in 147
3407	34.48	SW	33.47	150			VC	10.29763	1 in 28
0505		CO		150			VC	2.539301	
1401	33.33	CO	29.52	300			VC	30.01666	1 in 167
4601	34.85	CO	0	620			BR	27.45906	
4504	34.56	CO	30.3	610			BR	38.98711	1 in 217
4507	34.67	CO	30.57	525			CO	60.73476	1 in 190
2412	34.06	FO	31.61	150			VC	20.2857	1 in 65
0813		CO		150			VC	40.64032	
2502	33.94	CO	32.5	300			VC	45.01111	1 in 96
0804	32.76	CO	29.44	610			BR	23.08579	
0804	32.76	CO	29.44	610			BR	23.08579	
2405	33.64	CO	30.42	300			VC	24.02213	1 in 69
5406	34.57	CO	31.33	225			VC	6	1 in 53
1810		CO		150			VC	19.52302	
2703	33.83	CO	25.07	2250			BR	140.4279	
1803		CO		150			VC	17.74558	
3411		CO		150			VC	9.06364	
1503	33.56	CO	28.84	150			VC	47.01664	1 in 85
2902		CO		150			VC	12.9576	

Refno	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad
0410	33.22	CO	30.92	225			VC	24.02082	1 in 240
4901	34.96	CO	32.28	610			BR	58	1 in 264
4901	34.96	CO	32.28	610			BR	58	1 in 264
0501	33.16	CO	27.29	720			BR	4	1 in 200
0501	33.16	CO	27.29	720			BR	4	1 in 200
0406	33	CO	29.3	300			VC	30.12929	1 in 274
0406	33	CO	29.3	300			VC	30.12929	1 in 274
0503	33.29	CO	27.44	760			BR	1.4	1 in 400
3607		CO		225			VC	72.28702	
0405	32.91	CO	30.25	300			VC	44.89475	1 in 47
0405	32.91	CO	30.25	300			VC	44.89475	1 in 47
3512		CO		150			VC	18.64203	
0411	32.97	CO	31.43	225			VC	44.79205	1 in 132
3510		CO		150			VC	17.02699	
0407	33.06	CO	31.09	225			VC	22.65167	1 in 57

LEGEND

Abandoned Foul Surface Water Combined

Public Sewer
Private Sewer
Section 104
Rising Main
Sludge Main
Overflow
Water Course
Highway Drain

All point assets follow the standard colour convention:
red - combined blue - surface water
brown - foul purple - overflow

- Manhole
- Head of System
- Extent of Survey
- Rodding Eye
- Inlet
- Discharge Point
- Vortex
- Penstock
- Washout Chamber
- Valve
- Air Valve
- Non Return Valve
- Soakaway
- Gully
- Cascade
- Flow Meter
- Hatch Box
- Oil Interceptor
- Summit
- Drop Shaft
- Orifice Plate
- Side Entry Manhole
- Outfall
- Screen Chamber
- Inspection Chamber
- Bifurcation Chamber
- Lamp Hole
- T Junction / Saddle
- Catchpit
- Valve Chamber
- Vent Column
- Vortex Chamber
- Penstock Chamber
- Network Storage Tank
- Sewer Overflow
- Ww Treatment Works
- Ww Pumping Station
- Septic Tank
- Control Kiosk
- Change of Characteristic

MANHOLE FUNCTION

FO Foul
SW Surface Water
CO Combined
OV Overflow

SEWER SHAPE

CI Circular
EG Egg
OV Oval
FT Flat Top
RE Rectangular
SQ Square
TR Trapezoidal
AR Arch
BA Barrel
HO HorseShoe
UN Unspecified

SEWER MATERIAL

AC Asbestos Cement
BR Brick
PE Polyethylene
RP Reinforced Plastic Matrix
CO Concrete
CSB Concrete Segment Bolted
CSU Concrete Segment Unbolted
CC Concrete Box Culverted
PSC Plastic / Steel Composite
GRC Glass Reinforced Plastic
DI Ductile Iron
PVC Polyvinyl Chloride
CI Cast Iron
SI Spun Iron
ST Steel
VC Vitrified Clay
PP Polypropylene
PF Pitch Fibre
MAC Masonry, Coursed
MAR Masonry, Random
U Unspecified

Address or Site Reference:

Heineken Manchester Denmark Road,

OS sheet Number: SJ8495NW
Scale: 1:1250 **Date:** 28/12/2018
Nodes: 216
Sheet: 2 of 4

Printed by: Property Searches

SEWER RECORDS

United Utilities
helping life flow smoothly

The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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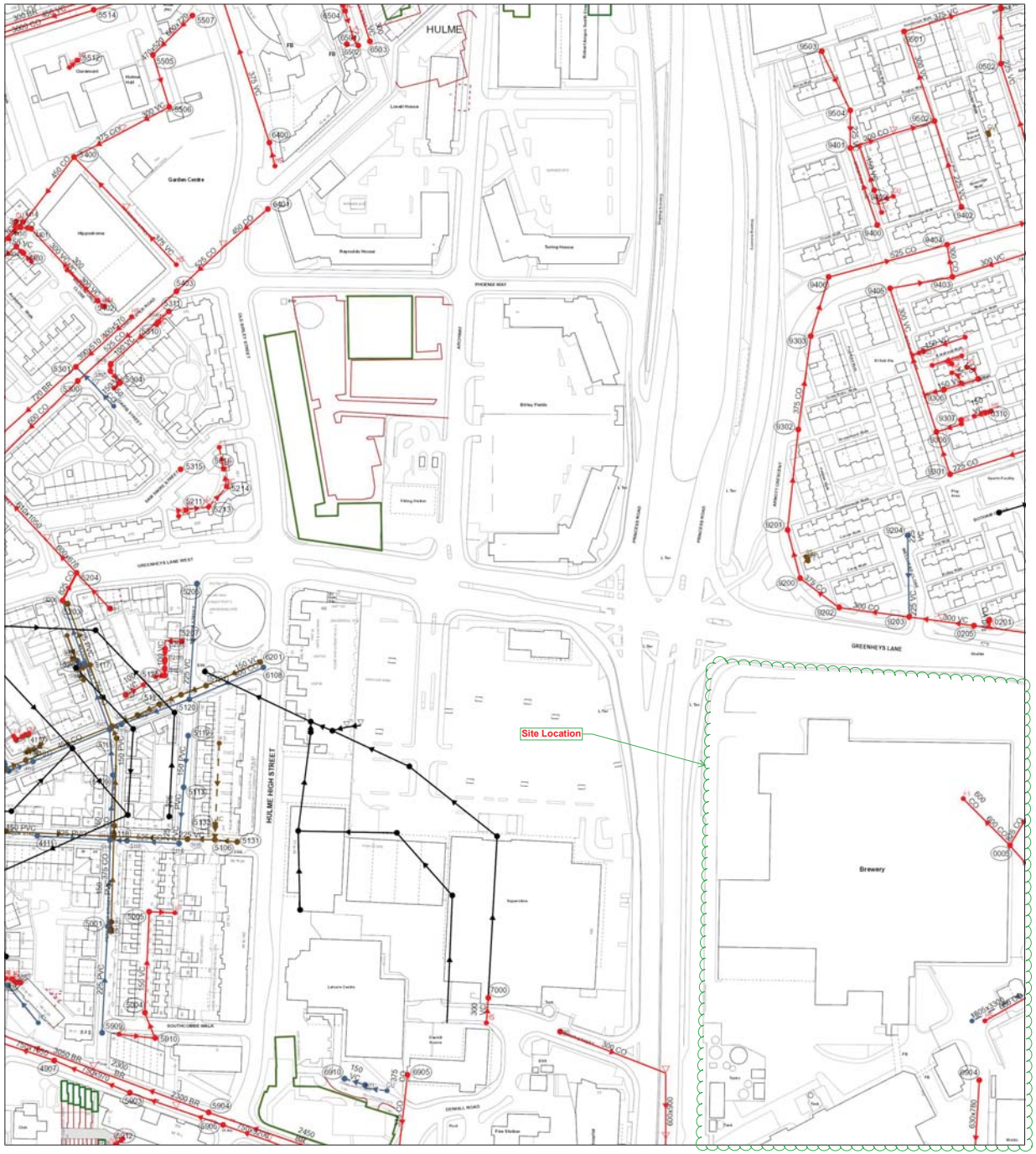

The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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Refno	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad
9300	33.89	CO	31.06	300			VC	84.15765	1 in 221
9300	33.89	CO	31.06	300			VC	84.15765	1 in 221
5126		CO		100			VC	3.806781	
4116	33.13	FO	29.09	150			PVC	5.164464	1 in 143
5106	33.31	SW	29.96	225			PVC	7.305597	1 in 4
5103	32.2	FO	27.88	150			PVC	3.249516	1 in 18
4001		CO		100			PE	1.72915	
4009		CO		100			VC	2.219719	
4009		CO		100			VC	2.219719	
7901	33.14	CO	31.3	300			CO	63.32466	
7901	33.14	CO	31.3	300			CO	63.32466	
5131		FO		225			VC	12.52583	
5905	31.86	CO	28.14	750			BR	27.51363	1 in 172
5905	31.86	CO	28.14	750			BR	27.51363	1 in 172
5506	33.52	CO	29.46	300			VC	29.52665	1 in 128
4206	32.11	CO	27.7	825			CO	17.39212	1 in 79
4116		CO		100			VC	2.377321	
6400	32.87	CO	28.83	375			VC	107.6927	1 in 135
5004		CO		150			VC	56.50772	
5004		CO		150			VC	56.50772	
9404	34.57	CO	29.23	525			CO	88.32327	1 in 552
9404	34.57	CO	29.23	525			CO	88.32327	1 in 552
5116	32.48	FO	29.27	150			PVC	48.81601	1 in 125
9203	33.58	CO	30.64	300			CO	39.46372	1 in 146
9203	33.58	CO	30.64	300			CO	39.46372	1 in 146
5311		CO		100			VC	43.47447	
4404		CO		150			VC	13.13227	
5111	32.39	SW	29.3	525			CO	9.398947	1 in 11
0201		CO		150			VC	4.584419	
0201		CO		150			VC	4.584419	
4117		CO		100			VC	5.947394	
5205	32.34	SW	30.94	225			VC	64.64909	1 in 104
4110	33.18	SW	29.24	450			CO	46.16934	1 in 45
9302	33.67	CO	29.79	375			CO	52.46904	1 in 119
9408		CO	31.4	525			CO	58.41052	
5108	33.59	FO	31.44	300			CO	47.59491	1 in 40
5002	32.02	FO	29.62	150			PVC	47.75172	1 in 149
5002	32.02	FO	29.62	150			PVC	47.75172	1 in 149
4404		CO		150			VC	56.50772	
5909	31.77	SW	30.62	225			PVC	59.28731	1 in 34
5909	31.77	SW	30.62	225			PVC	59.28731	1 in 34
5210		SW		225			VC	2.91744	
9202	33.5	CO	30.3	375			CO	27.21922	1 in 340
4111	32.24	SW	30.19	225			PVC	40.81896	1 in 23
6401	33.11	CO	29.7	450			CO	32.95317	1 in 150
6201	33.5	FO	32.3	150			VC	33.01572	1 in 67
5120	33.07	SW	30.32	450			CO	40.30047	1 in 112
5105		FO		225			VC	41.10695	
4907	34.77	CO	30.62	750			BR	34.78505	
4907	34.77	CO	30.62	750			BR	34.78505	
5109	32.59	SW	28.32	750			CO	25.36038	1 in 231
5124	33.25	FO	29.15	150			VC	15.46426	1 in 37
0904	33.12	CO	30.47	630			BR	65.12296	1 in 93
0904	33.12	CO	30.47	630			BR	65.12296	1 in 93
0904	33.12	CO	30.47	630			BR	65.12296	1 in 93
0904	33.12	CO	30.47	630			BR	65.12296	1 in 93
5304		CO		150			VC	4.57439	
5120		CO		100			VC	11.23012	
5123	33.15	FO	30.53	150			VC	13.72597	1 in 10
5307		CO		100			VC	8.293975	
5003	32	FO	29.65	150			PVC	5.041429	1 in 168
5003	32	FO	29.65	150			PVC	5.041429	1 in 168
5400	33.24	CO	28.95	450			CO	49.20386	1 in 107
5001	32	SW	28.9	375			CO	48.30943	1 in 103
5001	32	SW	28.9	375			CO	48.30943	1 in 103
5115	32.66	FO	28.88	150			PVC	7.196327	1 in 48
5117	32.55	FO	28.12	225			PVC	36.52824	1 in 152
5116	32.48	FO	28.73	225			PVC	36.52843	1 in 59
5116	32.48	FO	29.3	150			PVC	3.994414	1 in 200
9303	31.19	CO	29.68	150			BR	64.18388	
5904	31.64	CO	24.08	2300			BR	64.35203	
5904	31.64	CO	24.08	2300			BR	64.35203	
5107	32.9	SW	28.21	750			CO	39.66611	1 in 220
6503	33.83	CO	31.5	300			VC	65.21564	1 in 119
9204	33.5	SW	31.75	225			VC	45.59971	1 in 106
9204	33.5	SW	31.75	225			VC	45.59971	1 in 106
4401	32.64	CO	28.8	300			CO	6.082753	1 in 38
4004	32.63	SW	30.09	1390				37.21559	1 in 930
4004	32.63	SW	30.09	1390				37.21559	1 in 930
9405	33.95	CO	30.68	300			VC	35.43739	1 in 31
0305		CO	0	225			CO	71.65667	
5209		CO		100			VC	4.874985	
9201	33.84	CO	30.06	375			CO	56.32051	1 in 225
9503		CO	0	225			VC	36.67424	
0005	33.37	CO	30.34	600			CO	36.76955	
0005	33.37	CO	30.34	600			CO	36.76955	
4403		CO		150			VC	5.477767	
9400	33.94	CO	32.14	225			VC	45.54119	
5005		CO		150			VC	14.35202	
5005		CO		150			VC	14.35202	
5505	33.49	CO	29.64	300			VC	30.39445	1 in 179
0212		CO	31.19	300			VC	69.47559	1 in 196
5507	33.48	CO	29.89	600			BR	15.55535	1 in 141
5112	32.71	SW	30.65	150			PVC	28.95062	1 in 50
9401	34.22	CO	32.28	300			CO	25.30202	1 in 74
9301		CO	0	225			CO	24.8776	
9301		CO	0	225			CO	24.8776	
6901	31.9	CO	28.21	750			BR	26.92582	1 in 898
9504		CO	0	225			VC	21	
5122	33.07	FO	31.69	150			VC	13.1704	1 in 11
5105		FO		225			VC	3.167521	
5103		SW		225			VC	14.76782	
4105	33.18	SW	29.29	525			CO	5.438538	
4402	32.84	CO		225			CO	14.68833	1 in 294
5110	32.4	SW	28.43	750			CO	9.154697	
5300	32.97	CO	28.32	600			CO	38.22233	1 in 329
6911		SW		150			VC	73.44656	
6911		SW		150			VC	11.82275	
5201	31.84	CO	27.85	600			BR	27.284	
9501	34.57	CO	31.72	375			VC	56.61272	1 in 354
9501	34.57	CO	31.72	375			VC	56.61272	1 in 354
9502	35.5	CO	32.9	300			VC	52.81099	1 in 46
9502	35.5	CO	32.9	300			VC	52.81099	1 in 46
6905	33.24	CO	29.95	375			CO	53.33854	1 in 184
6905	33.24	CO	29.95	375			CO	53.33854	1 in 184
9402	34.61	CO	32.01	225			VC	50.28917	
9402	34.61	CO	32.01	225			VC	50.28917	
0502	34.38	CO		225			VC	30.82417	
0502	34.38	CO		225			VC	30.82417	
0307		CO		150			VC	19.86122	
0307		CO		150			VC	19.86122	
0205	33.91	CO	30.83	300			VC	18.14314	1 in 202
0205	33.91	CO	30.83	300			VC	18.14314	1 in 202
4410		CO		525			CO	27.63242	
5102		FO		225			VC	6.230314	
0408	34.5	CO	32.06	300			VC	44.12879	1 in 18
4115	32.12	FO	29.99	150			PVC	50.50107	1 in 88
5306		CO		100			VC	4.055799	
0502	34.38	CO	31.92	225			VC	4.175835	
0502	34.38	CO	31.92	225			VC	4.175835	
0310		CO		150			VC	6.431089	
0310		CO		150			VC	6.431089	
5101	33.06	FO	31.81	150			VC	19.94132	1 in 124
5101		SW	0	525			CO	29.04132	
5207		SW		225			VC	13.94536	
9403	32.41	CO	29.25	525			CO	74.15558	
5903	31.79	CO	27.82	750			BR	22.84732	
5903	31.79	CO	27.82	750			BR	22.84732	
5113	32.76	SW	30.07	225			PVC	31.44276	
5202	32.5	SW	28.03	750			CO	37.01732	1 in 112
5301	32.93	CO	28.33	720			BR	72.91776	1 in 228
5910		CO		150			VC	15.24798	
5910		CO		150			VC	15.24798	
5204	32.57	CO	0	600			BR	24.04636	
5208		CO		100			VC	5.945171	
9403	34.6	CO	29.54	300			CO	18.24929	1 in 304
9403	34.6	CO	29.54	300			CO	18.24929	1 in 304
5402	32.11	CO	29.21	300			VC	54.48853	1 in 156
9200	33.64	CO	30.22	375			CO	27.89265	1 in 174
9306		CO		150			VC	11.38232	
9306		CO		150			VC	11.38232	
9305		CO		150			VC	6.805898	
9305		CO		150			VC	6.805898	
9402	34.39	CO	32.72	150			VC	10.44031	
5514		CO	0	3600			CO	312.8489	
0401	34.42	CO	32.33	225			VC	69.57311	1 in 183

Refno	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad

LEGEND

Abandoned · Foul · Surface Water · Combined

Public Sewer
Private Sewer
Section 104
Rising Main
Sludge Main
Overflow
Water Course
Highway Drain

All point assets follow the standard colour convention:
red - combined · blue - surface water
brown - foul · purple - overflow

- Manhole
- Head of System
- Extent of Survey
- Rodding Eye
- Inlet
- Discharge Point
- Vortex
- Penstock
- Washout Chamber
- Valve
- Air Valve
- Non Return Valve
- Soakaway
- Gully
- Cascade
- Flow Meter
- Hatch Box
- Oil Interceptor
- Summit
- Drop Shaft
- Orifice Plate
- Side Entry Manhole
- Outfall
- Screen Chamber
- Inspection Chamber
- Bifurcation Chamber
- Lamp Hole
- T Junction / Saddle
- Catchpit
- Valve Chamber
- Vent Column
- Vortex Chamber
- Penstock Chamber
- Network Storage Tank
- Sewer Overflow
- Ww Treatment Works
- Ww Pumping Station
- Septic Tank
- Control Kiosk
- Change of Characteristic

MANHOLE FUNCTION

FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

SEWER SHAPE

CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		

SEWER MATERIAL

AC	Asbestos Cement
BR	Brick
PE	Polyethylene
RP	Reinforced Plastic Matrix
CO	Concrete
CSB	Concrete Segment Bolted
CSU	Concrete Segment Unbolted
CC	Concrete Box Culverted
PSC	Plastic / Steel Composite
GRC	Glass Reinforced Plastic
DI	Ductile Iron
PVC	Polyvinyl Chloride
CI	Cast Iron
SI	Spun Iron
ST	Steel
VC	Vitrified Clay
PP	Polypropylene
PF	Pitch Fibre
MAC	Masonry, Coursed
MAR	Masonry, Random
U	Unspecified

Address or Site Reference:

Heineken Manchester Denmark Road,

OS sheet Number: SJ8396SE
Scale: 1:1250 **Date:** 28/12/2018
Nodes: 157
Sheet: 3 of 4

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SEWER RECORDS

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Refno	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad
5507		SW		0			UN	30.52526	
5501	31.16	CO	28.69	450			CO	20.02498	1 in 222
8602	32.5	CO	29.53	450			VC	86.01688	1 in 307
7901	33.14	CO	31.3	300			CO	63.32466	
7901	33.14	CO	31.3	300			CO	63.32466	
5504		CO		2300			BR	27.51358	
5905	31.86	CO	28.14	750			BR	27.51363	1 in 172
5906	31.91	CO	28.63	300			VC	21.37756	1 in 107
9701	32.67	CO	29.58	450			VC	7.615773	1 in 95
9701	32.67	CO	29.58	450			VC	7.615773	1 in 95
6601	31.88	CO	29.23	375			CO	24.02082	1 in 96
6804	32.02	CO	29.48	225			VC	40.31129	1 in 115
5809		CO		150			VC	12.36351	
5402	31.13	CO	28.23	300			CO	31	1 in 45
8504	32.26	CO	26.61	770			BR	152	1 in 724
5801	31.87	CO	29.21	450			VC	39.62323	1 in 209
9703	33.29	CO	29.8	750			BR	104.2945	1 in 316
5908	31.77	SW	30.62	225			PVC	59.28751	1 in 34
5909	31.77	SW	30.62	225			PVC	59.28751	1 in 34
9602	32.95	CO	27.18	780			BR	47.01064	1 in 392
9502	32.95	CO	27.18	780			BR	47.01064	1 in 392
5504	31.07	CO	28.39	525			CO	16.03122	1 in 200
6410		CO		150			VC	5.034476	
0502	33.19	CO	27.31	770			BR	41	1 in 342
0502	33.19	CO	27.31	770			BR	41	1 in 342
9503	32.82	CO	30.78	150			VC	17.11724	1 in 342
9702	32.65	CO	24.58	2450			BR	191.4129	
9702	32.65	CO	24.58	2450			BR	191.4129	
5603	31.32	CO	28.85	375			CO	61.0082	1 in 678
4907	34.77	CO	30.62	750			BR	34.78505	
4907	34.77	CO	30.62	750			BR	34.78505	
9405	31.28	CO	29.26	300			CO	39.01282	1 in 91
0601	34.39	CO	0	450			VC	100.005	
7703	32.18	CO	30.29	225			VC	64.09781	1 in 123
9406	32.6	CO	29.16	300			VC	29.06688	1 in 88
9406	32.6	CO	29.16	300			VC	29.06688	1 in 88
9403		CO		150			VC	2.654624	
7724	32.24	CO	30.43	0			VC	25.01666	1 in 417
6609		SW		0			BR	78.24707	
5502	31.1	CO	28.57	450			CO	31.01612	1 in 222
5505	30.98	CO	28.58	375			CO	26.07681	1 in 201
5001	32	SW	28.9	375			CO	48.30943	1 in 103
5001	32	SW	28.9	375			CO	48.30943	1 in 103
7701	32.3	CO	29.61	375			CO	73.1642	1 in 261
7601	32.29	CO	28.24	750			BR	51.0098	1 in 650
5904	31.84	CO	24.08	2300			BR	68.35203	
5904	31.84	CO	24.08	2300			BR	68.35203	
5509		CO		100			VC	7.545934	
9802	32.6	CO	29.02	750			BR	69.21229	
5408		CO		150			VC	15.31035	
8701	32	CO	29.77	300			CO	50	1 in 294
5813		CO		150			VC	6.236243	
8702	32.41	CO	29.22	450			VC	10.91868	1 in 364
7602	32.25	CO	30.1	225			VC	30	1 in 88
8702	31.86	CO	29.46	450			CO	30.01666	1 in 131
5802	31.73	CO	29.69	375			CO	28.28427	1 in 257
6506	31.61	CO	28.61	525			CO	1.415386	
7603	32.19	CO	29.67	300			CO	55.44366	1 in 163
0903	32.87	CO	29.7	640			BR	16	1 in 114
0903	32.87	CO	29.7	640			BR	16	1 in 114
5604		SW		0			UN	96.56183	
5506	31.28	CO	28.3	650			BR	56.00693	1 in 5501
7502	31.98	CO	29.21	375			CO	30.14863	1 in 151
9401	32.44	CO	28.36	300			VC	31.01612	1 in 155
6905	33.24	CO	25.95	375			VC	53.33854	1 in 184
6905	33.24	CO	25.95	375			VC	53.33854	1 in 184
7601	32.03	CO	29.31	375			VC	29.07	1 in 247
9610		CO		150			VC	3.034476	
5813		FO		150			VC	2.634747	
5503	33.54	CO	30.02	675			CO	59.03382	1 in 281
6404		CO		150			VC	29.08742	
8803	33.03	CO	0	980			BR	30.06859	
9501	32.77	CO	27.02	800			BR	47.01064	1 in 672
6904	32	CO	26.07	750			BR	153.015	1 in 739
6904	32.04	CO	25.61	375			VC	2.236068	1 in 0
9603	32.7	CO	29.65	450			VC	8.602325	
8603	32.47	CO	0	770			BR	178.0112	
6801	31.97	CO	30.08	300			VC	24.35159	1 in 162
9404	32.69	CO	0	300			VC	46	
9404	32.69	CO	0	300			VC	46	
5503	31.2	CO	29.42	225			VC	22.02271	1 in 37
5901	31.94	CO	28.78	525			CO	48.6921	1 in 374
4009		CO		100			VC	2.219719	
4009		CO		100			VC	2.219719	
6504	31.75	CO	29.95	300			CO	52.23983	1 in 80
6506	31.61	CO	28.61	525			CO	29.65327	
5004		CO		150			VC	56.50772	
5004		CO		150			VC	56.50772	
8511		SW		150			VC	11.23139	
9608		CO	0	150			VC	32.04481	
5601	31.4	CO	25.88	760			BR	121.0372	1 in 1009
6703	32.01	CO	29.61	300			CO	31.06445	1 in 444
5404	31	CO	29.11	225			VC	13.0384	1 in 93
9403	31.56	CO	28.94	300			CO	30.01666	1 in 42
7803		CO	0	300			BR	29.73214	
5902	32.03	CO	29.46	375			VC	31.01612	1 in 310
6802	32	CO	29.24	375			CO	56.85947	1 in 284
5602	31.33	CO	29.59	225			VC	44.01136	1 in 116
5002	32.02	FO	29.62	150			PVC	47.75172	1 in 149
5002	32.02	FO	29.62	150			PVC	47.75172	1 in 149
9703	32.89	CO	30.45	450			VC	33.09689	1 in 174
9703	32.78	CO	29.45	750			BR	107.4151	1 in 290
9703	32.78	CO	29.45	750			BR	107.4151	1 in 252
5503	32.08	CO	29.99	300			CO	45.01453	1 in 660
5819		FO		100			VC	3.003394	
8501	32.54	CO	26.92	760			BR	58	1 in 527
9418		CO		225			VC	17.06126	
9801	32.89	CO	0	620			BR	63.97656	
9504	32.94	CO	30.67	225			VC	3.605551	1 in 0
8503	32.63	CO	30.25	375			VC	28	1 in 140
8802	32.72	CO	0	1070			BR	4.472136	
0904	33.12	CO	30.47	630			BR	65.12296	1 in 93
0904	33.12	CO	30.47	630			BR	65.12296	1 in 93
0904	33.12	CO	30.47	630			BR	65.12296	1 in 93
0904	33.12	CO	30.47	630			BR	65.12296	1 in 93
9506	32.8	CO	30.83	450			VC	56.00893	1 in 86
5404	32.35	CO	0	300			VC	45.04442	
9417		CO		225			VC	22.31138	
5003	32	FO	29.65	150			PVC	5.041429	1 in 168
5003	32	FO	29.65	150			PVC	5.041429	1 in 168
7702	32.23	CO	29.63	300			CO	43	
6506	31.61	CO	28.61	525			CO	52.92583	
7403	31.84	CO	29.73	300			CO	73.02739	1 in 128
9409		CO		150			VC	62.29316	
8703	32.43	CO	29.16	450			VC	40.64325	
6903	32.1	CO	23.57	3050			BR	4.123106	
9902	32.2	CO	28.34	750			BR	53.75872	1 in 489
4004	32.63	SW	30.09	1390				37.21559	1 in 930
4004	32.63	SW	30.09	1390				37.21559	1 in 930
7802	32.38	CO	28.55	750			BR	25.63201	
9602	32.79	CO	29.97	450			VC	69.00758	1 in 213
9610		CO		150			VC	7.681459	
9610	32.17	CO	28.15	750			BR	59	1 in 667
6501		SW		0			UN	63.53632	
9405	32.47	CO	0	300			VC	50	
5505		CO		150			VC	14.35202	
5205		CO		150			VC	14.35202	
6901	31.9	CO	28.21	750			BR	26.92582	1 in 898
5803	31.7	CO	29.96	300			VC	6	1 in 50
7601	32.51	CO	29.33	375			CO	69.28925	1 in 277
6808		SW		100			VC	9.059731	
9407	32.62	CO	0	300			VC	30.01666	
6911		SW		150			VC	11.82275	
6911		SW		150			VC	11.82275	
6602	31.66	CO	29.72	225			VC	38.01316	1 in 112
9508		CO		100			VC	8.559363	
5413		CO		150			VC	6.39105	
6402		CO		150			VC	23.23719	
5701	31.69	CO	29.59	300			VC	59	1 in 268
0804	32.76	CO	29.44	610			BR	23.08679	
0804	32.76	CO	29.44	610			BR	23.08679	
5510		CO		100			VC	16.92827	
5903	31.79	CO	27.82	750			BR	22.84732	
5903	31.79	CO	27.82	750			BR	22.84732	
5910		CO		150			VC	15.24798	
5910		CO		150			VC	15.24798	
7503	31.92	CO	28.95	525			CO	66.01768	1 in 630
6505	31.68	CO	28.83	525			CO	79.91305	1 in 390
8802	32.72	CO	28.6	720			BR	14.86607	1 in 743
5510		CO		100			VC	3.380162	
5808		CO		150			VC	5.549957	
7402	31.87	CO	30.09	225			VC	33.06955	1 in 92
4606		CO		150			VC	33.65176	
9501	33.16	CO	27.29	720			BR	4	1 in 200
9501	33.16	CO	27.29	720			BR	4	1 in 200
9406	33	CO	29.3	300			VC	30.12929	1 in 274
9406	33	CO	29.3	300			VC	30.12929	1 in 274
9512		CO		100			VC	9.126545	
0503	33.29	CO	27.44	750			BR	46	1 in 430
0407	33.06	CO	31.09	225			VC	22.65167	1 in 57
0406	32.91	CO	30.25	300			VC	44.89475	1 in 47
0405	32.91	CO	30.25	300			VC	44.89475	1 in 47

Refno	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad

LEGEND

Abandoned · Foul · Surface Water · Combined

Public Sewer
Private Sewer
Section 104
Rising Main
Sludge Main
Overflow
Water Course
Highway Drain

All point assets follow the standard colour convention:
red - combined · blue - surface water
brown - foul · purple - overflow

- Manhole
- Head of System
- Extent of Survey
- Rodding Eye
- Inlet
- Discharge Point
- Vortex
- Penstock
- Washout Chamber
- Valve
- Air Valve
- Non Return Valve
- Soakaway
- Gully
- Cascade
- Flow Meter
- Hatch Box
- Oil Interceptor
- Summit
- Drop Shaft
- Orifice Plate
- Side Entry Manhole
- Outfall
- Screen Chamber
- Inspection Chamber
- Bifurcation Chamber
- Lamp Hole
- T Junction / Saddle
- Catchpit
- Valve Chamber
- Vent Column
- Vortex Chamber
- Penstock Chamber
- Network Storage Tank
- Sewer Overflow
- Ww Treatment Works
- Ww Pumping Station
- Septic Tank
- Control Kiosk
- Change of Characteristic

MANHOLE FUNCTION

FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

SEWER SHAPE

CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		

SEWER MATERIAL

AC	Asbestos Cement
BR	Brick
PE	Polyethylene
RP	Reinforced Plastic Matrix
CO	Concrete
CSB	Concrete Segment Bolted
CSU	Concrete Segment Unbolted
CC	Concrete Box Culverted
PSC	Plastic / Steel Composite
GRC	Glass Reinforced Plastic
DI	Ductile Iron
PVC	Polyvinyl Chloride
CI	Cast Iron
SI	Spun Iron
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VC	Vitrified Clay
PP	Polypropylene
PF	Pitch Fibre
MAC	Masonry, Coursed
MAR	Masonry, Random
U	Unspecified

Address or Site Reference:

Heineken Manchester Denmark Road,

OS sheet Number: SJ8395NE
Scale: 1:1250 **Date:** 28/12/2018
Nodes: 173
Sheet: 4 of 4

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SEWER RECORDS

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The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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