

ECMWF: Proposed SW Drainage Network Car Park + Eastern Road Catchment				Date: 07/08/2025								
				Designed by:	Checked by:	Approved By:						
				COB	LJ	CHF						
Report Details: Type: Connections Summary Storm Phase: Catchment 4 (Car Park and Easten				Company: BDP								

S1.003	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SW.36	SW.37	66.508	65.297	0.113	8.661	0.6	0.38	13.0	OK
S1.004	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SW.37	SW.38	66.487	65.254	0.127	12.004	0.8	0.54	18.6	OK
S1.005	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SW.38	SW.39	66.409	65.060	0.133	13.160	0.8	0.55	19.0	OK
S3.013	Design Criteria FSR: 2 years: +0 %: 720 mins: Summer	Pipe	Cellular Storage	SW.31	66.931	65.737	0.300	142.106	0.2	0.1	6.5	Surch arged
S3.014	Design Criteria FSR: 2 years: +0 %: 180 mins: Winter	Pipe	SW.31	SW.32	66.864	65.980	0.054	99.251	0.9	0.17	6.1	Surch arged
S3.015	Design Criteria FSR: 2 years: +0 %: 120 mins: Winter	Pipe	SW.32	SW.43	66.830	64.902	0.092	63.846	0.6	0.08	6.1	OK
S18.000	Design Criteria FSR: 2 years: +0 %: 30 mins: Winter	Pipe	PP.8	SWMH3 7	66.791	66.034	0.148	3.415	2.1	0.03	2.8	OK
S18.001	Design Criteria FSR: 2 years: +0 %: 30 mins: Winter	Pipe	SWMH3 7	SW.31	66.805	65.876	0.150	3.099	0.2	0.04	2.8	Surch arged
S1.008	Design Criteria FSR: 2 years: +0 %: 30 mins: Winter	Pipe	SW.41	SW.43	66.235	64.906	0.172	23.810	0.7	0.68	23.5	OK
S1.009	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SW.43	BYPASS S	66.724	64.859	0.167	23.921	0.9	1.01	30.0	OK
S1.006	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SW.39	SW.40	66.331	64.998	0.145	14.416	0.7	0.58	20.1	OK
S1.007	Design Criteria FSR: 2 years: +0 %: 30 mins: Winter	Pipe	SW.40	SW.41	66.153	64.930	0.160	21.670	0.7	0.62	21.2	OK
S2.000	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SW.41 (1)	SW.41	66.011	65.544	0.048	1.690	0.5	0.1	3.4	OK
Pipe	Design Criteria FSR: 2 years: +0 %: 30 mins: Winter	Pipe	PP9	SW.24	66.897	66.078	0.150	2.880	1.6	0.04	2.3	OK

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S1.010	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	BYPAS S S	SW.44	66.373	64.803	0.172	23.816	0.9	0.83	30.4	OK
S1.010 (1)	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SW.44	Simple Junction	66.346	64.760	0.156	23.551	1.1	0.8	31.6	OK

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Design Criteria FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S12.000	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWMH2 5	SWMH2 6	66.963	66.027	0.225	3.101	1.1	0.1	7.3	OK
S12.001	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWMH2 6	SWMH2 7	66.917	66.027	0.225	2.986	0.5	0.13	8.7	Surcharged
S13.000	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWMH2 8	SWMH2 7	66.641	66.027	0.225	4.847	0.5	0.33	11.5	Surcharged
S12.002	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWMH2 7	SW.03	66.799	66.028	0.225	6.314	0.4	0.47	16.1	Surcharged
S14.000	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SW.01	SW.02	66.704	66.025	0.225	6.974	0.8	0.46	16.2	Surcharged
S14.001	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SW.02	SW.03	66.588	66.026	0.225	7.367	0.5	0.37	16.3	Surcharged
S11.001	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SW.26	SW.24	66.705	66.029	0.225	11.192	0.7	0.49	20.5	Surcharged
S12.003	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SW.03	SW.24	66.827	66.028	0.225	16.584	1.1	1.2	41.4	Surcharged
S3.011	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SW.29	SW.30	66.931	66.031	0.300	31.088	0.9	0.95	60.8	Surcharged
S15.001	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWMH3 3	SWMH3 4	66.777	66.015	0.225	0.128	0.2	0.04	1.2	Surcharged
S15.002	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWMH3 4	SWMH3 5	66.843	66.016	0.225	1.452	0.5	0.17	6.0	Surcharged

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S15.003	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWMH3 5	SW.30	66.953	66.023	0.225	1.519	0.6	0.21	7.3	Surcharged
S17.000	Design Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	PP6.1	SWMH3 5	66.953	66.059	0.150	0.754	2.0	0.01	1.8	OK
S3.001	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	SWMH1 2	SW.27	66.585	66.011	0.225	0.893	0.5	0.07	3.4	Surcharged
S3.000	Design Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	PP1	SWMH1 2	66.587	66.080	0.150	1.866	1.6	0.03	2.8	OK
S3.002	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	SW.27	SWMH1 4	66.629	66.011	0.225	0.164	0.3	0.06	2.3	Surcharged
S4.000	Design Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	PP2	SWMH1 4	66.662	66.080	0.150	2.914	2.2	0.03	3.1	OK
S3.003	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWMH1 4	SWMH1 5	66.669	66.039	0.225	1.634	0.4	0.09	3.5	Surcharged
S3.006	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SW.28	SWMH1 8	66.674	66.036	0.225	1.408	0.5	0.2	7.4	Surcharged
S3.007	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWMH1 8	SWMH1 9	66.729	66.035	0.225	0.847	0.5	0.19	7.3	Surcharged
S7.000	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	PP4.1	SWMH1 8	66.724	66.013	0.150	0.360	1.8	0.01	1.3	OK
S8.000	Design Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	PP4.2	SWMH1 9	66.744	66.082	0.150	4.775	2.5	0.03	4.1	OK
S3.008	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWMH1 9	SWMH2 0	66.742	66.035	0.225	2.311	0.4	0.21	8.0	Surcharged
S3.009	Design Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	SWMH2 0	SWMH2 1	66.856	66.081	0.225	7.395	0.4	0.24	8.8	Surcharged
S3.010	Design Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	SWMH2 1	SW.29	66.875	66.080	0.225	12.899	0.3	0.29	10.8	Surcharged

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S9.000	Design Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	PP5.1	SWMH2 0	66.858	66.080	0.150	1.881	0.1	0.01	2.0	OK
S10.000	Design Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	PP5.2	SWMH2 1	66.873	66.090	0.150	6.481	2.7	0.04	5.1	OK
S3.012	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SW.30	Cellular Storage	66.931	66.028	0.300	19.666	1.2	1.03	65.9	Surch arged
S3.004	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWMH1 5	SWMH1 6	66.680	66.037	0.225	1.142	0.5	0.14	5.4	Surch arged
S3.005	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SWMH1 6	SW.28	66.640	66.037	0.225	2.261	0.6	0.21	7.8	Surch arged
S6.000	Design Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	PP3.2	SWMH1 6	66.641	66.081	0.150	3.079	2.2	0.04	4.1	OK
S15.000	Design Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	PP7	SWMH3 3	66.778	66.024	0.150	0.572	1.1	0.04	2.0	OK
S16.000	Design Criteria FSR: 30 years: +0 %: 30 mins: Summer	Pipe	PP6.2	SWMH3 4	66.841	66.024	0.150	2.301	2.4	0.08	7.8	Surch arged
S5.000	Design Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	PP3.1	SWMH1 5	66.680	66.078	0.150	1.109	2.2	0.03	3.1	OK
S11.002	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SW.24	SW.29	66.943	66.030	0.300	28.491	0.9	0.88	56.1	Surch arged
S11.000	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	PP9	SW.26	66.631	66.104	0.150	3.683	0.9	0.1	4.9	OK
S1.000	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SW.33	SW.34	66.553	65.693	0.087	4.411	0.5	0.19	6.5	OK
S1.001	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SW.34	SW.35	66.725	65.643	0.123	9.405	0.7	0.47	16.3	OK
S1.002	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SW.35	SW.36	66.682	65.520	0.222	13.457	0.8	0.67	23.1	OK

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S1.003	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SW.36	SW.37	66.508	65.471	0.225	15.153	0.6	0.66	22.9	Surcharged
S1.004	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	SW.37	SW.38	66.487	65.378	0.225	19.365	0.9	0.97	33.4	Surcharged
S1.005	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SW.38	SW.39	66.409	65.315	0.225	23.900	0.7	0.86	29.8	Surcharged
S3.013	Design Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	Cellular Storage	SW.31	66.931	66.073	0.300	12.033	0.2	0.13	8.8	Surcharged
S3.014	Design Criteria FSR: 30 years: +0 %: 960 mins: Summer	Pipe	SW.31	SW.32	66.864	66.050	0.053	303.719	0.8	0.17	6.1	Surcharged
S3.015	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	SW.32	SW.43	66.830	64.993	0.225	6.586	0.6	0.09	6.7	OK
S18.000	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	PP.8	SWMH3 7	66.791	66.057	0.150	4.565	2.0	0.07	6.3	OK
S18.001	Design Criteria FSR: 30 years: +0 %: 30 mins: Summer	Pipe	SWMH3 7	SW.31	66.805	66.051	0.150	5.278	0.4	0.1	6.5	Surcharged
S1.008	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SW.41	SW.43	66.235	65.123	0.225	31.731	1.0	1.12	38.7	Surcharged
S1.009	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SW.43	BYPASS S	66.724	65.016	0.225	38.179	1.1	1.48	44.2	Surcharged
S1.006	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SW.39	SW.40	66.331	65.257	0.225	26.353	0.8	0.94	32.5	Surcharged
S1.007	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SW.40	SW.41	66.153	65.162	0.225	28.599	0.9	1.01	34.7	Surcharged
S2.000	Design Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	SW.41 (1)	SW.41	66.011	65.564	0.067	3.201	0.7	0.19	6.4	OK
Pipe	Design Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	PP9	SW.24	66.897	66.104	0.150	5.814	0.9	0.09	5.9	OK