

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



PP6.2

Type : Porous Paving

Dimensions

Exceedance Level (m)	66.763
Depth (m)	0.900
Base Level (m)	65.863
Paving Layer Depth (mm)	275
Membrane Percolation (m/hr)	10000.0
Porosity (%)	30
Length (m)	54.273
Long. Slope (1:X)	10000.00
Width (m)	4.267
Total Volume (m³)	44.093

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	200.0
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PP7

Type : Porous Paving

Dimensions

Exceedance Level (m)	66.789
Depth (m)	0.855
Base Level (m)	65.934
Paving Layer Depth (mm)	275
Membrane Percolation (m/hr)	10000.0
Porosity (%)	30
Length (m)	62.392
Long. Slope (1:X)	10000.00
Width (m)	5.076
Total Volume (m³)	55.875

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	200.0
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PP3.2

Type : Porous Paving

Dimensions

Exceedance Level (m)	66.631
Depth (m)	0.700
Base Level (m)	65.931
Paving Layer Depth (mm)	275
Membrane Percolation (m/hr)	10000.0
Porosity (%)	30
Length (m)	20.997
Long. Slope (1:X)	10000.00
Width (m)	3.450
Total Volume (m³)	9.495

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	200.0
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Cellular Storage

Type : Cellular Storage

Dimensions	
Exceedance Level (m)	66.904
Depth (m)	0.400
Base Level (m)	64.930
Number of Crates Long	10
Number of Crates Wide	8
Number of Crates High	1
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.45
Crate Height (m)	0.4
Total Volume (m³)	15.254

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Report Details: Type: Connections Storm Phase: Catchment 4 (Car Park and Eastern Road)		Company: BDP			

Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
S12.000	10.020	Pipe	50.000		0.6	225	66.963	65.838
S12.001	10.747	Pipe	57.777		0.6	225	66.917	65.638
S13.000	14.332	Pipe	225.000		0.6	225	66.641	65.516
S12.002	28.659	Pipe	225.658		0.6	225	66.799	65.452
S14.000	23.264	Pipe	217.425		0.6	225	66.704	65.579
S14.001	19.943	Pipe	135.666		0.6	225	66.588	65.472
S11.001	50.627	Pipe	150.230		0.6	225	66.705	65.585
S12.003	17.286	Pipe	225.000		0.6	225	66.827	65.325
S3.011	12.914	Pipe	300.000		0.6	300	66.931	65.090
S15.001	14.775	Pipe	225.000		0.6	225	66.777	65.479
S15.002	6.585	Pipe	225.000		0.6	225	66.843	65.413
S15.003	3.460	Pipe	225.000		0.6	225	66.953	65.384
S17.000	1.169	Pipe	2.215		0.6	150	66.953	65.987
S3.001	9.642	Pipe	116.170		0.6	225	66.585	65.575
S3.000	1.319	Pipe	4.396		0.6	150	66.587	65.950
S3.002	6.972	Pipe	190.000		0.6	225	66.629	65.492
S4.000	1.117	Pipe	2.307		0.6	150	66.662	66.014
S3.003	12.429	Pipe	190.000		0.6	225	66.669	65.455
S3.006	6.519	Pipe	190.000		0.6	225	66.674	65.331
S3.007	2.155	Pipe	190.000		0.6	225	66.729	65.297
S7.000	1.007	Pipe	1.897		0.6	150	66.724	65.903
S8.000	1.031	Pipe	1.804		0.6	150	66.744	65.935
S3.008	13.044	Pipe	190.000		0.6	225	66.742	65.286
S3.009	3.729	Pipe	190.000		0.6	225	66.856	65.217
S3.010	6.281	Pipe	196.282		0.6	225	66.875	65.197
S9.000	1.051	Pipe	1.390		0.6	150	66.858	65.940
S10.000	1.127	Pipe	1.706		0.6	150	66.873	65.978
S3.012	5.456	Pipe	300.000		0.6	300	66.931	65.047
S3.004	6.001	Pipe	190.000		0.6	225	66.680	65.390
S3.005	5.173	Pipe	190.000		0.6	225	66.640	65.358
S6.000	1.450	Pipe	2.912		0.6	150	66.641	65.931
S15.000	2.076	Pipe	10.015		0.6	150	66.778	65.934
S16.000	1.187	Pipe	3.164		0.6	150	66.841	65.863
S5.000	1.338	Pipe	2.690		0.6	150	66.680	65.962
S11.002	24.933	Pipe	300.000		0.6	300	66.943	65.173
S11.000	4.754	Pipe	12.677		0.6	150	66.631	66.035
S1.000	21.061	Pipe	224.054		0.6	225	66.553	65.628
S1.001	40.507	Pipe	225.000		0.6	225	66.725	65.534
S1.002	36.364	Pipe	224.514		0.6	225	66.682	65.354
S1.003	13.461	Pipe	224.349		0.6	225	66.508	65.192
S1.004	45.744	Pipe	225.000		0.6	225	66.487	65.132
S1.005	14.523	Pipe	224.499		0.6	225	66.409	64.929
S3.013	10.717	Pipe	278.156		0.6	300	66.931	64.930
S3.014	7.151	Pipe	216.993		0.6	225	66.864	64.891
S3.015	9.677	Pipe	51.652		0.6	225	66.830	64.858
S18.000	1.493	Pipe	3.649		0.6	150	66.791	65.995
S18.001	4.799	Pipe	6.903		0.6	150	66.805	65.586
S1.008	17.136	Pipe	225.000		0.6	225	66.235	64.747
S1.009	3.494	Pipe	0.000		0.6	225	66.724	64.671
S1.006	21.456	Pipe	225.000		0.6	225	66.331	64.864
S1.007	4.902	Pipe	225.000		0.6	225	66.153	64.769
S2.000	19.841	Pipe	225.000		0.6	225	66.011	65.495
Pipe	5.212	Pipe	7.341		0.6	150	66.897	66.033
S1.010	4.071	Pipe	198.853		0.6	225	66.373	64.620
S1.010 (1)	34.746	Pipe	174.142		0.6	225	66.346	64.600

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Report Details: Type: Connections Storm Phase: Catchment 4 (Car Park and Eastern Road)		Company: BDP			

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Part Family	Lock	Flow Restriction (L/s)	Culvert Type	Culvert Entrance
S12.000	66.917	65.638		All		(None)	(None)
S12.001	66.799	65.452		All		(None)	(None)
S13.000	66.799	65.452		All		(None)	(None)
S12.002	66.827	65.325		All		(None)	(None)
S14.000	66.588	65.472		All		(None)	(None)
S14.001	66.827	65.325		All		(None)	(None)
S11.001	66.943	65.248		All		(None)	(None)
S12.003	66.943	65.248		Levels		(None)	(None)
S3.011	66.931	65.047		All		(None)	(None)
S15.001	66.843	65.413		None		(None)	(None)
S15.002	66.953	65.384		None		(None)	(None)
S15.003	66.931	65.369		All		(None)	(None)
S17.000	66.953	65.459		None		(None)	(None)
S3.001	66.629	65.492		None		(None)	(None)
S3.000	66.585	65.650		None	0.0	(None)	(None)
S3.002	66.669	65.455		None		(None)	(None)
S4.000	66.669	65.530		None		(None)	(None)
S3.003	66.680	65.390		None		(None)	(None)
S3.006	66.729	65.297		All		(None)	(None)
S3.007	66.742	65.286		All		(None)	(None)
S7.000	66.729	65.372		None	0.0	(None)	(None)
S8.000	66.742	65.364		None	0.0	(None)	(None)
S3.008	66.856	65.217		All		(None)	(None)
S3.009	66.875	65.197		All		(None)	(None)
S3.010	66.931	65.165		All		(None)	(None)
S9.000	66.856	65.184		None	0.0	(None)	(None)
S10.000	66.875	65.317		All	0.0	(None)	(None)
S3.012	66.932	65.029		All		(None)	(None)
S3.004	66.640	65.358		None		(None)	(None)
S3.005	66.674	65.331		None		(None)	(None)
S6.000	66.640	65.433		None	0.0	(None)	(None)
S15.000	66.777	65.727		None		(None)	(None)
S16.000	66.843	65.488		None		(None)	(None)
S5.000	66.680	65.465		None		(None)	(None)
S11.002	66.931	65.090		All		(None)	(None)
S11.000	66.705	65.660		All	0.0	(None)	(None)
S1.000	66.725	65.534		None		(None)	(None)
S1.001	66.682	65.354		None		(None)	(None)
S1.002	66.508	65.192		None		(None)	(None)
S1.003	66.487	65.132		None		(None)	(None)
S1.004	66.409	64.929		None		(None)	(None)
S1.005	66.331	64.864		None		(None)	(None)
S3.013	66.864	64.891		All		(None)	(None)
S3.014	66.830	64.858		Levels	6.2	(None)	(None)
S3.015	66.724	64.671		None		(None)	(None)
S18.000	66.805	65.586		None	0.0	(None)	(None)
S18.001	66.864	64.891		None		(None)	(None)
S1.008	66.724	64.671		None		(None)	(None)
S1.009	66.373	64.671		Levels		(None)	(None)
S1.006	66.153	64.769		None		(None)	(None)
S1.007	66.235	64.747		None		(None)	(None)
S2.000	66.235	65.407		All		(None)	(None)
Pipe	66.943	65.323		Levels	0.0	(None)	(None)
S1.010	66.346	64.600		None		(None)	(None)
S1.010 (1)	66.297	64.400		None		(None)	(None)

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

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Base Flow	SW.33	1.0						
Catchment Area	SW.34		Time of Concentration	0.014	30	0	30	0.004
Catchment Area (1)	SW.01		Time of Concentration	0.019	95	0	95	0.018
EAR - Soft 1	SW.36		Time of Concentration	0.003	30	0	30	0.001
EAR - Soft 2	SW.37		Time of Concentration	0.008	30	0	30	0.002
EAR - Soft 3	SW.38		Time of Concentration	0.003	30	0	30	0.001
EAR - Soft 4	SW.38		Time of Concentration	0.005	30	0	30	0.002
EAR - Soft 5	SW.39		Time of Concentration	0.005	30	0	30	0.001
EAR - Soft 6	SW.40		Time of Concentration	0.002	30	0	30	0.001
HS 17	SW.26		Time of Concentration	0.016	95	0	95	0.015
HS.01	PP1		Time of Concentration	0.020	95	0	95	0.019
HS.02	SW.26		Time of Concentration	0.048	95	0	95	0.046
HS.03	PP2		Time of Concentration	0.030	95	0	95	0.028
HS.04	PP3.1		Time of Concentration	0.017	95	0	95	0.016
HS.05	PP3.2		Time of Concentration	0.025	95	0	95	0.024
HS.06	PP4.1		Time of Concentration	0.010	95	0	95	0.009
HS.07	PP4.2		Time of Concentration	0.067	95	0	95	0.064
HS.08	PP5.1		Time of Concentration	0.020	100	0	100	0.020
HS.09	PP5.2		Time of Concentration	0.056	95	0	95	0.054
HS.10	PP6.1		Time of Concentration	0.028	100	0	100	0.028
HS.11	PP6.2		Time of Concentration	0.071	95	0	95	0.067
HS.12	PP4.1		Time of Concentration	0.002	100	0	100	0.002
HS.13	PP7		Time of Concentration	0.031	100	0	100	0.031
HS.15	PP.8		Time of Concentration	0.038	100	0	100	0.038
HS.16	PP9		Time of Concentration	0.023	95	0	95	0.022
HS.17	SW.03		Time of Concentration	0.040	95	0	95	0.038
HS.18	PP9		Time of Concentration	0.041	100	0	100	0.041
HS.19	SW.02		Time of Concentration	0.012	95	0	95	0.011
HS.20	SWMH26		Time of Concentration	0.005	95	0	95	0.005
HS.21	SWMH28		Time of Concentration	0.039	95	0	95	0.037
HS.22	SWMH25		Time of Concentration	0.024	95	0	95	0.023
HS.23	SW.01		Time of Concentration	0.021	95	0	95	0.020
SA.01 - DA	SW.33		Time of Concentration	0.019	95	0	95	0.018