

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: Junctions Storm Phase: Catchment 4 (Car Park and Easten	Company: BDP		



Outlets			
Junction	Outlet Name	Outgoing Connection	Outlet Type
SWMH25	Outlet	S12.000	Free Discharge
SWMH26	Outlet	S12.001	Free Discharge
SWMH27	Outlet	S12.002	Free Discharge
SWMH28	Outlet	S13.000	Free Discharge
SW.03	Outlet	S12.003	Free Discharge
SW.26	Outlet	S11.001	Free Discharge
SW.01	Outlet	S14.000	Free Discharge
SW.02	Outlet	S14.001	Free Discharge
SW.31	Outlet	S3.014	Hydro-Brake®
	Invert Level (m)	64.891	
	Design Depth (m)	1.650	
	Design Flow (L/s)	6.2	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0107-6200-1650-6200	
SW.24	Outlet	S11.002	Free Discharge
SW.27	Outlet	S3.002	Free Discharge
SW.28	Outlet	S3.006	Free Discharge
SW.29	Outlet	S3.011	Free Discharge
SW.30	Outlet	S3.012	Free Discharge
SWMH33	Outlet	S15.001	Free Discharge
SWMH34	Outlet	S15.002	Free Discharge
SWMH35	Outlet	S15.003	Free Discharge
SWMH12	Outlet	S3.001	Free Discharge
SWMH14	Outlet	S3.003	Free Discharge
SWMH15	Outlet	S3.004	Free Discharge
SWMH18	Outlet	S3.007	Free Discharge
SWMH19	Outlet	S3.008	Free Discharge
SWMH20	Outlet	S3.009	Free Discharge
SWMH21	Outlet	S3.010	Free Discharge
SWMH37	Outlet	S18.001	Free Discharge
SWMH16	Outlet	S3.005	Free Discharge
SW.33	Outlet	S1.000	Free Discharge
SW.34	Outlet	S1.001	Free Discharge
SW.35	Outlet	S1.002	Free Discharge
SW.36	Outlet	S1.003	Free Discharge
SW.37	Outlet	S1.004	Free Discharge
SW.38	Outlet	S1.005	Free Discharge
SW.39	Outlet	S1.006	Free Discharge
SW.43	Outlet	S1.009	Free Discharge
SW.32	Outlet	S3.015	Free Discharge
SW.41	Outlet	S1.008	Free Discharge
BYPASS S	Outlet	S1.010	Free Discharge
SW.40	Outlet	S1.007	Free Discharge
SW.41 (1)	Outlet	S2.000	Free Discharge
SW.44	Outlet	S1.010 (1)	Free Discharge

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PP9

Type : Porous Paving

Dimensions

Exceedance Level (m)	66.628
Depth (m)	0.595
Base Level (m)	66.033
Paving Layer Depth (mm)	275
Membrane Percolation (m/hr)	100000.0
Porosity (%)	30
Length (m)	51.646
Long. Slope (1:X)	200.00
Width (m)	5.032
Total Volume (m³)	25.500

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)	300.0
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PP5.2

Type : Porous Paving

Dimensions

Exceedance Level (m)	66.872
Depth (m)	0.900
Base Level (m)	65.972
Paving Layer Depth (mm)	275
Membrane Percolation (m/hr)	10000.0
Porosity (%)	30
Length (m)	52.973
Long. Slope (1:X)	10000.00
Width (m)	3.413
Total Volume (m³)	34.553

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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PP1

Type : Porous Paving

Dimensions

Exceedance Level (m)	66.575
Depth (m)	0.625
Base Level (m)	65.950
Paving Layer Depth (mm)	275
Membrane Percolation (m/hr)	10000.0
Porosity (%)	30
Length (m)	17.449
Long. Slope (1:X)	10000.00
Width (m)	4.810
Total Volume (m³)	9.029

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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PP2

Type : Porous Paving

Dimensions

Exceedance Level (m)	66.634
Depth (m)	0.620
Base Level (m)	66.014
Paving Layer Depth (mm)	275
Membrane Percolation (m/hr)	10000.0
Porosity (%)	30
Length (m)	24.426
Long. Slope (1:X)	10000.00
Width (m)	8.459
Total Volume (m³)	21.688

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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PP3.1

Type : Porous Paving

Dimensions

Exceedance Level (m)	66.662
Depth (m)	0.700
Base Level (m)	65.962
Paving Layer Depth (mm)	275
Membrane Percolation (m/hr)	100000.0
Porosity (%)	30
Length (m)	21.148
Long. Slope (1:X)	10000.00
Width (m)	3.328
Total Volume (m³)	9.236

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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PP.8

Type : Porous Paving

Dimensions

Exceedance Level (m)	66.770
Depth (m)	0.775
Base Level (m)	65.995
Paving Layer Depth (mm)	275
Membrane Percolation (m/hr)	1000.0
Porosity (%)	30
Length (m)	37.706
Long. Slope (1:X)	200.00
Width (m)	5.000
Total Volume (m³)	28.746

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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PP4.1

Type : Porous Paving

Dimensions

Exceedance Level (m)	66.703
Depth (m)	0.800
Base Level (m)	65.903
Paving Layer Depth (mm)	275
Membrane Percolation (m/hr)	10000.0
Porosity (%)	30
Length (m)	23.569
Long. Slope (1:X)	10000.00
Width (m)	3.603
Total Volume (m³)	13.665

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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PP4.2

Type : Porous Paving

Dimensions

Exceedance Level (m)	66.735
Depth (m)	0.800
Base Level (m)	65.935
Paving Layer Depth (mm)	275
Membrane Percolation (m/hr)	10000.0
Porosity (%)	30
Length (m)	60.584
Long. Slope (1:X)	10000.00
Width (m)	4.406
Total Volume (m³)	42.794

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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PP5.1

Type : Porous Paving

Dimensions

Exceedance Level (m)	66.840
Depth (m)	0.900
Base Level (m)	65.940
Paving Layer Depth (mm)	275
Membrane Percolation (m/hr)	1000.0
Porosity (%)	30
Length (m)	53.189
Long. Slope (1:X)	10000.00
Width (m)	3.564
Total Volume (m³)	36.200

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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PP6.1

Type : Porous Paving

Dimensions

Exceedance Level (m)	66.887
Depth (m)	0.900
Base Level (m)	65.987
Paving Layer Depth (mm)	275
Membrane Percolation (m/hr)	10000.0
Porosity (%)	30
Length (m)	54.098
Long. Slope (1:X)	10000.00
Width (m)	4.415
Total Volume (m³)	45.079

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	100
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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