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Science Park Square Brighton East Sussex	Talbot Mill FEH proposed runoff perm courtyard	
Date 09/01/2019 File PROPOSED INITIAL ASSESS...	Designed by MN Checked by	
Innovyze	Source Control 2018.1	

Rainfall Details

Rainfall Model	FEH	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
FEH Rainfall Version	2013	Cv (Winter)	0.840
Site Location	GB 382720 397311	Shortest Storm (mins)	15
Data Type	Point	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.310

Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)
0 4	0.155	4 8	0.155

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Model Details

Storage is Online Cover Level (m) 3.000

Cellular Storage Structure

Invert Level (m) 1.000 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	89.6	89.6	1.201	0.0	146.9
1.200	89.6	146.9			

Hydro-Brake® Optimum Outflow Control

Unit Reference MD-SHE-0212-2400-1200-2400
Design Head (m) 1.200
Design Flow (l/s) 24.0
Flush-Flo™ Calculated
Objective Minimise upstream storage
Application Surface
Sump Available Yes
Diameter (mm) 212
Invert Level (m) 1.000
Minimum Outlet Pipe Diameter (mm) 225
Suggested Manhole Diameter (mm) 1500

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.200	24.0
Flush-Flo™	0.387	24.0
Kick-Flo®	0.841	20.3
Mean Flow over Head Range	-	20.4

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	7.2	1.200	24.0	3.000	37.2	7.000	56.1
0.200	20.6	1.400	25.8	3.500	40.1	7.500	58.0
0.300	23.7	1.600	27.5	4.000	42.8	8.000	59.9
0.400	24.0	1.800	29.1	4.500	45.3	8.500	61.6
0.500	23.7	2.000	30.6	5.000	47.7	9.000	63.4
0.600	23.3	2.200	32.1	5.500	49.9	9.500	65.1
0.800	21.2	2.400	33.4	6.000	52.1		
1.000	22.0	2.600	34.8	6.500	54.1		

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