From: Hayley Gibbs <HGibbs@ecearchitecture.com>
Sent: 12 January 2026 08:48:31 UTC+00:00
To: "Amanda Haslett" <amanda.haslett@adur-worthing.gov.uk>
Cc: "Stuart Eatock" <SEatock@ecearchitecture.com>
Subject: FW: AWDM/1209/25 - Greater Brighton Metropolitan College Littlehampton Road
Attachments: 03576-C-Calcs_P02.pdf

Good morning Amanda,

Please see below response from our Civil Engineer.

If this still does not answer all their queries, we suggest we set up a Teams Meeting to discuss, as per his suggestion below to bring this to a conclusion.

We look forward to hearing from you,

Kind regards,

Hayley Gibbs
Architectural Designer, BA (Hons) PgDip Arch

T 01903 248777

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From: Simon Baker <simon.baker@marbas.co.uk>
Sent: 09 January 2026 09:56
To: Barnaby Swann <barnaby.swann@marbas.co.uk>
Cc: Hayley Gibbs <HGibbs@ecearchitecture.com>
Subject: RE: AWDM/1209/25 - Greater Brighton Metropolitan College Littlehampton Road

Good Morning Hayley,

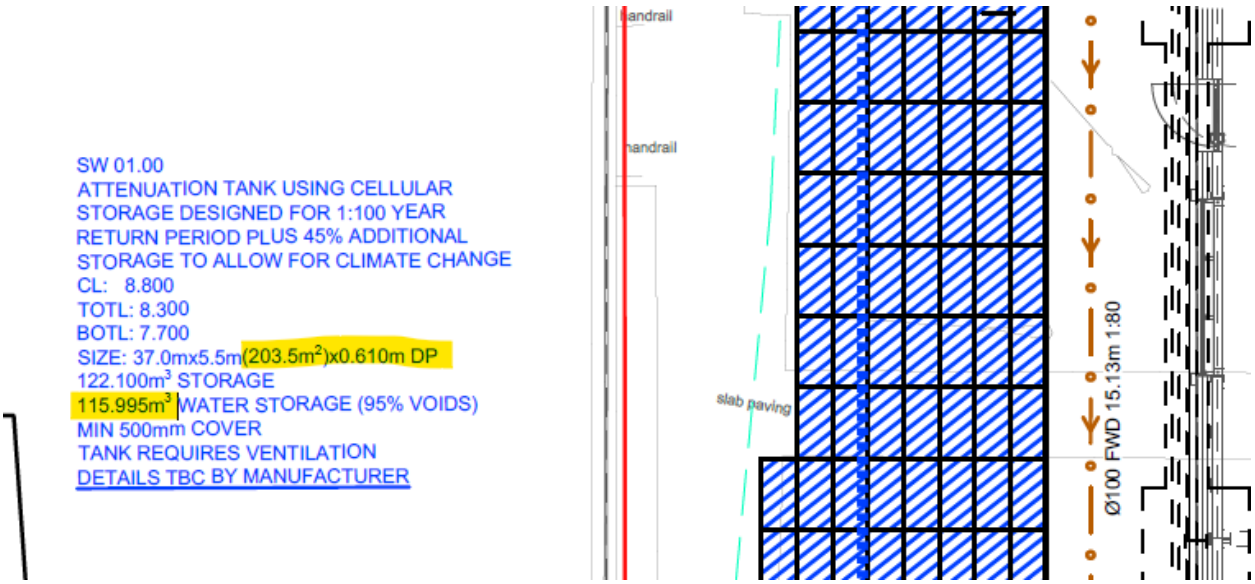
Hope you had a good Christmas and New Year.

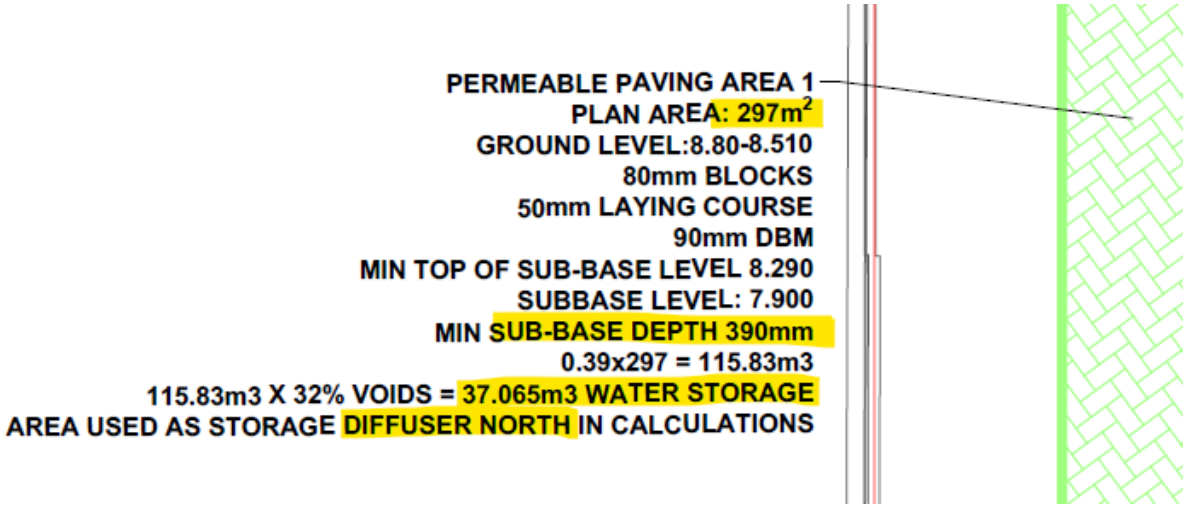
Our drainage design is in accordance with the drainage strategy that was submitted at planning. As the name suggests, the strategy report is just a strategy and not a detailed design.

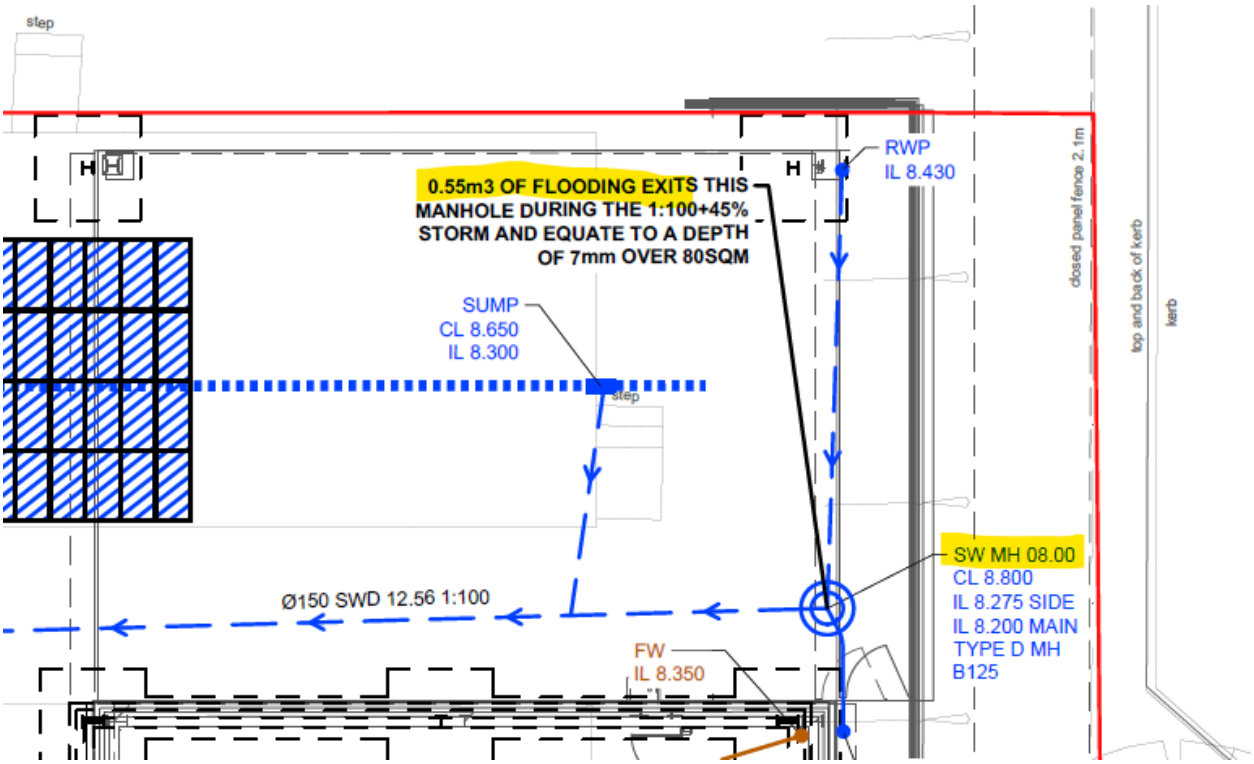
As part of our stage 4 process, we undercheck a detailed design on the proposed system adjusting the numbers based on the run off areas, and chosen manufacturers details. There will always be some volume differences in the detailed design when compared to the original strategy report.

Attached are the as-built calculations with screen shot of the relevant items that tie in with the drawings.

If WSP have any more queries then it may be easier to have a quick teams meeting.







Node ATT TANK Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	1.5	Invert Level (m)	7.700
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	203.5	0.0	0.610	203.5	0.0	0.611	0.0	0.0

Node DIFFUSER NORTH Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	7.900	Slope (1:X)	1000.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	0.390
Safety Factor	2.0	Width (m)	8.000	Inf Depth (m)	
Porosity	0.32	Length (m)	37.125		

297m²

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.14%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute summer	SW MH 01.00	1020	7.273	0.043	2.0	0.0076	0.0000	OK
480 minute winter	SW MH 02.00	464	8.243	0.693	3.8	0.8461	0.0000	FLOOD RISK
480 minute winter	SW MH 03.00	464	8.243	0.568	5.7	0.5980	0.0000	SURCHARGED
480 minute winter	SW MH 04.00	464	8.243	0.418	3.8	0.2807	0.0000	SURCHARGED
15 minute winter	SW MH 05.00	10	8.352	0.077	13.5	0.0692	0.0000	OK
15 minute winter	SW MH 06.00	10	8.281	0.131	47.5	0.3155	0.0000	OK
15 minute winter	SW MH 07.00	11	8.769	0.711	29.2	0.6047	0.0000	FLOOD RISK
15 minute winter	SW MH 08.00	11	8.800	0.600	14.9	0.5262	0.5410	FLOOD
2160 minute summer	EX SW MH	1020	7.240	0.040	2.0	0.0000	0.0000	OK
480 minute winter	ATT TANK	464	8.243	0.543	10.9	105.0574	0.0000	FLOOD RISK
480 minute winter	DIFFUSER NORTH	464	8.243	0.393	4.8	30.8220	0.0000	FLOOD RISK
480 minute winter	DIFFUSER SOUTH	464	8.244	0.394	0.1	0.0008	0.0000	FLOOD RISK

Kind regards

Simon Baker
Principal Civil Engineer

marbas

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