

1. Project & Site Details	Project / Site Name (including sub-catchment / stage / phase where appropriate)	British Museum - East Road building
	Address & post code	British Museum, Great Russell Street, Camden, London, WC1E 7JW
	OS Grid ref. (Easting, Northing)	E 530076
		N 181803
	LPA reference (if applicable)	2023/1848/P
	Brief description of proposed work	Demolition of existing building and two storey structures on East Road and erection of new two storey building, plus basement and associated works to provide plant & welfare accommodation
	Total site Area	380 m ²
	Total existing impervious area	380 m ²
	Total proposed impervious area	380 m ²
	Is the site in a surface water flood risk catchment (ref. local Surface Water Management Plan)?	No
	Existing drainage connection type and location	Combined sewer located
	Designer Name	Simon Baker
	Designer Position	Civil Engineer
Designer Company	MICHAEL BARCLAY PROJECTS LTD	

2. Proposed Discharge Arrangements	2a. Infiltration Feasibility		
	Superficial geology classification	Lynch Hill Gravel Member	
	Bedrock geology classification	London Clay Formation	
	Site infiltration rate	N/A	m/s
	Depth to groundwater level	5.5	m below ground level
	Is infiltration feasible?	No	
	2b. Drainage Hierarchy		
		<i>Feasible (Y/N)</i>	<i>Proposed (Y/N)</i>
	1 store rainwater for later use	N	N
	2 use infiltration techniques, such as porous surfaces in non-clay areas	N	N
	3 attenuate rainwater in ponds or open water features for gradual release	N	N
	4 attenuate rainwater by storing in tanks or sealed water features for gradual release	Y	Y
	5 discharge rainwater direct to a watercourse	N	N
	6 discharge rainwater to a surface water sewer/drain	N	N
	7 discharge rainwater to the combined sewer.	Y	Y
	2c. Proposed Discharge Details		
Proposed discharge location	Private on site manhole		
Has the owner/regulator of the discharge location been consulted?	No application made to Thames Water		

3a. Discharge Rates & Required Storage				
	Greenfield (GF) runoff rate (l/s)	Existing discharge rate (l/s)	Required storage for GF rate (m ³)	Proposed discharge rate (l/s)
Q _{bar}				
1 in 1	0.05	6	8.6	1.5
1 in 30	0.014	15	17.9	1.5
1 in 100	0.2	19	17.8	1.5
1 in 100 + CC			27.3	1.5
Climate change allowance used		40%		
3b. Principal Method of Flow Control		Orifice Flow Control		
3c. Proposed SuDS Measures				
	Catchment area (m ²)	Plan area (m ²)	Storage vol. (m ³)	
Rainwater harvesting	0		0	
Infiltration systems	0		0	
Green roofs	0	0	0	
Blue roofs	0	0	0	
Filter strips	0	0	0	
Filter drains	0	0	0	
Bioretention / tree pits	0	0	0	
Pervious pavements	0	0	0	
Swales	0	0	0	
Basins/ponds	0	0	0	
Attenuation tanks	370		16	
Total	370	0	16	

4a. Discharge & Drainage Strategy		Page/section of drainage report
Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results		London Clay, infiltration not feasible -
Drainage hierarchy (2b)		Combined Sewer -
Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location		MBP 0500_P03 & 0501_P03 &
Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations		British Museum Drainage Calcs
Proposed SuDS measures & specifications (3b)		Brown Roof and Attenuation Tank
4b. Other Supporting Details		Page/section of drainage report
Detailed Development Layout		
Detailed drainage design drawings, including exceedance flow routes		
Detailed landscaping plans		
Maintenance strategy		MBP Maintenance Plan
Demonstration of how the proposed SuDS measures improve:		
a) water quality of the runoff?		Brown Roof for water quality
b) biodiversity?		Brown roof for biodiversity
c) amenity?		None