Camden

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1. Project & Site Details

Project / Site Name (including sub-catchment / stage / phase where appropriate)	140 Camden Street
Address & post code	140-146 Camden Street, London, NW1 9PF
OS Grid ref. (Easting, Northing)	E 529085
	N 184134
LPA reference (if applicable)	2017/1407/P
Brief description of proposed work	demolition of existing buildings, excavation of extension to existing single storey basement and erection of 1 – 8 storey building comprising 2,026sqm of commercial floorspace with associated landscaping
Total site Area	1,520 m^2
Total existing impervious area	1,520 m^2
Total proposed impervious area	1,520 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	There is an existing Fleet sewer running beneath the site
Designer Name	Mihajlo Gojkovic
Designer Position	Senior Civil Engineer
Designer Company	Patrick Parsons

2. Proposed Discharge Arrangements

2a. Infiltration Feasibility

Superficial geology classification	Made ground and river terrace deposits
Bedrock geology classification	The solid geology at the site is London Clay, Lambeth Group Clay
Site infiltration rate	n/a m/s
Depth to groundwater level	4 m below ground level
Is infiltration feasible?	No

2b. Drainage Hierarchy

	Feasible (Y/N)	*Proposed (Y/N)*
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	N	N
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	Surface water discharging into Fleet trunk sewer attenuated to 2l/s
Has the owner/regulator of the discharge location been consulted?	Yes

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3. Drainage Strategy

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)*
Qbar	0.23			
1 in 1	13.9	13.9	13.5	2
1 in 30	18	18	41	2
1 in 100	34.2	34.2	57.5	2
1 in 100 + CC			84	2
Climate change allowance used		40%		
3b. Principal Method of Flow Control		Blue roof outlet 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	1520	1307	83
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	0		0
Total	**1520**	**1307**	**83**

4. Supporting Information

4a. Discharge & Drainage Strategy	*Page/section of drainage report*
Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results	Table 5.4 Summary of Permeability Results from Geotechnical Interpretative Report by Arup 10.02.17
Drainage hierarchy (2b)	London Borough of Camden SFRA FRA 2014 - Page 62
Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location	Page 1 of DS6070740 - Pre-planning enquiry
Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations	Drainage technical summary - page 1
Proposed SuDS measures & specifications (3b)	Blue roof designed by blue roof specialist ABG (ABG Ref. 11654)
4b. Other Supporting Details	*Page/section of drainage report*
Detailed Development Layout	CSP-CLA-ZZ-B1-DR-A-4899
Detailed drainage design drawings, including exceedance flow routes	CSP-PPL-ZZ-XX-DR-C-0210
Detailed landscaping plans	N/A
Maintenance strategy	Drainage Maintenance report
Demonstration of how the proposed SuDS measures improve:	
a) water quality of the runoff?	Filtration and settlement
b) biodiversity?	n/a
c) amenity?	n/a