Camden

GREATER**LONDON**AUTHORITY

LoDEG

1. Project & Site Details

Project / Site Name (including sub-catchment / stage / phase where appropriate)	22 Lancaster Grove, Camden
Address & post code	22 Lancaster Grove, Camden
OS Grid ref. (Easting, Northing)	E W 0.16783
	N 51.54576
LPA reference (if applicable)	
Brief description of proposed work	Basement extension
Total site Area	600 m^2
Total existing impervious area	600 m^2
Total proposed impervious area	600 m^2
Is the site in a surface water flood risk catchment (ref. local Surface Water Management Plan)?	Yes
Existing drainage connection type and location	To combined sewer within carriageway
Designer Name	Jon Burgess
Designer Position	Principal Infrastruction Engineer
Designer Company	Hull Raiser Ltd

2. Proposed Discharge Arrangements

2a. Infiltration Feasibility

Superficial geology classification	Clay
Bedrock geology classification	Clay
Site infiltration rate	0.00001 m/s
Depth to groundwater level	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	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	Thames Water combined sewer network
Has the owner/regulator of the discharge location been consulted?	Existing connection without restriction

Camden

GREATERLONDONAUTHORITY

LoDEG

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	0.3			
1 in 1	0.2	20.5		5
1 in 30	0.6	36.3		5
1 in 100	0.8	43.3		5
1 in 100 + CC			39	5
Climate change allowance used		40%		
3b. Principal Method of Flow Control		Hydrobrake		

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	0		37.05
Total	**0**	**0**	**37.05**

4. Supporting Information

4a. Discharge & Drainage Strategy	*Page/section of drainage report*
Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results	Clay
Drainage hierarchy (2b)	Attenuation to combind sewer
Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location	
Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations	Included
Proposed SuDS measures & specifications (3b)	Attenuation tanks
4b. Other Supporting Details	*Page/section of drainage report*
Detailed Development Layout	
Detailed drainage design drawings, including exceedance flow routes	Included
Detailed landscaping plans	
Maintenance strategy	Included
Demonstration of how the proposed SuDS measures improve:	
a) water quality of the runoff?	Some silts removed by traps
b) biodiversity?	Reduces storm impact
c) amenity?	Thus lessons flood risk to neighbour