Project / Site Name (including sub-catchment / stage / phase where appropriate)	81 Belsize Park Gardens	
Address & post code	81 Belsize Park Gardens, NW3 4NJ	
OS Grid ref (Easting Northing)	E:527395	
os ond ren. (Lasting, Northing)	N:184639	
LPA reference (if applicable)		
Brief description of proposed work	A refurbishment of an existing three-story college building in Belsize Park to convert the current use Class E (Gym/Leisure centre) to F1 (Education - Secondary School).	
Total site Area	723m2	
Total existing impervious area	708.8m2	
Total proposed impervious area	692m2	
Is the site in a surface water flood risk catchment (ref. local Surface Water Management Plan)?	Νο	
Existing drainage connection type and location	The site currently does not have a surface drainage network. The surface water currently discharges into the foul drainage. This has been picked up during the drainage CCTV survey.	
Designer Name	Brandon Davis	
Designer Position	Engineer	
Designer Company	MHA Structural Design	

2a. Infiltration Feasibility			
Superficial geology classification	Unproductive		
Bedrock geology classification	I	London Clay Formation	
Site infiltration rate	n/a	m/s	
Depth to groundwater level	n/a	m below gr	ound level
Is infiltration feasible?		No	
2b. Drainage Hierarchy			-
		Feasible (Y/N)	Proposed (Y/N)
1 store rainwater for later use		Ν	N
2 use infiltration techniques, such as porous surfaces in non-clay areas		Ν	N
3 attenuate rainwater in ponds or open water features for gradual release		Ν	N
4 attenuate rainwater by storing in tanks or sealed water features for gradual release		Ν	N
5 discharge rainwater direct to a watercourse		Ν	N
6 discharge rainwater to a surface water sewer/drain		Ν	N
7 discharge rainwater to the combined sewer.		Y	Y
2c. Proposed Discharge Details			
Proposed discharge location	Existing Combined Drainage		
Has the owner/regulator of the discharge location been consulted?	ТВС		

	Greenfield (GF) runoff rate (l/s)	Existing discharge rate (I/s)	Required storage for GF rate (m <sup>3</sup> )	Proposed discharge rate (l/s)
Qbar	0.43			
1 in 1	0.37	6.8	-	3.8
1 in 30	1	14.1	-	8.9
1 in 100	1.38	14.5	-	10.7
1 in 100 + CC			-	13.2
Climate change all	owance used	40%		
3b. Principal Method of Flow Control		Free Discharge. Please refer to FRA report for further clarification.		
3c. Proposed SuDS	Measures			
		Catchment area (m <sup>2</sup> )	Plan area (m <sup>2</sup> )	Storage vol. (m <sup>3</sup> )
Rainwater harvesti	ng	0		
Infiltration systems		0		
Green roofs		231.63	231.63	2.
Blue roofs		0	0	
Filter strips		0	0	
Filter drains		0	0	
Bioretention / tree pits		0	0	
Pervious pavements		22	17.2	2.
Swales		0	0	
Basins/ponds		0	0	
Attenuation tanks		0		
				-

4a. Discharge & Drainage Strategy	Page/section of drainage report		
Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results	1.4		
Drainage hierarchy (2b)	pg.10 - Please refer to the report for further clarification.		
Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location	pg.10 - The connection will be into the existing drainage network. Discharge consent will need to be agreed with approving body by the contractor due to the requirements for provision of RAMS.		
Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations	11		
Proposed SuDS measures & specifications (3b)	10		
4b. Other Supporting Details	Page/section of drainage report		
Detailed Development Layout	Appendix A		
Detailed drainage design drawings, including exceedance flow routes	Appendix C		
Detailed landscaping plans	Appendix A		
Maintenance strategy	13		
Demonstration of how the proposed SuDS measures improve:	page.11-12 & Appendix C		
a) water quality of the runoff?	By implementing Green roofs, porous pavement and rainwater garden		
b) biodiversity?	By providing above ground SuDS features wherever possible and reducing the proposed impervious area.		
c) amenity?	N/A		