

1. Project & Site Details	Project / Site Name (including sub-catchment / stage / phase where appropriate)	NEW CITY COURT
	Address & post code	4-26 St Thomas Street, London, SE1 9RS
	OS Grid ref. (Easting, Northing)	E 532720 N 180155
	LPA reference (if applicable)	
	Brief description of proposed work	The project comprises the construction of a 26-storey building (with mezzanine and two basement levels), adjacent to King's Head Yard, after demolishing the existing New City Court office building.
	Total site Area	2,980 m ²
	Total existing impervious area	2,980 m ²
	Total proposed impervious area	2,980 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	Outfalls to Kings Head Yard and St Thomas Street - to be verified by CCTV
	Designer Name	Dariusz Nowacki
	Designer Position	Associate Civil Engineer
Designer Company	AKT II	

2. Proposed Discharge Arrangements	2a. Infiltration Feasibility		
	Superficial geology classification	Made ground, Alluvium, Kempton Park Gravels, London Clay	
	Bedrock geology classification	Lambeth Group (Unproductive Stratum)	
	Site infiltration rate	m/s	
	Depth to groundwater level	5 m below ground level	
	Is infiltration feasible?	No	
	2b. Drainage Hierarchy		
		Feasible (Y/N)	Proposed (Y/N)
	1 store rainwater for later use	Y	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	Outfalls to Kings H.Yard and St Thomas St.	
Has the owner/regulator of the discharge location been consulted?	No		

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)
	Q _{bar}	1.09			
	1 in 1	0.93	30.9	50	3.49
	1 in 30	2.62	64.9	100	3.49
	1 in 100	3.49	84.4	130	3.49
	1 in 100 + CC			190	3.49
	Climate change allowance used		40%		
	3b. Principal Method of Flow Control		Blue roof systems		
	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	2290	1830	157	
	Filter strips	0	0	0	
	Filter drains	0	0	0	
Bioretention / tree pits	0	0	0		
Pervious pavements	365	365	23		
Swales	0	0	0		
Basins/ponds	0	0	0		
Attenuation tanks	325		10		
Total	2980	2195	190		

4. Supporting Information	4a. Discharge & Drainage Strategy	Page/section of drainage report
	Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results	N/A - proposed structure takes up the full site area, therefore it is not possible to infiltrate
	Drainage hierarchy (2b)	Page 7 / Section 4.3
	Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location	Page 21 / Appendix 2 Section 4.3 / Page 8
	Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations	Page 4 / Section 4
	Proposed SuDS measures & specifications (3b)	Pages 17 to 19 / Appendix 1
	4b. Other Supporting Details	Page/section of drainage report
	Detailed Development Layout	Page 5 / Section 3
	Detailed drainage design drawings, including exceedance flow routes	Detailed design not available Strategy plans contained in Appendix 1
	Detailed landscaping plans	Strategy contained in Appendix 1
	Maintenance strategy	Page 14 / Section 8
	Demonstration of how the proposed SuDS measures improve:	
	a) water quality of the runoff?	N/A - discharge to combined sewer
	b) biodiversity?	Green areas at Levels 25,26 and GF
	c) amenity?	Green areas at Levels 25,26 and GF