This document forms part of the Sustainable Construction Checklist SPD. This document **must** be filled out as part of the planning application for the following developments: all residential development providing **one or more new residential units (including conversions leading to one or more new units)**, and all other forms of development providing **100sqm or more of non-residential floor space**. Developments including new non-residential development of less than 100sqm floor space, extensions less than 100sqm, and other conversions are strongly encouraged to comply with this checklist. Where further information is requested, please either fill in the relevant section, or refer to the document where this information may be found in detail, e.g. Flood Risk Assessment or similar. **Further guidance** on completing the Checklist may be found in the Justification and Guidance section of this SPD.

Property Name (if relevant):	St Catherine's School	Application No. (if known):	
Address (include. postcode)	Cross Deep, Twickenham, TW1 4QJ		
Completed by:	Tim Ronalds Architects		
For Non-Residential		For Residential	
Size of development (m2)	483 Gross External Area (320 additional GEA created)	Number of dwellings N/A	
1 MINIMUM COMPLIA	NCE (RESIDENTIAL AND NON-RESIDENTIAL)		
Energy Assessment	sment been submitted that demonstrates the expected energy and	d earbon diavide emissions saving from energy efficiency and	TRUE
	asures, including the feasibility of CHP/CCHP and community her		INOL
Carbon Dioxide emissions re			
	rbon dioxide emissions reduction against a Building Regulations F Praft London Plan Policy 9.2.5 require a 35% onsite reduction in C		36% (above 2021) %
What is the percentar	e reduction from efficiency measures alone		13% (above 2021)%
Policy LP 22 C. and L	oraft London Plan Policy 9.2.6 require a 10% onsite reduction in C		10/0 (000/0 2021)
beyond Building Reg	ulations 2013 from efficiency measures for residential and 15% fo	r non-residential.	
Percentage of total s	te CO2 emissions saved through renewable energy installation?		26% (above 2021)%
	What is the total remaining carbon to be offset <u>n/a</u> Tonn Policy LP 22 B. and Draft London Plan Policy 9.2.4 require Major developments to achieve Zero Carbon after offsetting.		
			FALSE
-	ons going to be offset through offset fund payment in accordance	with current guidelines issued for the cost per tonne of CO2?	FALSE
What is the total pred The London Plan sets	cted cost of offset? this as £95/tonne per year over 30 years, this should be updated	l based on As Build calculations.	£
1A MINIMUM POLICY C	OMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBIS	SHMENT)	
	Please check the Guidance Section of	this SPD for the policy requirements	
Environmental Rating of dev Non-Residential new-build (10			
BREEAM Level	Excellent	Have you attached a pre-assessment to support this?	
Excellent required under Policy Extensions and conversions for	r residential dwellings		
BREEAM Domestic R Excellent required under Polic		Have you attached a pre-assessment to support this?	
Extensions and conversions fo BREEAM Level	r non-residential buildings Please Select	Have you attached a pre-assessment to support this?	
Excellent required under Polic			
Score awarded for Er BREEAM:	Good = 0 , Very Good = 4, Excellent = 8 , Outstanding = 16		Subtotal 8
1B MINIMUM POLICY C	OMPLIANCE (RESIDENTIAL)		
Water Usage			Score
Internal water usage a	after gray/rainwater systems limited to 105 litres person per day. (ations using the water efficiency calculator for new dwellings have	Excluding an allowance 5 litres per person per day for external water	1
	new dwellings under Policy LP22 A 2 1051/p/d required under Dra		/
			Subtotal 0

	RGY USE AND POLLUTION ed for Cooling	Score
	How does the development incorporate cooling measures? Tick all that apply:	
	Energy efficient design incorporating specific heat demand to less than or equal to 15 kWh/sqm	6
	Reduce heat entering a building through providing/improving insulation and living roofs and walls	2
	Reduce heat entering a building through shading	3
	Exposed thermal mass and high ceilings	4
	Passive ventilation	3
	Mechanical ventilation with heat recovery	1
	•	0
	Active cooling systems, i.e. Air Conditioning Unit See Draft London Plan SI4	0
	See Drait London Plan Si4	
2 Hea	It Generation	
	How have the heating and cooling systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy SI3) Tick all heating and	
	cooling systems that will be used in the development:	Score
	Connection to existing heating or cooling networks powered by renewable energy	6
	Connection to existing heating or cooling networks powered by gas or electricity	5
	Site wide CHP network powered by renewable energy	4
	Site wide CHP network powered by gas	3
	Communal heating and cooling powered by renewable energy	2
	Communal heating and cooling powered by refewable energy	1
		0
	Individual heating and cooling	U
· · ·	See Draft London Plan SI3	
s Poll	lution: Air, Noise and Light	2
	Does the development plan to implement reduction strategies for dust emissions from construction sites?	2
	Does the development plan to include a biomass boiler?	
	If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary	
	information. If the proposed boiler is of a qualifying size, you may need to complete the information request form found on	
	the Richmond website.	
	Has an air quality impact assessment been provided	
	If yes, has 'Emissions Neutral' been achieved	1
	If yes, have occupants of new development been protected from existing pollution	1
	If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present?	-1
	see Policy LP 10	
	Please tick only one option below	0
	Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site?	3
	Has the development taken care to not create any new noise generation/transmission issues in its intended operation?	1
	see Policy LP 10	
	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3
	see Policy LP 10	3
	Have you attached a Lighting Pollution Report?	
		Subtotal
ease (give any additional relevant comments to the Energy Use and Pollution Section below	
	Connection to a CHP network or other existing network isn't a viable option for this project. An air source heat pump and photo-voltaic panels will be used for renewable energy	gy.
TRAN	NSPORT	
	NSPORT vision for the safe efficient and sustainable movement of people and goods	
1 Pro		
1 Prov	vision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies?	
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4	BIODIVERSITY	
4.1 Mir	nimising the threat to biodiversity from new buildings, lighting, hard surfacing and people	
a.	Does your development involve the loss of an ecological feature or habitat, including a loss of garden or other green space? (Indicate if yes) -2
	If so, please state how much in sqm?	sqm
b.	Does your development involve the removal of any tree(s)? (Indicate if yes)	
	If so, has a tree report been provided in support of your application? (Indicate if yes)	
C.	Does your development plan to add (and not remove) any tree(s) on site? (Indicate if yes)	
d.	Please indicate which features and/or habitats that your development will incorporate to improve on site biodiversity:	
	Pond, reedbed or extensive native planting 6 Area provided:	sqm
	An extensive green roof 5 Area provided:	
	An intensive green roof 4 Area provided:	sqm
	Garden space 4 Area provided:	
	Additional native and/or wildlife friendly planting to peripheral areas 3 Area provided	30 sqm
	Additional planting to peripheral areas 2 Area provided	3 sqm
	A living wall 2 Area provided	20 sqm
	Bat boxes 0.5	
	Bird boxes 0.5	
	Swift boxes 0.5	
	Other 0.5	
e.	Does your development use at least 70% of available roof plate as green/brown roof	1
	Policy LP 17 requires 70%	
		Subtotal 17.5
	e give any additional relevant comments to the Biodiversity Section below	
We are	re unable to make 70% of the roof plate green roof because much of the main roof is taken up by solar panels. The lower roof will be a green ro	oof. The site is quite constrained and there isn't
	space for a pond or reedbed, but trees, planting and a green wall will be added.	
5	FLOODING AND DRAINAGE	
-	ting the risks of flooding and other impacts of climate change in the borough	
a.	Is your site located in a high flood risk zone (Zone 3)? (Indicate if yes)	-2
	Have you submitted a Flood Risk Assessment? (Indicate if yes)	
b.	Which of the following measures of the drainage hierarchy are incorporated onto your site? (tick all that apply)	
	Store rainwater for later use	5
	Use of infiltration techniques such as porous surfacing materials to allow drainage on-site	3
	Attenuate rainwater in ponds or open water features	4
	Store rainwater in tanks for gradual release to a watercourse	3
	Discharge rainwater directly to watercourse	2
	Discharge rainwater to surface water drain	1
	Discharge rainwater to combined sewer	0
	Have you submitted a Drainage Statement (Indicate if yes)	
	See Policy LP 21 and Draft London Plan SL 13	
C.	Please give the change in area of permeable surfacing which will result from your development proposal:	<u>33</u> sqm
	Please provide details of the permeable surfacing below please represent a loss in permeable	
-		Subtotal 3
	e give any additional relevant comments to the Flooding and Drainage Section below	much a first of the start hand stuffs size with her
	ne permeable areas will be planting beds. There will also be an extensive green roof, which isn't included in the 33 sqm permeable area. All rai	
dire	acted to existing soakaways. This is a relatively sustainable approach, but achieves a low score here (3/18). (We would have achieved a higher	r score if some of the rainwater is discharged
	directly to a watercourse or surface water drain, even though this would be less sustainable.)	
6	IMPROVING RESOURCE EFFICIENCY	
	educe waste generated and amount disposed of by landfill though increasing level of re-use and recycling	
a.	Will demolition be required on your site prior to construction? [Points will only be awarded if 10% or greater of demolition waste is reused/re	cvcled] 1
α.	The demonstrate of your one provide on your one provide demonstration will only be awarded in 10% of greater of demonstration wasters reused/re	
	If so, what percentage of demolition waste will be reused in the new development?	40 %
	a co, mar porcontago or domonaon naoro nin bo rodoba in tro non dovolopmont:	
	What percentage of demolition waste will be recycled?	40 %
b.	Does your site have any contaminated land?	1
	Have you submitted an assessment of the site contamination?	2
	Are plans in place to remediate the contamination?	- 2
	Have you submitted a remediation plan?	2 1
	Are plans in place to include composting on site?	1
	The plans in place to include compositing on site ?	1
C.	Will a waste management plan and facilities be in place in line with Policy LP24	Yes
υ.	The a mass management plan and racillies be in place in interwith rolley LF24	103
6 2 Pa	educing levels of water waste	
	Will the following measures of water conservation be incorporated into the development? (Please tick all that apply):	
a.	Fitting of water efficient taps, shower heads etc	1
	Use of water efficient A or B rated appliances	1
	Rainwater harvesting for internal use	1
	Greywater systems	↔ ∕
	Fit a water meter	++ 1
	ו וג מ שמנכו וווכוכו	1
		Subtotal 4

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7	ACCESSIBILITY	
7.1	Ensure flexible adaptable and long-term use of structures	
a.	If the development is residential, will it meet the requirements of the nationally described space standard for internal space and layout?	1
	If the standards are not met, in the space below, please provide details of the functionality of the internal space and layout	
	Not applicable	
AND		
b.	If the development is residential, will it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'?	2
	If this is not met, in the space below, please provide details of any accessibility measures included in the development.	
	Not applicable	
	For major residential developments, are 10% or more of the units in the development to Building Regulation Requirement M4 (3) 'wheelchair user dwellings'?	1
OR		
C.	If the development is non-residential, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45	2
	Please provide details of the accessibility measures specified in the Local Plan that will be included in the development	
	The proposals will provide social and community infrastructure in	
	accordance with LP28, as local groups and schools will be invited	
	to use the facilities. The	
	School has a Travel Plan achieving Gold accreditation under the	
	TFL Stars scheme, and high levels of walking and cycling will be	
	maintained for pupils and staff. This is consistent with LP30.	
	Policy LP45 is not relevant as there will be no change in pupil or	
	staff numbers, and no change to the parking provision is required.	
	The proposals comply with LP1, but as the site is a School, it does need to be gated.	
	does need to be gated.	

Subtotal 2

TOTAL 64.5

Please give any additional relevant comments to the Design Standards and Accessibility Section below
The new building will be fully accessible and a lift will be installed to serve all floors, in accordance with Approved Document M. See the Design and Access Statement for further information.

(Non-Residential and domestic refurb)

Residential new-build

Score	Rating	Significance
84 or more	A+	Project strives to achieve highest standard in energy efficient sustainable development
75-83	А	Makes a major contribution towards achieving sustainable development in Richmond
56-74	В	Helps to significantly improve the Borough's stock of sustainable developments
40-55	С	Minimal effort to increase sustainability beyond general compliance
39 or less	FAIL	Does not comply with SPD Policy

LBRUT Sustainable Construction Checklist- Scoring Matrix for New Construction

Score	Rating	Significance	
85 or more	A++	Project strives to achieve highest standard in energy efficient sustainable development	
68-84	A+	Project strives to achieve higher standard in energy efficient sustainable development	
59-67	А	Makes a major contribution towards achieving sustainable development in Richmond	
39-58	В	Helps to significantly improve the Borough's stock of sustainable developments	
24-38	С	Minimal effort to increase sustainability beyond general compliance	
23 or less	FAIL	Does not comply with SPD Policy	

Authorisation:

I herewith declare that I have filled in this form to the best of my knowledge

Pamele fell Date 29-11-23 Signature