

TECHNICAL NOTE

Date: 2nd November 2022

File Ref: AK/VL/P20-2140/04TN Rev A

Subject: Sustainability Checklist – Supporting Statement TN

1.0 INTRODUCTION

1.1 This Technical Note has been prepared to support the Sustainability Checklist prepared for the proposed new hall extension to the existing Hampton Pre-prep School.

2.0 SUSTAINABILITY CHECKLIST

- 2.1 The Sustainability Checklist prepared for the site shows a score of 51.5, which falls under the rating C of the scoring table.
- 2.2 This rating reflects the fact that the majority of the development comprises an existing school building, where the reduction of energy demand for space heating below 15kWh/m2 is unachievable. The existing building will not undergo a deep renovation at this time due to time-constraints, posed by the operation of the school building and the possible improvement works on the existing building being limited to school holidays. Some less intrusive improvement measures will be incorporated into the building (loft insulation, installation of draft excluders, replacement of all inefficient light bulbs with LED luminaires, TRVs fitted to radiators, where possible).
- 2.3 An alternative checklist has been prepared covering only the hall extension. This extension will be constructed to meet and exceed the requirements of the current Building Regulations Part L (2021), maximising energy efficiency of the development and utilising low and zero carbon technologies (ASHP and PVs). The application of the proposed energy efficient design elements helps the extension achieve carbon emission reductions of 180%. The Sustainability Checklist score for the hall extension reaches 57.5 helping to significantly improve the borough's stock of sustainable development.

- 2.4 A BREEAM Pre-assessment has not been prepared for the development as, according to the Local Plan Policy LP22, it is only required for new non-residential buildings. Extensions to non-residential buildings are not covered in the planning policy and, therefore, it is concluded that the pre-assessment is not needed for this development.
- 2.5 The Checklists appended to this Technical Note present a robust scoring of the development taking all site constraints into consideration.

3.0 SUMMARY

- 3.1 The London Borough of Richmond-upon-Thames Planning Policy LP22 requirements are met for the proposed development with regards to resource efficient design.
- 3.2 The Sustainability Checklists appended to this Technical Note demonstrate how the design will holistically incorporate sustainable principles into the full range of sustainability aspects covered by the local planning documents relating to energy, climate change, water, pollution, sustainable construction processes/materials & recycling, land use & ecology and sustainable transport.

Note By: Alicja Kreglewska, MSc, OCDEA, DEA, NDEA

Approved By: Alex Giles, Bsc (Hons)

Appendices:

A Sustainability Checklist – Whole development

B Sustainability Checklist – Hall Extension only

APPENDICES

APPENDIX A

LBRUT Sustainable Construction Checklist - June 2020

01/11/2022

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):	Hampton Pre-Prep Extension 2022 - WHOLE SCHEME	Application No. (if known):		
Address (include. postcode)	41-43 Wensleydale Road, Hampton			
Completed by:				
	Alex Giles and Alicja Kreglewska, Create Consulting Engineers			
For Non-Residential		For Residential		
Size of development (m2)	752.5	Number of dwellings		
A MINIMUM COMPLIA	NOT (DECIDENTIAL AND NON DECIDENTIAL)			
1 MINIMUM COMPLIA	NCE (RESIDENTIAL AND NON-RESIDENTIAL)			
Energy Assessment				
	sment been submitted that demonstrates the expected energy and carbon dioxide e		TRUE	
renewable energy me	asures, including the feasibility of CHP/CCHP and community heating systems? If y	es, please select TRUE.		
Carbon Dioxide emissions re	eduction			
	rbon dioxide emissions reduction against a Building Regulations Part L (2013) base	eline	3.05 %	
Policy LP 22 B. and D	Praft London Plan Policy 9.2.5 $$ require a 35% onsite reduction in CO $_2$ emissions be	yond Building Regulations 2013.		
What is the percentage	us raduation from officional massuras along		0.13 %	
	ge reduction from efficiency measures alone Oraft London Plan Policy 9.2.6 require a 10% onsite reduction in CO2 emissions		0.13	
	ulations 2013 from efficiency measures for residential and 15% for non-residential.			
, ,	·			
Percentage of total s	te CO2 emissions saved through renewable energy installation?		2.92 %	
What is the total rema	aining carbon to be offset		Tonne	
	raft London Plan Policy 9.2.4 require Major developments to achieve Zero Carbon a	after offsetting.		
			541.05	
Are remaining emission	ons going to be offset through offset fund payment in accordance with current guide	lines issued for the cost per tonne of CO2?	FALSE	
What is the total pred	icted cost of offset?		95 £	
The London Plan sets	this as £95/tonne per year over 30 years, this should be updated based on As Buil	ld calculations.		
1A MINIMUM POLICY C	OMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT)			
	Please check the Guidance Section of this SPD for the p	olicy requirements		
Environmental Bating of dov	· · ·	oney requirements		
Environmental Rating of dev Non-Residential new-build (10				
BREEAM Level	Please Select	Have you attached a pre-assessment to support this?		FALSE
Excellent required under Polic				
Extensions and conversions for BREEAM Domestic R		Have you attached a pre-assessment to support this?		FALSE
Excellent required under Polic		That's you allastica a pro assessment to support this.		171202
Extensions and conversions for	- J			
BREEAM Level Excellent required under Police	Please Select	Have you attached a pre-assessment to support this?		FALSE
Excellent required under 1 one	y Li 22			
Score awarded for En			Subtotal 0	
BREEAM:	Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16			
1B MINIMUM POLICY C	OMPLIANCE (RESIDENTIAL)			
			Score	
Water Usage	after gray/rainwater systems limited to 105 litres person per day. (Excluding an allow	vance 5 litres per person per day for external water		
consumption). Calcula	ations using the water efficiency calculator for new dwellings have been submitted.		1	Please Select:
110l/p/d Required for	new dwellings under Policy LP22 A 2 105l/p/d required under Draft London Plan Po	olicy SI5		
			Subtotal 0	

2. ENERGY US	SE AND POLLUTION		
2.1 Need for 0	Cooling	Score	
a. How o	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	FALSE
	Reduce heat entering a building through providing/improving insulation and living roofs and walls	2	TRUE
	Reduce heat entering a building through shading	3	TRUE
	Exposed thermal mass and high ceilings	4	TRUE
	Passive ventilation	3	TRUE
	Mechanical ventilation with heat recovery	1	TRUE
	Active cooling systems, i.e. Air Conditioning Unit	0	FALSE
See D	Draft London Plan SI4		
2.2 Heat Gene			
	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		
coolin	ng systems that will be used in the development:	Score	
	Connection to existing heating or cooling networks powered by renewable energy	6	FALSE
	Connection to existing heating or cooling networks powered by gas or electricity	5	FALSE
	Site wide CHP network powered by renewable energy	4	FALSE
	Site wide CHP network powered by gas	3	FALSE
	Communal heating and cooling powered by renewable energy	2	FALSE
	Communal heating and cooling powered by gas or electricity	1	FALSE
0 5	Individual heating and cooling	0	TRUE
	Oraft London Plan SI3		
	Air, Noise and Light	0	TDUE
a. Does	the development plan to implement reduction strategies for dust emissions from construction sites?	2	TRUE
b. Does	the development plan to include a biomass boiler?		FALSE
	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.		
c. Has a	an air quality impact assessment been provided		FALSE
o. Hao a	If yes, has 'Emissions Neutral' been achieved	1	FALSE
	If yes, have occupants of new development been protected from existing pollution	1	FALSE
	If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present?	-1	TRUE
see P	Policy LP 10	-1	INUE
5557			
d. Please	e tick only one option below		
	Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site?	3	TRUE
	Has the development taken care to not create any new noise generation/transmission issues in its intended operation?	1	TRUE
see P	Policy LP 10		-
e. Has th	he development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3	TRUE
	olicy LP 10	•	INOL
	you attached a Lighting Pollution Report?	-	
		Subtatal 0	ज
Please give an	ny additional relevant comments to the Energy Use and Pollution Section below	Subtotal 2	<u>.u</u>
	been recommended to mitigate noise generation for the proposed development, please refer to the pre-prep Acoustic Report for further infomation. The proposal decreases slightly the noise impact from inde	oor activities on the	
ivieasures nave t	neen recommended to mitigate noise generation for the proposed development, please refer to the pre-prep Acoustic Report for further information. The proposal decreases slightly the noise impact from industrial neighbouring receptors.	our activities on the	
The proposal has	theen assessed against the latest version of Part L (2021) and the requirements relating to fabric and systems efficiencies included in the revised Approved Document have been applied to the development	A highly optimized	

The proposal has been assessed against the latest version of Part L (2021) and the requirements relating to fabric and systems efficiencies included in the revised Approved Document have been applied to the development. A highly optimised energy strategy based on passive design, building fabric performance and building services systems and controls as well as installation of ASHP and PV system will allow the scheme to achieve an improvement over the baseline scenario of over 100% for the new part of the development and over 3% site-wide. Please refer to the Energy Statement for further information. The proposed new hall extension will score 27 points under this section if assessed separately (please refer to an alternative checklist prepared for the hall extension).

BREEAM is not required for extensions to non-residential buildings. Planning Policy LP22 states that: New non-residential buildings over 100sqm will be required to meet BREEAM 'Excellent' standard. The proposed extension is not a stand-alone building and as such cannot be treated as new development.

3. 1	RANSPORT		
3.1	Provision for the safe efficient and sustainable movement of people and goods		
a.	Does your development provide opportunities for occupants to use innovative travel technologies?		FALSE
Ple	ase explain:		
		Score	
	Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to		
b.	operate satisfactorily in the future expectation of all vehicles being electrically powered?	2	FALSE
C.	For major developments ONLY: Has a Transport Assessment been produced for your development based on TfL's Best Practice Guidance?	_	
	If you have provided a Transport Assessment as part of your planning application, please tick here and move to Section 3 of this Checklist.	5	FALSE
	See policy LP44	_	
d.	For smaller developments ONLY: Have you provided a Transport Statement?	5	TRUE
_	Decreased and development and ideas and attended (Chandrad and a province marks are not out in the Councilla Device Chandrada Lacal Disp Annuality 2)	2	FALCE
e.	Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3)		FALSE
	If so, for how many bicycles? Is this shown on the site plans?		FALSE
	See Local Plan Appendix 3		FALSE
f.	Will the development create or improve links with local and wider transport networks? If yes, please provide details.	2	FALSE
١.	will the development deate of improve links with local and wider transport networks? If yes, please provide details.	2	FALSE
		Subtotal 5	
DIA	acc give any additional relevant comments to the Transport Section below	Subtotal	
FIE	ase give any additional relevant comments to the Transport Section below		
	The proposed development will generate an additional 200 as m of florences because the development proposed will not result in any increase in public staff numbers or	ear parking and	

The proposed development will generate an additional 200 sq m of floorspace, however the development proposal will not result in any increase in pupils, staff numbers or car parking and therefore there is no such increase in vehicle or other operational transport movement. There is no car parking provision. Please refer to the Transport Statement for further details.

A.1 Minimising 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) b. Does your development involve the removal of any tree(s)? (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 An extensive green roof An intensive green roof An intensive green roof Additional native and/or wildlife friendly planting to peripheral areas Additional planting to peripheral areas A living wall A living wall B at boxes Bird boxes Other Other A supported A supported A rea provided: A re
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If so, has a tree report been provided in support of your application? (Indicate if yes) Does your development plan to add (and not remove) any tree(s) on site? (Indicate if yes) Does your development plan to add (and not remove) any tree(s) on site? (Indicate if yes) Does your development plan to add (and not remove) any tree(s) on site? (Indicate if yes) Please indicate which features and/or habitats that your development will incorporate to improve on site biodiversity: Pond, reedbed or extensive native planting A rea provided: An extensive green roof An intensive green roof A rea provided: Garden space A diditional native and/or wildlife friendly planting to peripheral areas A rea provided: A diving wall A living wall A living wall B at boxes B ind boxes Bird boxes Swift boxes O.5 FALSE
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Bat boxes 0.5 Bird boxes 0.5 TRUE Swift boxes 0.5 FALSE
Bird boxes 0.5 Swift boxes 0.5 FALSE
Swift boxes 0.5
Other 0.5
e. Does your development use at least 70% of available roof plate as green/brown roof
Policy LP 17 requires 70%
Subtotal 14.5
Please give any additional relevant comments to the Biodiversity Section below
The tree survey included seven trees, two hedges, five areas of
shrub planting and the findings of the Arboricultural Assessment conclude that the proposal will not require the removal of any trees. Please refer to the Arboricultural Assessment for further
information
Green roofs under the PVs will be considered, pending the confirmation of the modular build designer.

1. Milegaring the risks of flooding and other impacts of climates clange in the borough a is your allowant to live the following measures of the damage in the process of read of the process of the damage in the process of the damage of t		5 FLOODING AND DRAINAGE	
a. Is your site located in a high flood risk zone (Zone 37) (Indicate if yee) Have you submitted a Flood Risk Assessment? (Indicate if yee) b. Which of the following measures of the drainage hierarchy are incorporated onto your sile? (lick all that apply) Superindran armanate in foliate the superindran armanate in post or sample in terms of a flat of flat and a flat of the superindran armanate in post of community or superindran armanate in post of perindran flat disciple to evaluations or superindran armanate in post of perindran flat disciple to evaluations or superindran armanate in post of perindran flat disciple to evaluations or superindran armanate in post of perindran flat disciple to evaluations or superindran armanate in post of perindran flat disciple to evaluations or superindran armanate in post of perindran flat disciple to evaluations or superindran armanate in post of perindran flat disciple to evaluation are superindran armanate in post of perindran flat disciple to evaluation are superindran armanate in post of perindran flat superindran are superindran are superindran are superindran armanate in post of perindran flat superindran are superindran are superindran armanate in post of perindran flat superindran are surfaced to superindran are superindran are superindran are superindran are superindran are superindran are surfaced to superindran are surfaced to superindran are superindran are surfaced to sur	5.1 I	Mitigating the risks of flooding and other impacts of climate change in the borough	
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7	ACCESSIBILITY					
7.1	Ensure flexible adap	table and long	-term use of structures			
a.	If the development is		ill it meet the requirements of the nationally described space standard for internal space and layout?		1	Please Select:
		If the standar	ds are not met, in the space below, please provide details of the functionality of the internal space and layout			
AND	If the development ide	. recidential w	ill it most Building Degulation Deguirement MA (2) (secondible and adentable duallings)?		2	Diago Cologó
b.	ii the development is		ill it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'? et, in the space below, please provide details of any accessibility measures included in the development.		2	Please Select:
		11 1113 13 1101 11	ist, in the space below, please provide details of any accessibility measures included in the development.			
		For major res	idential developments, are 10% or more of the units in the development to Building Regulation Requirement		1	Please Select:
			chair user dwellings'?			
OR						
C.	If the development is	non-resident	al, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45		2	TRUE
		Please provid	e details of the accessibility measures specified in the Local Plan that will be included in the development			
			The development is located within close proxito a train station, bus stops, convenience sho			
					Subtotal 2	
Please	give any additional relev	vant comments	to the Design Standards and Accessibility Section below			
I RDIIT Su	etainable Construction	n Chacklist- S	coring Matrix for New Construction (Non-Residential and domestic refurb)		TOTAL 51.5	
LDKU1 3u	Score	Rating	coring Matrix for New Construction (Non-Residential and domestic refurb) Significance		TOTAL 51.5	
	84 or more	A+	Project strives to achieve highest standard in energy efficient sustainable development			
	75-83	A	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 Su	stainable Construction	n Checklist- Se	coring Matrix for New Construction Residential new-build			
	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	A	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			
Authorisat	tion:					
		lled in this form	to the best of my knowledge			
			to the best of my knowledge Signature_	01/1: Date	1/2022	
			Signature _	Date		

APPENDIX B

LBRUT Sustainable Construction Checklist - June 2020

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.

Has an energy assessment been submitted that demonstrates the expected energy and carbon dioxide emissions saving from energy efficiency and renewable energy measures, including the feasibility of CHP/CCHP and community heating systems? If yes, please select TRUE. Carbon Dioxide emissions reduction What is the not sic carbon dioxide emissions reduction against a Building Regulations Part L (2013) baseline Policy LP 22 B. and Draft Landon Plan Policy 9.2 5. require a 39% onsite reduction in CO ₂ emissions beyond Building Regulations 2013. What is the percentage reduction from efficiency measures alone Policy LP 22 C. and Draft Landon Plan Policy 9.2.5 require a 10% onsite reduction in CO ₂ emissions beyond Building Regulations 2013 from efficiency measures review of 15% for non-residential. Percentage of total site CO ₂ emissions saved through renewable energy installation? What is the total remaining carbon to be offset Policy LP 22 B. and Draft Landon Plan Policy 9.2.4 require Major developments to achieve Zero Carbon after offsetting. Are remaining emissions going to be offset through offset fund payment in accordance with current guidelines issued for the cost per tonne of CO ₂ ? FALSE What is the total predicted cost of offset? The Landon Plan sets this as £95 from per year over 30 years, this should be updated based on As Build calculations. 1A MININUM POLICY COMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT) Please Select Have you attached a pre-assessment to support this? Environmental Rating of development: PALSE Please Select Have you attached a pre-assessment to support this? FALSE Excellent required under Policy LP 2.2 Score awarded for Environmental Rating: REEAM Lavel Please Select Have you attached a pre-assessment to support this? FALSE Subtosion and conversions for non-residential dwellings REEAM Lavel Pressor of conversions for non-residential dwellings REEAM Lavel Please Select Have you attached a pre-assessment to support this? FALSE Subtosion and con	Property Name (if relevant):	Hampton Pre-Prep Extension 2022 - EXTENSION ONLY	Application No. (if known):			
Revision Residential For Residential Revision Residential Resi	Address (include. postcode)	41-43 Wensleydale Road, Hampton				
For Non-Residential Size of development (m2) 1272 Residential Size of development (m2) 1272 Residential Number of dwellings Residential Number of the service of the s						
Numbur of development (m2)		Alex Glies and Alicja Kreglewska, Create Consulting Engineers				
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Water Usage Internal water usage after gray/rainwater systems limited to 105 litres person per day. (Excluding an allowance 5 litres per person per day for external water		ter gray/rainwater systems limited to 105 litres person per day. (Excluding an allowa	nce 5 litres per person per day for external water			
consumption). Calculations using the water efficiency calculator for new dwellings have been submitted.	consumption). Calculati	ions using the water efficiency calculator for new dwellings have been submitted.		1	Please Select:	
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Troupha Required for new awarings under Folicy Er 22 A 2 100mpha required under Drait Edition France Original Property States				Subtotal 0		

	ERGY USE AND POLLUTION	_	
2.1 N	eed for Cooling	Score	
a.	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	TRUE
	Reduce heat entering a building through providing/improving insulation and living roofs and walls	2	TRUE
	Reduce heat entering a building through shading	3	TRUE
	Exposed thermal mass and high ceilings	4	TRUE
	Passive ventilation	3	TRUE
	Mechanical ventilation with heat recovery	1	TRUE
	Active cooling systems, i.e. Air Conditioning Unit	0	FALSE
	See Draft London Plan SI4		
2.2 He	eat Generation		
b.	How have the heating and cooling systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy \$13) 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	FALSE
	Connection to existing heating or cooling networks powered by gas or electricity	5	FALSE
	Site wide CHP network powered by renewable energy	4	FALSE
	Site wide CHP network powered by gas	3	FALSE
	Communal heating and cooling powered by renewable energy	2	FALSE
	Communal heating and cooling powered by gas or electricity	0	FALSE TRUE
	Individual heating and cooling See Draft London Plan SI3	U	IRUE
2 3 Da	ollution: Air, Noise and Light		
a.	Does the development plan to implement reduction strategies for dust emissions from construction sites?	2	TRUE
b.	Does the development plan to include a biomass boiler?		FALSE
	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.		
C.	Has an air quality impact assessment been provided		FALSE
	If yes, has 'Emissions Neutral' been achieved	1	FALSE
	If yes, have occupants of new development been protected from existing pollution	1	FALSE
	If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present?	-1	TRUE
	see Policy LP 10		
d.	Please tick only one option below		
	Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site?	3	TRUE
	Has the development taken care to not create any new noise generation/transmission issues in its intended operation?	1	TRUE
	see Policy LP 10		
e.	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? see Policy LP 10	3	TRUE
f.	Have you attached a Lighting Pollution Report?	-	
		Subtotal	27
Dlease	e give any additional relevant comments to the Energy Use and Pollution Section below	Jubiolai	<u></u>
rieasi	s give any additional relevant comments to the Energy Use and Poliction Section Below		

Measures have been recommended to mitigate noise generation for the proposed development, please refer to the pre-prep Acoustic Report for further infomation.

The proposal has been assessed against the latest version of Part L (2021) and the requirements relating to fabric and systems efficiencies included in the revised Approved Document have been applied to the development. The improvement over the Be Lean scenario are lower as the development has been assessed against the latest version of Part L 2021. A highly optimised energy strategy based on passive design, building fabric performance and building services systems and controls as well as installation of ASHP and 8 kWp PV system will allow the scheme to achieve an improvement vertex for the baseline scenario of over 100% for the new part of the development and over 3% site-wide. Please refer to the Energy Statement for further infomation.

BREEAM is not required for extensions to non-residential buildings. Planning Policy LP22 states that: New non-residential buildings over 100sqm will be required to meet BREEAM 'Excellent' standard. The proposed extension is not a stand-alone building and as such cannot be treated as new development.

3. TRA	NSPORT		
3.1 Pro	ovision for the safe efficient and sustainable movement of people and goods		
a.	Does your development provide opportunities for occupants to use innovative travel technologies?		FALSE
u.	2000 Juli del consensation de		171202
Please	explain:		
Ticasc	- схрын.		
		Score	
		Score	
h	Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate	2	FALSE
b.	satisfactorily in the future expectation of all vehicles being electrically powered?	2	FALSE
	5 - 1 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2		
C.	For major developments ONLY: Has a Transport Assessment been produced for your development based on TfL's Best Practice Guidance?	_	ENIOE
	If you have provided a Transport Assessment as part of your planning application, please tick here and move to Section 3 of this Checklist.	5	FALSE
	See policy LP44	_	
d.	For smaller developments ONLY: Have you provided a Transport Statement?	5	TRUE
e.	Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3)	2	FALSE
	If so, for how many bicycles?		
	Is this shown on the site plans?		FALSE
	See Local Plan Appendix 3		
f.	Will the development create or improve links with local and wider transport networks? If yes, please provide details.	2	FALSE
		Subtotal 5	
Please	give any additional relevant comments to the Transport Section below		

The proposed development will generate an additional 200 sq m of floorspace, however the development proposal will not result in any increase in pupils, staff numbers or car parking and therefore there is no such increase in vehicle or other operational transport movement. There is no car parking provision. Please refer to the Transport Statement for further details.

4	BIODIVERSITY					
4.1 M	inimising the threat to biodiversity from new buildings, lighting, hard surfacing and people	е				
a.	Does your development involve the loss of an ecological feature or habitat, including a loss of		green space? (Indicate if yes)	-	2	FALSE
	If so, please state how much in sqm?				sqm	
					_	
b.	Does your development involve the removal of any tree(s)? (Indicate if yes)					FALSE
	If so, has a tree report been provided in support of your application?	(Indicate if yes)				TRUE
•	Does your development plan to add (and not remove) any tree(s) on site? (Indicate if yes)					FALSE
C.	boes your development plan to add (and not remove) any tree(s) on site: (indicate if yes)					FALSE
d.	Please indicate which features and/or habitats that your development will incorporate to impro	ove on site biodiv	ersity:			
	Pond, reedbed or extensive native planting	6	Area provided:		sqm	FALSE
	An extensive green roof	5	Area provided:	6	0 sqm	TRUE
	An intensive green roof	4	Area provided:		sqm	FALSE
	Garden space	4	Area provided:		sqm	TRUE
	Additional native and/or wildlife friendly planting to peripheral areas	3	Area provided:		sqm	TRUE
	Additional planting to peripheral areas	2	Area provided:		sqm	TRUE
	A living wall	2	Area provided:		sqm	FALSE
	Bat boxes	0.5				FALSE
	Bird boxes	0.5				TRUE
	Swift boxes	0.5				FALSE
	Other	0.5				FALSE
e.	Does your development use at least 70% of available roof plate as green/brown roof				1	FALSE
	Policy LP 17 requires 70%					
				Subtota	al 14.5	
Pleas	e give any additional relevant comments to the Biodiversity Section below					

The tree survey included seven trees, two hedges, five areas of shrub planting and the findings of the Arboricultural Assessment conclude that the proposal will not require the removal of any trees. Please refer to the Arboricultural Assessment for further infomation.

5 EL CODINC AND DRAINACE		
5 FLOODING AND DRAINAGE .1 Mitigating 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 FALSE	
Have you submitted a Flood Risk Assessment? (Indicate if yes)	FALSE	
That's job dubilities at 1000 thou 1000 of the 11000	TALOL	
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 TRUE	
Use of infiltration techniques such as porous surfacing materials to allow drainage on-site	3 FALSE	
Attenuate rainwater in ponds or open water features	4 FALSE	
Store rainwater in tanks for gradual release to a watercourse	3 FALSE	
Discharge rainwater directly to watercourse	2 FALSE	
Discharge rainwater to surface water drain	1 TRUE	
Discharge rainwater to combined sewer	0 FALSE	
Have you submitted a Drainage Statement (Indicate if yes)	FALSE	
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:	sqm	
Please provide details of the permeable surfacing below please represent a loss in permeable are		
	Subtotal 6	
Please give any additional relevant comments to the Flooding and Drainage Section below		
Site is locate in low flood risk zone as identified on the government website. Rainwater butts for garden irrigation will be provided. Further SUDS technique	niques will be explored when the design	
Site is locate in low flood risk zone as identified on the government website. Rainwater butts for garden irrigation will be provided. Further SUDS techniques develops.	miques will be explored when the design	
αενείομο.		
6 IMPROVING RESOURCE EFFICIENCY		
6.1 Reduce 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/recycle	d] 1 TRUE	
		_
If so, what percentage of demolition waste will be reused in the new development?	%	
What percentage of demolition waste will be recycled?	%	
h Doos your site have any conteminated land?	1 FALSE	
 Does your site have any contaminated land? Have you submitted an assessment of the site contamination? 	7 FALSE 2 FALSE	
Are plans in place to remediate the contamination?	2 FALSE	
Have you submitted a remediation plan?	1 FALSE	
Are plans in place to include composting on site?	1 FALSE	
c. Will a waste management plan and facilities be in place in line with Policy LP24	yes	
c. Will a waste management plan and facilities be in place in line with 1 only Li 24	yes	
6.2 Reducing levels of water waste		
a. Will the following measures of water conservation be incorporated into the development? (Please tick all that apply):		
Fitting of water efficient taps, shower heads etc	1 TRUE	
Use of water efficient A or B rated appliances	1 TRUE	
Rainwater harvesting for internal use	4 FALSE	
Greywater systems Greywater systems	4 FALSE	
Fit a water meter	1 TRUE	
	<u></u>	
	Subtotal 3	
Please give any additional relevant comments to the Improving Resource Efficiency Section below		

7	ACCESSIBILITY			
7.1	Ensure flexible adap	table and long	term use of structures	
a.	If the development is		Il it meet the requirements of the nationally described space standard for internal space and layout?	Please Select:
		if the standar	ds are not met, in the space below, please provide details of the functionality of the internal space and layout	
AND b.	If the development is	rocidontial wi	l it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'?	Please Select:
D.	ii the development is		net, in the space below, please provide details of any accessibility measures included in the development.	Please Select.
			, space 2019.11, produce provide dotains or any accessment, made and make an area dotains in the dotains and access provide access provide and access provide and access provide and access provide access p	
		For major res	idential developments, are 10% or more of the units in the development to Building Regulation Requirement	Please Select:
			chair user dwellings'?	
OR				
C.	If the development is	non-residenti	al, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45	2 TRUE
		Please provid	e details of the accessibility measures specified in the Local Plan that will be included in the development	
		Flease provid	e details of the accessibility measures specified in the Local Filan that will be included in the development	
			The development is located within close prox	
			to a train station, bus stops, convenience sh	nops and pharmacy.
				Subtotal 2
Please	e give any additional relev	ant comments	to the Design Standards and Accessibility Section below	Subtotal 2
	<u> </u>			
I BDIIT G	uetainable Construction	n Chacklist Sc	oring Matrix for New Construction (Non-Residential and domestic refurb)	TOTAL 57.5
LDINOT SI	Score	Rating	oring Matrix for New Construction (Non-Residential and domestic refurb) Significance	107AL 37.3
	84 or more	A+	Project strives to achieve highest standard in energy efficient sustainable development	
	75-83	Α	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	C	Minimal effort to increase sustainability beyond general compliance	
	39 or less	FAIL	Does not comply with SPD Policy	
I RPIIT Si	ustainable Construction	n Chacklist- Sc	oring Matrix for New Construction Residential new-build	
LDI(O) O	Score	1	Significance	1
		Rating		
	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	A	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	C	Minimal effort to increase sustainability beyond general compliance	
	23 or less	FAIL	Does not comply with SPD Policy	
Authorisa				
I herev	with declare that I have fi	led in this form	to the best of my knowledge Signature	01/11/2022
				01/11/2022
			Signature	Date