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1 EXECUTIVE SUMMARY

1.1 Overview

- 1.1.1 Right of Light Consulting has been commissioned by Moreland Residential (UK) to undertake a daylight and sunlight assessment of the proposed development at New Residential Units at Sion Court, Sion Road, Twickenham TW1 3DD.
- 1.1.2 The assessment is based on the various numerical tests laid down in the Building Research Establishment (BRE) guide 'Site Layout Planning for Daylight and Sunlight: a guide to good practice, 3rd Edition' by P J Littlefair 2022.
- 1.1.3 The aim of the assessment is to consider the impact of the development on the light receivable by the neighbouring properties at:
 - 2 to 36 Sion Court
 - 9, 11, 13 & 25 Ferry Road
 - 19 & 21 Lebanon Park
- 1.1.4 The images in Appendix 1 identify the windows we have assessed. Appendix 2 gives the numerical results of the various daylight and sunlight tests. Overshadowing to gardens and opens spaces data and contour drawings are provided in Appendix 3.
- 1.1.5 All neighbouring windows pass the relevant BRE diffuse daylight and direct sunlight tests. All neighbouring amenity areas also pass the BRE overshadowing to gardens and open spaces test.
- 1.1.6 In summary, the numerical results in this assessment demonstrate that the proposed development will have a low impact on the light receivable by its neighbouring properties. In our opinion, the proposed development sufficiently safeguards the daylight and sunlight amenity of the neighbouring properties.

2 INFORMATION SOURCES

2.1 Drawings

2.1.1 This report is based on the following drawings:

Tal Arc Ltd.		
SC-D1-01	Land Registry Map, Block Plan Existing Ground Floor Plan	Rev -
SC-PP3-08	Proposed Sections A & B Materials	Rev -
SC-PP1-01	Existing Ground Floor Plan	Rev -
SC-PP1-02	Existing First Floor Plan	Rev -
SC-PP1-03	Existing Elevations	Rev -
SC-PP1-04	Existing Street Elevation Existing South Elevation/Section	Rev -
SC-PP4-00	Site Map, Block Plan	Rev -
SC-PP4-05	Proposed Ground Floor Plan	Rev -
SC-PP4-06	Proposed Roof Plan Proposed First Floor Plan	Rev -
SC-PP4-07	Proposed West Elevation Proposed Rear Elevation	Rev -
SC-PP4-09	Proposed Labanon Park Street Elevation	Rev -
SC-PP4-10	Proposed Section CC	Rev -
SC-PP4-11	Proposed Section EE Proposed Section FF	Rev -
<u>Cadmap</u>		
CM/21705	Topographical Survey	Rev -

2.2 Daylight Distribution Room Layout Information

2.2.1 The daylight distribution test has been applied based on the following room layout information:

Online Local Authority planning records

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SO-376-07	Proposed Rear Extension	Rev -
04	Proposed Plans	Rev -

21 Lebanon Park:

01	Existing Plans	Rev -
03	Existing Elevation and Roof plan	Rev -

www.rightmove.co.uk

13 Ferry Road:

Floor Plans Rev -

3 METHODOLOGY OF THE ASSESSMENT

3.1 Local Planning Policy

- 3.1.1 We understand that the Local Authority takes the conventional approach of considering daylight and sunlight amenity with reference to the various numerical tests laid down in the Building Research Establishment (BRE) guide 'Site Layout Planning for Daylight and Sunlight: a guide to good practice, by P J Littlefair. This report is based on the 3rd edition of the BRE guide which was published on 8 June 2022.
- 3.1.2 The standards set out in the BRE guide are intended to be used flexibly. The BRE guide states:
- 3.1.3 "The guide is intended for building designers and their clients, consultants and planning officials. The advice given here is not mandatory and the guide should not be seen as an instrument of planning policy; its aim is to help rather than constrain the designer. Although it gives numerical guidelines, these should be interpreted flexibly, since natural lighting is only one of many factors in site layout design."
- 3.1.4 In reference to applying different numerical target values in different locations, the BRE guide states:
- 3.1.5 "These values are purely advisory and different targets may be used based on the special requirements of the proposed development or its location."

3.2 National Planning Policy Framework

- 3.2.1 The BRE numerical guidelines should be considered in the context of the National Planning Policy Framework (NPPF), which stipulates that local planning authorities should take a flexible approach to daylight and sunlight to ensure the efficient use of land. The NPPF states:
- 3.2.2 "Local planning authorities should refuse applications which they consider fail to make efficient use of land, taking into account the policies in this Framework. In this context, when considering applications for housing, authorities should take a flexible approach in applying policies or guidance relating to daylight and sunlight, where

they would otherwise inhibit making efficient use of a site (as long as the resulting scheme would provide acceptable living standards)."

3.3 National Planning Practice Guidance

3.3.1 The BRE numerical guidelines should also be considered in the context of the National Planning Practice Guidance (NPPG). The NPPG states that developments should maintain acceptable living standards. It goes on to explain that what this means in practice is that appropriate levels of sunlight and daylight, will depend to some extent on the context for the development. This is consistent with the BRE guide which as noted in paragraphs 3.1.4 to 3.1.5 above, states that site location is a relevant factor when setting sunlight and daylight targets.

3.4 Daylight to Windows

- 3.4.1 Diffuse daylight is the light received from the sun which has been diffused through the sky. Even on a cloudy day, when the sun is not visible, a room will continue to be lit with light from the sky. This is diffuse daylight.
- 3.4.2 Diffuse daylight calculations should be undertaken to all rooms within domestic properties, where daylight is required, including living rooms, kitchens and bedrooms. The BRE guide states that windows to bathrooms, toilets, storerooms, circulation areas and garages need not be analysed. These room types are non-habitable and do not have a requirement for daylight.
- 3.4.3 The BRE guide states that the tests may also be applied to non-domestic buildings where there is a reasonable expectation of daylight. The BRE guide explains that this would normally include schools, hospitals, hotels and hostels, small workshops and some offices. The BRE guide is not explicit in terms of which types of offices it regards as having a requirement for daylight. However, it is widely accepted amongst consultants and local authorities, that for planning purposes, offices (which are commercial in nature) do not have a requirement for daylight. The point is touched on in the 'Daylighting and Sunlighting' guidance note published by the Royal Institution of Chartered Surveyors (RICS), which gives guidance to surveyors on how to produce their reports:

- 3.4.4 "The report should establish the limits of the assessment. For example, existing commercial premises are rarely assessed for loss of amenity."
- 3.4.5 The BRE guide contains two tests which measure diffuse daylight:

Test 1 Vertical Sky Component

- 3.4.6 The Vertical Sky Component is a measure of available skylight at a given point on a vertical plane. Diffuse daylight may be adversely affected if after a development the Vertical Sky Component is both less than 27% and less than 0.8 times its former value.
- 3.4.7 The BRE guide states that the total amount of skylight can be calculated by finding the Vertical Sky Component at the centre of each main window. However, the guide states that if there would be a significant loss of light to the main window but the room also has one or more smaller windows, an overall Vertical Sky Component may be derived by weighting each Vertical Sky Component element in accordance with the proportion of the total glazing area represented by its window.

Test 2 Daylight Distribution

- 3.4.8 The distribution of daylight within a room can be calculated by plotting the 'no sky line'. The no sky line is a line which separates areas of the working plane that do and do not have a direct view of the sky. Daylight may be adversely affected if, after the development, the area of the working plane in a room which can receive direct skylight is reduced to less than 0.8 times its former value.
- 3.4.9 The BRE guide states that both the total amount of skylight (Vertical Sky Component) and its distribution within the building (Daylight Distribution) are important. The BRE guide states that the daylight distribution calculation can only be carried out where room layouts are known. It states that using estimated room layouts is likely to give inaccurate results and is not recommended. Therefore, we don't endorse the practice of applying the test based on assumed room layouts. However, we can provide additional daylight distribution data upon request by the local authority, if neighbouring room layout information is confirmed.

3.5 Sunlight availability to Windows

- 3.5.1 The BRE sunlight tests should be applied to all main living rooms and conservatories which have a window which faces within 90 degrees of due south. The BRE guide states that kitchens and bedrooms are less important, although care should be taken not to block too much sunlight. It also states that normally loss of sunlight need not be analysed to kitchens and bedrooms, except for bedrooms which also comprise a living space. The tests should also be applied to non-domestic buildings where there is a particular requirement for sunlight.
- 3.5.2 The test is intended to be applied to main windows which face within 90 degrees of due south. However, the BRE guide explains that if the main window faces within 90 degrees of due north, but a secondary window faces within 90 degrees of due south, sunlight to the secondary window should be checked. For completeness, we have tested all windows which face within 90 degrees of due south. The BRE guide states that sunlight availability may be adversely affected if the centre of the window:
 - receives less than 25% of annual probable sunlight hours, or less than 5% of annual probable sunlight hours between 21 September and 21 March and
 - receives less than 0.8 times its former sunlight hours during either period and
 - has a reduction in sunlight received over the whole year greater than 4% of annual probable sunlight hours.

3.6 Overshadowing to Gardens and Open Spaces

- 3.6.1 The availability of sunlight should be checked for all open spaces where sunlight is required. This would normally include:
 - Gardens, usually the main back garden of a house
 - Parks and playing fields
 - Children's playgrounds
 - Outdoor swimming pools and paddling pools
 - Sitting out areas, such as those between non-domestic buildings and in public squares
 - Focal points for views such as a group of monuments or fountains.

- 3.6.2 One way to consider overshadowing is by preparing shadow plots. However, the BRE guide states that it must be borne in mind that nearly all structures will create areas of new shadow, and some degree of transient overshadowing is to be expected. Therefore, shadow plots are of limited use as interpretation of the plots is subjective. Shadow plots have not been undertaken as part of this assessment.
- 3.6.3 The BRE guide also contains an objective overshadowing test which has been adopted for the purpose of this assessment. The guide recommends that at least 50% of the area of each amenity space listed above should receive at least two hours of sunlight on 21 March. If as a result of new development an existing garden or amenity area does not meet the above, and the area which can receive two hours of sunlight on 21 March is less than 0.8 times its former value, then the loss of light is likely to be noticeable.

4 RESULTS OF THE ASSESSMENT

4.1 Windows & Amenity Areas Considered

- 4.1.1 The aim of the assessment is to assess the impact of the development on the light receivable by the neighbouring properties at 2 to 36 Sion Court, 9, 11, 13 & 25 Ferry Road and 19 & 21 Lebanon Park
- 4.1.2 The images in Appendix 1 identify the windows we have assessed. Appendix 2 lists the detailed numerical daylight and sunlight test results. Overshadowing to gardens and opens spaces data and contour drawings are provided in Appendix 3.

4.2 Daylight to Windows

Vertical Sky Component

4.2.1 All windows with a requirement for daylight pass the Vertical Sky Component test.

Daylight Distribution

4.2.2 We have undertaken the Daylight Distribution test where room layouts are known.

All rooms with a requirement for daylight pass the daylight distribution test.

4.3 Sunlight to Windows

4.3.1 All windows that face within 90 degrees of due south have been tested for direct sunlight. All windows with a requirement for sunlight pass both the total annual sunlight hours test and the winter sunlight hours test. The proposed development therefore satisfies the BRE direct sunlight to windows requirements.

4.4 Overshadowing to Gardens and Open Spaces

4.4.1 All gardens and open spaces tested meet the BRE recommendations.

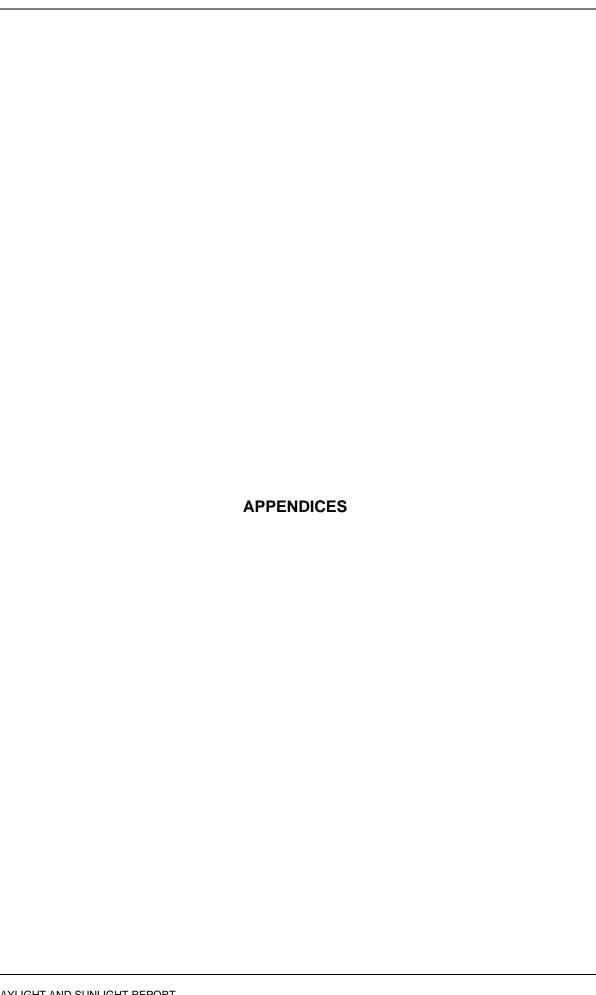
4.5 Conclusion

4.5.1 In summary, the numerical results in this assessment demonstrate that the proposed development will have a low impact on the light receivable by its neighbouring properties. In our opinion, the proposed development sufficiently safeguards the daylight and sunlight amenity of the neighbouring properties.

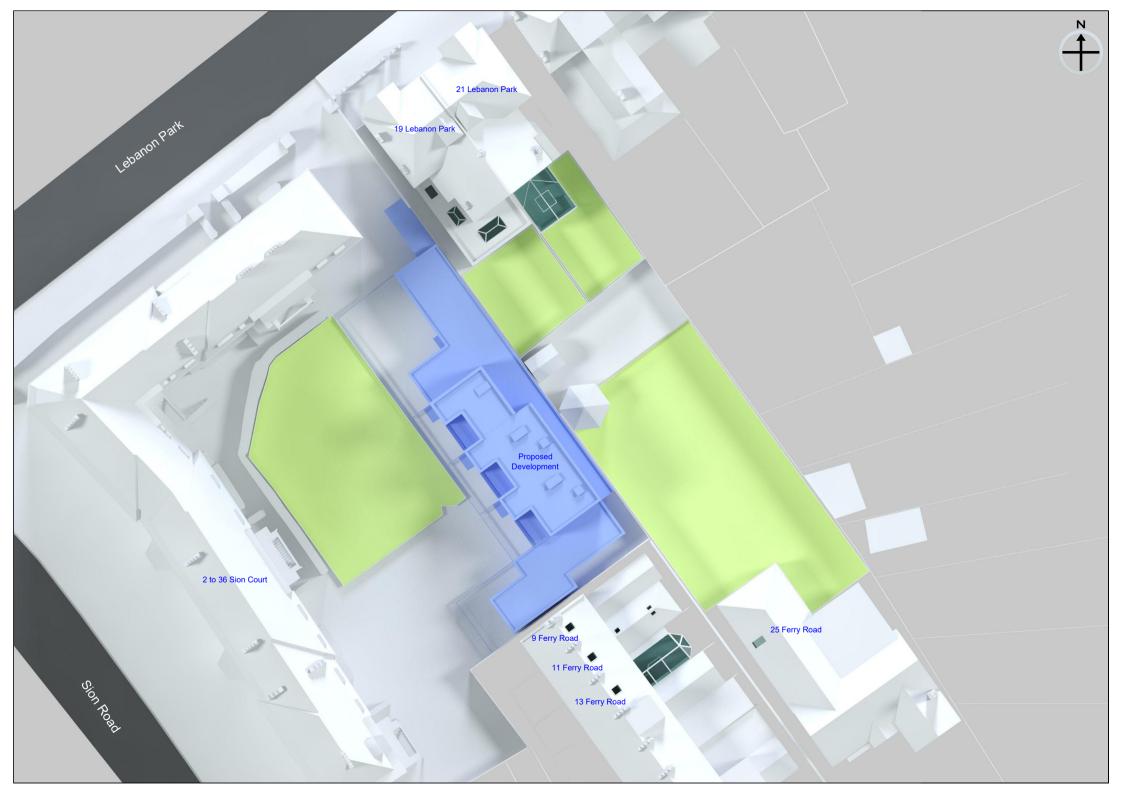
5 CLARIFICATIONS

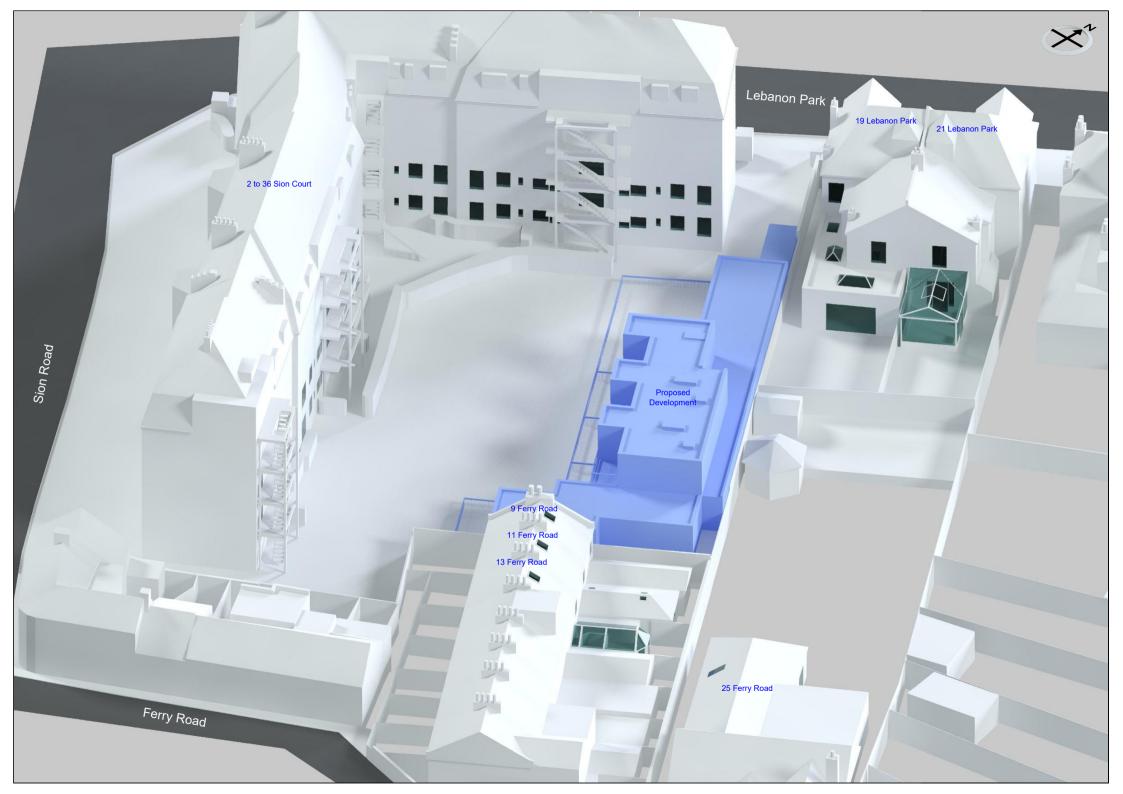
5.1 General

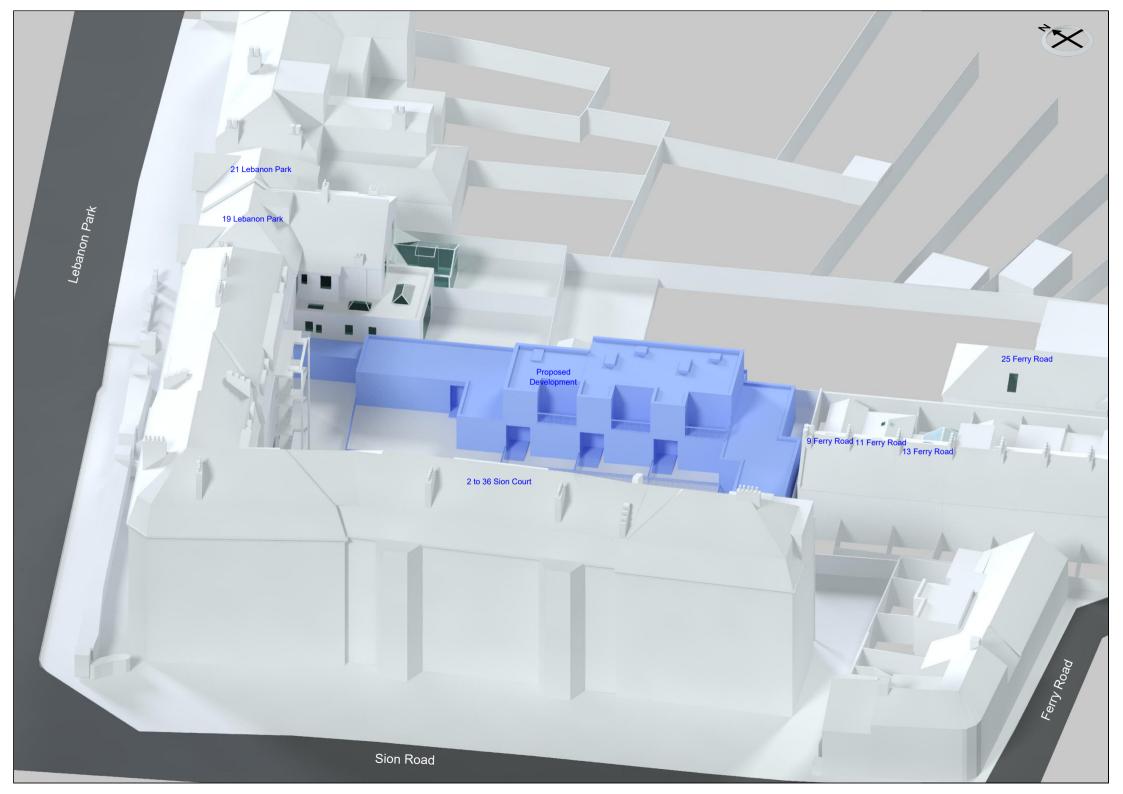
- 5.1.1 The report provided is solely for the use of the client and no liability to anyone else is accepted.
- 5.1.2 The assessment is limited to assessing daylight, sunlight and overshadowing to neighbouring windows, gardens and open spaces as set out in section 2.2, 3.2 and 3.3 of the BRE Guide.
- 5.1.3 The assessment is based on the information listed in section 2 of this report and a site visit undertaken in April 2019. We have not had access to neighbouring properties.
- 5.1.4 This assessment does not calculate the effects of trees and hedges on daylight, sunlight and overshadowing to gardens. The BRE guide states that it is usual to ignore the effect of existing trees.
- 5.1.5 We have undertaken the assessment following the guidelines of the RICS publication "Surveying Safely". Where limited access or information is available, assumptions will have been made which may affect the conclusions reached in this report. For example, where neighbouring room uses are not known, we will either make a reasonable assumption regarding the use based on external observations, or take the prudent approach of assuming the room is of domestic purposes.
- 5.1.6 This report is based upon and subject to the scope of work set out in Right of Light Consulting's quotation and standard terms and conditions.

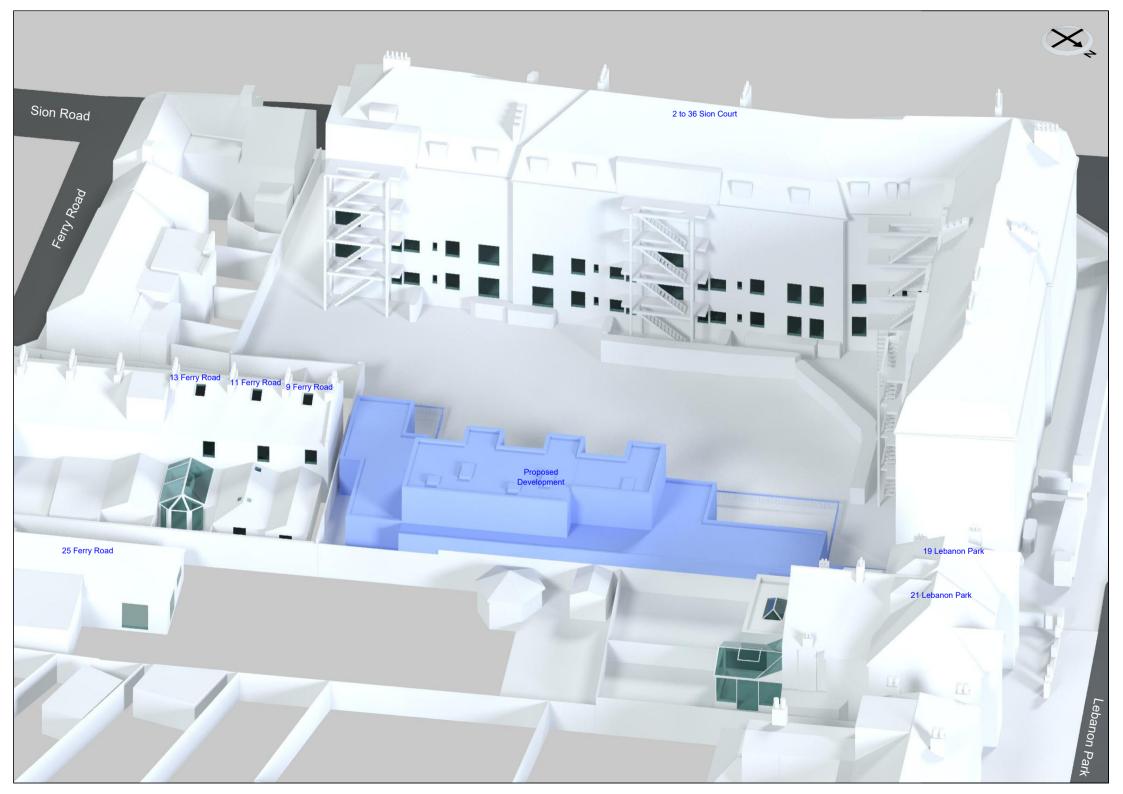


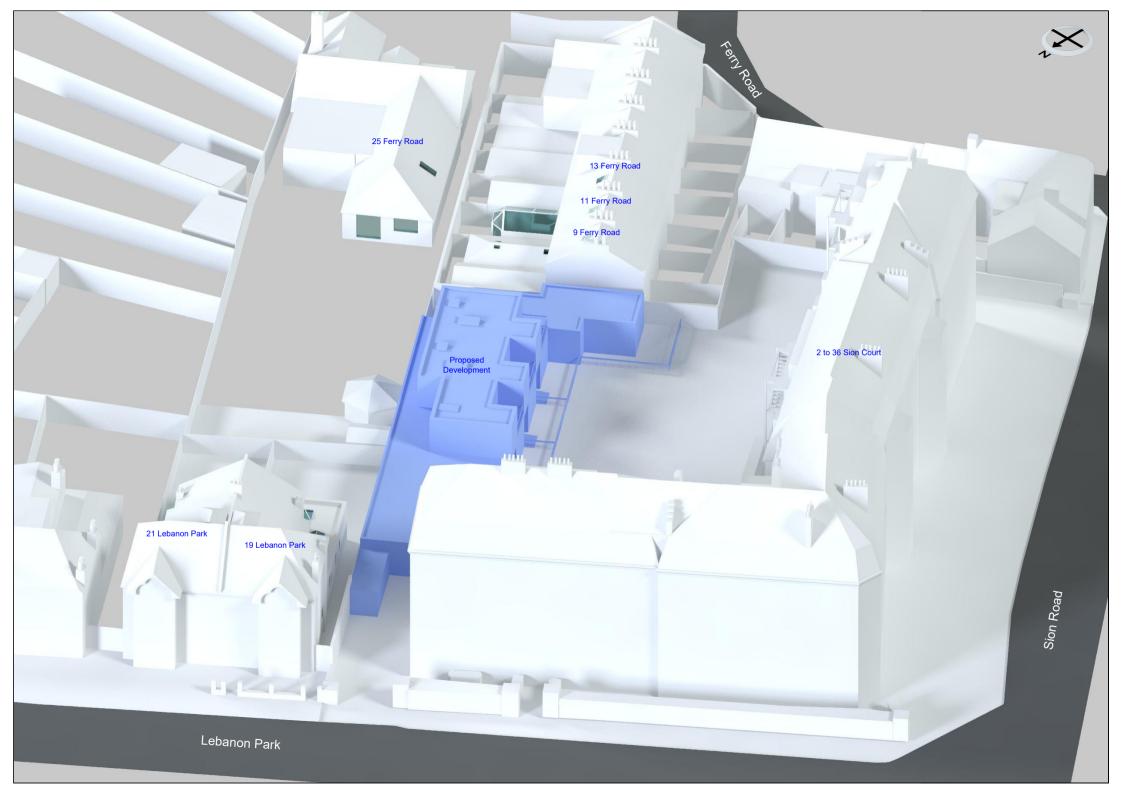
APPENDIY 1	
ALL ENDIX I	
WINDOW & GARDEN KEY	
	APPENDIX 1 WINDOW & GARDEN KEY











Neighbouring Windows



2 to 36 Sion Court



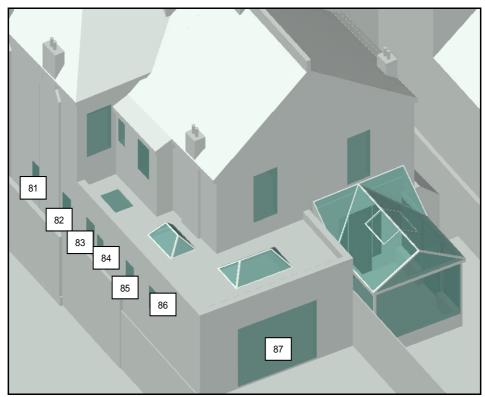
2 to 36 Sion Court



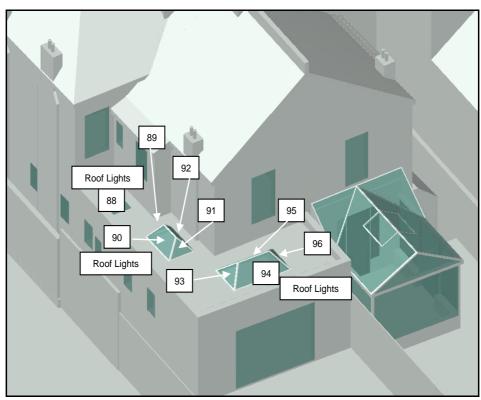
2 to 36 Sion Court



2 to 36 Sion Court



19 Lebanon Park



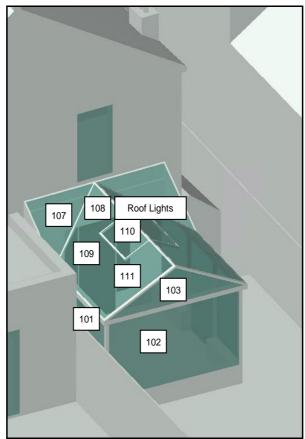
19 Lebanon Park



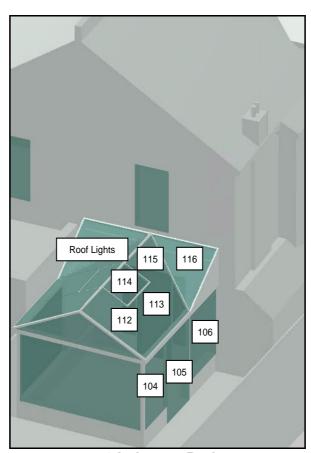
19 Lebanon Park



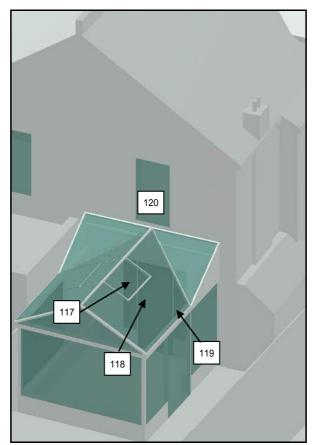
19 Lebanon Park



21 Lebanon Park



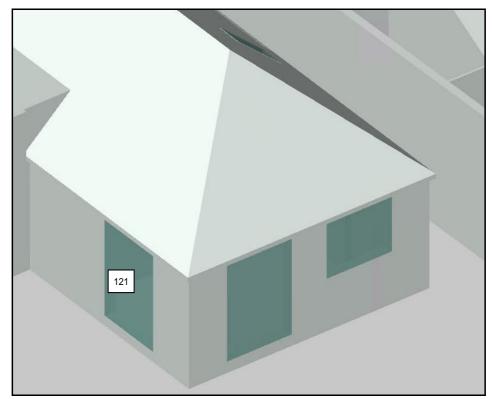
21 Lebanon Park



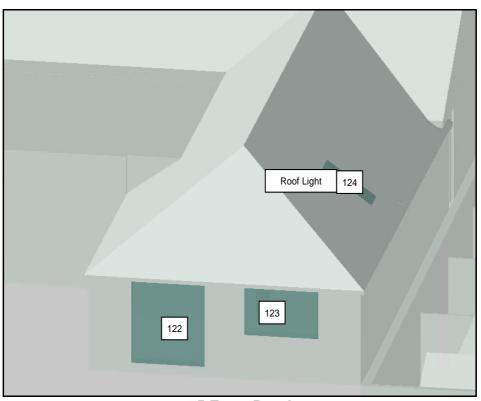
21 Lebanon Park



21 Lebanon Park



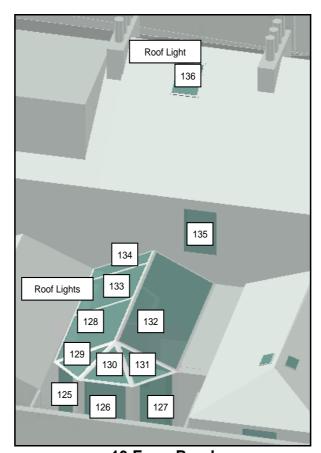
25 Ferry Road



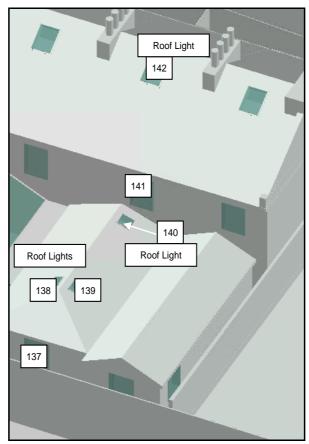
25 Ferry Road



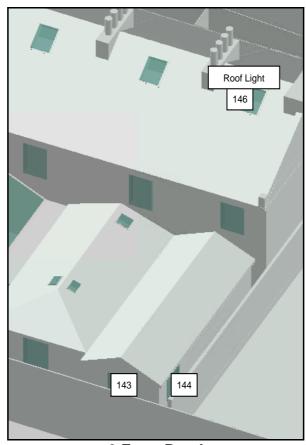
25 Ferry Road



13 Ferry Road



11 Ferry Road



9 Ferry Road



9 Ferry Road



Appendix 2 - Vertical Sky Component New Residential Units at Sion Court, Sion Road, Twickenham TW1 3DD

		V 11 101 0			
Reference	Room Use	- 1	Vertical Sky		
		Before	After	Loss	Ratio
2 to 36 Sion Court					
Ground Floor					
Window 1	Domestic	23.3%	23.2%	0.1%	1.0
Window 2	Domestic	6.5%	6.2%	0.3%	0.95
Window 3	Domestic	15.5%	15.1%	0.4%	0.97
Window 4	Domestic	26.5%	26.1%	0.4%	0.98
Window 5	Domestic	32.4%	32.0%	0.4%	0.99
Window 6	Domestic	33.5%	33.1%	0.4%	0.99
Window 7	Domestic	34.0%	33.5%	0.5%	0.99
Window 8	Domestic	32.6%	33.6%	-1.0%	1.03
Window 9	Domestic	32.8%	33.0%	-0.2%	1.01
Window 10	Domestic	32.2%	32.2%	0.0%	1.0
Window 11	Domestic	26.9%	26.7%	0.2%	0.99
Window 12	Domestic	16.5%	16.4%	0.1%	0.99
Window 13	Domestic	17.6%	17.2%	0.4%	0.98
Window 14	Domestic	15.9%	15.4%	0.5%	0.97
Window 15	Domestic	25.1%	24.7%	0.4%	0.98
Window 16	Domestic	30.0%	29.6%	0.4%	0.99
Window 17	Domestic	30.7%	30.3%	0.4%	0.99
Window 18	Domestic	30.0%	29.7%	0.3%	0.99
Window 19	Domestic	29.1%	28.8%	0.3%	0.99
Window 20	Domestic	20.3%	20.1%	0.2%	0.99
Window 21	Domestic	4.4%	4.2%	0.2%	0.95
Window 22	Domestic	0.5%	0.5%	0.0%	1.0
Window 23	Domestic	1.0%	1.0%	0.0%	1.0
Window 24	Domestic	2.8%	2.9%	-0.1%	1.04
Window 25	Domestic	2.6%	2.6%	0.0%	1.0
Window 26	Domestic	9.8%	9.6%	0.2%	0.98
Window 27	Domestic	20.4%	20.2%	0.2%	0.99
Window 28	Domestic	23.0%	22.8%	0.2%	0.99
Window 29	Domestic	24.8%	24.7%	0.1%	1.0
Window 30	Domestic	27.5%	27.3%	0.2%	0.99
Window 31	Domestic	28.4%	28.2%	0.2%	0.99
Window 32	Domestic	27.7%	27.4%	0.3%	0.99
Window 33	Domestic	22.8%	22.5%	0.3%	0.99
Window 34	Domestic	7.5%	7.1%	0.4%	0.95
Window 35	Domestic	17.1%	16.9%	0.2%	0.99
Window 36	Domestic	16.8%	16.4%	0.4%	0.98
Window 37	Domestic	26.4%	26.1%	0.3%	0.99
Window 38	Domestic	31.5%	31.3%	0.2%	0.99
Window 39	Domestic	32.0%	32.0%	0.0%	1.0
Window 40	Domestic	31.3%	31.6%	-0.3%	1.01

Appendix 2 - Vertical Sky Component New Residential Units at Sion Court, Sion Road, Twickenham TW1 3DD

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Reference	Room Use	D (Vertical Sky		. .:
		Before	After	Loss	Ratio
First Floor					
Window 41	Domestic	25.3%	25.3%	0.0%	1.0
Window 42	Domestic	8.2%	8.2%	0.0%	1.0
Window 43	Domestic	17.9%	17.9%	0.0%	1.0
Window 44	Domestic	29.0%	29.0%	0.0%	1.0
Window 45	Domestic	35.0%	34.9%	0.1%	1.0
Window 46	Domestic	36.1%	36.1%	0.0%	1.0
Window 47	Domestic	36.6%	36.5%	0.1%	1.0
Window 48	Domestic	36.7%	36.6%	0.1%	1.0
Window 49	Domestic	36.0%	35.9%	0.1%	1.0
Window 50	Domestic	35.0%	34.9%	0.1%	1.0
Window 51	Domestic	29.4%	29.2%	0.2%	0.99
Window 52	Domestic	18.9%	18.8%	0.1%	0.99
Window 53	Domestic	19.1%	19.1%	0.0%	1.0
Window 54	Domestic	18.1%	18.0%	0.1%	0.99
Window 55	Domestic	27.5%	27.4%	0.1%	1.0
Window 56	Domestic	32.5%	32.4%	0.1%	1.0
Window 57	Domestic	33.3%	33.2%	0.1%	1.0
Window 58	Domestic	32.7%	32.7%	0.0%	1.0
Window 59	Domestic	31.9%	31.8%	0.1%	1.0
Window 60	Domestic	22.5%	22.5%	0.0%	1.0
Window 61	Domestic	5.9%	5.9%	0.0%	1.0
Window 62	Domestic	6.8%	6.8%	0.0%	1.0
Window 63	Domestic	7.5%	7.4%	0.1%	0.99
Window 64	Domestic	3.7%	3.7%	0.0%	1.0
Window 65	Domestic	3.9%	3.9%	0.0%	1.0
Window 66	Domestic	11.3%	11.3%	0.0%	1.0
Window 67	Domestic	21.9%	21.9%	0.0%	1.0
Window 68	Domestic	25.2%	25.2%	0.0%	1.0
Window 69	Domestic	27.3%	27.3%	0.0%	1.0
Window 70	Domestic	30.4%	30.3%	0.1%	1.0
Window 71	Domestic	31.1%	31.1%	0.0%	1.0
Window 72	Domestic	30.2%	30.2%	0.0%	1.0
Window 73	Domestic	25.2%	25.2%	0.0%	1.0
Window 74	Domestic	15.1%	15.1%	0.0%	1.0
Window 75	Domestic	18.1%	18.1%	0.0%	1.0
Window 76	Domestic	19.0%	18.9%	0.1%	0.99
Window 77	Domestic	28.6%	28.6%	0.0%	1.0
Window 78	Domestic	34.3%	34.3%	0.0%	1.0
Window 79	Domestic	35.3%	35.3%	0.0%	1.0
Window 80	Domestic	35.8%	35.8%	0.0%	1.0

Appendix 2 - Vertical Sky Component New Residential Units at Sion Court, Sion Road, Twickenham TW1 3DD

Reference	Room Use		Vertical Sky Component			
		Before	After	Loss	Ratio	
19 Lebanon Park						
Ground Floor						
Window 81	Kitchen	17.4%	17.4%	0.0%	1.0	
Window 82	Kitchen	18.2%	18.6%	-0.4%	1.02	
Window 83	Domestic	18.2%	20.3%	-2.1%	1.12	
Window 84	Domestic	16.9%	20.3%	-3.4%	1.2	
Window 85	Domestic	18.3%	21.5%	-3.2%	1.17	
Window 86	Domestic	16.2%	20.6%	-4.4%	1.27	
Window 87	Domestic	35.0%	35.4%	-0.4%	1.01	
Window 88	Domestic	46.0%	46.0%	0.0%	1.0	
Window 89	Domestic	37.4%	37.4%	0.0%	1.0	
Window 90	Domestic	56.3%	56.2%	0.1%	1.0	
Window 91	Domestic	57.1%	57.1%	0.0%	1.0	
Window 92	Domestic	40.8%	40.8%	0.0%	1.0	
Window 93	Domestic	65.3%	65.3%	0.0%	1.0	
Window 94	Domestic	70.6%	70.7%	-0.1%	1.0	
Window 95	Domestic	58.6%	58.6%	0.0%	1.0	
Window 96	Domestic	54.0%	54.0%	0.0%	1.0	
First Floor						
Window 97	Bedroom	28.8%	28.9%	-0.1%	1.0	
Window 98	WC	16.6%	16.6%	0.0%	1.0	
Window 99	Bathroom	23.1%	23.1%	0.0%	1.0	
Window 100	Bedroom	38.0%	38.2%	-0.2%	1.01	
21 Lebanon Park						
Ground Floor						
Window 101	Conservation	2.8%	2.8%	0.0%	1.0	
Window 102	Conservation	36.1%	36.4%	-0.3%	1.01	
Window 103	Conservation	37.5%	37.8%	-0.3%	1.01	
Window 104	Conservation	32.4%	32.4%	0.0%	1.0	
Window 105	Conservation	30.6%	30.6%	0.0%	1.0	
Window 106	Conservation	26.3%	26.3%	0.0%	1.0	
Window 107	Conservation	53.2%	53.3%	-0.1%	1.0	
Window 108	Conservation	60.9%	61.0%	-0.1%	1.0	
Window 109	Conservation	66.7%	66.7%	0.0%	1.0	
Window 110	Conservation	73.8%	73.9%	-0.1%	1.0	
Window 111	Conservation	79.5%	79.6%	-0.1%	1.0	
Window 112	Conservation	83.6%	83.6%	0.0%	1.0	
Window 113	Conservation	77.2%	77.2%	0.0%	1.0	
Window 114	Conservation	76.9%	76.9%	0.0%	1.0	
Window 115	Conservation	65.4%	65.4%	0.0%	1.0	
Window 116	Conservation	57.8%	57.8%	0.0%	1.0	
Window 117	Reception	27.3%	27.3%	0.0%	1.0	

Appendix 2 - Vertical Sky Component New Residential Units at Sion Court, Sion Road, Twickenham TW1 3DD

Reference	Room Use		Vertical Sky	Component	
		Before	After	Loss	Ratio
Window 118	Reception	29.1%	29.2%	-0.1%	1.0
Window 119	Reception	29.2%	29.3%	-0.1%	1.0
First Floor					
Window 120	Bedroom	38.3%	38.5%	-0.2%	1.01
25 Ferry Road					
Ground Floor					
Window 121	Bedroom	34.1%	34.1%	0.0%	1.0
Window 121 Window 122	Bedroom	32.8%	32.7%	0.0%	1.0
Window 123	Bedroom	32.5%	32.4%	0.1%	1.0
Window 124	Bathroom/WC	83.1%	83.1%	0.0%	1.0
	Datin Com, WC	00.170	00.170	0.070	1.0
13 Ferry Road					
Ground Floor					
Window 125	Kitchen/Breakfast Room	23.1%	23.1%	0.0%	1.0
Window 126	Kitchen/Breakfast Room	30.9%	30.9%	0.0%	1.0
Window 127	Kitchen/Breakfast Room	29.9%	29.9%	0.0%	1.0
Window 128	Kitchen/Breakfast Room	83.1%	83.1%	0.0%	1.0
Window 129	Kitchen/Breakfast Room	82.1%	82.1%	0.0%	1.0
Window 130	Kitchen/Breakfast Room	77.7%	77.7%	0.0%	1.0
Window 131	Kitchen/Breakfast Room	81.3%	81.3%	0.0%	1.0
Window 132	Kitchen/Breakfast Room	81.1%	81.1%	0.0%	1.0
Window 133	Bathroom/WC	71.2%	71.2%	0.0%	1.0
Window 134	Domestic	50.7%	50.7%	0.0%	1.0
First Floor					
Window 135	Bedroom	38.0%	37.9%	0.1%	1.0
Second Floor		0= 00/	0= 00/	2.22/	
Window 136	Loft area	85.6%	85.6%	0.0%	1.0
11 Ferry Road					
Ground Floor					
Window 137	Domestic	22.9%	22.9%	0.0%	1.0
Window 138	Domestic	89.9%	89.9%	0.0%	1.0
Window 139	Domestic	89.3%	89.2%	0.1%	1.0
Window 140	Domestic	61.5%	61.3%	0.2%	1.0

Appendix 2 - Vertical Sky Component New Residential Units at Sion Court, Sion Road, Twickenham TW1 3DD

Reference	Room Use		Vertical Sky	Component	
		Before	After	Loss	Ratio
<u>First Floor</u> Window 141	Domestic	37.9%	37.8%	0.1%	1.0
Second Floor Window 142	Domestic	85.6%	85.6%	0.0%	1.0
9 Ferry Road					
Ground Floor Window 143 Window 144	Domestic Domestic	17.6% 3.9%	18.1% 8.2%	-0.5% -4.3%	1.03 2.1
<u>First Floor</u> Window 145	Domestic	37.6%	37.1%	0.5%	0.99
Second Floor Window 146	Domestic	84.2%	84.2%	0.0%	1.0

Appendix 2 - Daylight Distribution New Residential Units at Sion Court, Sion Road, Twickenham TW1 3DD

Reference	Room Use		Daylight D	istribution	
		Before	After	Loss	Ratio
19 Lebanon Park					
Ground Floor					
Windows 81 & 82	Kitchen	72%	72%	0%	1.0
First Floor					
Window 97	Bedroom	91%	91%	0%	1.0
Window 98	WC	83%	83%	0%	1.0
Window 99	Bathroom	95%	95%	0%	1.0
Window 100	Bedroom	95%	95%	0%	1.0
21 Lebanon Park					
Ground Floor					
Windows 101 to 116	Conservation	100%	100%	0%	1.0
Windows 117 to 119	Reception	95%	95%	0%	1.0
First Floor					
Window 120	Bedroom	94%	94%	0%	1.0
25 Ferry Road					
Ground Floor					
Windows 121 to 123	Bedroom	100%	100%	0%	1.0
Window 124	Bathroom/WC	82%	82%	0%	1.0
13 Ferry Road					
Ground Floor					
Windows 125 to 132	Kitchen/Breakfast Room	95%	95%	0%	1.0
Window 133	Bathroom/WC	100%	100%	0%	1.0
Window 134	Domestic	70%	70%	0%	1.0
First Floor					
Window 135	Bedroom	96%	96%	0%	1.0
		/ -	, -	- · -	
Second Floor					
Window 136	Loft area	81%	81%	0%	1.0

Appendix 2 - Sunlight to Windows New Residential Units at Sion Court, Sion Road, Twickenham TW1 3DD

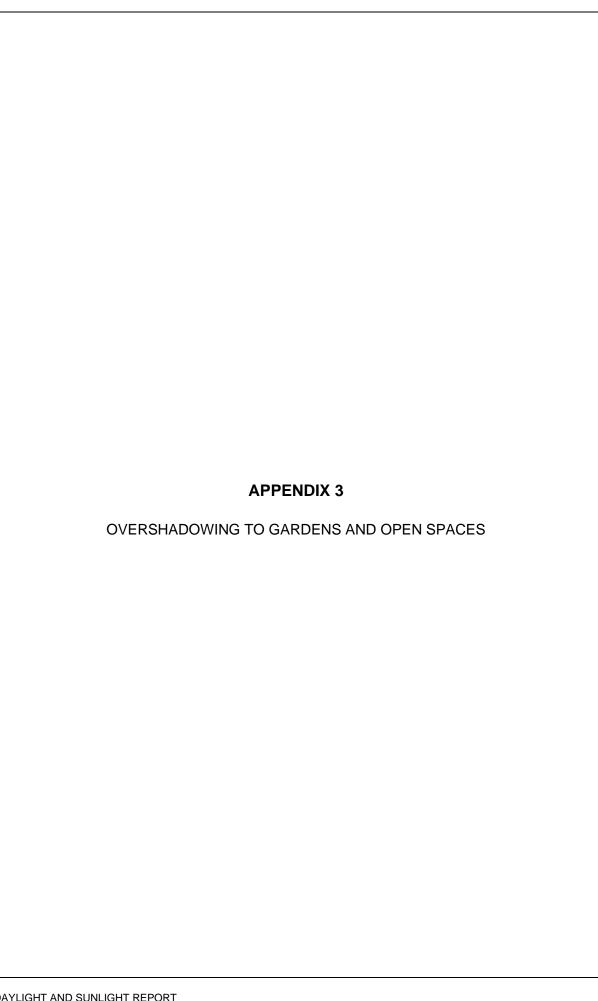
		Sunlight to Windows								
Reference	Room Use	Т	Fotal Sunlight Hours Winter Sunlight Hours							
		Before	After	Loss	Ratio	Before	After	Loss	Ratio	
2 to 36 Sion Court										
Ground Floor										
Window 25	Domestic	6%	6%	0%	1.0	0%	0%	0%	1.0	
Window 26	Domestic	19%	19%	0%	1.0	2%	2%	0%	1.0	
Window 27	Domestic	33%	33%	0%	1.0	6%	6%	0%	1.0	
Window 28	Domestic	38%	38%	0%	1.0	7%	7%	0%	1.0	
Window 29	Domestic	41%	41%	0%	1.0	7%	7%	0%	1.0	
Window 30	Domestic	48%	48%	0%	1.0	9%	9%	0%	1.0	
Window 31	Domestic	53%	53%	0%	1.0	10%	10%	0%	1.0	
Window 32	Domestic	54%	52%	2%	0.96	12%	10%	2%	0.83	
Window 33	Domestic	46%	45%	1%	0.98	12%	11%	1%	0.92	
Window 34	Domestic	27%	26%	1%	0.96	6%	5%	1%	0.83	
Window 35	Domestic	33%	32%	1%	0.97	9%	8%	1%	0.89	
Window 36	Domestic	28%	29%	-1%	1.04	10%	11%	-1%	1.1	
Window 37	Domestic	43%	43%	0%	1.0	11%	11%	0%	1.0	
Window 38	Domestic	56%	56%	0%	1.0	17%	17%	0%	1.0	
Window 39	Domestic	61%	62%	-1%	1.02	19%	20%	-1%	1.05	
Window 40	Domestic	59%	60%	-1%	1.02	17%	18%	-1%	1.06	
First Floor										
Window 65	Domestic	7%	7%	0%	1.0	1%	1%	0%	1.0	
Window 66	Domestic	22%	22%	0%	1.0	5%	5%	0%	1.0	
Window 67	Domestic	33%	33%	0%	1.0	6%	6%	0%	1.0	
Window 68	Domestic	39%	39%	0%	1.0	7%	7%	0%	1.0	
Window 69	Domestic	46%	46%	0%	1.0	9%	9%	0%	1.0	
Window 70	Domestic	54%	54%	0%	1.0	11%	11%	0%	1.0	
Window 71	Domestic	62%	62%	0%	1.0	14%	14%	0%	1.0	
Window 72	Domestic	58%	58%	0%	1.0	14%	14%	0%	1.0	
Window 73	Domestic	52%	52%	0%	1.0	15%	15%	0%	1.0	
Window 74	Domestic	37%	37%	0%	1.0	14%	14%	0%	1.0	
Window 75	Domestic	34%	34%	0%	1.0	12%	12%	0%	1.0	
Window 76	Domestic	32%	32%	0%	1.0	14%	14%	0%	1.0	
Window 77	Domestic	44%	44%	0%	1.0	12%	12%	0%	1.0	
Window 78	Domestic	58%	58%	0%	1.0	19%	19%	0%	1.0	
Window 79	Domestic	63%	63%	0%	1.0	20%	20%	0%	1.0	
Window 80	Domestic	66%	66%	0%	1.0	21%	21%	0%	1.0	
19 Lebanon Park										
Ground Floor										
Window 81	Kitchen	26%	26%	0%	1.0	10%	10%	0%	1.0	
Window 82	Kitchen	37%	38%	-1%	1.03	14%	15%	-1%	1.07	
Window 83	Domestic	36%	41%	-5%	1.14	10%	15%	-5%	1.5	
Window 84	Domestic	36%	42%	-6%	1.17	10%	15%	-5%	1.5	
Window 85	Domestic	38%	44%	-6%	1.16	10%	15%	-5%	1.5	

Appendix 2 - Sunlight to Windows New Residential Units at Sion Court, Sion Road, Twickenham TW1 3DD

		Sunlight to Windows							
Reference	Room Use	Т	Total Sunlight H			W	/inter Sunlight Hours		
		Before	After	Loss	Ratio	Before	After	Loss	Ratio
Window 86	Domestic	34%	44%	-10%	1.29	8%	13%	-5%	1.63
Window 87	Domestic	73%	73%	0%	1.0	22%	22%	0%	1.0
Window 88	Domestic	54%	54%	0%	1.0	19%	19%	0%	1.0
Window 90	Domestic	66%	66%	0%	1.0	21%	21%	0%	1.0
Window 91	Domestic	76%	76%	0%	1.0	24%	24%	0%	1.0
Window 93	Domestic	70%	70%	0%	1.0	21%	21%	0%	1.0
Window 94	Domestic	84%	84%	0%	1.0	25%	25%	0%	1.0
First Floor									
Window 97	Bedroom	57%	57%	0%	1.0	20%	20%	0%	1.0
Window 98	WC	38%	38%	0%	1.0	18%	18%	0%	1.0
Window 99	Bathroom	46%	46%	0%	1.0	19%	19%	0%	1.0
Window 100	Bedroom	76%	76%	0%	1.0	25%	25%	0%	1.0
21 Lebanon Park									
Ground Floor									
Window 101	Conservation	14%	14%	0%	1.0	7%	7%	0%	1.0
Window 102	Conservation	73%	75%	-2%	1.03	23%	25%	-2%	1.09
Window 103	Conservation	76%	76%	0%	1.0	25%	25%	0%	1.0
Window 107	Conservation	79%	79%	0%	1.0	25%	25%	0%	1.0
Window 108	Conservation	74%	74%	0%	1.0	23%	23%	0%	1.0
Window 109	Conservation	68%	68%	0%	1.0	16%	16%	0%	1.0
Window 110	Conservation	77%	77%	0%	1.0	23%	23%	0%	1.0
Window 111	Conservation	80%	80%	0%	1.0	23%	23%	0%	1.0
Window 116	Conservation	80%	80%	0%	1.0	26%	26%	0%	1.0
Window 117	Reception	47%	47%	0%	1.0	11%	11%	0%	1.0
Window 118	Reception	58%	58%	0%	1.0	15%	15%	0%	1.0
Window 119	Reception	61%	61%	0%	1.0	17%	17%	0%	1.0
First Floor									
Window 120	Bedroom	77%	77%	0%	1.0	26%	26%	0%	1.0
25 Ferry Road									
Ground Floor									
Window 124	Bathroom/WC	81%	81%	0%	1.0	22%	22%	0%	1.0
13 Ferry Road									
Ground Floor									
Window 125	Kitchen/Breakfast Room	27%	27%	0%	1.0	1%	1%	0%	1.0
Window 128	Kitchen/Breakfast Room	68%	68%	0%	1.0	14%	14%	0%	1.0
Window 129	Kitchen/Breakfast Room	70%	70%	0%	1.0	16%	16%	0%	1.0
Window 133	Bathroom/WC	44%	44%	0%	1.0	8%	8%	0%	1.0
Window 134	Domestic	32%	32%	0%	1.0	5%	5%	0%	1.0

Appendix 2 - Sunlight to Windows New Residential Units at Sion Court, Sion Road, Twickenham TW1 3DD

		Sunlight to Windows									
Reference	Room Use	Т	otal Sun	light Hour	's	Winter Sunlight Hours					
		Before	After	Loss	Ratio	Before	After	Loss	Ratio		
11 Ferry Road											
Ground Floor Window 138	Domestic	80%	80%	0%	1.0	17%	17%	0%	1.0		



Appendix 3 - Overshadowing to Gardens and Open Spaces New Residential Units at Sion Court, Sion Road, Twickenham TW1 3DD

Reference	Total Area		Area receiving at least two hours of sunlight on 21st March									
Reference			Before			After			Loss			Ratio
2 to 36 Sion Court												
Ground Floor Garden 1	288.81	m2	242.03	m2	84%	288.79	m2	100%	-46.76	m2	-16%	1.19
19 Lebanon Park												
Ground Floor Garden 2	75.98	m2	55.48	m2	73%	59.7	m2	79%	-4.22	m2	-6%	1.08
21 Lebanon Park												
Ground Floor Garden 3	61.87	m2	52.21	m2	84%	52.21	m2	84%	0.0	m2	0%	1.0
25 Ferry Road												
Ground Floor Garden 4	384.52	m2	337.29	m2	88%	337.29	m2	88%	0.0	m2	0%	1.0

