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DAYLIGHT & SUNLIGHT REPORT

6 Erskine Road

12th May 2013

A photograph of a modern building facade, viewed from a low angle looking up. The building features a complex, geometric design with a mix of materials, including dark wood slats and light-colored panels. The sky is blue with scattered white clouds. The image is partially obscured by a large, dark grey geometric shape on the right side of the page.

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1. Introduction

This practice has been instructed to report upon the daylight and sunlight implications of the proposed new development at 6 Erskine Road, London, NW3 3AJ. This report will look at the impact the proposal has on the neighbours as well as the light within the proposed residential elements of the scheme. This application covers all buildings on site as shown in drawings 0259 - 15 and 0259 - 16.

The methodology and criteria used for these assessments is provided by the Building Research Establishments guidance 'Site layout planning for daylight and sunlight: a guide to good practice' (BRE, 2011).

2. Guidance

Site layout planning for daylight and sunlight: a guide to good practice, BRE 2011

This document follows from previous guidance produced by Her Majesty's Stationary Office (HMSO) on daylight and sunlight in the built environment and is now the accepted methodology used by local authorities for assessing daylight and sunlight in relation to new developments. It provides methods for the calculation of daylight and sunlight to existing surrounding properties.

There are detailed three methods for calculating daylight, the Vertical Sky Component (VSC), the No-Sky Line Contour (NSC) and the Average Daylight Factor (ADF). For sunlight the Annual Probable Sunlight Hours (APSH) method is discussed.

The VSC method calculates the amount of visible sky available to each window or to points on the façade of a building where windows have not yet been designed. This method does not consider the size or nature of rooms behind the façade. By reference to the BRE guidance, should windows achieve sufficient levels of VSC they are seen as compliant in terms of daylight and no further tests are required.

The NSC method describes the distribution of daylight within rooms by

calculating the area of the 'working plane' which can receive a direct view of the sky and hence 'sky light'. The working plane height is set at 850mm above floor level within a residential property and 700mm within a commercial property. The BRE does not state a required amount of no-sky line but merely suggests a recommended maximum reduction.

The ADF method calculates the average illuminance within a room as a proportion of the illuminance available to an unobstructed point outdoors under a sky of known luminance and luminance distribution. This is the most detailed of the daylight calculations and considers the physical nature of the room behind the window, including; window transmittance, and surface reflectivity.

For sunlight the APSH test calculates the percentage of statistically probable hours of sunlight received by each window in both the summer and winter months. March 21st through to September 21st is considered to be the summer period while September 21st to March 21st is considered the winter period. For properties surrounding a new development only those windows orientated within 90° of due south and which overlook the site of the proposal are relevant for assessment.

The opening paragraphs of the BRE guidelines state: -

"The guide is intended for building designers and their clients, consultants and planning officials. The advice given here is not mandatory and the document 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 because natural lighting is only one of many factors in site layout design. In special circumstances the developer or planning authority may wish to use different target values. For example, in a historic city centre a higher degree of obstruction may be unavoidable if new developments are to match the height and proportions of existing buildings".



It is considered important to note that in high density areas, achieving good levels of daylight and sunlight in accordance with the BRE guidelines, can conflict with other beneficial design factors.

3. Assumptions

Where it has not been possible to gain access to the surrounding properties, details of the internal layouts and floor level heights have been assumed from the external appearance of the building, and the locations of windows. In some cases the location of surrounding windows was not known due to foliage obstructing the view. Where this was a case windows were included to present an absolute worst case. Unless known or otherwise appropriate the depths of rooms have been assumed at 4.27m for residential properties.

For the purposes of the Average Daylight Factor (ADF) calculation we have made the following assumptions of the internal nature of each room: -

Window transmittance -	0.8 (Single glazing)
	0.68 (Double glazing)
Internal reflectance -	0.5 (Light Coloured Finishes)

Additionally, where survey data has not been provided, photographs, OS and brick counts have been used to model the surrounding and existing buildings.

4. Sources of Information

The 3D computer models used in this analysis were produced from an interpretation of the following drawings and confirmed by the architect.

PKS Architects

- 17118A-1LANDSURVEY.dwg
- CHECK_ELE.dwg
- 15872_01_S.dwg
- 15872b_01-02_PE.dwg

Received 03/01/12

PKS Architects

- 772-002-01_ExistingSectionAA.PDF

- 772-001-00_ExistingGround.pdf
- 772-001-01_ExistingFirst.pdf
- 772-001-05_ExistingRoof.pdf

Received 02/12/11

- Ordnance Survey Data
- Site Photographs

5. The Site and Proposal

The site is accessed off Erskine Road and is bound by the rear elevations of King Henry's Street and Regent's Park Road. A site plan illustrating the surrounding area and locations of the properties assessed can be found in appendix 1 (Drawing O259-11). 3D representations of the existing and proposed scenarios are shown in drawing O259- 12 and 16. The building fronting Erskine Road is residential and as such has been assessed for internal daylight and sunlight

The impact of the proposed new development upon the daylight and sunlight to surrounding properties has been assessed for the following properties:

- 1 King Henry Street
- 1c King Henry Street
- 3 King Henry Street
- 5 King Henry Street
- 7 King Henry Street
- 9 King Henry Street
- 11 King Henry Street
- 13 King Henry Street
- 15 King Henry Street
- 17 King Henry Street
- 19 King Henry Street
- 21 King Henry Street
- 23 King Henry Street
- 25 King Henry Street
- 27 King Henry Street
- Chesterfields
- 109 Regents Park Road



- 107 Regents Park Road
- 105 Regents Park Road
- 103 Regents Park Road
- 101 Regents Park Road
- 99 Regents Park Road
- 97 Regents Park Road
- 95 Regents Park Road
- 93 Regents Park Road
- 91 Regents Park Road

6. Assessment Criteria

The impact of a proposal in respect of daylight and sunlight amenity should be assessed by reference to the BRE guidance report: Site Layout Planning for Daylight and Sunlight: A Guide to Good Practice (2011). This specifies the Vertical Sky Component (VSC) and No-Sky Contour (NSC) test for daylight and the Annual Probable Sunlight Hours (APSH) test for sunlight.

The most basic assessment is that of the Vertical Sky Component (VSC). The guidelines suggest that a window should achieve a VSC of above 27% or retain at least 0.8 of its existing value with the proposed development in place. Should a window be compliant in terms of VSC more detailed daylight analysis (ADF and NSC) is not deemed necessary.

The next daylight assessment is the No-skyline contour (NSC). The BRE guidance suggests that a room should retain a view of the sky of at least 0.8 of its existing value. The guidance suggests that ADF should be used to assess daylight within the proposed development. For a predominantly daylight appearance the ADF should exceed 5% if there is no supplementary electric lighting, or 2% if there is supplementary electric lighting. Furthermore, the minimum values for residential accommodation should be 1% for bedrooms, 1.5% for living rooms and 2% for kitchens.

For sunlight the guidance suggests that living rooms or main habitable rooms have the main expectation for sunlight and that kitchens, bedrooms and ancillary rooms are

deemed less important.

To appear well sunlit at least one window within the main living room should receive 25% of total annual sunlight with 5% in the winter period (September to March). Should the room see an absolute reduction in sunlight of less than 4%, it is not considered noticeable to the occupant.

It is important to remember that the BRE Guide states that 'the advice given here is not mandatory and should not be seen as an instrument of planning policy'. Furthermore, daylight criteria should be 'interpreted flexibly because natural lighting is only one of many factors'.

Based upon these statements it is important to apply the guidance sensibly and flexibly taking into account the context of the site. Similarly it is also important to understand that a neighbouring building's design or position may not allow for good daylight/sunlight even prior to development of neighbouring land. In such cases it is inappropriate to strictly apply the guidelines if an adjacent building imposes excessive constraints upon a neighbouring site.

7. Results

Surrounding Properties

Full results of the daylight and sunlight assessments are attached within appendix 2.

Daylight

The results of the VSC assessment have shown that all primary windows serving habitable rooms in the properties assessed retain levels in excess of the BRE criteria or are not reduced by a noticeable level. These properties are therefore seen to be fully BRE compliant in terms of daylight.

Sunlight

The results of the APSH assessment have shown that all site facing windows relevant for assessment are compliant by reference to the BRE criteria. These properties are therefore seen to be fully BRE compliant in terms of sunlight.



Proposed Residential

The residential building is well spaced from external obstruction and as such good daylight and sunlight levels would be expected. An assessment of the lowest 3 floors of residential (ground, first and second) has been conducted as this is where daylight and sunlight would be most constrained.

Daylight

Only one room on the lower 3 floors of residential accommodation sees an ADF level marginally below its target for use. This is a kitchen/dining room on the first floor which sees an ADF of 1.7% marginally below the 2% suggested for a kitchen. This level of daylight is greater than that suggested for a living/dining room (1.5%). With the work surfaces of the kitchen in proximity to the window they will be sufficiently lit for use with the dining area at the rear of the room also being sufficiently lit for use as the ADF for the room as a whole is above 1.5%. The levels of daylight within the residential accommodation within this building are in line with the intentions of the BRE guidance.

Sunlight

All rooms assessed are served by at least one window which achieves the levels of APSH suggested in the BRE guidance. The levels of sunlight to the residential accommodation within this building are in line with the intentions of the BRE guidance.

8. Conclusions

The quality of daylight and sunlight amenity within the surrounding properties has been assessed using the VSC, No sky line, ADF and APSH assessments as recommended within the BRE document 'Site layout planning'.

The results of these assessments have shown that all properties retain good levels of daylight and sunlight when assessed against the proposed development. There is 100% compliance for site facing habitable rooms by reference to the BRE guidelines recommendations for daylight. This is outstanding for a scheme located in such close proximity to surrounding receptors.

Similarly the levels of sunlight retained are excellent with 100% BRE compliance in total

and winter APSH to rooms relevant for assessment.

Daylight and sunlight to surrounding properties has been of key consideration throughout the design process. The outcome is a scheme with 100% BRE compliance causing minimal effects on the daylight and sunlight amenity enjoyed by the neighbouring properties.

The internal daylight and sunlight assessment has shown the all rooms to be in line with the intentions of the BRE guidance for both daylight and sunlight.



Appendix 1

Drawings



Sources of information

PKS Architects
17118A-1LANDSURVEY.dwg
CHECK_ELE.dwg
15872_01_S.dwg
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772-010-01_ProposedFirst.pdf
772-010-02_ProposedSecond.pdf
772-020-01_ProposedSectionAA.PDF
772-020-02_ProposedSectionBB.PDF
772-050-01_ProposedElevationB4INT.
PDF
772-050-02_ProposedElevationB4EXT.
PDF
772-050-03_ProposedElevationB4END.
PDF
772-001-00_ExistingGround.pdf
772-001-01_ExistingFirst.pdf
772-001-05_ExistingRoof.pdf
Received 02/12/11

Ordnance Survey Data
Site Photographs

Project Erskine Road
London

Title Existing Condition
Plan View

Drawn DS Checked DF

Date 09/05/2013 Rel no. 08

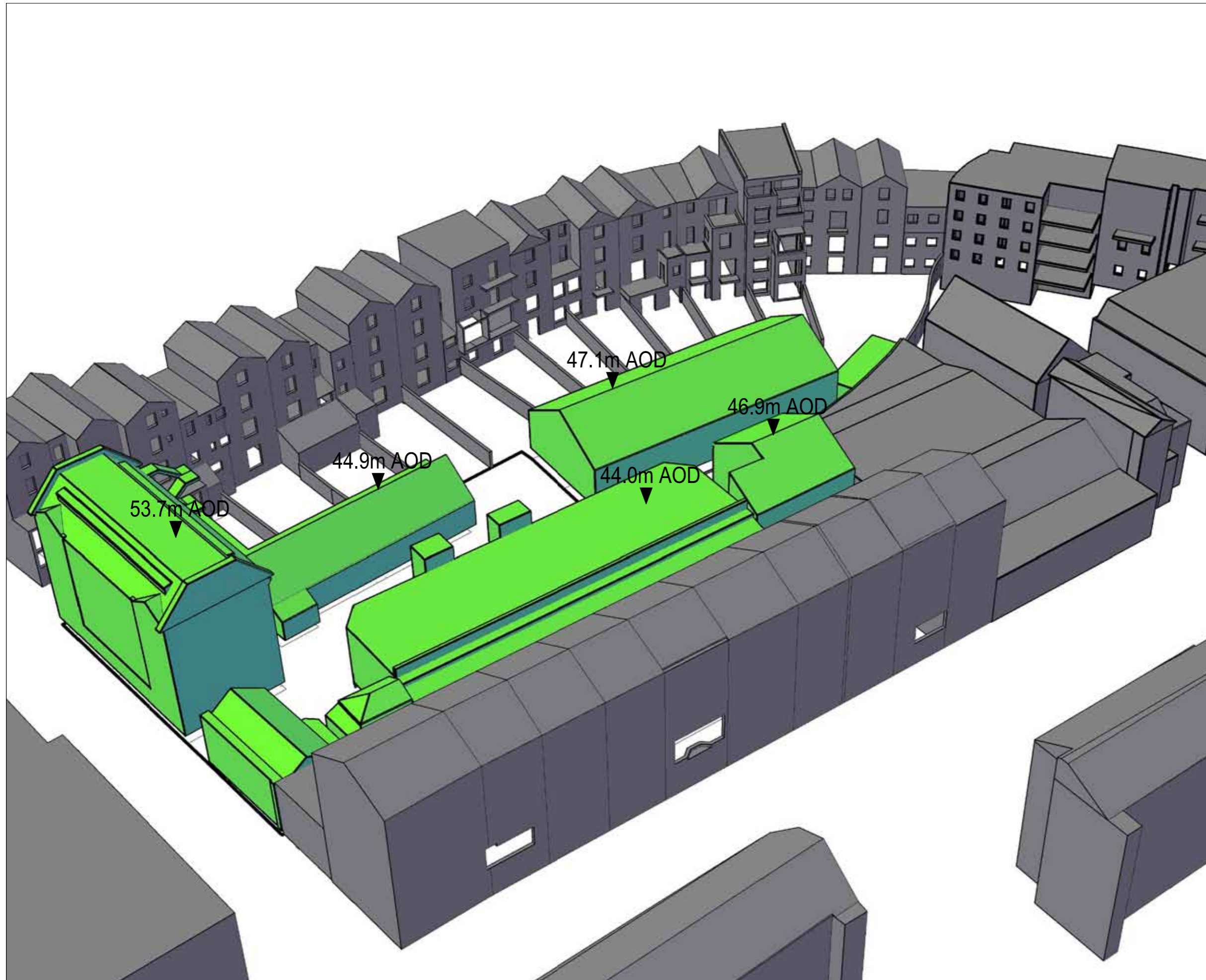
Drawing no. 0259-11

Sources of information

PKS Architects
17118A-1LANDSURVEY.dwg
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772-010-02_ProposedSecond.pdf
772-020-01_ProposedSectionAA.PDF
772-020-02_ProposedSectionBB.PDF
772-050-01_ProposedElevationB4INT.
PDF
772-050-02_ProposedElevationB4EXT.
PDF
772-050-03_ProposedElevationB4END.
PDF
772-001-00_ExistingGround.pdf
772-001-01_ExistingFirst.pdf
772-001-05_ExistingRoof.pdf
Received 02/12/11

Ordnance Survey Data
Site Photographs



Project Erskine Road
London

Title Existing Condition
3D View

Drawn DS Checked DF

Date 09/05/2013 Rel no. 08

Drawing no. 0259-12



Sources of information

PKS Architects
17118A-1LANDSURVEY.dwg
CHECK_ELE.dwg
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772-020-02_ProposedSectionBB.PDF
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772-050-02_ProposedElevationB4EXT.
PDF
772-050-03_ProposedElevationB4END.
PDF
772-001-00_ExistingGround.pdf
772-001-01_ExistingFirst.pdf
772-001-05_ExistingRoof.pdf
Received 02/12/11

Ordnance Survey Data
Site Photographs

Project Erskine Road
London

Title Proposed Development
Plan View

Drawn DS Checked DF

Date 09/05/2013 Rel no. 08

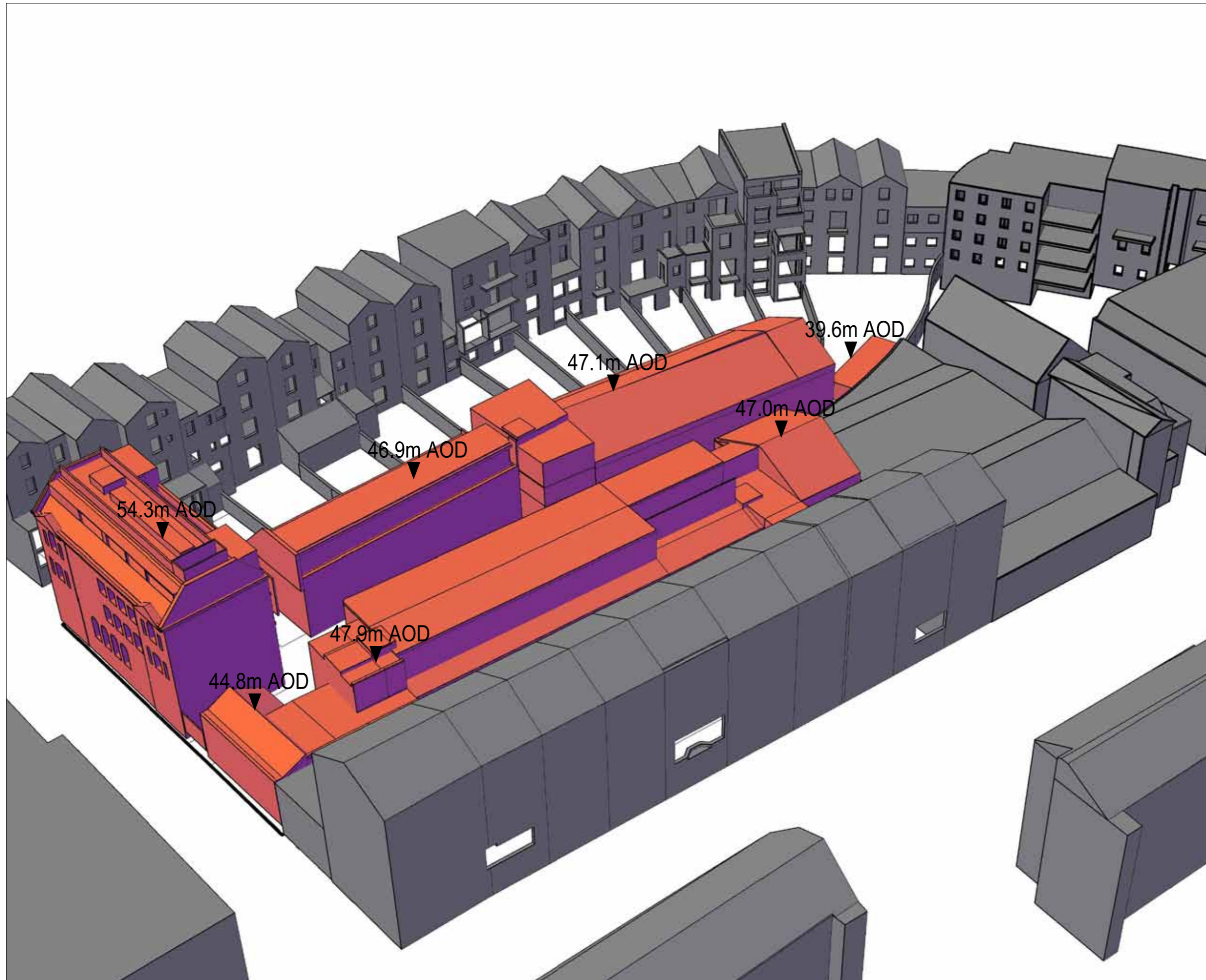
Drawing no. 0259-15

Sources of information

PKS Architects
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PDF
772-050-02_ProposedElevationB4EXT.
PDF
772-050-03_ProposedElevationB4END.
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772-001-01_ExistingFirst.pdf
772-001-05_ExistingRoof.pdf
Received 02/12/11

Ordnance Survey Data
Site Photographs



Project Erskine Road
London

Title Proposed Development
3D View

Drawn DS Checked DF

Date 09/05/2013 Rel no. 08

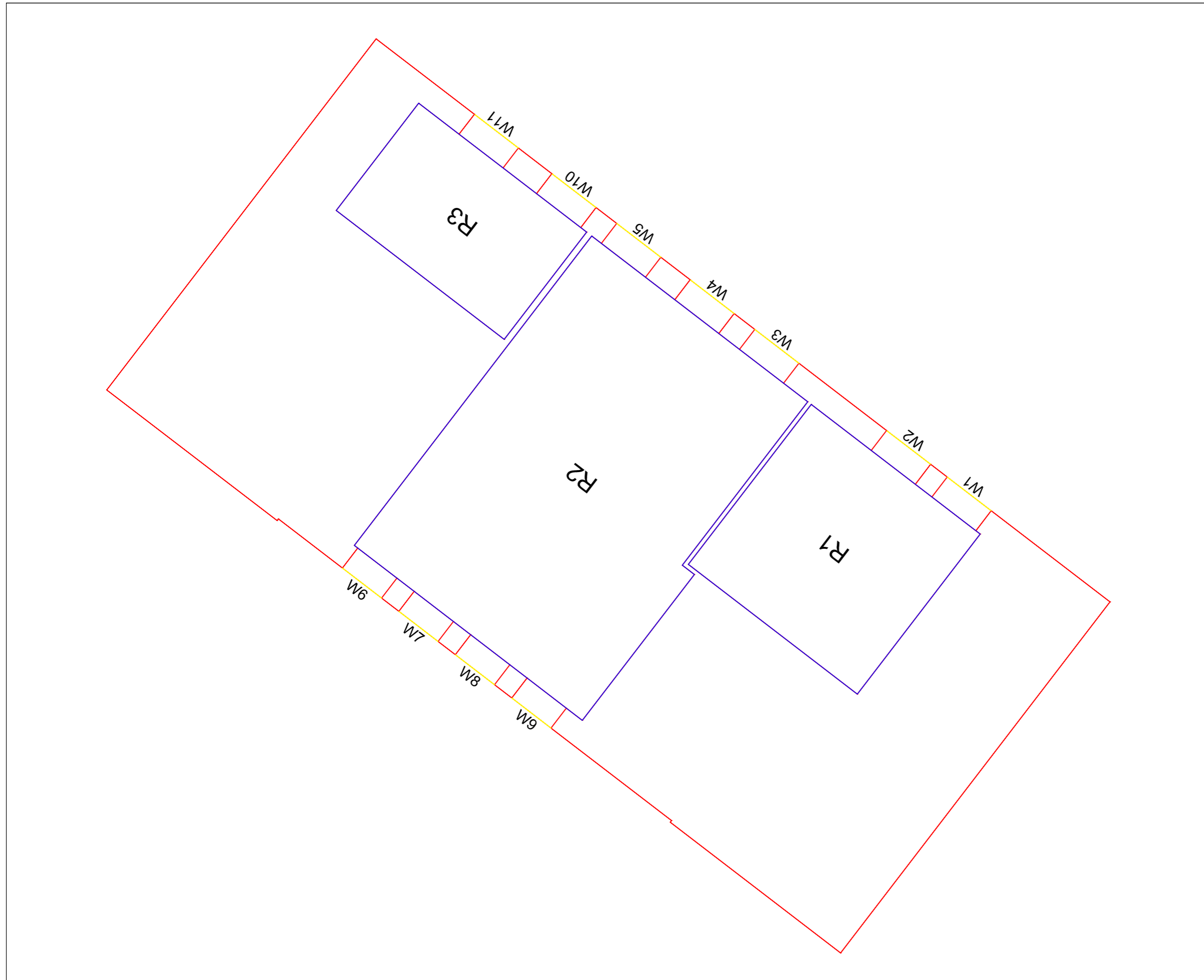
Drawing no. 0259-16

Sources of information

PKS Architects
17118A-1LANDSURVEY.dwg
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772-020-02_ProposedSectionBB.PDF
772-050-01_ProposedElevationB4INT.
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772-050-03_ProposedElevationB4END.
PDF
772-001-00_ExistingGround.pdf
772-001-01_ExistingFirst.pdf
772-001-05_ExistingRoof.pdf
Received 02/12/11

Ordnance Survey Data
Site Photographs



Project Erskine Road
London

Title Internal Room Layouts
Ground Level

Drawn DS Checked DF

Date 13/05/2013 Rel no. ID01

Drawing no. 0259-ID01

Sources of information

PKS Architects
17118A-1LANDSURVEY.dwg
CHECK_ELE.dwg
15872_01_S.dwg
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772-020-01_ProposedSectionAA.PDF
772-020-02_ProposedSectionBB.PDF
772-050-01_ProposedElevationB4INT.
PDF
772-050-02_ProposedElevationB4EXT.
PDF
772-050-03_ProposedElevationB4END.
PDF
772-001-00_ExistingGround.pdf
772-001-01_ExistingFirst.pdf
772-001-05_ExistingRoof.pdf
Received 02/12/11

Ordnance Survey Data
Site Photographs



Project Erskine Road
London

Title Internal Room Layouts
First Level

Drawn DS Checked DF

Date 13/05/2013 Rel no. ID01

Drawing no. 0259-ID02

Sources of information

PKS Architects
17118A-1LANDSURVEY.dwg
CHECK_ELE.dwg
15872_01_S.dwg
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PKS Architects
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772-010-02_ProposedSecond.pdf
772-020-01_ProposedSectionAA.PDF
772-020-02_ProposedSectionBB.PDF
772-050-01_ProposedElevationB4INT.
PDF
772-050-02_ProposedElevationB4EXT.
PDF
772-050-03_ProposedElevationB4END.
PDF
772-001-00_ExistingGround.pdf
772-001-01_ExistingFirst.pdf
772-001-05_ExistingRoof.pdf
Received 02/12/11

Ordnance Survey Data
Site Photographs



Project Erskine Road
London

Title Internal Room Layouts
Third Level

Drawn DS Checked DF

Date 13/05/2013 Rel no. ID01

Drawing no. 0259-ID03



Appendix 2

Results of the daylight & sunlight assessments

Address	Room	Window	Room Use	EXISTING VSC	PROPOSED VSC	LOSS	%LOSS	ROOM AREA	EXISTING NSC	PROPOSED NSC	LOSS	%LOSS	EXISTING ADF WINDOW	PROPOSED ADF WINDOW	LOSS	% LOSS	EXISTING APSH TOTAL	PROPOSED APSH TOTAL	% TOTAL LOSS	% WINTER LOSS						
27 King Henry Street																										
Ground	R1	W1	Unknown	10.05	11.72	-1.67	-16.58						2.24	2.44			13	5	15	5	-15	0				
	R1	W2		0.47	0.49	-0.03	-5.76						0.01	0.01			N/A	N/A	N/A	N/A	N/A	N/A				
	R1	W3		13.44	14.90	-1.46	-10.86						3.90	4.13			20	8	22	8	-10	0				
	R1	W4		13.90	14.47	-0.57	-4.12						0.51	0.52			N/A	N/A	N/A	N/A	N/A	N/A				
Ground	R2	W5	Unknown	6.36	12.29	-5.94	-93.33	73.74	39.31	42.36	-3.05	-7.75	0.21	0.21	0.33	0.33	-0.12	-57.24	2	0	12	1	-500	0		
First	R3	W6	Unknown	24.69	25.63	-0.93	-3.77	208.21	140.92	146.29	-5.37	-3.81	0.91	0.91	0.94	0.94	-0.02	-2.60	33	9	32	9	3	0		
First	R4	W7	Unknown	14.53	15.49	-0.95	-6.56	88.04	62.50	62.83	-0.33	-0.52	0.94	0.94	0.97	0.97	-0.03	-3.64	21	5	22	5	-5	0		
First	R5	W8	Unknown	20.05	22.19	-2.14	-10.69	173.30	136.09	137.70	-1.61	-1.18	1.14	1.14	1.22	1.22	-0.08	-6.80	26	0	29	1	-12	0		
Second	R6	W9	Unknown	31.26	31.85	-0.60	-1.91	208.21	175.47	180.62	-5.15	-2.94	0.89	0.89	0.90	0.90	-0.01	-1.48	40	9	41	10	-3	-11		
Second	R7	W10	Unknown	20.79	21.39	-0.60	-2.91	88.04	79.20	77.84	1.35	1.71	1.41	1.41	1.43	1.43	-0.03	-1.85	30	7	31	7	-3	0		
25 King Henry Street																										
Ground	R1	W1	Unknown	20.20	21.82	-1.62	-8.02						2.89	3.03			25	0	31	2	-24	0				
	R1	W2		24.76	23.56	1.20	4.86						0.72	3.61			0.69	3.72	-0.12	-3.19	31	3	33	4	-6	-33
First	R2	W3	Unknown	27.42	27.85	-0.43	-1.56	233.25	219.78	218.80	0.99	0.45	2.31	2.31	2.33	2.33	-0.03	-1.08	41	4	43	4	-5	0		
First	R3	W4	Unknown	30.64	30.22	0.41	1.35	91.20	89.96	89.96	0.00	0.00	1.24	1.24	1.22	1.22	0.01	1.11	40	7	39	6	3	14		
Second	R4	W5	Unknown	31.87	31.56	0.32	0.99	154.55	148.69	148.69	0.00	0.00	1.69	1.69	1.68	1.68	0.01	0.81	44	8	43	7	2	13		
Second	R5	W6	Unknown	33.02	32.45	0.57	1.73	52.10	47.44	47.44	0.00	0.00	0.57	0.57	0.56	0.56	0.01	1.66	28	7	28	7	0	0		
Second	R8	W7	Unknown	34.07	33.58	0.48	1.41	91.20	89.95	89.95	0.00	0.00	1.70	1.70	1.68	1.68	0.02	1.26	44	11	44	11	0	0		
Third	R6	W8	Unknown	35.45	34.90	0.55	1.56	154.55	148.65	148.65	0.00	0.00	1.53	1.53	1.51	1.51	0.02	1.39	48	13	47	12	2	8		
Third	R7	W9	Unknown	36.07	35.64	0.44	1.21	52.10	47.44	47.44	0.00	0.00	0.61	0.61	0.61	0.61	0.01	1.23	32	11	31	10	3	9		
23 King Henry Street																										
Ground	R1	W1	Unknown	29.04	27.24	1.80	6.20	134.90	127.18	127.10	0.08	0.06	1.26	1.26	1.20	1.20	0.06	4.60	39	6	38	6	3	0		
Ground	R2	W2	Unknown	28.32	25.92	2.40	8.47	226.02	219.46	218.68	0.78	0.36	2.54	2.54	2.38	2.38	0.16	6.12	47	10	41	6	13	40		
First	R3	W3	Unknown	31.86	31.23	0.63	1.96	134.90	129.43	129.43	0.00	0.00	0.42	0.41	1.06	1.48	1.04	1.46	0.02	1.65	33	6	33	6	0	0
	R3	W4		32.26	31.63	0.63	1.97						1.06	1.48							1.04	1.46	0.02	1.65	42	10
First	R4	W5	Unknown	32.90	32.28	0.62	1.88	226.02	219.19	219.19	0.00	0.00	2.13	2.13	2.10	2.10	0.03	1.53	51	12	51	12	0	0		
Second	R5	W6	Unknown	34.55	34.15	0.40	1.17	134.90	130.18	130.18	0.00	0.00	0.57	0.56	1.22	1.78	1.21	1.77	0.02	0.96	38	9	37	8	3	11
	R5	W7		34.85	34.50	0.35	1.01						1.22	1.78							1.21	1.77	0.02	0.96	46	13
Second	R6	W8	Unknown	35.21	34.92	0.30	0.84	226.02	215.55	215.55	0.00	0.00	1.63	1.63	1.61	1.61	0.01	0.79	54	16	53	15	2	6		
Third	R7	W9	Unknown	37.11	36.90	0.21	0.57	226.02	215.38	215.38	0.00	0.00	1.35	1.35	1.35	1.35	0.01	0.57	54	18	54	18	0	0		
21 King Henry Street																										
First	R1	W1	Unknown	33.30	32.56	0.73	2.20	226.02	219.19	219.19	0.00	0.00	2.15	2.15	2.12	2.12	0.04	1.80	54	15	53	14	2	7		

Address	Room	Window	Room Use	EXISTING	PROPOSED	LOSS	%LOSS	ROOM AREA	EXISTING	PROPOSED	LOSS	%LOSS	EXISTING ADF	PROPOSED ADF	LOSS	% LOSS	EXISTING APSH	PROPOSED APSH	% TOTAL	% WINTER				
				VSC	VSC				NSC	NSC			WINDOW	WINDOW			TOTAL	TOTAL			TOTAL	WINTER	TOTAL	WINTER
First	R2	W2	Unknown	33.25	32.14	1.11	3.34	100.32	93.80	88.53	5.27	5.62	1.78	1.78	1.73	1.73	0.05	2.74	48	15	48	15	0	0
Second	R3	W3	Unknown	35.49	35.22	0.26	0.74	226.02	215.56	215.56	0.00	0.00	1.64	1.64	1.63	1.63	0.01	0.69	55	17	54	16	2	6
Second	R4	W4	Unknown	17.84	17.82	0.01	0.08	100.32	98.98	98.98	0.00	0.00	1.16	1.16	1.15	1.15	0.00	0.01	22	5	22	5	0	0
Third	R5	W5	Unknown	37.18	37.04	0.14	0.38	226.02	215.57	215.57	0.01	0.00	1.36	1.36	1.35	1.35	0.01	0.39	54	18	54	18	0	0
19 King Henry Street																								
Ground	R1	W1	Unknown	29.42	27.24	2.18	7.43	226.02	218.98	218.98	0.00	0.00	2.00	2.00	1.89	1.89	0.11	5.47	47	9	44	6	6	33
First	R1	W2	Unknown	33.53	32.61	0.93	2.76	87.42	85.98	85.98	0.00	0.00	1.24	1.24	1.21	1.21	0.03	2.28	46	13	45	12	2	8
First	R2	W3	Unknown	34.00	33.26	0.74	2.18	226.02	219.19	219.19	0.00	0.00	2.24	2.24	2.20	2.20	0.04	1.83	56	17	55	16	2	6
Second	R1	W4	Unknown	35.60	35.44	0.15	0.43	87.42	85.96	85.96	0.00	0.00	1.30	1.30	1.29	1.29	0.01	0.39	47	14	47	14	0	0
Second	R2	W5	Unknown	36.09	36.02	0.07	0.19	226.02	215.57	215.57	0.00	0.00	1.70	1.70	1.70	1.70	0.00	0.18	55	17	55	17	0	0
Third	R1	W6	Unknown	37.60	37.53	0.07	0.19	226.02	215.58	215.58	0.00	0.00	1.40	1.40	1.40	1.40	0.00	0.19	56	18	56	18	0	0
17 King Henry Street																								
Ground	R1	W1	Unknown	30.91	28.89	2.01	6.51	226.02	219.17	219.17	0.00	0.00	2.08	2.08	1.97	1.97	0.10	5.03	53	15	47	9	11	40
Ground	R2	W2	Unknown	25.69	24.09	1.60	6.23	81.37	60.38	55.51	4.86	8.05	1.68	1.68	1.61	1.61	0.07	4.43	42	15	38	10	10	33
First	R1	W1	Unknown	33.95	33.18	0.78	2.29	226.02	219.19	219.19	0.00	0.00	2.24	2.24	2.20	2.20	0.04	1.92	56	18	55	17	2	6
First	R2	W2	Unknown	27.83	27.08	0.75	2.69	81.37	0.00	81.14	-81.14	#DIV/0!	1.76	1.76	1.73	1.73	0.04	1.99	44	17	43	16	2	6
Second	R1	W3	Unknown	36.12	36.07	0.05	0.14	226.02	215.58	215.57	0.00	0.00	1.70	1.70	1.70	1.70	0.00	0.13	55	17	55	17	0	0
Second	R2	W4	Unknown	14.05	14.06	0.00	-0.01	58.21	57.87	57.87	0.00	0.00	1.50	1.50	1.51	1.51	0.00	0.00	20	5	20	5	0	0
Third	R1	W5	Unknown	37.63	37.58	0.05	0.13	226.02	215.58	215.58	0.00	0.00	1.40	1.40	1.40	1.40	0.00	0.13	55	17	55	17	0	0
15 King Henry Street																								
Ground	R1	W1	Unknown	17.48	16.25	1.24	7.09	143.77	140.99	140.99	0.00	0.00	1.30	1.30	1.24	1.24	0.06	4.66	31	11	28	8	10	27
Ground	R2	W2	Unknown	19.97	19.03	0.94	4.71	178.99	173.69	172.72	0.98	0.56	1.63	1.63	1.58	1.58	0.05	3.13	37	12	34	9	8	25
First	R1	W3	Unknown	33.83	33.18	0.65	1.92	176.05	176.05	176.05	0.00	0.00	7.29		7.17		0.13	1.26	61	20	61	20	0	0
	R1	W4		35.01	34.85	0.16	0.46						3.15	10.44	3.14	10.30			68	23	68	23	0	0
First	R2	W5	Unknown	33.98	33.54	0.44	1.30	227.40	227.40	227.40	0.00	0.00	8.80		8.70		0.10	0.96	63	21	63	21	0	0
	R2	W6		15.67	15.68	-0.01	-0.06						1.38	10.18	1.38	10.08			N/A	N/A	N/A	N/A	N/A	N/A
Second	R1	W7	Unknown	35.29	35.25	0.04	0.12	143.77	140.97	140.97	0.00	0.00	1.58	1.58	1.58	1.58	0.00	0.09	52	17	52	17	0	0
Second	R2	W8	Unknown	26.59	26.56	0.03	0.13	178.99	173.94	173.94	0.00	0.00	1.97	1.97	1.97	1.97	0.00	0.08	42	17	42	17	0	0
Third	R1	W9	Unknown	37.70	37.66	0.03	0.09	143.77	141.18	141.18	0.00	0.00	1.67	1.67	1.67	1.67	0.00	0.08	52	17	52	17	0	0
Third	R2	W10	Unknown	37.64	37.61	0.03	0.08	178.99	174.00	174.00	0.00	0.00	2.38	2.38	2.38	2.38	0.00	0.06	57	18	57	18	0	0

Address	Room	Window	Room Use	EXISTING VSC	PROPOSED VSC	LOSS	%LOSS	ROOM AREA	EXISTING NSC	PROPOSED NSC	LOSS	%LOSS	EXISTING ADF WINDOW	PROPOSED ADF WINDOW	LOSS	% LOSS	EXISTING APSH TOTAL	PROPOSED APSH TOTAL	% TOTAL LOSS	% WINTER LOSS				
13 King Henry Street																								
Ground	R1	W1	Unknown	29.75	29.14	0.61	2.04	206.56	201.05	201.05	0.00	0.00	2.40	2.40	2.37	2.37	0.04	1.54	54	15	53	14	2	7
Ground	R2	W2	Unknown	30.16	29.68	0.49	1.61	90.80	90.63	90.63	0.00	0.00	3.33	3.33	3.29	3.29	0.04	1.25	55	17	54	16	2	6
First	R1	W3	Unknown	33.08	32.75	0.33	1.01	206.56	202.17	202.16	0.01	0.00	2.35	2.35	2.33	2.33	0.02	0.84	58	19	58	19	0	0
First	R2	W4	Unknown	33.97	33.74	0.23	0.67	90.80	90.63	90.63	0.00	0.00	3.65	3.65	3.63	3.63	0.02	0.57	59	19	59	19	0	0
Second	R1	W5	Unknown	35.59	35.57	0.03	0.08	206.56	199.44	199.44	0.00	0.00	1.80	1.80	1.80	1.80	0.00	0.08	59	20	59	20	0	0
Second	R2	W6	Unknown	21.62	21.63	0.00	-0.01	52.31	51.58	51.58	0.00	0.00	2.28	2.28	2.28	2.28	0.00	-0.01	32	9	32	9	0	0
Third	R1	W7	Unknown	37.61	37.58	0.03	0.08	206.56	199.43	199.43	0.00	0.00	1.50	1.50	1.50	1.50	0.00	0.08	58	20	58	20	0	0
Third	R2	W8	Unknown	29.63	29.63	0.00	0.00	52.31	51.61	51.61	0.00	0.00	2.11	2.11	2.11	2.11	0.00	0.00	44	10	44	10	0	0
11 King Henry Street																								
Ground	R1	W1	Unknown	30.22	30.02	0.21	0.68	108.35	108.04	108.04	0.00	0.00	3.00	3.00	2.99	2.99	0.02	0.52	56	16	55	15	2	6
Ground	R2	W2	Unknown	23.10	22.77	0.32	1.40	190.83	169.08	171.03	-1.95	-1.15	1.47	1.47	1.46	1.46	0.01	0.98	43	14	43	14	0	0
First	R1	W3	Unknown	33.97	33.78	0.20	0.58	108.35	108.04	108.04	0.00	0.00	3.30	3.30	3.29	3.29	0.02	0.50	59	19	59	19	0	0
First	R2	W4	Unknown	33.62	33.42	0.20	0.59	190.83	184.85	184.85	0.00	0.00	2.18	2.18	2.17	2.17	0.01	0.51	59	19	60	20	-2	-5
Second	R1	W5	Unknown	21.03	21.02	0.01	0.03	63.37	59.68	59.68	0.00	0.00	1.99	1.99	1.99	1.99	0.00	0.02	34	13	34	13	0	0
Second	R2	W6	Unknown	36.04	36.00	0.04	0.11	190.83	185.19	185.19	0.00	0.00	1.93	1.93	1.93	1.93	0.00	0.10	60	21	60	21	0	0
Third	R1	W7	Unknown	29.01	29.01	0.00	0.00	63.37	61.93	61.93	0.00	0.00	1.85	1.85	1.85	1.85	0.00	0.00	45	17	45	17	0	0
Third	R2	W8	Unknown	37.66	37.63	0.03	0.07	190.83	185.16	185.16	0.00	0.00	1.59	1.59	1.59	1.59	0.00	0.08	60	21	60	21	0	0
9 King Henry Street																								
Ground	R1	W1	Unknown	28.97	29.11	-0.15	-0.50	110.11	107.14	107.14	0.00	0.00	4.20	4.20	4.21	4.21	-0.01	-0.34	58	14	59	15	-2	-7
Ground	R2	W2	Unknown	23.97	23.88	0.09	0.38	57.34	57.13	57.13	0.00	0.00	4.87	4.87	4.86	4.86	0.01	0.25	48	15	47	14	2	7
First	R1	W3	Unknown	31.30	31.18	0.12	0.40	199.76	196.58	196.58	0.00	0.00	3.49	3.49	3.48	3.48	0.01	0.32	58	22	58	22	0	0
First	R2	W4	Unknown	18.75	18.54	0.21	1.13	46.97	46.64	46.64	0.00	0.00	2.63	2.61	4.69	0.02	0.46	31	12	31	12	0	0	
	R2	W5	Unknown	33.14	33.09	0.05	0.16						2.08	2.08				4.71	2.08	4.69	0.02	0.46	54	20
Second	R1	W6	Unknown	35.82	35.80	0.02	0.06	199.76	193.29	193.29	0.00	0.00	1.86	1.86	1.86	1.86	0.00	0.06	60	21	60	21	0	0
Second	R2	W7	Unknown	33.63	33.58	0.05	0.14	117.35	115.70	115.70	0.00	0.00	2.11	2.11	2.11	2.11	0.00	0.12	55	20	55	20	0	0
Third	R1	W8	Unknown	37.53	37.51	0.02	0.06	199.76	193.11	193.11	0.00	0.00	1.53	1.53	1.53	1.53	0.00	0.06	60	21	60	21	0	0
Third	R2	W9	Unknown	36.84	36.81	0.02	0.06	117.35	115.11	115.11	0.00	0.00	1.21	1.21	1.21	1.21	0.00	0.05	54	20	54	20	0	0
7 King Henry Street																								
Ground	R1	W1	Unknown	20.14	20.24	-0.10	-0.51	75.24	74.86	74.86	0.00	0.00	4.20	4.20	4.21	4.21	-0.01	-0.33	39	14	39	14	0	0

Address	Room	Window	Room Use	EXISTING	PROPOSED	LOSS	%LOSS	ROOM AREA	EXISTING	PROPOSED	LOSS	%LOSS	EXISTING ADF	PROPOSED ADF	LOSS	% LOSS	EXISTING APSH	PROPOSED APSH	% TOTAL	% WINTER				
				VSC	VSC				NSC	NSC			WINDOW	WINDOW			TOTAL	TOTAL			TOTAL	WINTER	TOTAL	WINTER
Ground	R2	W2	Unknown	21.22	21.21	0.01	0.05	113.76	112.86	112.86	0.00	0.00	3.30	3.30	3.30	3.30	0.00	0.04	47	19	47	19	0	0
First	R1	W3	Unknown	32.31	32.25	0.06	0.19	75.24	74.87	74.87	0.00	0.00	5.70	5.70	5.69	5.69	0.01	0.17	67	24	66	23	1	4
First	R2	W4	Unknown	32.00	31.98	0.02	0.07	113.76	112.89	112.89	0.00	0.00	4.32	4.32	4.32	4.32	0.00	0.06	68	24	67	23	1	4
Second	R1	W5	Unknown	28.35	28.30	0.05	0.18	139.62	135.28	135.28	0.00	0.00	1.36	1.36	1.35	1.35	0.00	0.13	46	20	46	20	0	0
Second	R2	W6	Unknown	19.35	19.31	0.05	0.25	113.76	112.78	112.78	0.00	0.00	0.90	0.90	0.90	0.90	0.00	0.10	31	12	31	12	0	0
	R2	W7		35.30	35.27	0.03	0.09						2.21	3.12	2.21	3.11			0.00	0.10	65	24	65	24
Third	R1	W8	Unknown	36.02	36.00	0.02	0.07	139.62	134.77	134.77	0.00	0.00	0.87	0.87	0.87	0.87	0.00	0.06	59	23	59	23	0	0
Third	R2	W9	Unknown	28.90	28.87	0.02	0.08	172.26	171.25	171.25	0.00	0.00	2.82	2.82	2.82	2.82	0.00	0.06	53	22	53	22	0	0
5 King Henry Street																								
Ground	R1	W1	Unknown	11.06	11.07	-0.01	-0.07	130.42	120.78	121.08	-0.30	-0.24	0.37	0.37	0.00	-0.18	38	9	39	10	-3	-11		
	R1	W2		26.67	26.75	-0.08	-0.31						1.99	2.00			0.00	0.00	57	21	57	21	0	0
	R1	W3		0.74	0.74	0.00	0.00						0.11	2.47			0.11	2.48	N/A	N/A	N/A	N/A	N/A	N/A
Ground	R2	W4	Unknown	29.47	29.41	0.05	0.18	135.13	0.00	130.97	#####	#DIV/0!	5.65	5.65	5.64	5.64	0.01	0.10	64	18	64	18	0	0
First	R1	W5	Unknown	18.98	18.92	0.06	0.31	130.42	129.50	129.50	0.00	0.00	0.36	0.36	0.00	0.04	47	17	48	18	-2	-6		
	R1	W6		29.95	29.95	0.00	0.00						1.68	1.68			0.00	0.00	60	23	61	24	-2	-4
	R1	W7		0.90	0.90	0.00	0.00						0.09	2.13			0.09	2.13	N/A	N/A	N/A	N/A	N/A	N/A
First	R2	W8	Unknown	33.39	33.40	-0.02	-0.05	135.13	0.00	0.00			4.17	4.17	4.17	4.17	0.00	-0.03	73	24	73	24	0	0
Second	R1	W9	Unknown	21.57	21.54	0.04	0.17	130.42	130.41	130.41	0.00	0.00	0.44	0.44	0.00	0.07	51	19	51	19	0	0		
	R1	W10		34.92	34.89	0.02	0.07						2.24	2.23			0.00	0.00	72	27	72	27	0	0
	R1	W11		6.13	6.13	0.00	0.00						0.25	2.93			0.25	2.93	N/A	N/A	N/A	N/A	N/A	N/A
Second	R2	W12	Unknown	36.08	36.06	0.02	0.06	135.13	135.10	135.10	0.00	0.00	4.46	4.46	4.45	4.45	0.00	0.05	76	27	76	27	0	0
Third	R1	W13	Unknown	23.37	23.33	0.04	0.15	127.56	127.56	127.56	0.00	0.00	0.47	0.47	0.00	0.04	52	20	52	20	0	0		
	R1	W14		37.97	37.95	0.02	0.06						2.48	2.48			0.00	0.00	82	28	82	28	0	0
	R1	W15		23.93	23.93	0.00	0.00						0.48	0.48			0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
	R1	W16		21.40	21.40	0.00	0.00						1.68	5.12			1.68	5.12	N/A	N/A	N/A	N/A	N/A	N/A
Third	R2	W17	Unknown	33.32	33.32	0.00	0.00	149.18	145.79	145.79	0.00	0.00	2.45	2.45	2.45	2.45	0.00	0.01	57	20	57	20	0	0
Fourth	R1	W18	Unknown	38.77	38.74	0.02	0.05	148.81	142.31	142.31	0.00	0.00	1.59	1.59	1.59	1.59	0.00	0.06	57	23	57	23	0	0
Fourth	R2	W19	Unknown	38.89	38.87	0.02	0.05	157.64	157.63	157.63	0.00	0.00	3.08	3.08	3.08	3.08	0.00	0.06	70	28	70	28	0	0
3 King Henry Street																								
Ground	R1	W1	Unknown	17.06	17.06	0.00	0.01	97.36	96.84	96.84	0.00	0.00	1.27	1.27	1.27	1.27	0.00	0.01	34	12	34	12	0	0
Ground	R2	W2	Unknown	24.59	24.61	-0.02	-0.07	227.18	212.84	212.81	0.02	0.01	2.33	2.33	2.33	2.33	0.00	-0.06	47	14	47	14	0	0
First	R1	W3	Unknown	18.98	18.98	0.00	0.00	97.36	96.85	96.85	0.00	0.00	1.28	1.28	1.28	1.28	0.00	0.00	34	12	34	12	0	0
First	R2	W4	Unknown	25.59	25.61	-0.02	-0.06	227.18	215.60	215.60	0.00	0.00	2.25	2.25	2.25	2.25	0.00	-0.05	53	19	53	19	0	0
Second	R1	W5	Unknown	22.02	22.02	0.00	0.00	97.36	96.68	96.68	0.00	0.00	1.40	1.40	1.40	1.40	0.00	0.00	39	15	39	15	0	0
Second	R2	W6	Unknown	32.13	32.13	0.00	0.00	227.18	219.93	219.93	0.00	0.00	2.71	2.71	2.71	2.71	0.00	0.00	62	23	62	23	0	0

Address	Room	Window	Room Use	EXISTING	PROPOSED	LOSS	%LOSS	ROOM AREA	EXISTING	PROPOSED	LOSS	%LOSS	EXISTING ADF	PROPOSED ADF	LOSS	% LOSS	EXISTING APSH	PROPOSED APSH	% TOTAL	% WINTER				
				VSC	VSC				NVC	NVC			WINDOW	WINDOW			TOTAL	TOTAL			TOTAL	WINTER	TOTAL	WINTER
Third	R1	W7	Unknown	25.37	25.37	0.00	0.00	97.36	96.86	96.86	0.00	0.00	1.53	1.53	1.53	1.53	0.00	0.00	44	17	44	17	0	0
Third	R2	W8	Unknown	34.68	34.67	0.01	0.03	227.18	222.88	222.88	0.00	0.00	0.91	0.91	0.91	0.91	0.00	0.04	56	23	56	23	0	0
		W9	Unknown	36.61	36.59	0.02	0.06						0.95	1.86	0.95	1.86			0.00	0.04	63	27	63	27
1 King Henry Street																								
Ground	R1	W1	Unknown	28.98	28.93	0.05	0.16	215.95	207.21	207.16	0.05	0.02	2.38	2.38	2.38	2.38	0.00	0.13	59	18	58	17	2	6
Ground	R2	W2	Unknown	28.91	28.87	0.04	0.14	88.54	85.14	85.14	0.00	0.00	1.50	1.50	1.50	1.50	0.00	0.11	57	21	57	21	0	0
Ground	R3	W3	Unknown	21.75	21.71	0.04	0.17	126.70	112.40	112.08	0.32	0.29	0.96	0.96	0.96	0.96	0.00	0.12	39	14	39	14	0	0
First	R1	W4	Unknown	32.70	32.68	0.02	0.06	215.95	210.17	210.17	0.00	0.00	1.91	1.91	1.91	1.91	0.00	0.05	68	24	68	24	0	0
First	R2	W5	Unknown	32.85	32.83	0.02	0.07	88.54	86.08	86.08	0.00	0.00	1.57	1.57	1.57	1.57	0.00	0.06	60	24	60	24	0	0
First	R3	W6	Unknown	32.58	32.55	0.03	0.08	126.70	124.45	124.45	0.00	0.00	1.21	1.21	1.21	1.21	0.00	0.06	59	23	59	23	0	0
Second	R1	W7	Unknown	35.81	35.79	0.02	0.06	215.95	206.78	206.78	0.00	0.00	1.46	1.46	1.46	1.46	0.00	0.06	64	26	64	26	0	0
Second	R2	W8	Unknown	35.67	35.65	0.01	0.04	88.54	86.08	86.08	0.00	0.00	1.68	1.68	1.68	1.68	0.00	0.04	63	27	63	27	0	0
Second	R3	W9	Unknown	35.42	35.40	0.02	0.05	126.70	124.45	124.45	0.00	0.00	1.30	1.30	1.30	1.30	0.00	0.04	63	27	63	27	0	0
Third	R1	W10	Unknown	37.69	37.67	0.02	0.05	215.95	206.74	206.74	0.00	0.00	1.32	1.32	1.32	1.32	0.00	0.05	66	28	66	28	0	0
1C King Henry Street																								
Ground	R1	W1	Unknown	30.48	30.44	0.04	0.12	90.96	89.02	89.02	0.00	0.00	1.40	1.40	1.40	1.40	0.00	0.10	52	20	52	20	0	0
Ground	R2	W2	Unknown	30.46	30.43	0.04	0.13	117.51	104.78	104.78	0.00	0.00	1.18	1.18	1.18	1.18	0.00	0.10	50	18	50	18	0	0
Ground	R3	W3	Unknown	30.08	30.04	0.04	0.14	116.63	99.28	99.28	0.00	0.00	1.18	1.18	1.17	1.17	0.00	0.11	49	17	49	17	0	0
Ground	R4	W4	Unknown	29.44	29.39	0.05	0.17	105.73	85.39	85.39	0.00	-0.01	1.23	1.23	1.23	1.23	0.00	0.12	48	16	48	16	0	0
Ground	R5	W5	Unknown	0.28	0.28	0.01	2.03	137.62	54.67	53.86	0.81	1.48	0.26	0.26	0.26	0.26	0.00	0.64	0	0	0	0		
Ground	R6	W6	Unknown	1.88	1.86	0.02	1.03	94.07	30.43	30.33	0.11	0.35	0.29	0.29	0.29	0.29	0.00	0.68	1	0	1	0		
First	R1	W7	Unknown	33.10	33.06	0.03	0.11	90.96	89.02	89.02	0.00	0.00	1.49	1.49	1.49	1.49	0.00	0.09	55	23	55	23	0	0
First	R2	W8	Unknown	33.38	33.33	0.04	0.13	117.51	114.71	114.71	0.00	0.00	1.27	1.27	1.27	1.27	0.00	0.12	55	23	55	23	0	0
First	R3	W9	Unknown	33.18	33.14	0.04	0.12	116.63	113.89	113.89	0.00	0.00	1.27	1.27	1.26	1.26	0.00	0.10	54	22	54	22	0	0
First	R4	W10	Unknown	32.77	32.74	0.03	0.10	105.73	103.55	103.55	0.00	0.00	1.33	1.33	1.33	1.33	0.00	0.08	55	23	55	23	0	0
First	R5	W11	Unknown	1.33	1.32	0.00	0.26	137.62	104.93	104.78	0.14	0.14	0.64	0.64	0.64	0.64	0.00	0.06	3	3	3	3	0	0
First	R6	W12	Unknown	3.98	3.96	0.02	0.41	94.07	62.83	62.83	0.00	0.00	0.43	0.43	0.43	0.43	0.00	0.22	3	2	3	2	0	0
Second	R1	W13	Unknown	35.69	35.67	0.02	0.05	90.96	89.04	89.04	0.00	0.00	1.58	1.58	1.58	1.58	0.00	0.05	56	24	56	24	0	0
Second	R2	W14	Unknown	35.92	35.90	0.02	0.06	117.51	114.89	114.89	0.00	0.00	1.34	1.34	1.34	1.34	0.00	0.06	56	24	56	24	0	0
Second	R3	W15	Unknown	35.88	35.86	0.02	0.06	116.63	114.06	114.06	0.00	0.00	1.35	1.35	1.35	1.35	0.00	0.05	56	24	56	24	0	0

Address	Room	Window	Room Use	EXISTING	PROPOSED	LOSS	%LOSS	ROOM AREA	EXISTING	PROPOSED	LOSS	%LOSS	EXISTING ADF	PROPOSED ADF	LOSS	% LOSS	EXISTING APSH	PROPOSED APSH	% TOTAL	% WINTER					
				VSC	VSC				NSC	NSC			WINDOW	WINDOW			TOTAL	TOTAL			TOTAL	WINTER	TOTAL	WINTER	LOSS
Second	R4	W16	Unknown	35.71	35.69	0.02	0.05	105.73	103.76	103.76	0.00	0.00	1.43	1.43	1.43	1.43	0.00	0.05	56	24	56	24	0	0	
Third	R1	W17	Unknown	37.59	37.57	0.02	0.05	90.96	89.04	89.04	0.00	0.00	1.64	1.64	1.64	1.64	0.00	0.05	56	24	56	24	0	0	
Third	R2	W18	Unknown	37.74	37.72	0.02	0.06	117.51	114.89	114.89	0.00	0.00	1.40	1.40	1.40	1.40	0.00	0.05	56	24	56	24	0	0	
Third	R3	W19	Unknown	37.81	37.79	0.02	0.06	116.63	114.06	114.06	0.00	0.00	1.41	1.41	1.41	1.41	0.00	0.05	56	24	56	24	0	0	
Third	R4	W20	Unknown	37.84	37.82	0.02	0.05	105.73	103.76	103.76	0.00	0.00	1.50	1.50	1.50	1.50	0.00	0.05	56	24	56	24	0	0	
Chesterfields																									
Ground	R1	W1	Unknown	20.51	20.51	0.01	0.04	152.17	102.79	102.79	0.00	0.00	0.65	0.65	0.65	0.65	0.00	0.03	38	9	38	9	0	0	
Ground	R2	W2	Unknown	21.37	21.37	0.00	0.01	106.99	89.56	89.56	0.00	0.00	0.84	0.84	0.84	0.84	0.00	0.01	39	9	39	9	0	0	
Ground	R3	W3	Unknown	21.18	21.18	0.00	-0.01	76.90	57.27	57.27	0.00	0.00	1.03	1.03	1.03	1.03	0.00	-0.01	38	8	38	8	0	0	
Ground	R4	W4	Unknown	15.14	15.14	0.00	-0.02	38.64	36.26	36.26	0.00	0.00	1.28	1.28	1.28	1.28	0.00	-0.01	25	4	25	4	0	0	
Ground	R5	W5	Unknown	6.13	6.13	0.00	-0.04	79.34	69.24	69.24	0.00	0.00	1.73	1.73	1.73	1.73	0.00	-0.03	13	7	13	7	0	0	
Ground	R6	W6	Unknown	13.47	13.47	0.00	0.00	86.95	78.25	78.25	0.00	0.00	2.61	2.61	2.61	2.61	0.00	0.00	29	4	29	4	0	0	
Ground	R7	W7	Unknown	3.24	3.24	0.00	0.00	87.12	48.92	48.92	0.00	0.00	1.21	1.21	1.21	1.21	0.00	0.00	7	1	7	1	0	0	
First	R1	W8	Unknown	15.55	15.54	0.01	0.06	152.17	132.92	132.92	0.00	0.00	0.57	0.57	0.57	0.57	0.00	0.03	22	16	22	16	0	0	
First	R2	W9	Unknown	17.25	17.25	0.00	0.02	106.99	101.51	101.51	0.00	0.00	0.77	0.77	0.77	0.77	0.00	0.01	25	16	25	16	0	0	
109 Regent's Park Road																									
Ground	R1	W1	Unknown	30.38	29.63	0.74	2.44	15.18	10.72	10.72	0.00	0.00	0.68	0.68	0.67	0.67	0.01	1.52	N/A	N/A	N/A	N/A	N/A	N/A	
Ground	R2	W2	Unknown	18.76	17.95	0.81	4.30	33.45	26.86	26.84	0.02	0.06	0.97	0.97	0.94	0.94	0.03	2.65	N/A	N/A	N/A	N/A	N/A	N/A	
First	R3	W3	Unknown	28.22	27.56	0.66	2.35	148.31	142.35	142.35	0.00	0.00	1.75	1.75	1.72	1.72	0.03	1.74	N/A	N/A	N/A	N/A	N/A	N/A	
Second	R4	W4	Unknown	38.21	38.18	0.03	0.07	148.31	144.22	144.22	0.00	0.00	1.59	1.59	1.59	1.59	0.00	0.08	N/A	N/A	N/A	N/A	N/A	N/A	
Third	R5	W5	Unknown	39.00	38.97	0.02	0.06	100.41	98.42	98.42	0.00	0.00	2.43	2.43	2.43	2.43	0.00	0.07	N/A	N/A	N/A	N/A	N/A	N/A	
Third	R6	W6	Unknown	39.22	39.19	0.03	0.07	148.31	143.38	143.38	0.00	0.00	2.14	2.14	2.14	2.14	0.00	0.07	N/A	N/A	N/A	N/A	N/A	N/A	
107 Regent's Park Road																									
Ground	R1	W1	Unknown	20.92	19.82	1.09	5.23						0.36		0.35				N/A	N/A	N/A	N/A	N/A	N/A	
	R2	W3		22.78	21.70	1.09	4.76	372.32	349.09	340.48	8.61	2.47	2.60	2.96	2.60	2.95	0.01	0.41	N/A	N/A	N/A	N/A	N/A	N/A	
Ground	R1	W2	Unknown	30.37	30.37	0.00	0.00	41.88	40.02	40.02	0.00	0.00	2.00	2.00	1.94	1.94	0.06	2.93	55	14	55	14	0	0	
Ground	R1	W3	Unknown	35.70	34.96	0.74	2.07	87.91	33.05	33.05	0.00	0.00	0.34	0.34	0.33	0.33	0.01	3.05	N/A	N/A	N/A	N/A	N/A	N/A	
First	R2	W1	Unknown	36.09	35.30	0.79	2.18	94.47	92.47	92.47	0.00	0.00	2.48	2.48	2.44	2.44	0.05	1.86	N/A	N/A	N/A	N/A	N/A	N/A	
First	R3	W2	Unknown	34.61	33.51	1.10	3.19	24.17	23.03	23.03	0.00	0.00	1.90	1.90	1.86	1.86	0.04	1.91	N/A	N/A	N/A	N/A	N/A	N/A	
Second	R2	W3	Unknown	38.24	38.21	0.03	0.08						1.81		1.81				N/A	N/A	N/A	N/A	N/A	N/A	

Address	Room	Window	Room Use	EXISTING	PROPOSED	LOSS	%LOSS	ROOM AREA	EXISTING	PROPOSED	LOSS	%LOSS	EXISTING ADF	PROPOSED ADF	LOSS	% LOSS	EXISTING APSH		PROPOSED APSH		% TOTAL LOSS	% WINTER LOSS		
				VSC	VSC				NSC	NSC			WINDOW	WINDOW			TOTAL	TOTAL	TOTAL	WINTER			TOTAL	WINTER
	R2	W4		38.27	38.24	0.03	0.09	148.31	146.39	146.39	0.00	0.00	0.62	2.42	0.62	2.42	0.00	0.08	N/A	N/A	N/A	N/A	N/A	N/A
Second	R3	W5	Unknown	37.55	37.49	0.06	0.15	87.91	86.72	86.72	0.00	0.00	2.04	2.04	2.04	2.04	0.00	0.14	N/A	N/A	N/A	N/A	N/A	N/A
Third	R4	W6	Unknown	39.33	39.30	0.03	0.07						1.62		1.62				N/A	N/A	N/A	N/A	N/A	N/A
	R4	W7		39.34	39.31	0.03	0.08	148.31	145.95	145.95	0.00	0.00	0.63	2.25	0.63	2.25	0.00	0.07	N/A	N/A	N/A	N/A	N/A	N/A
Third	R5	W8	Unknown	38.86	38.83	0.04	0.09	87.91	86.72	86.72	0.00	0.00	2.11	2.11	2.11	2.11	0.00	0.09	N/A	N/A	N/A	N/A	N/A	N/A
105 Regent's Park Road																								
Ground	R1	W1	Unknown	35.39	33.64	1.75	4.94	101.61	86.98	86.98	0.00	0.00	0.76	0.76	0.72	0.72	0.03	4.51	N/A	N/A	N/A	N/A	N/A	N/A
Ground	R2	W2	Bathroom	25.48	17.97	7.51	29.47						0.35		0.29				N/A	N/A	N/A	N/A	N/A	N/A
	R2	W3		25.15	20.08	5.07	20.15	370.72	292.85	227.23	65.61	22.41	0.35	0.70	0.30	0.59	0.11	16.21	N/A	N/A	N/A	N/A	N/A	N/A
First	R2	W2	Unknown	36.50	35.04	1.46	3.99	148.31	144.15	144.15	0.00	0.00	1.87	1.87	1.81	1.81	0.07	3.62	N/A	N/A	N/A	N/A	N/A	N/A
Second	R3	W3	Unknown	37.72	37.66	0.06	0.16	101.61	99.59	99.59	0.00	0.00	1.89	1.89	1.88	1.88	0.00	0.16	N/A	N/A	N/A	N/A	N/A	N/A
Second	R4	W4	Unknown	38.24	38.20	0.05	0.12	148.31	144.15	144.15	0.00	0.00	1.80	1.80	1.80	1.80	0.00	0.12	N/A	N/A	N/A	N/A	N/A	N/A
Third	R5	W5	Unknown	39.03	38.99	0.04	0.10	101.61	99.59	99.59	0.00	0.00	1.95	1.95	1.95	1.95	0.00	0.10	N/A	N/A	N/A	N/A	N/A	N/A
Third	R6	W6	Unknown	39.36	39.32	0.04	0.11	148.31	144.15	144.15	0.00	0.00	1.61	1.61	1.61	1.61	0.00	0.12	N/A	N/A	N/A	N/A	N/A	N/A
103 Regent's Park Road																								
Ground	R1	W1	Unknown	19.38	16.78	2.60	13.40	26.33	14.36	14.35	0.00	0.02	1.25	1.25	1.14	1.14	0.11	8.88	N/A	N/A	N/A	N/A	N/A	N/A
First	R1	W1	Unknown	36.53	34.76	1.76	4.83	148.31	144.26	144.26	0.00	0.00	1.87	1.87	1.79	1.79	0.08	4.35	N/A	N/A	N/A	N/A	N/A	N/A
Second	R2	W2	Unknown	38.19	38.13	0.05	0.14	148.31	144.26	144.26	0.00	0.00	1.80	1.80	1.80	1.80	0.00	0.14	N/A	N/A	N/A	N/A	N/A	N/A
Second	R3	W3	Unknown	37.56	37.46	0.09	0.25	87.91	86.67	86.67	0.00	0.00	2.03	2.03	2.03	2.03	0.00	0.24	N/A	N/A	N/A	N/A	N/A	N/A
Third	R4	W4	Unknown	39.36	39.31	0.05	0.13	148.31	141.29	141.29	0.00	0.00	1.02	1.02	1.01	1.01	0.00	0.13	N/A	N/A	N/A	N/A	N/A	N/A
Third	R5	W5	Unknown	38.91	38.85	0.06	0.15	87.91	86.67	86.67	0.00	0.00	2.10	2.10	2.10	2.10	0.00	0.16	N/A	N/A	N/A	N/A	N/A	N/A
101 Regent's Park Road																								
Ground	R1	W1	Bathroom	31.33	24.75	6.59	21.02	64.31	54.16	49.39	4.78	8.82	1.04	1.04	0.87	0.87	0.17	16.39	N/A	N/A	N/A	N/A	N/A	N/A
First	R2	W2	Unknown	36.40	34.33	2.08	5.71	54.24	53.56	53.56	0.00	0.00	1.04	1.04	0.98	0.98	0.05	5.07	N/A	N/A	N/A	N/A	N/A	N/A
First	R3	W3	Unknown	36.31	34.05	2.27	6.24	90.53	89.74	89.74	0.00	0.00	2.56	2.56	2.42	2.42	0.14	5.53	N/A	N/A	N/A	N/A	N/A	N/A
Second	R3	W4	Unknown	37.49	37.39	0.10	0.27	101.61	99.59	99.59	0.00	0.00	1.87	1.87	1.87	1.87	0.00	0.26	N/A	N/A	N/A	N/A	N/A	N/A
Second	R4	W5	Unknown	38.07	38.00	0.07	0.19						0.61		0.61				N/A	N/A	N/A	N/A	N/A	N/A
	R4	W6		38.00	37.92	0.07	0.19	148.31	146.62	146.62	0.00	0.00	1.79	2.40	1.79	2.40	0.00	0.19	N/A	N/A	N/A	N/A	N/A	N/A
Third	R5	W7	Unknown	38.86	38.80	0.07	0.17	101.61	99.59	99.59	0.00	0.00	1.94	1.94	1.94	1.94	0.00	0.17	N/A	N/A	N/A	N/A	N/A	N/A
Third	R6	W8	Unknown	39.31	39.24	0.07	0.17						0.63		0.63				N/A	N/A	N/A	N/A	N/A	N/A
	R6	W9		39.25	39.18	0.07	0.18	148.31	146.15	146.15	0.00	0.00	1.61	2.24	1.61	2.24	0.00	0.19	N/A	N/A	N/A	N/A	N/A	N/A
99 Regent's Park Road																								

Address	Room	Window	Room Use	EXISTING	PROPOSED	LOSS	%LOSS	ROOM AREA	EXISTING	PROPOSED	LOSS	%LOSS	EXISTING ADF	PROPOSED ADF	LOSS	% LOSS	EXISTING APSH	PROPOSED APSH	% TOTAL	% WINTER												
				VSC	VSC				NSC	NSC			WINDOW	WINDOW			TOTAL	TOTAL			TOTAL	TOTAL	LOSS	LOSS								
Ground	R1	W1	Unknown	26.59	23.02	3.57	13.41	480.00	480.00	480.00	0.00	0.00	0.20	0.17	0.03	0.64	N/A	N/A	N/A	N/A	N/A	N/A										
	R1	W2		32.67	32.67	0.00	0.00																0.99	0.99	0.00	0.00	60	19	60	19	0	0
	R1	W3		26.20	26.20	0.00	0.00																0.59	0.59	0.00	0.00	53	20	53	20	0	0
	R1	W4		27.36	27.36	0.00	0.00																0.65	0.65	0.00	0.00	49	18	49	18	0	0
	R1	W5		27.20	27.20	0.00	0.00																0.61	0.61	0.00	0.00	46	12	46	12	0	0
	R1	W6		32.22	32.22	0.00	0.00																0.98	0.98	0.00	0.00	54	17	54	17	0	0
Ground	R2	W7	Bathroom	19.18	17.86	1.32	6.89	81.60	70.81	34.38	36.43	51.45	0.20	0.20	0.07	13.26	N/A	N/A	N/A	N/A	N/A	N/A										
	R2	W8		20.55	14.73	5.82	28.34																0.31	0.51	0.24	0.44	N/A	N/A	N/A	N/A	N/A	N/A
Ground	R3	W9	Unknown	25.11	21.58	3.53	14.06	19.58	14.51	14.51	0.00	0.02	1.12	1.12	1.02	1.02	0.10	8.60	N/A	N/A	N/A	N/A										
First	R2	W2	Unknown	35.95	33.66	2.28	6.35	148.31	144.26	144.26	0.00	0.00	1.85	1.85	1.74	1.74	0.10	5.56	N/A	N/A	N/A	N/A										
Second	R3	W3	Unknown	37.83	37.74	0.09	0.24	171.28	167.81	167.81	0.00	0.00	1.62	1.61	0.01	0.24	N/A	N/A	N/A	N/A	N/A	N/A										
	R3	W4		37.93	37.84	0.10	0.25																0.95	2.57	0.94	2.56	N/A	N/A	N/A	N/A	N/A	N/A
Second	R4	W5	Unknown	37.06	36.93	0.13	0.35	87.91	86.67	86.67	0.00	0.00	2.01	2.01	2.00	2.00	0.01	0.33	N/A	N/A	N/A	N/A										
Third	R5	W6	Unknown	39.19	39.10	0.09	0.22	171.28	167.81	167.81	0.00	0.00	1.46	1.46	0.01	0.23	N/A	N/A	N/A	N/A	N/A	N/A										
	R5	W7		39.22	39.13	0.09	0.23																0.98	2.44	0.98	2.43	N/A	N/A	N/A	N/A	N/A	N/A
Third	R6	W8	Unknown	38.60	38.51	0.10	0.26	87.91	86.67	86.67	0.00	0.00	2.09	2.09	2.08	2.08	0.01	0.26	N/A	N/A	N/A	N/A										
97 Regent's Park Road																																
Ground	R1	W1	Commercial	26.10	20.96	5.14	19.70	55.51	53.20	46.59	6.61	12.43	1.51	1.51	1.30	1.30	0.21	14.09	N/A	N/A	N/A	N/A										
Ground	R2	W2	Commercial	2.13	0.66	1.46	68.76	102.17	61.83	48.45	13.39	21.65	0.17	0.17	0.10	0.10	0.07	40.86	N/A	N/A	N/A	N/A										
First	R1	W1	Unknown	18.93	18.70	0.24	1.25	75.79	73.07	73.06	0.01	0.01	0.36	0.35	0.08	6.40	27	4	26	4	4	0										
	R1	W2		35.51	31.81	3.70	10.42																0.82	1.17	0.75	1.10	N/A	N/A	N/A	N/A	N/A	N/A
First	R3	W3	Unknown	24.11	22.84	1.28	5.29	148.31	136.79	136.79	0.00	0.00	0.70	0.70	0.68	0.68	0.03	3.67	N/A	N/A	N/A	N/A										
Second	R4	W4	Unknown	36.92	36.78	0.14	0.38	101.61	99.59	99.59	0.00	0.00	1.85	1.85	1.84	1.84	0.01	0.35	N/A	N/A	N/A	N/A										
Second	R5	W5	Unknown	37.46	37.35	0.11	0.30	148.31	144.26	144.26	0.00	0.00	1.77	1.77	1.76	1.76	0.01	0.30	N/A	N/A	N/A	N/A										
Third	R6	W6	Unknown	38.53	38.42	0.10	0.27	101.61	99.59	99.59	0.00	0.00	1.92	1.92	1.92	1.92	0.01	0.27	N/A	N/A	N/A	N/A										
Third	R7	W7	Unknown	39.04	38.93	0.11	0.28	148.31	144.26	144.26	0.00	0.00	1.60	1.60	1.60	1.60	0.00	0.29	N/A	N/A	N/A	N/A										
95 Regent's Park Road																																
First	R2	W2	Unknown	34.83	32.87	1.96	5.63	148.31	144.26	144.26	0.00	0.00	1.80	1.80	1.71	1.71	0.09	4.74	N/A	N/A	N/A	N/A										
Second	R3	W3	Unknown	37.24	37.11	0.13	0.36	148.31	144.26	144.26	0.00	0.00	1.76	1.76	1.75	1.75	0.01	0.35	N/A	N/A	N/A	N/A										
Second	R4	W4	Unknown	36.26	36.08	0.18	0.50	87.91	86.67	86.67	0.00	0.00	1.97	1.97	1.96	1.96	0.01	0.46	N/A	N/A	N/A	N/A										
Third	R5	W5	Unknown	38.97	38.85	0.12	0.30	148.31	144.26	144.26	0.00	0.00	1.60	1.60	1.59	1.59	0.00	0.30	N/A	N/A	N/A	N/A										
Third	R6	W6	Unknown	38.21	38.08	0.13	0.33	87.91	86.67	86.67	0.00	0.00	2.07	2.07	2.06	2.06	0.01	0.33	N/A	N/A	N/A	N/A										
93 Regent's Park Road																																
Ground	R1	W1	Unknown	22.21	18.53	3.68	16.58						0.83	0.74			N/A	N/A	N/A	N/A	N/A	N/A										

Address	Room	Window	Room Use	EXISTING	PROPOSED	LOSS	%LOSS	ROOM AREA	EXISTING	PROPOSED	LOSS	%LOSS	EXISTING ADF	PROPOSED ADF	LOSS	% LOSS	EXISTING APSH	PROPOSED APSH	% TOTAL	% WINTER				
				VSC	VSC				NSC	NSC			WINDOW	WINDOW			TOTAL	TOTAL			TOTAL	WINTER	TOTAL	WINTER
	R1	W2		27.56	27.56	0.00	0.00	423.95	383.72	363.86	19.86	5.18	2.91	3.74	2.91	3.65	0.09	2.37	52	14	52	14	0	0
First	R2	W2	Unknown	32.68	27.32	5.37	16.42	54.56	52.53	52.50	0.03	0.05	0.44		0.38		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	W3		31.96	26.39	5.57	17.43						1.56	2.00	1.35	1.73	0.27	13.53	N/A	N/A	N/A	N/A	N/A	N/A
First	R3	W4	Unknown	34.12	32.16	1.96	5.74	148.31	141.98	141.47	0.51	0.36	1.77	1.77	1.68	1.68	0.08	4.75	N/A	N/A	N/A	N/A	N/A	N/A
Second	R4	W5	Unknown	36.02	35.78	0.24	0.66	101.61	99.59	99.59	0.00	0.00	1.81	1.81	1.80	1.80	0.01	0.58	N/A	N/A	N/A	N/A	N/A	N/A
Second	R5	W6	Unknown	36.65	36.57	0.08	0.22	148.31	144.26	144.26	0.00	0.00	1.73	1.73	1.73	1.73	0.00	0.20	N/A	N/A	N/A	N/A	N/A	N/A
Third	R6	W7	Unknown	38.11	37.97	0.13	0.35	101.61	99.59	99.59	0.00	0.00	1.90	1.90	1.90	1.90	0.01	0.34	N/A	N/A	N/A	N/A	N/A	N/A
Third	R7	W8	Unknown	38.84	38.71	0.12	0.32	148.31	144.26	144.26	0.00	0.00	1.59	1.59	1.59	1.59	0.01	0.32	N/A	N/A	N/A	N/A	N/A	N/A
91 Regent's Park Road																								
First	R1	W1	Unknown	34.19	33.30	0.89	2.61	168.78	161.54	161.54	0.00	0.00	1.66	1.66	1.63	1.63	0.04	2.22	N/A	N/A	N/A	N/A	N/A	N/A
First	R2	W2	Unknown	34.26	33.80	0.46	1.34	89.61	84.35	84.35	0.00	0.00	0.63	0.63	0.62	0.62	0.01	1.10	N/A	N/A	N/A	N/A	N/A	N/A
Second	R3	W3	Unknown	37.09	37.02	0.07	0.19	168.78	160.20	160.20	0.00	0.00	1.15	1.15	1.15	1.15	0.00	0.19	N/A	N/A	N/A	N/A	N/A	N/A
Second	R4	W4	Unknown	36.97	36.90	0.07	0.19	89.61	84.95	84.95	0.00	0.00	0.66	0.66	0.66	0.66	0.00	0.17	N/A	N/A	N/A	N/A	N/A	N/A
Third	R5	W5	Unknown	38.81	38.71	0.10	0.26	168.78	161.42	161.42	0.00	0.00	1.20	1.20	1.20	1.20	0.00	0.27	N/A	N/A	N/A	N/A	N/A	N/A
Third	R6	W6	Unknown	38.79	38.69	0.10	0.25	89.61	85.54	85.54	0.00	0.00	0.69	0.69	0.69	0.69	0.00	0.25	N/A	N/A	N/A	N/A	N/A	N/A

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	TOTAL APSH	WINTER APSH	
B1	Ground	R1	W1-L	Bedroom	0.04		N/A	N/A
			W1-U	Bedroom	0.82			
			W2-L	Bedroom	0.03		N/A	N/A
			W2-U	Bedroom	0.80	1.69		
Ground	R2	W3-L	Living room	0.02		N/A	N/A	
		W3-U	Living room	0.51				
		W4-L	Living room	0.02		N/A	N/A	
		W4-U	Living room	0.55				
		W5-L	Living room	0.02		N/A	N/A	
		W5-U	Living room	0.61				
		W6	Living room	0.42		38	5	
		W7	Living room	0.42		38	5	
		W8	Living room	0.41		38	5	
		W9	Living room	0.41	3.38	37	4	
Ground	R3	W10-L	Kitchen	0.06		N/A	N/A	
		W10-U	Kitchen	1.65				
		W11-L	Kitchen	0.06		N/A	N/A	
		W11-U	Kitchen	1.66	3.43			
First	R1	W1-L	Living room	0.04		N/A	N/A	
		W1-U	Living room	0.49				
		W2-L	Living room	0.03		N/A	N/A	
		W2-U	Living room	0.44				
		W3-L	Living room	0.03		N/A	N/A	
		W3-U	Living room	0.46				
		W4-L	Living room	0.00		31	6	
		W4-U	Living room	0.13				
		W5-L	Living room	0.01		48	12	
		W5-U	Living room	0.39				
		W6-L	Living room	0.00		31	6	
		W6-U	Living room	0.13	2.15			
First	R2	W7-L	Kitchen	0.01		N/A	N/A	
		W7-U	Kitchen	1.68	1.69			
First	R3	W8-L	Kitchen	0.01		N/A	N/A	
		W8-U	Kitchen	2.44	2.45			
First	R4	W9-L	Bedroom	0.01		33	7	
		W9-U	Bedroom	0.25				
		W10-L	Bedroom	0.02		49	12	
		W10-U	Bedroom	0.75				
		W11-L	Bedroom	0.01		31	6	
		W11-U	Bedroom	0.24	1.27			
First	R5	W12-L	Bedroom	0.02		49	12	
		W12-U	Bedroom	1.43				
		W13-L	Bedroom	0.02		49	12	
		W13-U	Bedroom	1.43	2.89			
First	R6	W14-L	Bedroom	0.02		48	12	
		W14-U	Bedroom	1.42				
		W15-L	Bedroom	0.02		48	12	
		W15-U	Bedroom	1.42	2.88			
Second	R1	W1-L	Living room	0.05		N/A	N/A	
		W1-U	Living room	0.68				
		W2-L	Living room	0.05		N/A	N/A	
		W2-U	Living room	0.68				
		W3-L	Living room	0.05		N/A	N/A	
		W3-U	Living room	0.68				
		W4-L	Living room	0.00		38	12	
		W4-U	Living room	0.13				
		W5-L	Living room	0.01		56	19	
		W5-U	Living room	0.52				
		W6-L	Living room	0.00		38	12	
		W6-U	Living room	0.13	2.97			
Second	R2	W7-L	Kitchen	0.01		N/A	N/A	
		W7-U	Kitchen	1.42				
		W8-L	Kitchen	0.01		N/A	N/A	
		W8-U	Kitchen	1.39	2.83			
Second	R3	W9-L	Bedroom	0.01		39	13	
		W9-U	Bedroom	0.24				
		W10-L	Bedroom	0.02		56	19	
		W10-U	Bedroom	0.98				
		W11-L	Bedroom	0.01		38	12	
		W11-U	Bedroom	0.24	1.49			
Second	R4	W12-L	Bedroom	0.03		55	19	
		W12-U	Bedroom	1.29				
		W13-L	Bedroom	0.03		55	19	
		W13-U	Bedroom	1.29	2.64			
Second	R5	W14-L	Bedroom	0.03		55	19	
		W14-U	Bedroom	1.29				
		W15-L	Bedroom	0.03		55	19	

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	TOTAL APSH	WINTER APSH
		W15-U	Bedroom	1.29	2.64		