

# Kensington Forum

QUEENSGATE  
INVESTMENTS

Rockwell



Kensington Forum Hotel – London

INTERNAL DAYLIGHT ASSESSMENT | APRIL 2019



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KENSINGTON FORUM HOTEL

Daylight and Sunlight

Amenity within the

Proposed Development

*Overshadowing*

• *Daylight & Sunlight* • *Light Pollution* •

*Solar Glare* • *Daylight Design*

DIRECTOR: BARRY HOOD  
CLIENT: ROCKWELL  
DATE: APRIL 2019  
VERSION: PLANNING  
PROJECT: P813

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## Appendices

### Appendix A

- Summary Sheets
- ADF Room Layout Plans

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- Daylight Data
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## 1 Executive Summary

- 1.1 This report relates to the levels of daylight and sunlight amenity within the residential units of the Proposed Development.
- 1.2 There is full technical analysis contained at the rear of this report in Appendix B.
- 1.3 In summary, 86% of the residential units which have been modelled and analysed will meet or exceed BRE and British Standards recommended levels of daylight amenity. Several rooms (9 out of 172) are very close to satisfying guidance and through detailed design could be improved. Should that be the case then 157 out of 172 rooms would meet guidance raising compliance to 91%.
- 1.4 In Sunlight terms 52% of the residential rooms will satisfy BRE guidance. However, a higher proportion of the most important rooms which contain a living room component will meet sunlight guidance (76% of all living / kitchen / diners and 100% of all living / diners). Therefore, where sunlight is expected there is a higher level of compliance.

## 2 Methodology

### Daylight

#### *Average Daylight Factor*

- 2.1 The Average Daylight Factor (ADF) method of assessment, which is set out in the Building Research Establishment Guidelines 'Site Layout Planning for Daylight and Sunlight 2011: A Guide to Good Practice' (the BRE Guidelines), is derived from British Standard (BS) 8206-2 (BS 8026). It is a complex and representative calculation to determine the natural internal luminance (daylight) in an area.
- 2.2 ADF is defined in the BRE Guidelines as:

*“A ratio of total daylight flux incident on a reference area to the total area of the reference area, expressed as a percentage of outdoor luminance on a horizontal plane, due to an unobstructed sky of assumed or known luminance distribution”.*
- 2.3 This daylight assessment method considers the diffuse visible transmittance of the glazing to the room in question (i.e. how much light gets through the window glass); the net glazed area of the window in question; the total area of the room surfaces (ceiling, walls, floor and windows); and the angle of visible sky reaching the window/windows in question. It also makes allowance for the average reflectance of the internal surfaces of the room. The BRE Guidelines and BS8206 recommend that for a light-coloured room an internal reflectance value of 0.5 can be assumed.
- 2.4 The BRE Guidelines and BS 8026 provide for minimum levels of ADF being:
  - Bedroom - 1%
  - Living room - 1.5%
  - Kitchen 2%
- 2.5 Where a room serves more than one purpose the minimum ADF should be for the room type with the highest value.

## Sunlight

### *Annual Probable Sunlight Hours*

2.6 For new residential properties, the BRE Guidelines state in Section 3.1.15 that:

*“...a dwelling...will appear reasonably well sunlit provided at least one main window wall faces within 90° of due south and the centre of at least one window to a main living room can receive 25% of annual probable sunlight hours including at least 5% of annual probable sunlight hours in the winter months...”*

2.7 It is acknowledged that it is difficult to meet the above criteria in urban locations and, as such, the BRE recommends in Section 3.1.16 that:

*“...site layout design should aim to maximise the number of dwellings with a main living room that meets the above recommendations”*

2.8 At Section 3.1.12 the BRE states that:

*“If a room has multiple windows on the same wall or adjacent walls, the highest value of APSH should be taken. If a room has two windows on opposite walls, the APSH due to each can be added together.”*

### **Three-Dimensional Model**

2.9 Each of the daylight, sunlight and shadow methods described above has been implemented using specialist computer software applied to a three-dimensional AutoCAD model.

2.10 The model, which is orientated to the north, enables the path of the sun to be tracked throughout the year to establish a shadow cast by the existing buildings and the proposed development and thus to calculate the shadow cast on open spaces.

## **3 Proposed Accommodation**

### **Daylight**

3.1 Full and detailed analysis can be found at Appendix A, of this report. Annotated floor layout plans are also provided (numbered: P656/INT/40-48) to show both the locations and configuration of the rooms which have been analysed.

3.2 There are 172 habitable rooms which have been analysed within the proposed development of the 172 analysed rooms are fully BRE and BS8206-02 compliant in that they achieve at least the minimum ADF levels recommended for their specific room usage. Many of the rooms actually achieve substantially in excess of the required levels.

3.3 There are 9 rooms which are close to satisfying BRE Guidance and which could be developed further at detail design stage. Should that be the case then 157 out of 172 would be able to meet or exceed daylight guidance which equates to 91%.

3.4 The precise level of compliance across the scheme is summarised in tables at Appendix A.

## Sunlight

- 3.5 Full and detailed analysis can be found at Appendix A, of this report.
- 3.6 There are 172 rooms which contain some, ore all windows, which are material for sunlight assessment. Of these 90 rooms (52%) will satisfy BRE Guidance. This figure is distorted somewhat by the high proportion of bedrooms (110 of the total 172 rooms). The design has responded to optimise sunlight to rooms with a living room component and hence 43 out of 56 (76%) living / kitchen/ diners satisfy sunlight guidance, and 6 out of 6 (100%) of living / diners satisfy sunlight guidance.
- 3.7 The precise level of compliance across the scheme is summarised in tables at Appendix A.

## 4 Conclusion

- 4.1 There is full technical analysis contained in this report as: i) summary data (Appendix A); ii) full data (Appendix B); iii) Room plots (Appendix A), to assist the reader.
- 4.2 In summary, 86% of the residential units which have been modelled and analysed will meet or exceed BRE and British Standards recommended levels of daylight amenity. Several rooms (9 out of 172) are very close to satisfying guidance and through detailed design could be improved. Should that be the case then 157 out of 172 rooms would meet guidance raising compliance to 91%.
- 4.3 In Sunlight terms 52% of the residential rooms will satisfy BRE guidance. However, a higher proportion of the most important rooms which contain a living room component will meet sunlight guidance (76% of all living / kitchen / diners and 100% of all living / diners). Therefore, where sunlight is expected there is a higher level of compliance.

# Appendix A

# Summary Sheets

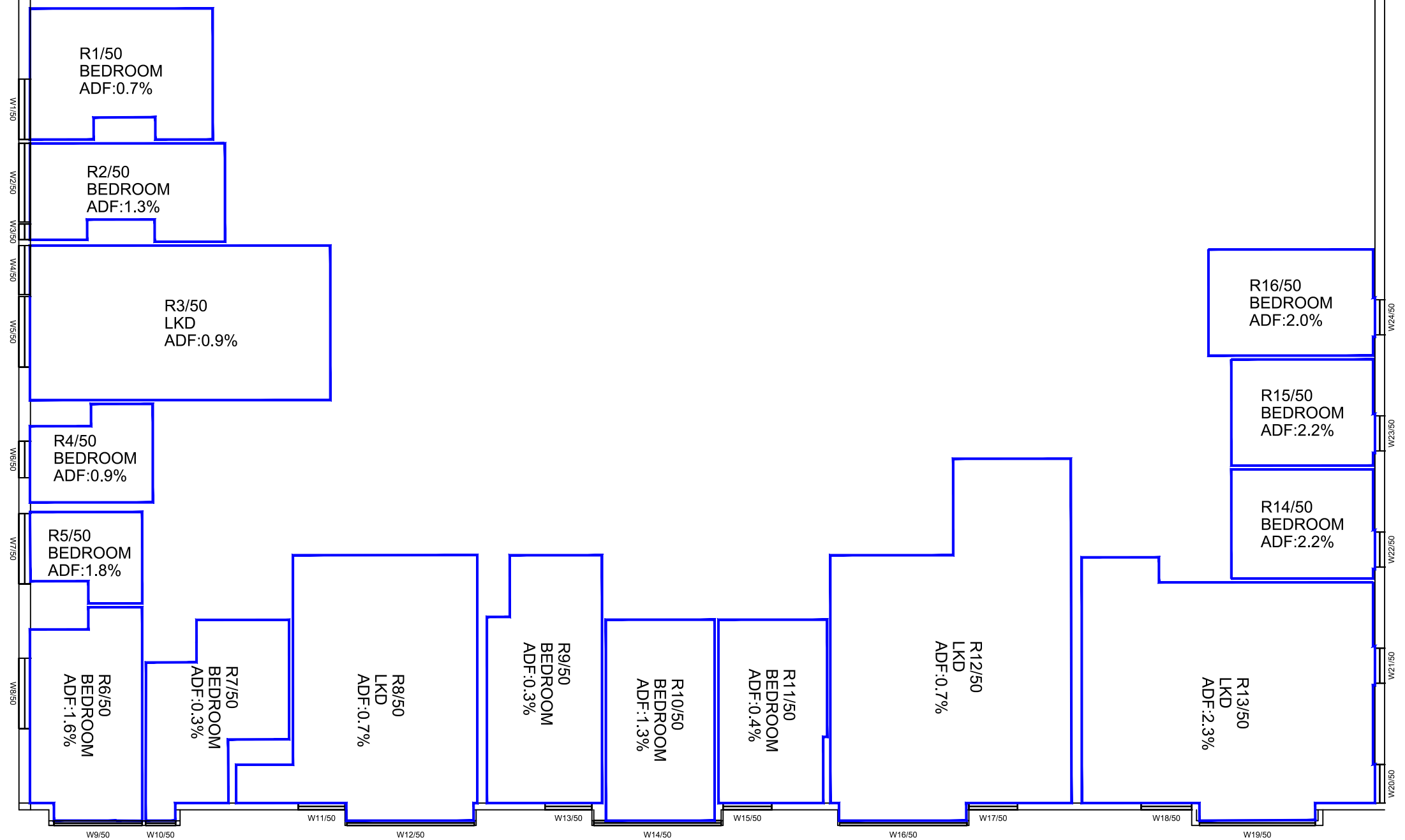
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<b>Proposed Scheme Kensington Forum</b>	172	148	6	6	56	42	110	100	86.0	100.0	75.0	90.9



Room	ALL ROOMS	ALL PASSES	LKD ROOMS	LKD PASSES	LD ROOMS	LD PASSES	BEDROOM ROOMS	BEDROOM PASSES	ALL %PASS	LKD %PASS	LD %PASS	BEDROOM %PASS
Proposed Scheme	172	90	56	43	6	6	110	41	52.3	76.8	100.0	37.3



# ADF Room Layout Plans



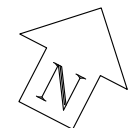
Ground Floor - Mezzanine

Sources: Point2 Surveyors:  
Site Photos  
Point Cloud Data

Ordnance Survey:  
OS Map  
Zmap

SimpsonHaugh and Partners:  
Received 03/12/18  
10061-Z0-G200-3-AL-Detailed Model.dwg  
10106-A-DRG-Z0-G100-4000(0-3).dwg's Elevations  
10106-A-DRG-Z0-G200-2000(00-31).dwg's Plans

Key:



Project: Kensington Forum Hotel

Title: ADF Results and Room Layouts  
Proposed Scheme 03/12/18

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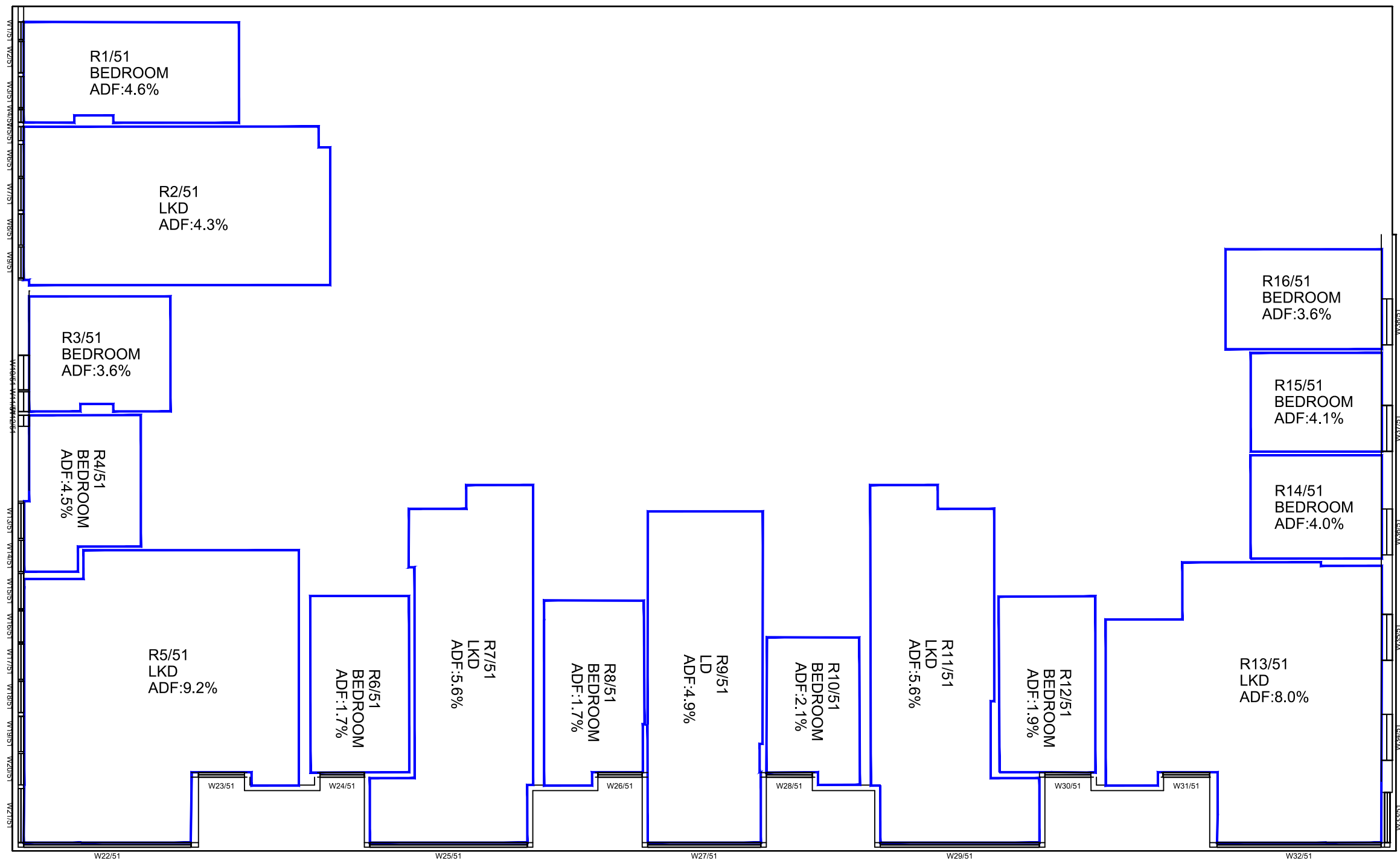
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Scale: 1:125@A3

Date: DEC 2018

Dwg No: **P813/INT/40**





1st Floor

Sources: Point2 Surveyors:  
 Site Photos  
 Point Cloud Data

Ordnance Survey:  
 OS Map  
 Zmap

SimpsonHaugh and Partners:  
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 10061-Z0-G200-3-AL-Detailed Model.dwg  
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Drawn By: SA/CJ

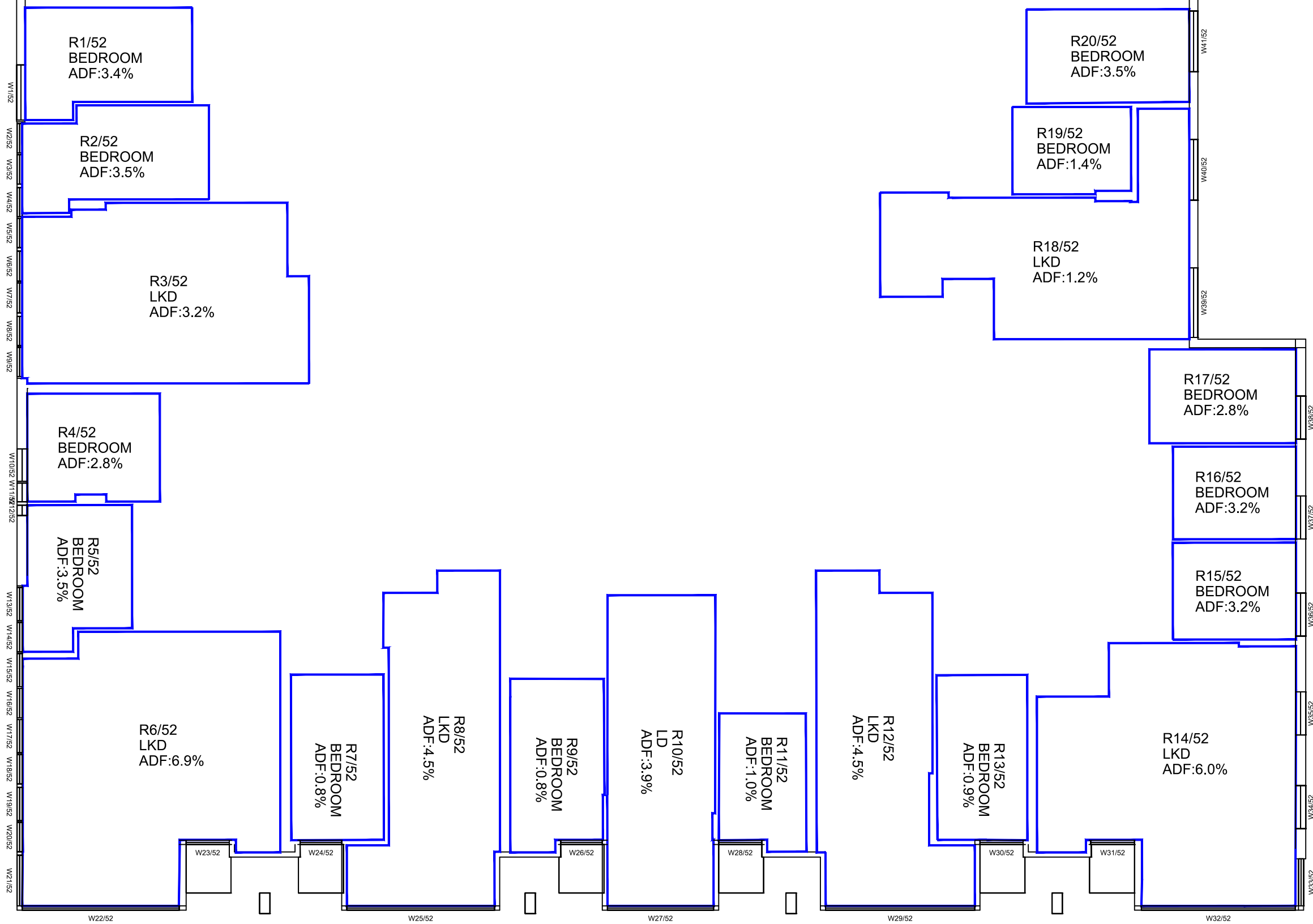
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2nd Floor

Sources: Point2 Surveyors:  
Site Photos  
Point Cloud Data

Ordnance Survey:  
OS Map  
Zmap

SimpsonHaugh and Partners:  
Received 03/12/18  
10061-Z0-G200-3-AL-Detailed Model.dwg  
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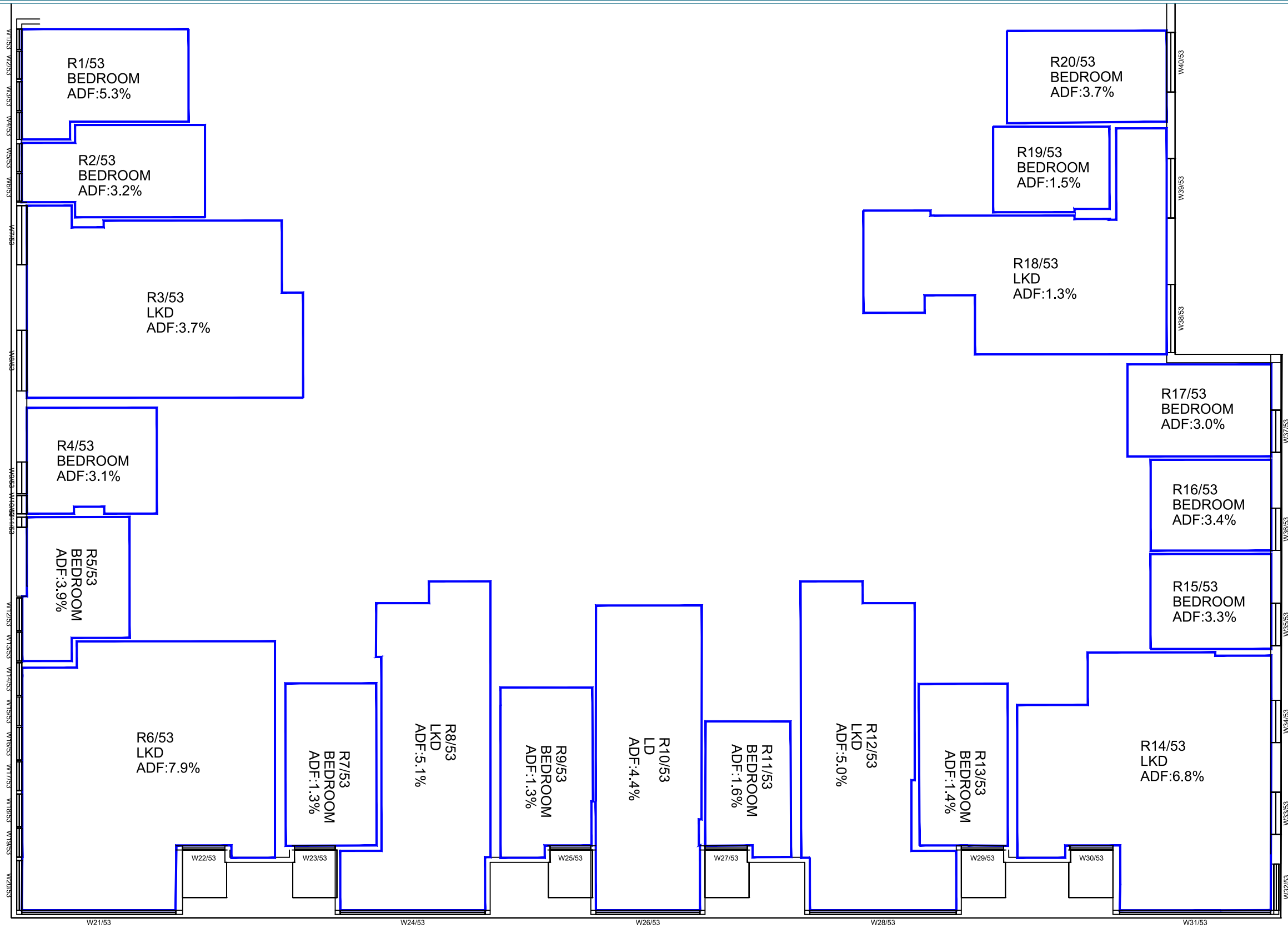
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Date: DEC 2018

Dwg No: **P813/INT/42**





3rd Floor

Sources: Point2 Surveyors:  
Site Photos  
Point Cloud Data

Ordnance Survey:  
OS Map  
Zmap

SimpsonHaugh and Partners:  
Received 03/12/18  
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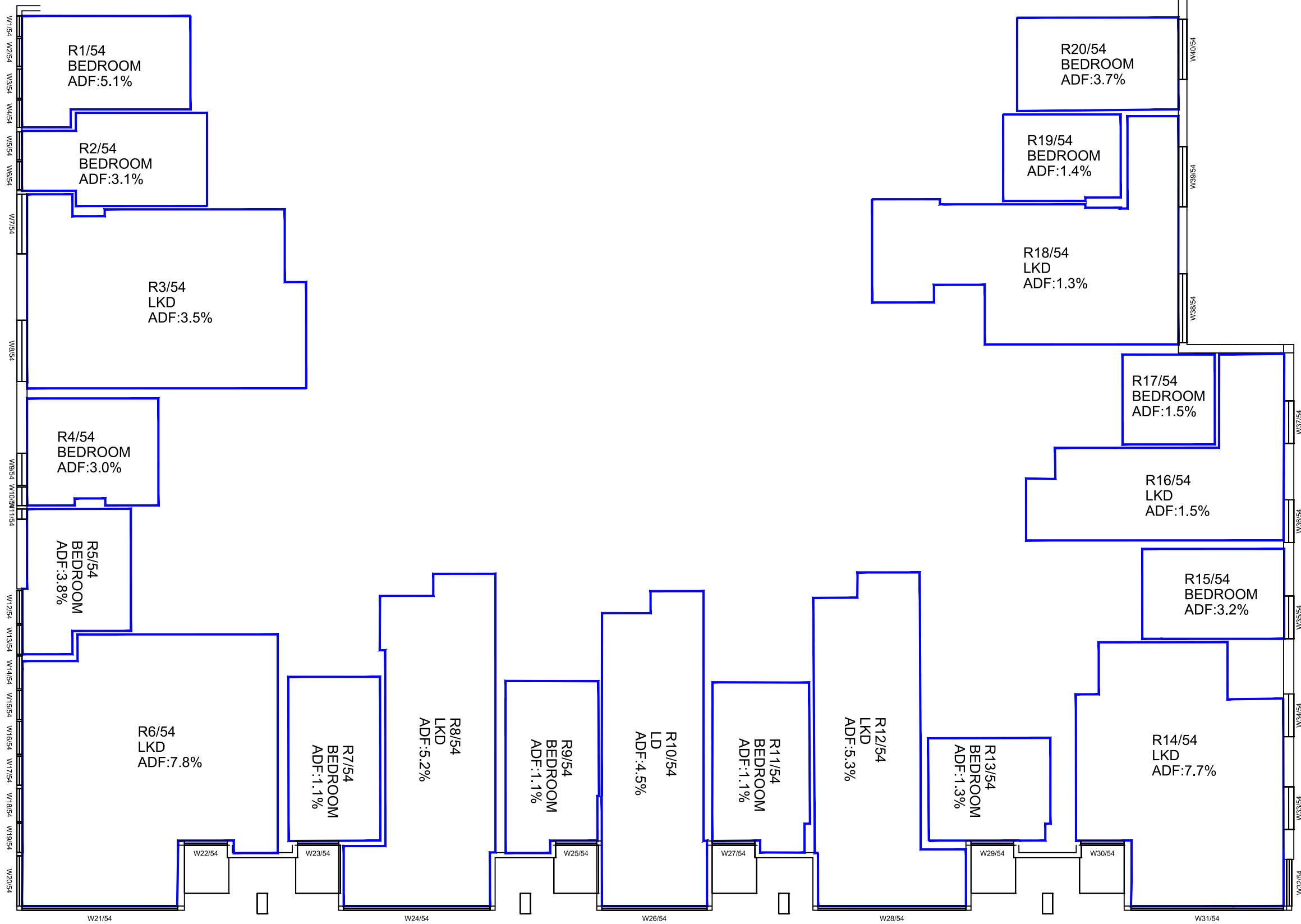
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Date: DEC 2018

Dwg No: **P813/INT/43**





4th Floor

Sources: Point2 Surveyors:  
Site Photos  
Point Cloud Data

Ordnance Survey:  
OS Map  
Zmap

SimpsonHaugh and Partners:  
Received 03/12/18  
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Key:



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Title: ADF Results and Room Layouts  
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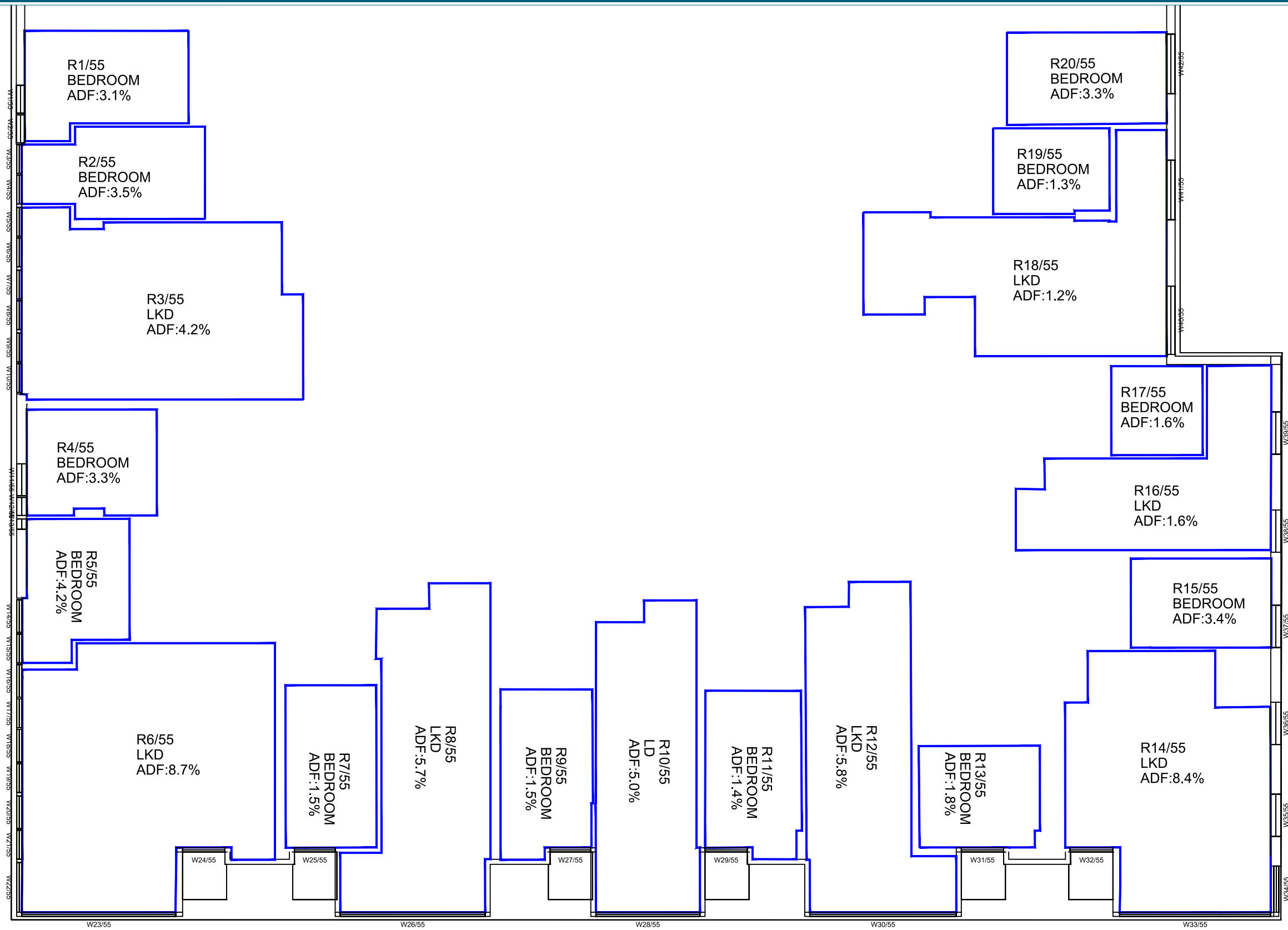
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Date: DEC 2018

Dwg No: **P813/INT/44**





5th Floor

Sources: Point2 Surveyors:  
Site Photos  
Point Cloud Data

Ordnance Survey:  
OS Map  
Zmap

SimpsonHaugh and Partners:  
Received 03/12/18  
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Key:



Project: Kensington Forum Hotel

Title: ADF Results and Room Layouts  
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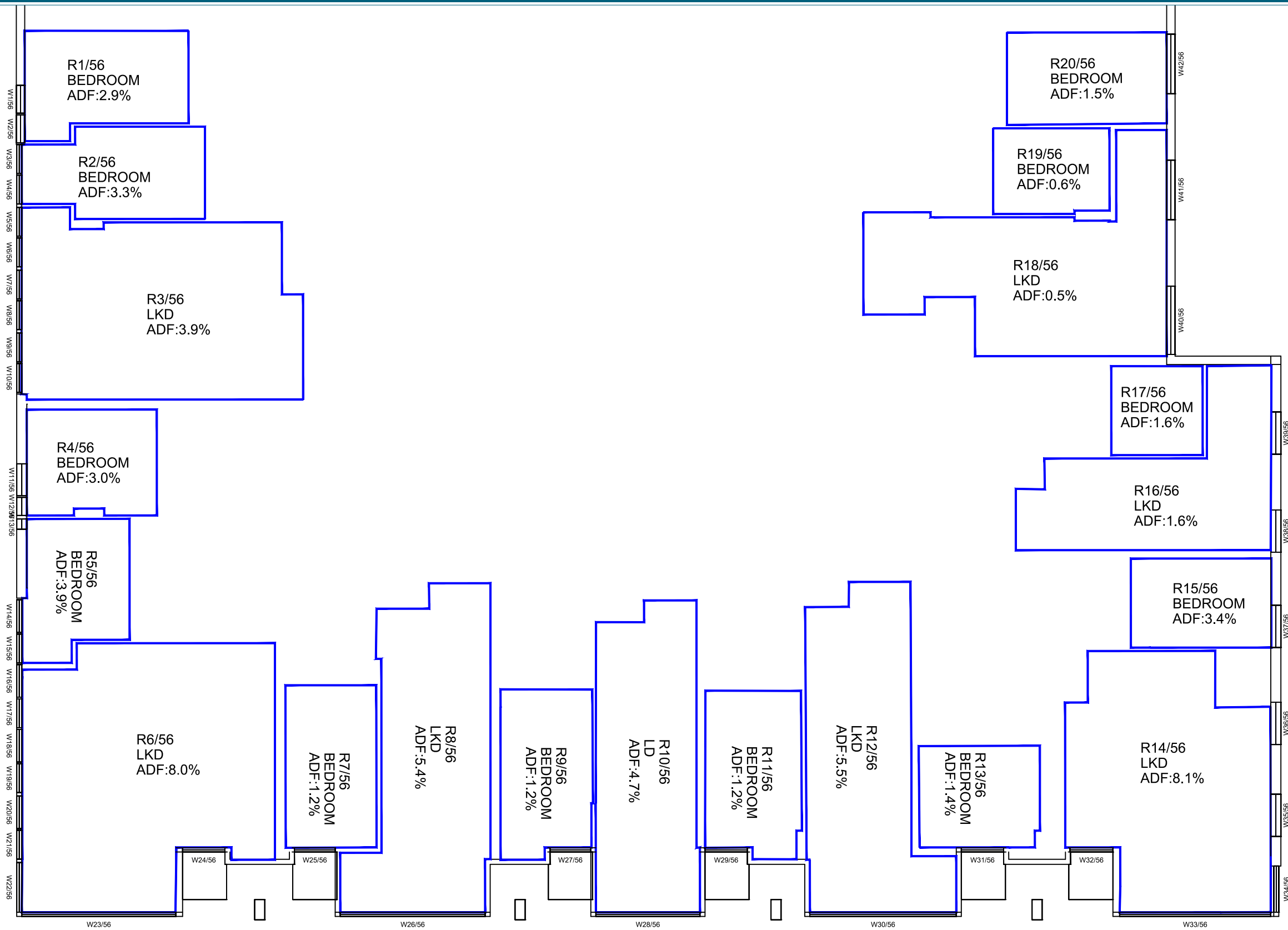
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Scale: 1:125@A3

Date: DEC 2018

Dwg No: **P813/INT/45**





6th Floor

Sources: Point2 Surveyors:  
 Site Photos  
 Point Cloud Data

Ordnance Survey:  
 OS Map  
 Zmap

SimpsonHaugh and Partners:  
 Received 03/12/18  
 10061-Z0-G200-3-AL-Detailed Model.dwg  
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 10106-A-DRG-Z0-G200-2000(00-31).dwg's Plans



Project: Kensington Forum Hotel

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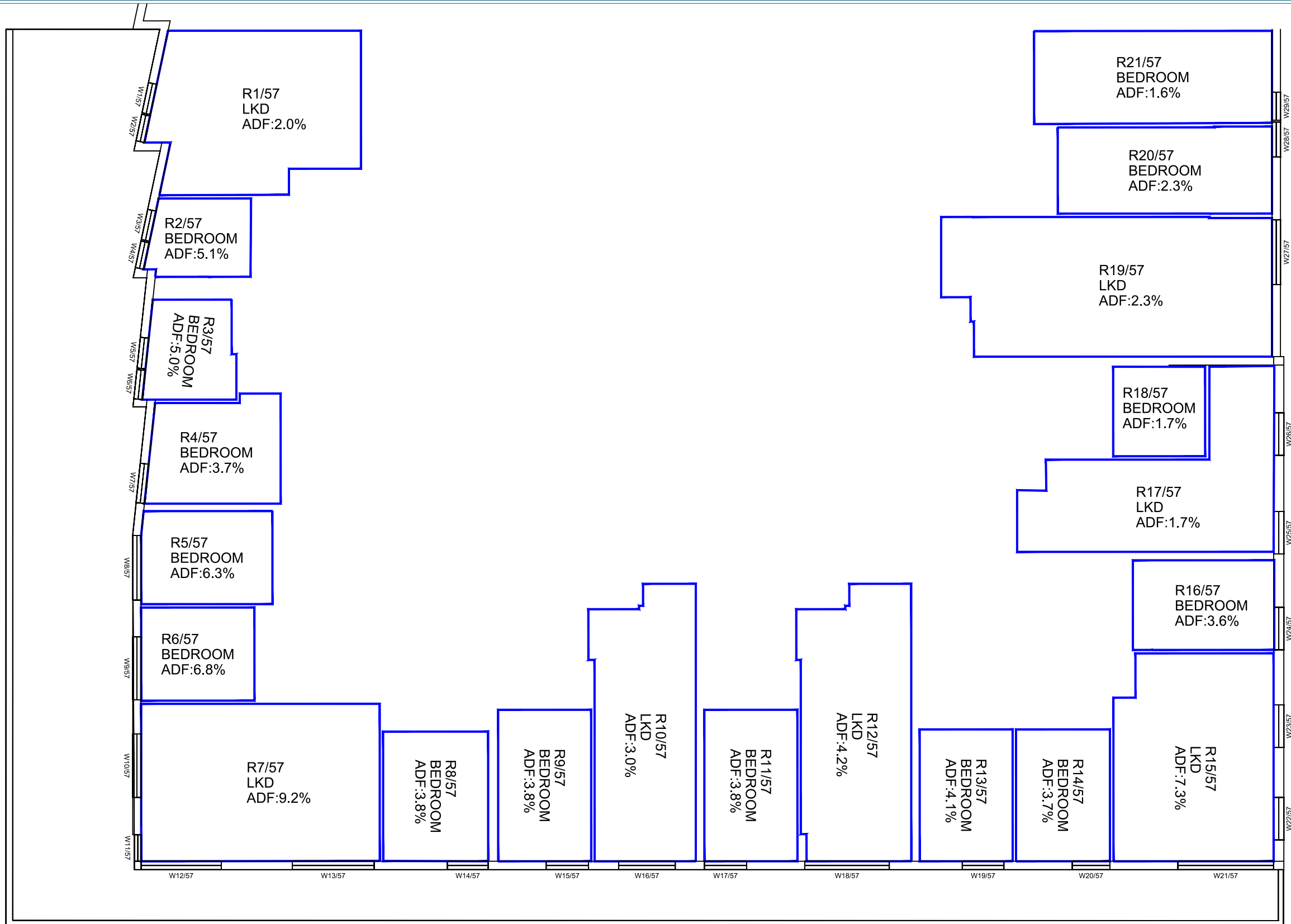


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Scale: 1:125@A3

Date: DEC 2018

Dwg No: **P813/INT/46**



7th Floor

Sources: Point2 Surveyors:  
Site Photos  
Point Cloud Data

Ordnance Survey:  
OS Map  
Zmap

SimpsonHaugh and Partners:  
Received 03/12/18  
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Project: Kensington Forum Hotel

Title: ADF Results and Room Layouts  
Proposed Scheme 03/12/18

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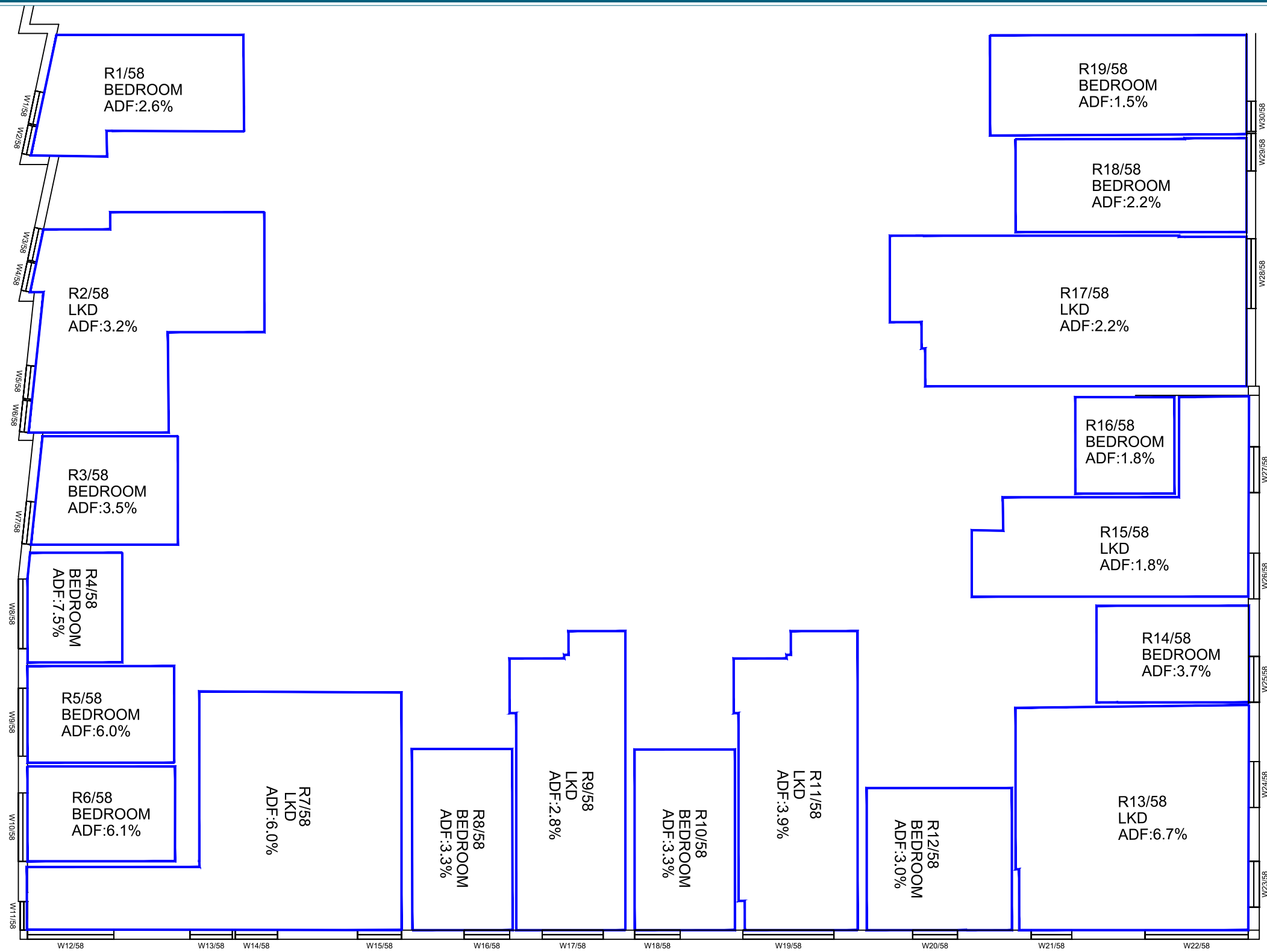
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Scale: 1:125@A3

Date: DEC 2018

Dwg No: **P813/INT/47**





8th Floor

Sources: Point2 Surveyors:  
Site Photos  
Point Cloud Data

Ordnance Survey:  
OS Map  
Zmap

SimpsonHaugh and Partners:  
Received 03/12/18  
10061-Z0-G200-3-AL-Detailed Model.dwg  
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Key:



Project: Kensington Forum Hotel

Title: ADF Results and Room Layouts  
Proposed Scheme 03/12/18

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Date: DEC 2018

Dwg No: **P813/INT/48**



# Appendix B

# Daylight Data



Room	Roomuse	Flat	Window	VSC(%)	ADF(%)	TOTAL ADF(%)
<b>Proposed Scheme</b>						
R1/50	BEDROOM		W1/50	6.23	0.72	0.72
R2/50	BEDROOM		W2/50	6.39	1.06	
R2/50	BEDROOM		W3/50	6.58	0.20	1.26
R3/50	LKD		W4/50	6.73	0.37	
R3/50	LKD		W5/50	6.86	0.55	0.93
R4/50	BEDROOM		W6/50	6.98	0.91	0.91
R5/50	BEDROOM		W7/50	6.97	1.78	1.78
R6/50	BEDROOM		W8/50	7.03	0.89	
R6/50	BEDROOM		W9/50	5.94	0.66	1.56
R7/50	BEDROOM		W10/50	5.92	0.27	0.27
R8/50	LKD		W11/50	2.27	0.11	
R8/50	LKD		W12/50	5.83	0.56	0.68
R9/50	BEDROOM		W13/50	2.32	0.29	0.29
R10/50	BEDROOM		W14/50	5.87	1.25	1.25
R11/50	BEDROOM		W15/50	2.40	0.44	0.44
R12/50	LKD		W16/50	5.93	0.57	
R12/50	LKD		W17/50	2.54	0.16	0.73
R13/50	LKD		W18/50	3.16	0.23	
R13/50	LKD		W19/50	7.00	0.78	
R13/50	LKD		W20/50	24.23	0.68	
R13/50	LKD		W21/50	24.17	0.62	2.31
R14/50	BEDROOM		W22/50	23.94	2.23	2.23
R15/50	BEDROOM		W23/50	23.72	2.25	2.25
R16/50	BEDROOM		W24/50	23.48	2.00	2.00
R1/51	BEDROOM		W1/51	31.36	0.57	
R1/51	BEDROOM		W2/51	32.09	2.16	
R1/51	BEDROOM		W3/51	32.26	1.07	
R1/51	BEDROOM		W4/51	32.29	0.75	4.56
R2/51	LKD		W5/51	32.28	0.49	
R2/51	LKD		W6/51	32.33	0.64	
R2/51	LKD		W7/51	32.34	1.28	
R2/51	LKD		W8/51	32.36	0.62	
R2/51	LKD		W9/51	32.38	1.24	4.26
R3/51	BEDROOM		W10/51	32.40	2.92	
R3/51	BEDROOM		W11/51	32.42	0.72	3.64
R4/51	BEDROOM		W12/51	32.40	0.29	
R4/51	BEDROOM		W13/51	32.37	1.52	
R4/51	BEDROOM		W14/51	32.35	2.66	4.47

Room	Roomuse	Flat	Window	VSC(%)	ADF(%)	TOTAL ADF(%)
R5/51	LKD		W15/51	32.34	0.43	
R5/51	LKD		W16/51	32.36	0.76	
R5/51	LKD		W17/51	32.36	0.43	
R5/51	LKD		W18/51	32.35	0.76	
R5/51	LKD		W19/51	32.32	0.43	
R5/51	LKD		W20/51	32.27	0.76	
R5/51	LKD		W21/51	32.25	1.34	
R5/51	LKD		W22/51	27.73	3.76	
R5/51	LKD		W23/51	10.53	0.50	9.17
R6/51	BEDROOM		W24/51	10.51	1.75	1.75
R7/51	LKD		W25/51	27.67	5.65	5.65
R8/51	BEDROOM		W26/51	9.42	1.71	1.71
R9/51	LD		W27/51	27.64	4.88	4.88
R10/51	BEDROOM		W28/51	9.30	2.08	2.08
R11/51	LKD		W29/51	27.58	5.62	5.62
R12/51	BEDROOM		W30/51	10.86	1.90	1.90
R13/51	LKD		W31/51	11.22	0.58	
R13/51	LKD		W32/51	28.29	4.19	
R13/51	LKD		W33/51	26.66	1.19	
R13/51	LKD		W34/51	26.74	1.04	
R13/51	LKD		W35/51	26.54	1.03	8.02
R14/51	BEDROOM		W36/51	26.40	4.02	4.02
R15/51	BEDROOM		W37/51	26.17	4.09	4.09
R16/51	BEDROOM		W38/51	25.91	3.59	3.59
R1/52	BEDROOM		W1/52	33.09	3.44	3.44
R2/52	BEDROOM		W2/52	33.22	0.86	
R2/52	BEDROOM		W3/52	33.21	1.73	
R2/52	BEDROOM		W4/52	33.25	0.86	3.45
R3/52	LKD		W5/52	33.24	0.80	
R3/52	LKD		W6/52	33.29	0.41	
R3/52	LKD		W7/52	33.33	0.82	
R3/52	LKD		W8/52	33.55	0.40	
R3/52	LKD		W9/52	33.87	0.81	3.25
R4/52	BEDROOM		W10/52	34.12	2.20	
R4/52	BEDROOM		W11/52	34.14	0.55	2.76
R5/52	BEDROOM		W12/52	34.13	0.22	
R5/52	BEDROOM		W13/52	34.11	1.19	
R5/52	BEDROOM		W14/52	34.09	2.09	3.51
R6/52	LKD		W15/52	34.09	0.33	
R6/52	LKD		W16/52	34.09	0.58	
R6/52	LKD		W17/52	34.10	0.33	
R6/52	LKD		W18/52	34.09	0.58	
R6/52	LKD		W19/52	34.07	0.33	

Room	Roomuse	Flat	Window	VSC(%)	ADF(%)	TOTAL ADF(%)
R6/52	LKD		W20/52	34.04	0.58	
R6/52	LKD		W21/52	34.06	1.01	
R6/52	LKD		W22/52	31.11	3.00	
R6/52	LKD		W23/52	5.54	0.22	6.94
R7/52	BEDROOM		W24/52	5.54	0.79	0.79
R8/52	LKD		W25/52	31.04	4.51	4.51
R9/52	BEDROOM		W26/52	5.19	0.77	0.77
R10/52	LD		W27/52	30.97	3.86	3.86
R11/52	BEDROOM		W28/52	5.23	0.97	0.97
R12/52	LKD		W29/52	30.81	4.46	4.46
R13/52	BEDROOM		W30/52	5.60	0.86	0.86
R14/52	LKD		W31/52	5.95	0.26	
R14/52	LKD		W32/52	31.08	3.27	
R14/52	LKD		W33/52	28.59	0.92	
R14/52	LKD		W34/52	28.68	0.79	
R14/52	LKD		W35/52	28.46	0.79	6.03
R15/52	BEDROOM		W36/52	28.29	3.15	3.15
R16/52	BEDROOM		W37/52	28.05	3.22	3.22
R17/52	BEDROOM		W38/52	27.78	2.79	2.79
R18/52	LKD		W39/52	15.52	1.20	1.20
R19/52	BEDROOM		W40/52	24.16	1.37	1.37
R20/52	BEDROOM		W41/52	25.12	3.49	3.49
R1/53	BEDROOM		W1/53	36.03	0.66	
R1/53	BEDROOM		W2/53	36.01	1.88	
R1/53	BEDROOM		W3/53	36.05	0.97	
R1/53	BEDROOM		W4/53	36.04	1.82	5.34
R2/53	BEDROOM		W5/53	36.06	1.07	
R2/53	BEDROOM		W6/53	36.05	2.11	3.18
R3/53	LKD		W7/53	36.08	1.84	
R3/53	LKD		W8/53	36.15	1.89	3.73
R4/53	BEDROOM		W9/53	36.19	2.48	
R4/53	BEDROOM		W10/53	36.20	0.61	3.09
R5/53	BEDROOM		W11/53	36.19	0.24	
R5/53	BEDROOM		W12/53	36.19	1.33	
R5/53	BEDROOM		W13/53	36.16	2.33	3.89
R6/53	LKD		W14/53	36.17	0.37	
R6/53	LKD		W15/53	36.17	0.64	
R6/53	LKD		W16/53	36.18	0.37	
R6/53	LKD		W17/53	36.16	0.64	
R6/53	LKD		W18/53	36.16	0.37	

Room	Roomuse	Flat	Window	VSC(%)	ADF(%)	TOTAL ADF(%)
R6/53	LKD		W19/53	36.14	0.64	
R6/53	LKD		W20/53	36.12	1.14	
R6/53	LKD		W21/53	34.03	3.40	
R6/53	LKD		W22/53	11.16	0.37	7.92
R7/53	BEDROOM		W23/53	11.13	1.31	1.31
R8/53	LKD		W24/53	33.90	5.10	5.10
R9/53	BEDROOM		W25/53	9.89	1.28	1.28
R10/53	LD		W26/53	33.83	4.37	4.37
R11/53	BEDROOM		W27/53	9.87	1.60	1.60
R12/53	LKD		W28/53	33.62	5.05	5.05
R13/53	BEDROOM		W29/53	11.24	1.41	1.41
R14/53	LKD		W30/53	11.64	0.43	
R14/53	LKD		W31/53	33.66	3.69	
R14/53	LKD		W32/53	30.28	0.98	
R14/53	LKD		W33/53	30.30	0.83	
R14/53	LKD		W34/53	30.08	0.83	6.75
R15/53	BEDROOM		W35/53	29.90	3.33	3.33
R16/53	BEDROOM		W36/53	29.66	3.40	3.40
R17/53	BEDROOM		W37/53	29.39	2.96	2.96
R18/53	LKD		W38/53	16.58	1.30	1.30
R19/53	BEDROOM		W39/53	24.95	1.47	1.47
R20/53	BEDROOM		W40/53	25.93	3.75	3.75
R1/54	BEDROOM		W1/54	36.37	0.64	
R1/54	BEDROOM		W2/54	36.36	1.81	
R1/54	BEDROOM		W3/54	36.38	0.94	
R1/54	BEDROOM		W4/54	36.38	1.76	5.14
R2/54	BEDROOM		W5/54	36.39	1.03	
R2/54	BEDROOM		W6/54	36.38	2.04	3.06
R3/54	LKD		W7/54	36.41	1.71	
R3/54	LKD		W8/54	36.87	1.78	3.49
R4/54	BEDROOM		W9/54	37.30	2.40	
R4/54	BEDROOM		W10/54	37.31	0.60	3.00
R5/54	BEDROOM		W11/54	37.30	0.24	
R5/54	BEDROOM		W12/54	37.30	1.31	
R5/54	BEDROOM		W13/54	37.28	2.29	3.84
R6/54	LKD		W14/54	37.29	0.36	
R6/54	LKD		W15/54	37.28	0.63	
R6/54	LKD		W16/54	37.28	0.36	
R6/54	LKD		W17/54	37.27	0.63	
R6/54	LKD		W18/54	37.27	0.36	

Room	Roomuse	Flat	Window	VSC(%)	ADF(%)	TOTAL ADF(%)
R6/54	LKD		W19/54	37.26	0.63	
R6/54	LKD		W20/54	37.28	1.11	
R6/54	LKD		W21/54	36.22	3.46	
R6/54	LKD		W22/54	8.13	0.31	7.84
R7/54	BEDROOM		W23/54	8.10	1.10	1.10
R8/54	LKD		W24/54	36.10	5.20	5.20
R9/54	BEDROOM		W25/54	7.56	1.06	1.06
R10/54	LD		W26/54	36.03	4.55	4.55
R11/54	BEDROOM		W27/54	7.61	1.07	1.07
R12/54	LKD		W28/54	35.80	5.32	5.32
R13/54	BEDROOM		W29/54	8.02	1.32	1.32
R14/54	LKD		W30/54	8.43	0.40	
R14/54	LKD		W31/54	35.59	4.24	
R14/54	LKD		W32/54	31.79	1.14	
R14/54	LKD		W33/54	31.84	0.97	
R14/54	LKD		W34/54	31.62	0.96	7.71
R15/54	BEDROOM		W35/54	31.43	3.19	3.19
R16/54	LKD		W36/54	31.19	1.52	1.52
R17/54	BEDROOM		W37/54	30.93	1.50	1.50
R18/54	LKD		W38/54	16.52	1.28	1.28
R19/54	BEDROOM		W39/54	24.86	1.44	1.44
R20/54	BEDROOM		W40/54	25.76	3.68	3.68
R1/55	BEDROOM		W1/55	38.87	1.02	
R1/55	BEDROOM		W2/55	38.87	2.07	3.08
R2/55	BEDROOM		W3/55	38.86	1.18	
R2/55	BEDROOM		W4/55	38.85	2.36	3.54
R3/55	LKD		W5/55	38.87	0.47	
R3/55	LKD		W6/55	38.86	0.93	
R3/55	LKD		W7/55	38.86	0.47	
R3/55	LKD		W8/55	38.86	0.93	
R3/55	LKD		W9/55	38.88	0.47	
R3/55	LKD		W10/55	38.88	0.93	4.20
R4/55	BEDROOM		W11/55	38.88	2.63	
R4/55	BEDROOM		W12/55	38.88	0.63	3.26
R5/55	BEDROOM		W13/55	38.87	0.26	
R5/55	BEDROOM		W14/55	38.87	1.42	
R5/55	BEDROOM		W15/55	38.86	2.49	4.17
R6/55	LKD		W16/55	38.87	0.39	
R6/55	LKD		W17/55	38.87	0.69	
R6/55	LKD		W18/55	38.87	0.39	

Room	Roomuse	Flat	Window	VSC(%)	ADF(%)	TOTAL ADF(%)
R6/55	LKD		W19/55	38.86	0.69	
R6/55	LKD		W20/55	38.87	0.39	
R6/55	LKD		W21/55	38.88	0.69	
R6/55	LKD		W22/55	38.88	1.22	
R6/55	LKD		W23/55	38.25	3.79	
R6/55	LKD		W24/55	13.38	0.43	8.67
R7/55	BEDROOM		W25/55	13.36	1.49	1.49
R8/55	LKD		W26/55	38.10	5.70	5.70
R9/55	BEDROOM		W27/55	11.96	1.46	1.46
R10/55	LD		W28/55	38.00	4.97	4.97
R11/55	BEDROOM		W29/55	11.83	1.44	1.44
R12/55	LKD		W30/55	37.84	5.82	5.82
R13/55	BEDROOM		W31/55	13.23	1.80	1.80
R14/55	LKD		W32/55	13.68	0.55	
R14/55	LKD		W33/55	37.43	4.62	
R14/55	LKD		W34/55	33.35	1.21	
R14/55	LKD		W35/55	33.34	1.02	
R14/55	LKD		W36/55	33.13	1.01	8.41
R15/55	BEDROOM		W37/55	32.94	3.35	3.35
R16/55	LKD		W38/55	32.72	1.60	1.60
R17/55	BEDROOM		W39/55	32.48	1.59	1.59
R18/55	LKD		W40/55	14.54	1.16	1.16
R19/55	BEDROOM		W41/55	21.76	1.30	1.30
R20/55	BEDROOM		W42/55	22.28	3.26	3.26
R1/56	BEDROOM		W1/56	38.12	0.95	
R1/56	BEDROOM		W2/56	38.12	1.92	2.87
R2/56	BEDROOM		W3/56	38.03	1.09	
R2/56	BEDROOM		W4/56	38.03	2.19	3.28
R3/56	LKD		W5/56	38.04	0.43	
R3/56	LKD		W6/56	38.04	0.86	
R3/56	LKD		W7/56	38.04	0.43	
R3/56	LKD		W8/56	38.04	0.86	
R3/56	LKD		W9/56	38.06	0.43	
R3/56	LKD		W10/56	38.06	0.86	3.86
R4/56	BEDROOM		W11/56	38.05	2.44	
R4/56	BEDROOM		W12/56	38.05	0.59	3.03
R5/56	BEDROOM		W13/56	38.05	0.25	
R5/56	BEDROOM		W14/56	38.07	1.31	
R5/56	BEDROOM		W15/56	38.06	2.30	3.86
R6/56	LKD		W16/56	38.07	0.36	

Room	Roomuse	Flat	Window	VSC(%)	ADF(%)	TOTAL ADF(%)
R6/56	LKD		W17/56	38.08	0.63	
R6/56	LKD		W18/56	38.08	0.36	
R6/56	LKD		W19/56	38.08	0.63	
R6/56	LKD		W20/56	38.10	0.36	
R6/56	LKD		W21/56	38.13	0.63	
R6/56	LKD		W22/56	38.29	1.12	
R6/56	LKD		W23/56	38.74	3.59	
R6/56	LKD		W24/56	9.40	0.34	8.02
R7/56	BEDROOM		W25/56	9.37	1.20	1.20
R8/56	LKD		W26/56	38.64	5.41	5.41
R9/56	BEDROOM		W27/56	8.69	1.16	1.16
R10/56	LD		W28/56	38.57	4.72	4.72
R11/56	BEDROOM		W29/56	8.68	1.16	1.16
R12/56	LKD		W30/56	38.43	5.53	5.53
R13/56	BEDROOM		W31/56	9.23	1.43	1.43
R14/56	LKD		W32/56	9.53	0.43	
R14/56	LKD		W33/56	38.14	4.40	
R14/56	LKD		W34/56	34.76	1.23	
R14/56	LKD		W35/56	34.77	1.04	
R14/56	LKD		W36/56	34.57	1.04	8.15
R15/56	BEDROOM		W37/56	34.39	3.44	3.44
R16/56	LKD		W38/56	34.18	1.64	1.64
R17/56	BEDROOM		W39/56	33.96	1.63	1.63
R18/56	LKD		W40/56	4.68	0.50	0.50
R19/56	BEDROOM		W41/56	7.61	0.60	0.60
R20/56	BEDROOM		W42/56	7.18	1.46	1.46
R1/57	LKD		W1/57	37.59	0.72	
R1/57	LKD		W2/57	38.41	1.24	1.97
R2/57	BEDROOM		W3/57	37.84	1.86	
R2/57	BEDROOM		W4/57	38.49	3.20	5.06
R3/57	BEDROOM		W5/57	38.91	1.75	
R3/57	BEDROOM		W6/57	39.09	3.30	5.05
R4/57	BEDROOM		W7/57	38.97	3.65	3.65
R5/57	BEDROOM		W8/57	39.36	6.35	6.35
R6/57	BEDROOM		W9/57	39.37	6.79	6.79
R7/57	LKD		W10/57	39.38	2.36	
R7/57	LKD		W11/57	39.36	0.89	
R7/57	LKD		W12/57	39.38	2.95	
R7/57	LKD		W13/57	39.35	3.02	9.22

Room	Roomuse	Flat	Window	VSC(%)	ADF(%)	TOTAL ADF(%)
R8/57	BEDROOM		W14/57	39.33	3.75	3.75
R9/57	BEDROOM		W15/57	39.31	3.77	3.77
R10/57	LKD		W16/57	39.30	3.01	3.01
R11/57	BEDROOM		W17/57	39.29	3.76	3.76
R12/57	LKD		W18/57	39.26	4.18	4.18
R13/57	BEDROOM		W19/57	39.23	4.07	4.07
R14/57	BEDROOM		W20/57	39.22	3.66	3.66
R15/57	LKD		W21/57	39.18	4.15	
R15/57	LKD		W22/57	36.08	1.56	
R15/57	LKD		W23/57	35.90	1.55	7.25
R16/57	BEDROOM		W24/57	35.74	3.55	3.55
R17/57	LKD		W25/57	35.55	1.69	1.69
R18/57	BEDROOM		W26/57	35.36	1.69	1.69
R19/57	LKD		W27/57	34.97	2.25	2.25
R20/57	BEDROOM		W28/57	34.69	2.27	2.27
R21/57	BEDROOM		W29/57	34.63	1.56	1.56
R1/58	BEDROOM		W1/58	35.78	0.91	
R1/58	BEDROOM		W2/58	37.49	1.68	2.59
R2/58	LKD		W3/58	36.09	0.54	
R2/58	LKD		W4/58	37.65	0.99	
R2/58	LKD		W5/58	38.10	0.58	
R2/58	LKD		W6/58	38.67	1.12	3.23
R3/58	BEDROOM		W7/58	38.23	3.50	3.50
R4/58	BEDROOM		W8/58	39.21	7.52	7.52
R5/58	BEDROOM		W9/58	39.22	6.00	6.00
R6/58	BEDROOM		W10/58	39.23	6.11	6.11
R7/58	LKD		W11/58	39.21	0.67	
R7/58	LKD		W12/58	39.12	2.18	
R7/58	LKD		W13/58	39.09	1.03	
R7/58	LKD		W14/58	39.10	1.02	
R7/58	LKD		W15/58	39.10	1.07	5.97
R8/58	BEDROOM		W16/58	39.10	3.32	3.32
R9/58	LKD		W17/58	39.10	2.85	2.85
R10/58	BEDROOM		W18/58	39.10	3.32	3.32
R11/58	LKD		W19/58	39.10	3.94	3.94

Room	Roomuse	Flat	Window	VSC(%)	ADF(%)	TOTAL ADF(%)
R12/58	BEDROOM		W20/58	39.10	3.03	3.03
R13/58	LKD		W21/58	39.10	1.15	
R13/58	LKD		W22/58	39.12	3.07	
R13/58	LKD		W23/58	37.10	1.26	
R13/58	LKD		W24/58	36.95	1.26	6.75
R14/58	BEDROOM		W25/58	36.82	3.69	3.69
R15/58	LKD		W26/58	36.67	1.76	1.76
R16/58	BEDROOM		W27/58	36.52	1.75	1.75
R17/58	LKD		W28/58	35.94	2.19	2.19
R18/58	BEDROOM		W29/58	35.72	2.23	2.23
R19/58	BEDROOM		W30/58	35.68	1.53	1.53

# Sunlight Data



INTERNAL SUNLIGHT ANALYSIS  
PROPOSED SCHEME 03/12/18

Room	Window	Room Use	Window		Room	
			Winter APSH	Annual APSH	Winter APSH	Annual APSH
<b>Proposed Scheme</b>						
R1/50	W1/50	BEDROOM	4	8	4	8
R2/50	W2/50	BEDROOM	4	8		
R2/50	W3/50	BEDROOM	3	7	4	8
R3/50	W4/50	LKD	4	9		
R3/50	W5/50	LKD	4	9	4	9
R4/50	W6/50	BEDROOM	3	8	3	8
R5/50	W7/50	BEDROOM	3	8	3	8
R6/50	W8/50	BEDROOM	3	8		
R6/50	W9/50	BEDROOM	7	9	9	16
R7/50	W10/50	BEDROOM	7	9	7	9
R8/50	W11/50	LKD	3	3		
R8/50	W12/50	LKD	7	9	8	10
R9/50	W13/50	BEDROOM	1	1	1	1
R10/50	W14/50	BEDROOM	6	8	6	8
R11/50	W15/50	BEDROOM	1	1	1	1
R12/50	W16/50	LKD	6	8		
R12/50	W17/50	LKD	3	3	7	9

**INTERNAL SUNLIGHT ANALYSIS  
PROPOSED SCHEME 03/12/18**

Room	Window	Room Use	Window		Room	
			Winter APSH	Annual APSH	Winter APSH	Annual APSH
R13/50	W18/50	LKD	2	2		
R13/50	W19/50	LKD	9	13		
R13/50	W20/50	LKD	0	19		
R13/50	W21/50	LKD	0	18	9	30
R14/50	W22/50	BEDROOM	0	16	0	16
R15/50	W23/50	BEDROOM	0	17	0	17
R16/50	W24/50	BEDROOM	0	15	0	15
R1/51	W1/51	BEDROOM	9	36		
R1/51	W2/51	BEDROOM	12	44		
R1/51	W3/51	BEDROOM	12	45		
R1/51	W4/51	BEDROOM	7	34	12	45
R2/51	W5/51	LKD	7	34		
R2/51	W6/51	LKD	12	45		
R2/51	W7/51	LKD	12	45		
R2/51	W8/51	LKD	11	44		
R2/51	W9/51	LKD	11	43	12	45
R3/51	W10/51	BEDROOM	8	36		
R3/51	W11/51	BEDROOM	5	30	9	37
R4/51	W12/51	BEDROOM	3	21		
R4/51	W13/51	BEDROOM	11	43		
R4/51	W14/51	BEDROOM	10	42	11	44
R5/51	W15/51	LKD	11	44		
R5/51	W16/51	LKD	9	42		

**INTERNAL SUNLIGHT ANALYSIS  
PROPOSED SCHEME 03/12/18**

Room	Window	Room Use	Window		Room	
			Winter APSH	Annual APSH	Winter APSH	Annual APSH
R5/51	W17/51	LKD	10	43		
R5/51	W18/51	LKD	9	42		
R5/51	W19/51	LKD	10	43		
R5/51	W20/51	LKD	9	41		
R5/51	W21/51	LKD	12	46		
R5/51	W22/51	LKD	13	67		
R5/51	W23/51	LKD	6	18	17	83
R6/51	W24/51	BEDROOM	7	15	7	15
R7/51	W25/51	LKD	18	72	18	72
R8/51	W26/51	BEDROOM	8	18	8	18
R9/51	W27/51	LD	14	68	14	68
R10/51	W28/51	BEDROOM	6	18	6	18
R11/51	W29/51	LKD	17	71	17	71
R12/51	W30/51	BEDROOM	8	20	8	20
R13/51	W31/51	LKD	7	16		
R13/51	W32/51	LKD	15	68		
R13/51	W33/51	LKD	1	26		
R13/51	W34/51	LKD	0	20		
R13/51	W35/51	LKD	1	21	16	70
R14/51	W36/51	BEDROOM	1	21	1	21
R15/51	W37/51	BEDROOM	1	21	1	21

**INTERNAL SUNLIGHT ANALYSIS  
PROPOSED SCHEME 03/12/18**

Room	Window	Room Use	Window		Room	
			Winter APSH	Annual APSH	Winter APSH	Annual APSH
R16/51	W38/51	BEDROOM	1	18	1	18
R1/52	W1/52	BEDROOM	14	45	14	45
R2/52	W2/52	BEDROOM	13	44		
R2/52	W3/52	BEDROOM	13	44		
R2/52	W4/52	BEDROOM	13	44	13	44
R3/52	W5/52	LKD	13	45		
R3/52	W6/52	LKD	13	45		
R3/52	W7/52	LKD	13	45		
R3/52	W8/52	LKD	13	47		
R3/52	W9/52	LKD	13	47	13	47
R4/52	W10/52	BEDROOM	10	39		
R4/52	W11/52	BEDROOM	7	32	11	40
R5/52	W12/52	BEDROOM	4	22		
R5/52	W13/52	BEDROOM	15	49		
R5/52	W14/52	BEDROOM	14	49	15	50
R6/52	W15/52	LKD	15	50		
R6/52	W16/52	LKD	14	49		
R6/52	W17/52	LKD	15	50		
R6/52	W18/52	LKD	14	48		
R6/52	W19/52	LKD	14	48		
R6/52	W20/52	LKD	12	46		
R6/52	W21/52	LKD	15	50		
R6/52	W22/52	LKD	19	73		
R6/52	W23/52	LKD	8	8	26	95

**INTERNAL SUNLIGHT ANALYSIS  
PROPOSED SCHEME 03/12/18**

Room	Window	Room Use	Window		Room	
			Winter APSH	Annual APSH	Winter APSH	Annual APSH
R7/52	W24/52	BEDROOM	6	6	6	6
R8/52	W25/52	LKD	22	76	22	76
R9/52	W26/52	BEDROOM	6	6	6	6
R10/52	W27/52	LD	21	75	21	75
R11/52	W28/52	BEDROOM	6	6	6	6
R12/52	W29/52	LKD	20	74	20	74
R13/52	W30/52	BEDROOM	7	7	7	7
R14/52	W31/52	LKD	8	8		
R14/52	W32/52	LKD	21	75		
R14/52	W33/52	LKD	3	28		
R14/52	W34/52	LKD	1	22		
R14/52	W35/52	LKD	1	21	22	76
R15/52	W36/52	BEDROOM	1	21	1	21
R16/52	W37/52	BEDROOM	1	22	1	22
R17/52	W38/52	BEDROOM	1	21	1	21
R18/52	W39/52	LKD	0	1		
R18/52	W40/52	LKD	1	17	1	17
R19/52	W40/52	BEDROOM	1	17	1	17

INTERNAL SUNLIGHT ANALYSIS  
PROPOSED SCHEME 03/12/18

Room	Window	Room Use	Window		Room	
			Winter APSH	Annual APSH	Winter APSH	Annual APSH
R20/52	W41/52	BEDROOM	3	25	3	25
R1/53	W1/53	BEDROOM	13	46		
R1/53	W2/53	BEDROOM	13	48		
R1/53	W3/53	BEDROOM	13	48		
R1/53	W4/53	BEDROOM	13	48	13	48
R2/53	W5/53	BEDROOM	13	48		
R2/53	W6/53	BEDROOM	13	48	13	48
R3/53	W7/53	LKD	13	48		
R3/53	W8/53	LKD	13	48	13	48
R4/53	W9/53	BEDROOM	11	41		
R4/53	W10/53	BEDROOM	7	33	11	41
R5/53	W11/53	BEDROOM	4	23		
R5/53	W12/53	BEDROOM	15	50		
R5/53	W13/53	BEDROOM	14	49	15	50
R6/53	W14/53	LKD	15	50		
R6/53	W15/53	LKD	14	49		
R6/53	W16/53	LKD	15	50		
R6/53	W17/53	LKD	14	49		
R6/53	W18/53	LKD	15	50		
R6/53	W19/53	LKD	14	49		
R6/53	W20/53	LKD	17	53		
R6/53	W21/53	LKD	27	82		
R6/53	W22/53	LKD	11	18	28	97

**INTERNAL SUNLIGHT ANALYSIS  
PROPOSED SCHEME 03/12/18**

Room	Window	Room Use	Window		Room	
			Winter APSH	Annual APSH	Winter APSH	Annual APSH
R7/53	W23/53	BEDROOM	13	16	13	16
R8/53	W24/53	LKD	27	82	27	82
R9/53	W25/53	BEDROOM	13	18	13	18
R10/53	W26/53	LD	25	80	25	80
R11/53	W27/53	BEDROOM	11	18	11	18
R12/53	W28/53	LKD	25	80	25	80
R13/53	W29/53	BEDROOM	11	18	11	18
R14/53	W30/53	LKD	14	18		
R14/53	W31/53	LKD	26	81		
R14/53	W32/53	LKD	4	31		
R14/53	W33/53	LKD	2	24		
R14/53	W34/53	LKD	2	24	26	81
R15/53	W35/53	BEDROOM	2	24	2	24
R16/53	W36/53	BEDROOM	2	24	2	24
R17/53	W37/53	BEDROOM	2	23	2	23
R18/53	W38/53	LKD	0	2		
R18/53	W39/53	LKD	1	18	1	18
R19/53	W39/53	BEDROOM	1	18	1	18

**INTERNAL SUNLIGHT ANALYSIS  
PROPOSED SCHEME 03/12/18**

Room	Window	Room Use	Window		Room	
			Winter APSH	Annual APSH	Winter APSH	Annual APSH
R20/53	W40/53	BEDROOM	3	26	3	26
R1/54	W1/54	BEDROOM	15	47		
R1/54	W2/54	BEDROOM	15	48		
R1/54	W3/54	BEDROOM	15	48		
R1/54	W4/54	BEDROOM	15	48	15	48
R2/54	W5/54	BEDROOM	15	48		
R2/54	W6/54	BEDROOM	15	48	15	48
R3/54	W7/54	LKD	15	47		
R3/54	W8/54	LKD	15	48	15	48
R4/54	W9/54	BEDROOM	12	42		
R4/54	W10/54	BEDROOM	7	33	12	42
R5/54	W11/54	BEDROOM	4	23		
R5/54	W12/54	BEDROOM	16	51		
R5/54	W13/54	BEDROOM	15	50	16	51
R6/54	W14/54	LKD	16	51		
R6/54	W15/54	LKD	15	50		
R6/54	W16/54	LKD	16	51		
R6/54	W17/54	LKD	15	50		
R6/54	W18/54	LKD	16	51		
R6/54	W19/54	LKD	15	50		
R6/54	W20/54	LKD	18	53		
R6/54	W21/54	LKD	27	81		
R6/54	W22/54	LKD	9	9	29	98
R7/54	W23/54	BEDROOM	9	9	9	9

INTERNAL SUNLIGHT ANALYSIS  
PROPOSED SCHEME 03/12/18

Room	Window	Room Use	Window		Room	
			Winter APSH	Annual APSH	Winter APSH	Annual APSH
R8/54	W24/54	LKD	27	81	27	81
R9/54	W25/54	BEDROOM	8	8	8	8
R10/54	W26/54	LD	27	81	27	81
R11/54	W27/54	BEDROOM	9	9	9	9
R12/54	W28/54	LKD	27	81	27	81
R13/54	W29/54	BEDROOM	9	9	9	9
R14/54	W30/54	LKD	10	10		
R14/54	W31/54	LKD	26	80		
R14/54	W32/54	LKD	4	30		
R14/54	W33/54	LKD	2	24		
R14/54	W34/54	LKD	2	24	26	80
R15/54	W35/54	BEDROOM	2	24	2	24
R16/54	W36/54	LKD	2	24		
R16/54	W37/54	LKD	2	23	2	24
R17/54	W37/54	BEDROOM	2	23	2	23
R18/54	W38/54	LKD	0	4		
R18/54	W39/54	LKD	1	19	1	20
R19/54	W39/54	BEDROOM	1	19	1	19

**INTERNAL SUNLIGHT ANALYSIS  
PROPOSED SCHEME 03/12/18**

Room	Window	Room Use	Window		Room	
			Winter APSH	Annual APSH	Winter APSH	Annual APSH
R20/54	W40/54	BEDROOM	3	25	3	25
R1/55	W1/55	BEDROOM	12	42		
R1/55	W2/55	BEDROOM	12	42	12	42
R2/55	W3/55	BEDROOM	15	50		
R2/55	W4/55	BEDROOM	15	50	15	50
R3/55	W5/55	LKD	15	50		
R3/55	W6/55	LKD	15	50		
R3/55	W7/55	LKD	15	50		
R3/55	W8/55	LKD	15	50		
R3/55	W9/55	LKD	15	50		
R3/55	W10/55	LKD	15	50	15	50
R4/55	W11/55	BEDROOM	12	42		
R4/55	W12/55	BEDROOM	7	33	12	42
R5/55	W13/55	BEDROOM	4	23		
R5/55	W14/55	BEDROOM	16	51		
R5/55	W15/55	BEDROOM	15	50	16	51
R6/55	W16/55	LKD	16	51		
R6/55	W17/55	LKD	15	50		
R6/55	W18/55	LKD	16	51		
R6/55	W19/55	LKD	15	50		
R6/55	W20/55	LKD	16	51		
R6/55	W21/55	LKD	15	50		
R6/55	W22/55	LKD	18	54		
R6/55	W23/55	LKD	28	83		
R6/55	W24/55	LKD	12	19	30	99

INTERNAL SUNLIGHT ANALYSIS  
PROPOSED SCHEME 03/12/18

Room	Window	Room Use	Window		Room	
			Winter APSH	Annual APSH	Winter APSH	Annual APSH
R7/55	W25/55	BEDROOM	13	16	13	16
R8/55	W26/55	LKD	28	83	28	83
R9/55	W27/55	BEDROOM	13	18	13	18
R10/55	W28/55	LD	28	83	28	83
R11/55	W29/55	BEDROOM	11	18	11	18
R12/55	W30/55	LKD	28	83	28	83
R13/55	W31/55	BEDROOM	11	18	11	18
R14/55	W32/55	LKD	14	18		
R14/55	W33/55	LKD	27	82		
R14/55	W34/55	LKD	5	32		
R14/55	W35/55	LKD	3	25		
R14/55	W36/55	LKD	3	25	27	82
R15/55	W37/55	BEDROOM	3	25	3	25
R16/55	W38/55	LKD	3	25		
R16/55	W39/55	LKD	3	25	3	25
R17/55	W39/55	BEDROOM	3	25	3	25
R18/55	W40/55	LKD	0	4		
R18/55	W41/55	LKD	2	19	2	19

**INTERNAL SUNLIGHT ANALYSIS  
PROPOSED SCHEME 03/12/18**

Room	Window	Room Use	Window		Room	
			Winter APSH	Annual APSH	Winter APSH	Annual APSH
R19/55	W41/55	BEDROOM	2	19	2	19
R20/55	W42/55	BEDROOM	4	20	4	20
R1/56	W1/56	BEDROOM	12	42		
R1/56	W2/56	BEDROOM	12	42	12	42
R2/56	W3/56	BEDROOM	15	48		
R2/56	W4/56	BEDROOM	15	48	15	48
R3/56	W5/56	LKD	15	48		
R3/56	W6/56	LKD	15	48		
R3/56	W7/56	LKD	15	48		
R3/56	W8/56	LKD	15	48		
R3/56	W9/56	LKD	15	48		
R3/56	W10/56	LKD	15	48	15	48
R4/56	W11/56	BEDROOM	12	42		
R4/56	W12/56	BEDROOM	7	33	12	42
R5/56	W13/56	BEDROOM	5	24		
R5/56	W14/56	BEDROOM	16	49		
R5/56	W15/56	BEDROOM	15	48	16	49
R6/56	W16/56	LKD	16	49		
R6/56	W17/56	LKD	15	48		
R6/56	W18/56	LKD	16	49		
R6/56	W19/56	LKD	15	48		
R6/56	W20/56	LKD	16	49		
R6/56	W21/56	LKD	15	48		
R6/56	W22/56	LKD	18	52		

**INTERNAL SUNLIGHT ANALYSIS  
PROPOSED SCHEME 03/12/18**

Room	Window	Room Use	Window		Room	
			Winter APSH	Annual APSH	Winter APSH	Annual APSH
R6/56	W23/56	LKD	28	82		
R6/56	W24/56	LKD	10	10	30	99
R7/56	W25/56	BEDROOM	9	9	9	9
R8/56	W26/56	LKD	28	82	28	82
R9/56	W27/56	BEDROOM	8	8	8	8
R10/56	W28/56	LD	28	82	28	82
R11/56	W29/56	BEDROOM	9	9	9	9
R12/56	W30/56	LKD	28	82	28	82
R13/56	W31/56	BEDROOM	9	9	9	9
R14/56	W32/56	LKD	10	10		
R14/56	W33/56	LKD	28	82		
R14/56	W34/56	LKD	5	31		
R14/56	W35/56	LKD	3	25		
R14/56	W36/56	LKD	4	26	28	82
R15/56	W37/56	BEDROOM	4	26	4	26
R16/56	W38/56	LKD	4	26		
R16/56	W39/56	LKD	4	26	4	26
R17/56	W39/56	BEDROOM	4	26	4	26
R18/56	W40/56	LKD	0	4		

**INTERNAL SUNLIGHT ANALYSIS  
PROPOSED SCHEME 03/12/18**

Room	Window	Room Use	Window		Room	
			Winter APSH	Annual APSH	Winter APSH	Annual APSH
R18/56	W41/56	LKD	3	9	3	9
R19/56	W41/56	BEDROOM	3	9	3	9
R20/56	W42/56	BEDROOM	3	9	3	9
R1/57	W1/57	LKD	10	40		
R1/57	W2/57	LKD	9	36	10	40
R2/57	W3/57	BEDROOM	10	40		
R2/57	W4/57	BEDROOM	9	36	10	40
R3/57	W5/57	BEDROOM	11	41		
R3/57	W6/57	BEDROOM	10	40	11	41
R4/57	W7/57	BEDROOM	12	43	12	43
R5/57	W8/57	BEDROOM	16	51	16	51
R6/57	W9/57	BEDROOM	16	51	16	51
R7/57	W10/57	LKD	16	51		
R7/57	W11/57	LKD	12	42		
R7/57	W12/57	LKD	28	79		
R7/57	W13/57	LKD	28	79	30	97
R8/57	W14/57	BEDROOM	26	70	26	70
R9/57	W15/57	BEDROOM	26	71	26	71
R10/57	W16/57	LKD	28	74	28	74

INTERNAL SUNLIGHT ANALYSIS  
PROPOSED SCHEME 03/12/18

Room	Window	Room Use	Window		Room	
			Winter APSH	Annual APSH	Winter APSH	Annual APSH
R11/57	W17/57	BEDROOM	26	71	26	71
R12/57	W18/57	LKD	28	79	28	79
R13/57	W19/57	BEDROOM	26	70	26	70
R14/57	W20/57	BEDROOM	25	68	25	68
R15/57	W21/57	LKD	28	80		
R15/57	W22/57	LKD	4	26		
R15/57	W23/57	LKD	4	26	28	82
R16/57	W24/57	BEDROOM	4	26	4	26
R17/57	W25/57	LKD	4	26		
R17/57	W26/57	LKD	4	26	4	26
R18/57	W26/57	BEDROOM	4	26	4	26
R19/57	W27/57	LKD	6	32	6	32
R20/57	W28/57	BEDROOM	4	26	4	26
R21/57	W29/57	BEDROOM	3	23	3	23
R1/58	W1/58	BEDROOM	10	39		
R1/58	W2/58	BEDROOM	9	36	10	39
R2/58	W3/58	LKD	10	39		
R2/58	W4/58	LKD	9	36		

**INTERNAL SUNLIGHT ANALYSIS  
PROPOSED SCHEME 03/12/18**

Room	Window	Room Use	Window		Room	
			Winter APSH	Annual APSH	Winter APSH	Annual APSH
R2/58	W5/58	LKD	11	41		
R2/58	W6/58	LKD	10	40	11	41
R3/58	W7/58	BEDROOM	12	43	12	43
R4/58	W8/58	BEDROOM	16	51	16	51
R5/58	W9/58	BEDROOM	16	51	16	51
R6/58	W10/58	BEDROOM	16	51	16	51
R7/58	W11/58	LKD	12	42		
R7/58	W12/58	LKD	28	78		
R7/58	W13/58	LKD	26	69		
R7/58	W14/58	LKD	26	70		
R7/58	W15/58	LKD	26	70	30	97
R8/58	W16/58	BEDROOM	26	71	26	71
R9/58	W17/58	LKD	28	74	28	74
R10/58	W18/58	BEDROOM	26	71	26	71
R11/58	W19/58	LKD	28	77	28	77
R12/58	W20/58	BEDROOM	26	70	26	70
R13/58	W21/58	LKD	25	68		
R13/58	W22/58	LKD	28	77		
R13/58	W23/58	LKD	4	26		
R13/58	W24/58	LKD	4	26	28	79

INTERNAL SUNLIGHT ANALYSIS  
PROPOSED SCHEME 03/12/18

Room	Window	Room Use	Window		Room	
			Winter APSH	Annual APSH	Winter APSH	Annual APSH
R14/58	W25/58	BEDROOM	4	26	4	26
R15/58	W26/58	LKD	4	26		
R15/58	W27/58	LKD	4	26	4	26
R16/58	W27/58	BEDROOM	4	26	4	26
R17/58	W28/58	LKD	6	32	6	32
R18/58	W29/58	BEDROOM	4	26	4	26
R19/58	W30/58	BEDROOM	3	23	3	23