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GVA
 65 Gresham Street,
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21 February 2018

Dear Sirs,

Re: Charlton Riverside - Daylight, Sunlight, Overshadowing and Solar Glare

This practice have been instructed to review the implications of the alterations to scheme on daylight, sunlight, overshadowing, light pollution and solar glare from those submitted in the December 2017 Environmental Statement Chapter and standalone internal daylight & sunlight report dated 13th December 2017. The updated scheme (February 2018 scheme) includes the following changes:

- Reduction of 2 storeys from Building H and increasing Buildings C, E and F by 1 storey.
- Removing isolated windows Buildings B, C, D, E, F, G, H, J, K, L, M and N
- Introducing loggias and privacy screens to Buildings A, C and J.

The updated results are described within this report. In addition a commentary on the comparison with the previous results has been provided. Drawings of the updated scheme are shown within appendix 1, detailed results for daylight and sunlight to surrounding properties are shown in appendix 2, updated shadow assessments are provided in appendices 3 and 4 and updated internal drawings and results in appendix 5.

Daylight / Sunlight within the surrounding properties

The below table summarise the effects under the updated scheme. These results can be directly compared with December 2017 Chapter.

<i>Surrounding Properties</i>	<i>Total number of windows</i>	<i>Total number of windows that achieve VSC levels in excess of 27% or a reduction of less than 20% from the baseline level</i>	<i>Total number of windows that see VSC reductions suggested to be noticeable in the BRE guidance</i>			
			<i>20%-29.9% reduction</i>	<i>30%-39.9% reduction</i>	<i>>40% reduction</i>	<i>Total</i>
1-2 Atlas Gardens	2	2	0	0	0	0
3-4 Atlas Gardens	2	2	0	0	0	0

<i>Surrounding Properties</i>	<i>Total number of windows</i>	<i>Total number of windows that achieve VSC levels in excess of 27% or a reduction of less than 20% from the baseline level</i>	<i>Total number of windows that see VSC reductions suggested to be noticeable in the BRE guidance</i>			
			<i>20%-29.9% reduction</i>	<i>30%-39.9% reduction</i>	<i>>40% reduction</i>	<i>Total</i>
5-6 Atlas Gardens	2	2	0	0	0	0
7-8 Atlas Gardens	2	2	0	0	0	0
9-10 Atlas Gardens	2	2	0	0	0	0
11-12 Atlas Gardens	16	10	6	0	0	6
13-14 Atlas Gardens	2	0	2	0	0	2
15-16 Atlas Gardens	2	0	2	0	0	2
17-18 Atlas Gardens	2	1	1	0	0	1
19-20 Atlas Gardens	5	4	1	0	0	1
21-22 Atlas Gardens	2	1	1	0	0	1
23-24 Atlas Gardens	2	1	1	0	0	1
25-26 Atlas Gardens	16	15	1	0	0	1
27-28 Atlas Gardens	5	3	2	0	0	2
29-30 Atlas Gardens	2	0	0	2	0	2
21-22 Derrick Gardens	3	3	0	0	0	0
23-24 Derrick Gardens	2	2	0	0	0	0
25-26 Derrick Gardens	2	2	0	0	0	0
27-28 Derrick Gardens	2	0	2	0	0	2
29-30 Derrick Gardens	2	2	0	0	0	0
31-32 Derrick Gardens	2	2	0	0	0	0
33-34 Derrick Gardens	2	2	0	0	0	0
35-36 Derrick Gardens	2	2	0	0	0	0
37-38 Derrick Gardens	2	2	0	0	0	0

<i>Surrounding Properties</i>	<i>Total number of windows</i>	<i>Total number of windows that achieve VSC levels in excess of 27% or a reduction of less than 20% from the baseline level</i>	<i>Total number of windows that see VSC reductions suggested to be noticeable in the BRE guidance</i>			
			<i>20%-29.9% reduction</i>	<i>30%-39.9% reduction</i>	<i>>40% reduction</i>	<i>Total</i>
39-40 Derrick Gardens	7	7	0	0	0	0
1 – 8 Anchor & Hope Lane	15	3	5	6	1	12

Table 11.6 Completed Development – NSC in relation to the BRE guidelines

<i>Surrounding Properties</i>	<i>Total number of rooms</i>	<i>Total number of rooms that achieve less than 20% from the baseline level in NSC</i>	<i>Total number of rooms that see NSC reductions suggested to be noticeable in the BRE guidance</i>			
			<i>20%-29.9% reduction</i>	<i>30%-39.9% reduction</i>	<i>>40% reduction</i>	<i>Total</i>
1-2 Atlas Gardens	2	2	0	0	0	0
3-4 Atlas Gardens	2	2	0	0	0	0
5-6 Atlas Gardens	2	2	0	0	0	0
7-8 Atlas Gardens	2	2	0	0	0	0
9-10 Atlas Gardens	2	2	0	0	0	0
11-12 Atlas Gardens	6	6	0	0	0	0
13-14 Atlas Gardens	2	2	0	0	0	0
15-16 Atlas Gardens	2	2	0	0	0	0
17-18 Atlas Gardens	2	1	1	0	0	1
19-20 Atlas Gardens	5	4	1	0	0	1
21-22 Atlas Gardens	2	1	1	0	0	1
23-24 Atlas Gardens	2	1	1	0	0	1
25-26 Atlas Gardens	6	5	1	0	0	1
27-28 Atlas Gardens	5	3	2	0	0	2
29-30 Atlas Gardens	2	0	0	2	0	2

<i>Surrounding Properties</i>	<i>Total number of rooms</i>	<i>Total number of rooms that achieve less than 20% from the baseline level in NSC</i>	<i>Total number of rooms that see NSC reductions suggested to be noticeable in the BRE guidance</i>			
			<i>20%-29.9% reduction</i>	<i>30%-39.9% reduction</i>	<i>>40% reduction</i>	<i>Total</i>
21-22 Derrick Gardens	3	3	0	0	0	0
23-24 Derrick Gardens	2	2	0	0	0	0
25-26 Derrick Gardens	2	2	0	0	0	0
27-28 Derrick Gardens	2	2	0	0	0	0
29-30 Derrick Gardens	2	2	0	0	0	0
31-32 Derrick Gardens	2	2	0	0	0	0
33-34 Derrick Gardens	2	2	0	0	0	0
35-36 Derrick Gardens	2	2	0	0	0	0
37-38 Derrick Gardens	2	2	0	0	0	0
39-40 Derrick Gardens	5	5	0	0	0	0
1 – 8 Anchor & Hope Lane	11	10	1	0	0	1

Table 11.7 Completed Development - ADF in relation to the BRE guidelines

<i>Surrounding Properties</i>	<i>Total number of rooms</i>	<i>Total number of rooms above the BRE suggested targets</i>	<i>Total number of rooms below BRE suggested targets</i>
1-2 Atlas Gardens	2	2	0
3-4 Atlas Gardens	2	2	0
5-6 Atlas Gardens	2	2	0
7-8 Atlas Gardens	2	2	0
9-10 Atlas Gardens	2	2	0
11-12 Atlas Gardens	6	6	0
13-14 Atlas Gardens	2	1	1
15-16 Atlas Gardens	2	1	1

<i>Surrounding Properties</i>	<i>Total number of rooms</i>	<i>Total number of rooms above the BRE suggested targets</i>	<i>Total number of rooms below BRE suggested targets</i>
17-18 Atlas Gardens	2	1	1
19-20 Atlas Gardens	5	4	1
21-22 Atlas Gardens	2	1	1
23-24 Atlas Gardens	2	1	1
25-26 Atlas Gardens	6	6	0
27-28 Atlas Gardens	5	4	1
29-30 Atlas Gardens	2	1	1
21-22 Derrick Gardens	3	2	1
23-24 Derrick Gardens	2	2	0
25-26 Derrick Gardens	2	2	0
27-28 Derrick Gardens	2	2	0
29-30 Derrick Gardens	2	2	0
31-32 Derrick Gardens	2	2	0
33-34 Derrick Gardens	2	2	0
35-36 Derrick Gardens	2	2	0
37-38 Derrick Gardens	2	2	0
39-40 Derrick Gardens	5	4	1
1 – 8 Anchor & Hope Lane	11	9	2

Table 11.8 Completed Development – APSH in relation to the BRE Guidelines

<i>Existing Property</i>	<i>Total number of windows facing the application site and within 90° of due south</i>	<i>Total number of windows above BRE suggested targets for total and winter APSH</i>	<i>Total number of windows below BRE suggested targets for total and winter APSH</i>
1-2 Atlas Gardens	0	0	0
3-4 Atlas Gardens	0	0	0

<i>Existing Property</i>	<i>Total number of windows facing the application site and within 90° of due south</i>	<i>Total number of windows above BRE suggested targets for total and winter APSH</i>	<i>Total number of windows below BRE suggested targets for total and winter APSH</i>
5-6 Atlas Gardens	0	0	0
7-8 Atlas Gardens	0	0	0
9-10 Atlas Gardens	0	0	0
11-12 Atlas Gardens	6	4	2
13-14 Atlas Gardens	0	0	0
15-16 Atlas Gardens	0	0	0
17-18 Atlas Gardens	0	0	0
19-20 Atlas Gardens	0	0	0
21-22 Atlas Gardens	0	0	0
23-24 Atlas Gardens	0	0	0
25-26 Atlas Gardens	8	8	0
27-28 Atlas Gardens	5	5	0
29-30 Atlas Gardens	2	1	1
21-22 Derrick Gardens	0	0	0
23-24 Derrick Gardens	0	0	0
25-26 Derrick Gardens	0	0	0
27-28 Derrick Gardens	0	0	0
29-30 Derrick Gardens	2	2	0
31-32 Derrick Gardens	2	2	0
33-34 Derrick Gardens	2	2	0
35-36 Derrick Gardens	0	0	0
37-38 Derrick Gardens	0	0	0
39-40 Derrick Gardens	0	0	0
1 – 8 Anchor & Hope Lane	15	14	1

The February 2018 scheme incorporates a number of massing changes including a reduction in Block H. Block H is situated in close proximity to the neighbouring residential receptors and as such, the updated scheme indicates a significant improvement upon the daylight amenity levels previously reported. In every case, the results either remain the same or improve, with the vast majority of properties now indicating negligible to minor adverse effects. The overall effect to daylight with the Development in place is considered to be of negligible – moderate adverse improving from the negligible – major adverse effects stated in the December 2017 Chapter. The impacts to sunlight remain negligible to minor adverse.

Overshadowing

The results of sunlight amenity assessment are broadly align with the results reported in the December 2017 Chapter. The full results of the sunlight amenity assessment can be found at Appendix 3.

The results of the impact of the Proposed Development on surrounding amenity areas have shown either no change or an improvement in levels. As such, the effects remain negligible.

The results of the proposed external amenity spaces have shown that 7 of the 9 areas relevant for assessment will experience direct sunlight across more than 50% of their area for 2 or more hours on the 21st March, or see a reduction of no more than 20% from baseline levels with the Proposed Development in place. This compares with 8 of the 9 areas showing full compliance within the 2017 Proposal.

The additional area seeing levels below those suggested is labelled A-family-centre, where the sunlit areas decreases from 53.9% to 44.2%. Whilst this area of direct sunlight decreases, the effects are only just below the suggested target or 50%. Furthermore, the graded study indicates that the much of the area would experience 1.5 hours of direct sunlight.

With 7 of the 9 areas showing full compliance, with the remaining areas seeing less than the targets, the impact to overshadowing within the proposal would be remain minor adverse.

In addition, the results of the transient overshadowing assessment can be found at Appendix 4. The results align with the December 2017 Chapter.

Solar Glare

The updated February 2018 scheme indicates no material change to the façade treatments nor massing changes along major transport routes and as such, the results provided in the December 2017 Chapter remain relevant. As such, the effects of the proposal on Solar glare to surrounding transport users would remain minor adverse.

Internal daylight and sunlight

Internal daylight and sunlight was considered within the standalone report dated 13th December 2017. The February 2018 scheme includes a number of changes to not only the external massing, but also the introduction of changes in regard to overlooking issues. In line with the previous assessment, the lowest levels of residential accommodation have been considered as it can be deduced that light levels will

improve further up the buildings. The drawings and detailed results for the February 2018 scheme can be found at appendix 5.

The below table summarises the results:

Daylight

Building Reference	Total number of rooms relevant for daylight assessment	Total number of rooms which meet the ADF criteria
Block A	35	30
Block B	31	26
Block C	19	17
Block D	28	21
Block E	27	20
Block F	38	30
Block G	18	17
Block H	64	53
Block J	17	14
Block K	15	9
Block L	19	11
Block M	16	13
Block N	16	15
Total	343	276

Sunlight

Building Reference	Total number of rooms assessed	Total number of rooms which meet the APSH criteria
Plot A	48	24
Plot B	20	3
Total	68	27

The daylight results have shown that 276 (80%) of the 343 rooms assessed achieve compliance with the suggested BRE targets for the worst case lowest floors. This is a slight reduction from the compliance rate of 86% shown by the December 2017 scheme. The results of the sunlight assessment have shown that of the worst case lowest floors, 27 (40%) of the 68 rooms achieve compliance with the BRE targets which is also below the December 2017 scheme results of 46%.

Whilst the alterations to the scheme causes a decrease in the extent of compliance with the daylight / sunlight targets, the design changes have been driven by the privacy / overlooking requirements. As would be expected, the introduction of loggias and privacy screens as well as removal of windows would resolve overlooking concerns however inherently reduce daylight levels. The BRE guidelines allows a degree of flexibility where other factors are to be considered and the trade-off of amenity for privacy would generally be considered acceptable.

Summary

The table below shows the comparison of the likely significance of effect between the December 2017 Scheme and the February 2018 Scheme:

<i>Effects of the Completed Development</i>	<i>Likely Significant Effect December 2017 Scheme</i>	<i>Likely Significant Effect February 2018 Scheme</i>
Daylight		
1-2 Atlas Gardens	Negligible	Negligible
3-4 Atlas Gardens	Negligible	Negligible
5-6 Atlas Gardens	Negligible	Negligible
7-8 Atlas Gardens	Negligible	Negligible
9-10 Atlas Gardens	Negligible	Negligible
11-12 Atlas Gardens	Minor – Moderate adverse	Minor adverse
13-14 Atlas Gardens	Moderate – Major adverse	Minor adverse
15-16 Atlas Gardens	Moderate – Major adverse	Minor adverse
17-18 Atlas Gardens	Moderate adverse	Minor adverse
19-20 Atlas Gardens	Moderate – Major adverse	Minor adverse
21-22 Atlas Gardens	Moderate – Major adverse	Minor adverse
23-24 Atlas Gardens	Moderate – Major adverse	Minor adverse
25-26 Atlas Gardens	Minor adverse	Minor adverse
27-28 Atlas Gardens	Minor adverse	Minor adverse
29-30 Atlas Gardens	Moderate adverse	Moderate adverse
21-22 Derrick Gardens	Negligible	Negligible
23-24 Derrick Gardens	Negligible	Negligible
25-26 Derrick Gardens	Negligible	Negligible
27-28 Derrick Gardens	Minor adverse	Minor adverse
29-30 Derrick Gardens	Negligible	Negligible
31-32 Derrick Gardens	Negligible	Negligible
33-34 Derrick Gardens	Negligible	Negligible

<i>Effects of the Completed Development</i>	<i>Likely Significant Effect December 2017 Scheme</i>	<i>Likely Significant Effect February 2018 Scheme</i>
35-36 Derrick Gardens	Negligible	Negligible
37-38 Derrick Gardens	Negligible	Negligible
39-40 Derrick Gardens	Negligible	Negligible
1 – 8 Anchor & Hope Lane	Minor – Moderate adverse	Minor – Moderate adverse
Sunlight		
1-2 Atlas Gardens	Negligible	Negligible
3-4 Atlas Gardens	Negligible	Negligible
5-6 Atlas Gardens	Negligible	Negligible
7-8 Atlas Gardens	Negligible	Negligible
9-10 Atlas Gardens	Negligible	Negligible
11-12 Atlas Gardens	Minor adverse	Minor adverse
13-14 Atlas Gardens	Negligible	Negligible
15-16 Atlas Gardens	Negligible	Negligible
17-18 Atlas Gardens	Negligible	Negligible
19-20 Atlas Gardens	Negligible	Negligible
21-22 Atlas Gardens	Negligible	Negligible
23-24 Atlas Gardens	Negligible	Negligible
25-26 Atlas Gardens	Negligible	Negligible
27-28 Atlas Gardens	Negligible	Negligible
29-30 Atlas Gardens	Minor adverse	Minor adverse
21-22 Derrick Gardens	Negligible	Negligible
23-24 Derrick Gardens	Negligible	Negligible
25-26 Derrick Gardens	Negligible	Negligible
27-28 Derrick Gardens	Negligible	Negligible
29-30 Derrick Gardens	Negligible	Negligible

<i>Effects of the Completed Development</i>	<i>Likely Significant Effect December 2017 Scheme</i>	<i>Likely Significant Effect February 2018 Scheme</i>
31-32 Derrick Gardens	Negligible	Negligible
33-34 Derrick Gardens	Negligible	Negligible
35-36 Derrick Gardens	Negligible	Negligible
37-38 Derrick Gardens	Negligible	Negligible
39-40 Derrick Gardens	Negligible	Negligible
1 – 8 Anchor & Hope Lane	Minor adverse	Minor adverse
Overshadowing to Neighbours	Negligible	Negligible
Overshadowing within the scheme	Minor adverse	Minor adverse
Solar Glare	Minor adverse	Minor adverse

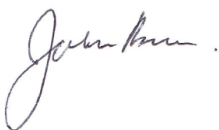
The results of the February 2018 scheme have shown minor alterations to the overall effects upon daylight, sunlight and overshadowing from the December 2017 scheme.

The effects of the daylight sunlight and overshadowing upon the neighbouring residential receptors indicate either no change or an improvement upon levels reported in the December 2017 Chapter. As such, the design updates indicate an overall improvement with the significance for the vast majority of neighbours being considered negligible – minor adverse. The overall significance is considered to be negligible – moderate adverse.

The results of the overshadowing within the Proposed Development have shown minor changes from the levels previously reported with one additional area below the suggested target. These impacts are to be expected and given the marginal nature of the changes, the results remain to be of minor adverse significance.

Finally, the internal daylight and sunlight levels within the proposed residential accommodation has been considered. The window and balcony changes have been driven primarily by privacy / overlooking concerns. As would be expected, the compliance rate decreases slightly, however on balance, the results would be considered in line with the BRE guidelines.

Yours faithfully,



John Barnes
 Director
 On behalf of EB7 Ltd



Appendix 1

Drawings showing the baseline and proposed scenarios

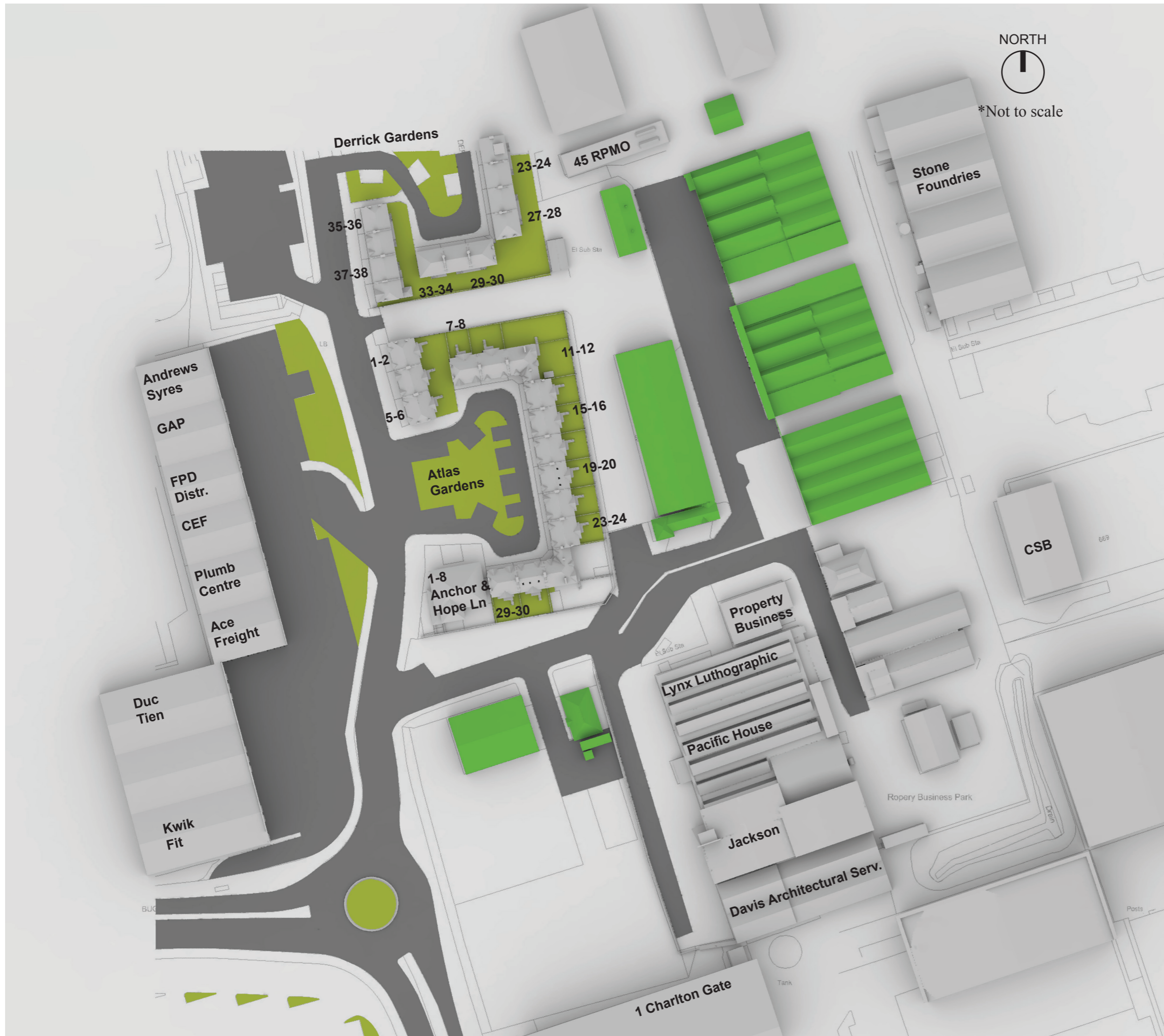
Sources of information

Simpson Haugh
10046-ZO-G200-3_2017-10-16.dwg
Received 05/10/2017

Cloud10
Charlton ROL-26-10-16-Meters.dwg
Received 25/10/2016

Rockwell Residential
22384_OGL_REV-1.dwg
Received 24/10/2016

EB7 Ltd
Site Photographs
Ordnance Survey



Project Charlton Riverside
London
SE7 7RY

Title Existing Condition
Plan View

Drawn BA Checked PS

Date 17/10/2017 Rel no. 27

Drawing no. 1864-01

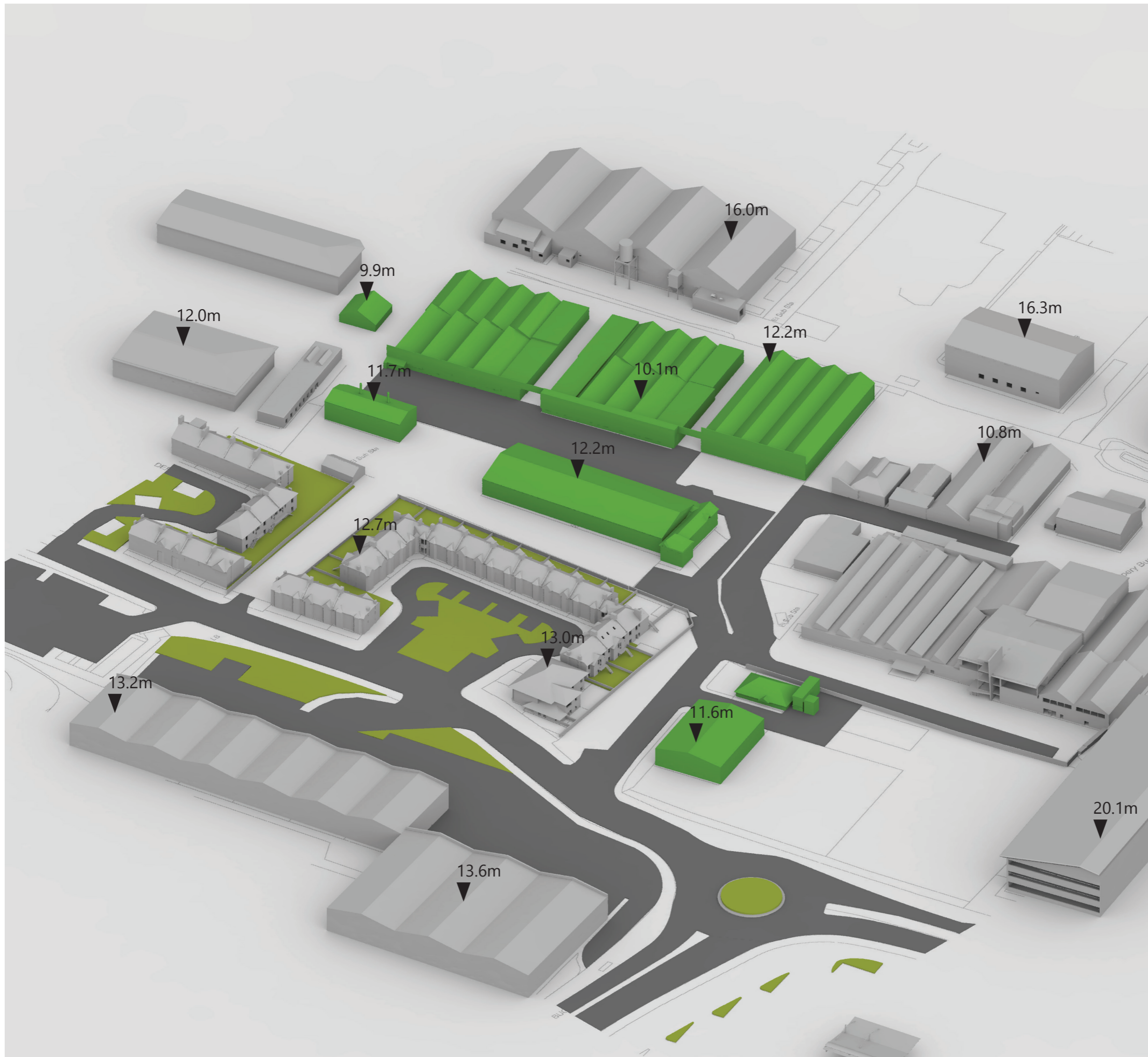
Sources of information

Simpson Haugh
10046-ZO-G200-3_2017-10-16.dwg
Received 05/10/2017

Cloud10
Charlton ROL-26-10-16-Meters.dwg
Received 25/10/2016

Rockwell Residential
22384_OGL_REV-1.dwg
Received 24/10/2016

EB7 Ltd
Site Photographs
Ordnance Survey



Project Charlton Riverside
London
SE7 7RY

Title Existing Condition
3D View

Drawn BA Checked PS

Date 17/10/2017 Rel no. 27

Drawing no. 1864-02

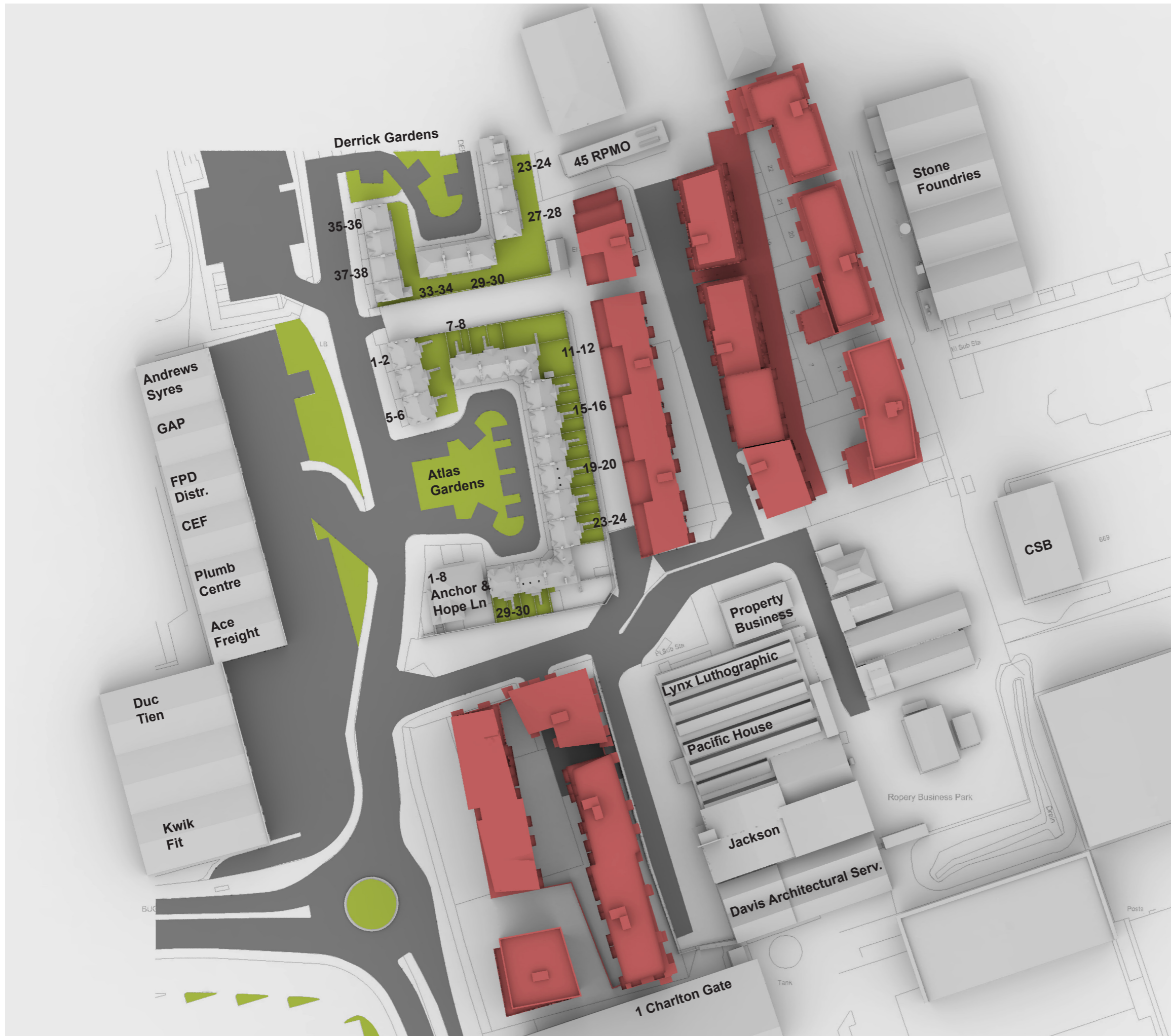
Sources of information

Simpson Haugh
 10046-Z1-G200-3-Plot A&B.dwg
 Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
 Received 16/11/2017

Cloud10
 Charlton ROL-26-10-16-Meters.dwg
 Received 25/10/2016

EB7 Ltd
 Site Photographs
 Ordnance Survey



Project Charlton Riverside
 London
 SE7 7RY

Title Proposed Development
 Plan View

Drawn YH Checked --

Date 20/02//2018 Rel no. 31

Drawing no. 1864-33

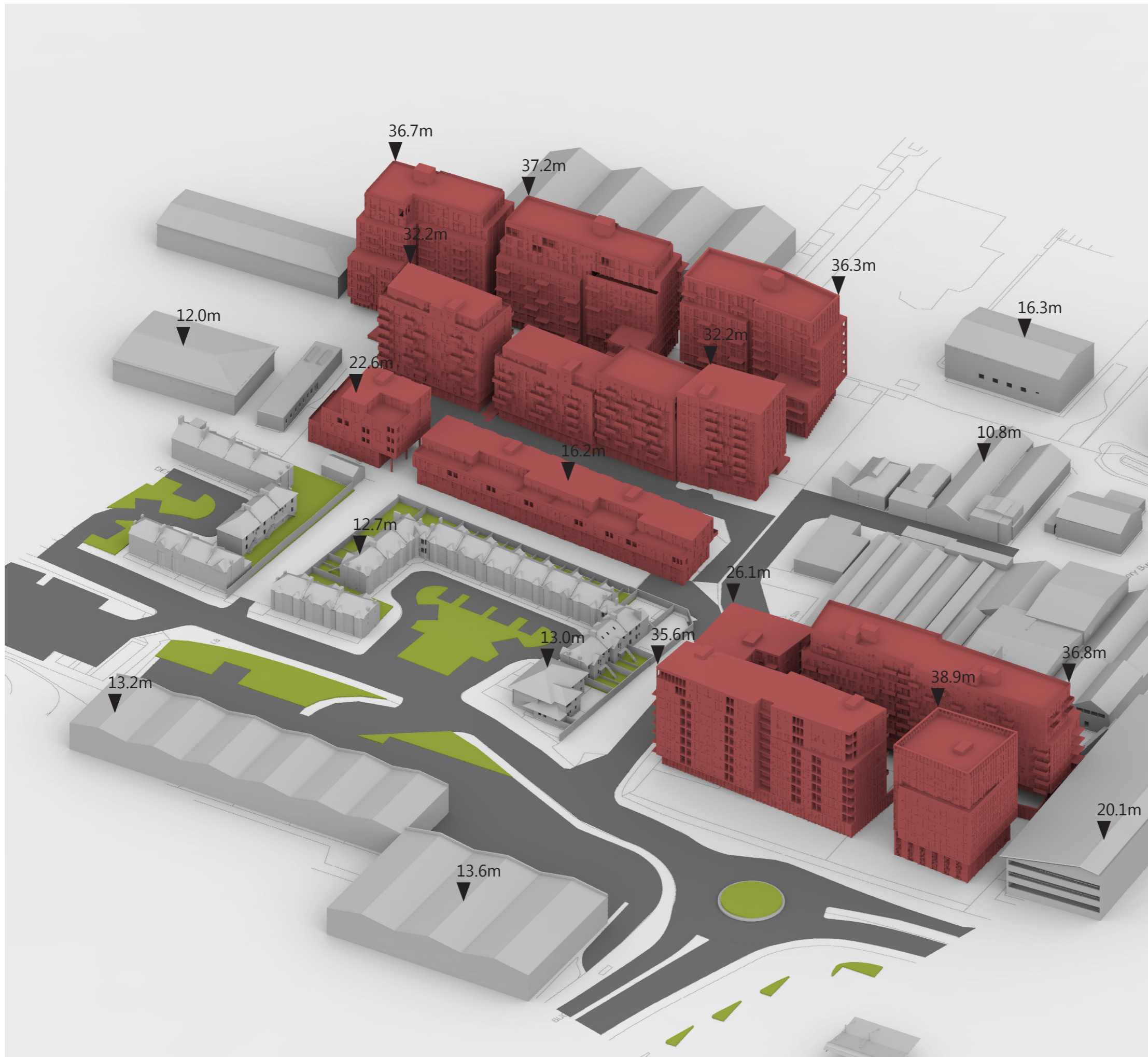
Sources of information

Simpson Haugh
10046-Z1-G200-3-Plot A&B.dwg
Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
Received 16/11/2017

Cloud10
Charlton ROL-26-10-16-Meters.dwg
Received 25/10/2016

EB7 Ltd
Site Photographs
Ordnance Survey



Project Charlton Riverside
London
SE7 7RY

Title Proposed Development
3D View

Drawn YH Checked --

Date 20/02//2018 Rel no. 31

Drawing no. 1864-34



Appendix 2

Detailed daylight (VSC, NSC and ADF) and sunlight (APSH) results – surrounding properties

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 Retained	Winter Retained
				VSC	VSC	%	%		NSC	NSC	%	%	Window	Total	Window	Total	%	%		
1-2 Atlas Gardens																				
Ground	R1	W01-L W01-U	Bedroom	27.3	25.2	2.2	7.9	127.9	123.3	123.3	0.0	0.0	0.0	0.0	0.1	5.9	N/A	N/A	N/A	N/A
													1.2	1.2						
First	R1	W01-L W01-U	Bedroom	31.5	29.2	2.3	7.4	127.9	123.7	123.7	0.0	0.0	0.0	0.0	0.1	5.9	N/A	N/A	N/A	N/A
													1.3	1.3						
3-4 Atlas Gardens																				
Ground	R1	W01-L W01-U	Bedroom	23.5	22.3	1.3	5.3	138.6	124.7	124.7	0.0	0.0	0.0	0.0	0.0	3.6	N/A	N/A	N/A	N/A
													1.0	1.0						
First	R1	W01-L W01-U	Bedroom	30.1	28.7	1.4	4.5	138.6	133.6	133.6	0.0	0.0	0.0	0.0	0.0	3.6	N/A	N/A	N/A	N/A
													1.2	1.2						
5-6 Atlas Gardens																				
Ground	R1	W01-L W01-U	Bedroom	21.7	21.3	0.4	1.6	138.6	117.1	117.1	0.0	0.0	0.0	0.0	0.0	1.1	N/A	N/A	N/A	N/A
													1.0	1.0						
First	R1	W01-L W01-U	Bedroom	29.2	28.3	0.9	2.9	138.6	133.6	133.6	0.0	0.0	0.0	0.0	0.0	2.1	N/A	N/A	N/A	N/A
													1.2	1.2						
7-8 Atlas Gardens																				
Ground	R1	W01-L W01-U	Bedroom	25.5	25.5	0.0	0.0	138.6	131.7	131.7	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
													1.1	1.1						
First	R1	W01-L W01-U	Bedroom	30.0	30.0	0.0	0.0	138.6	133.3	133.3	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
													1.2	1.2						
9-10 Atlas Gardens																				
Ground	R1	W01-L W01-U	Bedroom	25.7	25.7	0.0	0.0	138.6	131.4	131.4	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
													1.1	1.1						
First	R1	W01-L W01-U	Bedroom	29.8	29.8	0.0	0.0	138.6	133.5	133.5	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
													1.2	1.2						
11-12 Atlas Gardens																				
Ground	R1	W01-L W01-U	Bedroom	34.6	32.4	2.2	6.4	135.8	131.9	131.9	0.0	0.0	0.0	0.0	0.1	5.0	N/A	N/A	N/A	N/A
													1.3	1.3						
Ground	R4	W08	Bedroom	25.2	17.9	7.3	29.1	119.1	116.9	116.9	0.0	0.0	0.6	0.5	0.5	18.2	N/A	N/A	N/A	N/A
	R4	W09		34.3	25.7	8.5	24.9						1.6	1.3			N/A	N/A	N/A	N/A
	R4	W10		23.4	18.6	4.8	20.4						0.6	2.8			0.5	2.3	0.5	18.2

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 Retained	Winter Retained				
				VSC	VSC	%	%		NSC	NSC	%	%	Window	Total	Window	Total	%	Total			Winter	Total	Winter	
Ground	R5	W11-L	Bedroom	25.2	19.5	5.8	22.9	154.4	154.4	154.1	0.3	0.2	0.0	0.0	0.2	7.2	N/A	N/A	N/A	N/A	N/A	N/A		
		W11-U		7.6	7.6	0.0	0.0						1.1	0.9			N/A	N/A	N/A	N/A	N/A	N/A		
	W12	24.4	24.2	0.2	0.8	0.2	0.2						44	15			44	15	1.0	1.0				
	W14	26.6	26.1	0.4	1.7	0.5	2.8						0.5	2.6			0.2	0.2	43	14	43	14	1.0	1.0
First	R1	W01-L	Bedroom	35.2	33.2	2.0	5.7	135.8	131.6	131.5	0.0	0.0	0.0	0.0	0.1	4.5	N/A	N/A	N/A	N/A	N/A	N/A		
		W01-U		28.2	21.5	6.7	23.8						0.0	0.0			N/A	N/A	N/A	N/A	N/A	N/A		
First	R4	W08-L	Unknown	36.7	28.9	7.8	21.3	119.1	117.8	117.8	0.0	0.0	0.0	0.0	0.5	16.2	N/A	N/A	N/A	N/A	N/A	N/A		
		W08-U		27.7	23.1	4.5	16.4						0.6	2.8			0.6	2.3	0.5	16.2	40	6	33	3
	W09-L	29.1	23.0	6.1	21.0	0.0	0.0						N/A	N/A			N/A	N/A	N/A	N/A				
	W09-U	13.1	13.1	0.0	0.0	0.0	0.0						N/A	N/A			N/A	N/A	N/A	N/A				
First	R5	W12-L	Bedroom	31.2	31.0	0.2	0.7	154.5	154.5	154.5	0.0	0.0	0.0	0.0	0.2	6.4	49	17	49	17	1.0	1.0		
		W12-U		28.4	28.0	0.5	1.7						0.0	0.0			47	15	47	15	1.0	1.0		
	W13-L	0.0	0.0	0.0	0.0	0.0	0.0						0.0	0.0			0.0	0.0	0.0	0.0				
	W13-U	0.0	0.0	0.0	0.0	0.0	0.0						0.0	0.0			0.0	0.0	0.0	0.0				
13-14 Atlas Gardens	Ground	R1	W01-L	Bedroom	26.8	19.7	7.1	26.6	138.6	131.4	108.6	22.9	17.4	0.0	0.0	0.2	18.8	N/A	N/A	N/A	N/A	N/A	N/A	
														W01-U	31.9			25.2	6.7	21.1	1.1	1.1	0.9	0.9
	First	R1	W01-L	Bedroom	31.9	25.2	6.7	21.1	138.6	133.5	133.5	0.0	0.0	0.0	0.0	0.2	16.1	N/A	N/A	N/A	N/A	N/A	N/A	
														W01-U	0.0			0.0	1.3	1.3	1.1	1.1	0.2	16.1
15-16 Atlas Gardens	Ground	R1	W01-L	Bedroom	26.0	19.5	6.5	24.9	138.6	131.4	109.6	21.9	16.6	0.0	0.0	0.2	17.3	N/A	N/A	N/A	N/A	N/A	N/A	
														W01-U	31.1			24.9	6.2	20.0	1.1	1.1	0.9	0.9
	First	R1	W01-L	Bedroom	31.1	24.9	6.2	20.0	138.6	133.7	133.7	0.0	0.0	0.0	0.0	0.2	14.9	N/A	N/A	N/A	N/A	N/A	N/A	
														W01-U	0.0			0.0	1.3	1.3	1.1	1.1	0.2	14.9
17-18 Atlas Gardens	Ground	R1	W01-L	Bedroom	25.9	19.7	6.2	23.8	138.6	131.4	107.2	24.2	18.4	0.0	0.0	0.2	16.4	N/A	N/A	N/A	N/A	N/A	N/A	
														W01-U	31.2			25.0	6.2	19.9	1.1	1.1	0.9	0.9
	First	R1	W01-L	Bedroom	31.2	25.0	6.2	19.9	138.6	131.4	107.2	24.2	18.4	0.0	0.0	0.2	16.4	N/A	N/A	N/A	N/A	N/A	N/A	
														W01-U	0.0			0.0	1.1	1.1	0.9	0.9	0.2	16.4

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	Total	Window	Total	%	%	Total	Winter	Total	Winter	Retained	Retained	
			W01-U					138.6	133.6	133.6	0.0	0.0	1.3	1.3	1.1	1.1	0.2	14.8							
19-20 Atlas Gardens																									
Ground	R1	W01-L	Bedroom	26.3	20.3	6.1	23.1							0.0		0.0				N/A	N/A	N/A	N/A	N/A	N/A
		W01-U						138.6	131.6	108.0	23.7	18.0	1.1	1.1	0.9	0.9	0.2	16.0							
First	R1	W01-L	Bedroom	31.6	25.4	6.2	19.7							0.0		0.0				N/A	N/A	N/A	N/A	N/A	N/A
		W01-U						138.6	133.6	133.6	0.0	0.0	1.3	1.3	1.1	1.1	0.2	14.7							
Second	R1	W01	Unknown	85.7	81.2	4.5	5.3							0.8	0.8	0.8	0.8	0.0	3.4	N/A	N/A	N/A	N/A	N/A	N/A
Second	R2	W02	Unknown	86.9	82.5	4.5	5.1							1.1	1.1	1.1	1.1	0.0	3.3	N/A	N/A	N/A	N/A	N/A	N/A
Second	R3	W03	Unknown	85.6	81.3	4.3	5.1							1.3	1.3	1.3	1.3	0.0	3.3	N/A	N/A	N/A	N/A	N/A	N/A
21-22 Atlas Gardens																									
Ground	R1	W01-L	Bedroom	26.2	20.3	5.9	22.6							0.0		0.0				N/A	N/A	N/A	N/A	N/A	N/A
		W01-U						138.6	131.0	113.8	17.2	13.1	1.1	1.1	0.9	1.0	0.2	15.5							
First	R1	W01-L	Bedroom	31.5	25.5	6.0	19.0							0.0		0.0				N/A	N/A	N/A	N/A	N/A	N/A
		W01-U						138.6	133.3	133.3	0.0	0.0	1.3	1.3	1.1	1.1	0.2	14.4							
23-24 Atlas Gardens																									
Ground	R1	W01-L	Bedroom	26.2	20.3	5.9	22.5							0.0		0.0				N/A	N/A	N/A	N/A	N/A	N/A
		W01-U						138.6	131.0	114.5	16.5	12.6	1.1	1.1	0.9	1.0	0.2	15.3							
First	R1	W01-L	Bedroom	31.6	25.6	6.0	19.0							0.0		0.0				N/A	N/A	N/A	N/A	N/A	N/A
		W01-U						138.6	133.2	133.2	0.0	0.0	1.3	1.3	1.1	1.1	0.2	14.3							
25-26 Atlas Gardens																									
Ground	R1	W01-L	Bedroom	26.3	23.1	3.2	12.2							0.0		0.0				N/A	N/A	N/A	N/A	N/A	N/A
		W01-U												1.1		1.0									
	R1	W02		27.2	27.2	0.0	0.0							0.6		0.6				N/A	N/A	N/A	N/A	N/A	N/A
	R1	W03		24.6	24.6	0.0	0.0							1.0		1.0				14	0	14	0	1.0	0.0
	R1	W04		7.8	7.8	0.0	0.0	155.7	155.7	155.7	0.0	0.0	0.2	2.9	0.2	2.8	0.1	3.3		12	0	12	0	1.0	0.0
Ground	R2	W05	Unknown	23.4	19.7	3.7	15.8							0.6		0.5				N/A	N/A	N/A	N/A	N/A	N/A
	R2	W06		34.6	30.7	3.9	11.2							1.6		1.4				N/A	N/A	N/A	N/A	N/A	N/A
	R2	W07		25.7	24.1	1.6	6.0	119.1	116.9	116.9	0.0	0.0	0.6	2.8	0.6	2.6	0.2	8.3		31	3	27	3	0.9	1.0
Ground	R5	W14-L	Bedroom	35.6	26.7	9.0	25.2							0.0		0.0				82	27	68	13	0.8	0.5
		W14-U						135.8	131.6	90.3	41.3	31.4	1.3	1.4	1.1	1.1	0.3	20.8							
First	R1	W01-L	Bedroom	29.0	25.9	3.1	10.6							0.0		0.0				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	Total	Window	Total	%	Total	Winter	Total	Winter	Retained	Retained	
First	R1	W01-U	Bedroom	29.2	29.2	0.0	0.0	155.7	155.7	155.7	0.0	0.0	1.2	1.1	0.1	3.1	N/A	N/A	N/A	N/A	N/A	N/A		
		W02-L		0.0	0.0	N/A	N/A						N/A	N/A			N/A	N/A						
	W02-U	0.5	0.5	36	2	36	2						1.0	1.0										
	W03-L	31.3	31.3	0.0	0.0	0.0	0.0						21	0			21	0	1.0	0.0				
	W03-U	1.1	1.1	0.0	0.0	0.0	0.0						0.2	3.2			0.2	3.1	0.1	3.1				
	W04-L	13.2	13.2	0.0	0.0	0.2	3.2						0.2	3.1			0.1	3.1						
	W04-U	0.0	0.0	21	0	21	0						1.0	0.0										
First	R2	W05-L	Bedroom	27.6	23.9	3.7	13.5	119.1	118.0	118.0	0.0	0.0	0.0	0.0	0.2	2.6	N/A	N/A	N/A	N/A	N/A	N/A		
		W05-U		0.6	0.6	N/A	N/A						N/A	N/A			N/A	N/A						
	W06-L	36.7	32.7	3.9	10.7	0.0	0.0						N/A	N/A			N/A	N/A	N/A	N/A				
	W06-U	1.5	1.4	38	6	35	6						0.9	1.0										
W07-L	28.7	27.1	1.5	5.4	0.0	0.0	0.6	2.8	0.6	2.6	0.2	8.1												
W07-U	0.0	0.0	0.6	2.8	0.6	2.6	0.2	8.1																
First	R5	W14-L	Bedroom	35.7	27.3	8.4	23.5	135.8	131.6	95.0	36.6	27.8	0.0	0.0	0.3	19.8	81	28	70	17	0.9	0.6		
		W14-U		1.3	1.3	1.0	1.1						0.3	19.8										
27-28 Atlas Gardens																								
Ground	R1	W01-L	Bedroom	27.8	20.1	7.7	27.6	138.6	131.7	102.3	29.4	22.3	0.0	0.0	0.2	19.4	59	18	47	6	0.8	0.3		
		W01-U		1.2	1.2	1.0	1.0						0.2	19.4										
First	R1	W01-L	Bedroom	31.9	24.1	7.8	24.3	138.6	133.6	108.9	24.7	18.5	0.0	0.0	0.2	18.5	72	22	61	11	0.8	0.5		
		W01-U		1.3	1.3	1.1	1.1						0.2	18.5										
Second	R2	W01	Unknown	85.2	79.2	6.0	7.0	107.4	83.5	82.2	1.3	1.5	1.0	1.0	0.9	0.9	0.1	5.1	94	30	85	21	0.9	0.7
Second	R3	W02	Unknown	85.9	79.6	6.3	7.3	49.3	36.5	36.5	0.0	0.0	1.6	1.6	1.6	1.6	0.1	5.4	93	30	84	21	0.9	0.7
Second	R4	W03	Unknown	84.6	78.1	6.5	7.7	44.8	34.1	34.1	0.0	0.0	1.7	1.7	1.6	1.6	0.1	5.6	92	29	83	20	0.9	0.7
29-30 Atlas Gardens																								
Ground	R1	W01-L	Bedroom	26.5	17.0	9.4	35.7	138.6	131.3	83.8	47.5	36.2	0.0	0.0	0.3	25.1	56	17	41	2	0.7	0.1		
		W01-U		1.2	1.2	0.9	0.9						0.3	25.1										
First	R1	W01-L	Bedroom	31.2	21.6	9.6	30.7	138.6	133.4	93.0	40.5	30.3	0.0	0.0	0.3	23.1	71	22	58	9	0.8	0.4		
		W01-U		1.3	1.3	1.0	1.0						0.3	23.1										
21-22 Derrick Gardens																								
Ground	R1	W01-L	Bedroom	33.6	28.9	4.6	13.8	85.4	82.8	82.8	0.0	0.0	0.0	0.0	0.2	11.2	N/A	N/A	N/A	N/A	N/A	N/A		
		W01-U		1.9	1.9	1.6	1.6						0.2	11.2										
First	R1	W01-L	Bedroom	35.0	30.2	4.8	13.7	85.4	82.8	82.8	0.0	0.0	0.0	0.0	0.2	11.6	N/A	N/A	N/A	N/A	N/A	N/A		
		W01-U		1.8	1.8	1.6	1.6						0.2	11.6										

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 Retained	Winter Retained			
				VSC	VSC				NSC	NSC			Window	Total	Window	Total			Total	Winter	Total	Winter					
Second	R1	W01	Unknown	34.1	29.5	4.6	13.4	77.5	69.6	69.6	0.0	0.0	1.5	1.5	1.3	1.3	0.2	11.3	N/A	N/A	N/A	N/A	N/A	N/A			
23-24 Derrick Gardens																											
Ground	R3	W05-L W05-U	Bedroom	35.0	28.7	6.3	18.1	85.4	82.2	82.2	0.0	0.0	0.0	1.9	1.9	1.6	1.6	0.3	15.0	N/A	N/A	N/A	N/A	N/A	N/A		
First	R3	W05-L W05-U	Bedroom	35.6	29.3	6.4	17.9	85.4	82.2	82.2	0.0	0.0	0.0	1.8	1.9	1.6	1.6	0.3	15.2	N/A	N/A	N/A	N/A	N/A	N/A		
25-26 Derrick Gardens																											
Ground	R1	W01-L W01-U	Bedroom	35.2	28.3	7.0	19.8	85.4	82.6	81.1	1.5	1.9	0.0	1.9	1.9	1.6	1.6	0.3	16.4	N/A	N/A	N/A	N/A	N/A	N/A		
First	R1	W01-L W01-U	Bedroom	35.7	28.8	7.0	19.5	85.4	82.6	82.5	0.1	0.2	0.0	1.9	1.9	1.5	1.6	0.3	16.5	N/A	N/A	N/A	N/A	N/A	N/A		
27-28 Derrick Gardens																											
Ground	R3	W05-L W05-U	Bedroom	35.1	25.9	9.2	26.2	85.4	82.5	78.9	3.6	4.4	0.0	1.9	1.9	1.5	1.5	0.4	21.3	N/A	N/A	N/A	N/A	N/A	N/A		
First	R3	W05-L W05-U	Bedroom	35.7	26.5	9.2	25.8	85.4	82.5	82.5	0.0	0.0	0.0	1.9	1.9	1.5	1.5	0.4	21.4	N/A	N/A	N/A	N/A	N/A	N/A		
29-30 Derrick Gardens																											
Ground	R1	W01-L W01-U	Bedroom	34.3	32.6	1.7	5.0	136.3	129.9	129.9	0.1	0.1	0.0	1.3	1.3	1.3	1.3	0.0	3.7	83	26	77	24	0.9	0.9		
First	R1	W01-L W01-U	Bedroom	34.7	32.8	1.9	5.4	136.3	129.9	129.8	0.1	0.1	0.0	1.3	1.3	1.2	1.2	0.1	4.1	85	30	80	28	0.9	0.9		
31-32 Derrick Gardens																											
Ground	R3	W05-L W05-U	Bedroom	33.3	32.5	0.7	2.2	136.3	129.6	129.6	0.0	0.0	0.0	1.3	1.3	1.3	1.3	0.0	1.7	80	27	78	25	1.0	0.9		
First	R3	W05-L W05-U	Bedroom	34.4	33.2	1.2	3.6	136.3	129.6	129.6	0.0	0.0	0.0	1.3	1.3	1.2	1.2	0.0	2.7	82	29	80	27	1.0	0.9		
33-34 Derrick Gardens																											
Ground	R3	W05-L W05-U	Bedroom	32.9	32.0	0.8	2.5	136.3	129.3	129.3	0.0	0.0	0.0	1.3	1.3	1.2	1.3	0.0	2.0	80	26	79	25	1.0	1.0		
First	R3	W05-L W05-U	Bedroom	34.1	32.8	1.3	3.7	136.3	129.2	129.2	0.0	0.0	0.0	1.2	1.3	1.2	1.2	0.0	2.9	80	27	78	25	1.0	0.9		

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	Total	Window	Total	%	%	Total	Winter	Total	Winter	Retained	Retained	
35-36 Derrick Gardens																									
Ground	R1	W01-L W01-U	Bedroom	33.5	32.6	0.9	2.8	106.0	101.6	101.6	0.0	0.0	0.0	1.6	1.6	0.0	1.6	0.0	2.4	N/A	N/A	N/A	N/A	N/A	N/A
First	R1	W01-L W01-U	Bedroom	34.3	32.7	1.6	4.6	106.0	101.6	101.6	0.0	0.0	0.0	1.6	1.6	0.0	1.5	0.1	3.9	N/A	N/A	N/A	N/A	N/A	N/A
37-38 Derrick Gardens																									
Ground	R3	W04-L W04-U	Bedroom	30.5	29.9	0.6	2.0	141.8	133.3	133.3	0.0	0.0	0.0	1.3	1.3	0.0	1.2	0.0	1.5	N/A	N/A	N/A	N/A	N/A	N/A
First	R3	W04-L W04-U	Bedroom	33.2	32.1	1.1	3.4	141.8	135.3	135.3	0.0	0.0	0.0	1.3	1.3	0.0	1.2	0.0	2.8	N/A	N/A	N/A	N/A	N/A	N/A
39-40 Derrick Gardens																									
Ground	R1	W01-L W01-U	Bedroom	28.7	28.6	0.1	0.4	141.8	128.2	128.1	0.0	0.0	0.0	1.2	1.2	0.0	1.2	0.0	0.3	N/A	N/A	N/A	N/A	N/A	N/A
Ground	R4	W05-L W05-U	Bedroom	26.5	24.8	1.8	6.6	153.3	140.9	132.2	8.7	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A
	R4	W06-L W06-U		23.6	22.1	1.5	6.2						0.0	0.4	0.9	0.4	0.9	0.0	4.5	N/A	N/A	N/A	N/A	N/A	N/A
Ground	R5	W07	Unknown	30.2	27.8	2.4	7.9	85.4	83.4	83.4	0.0	0.0	1.2	0.0	1.2	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A
		W08-L W08-U		29.2	27.5	1.7	5.9						0.1	0.8	2.2	0.1	2.0	0.1	6.0	N/A	N/A	N/A	N/A	N/A	N/A
First	R1	W01-L W01-U	Bedroom	32.5	32.0	0.5	1.5	141.8	135.3	135.3	0.0	0.0	0.0	1.3	1.3	0.0	1.2	0.0	1.3	N/A	N/A	N/A	N/A	N/A	N/A
First	R4	W05-L W05-U	Bedroom	33.7	31.5	2.2	6.6	106.0	102.3	102.3	0.0	0.0	0.0	1.5	1.6	0.0	1.5	0.1	5.5	N/A	N/A	N/A	N/A	N/A	N/A
1 to 8 Anchor & Hope Lane																									
Ground	R1	W01	Unknown	24.3	24.3	0.0	0.0	70.1	67.8	67.8	0.0	0.0	1.1	1.1	1.1	1.1	0.0	0.0	33	11	33	11	1.0	1.0	
Ground	R2	W02	Unknown	24.3	24.3	0.0	0.0	50.7	50.0	50.0	0.0	0.0	1.3	1.3	1.3	1.3	0.0	0.0	33	11	33	11	1.0	1.0	
Ground	R3	W03	Unknown	20.2	20.2	0.0	0.0	43.6	38.2	38.2	0.0	0.0	0.4	0.4	0.4	0.4	0.0	0.0	27	8	27	8	1.0	1.0	
Ground	R4	W04-L W04-U	Unknown	29.8	21.2	8.6	28.8	149.1	147.8	129.7	18.0	12.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	71	20	52	6	0.7	0.3
		W05		35.6	25.5	10.1	28.3						0.9	0.9	1.9	0.7	1.5	0.4	22.9	86	28	67	13	0.8	0.5

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 Retained	Winter Retained				
				VSC	VSC	%	NSC		NSC	%	Window	Total	Window	Total	%	Total	Winter	Total			Winter			
Ground	R5	W06	Unknown	35.7	25.0	10.6	29.8	134.2	130.7	103.7	26.9	20.6	1.0	1.0	0.7	0.7	0.2	24.5	88	29	70	15	0.8	0.5
Ground	R6	W07-L	Unknown	22.7	13.3	9.5	41.6	181.4	171.7	165.9	5.8	3.4	0.1	0.0					49	16	33	2	0.7	0.1
	R6	W08		28.1	18.4	9.7	34.5						0.6	0.4					59	20	43	5	0.7	0.3
Ground	R7	W09	Unknown	34.6	24.1	10.5	30.2	172.4	169.6	151.5	18.1	10.7	0.8	0.6					80	26	64	10	0.8	0.4
	R7	W10-L		28.2	20.1	8.1	28.6						0.1	0.0					61	21	46	6	0.8	0.3
		W10-U											0.7	1.6	0.6	1.2	0.4	22.7						
First	R1	W01	Unknown	32.8	23.0	9.8	29.8	149.1	148.0	141.0	7.0	4.8	2.2	2.2	1.7	1.7	0.5	23.8	80	30	64	15	0.8	0.5
First	R2	W02	Unknown	32.7	22.2	10.6	32.3	134.2	130.5	105.4	25.1	19.3	0.9	0.9	0.6	0.6	0.2	25.9	82	30	67	16	0.8	0.5
First	R3	W03	Unknown	27.4	18.1	9.4	34.1	181.4	169.2	138.6	30.6	18.1	0.6	0.6	0.5	0.5	0.2	26.0	66	21	55	10	0.8	0.5
First	R4	W04	Unknown	32.4	22.3	10.1	31.3	172.4	172.3	154.5	17.8	10.3	0.7	0.6					78	27	63	12	0.8	0.4
	R4	W05-L		26.4	18.2	8.2	31.1						0.1	0.1					53	23	38	8	0.7	0.3
		W05-U											0.5	1.4	0.4	1.0	0.3	25.5						



Appendix 3

Sunlight amenity assessment

YES
 BRE's Sun On Ground
 Area seeing at least two
 hours of sunlight

NO
 Day: 21st March
 Latitude: 51.4°N
 Effective day length: 10 hours
 *Min solar angle 10°
 (BR209 3.3.8)

Title
 Overshadowing Assessments
 External Areas

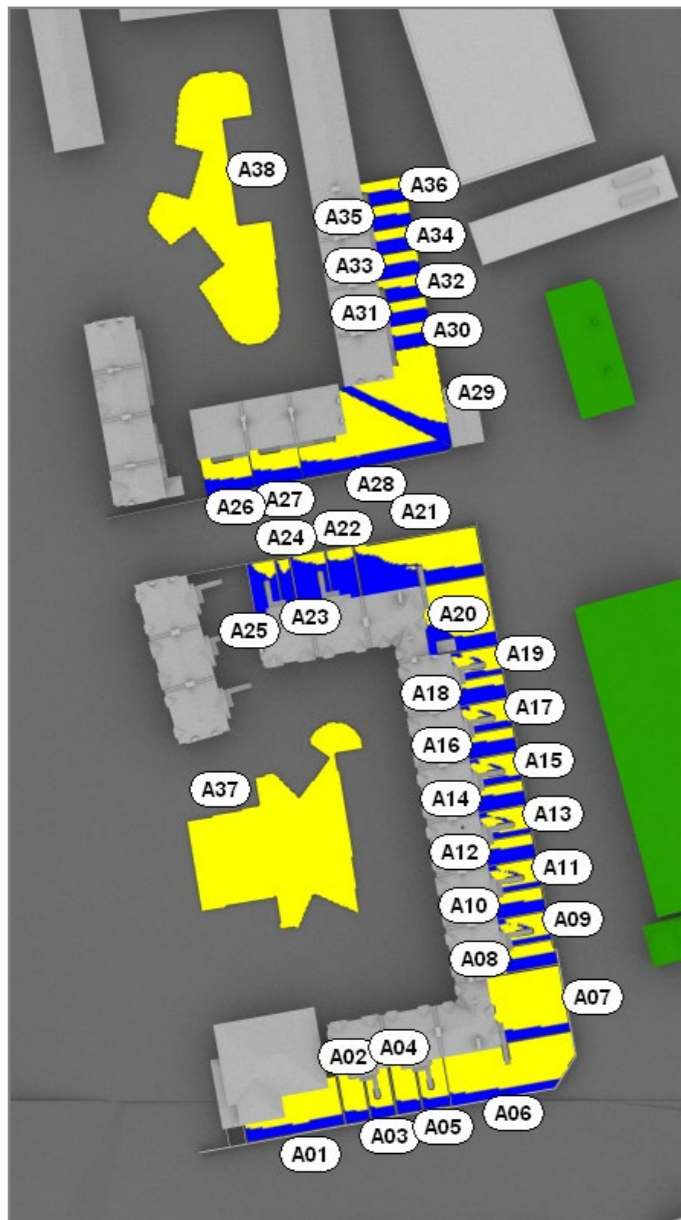


Fig. 1: BRE's Sun On Ground - Existing Scenario

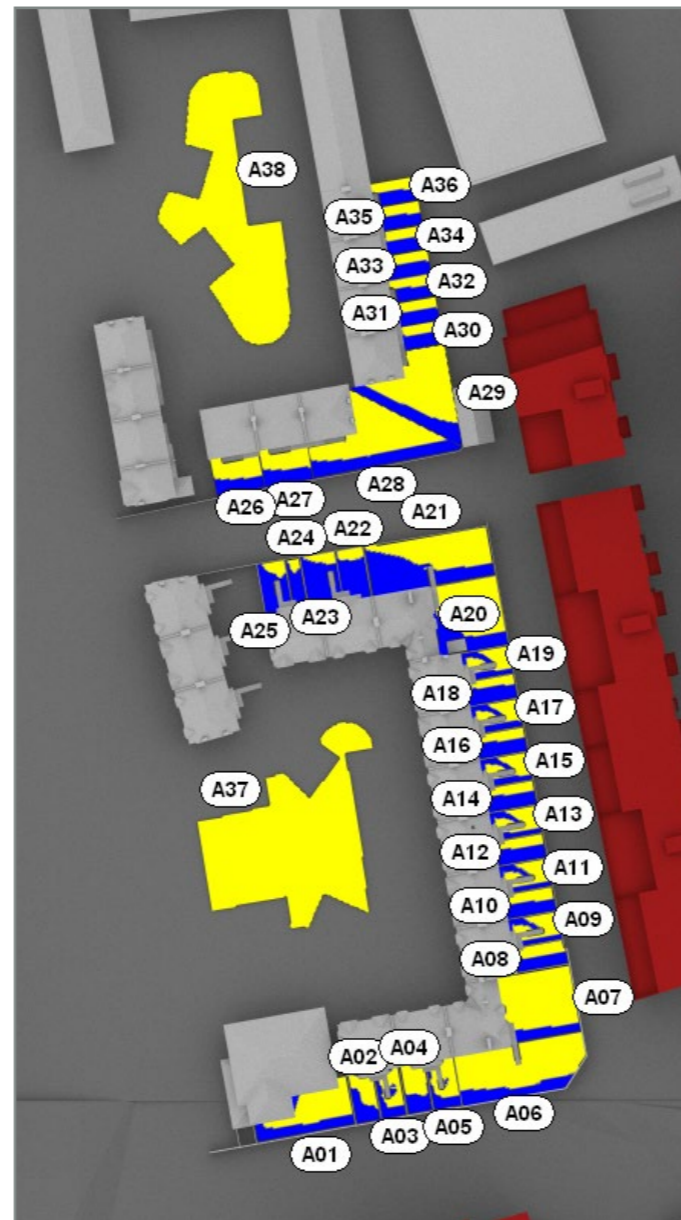


Fig. 2: BRE's Sun On Ground - Proposed Scenario

Zone Name	Area (m2)	Sunlit Area*		
		Existing [%]	Proposed [%]	Loss [%]
A01	99.7	68.3	62.5	8.5
A02	34.6	75.0	50.3	33.0
A03	35.2	74.9	55.1	26.3
A04	35.3	73.3	58.8	19.9
A05	38.5	75.2	65.0	13.5
A06	178.1	82.9	79.2	4.5
A07	143.3	84.9	84.9	0.0
A08	35.2	46.5	46.5	0.0
A09	39.5	71.9	63.0	12.4
A10	34.0	43.5	43.5	0.0
A11	39.2	72.5	64.0	11.7
A12	33.6	39.3	39.3	0.0
A13	38.9	70.1	61.9	11.7
A14	33.4	38.9	38.9	0.0
A15	38.7	69.1	59.1	14.4
A16	33.6	38.3	38.3	0.0
A17	38.5	66.8	57.5	13.8
A18	32.6	34.8	34.8	0.0
A19	38.1	68.3	59.4	13.0
A20	129.3	75.7	73.1	3.5
A21	179.2	54.9	51.8	5.6
A22	38.8	21.1	21.1	0.0
A23	50.3	16.7	16.7	0.0
A24	20.4	20.7	20.7	0.0
A25	39.0	21.4	21.4	0.0
A26	52.1	60.0	60.0	0.0
A27	50.0	57.9	57.9	0.0
A28	174.6	68.0	68.0	0.0
A29	149.9	73.4	71.7	2.3
A30	32.0	41.8	37.6	9.9
A31	32.0	41.2	36.0	12.7
A32	29.1	42.6	41.3	2.9
A33	30.4	40.1	40.1	0.0
A34	33.0	43.4	38.2	12.0
A35	33.3	44.0	42.9	2.5
A36	30.1	48.8	48.8	0.0
A37	557.2	100.0	100.0	0.0
A38	486.9	100.0	100.0	0.0

*Sunlit Area = Area receiving >2hrs. of sunlight on 21st March

Table 1: Results



Project: Charlton Riverside
 Greenwich

Reference: 1864_SA04ext

Drawn: VL Checked: -

Date: 19/2/2018 Rel no.: 01

Drawing no.: 1864_SA04ext-1

BRE's Sun On Ground
 Area seeing at least two hours of sunlight

YES

NO

Day: 21st March
 Latitude: 51.4°N
 Effective day length: 10 hours
 *Min solar angle 10°
 (BR209 3.3.8)

Zone Name	Area (m2)	Sunlit Area* (%)
A-eco-walk	843.3	99.0
A-family-centre	2,299.1	44.2
A-public-spine	1,999.8	96.8
A-roof-play-1	415.2	94.6
A-roof-play-2	500.1	97.0
A-roof-play-3	547.3	96.3
B-commercial-area	1,313.4	80.9
B-residential-garden	1,159.8	16.9
B-roof-play	900.4	97.4

*Sunlit Area = Area receiving at least 2hrs. of sunlight on 21st March

Table 1: Results

Title

BRE's Sun-On-Ground
 Internal Areas



Fig. 1: BRE's Sun On Ground - Proposed Scenario - North Site

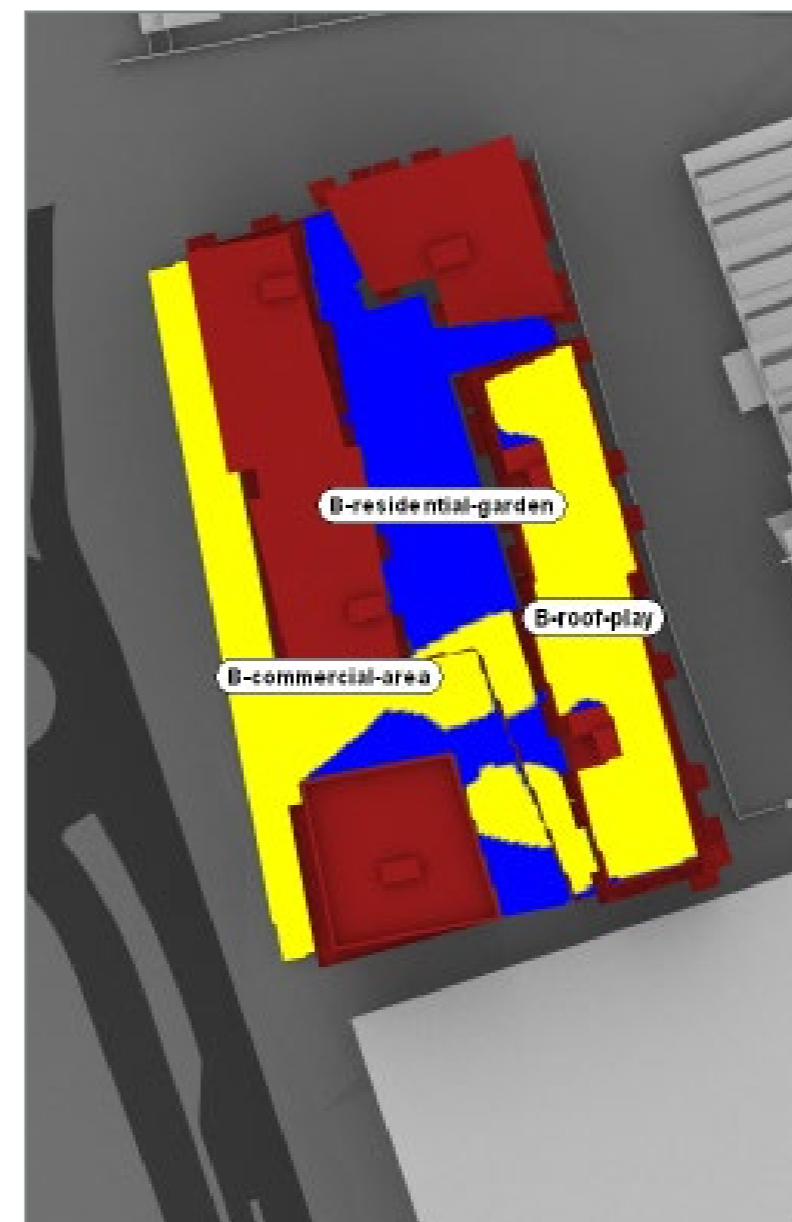


Fig. 2: BRE's Sun On Ground - Proposed Scenario - South Site



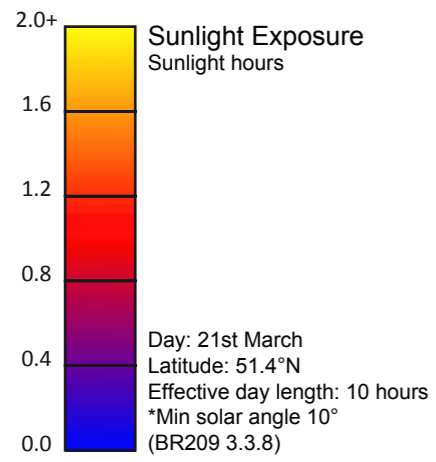
Project Charlton Riverside
 Greenwich

Reference 1864_SA04int

Drawn VL Checked -

Date 19/2/2018 Rel no. 01

Drawing no. 1864_SA04int-1



Title
 Sunlight Exposure
 Internal Areas



Fig. 3: Sunlight exposure 21st March - Proposed Scenario - North Site

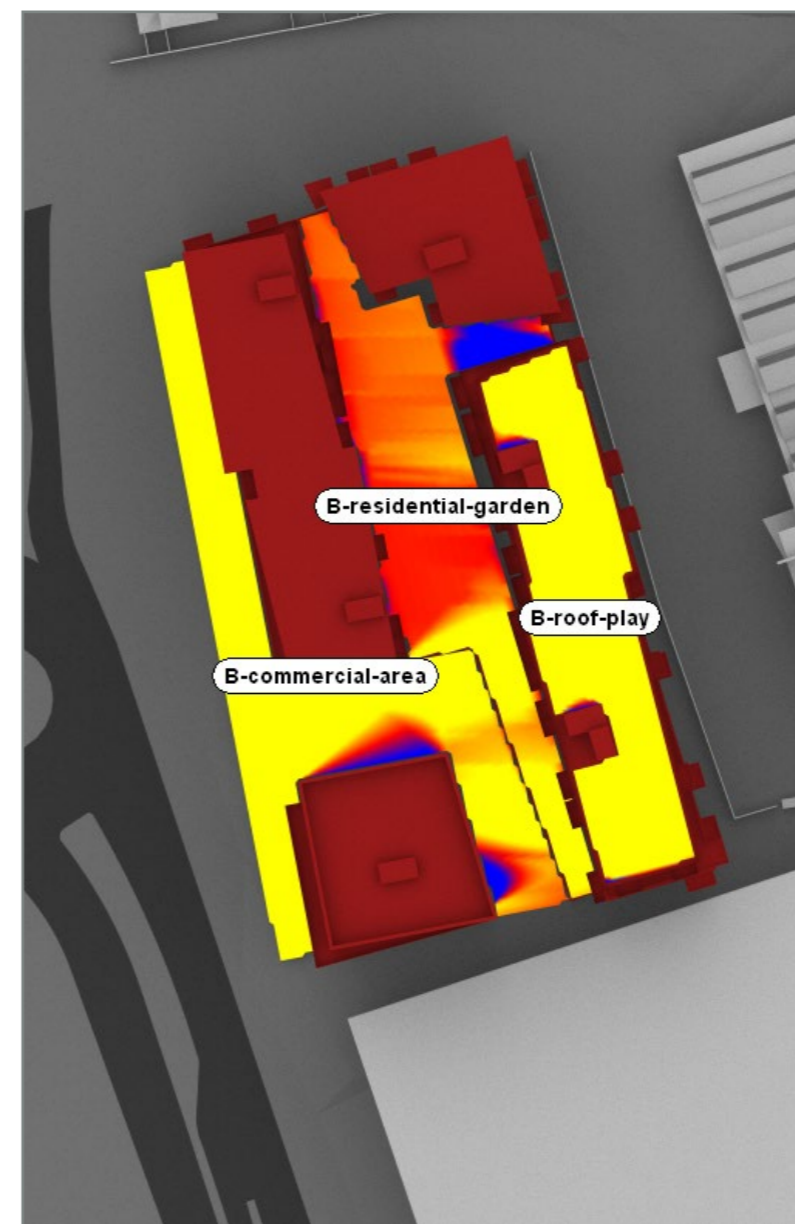


Fig. 4: Sunlight exposure 21st March - Proposed Scenario - South Site



Project Charlton Riverside
 Greenwich

Reference 1864_SA04int

Drawn VL Checked -

Date 19/2/2018 Rel no. 01

Drawing no. 1864_SA04int-2



Appendix 4

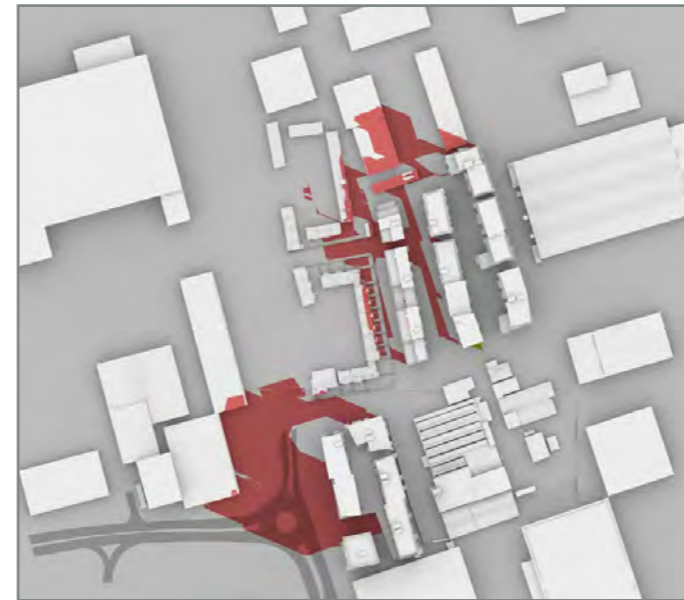
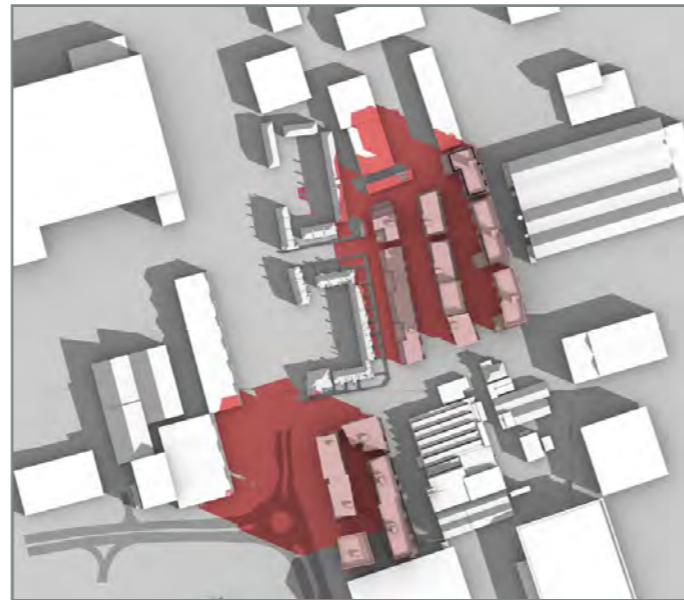
Transient overshadowing assessment

Existing Scenario

Proposed Scenario

Difference

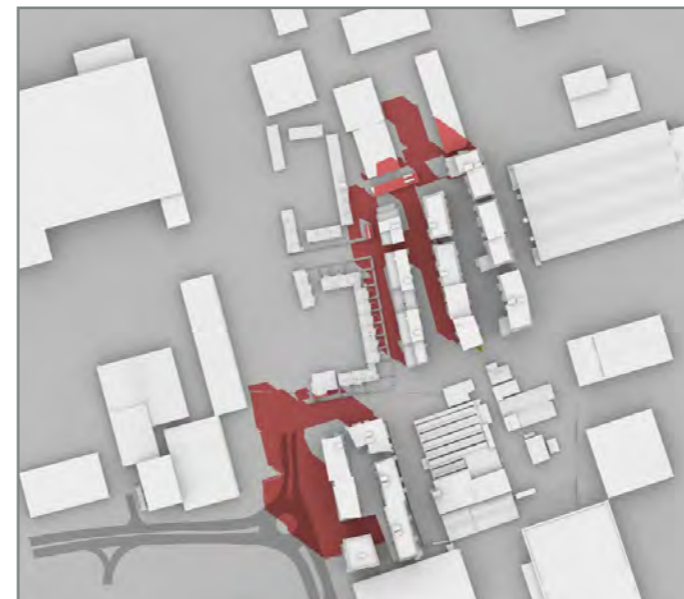
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Title

Transient Overshadowing
 Hourly Shadows
 21st March

9:00GMT



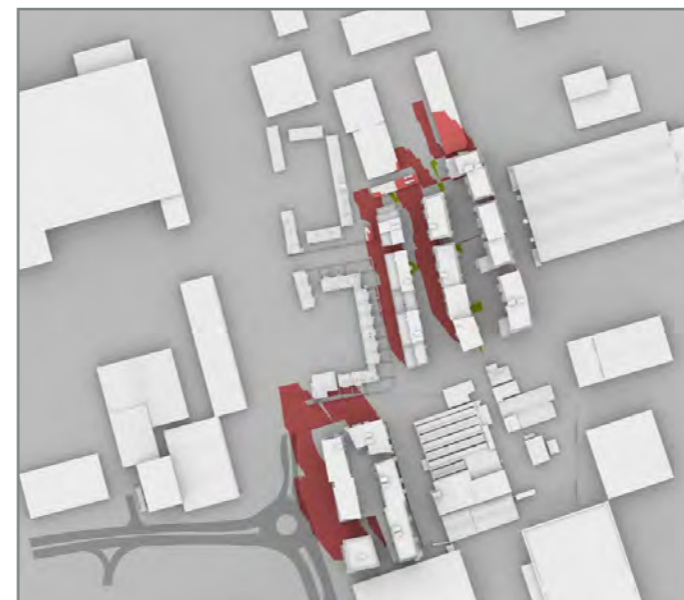
Existing

Proposed

NORTH

Latitude: 51.4N
 Min. solar altitude 10 degrees
 (BR209 3.3.8)

10:00GMT



Project Charlton Riverside
 London

Reference 1864_TS04

Drawn VL Checked ON

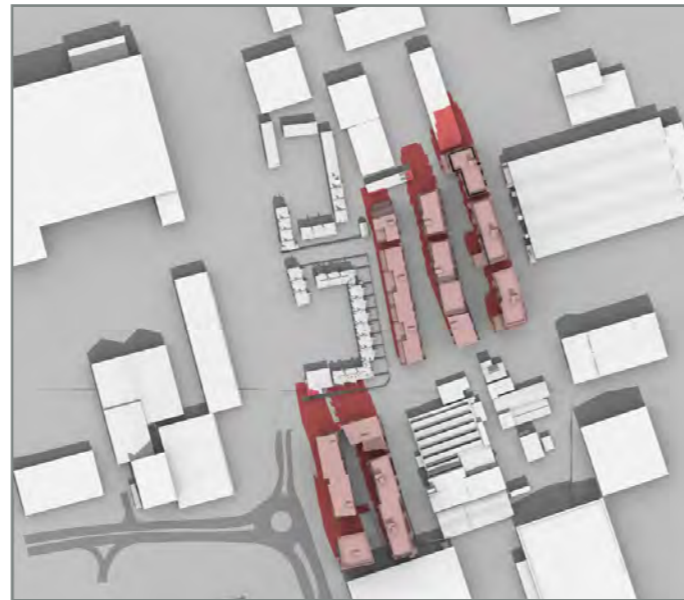
Date 19/2/2018 Rel no. 01

Drawing no. 1864_TS04-5

Existing Scenario



Proposed Scenario



Difference

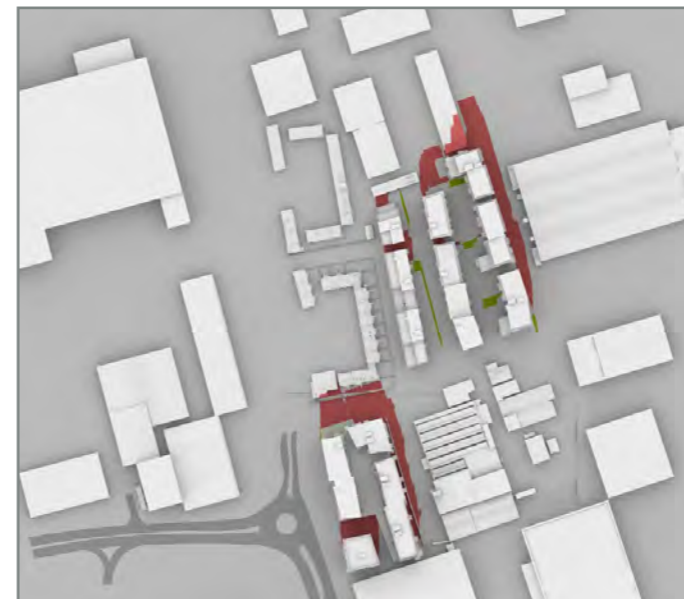


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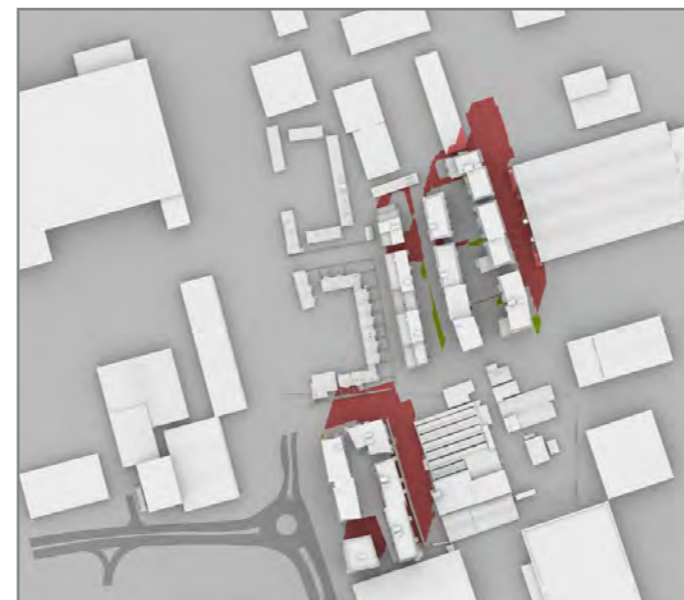


Title

Transient Overshadowing
 Hourly Shadows
 21st March



12:00GMT



13:00GMT

Existing

Proposed

NORTH



Latitude: 51.4N
 Min. solar altitude 10 degrees
 (BR209 3.3.8)

Project Charlton Riverside
 London

Reference 1864_TS04

Drawn VL Checked ON

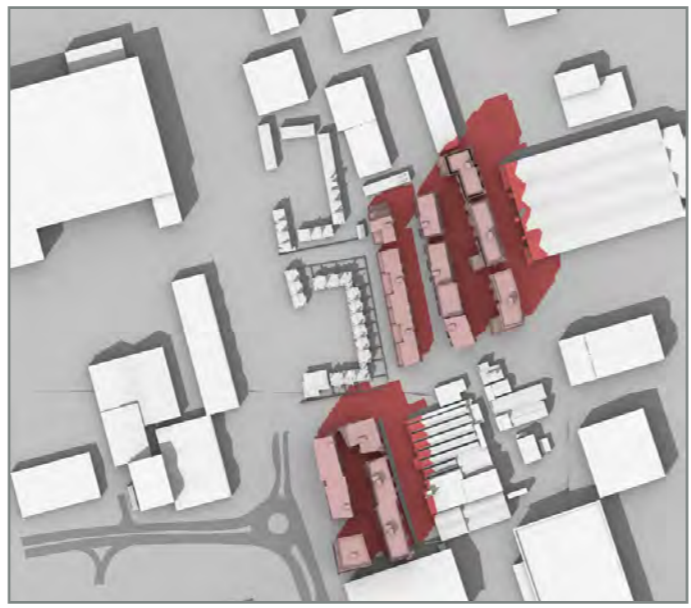
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Drawing no. 1864_TS04-6

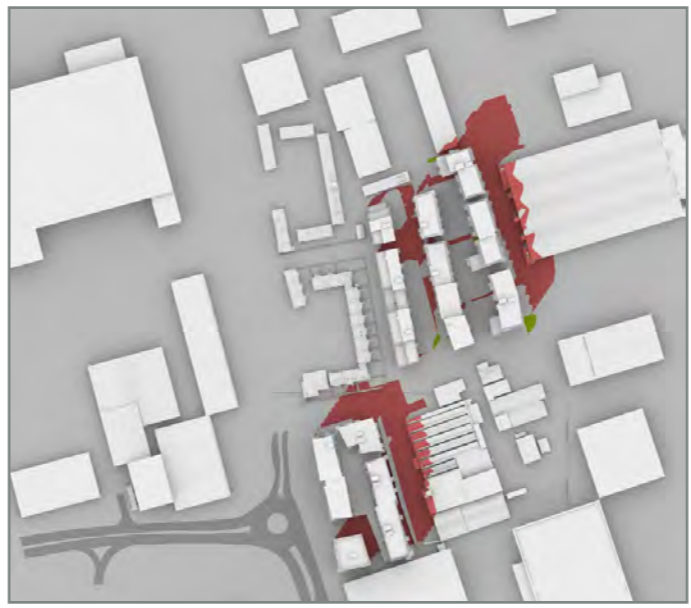
Existing Scenario



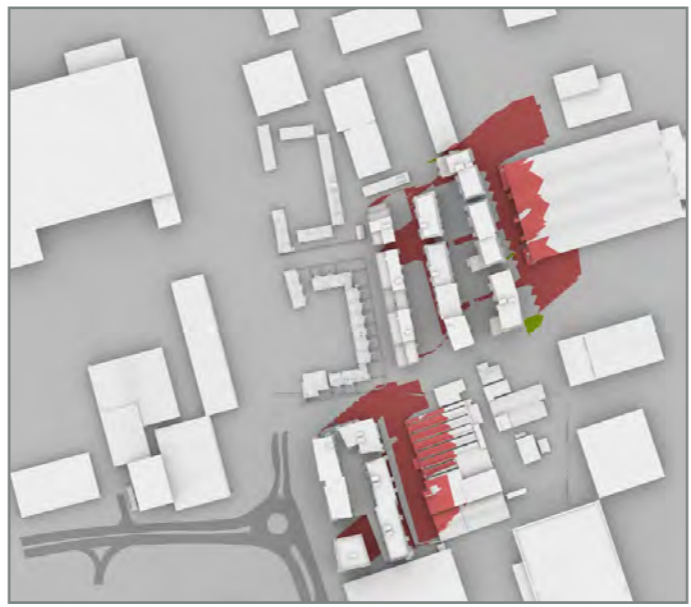
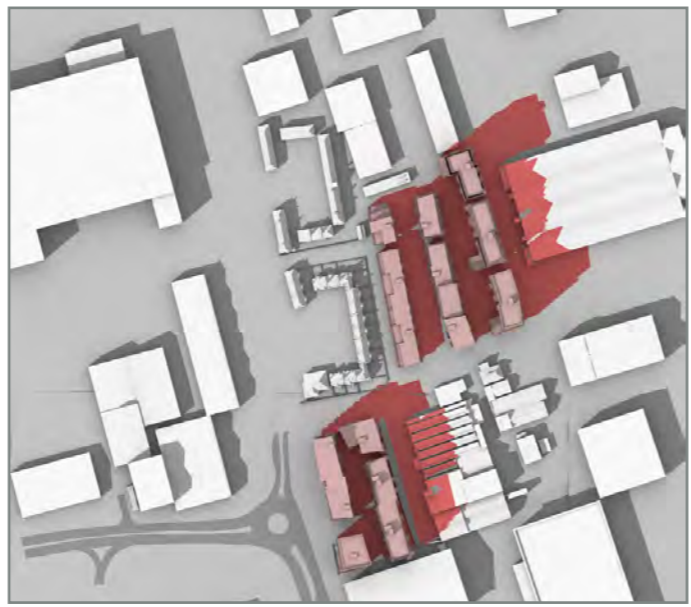
Proposed Scenario



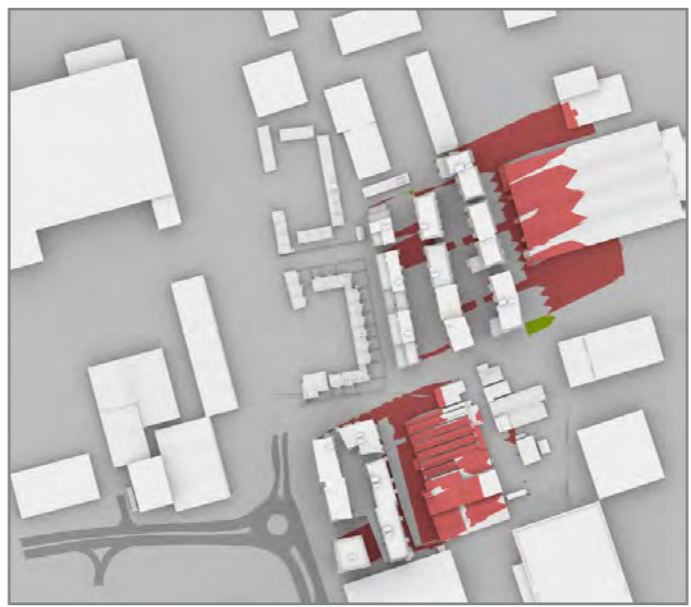
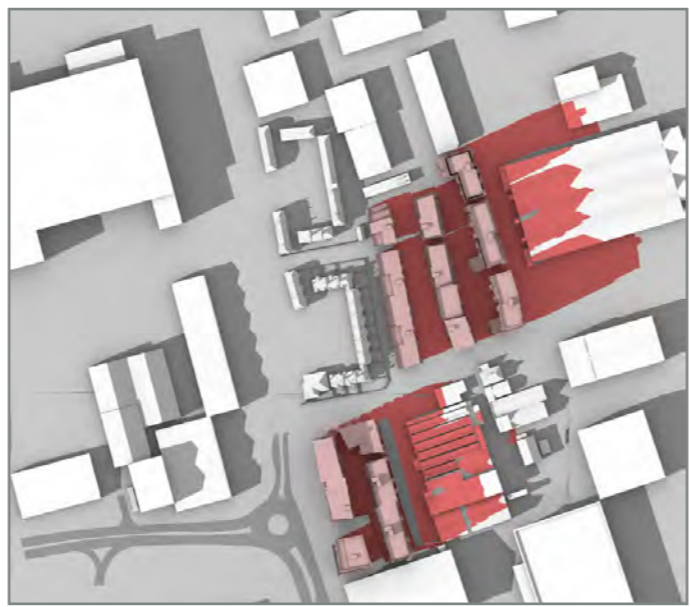
Difference



14:00GMT



15:00GMT



16:00GMT

Title
 Transient Overshadowing
 Hourly Shadows
 21st March

Existing

Proposed

NORTH

 Latitude: 51.4N
 Min. solar altitude 10 degrees
 (BR209 3.3.8)

Project Charlton Riverside
 London

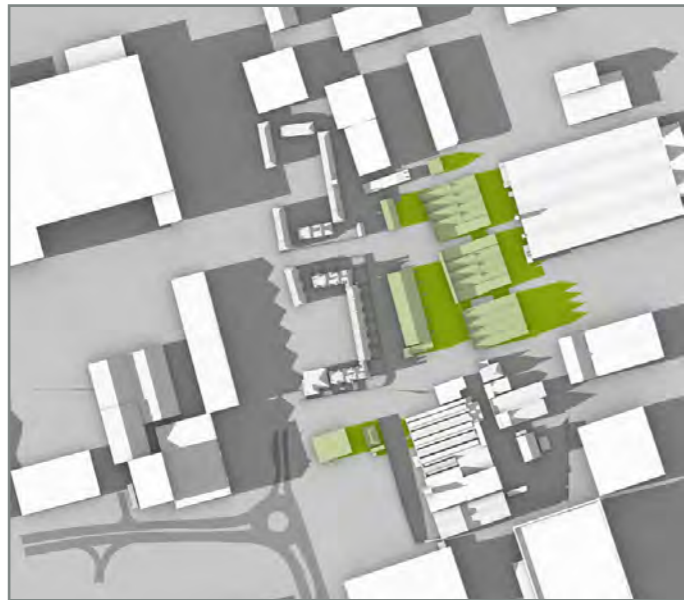
Reference 1864_TS04

Drawn VL Checked ON

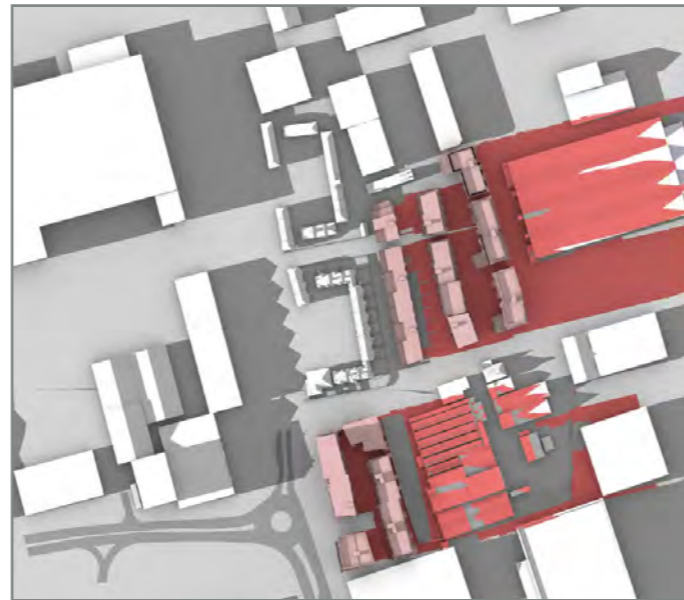
Date 19/2/2018 Rel no. 01

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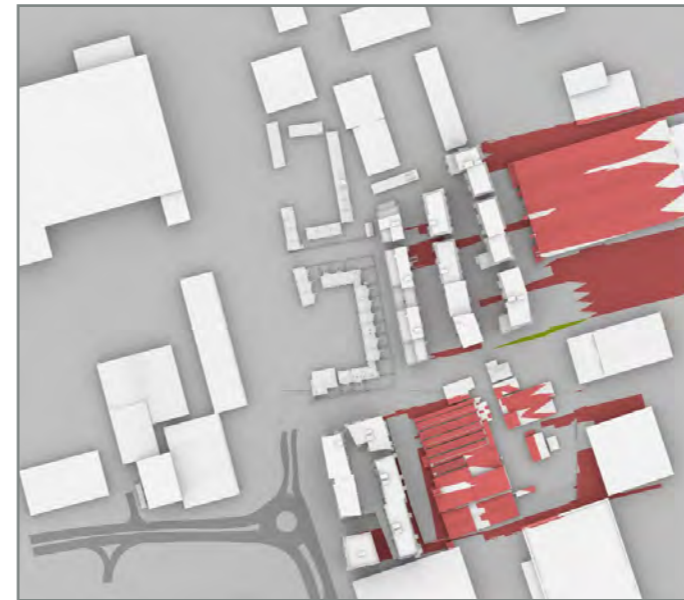
Existing Scenario



Proposed Scenario



Difference



17:00GMT


Title

Transient Overshadowing
Hourly Shadows
21st March

 Existing

 Proposed

NORTH

 Latitude: 51.4N
Min. solar altitude 10 degrees
(BR209 3.3.8)

Project
Charlton Riverside
London

Reference
1864_TS04

Drawn
VL
Checked
ON

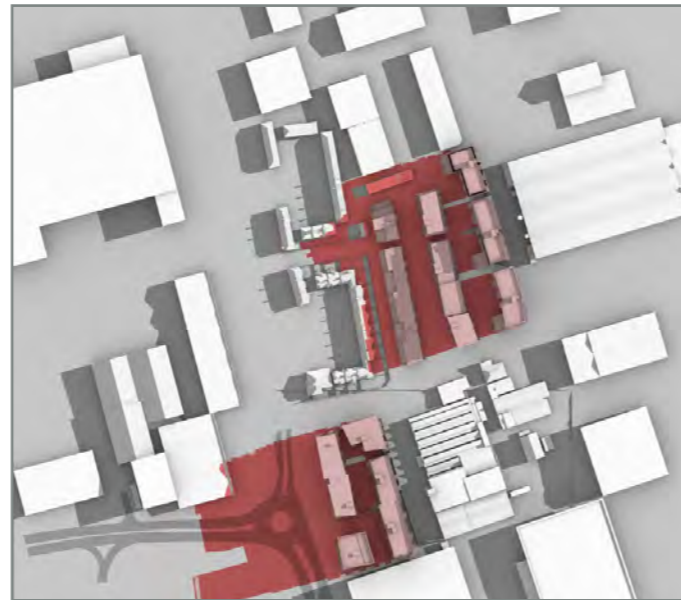
Date
19/2/2018
Rel no.
01

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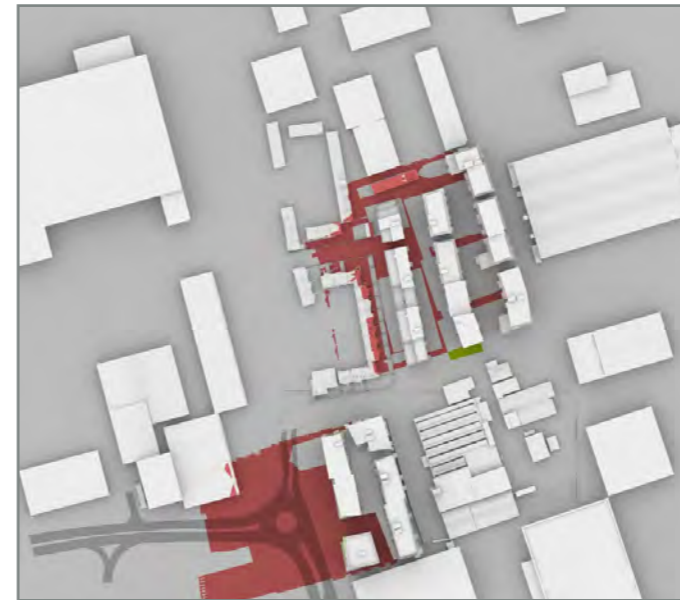
Existing Scenario



Proposed Scenario



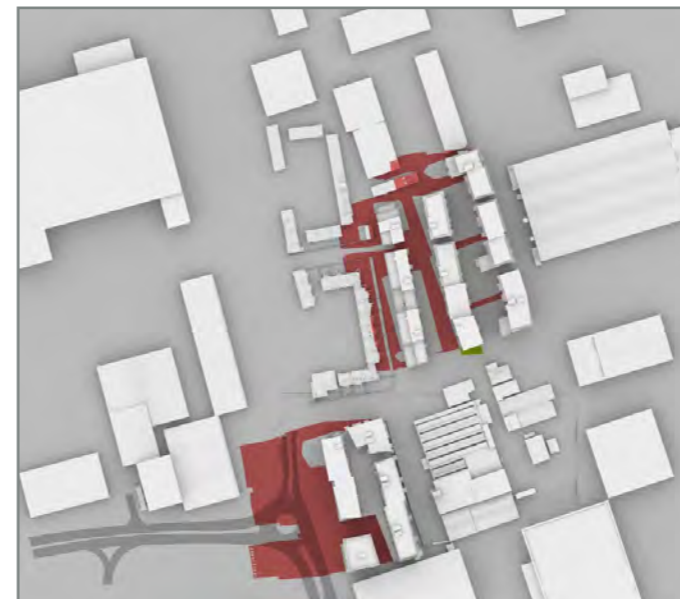
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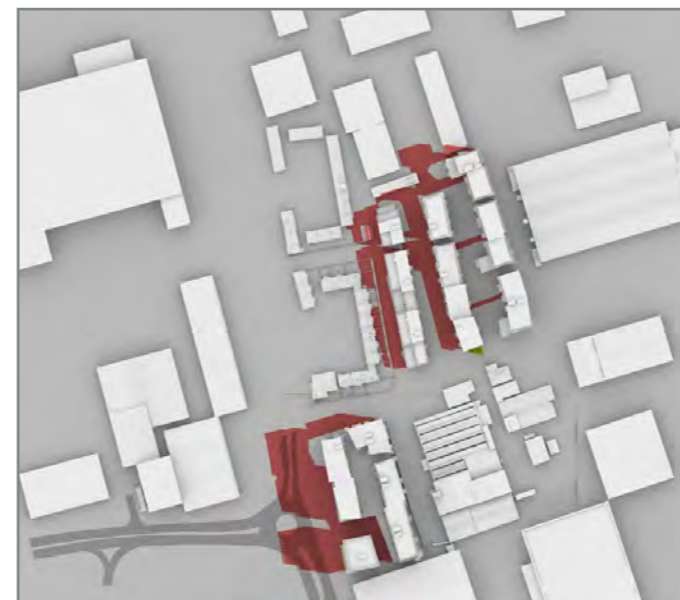
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Title

Transient Overshadowing
 Hourly Shadows
 21st June



7:00GMT



8:00GMT

Existing

Proposed

NORTH

Latitude: 51.4N
 Min. solar altitude 10 degrees
 (BR209 3.3.8)

Project Charlton Riverside
 London

Reference 1864_TS04

Drawn VL Checked ON

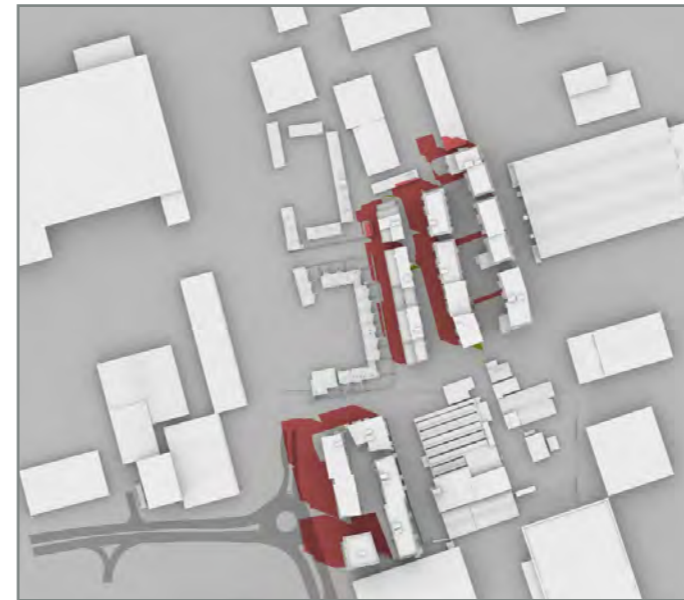
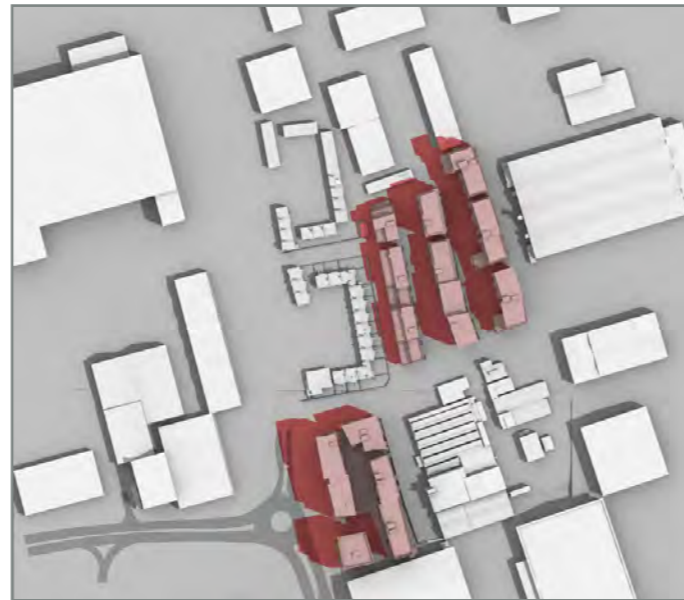
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Drawing no. 1864_TS04-9

Existing Scenario

Proposed Scenario

Difference



9:00GMT



10:00GMT



11:00GMT

Title

Transient Overshadowing
 Hourly Shadows
 21st June

Existing

Proposed

NORTH



Latitude: 51.4N
 Min. solar altitude 10 degrees
 (BR209 3.3.8)

Project Charlton Riverside
 London

Reference 1864_TS04

Drawn VL Checked ON

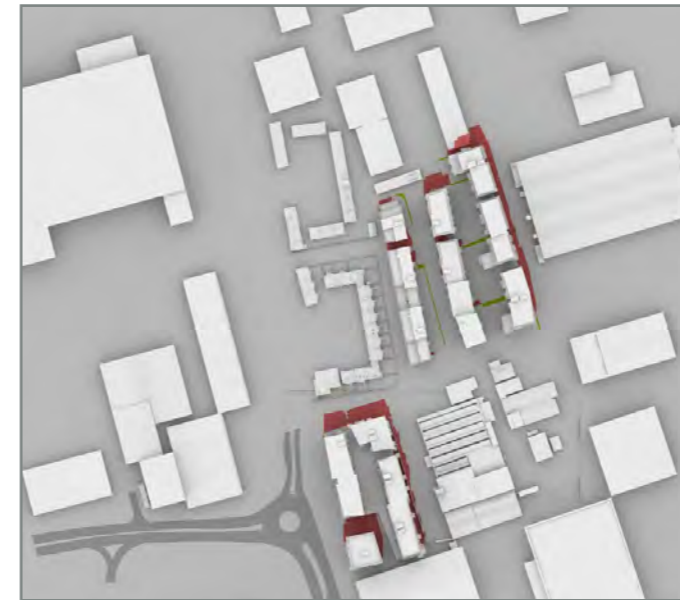
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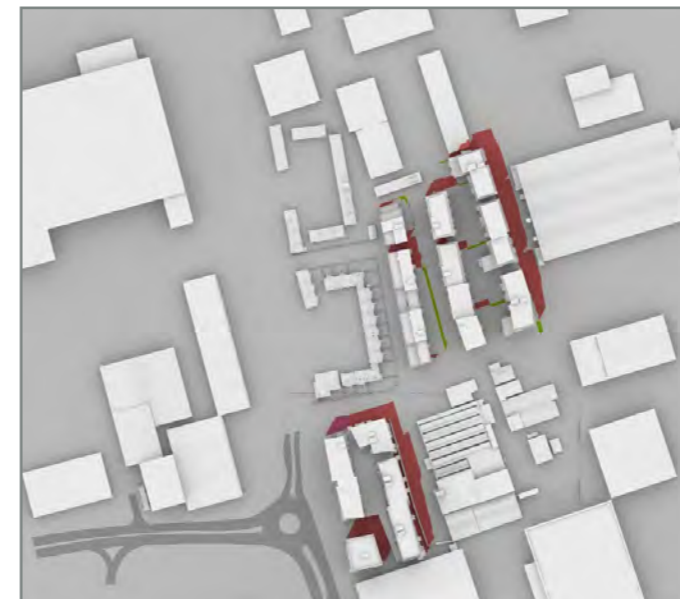
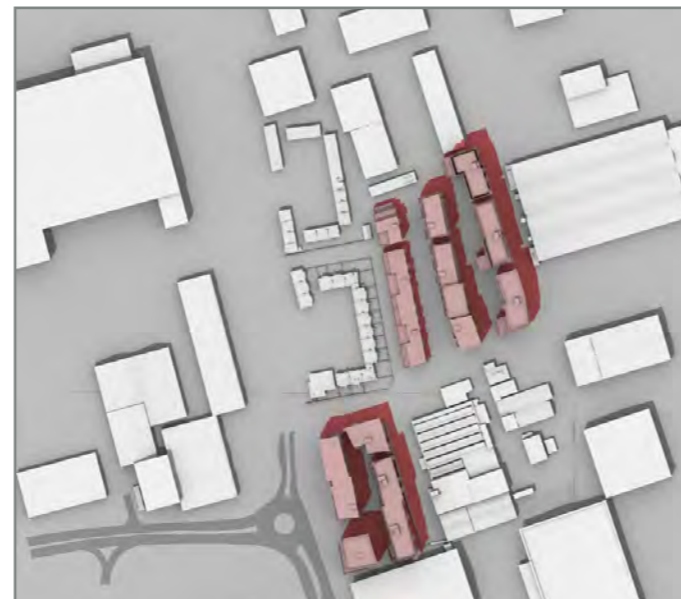
Existing Scenario

Proposed Scenario

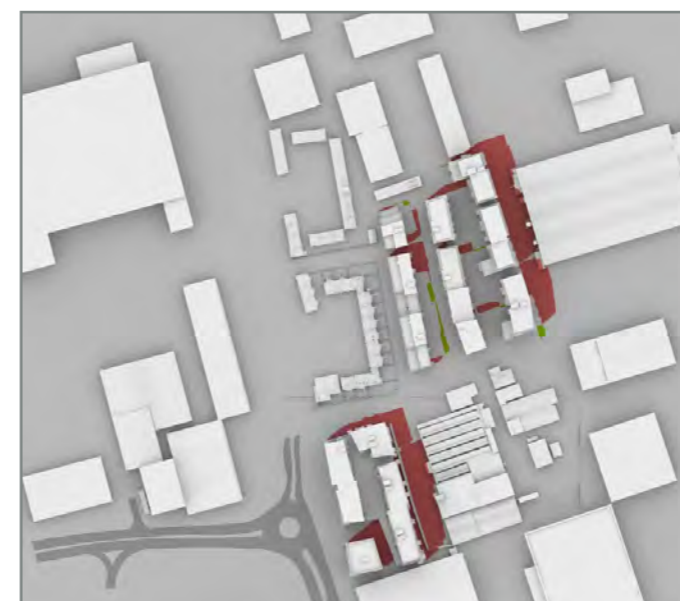
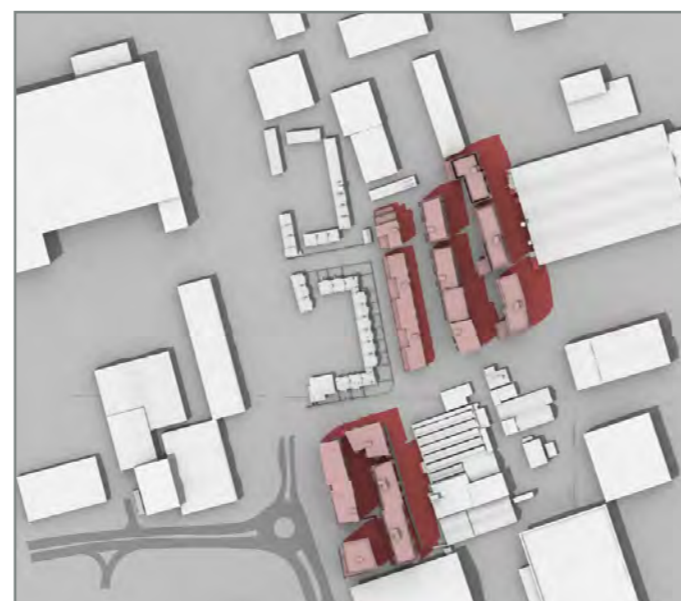
Difference



12:00GMT



13:00GMT



14:00GMT

Title

Transient Overshadowing
 Hourly Shadows
 21st June

Existing

Proposed

NORTH

Latitude: 51.4N
 Min. solar altitude 10 degrees
 (BR209 3.3.8)

Project Charlton Riverside
 London

Reference 1864_TS04

Drawn VL Checked ON

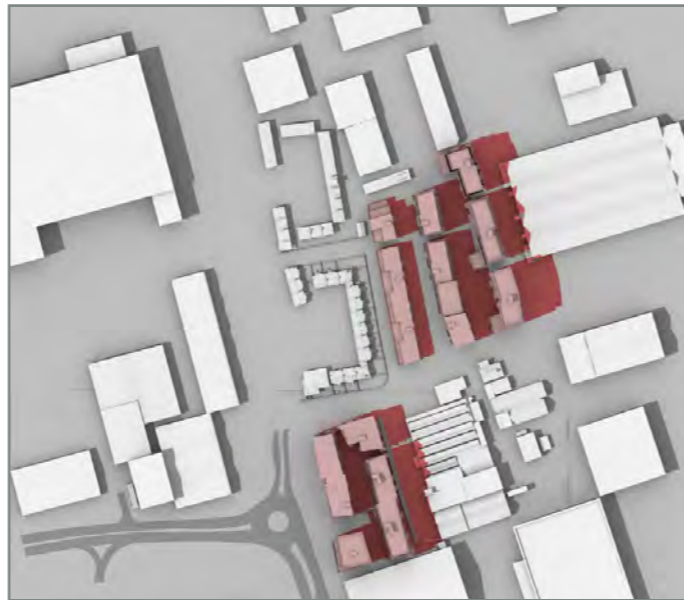
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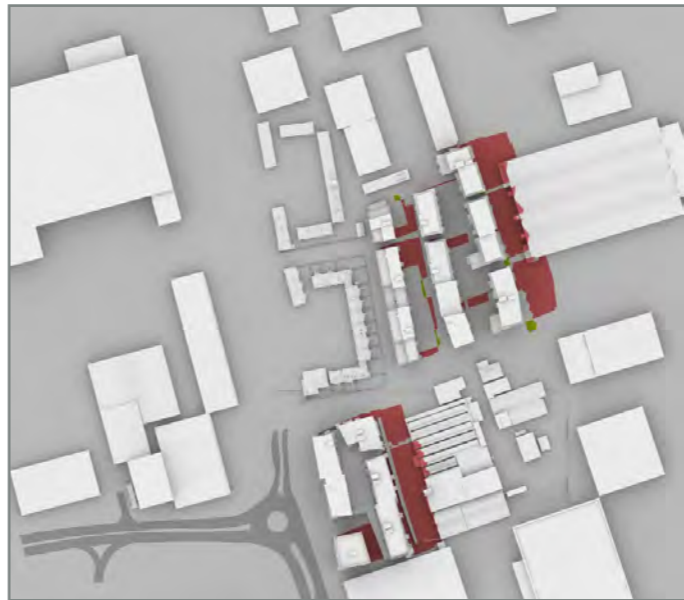
Existing Scenario



Proposed Scenario



Difference

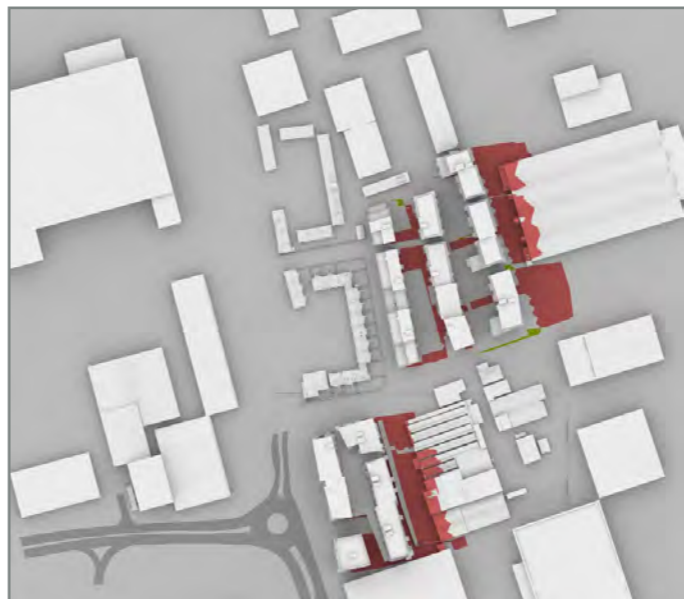
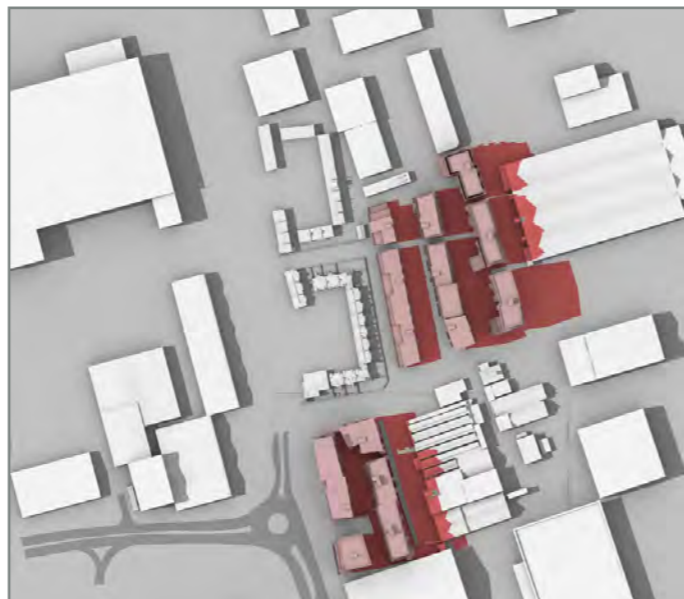


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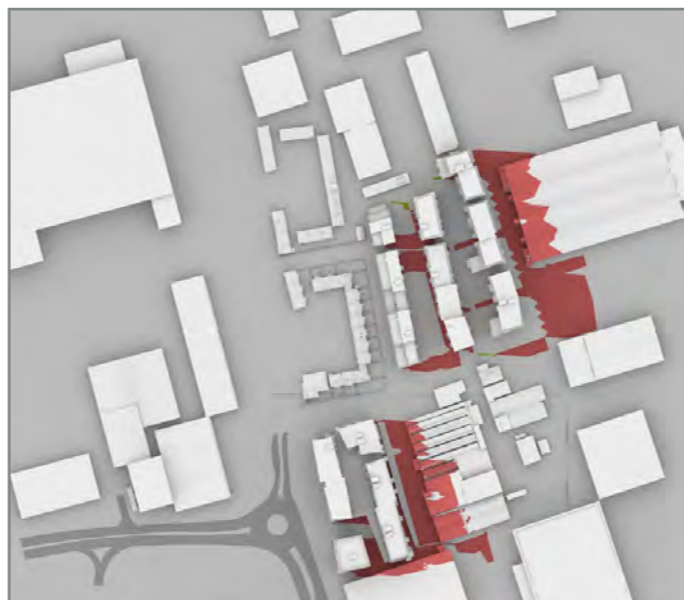
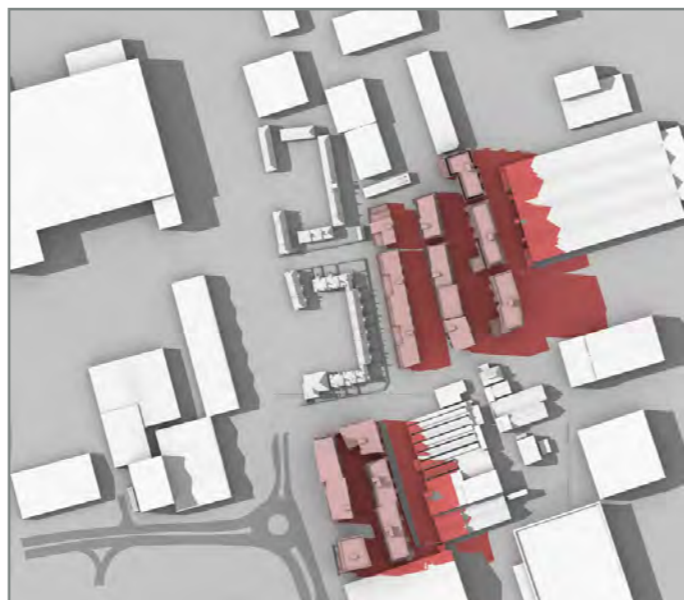


Title

Transient Overshadowing
 Hourly Shadows
 21st June



16:00GMT



17:00GMT

Existing

Proposed

NORTH



Latitude: 51.4N
 Min. solar altitude 10 degrees
 (BR209 3.3.8)

Project Charlton Riverside
 London

Reference 1864_TS04

Drawn VL Checked ON

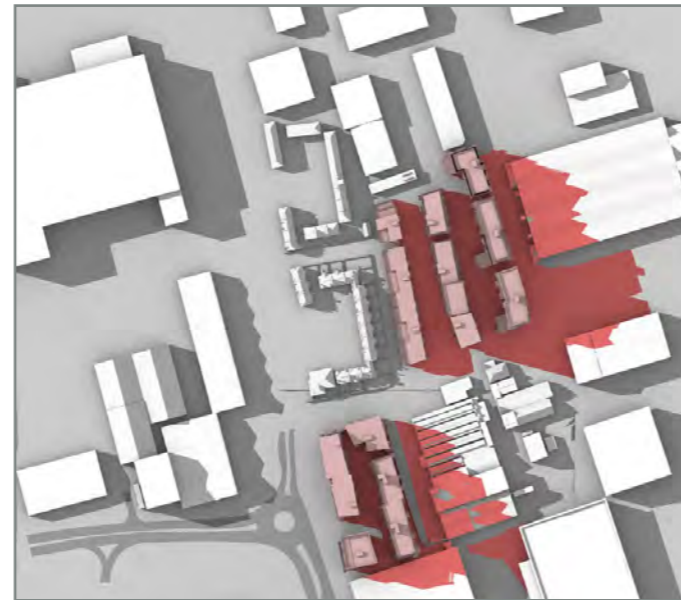
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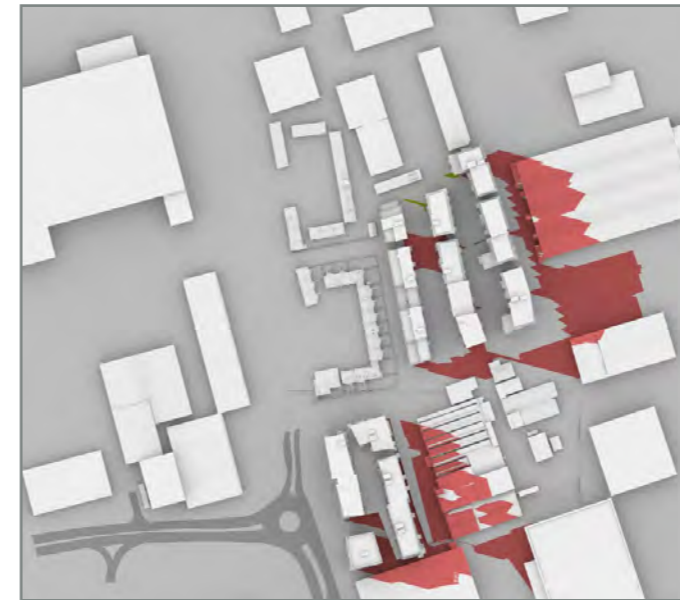
Existing Scenario



Proposed Scenario



Difference



18:00GMT

Title

Transient Overshadowing
Hourly Shadows
21st June

Existing

Proposed

NORTH

Latitude: 51.4N
Min. solar altitude 10 degrees
(BR209 3.3.8)

Project
Charlton Riverside
London

Reference
1864_TS04

Drawn
VL
Checked
ON

Date
19/2/2018
Rel no.
01

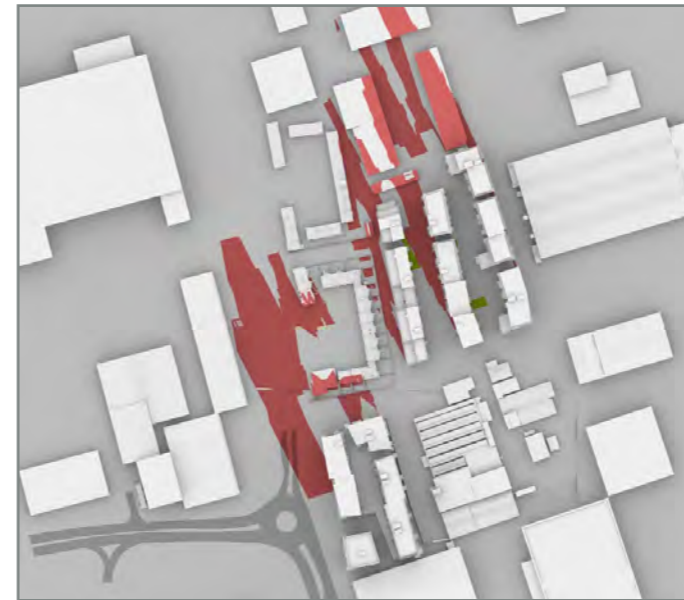
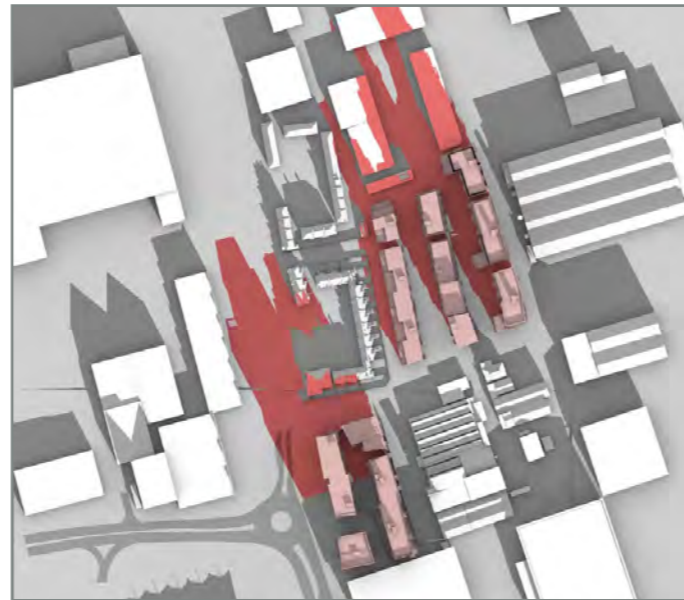
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1864_TS04-13

Existing Scenario

Proposed Scenario

Difference

10:00GMT



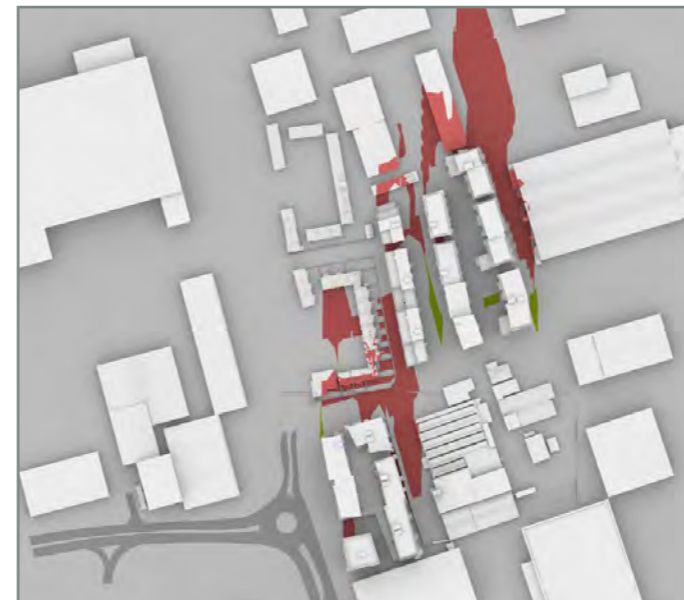
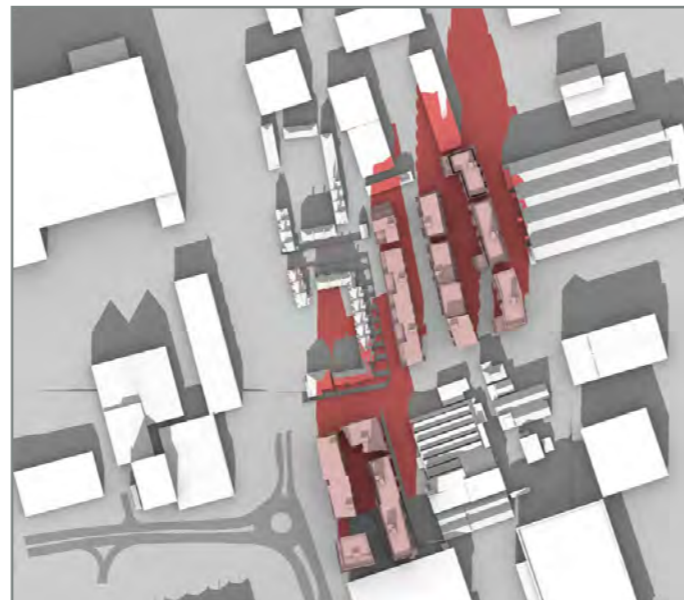
Title

Transient Overshadowing
 Hourly Shadows
 21st December

11:00GMT



12:00GMT



Existing

Proposed

NORTH



Latitude: 51.4N
 Min. solar altitude 10 degrees
 (BR209 3.3.8)

Project Charlton Riverside
 London

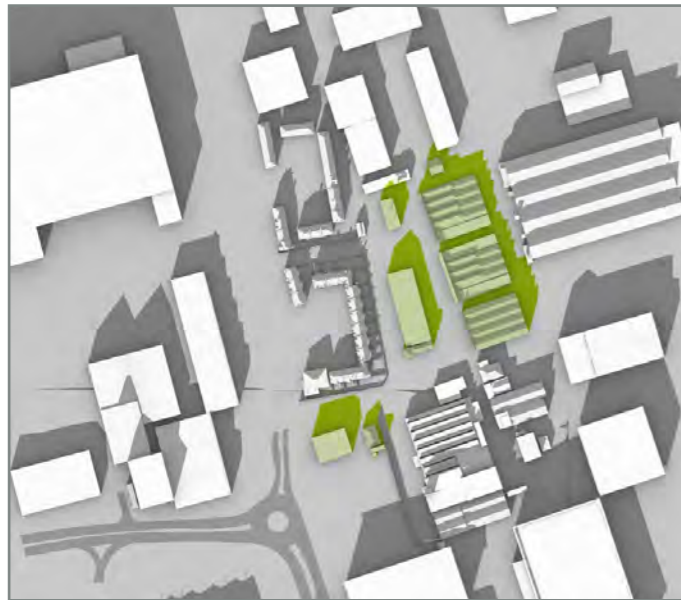
Reference 1864_TS04

Drawn VL Checked ON

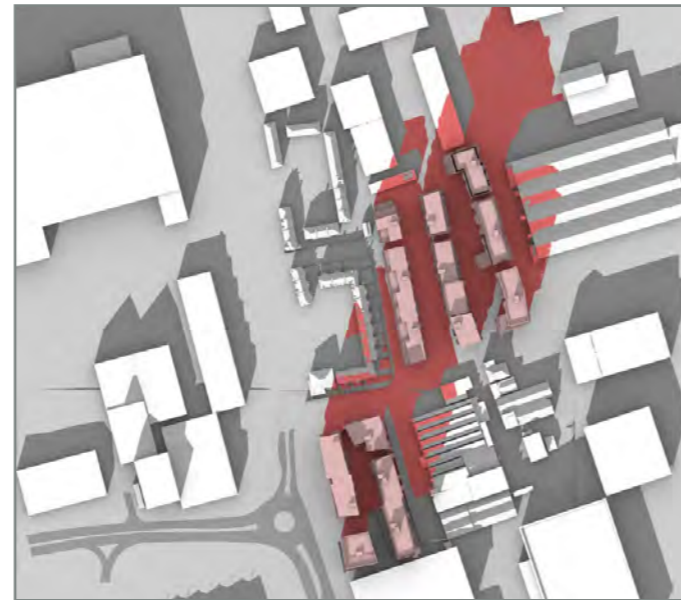
Date 19/2/2018 Rel no. 01

Drawing no. 1864_TS04-14

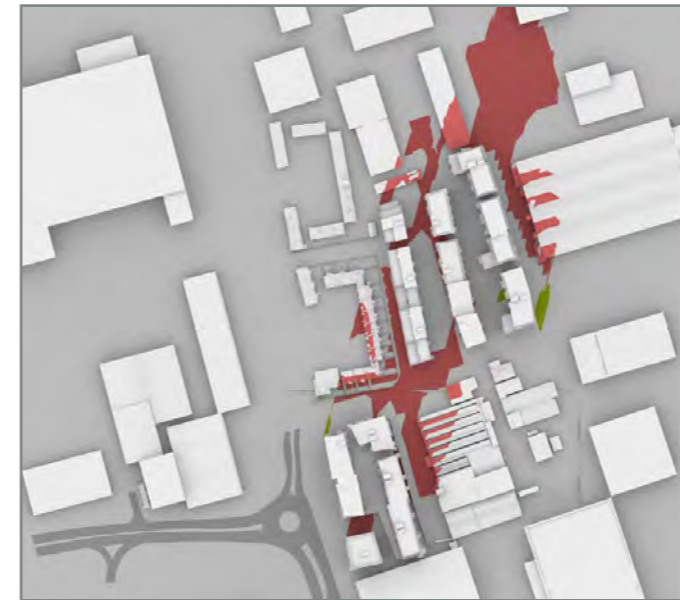
Existing Scenario



Proposed Scenario



Difference

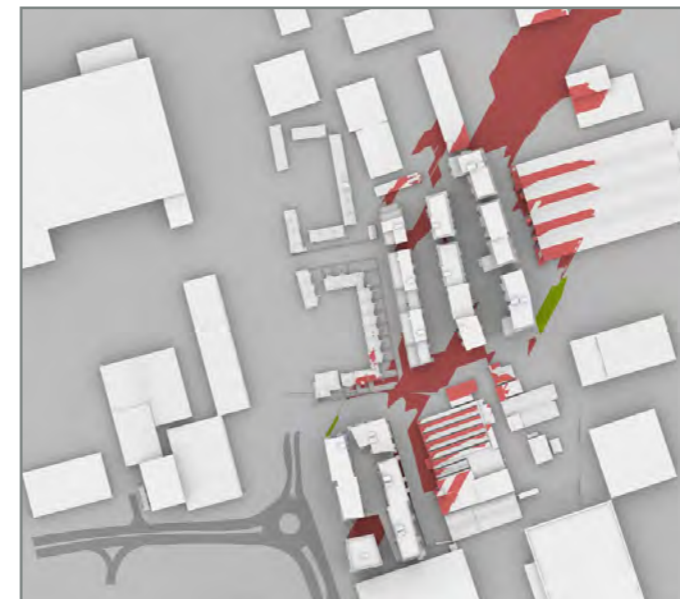
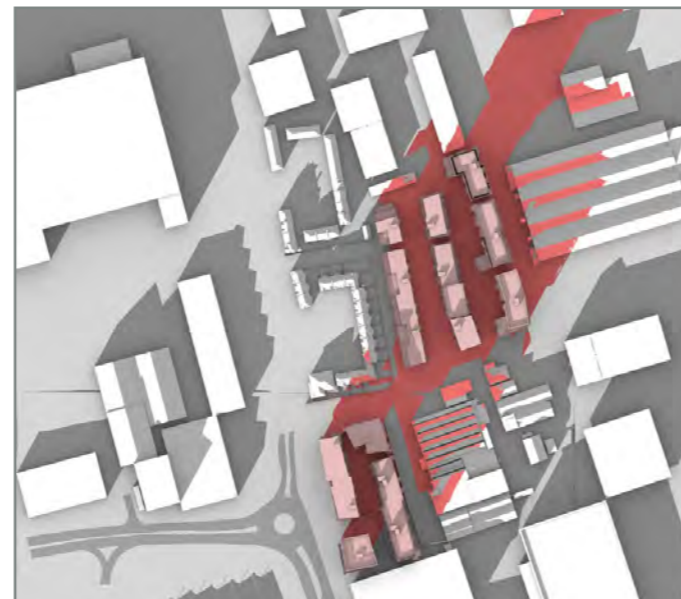
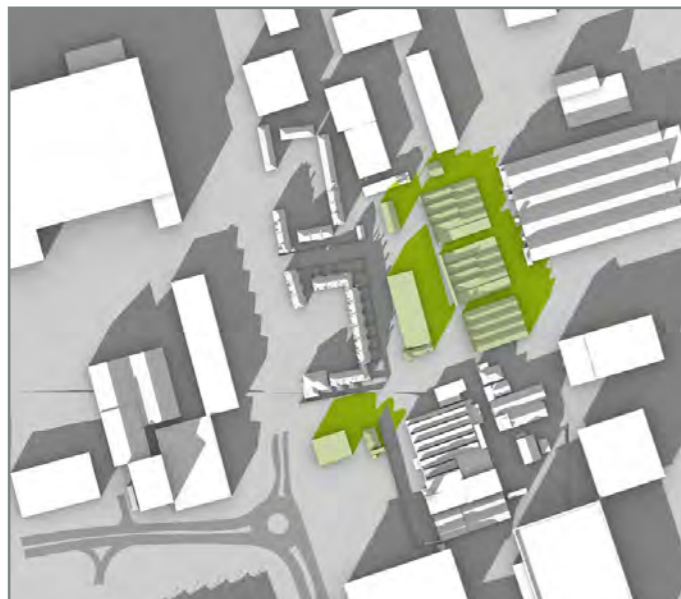


13:00GMT



Title

Transient Overshadowing
 Hourly Shadows
 21st December



14:00GMT

Existing

Proposed

NORTH

Latitude: 51.4N
 Min. solar altitude 10 degrees
 (BR209 3.3.8)

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Reference 1864_TS04

Drawn VL Checked ON

Date 19/2/2018 Rel no. 01

Drawing no. 1864_TS04-15



Appendix 5

**Drawings and detailed daylight (ADF) and sunlight (APSH) – within Proposed
Development**

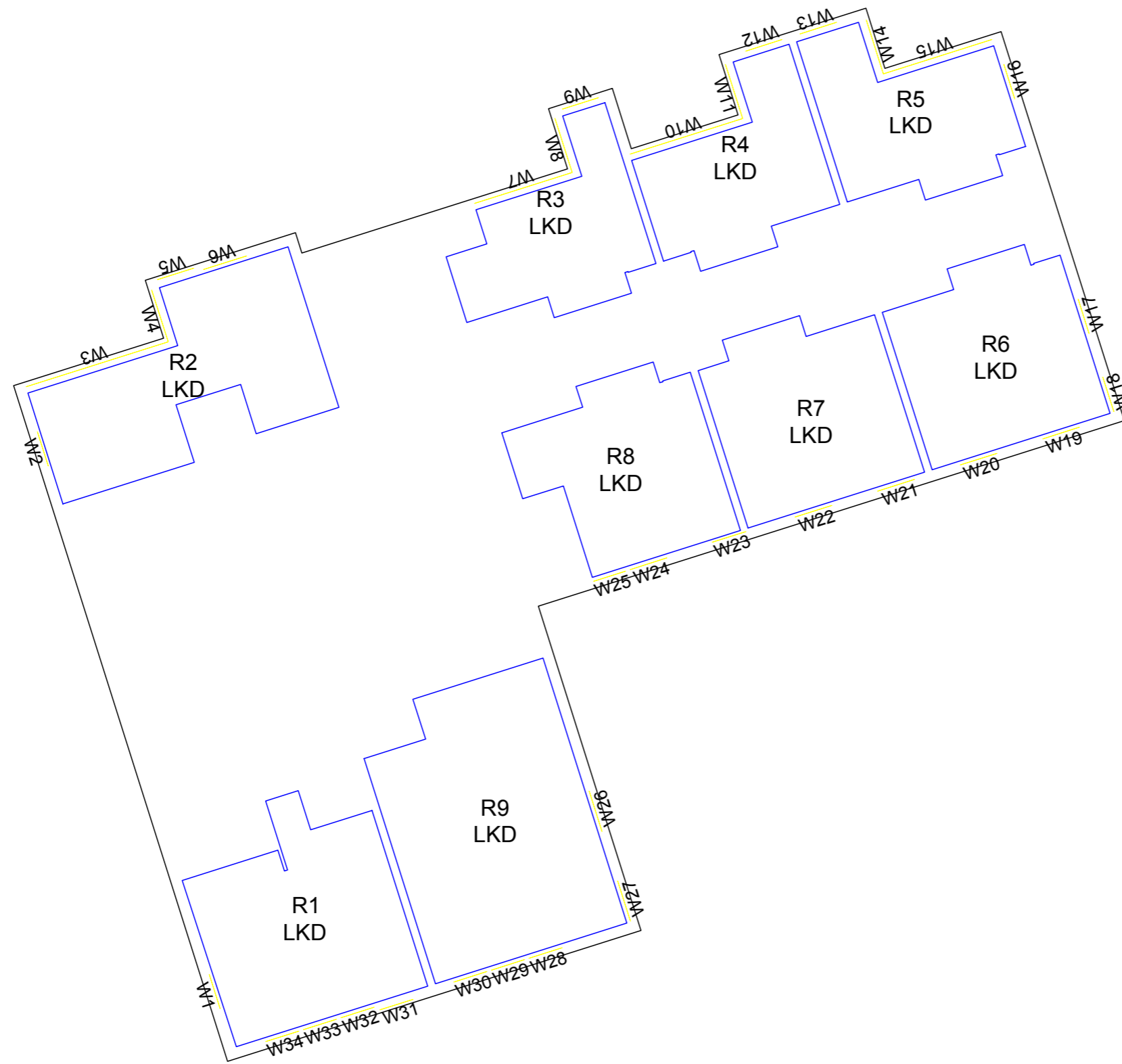
Sources of information

Simpson Haugh
10046-Z1-G200-3-Plot A&B.dwg
Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
Received 16/11/2017

Cloud10
Charlton ROL-26-10-16-Meters.dwg
Received 25/10/2016

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Title Ground Floor
Room Layout
Block A

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID01

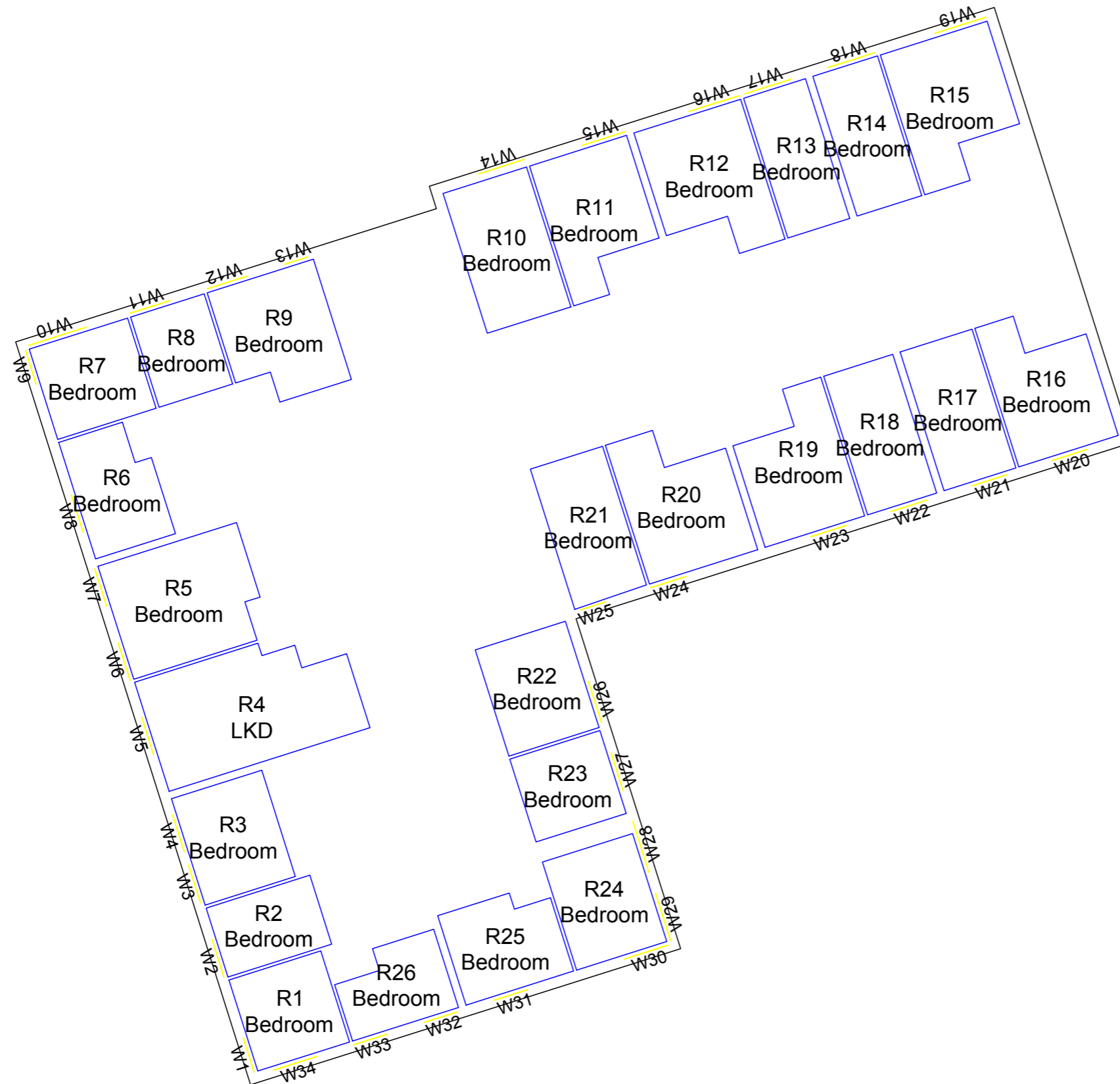
Sources of information

Simpson Haugh
 10046-Z1-G200-3-Plot A&B.dwg
 Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
 Received 16/11/2017

Cloud10
 Charlton ROL-26-10-16-Meters.dwg
 Received 25/10/2016

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Title First Floor
 Room Layout
 Block A

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID02

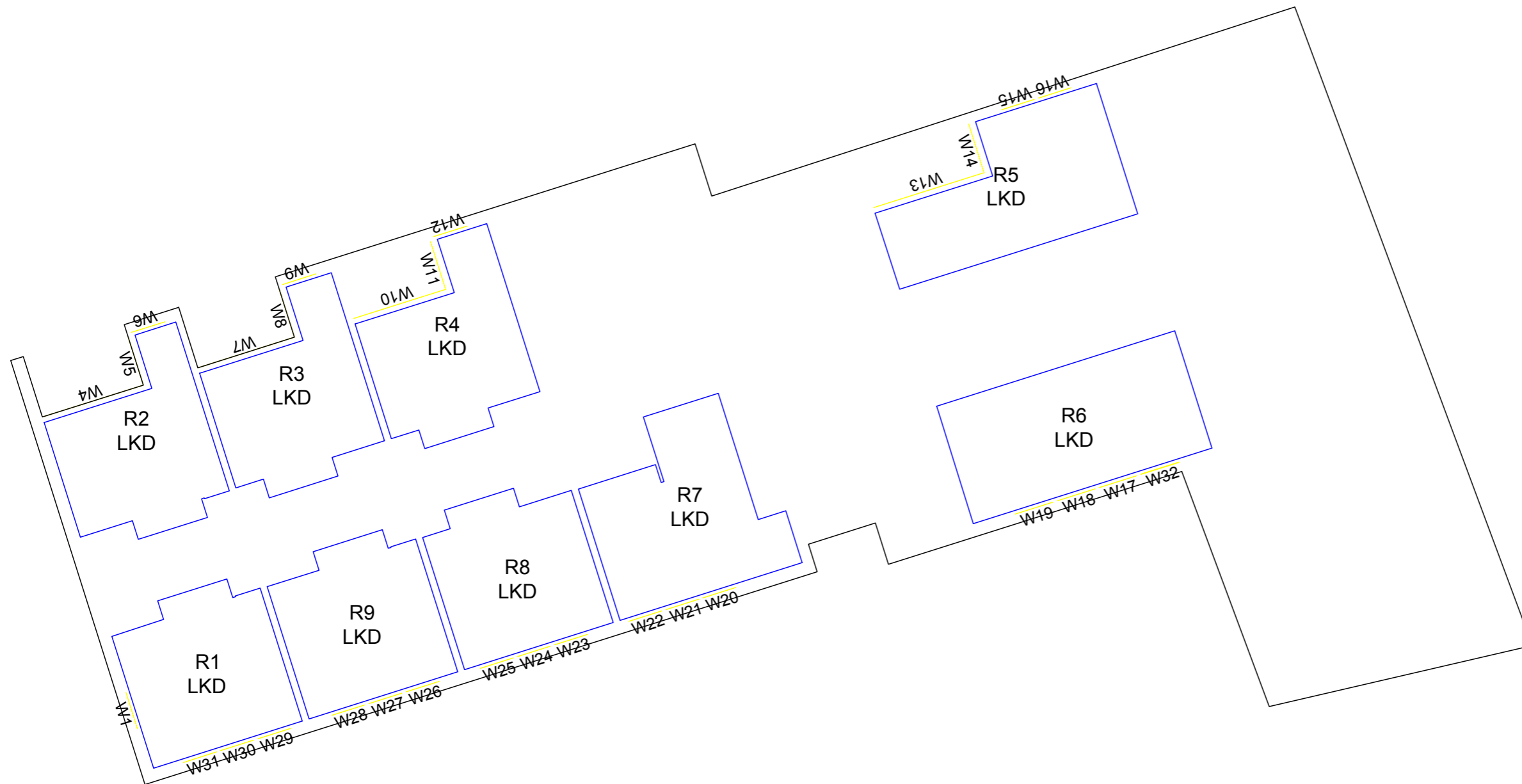
Sources of information

Simpson Haugh
 10046-Z1-G200-3-Plot A&B.dwg
 Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
 Received 16/11/2017

Cloud10
 Charlton ROL-26-10-16-Meters.dwg
 Received 25/10/2016

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Title Ground Floor
 Room Layout
 Block B

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID03

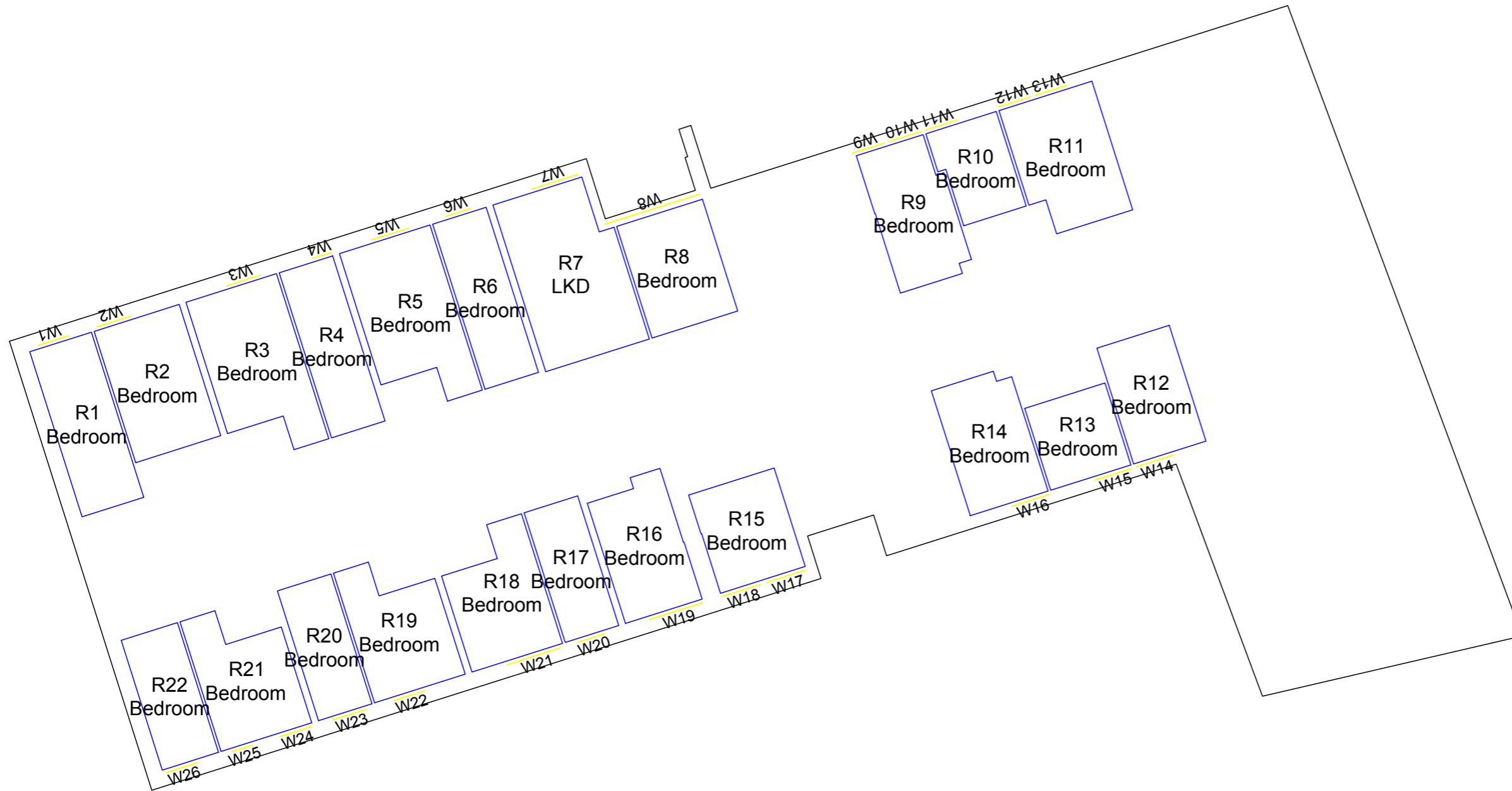
Sources of information

Simpson Haugh
 10046-Z1-G200-3-Plot A&B.dwg
 Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
 Received 16/11/2017

Cloud10
 Charlton ROL-26-10-16-Meters.dwg
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Title First Floor
 Room Layout
 Block B

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID04

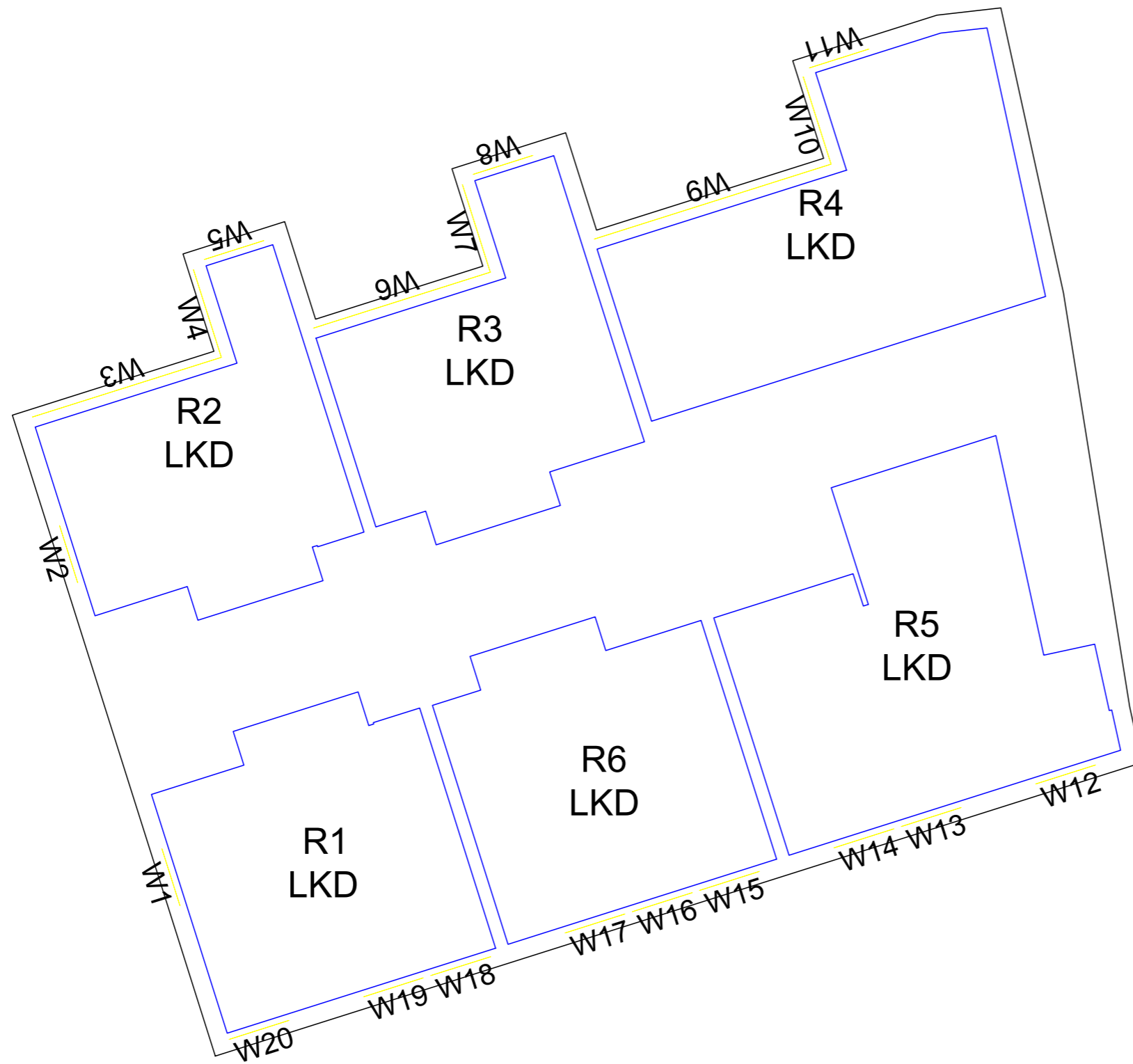
Sources of information

Simpson Haugh
10046-Z1-G200-3-Plot A&B.dwg
Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
Received 16/11/2017

Cloud10
Charlton ROL-26-10-16-Meters.dwg
Received 25/10/2016

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Title Ground Floor
Room Layout
Block C

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID05

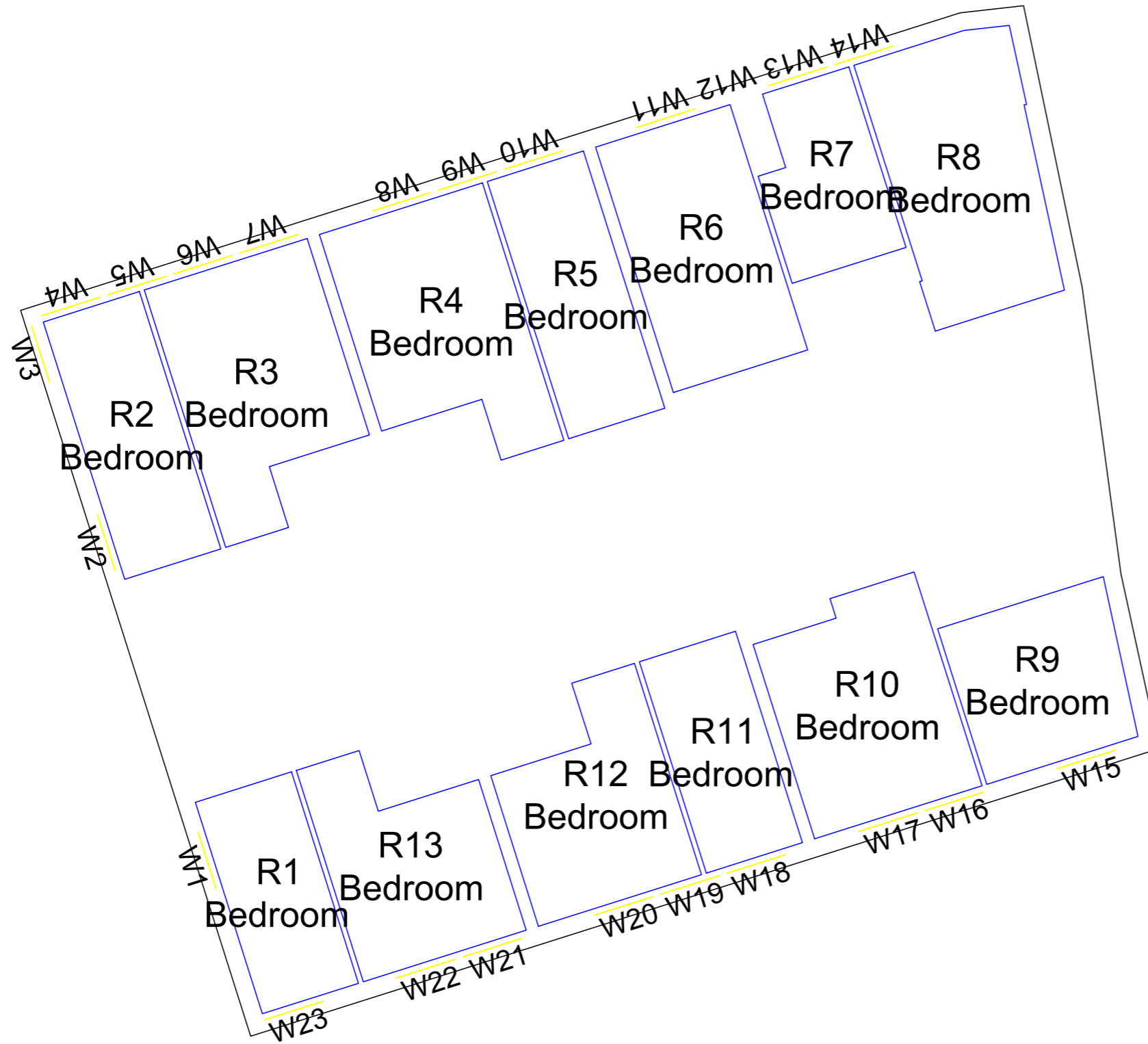
Sources of information

Simpson Haugh
 10046-Z1-G200-3-Plot A&B.dwg
 Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
 Received 16/11/2017

Cloud10
 Charlton ROL-26-10-16-Meters.dwg
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Title First Floor
 Room Layout
 Block C

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID06

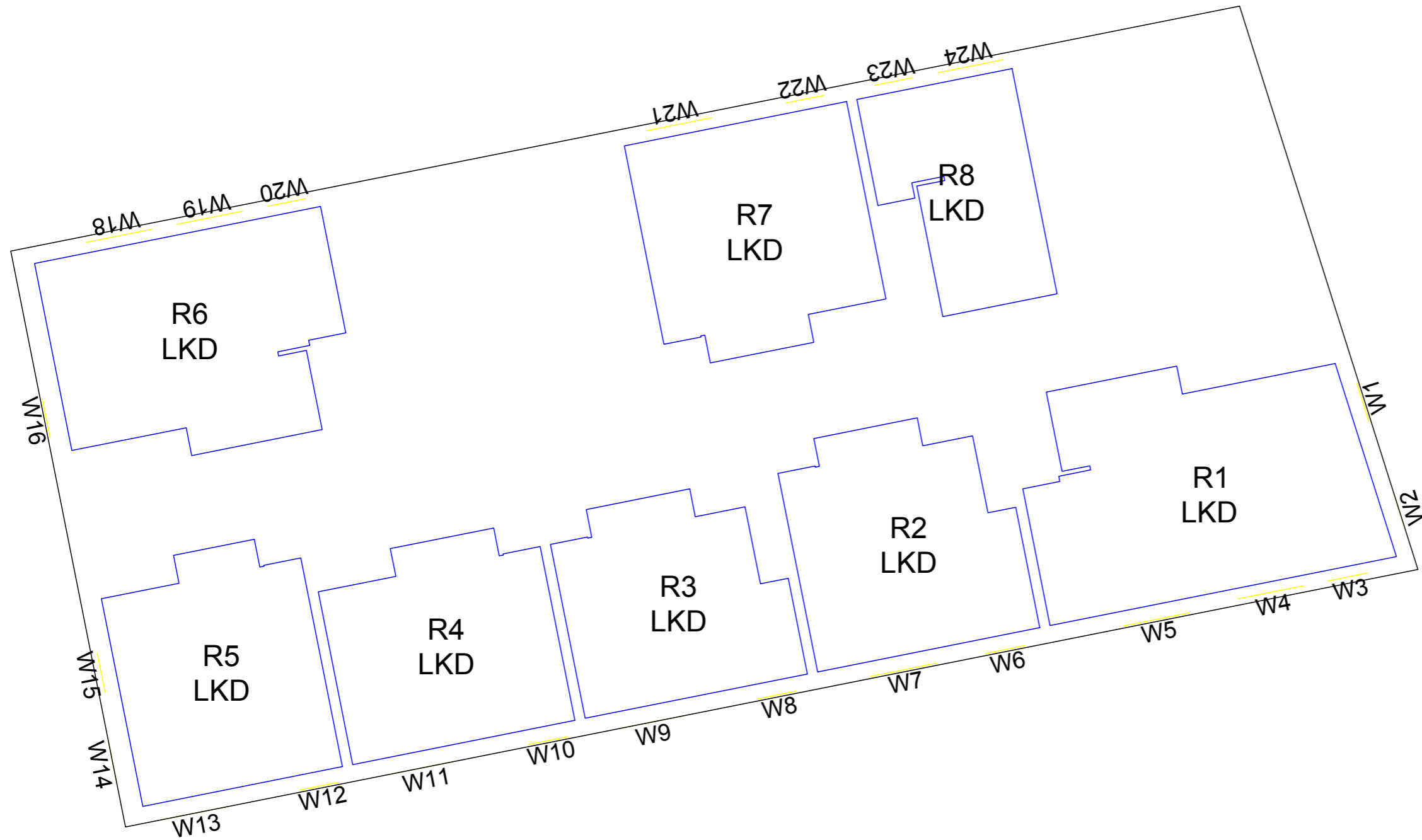
Sources of information

Simpson Haugh
10046-Z1-G200-3-Plot A&B.dwg
Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
Received 16/11/2017

Cloud10
Charlton ROL-26-10-16-Meters.dwg
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Title Ground Floor
Room Layout
Block D

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID07

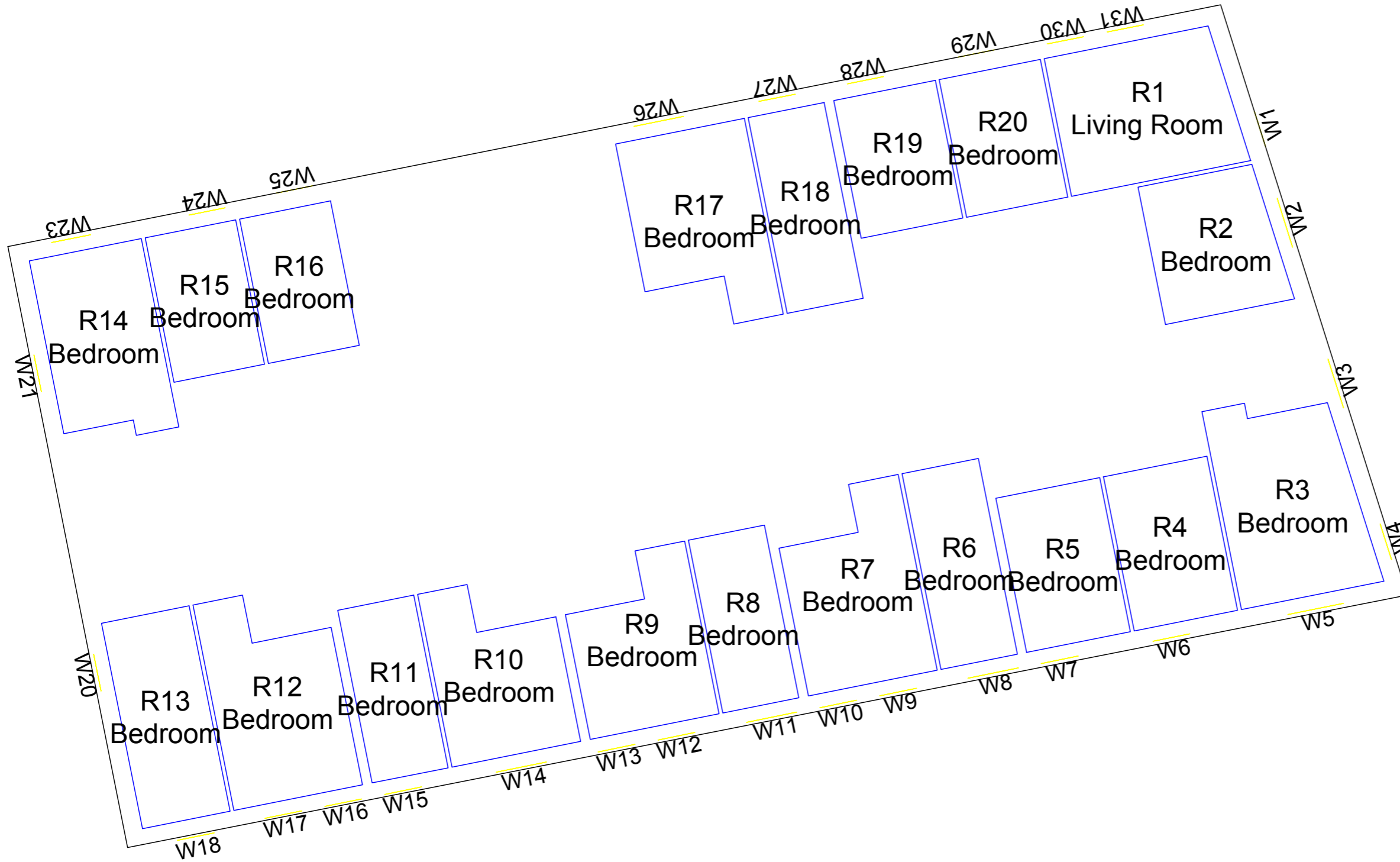
Sources of information

Simpson Haugh
10046-Z1-G200-3-Plot A&B.dwg
Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
Received 16/11/2017

Cloud10
Charlton ROL-26-10-16-Meters.dwg
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Title First Floor
Room Layout
Block D

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID08

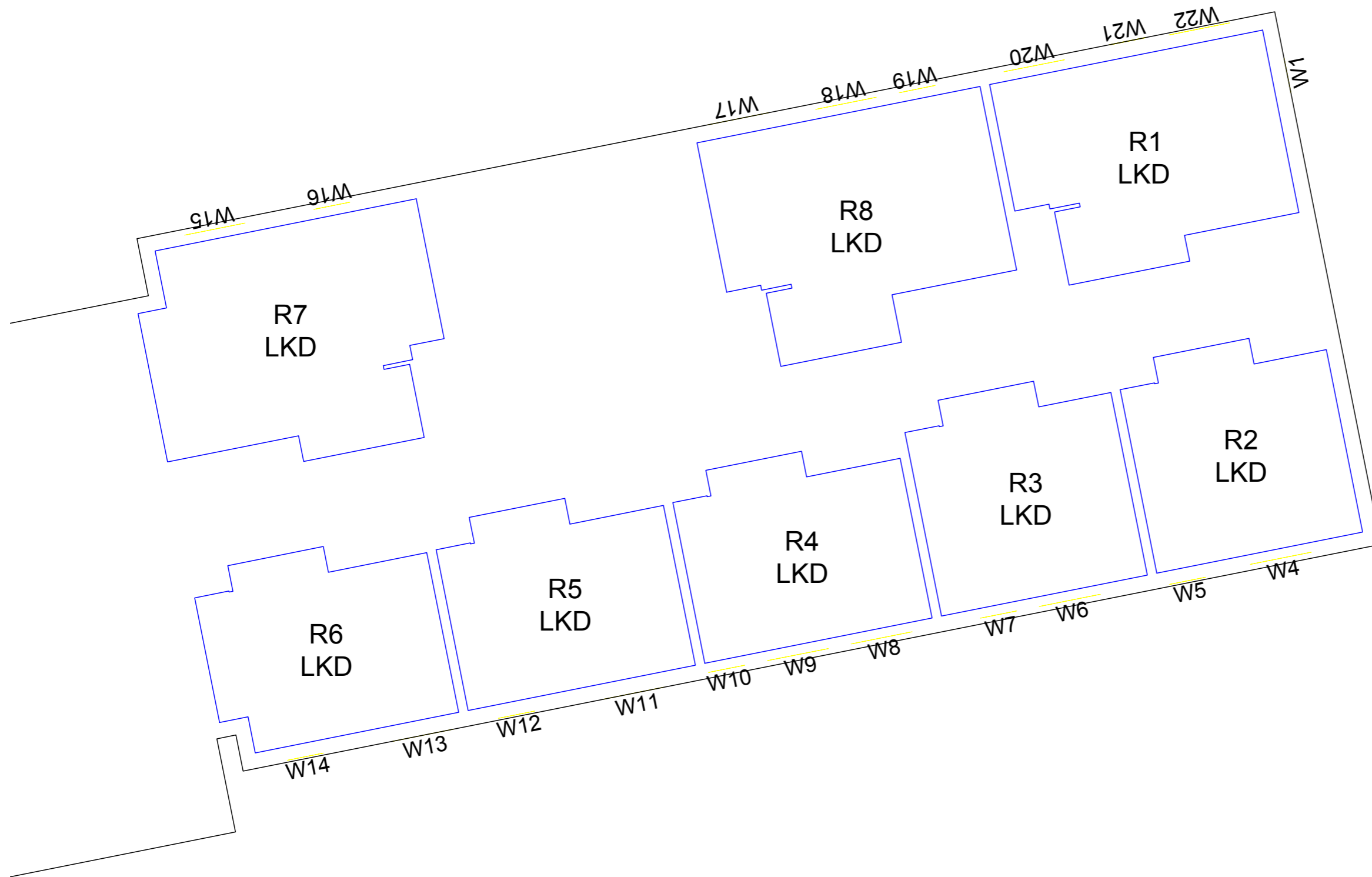
Sources of information

Simpson Haugh
10046-Z1-G200-3-Plot A&B.dwg
Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
Received 16/11/2017

Cloud10
Charlton ROL-26-10-16-Meters.dwg
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Title Ground Floor
Room Layout
Block E

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID09

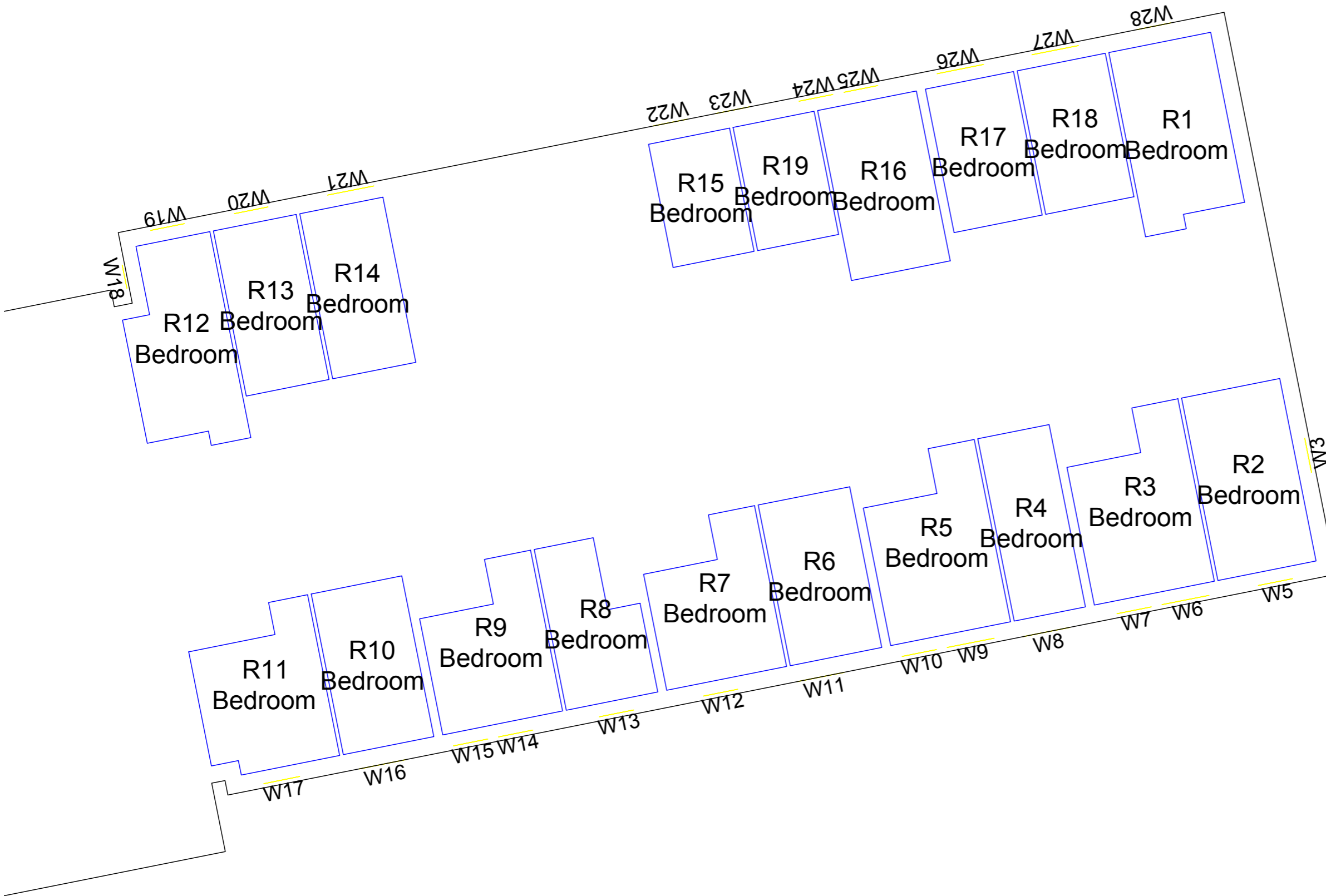
Sources of information

Simpson Haugh
10046-Z1-G200-3-Plot A&B.dwg
Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
Received 16/11/2017

Cloud10
Charlton ROL-26-10-16-Meters.dwg
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Title First Floor
Room Layout
Block E

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID10

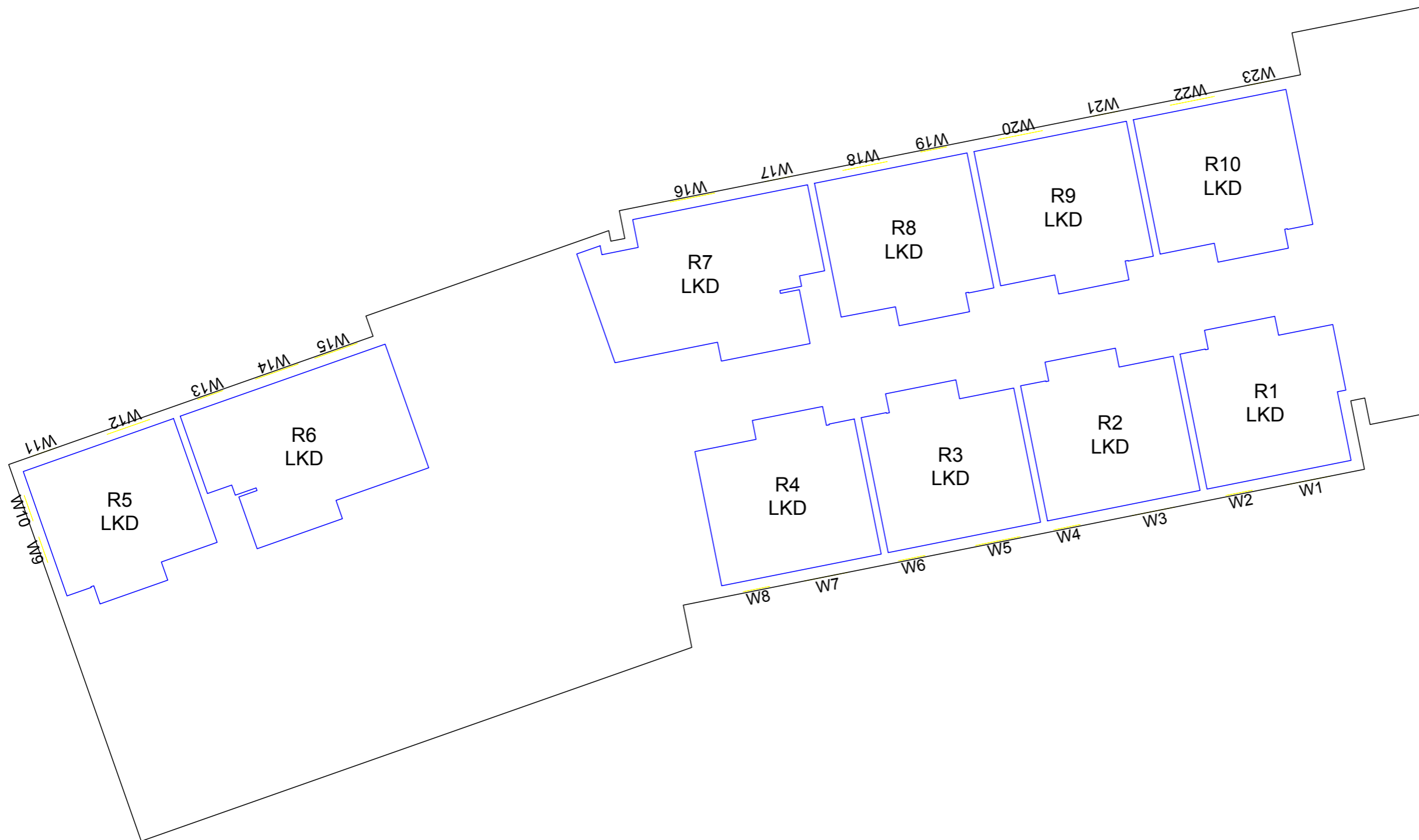
Sources of information

Simpson Haugh
10046-Z1-G200-3-Plot A&B.dwg
Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
Received 16/11/2017

Cloud10
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Title Ground Floor
Room Layout
Block F

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID11

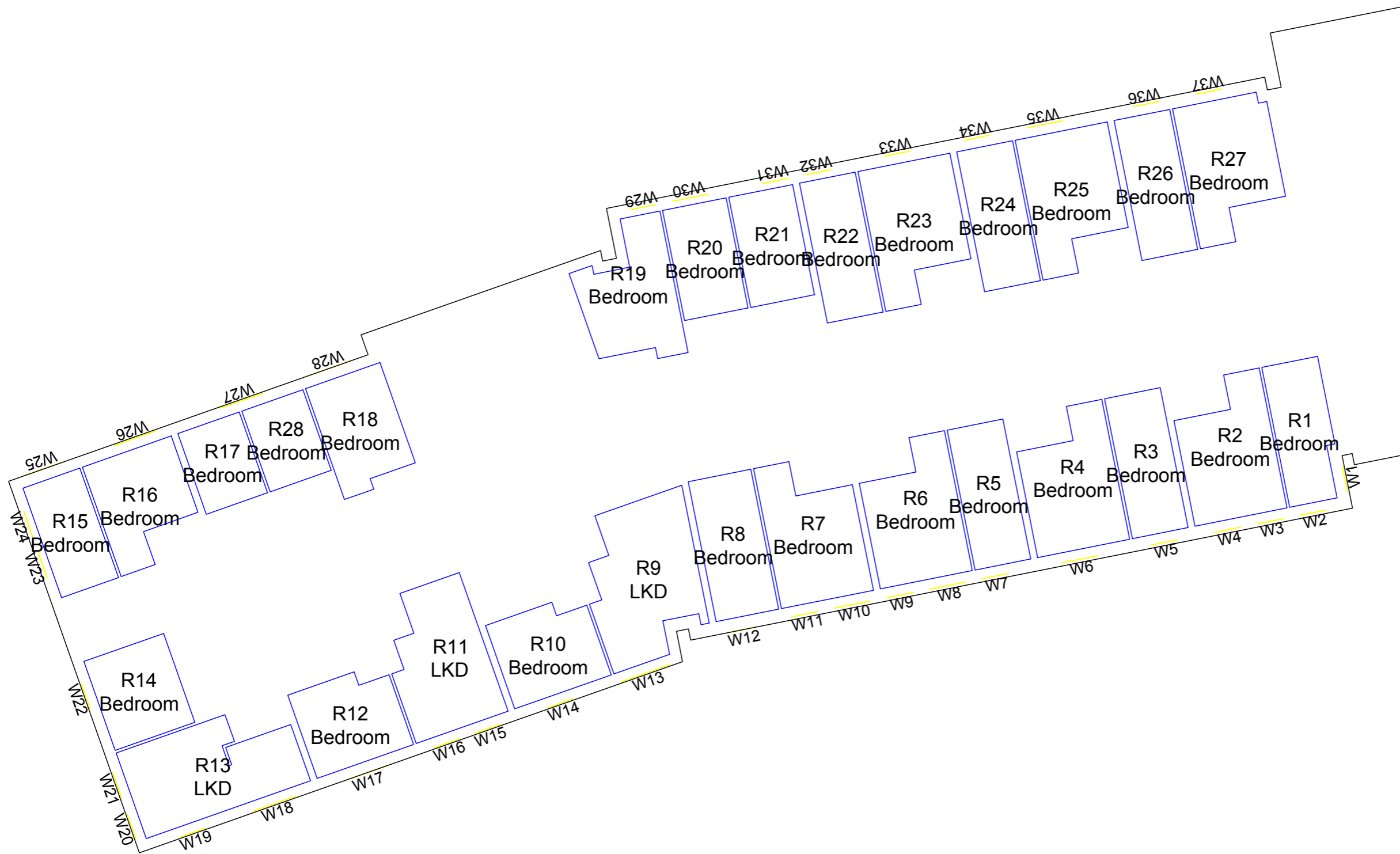
Sources of information

Simpson Haugh
10046-Z1-G200-3-Plot A&B.dwg
Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
Received 16/11/2017

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Title First Floor
Room Layout
Block F

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID12

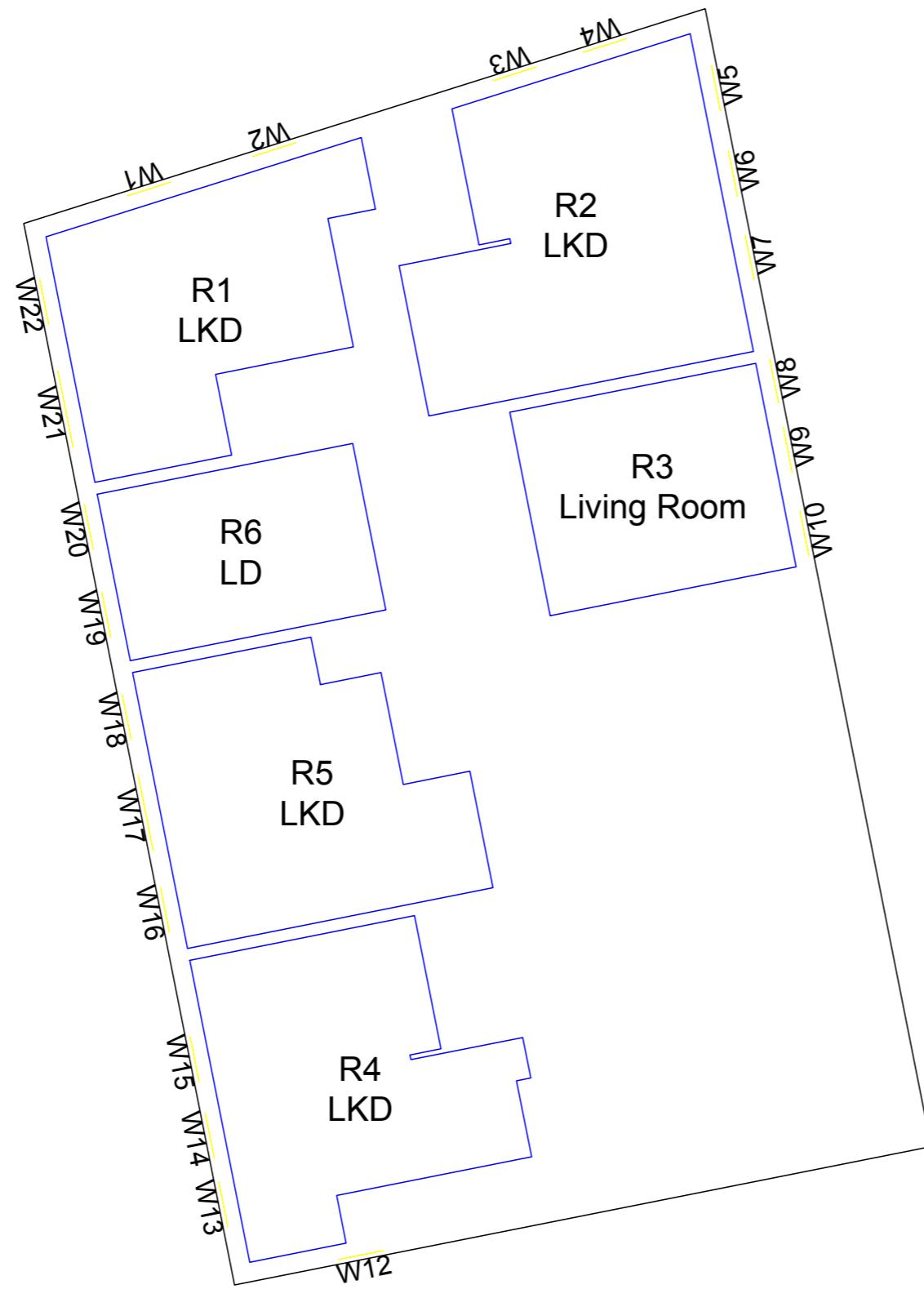
Sources of information

Simpson Haugh
10046-Z1-G200-3-Plot A&B.dwg
Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
Received 16/11/2017

Cloud10
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Title Ground Floor
Room Layout
Block G

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID13

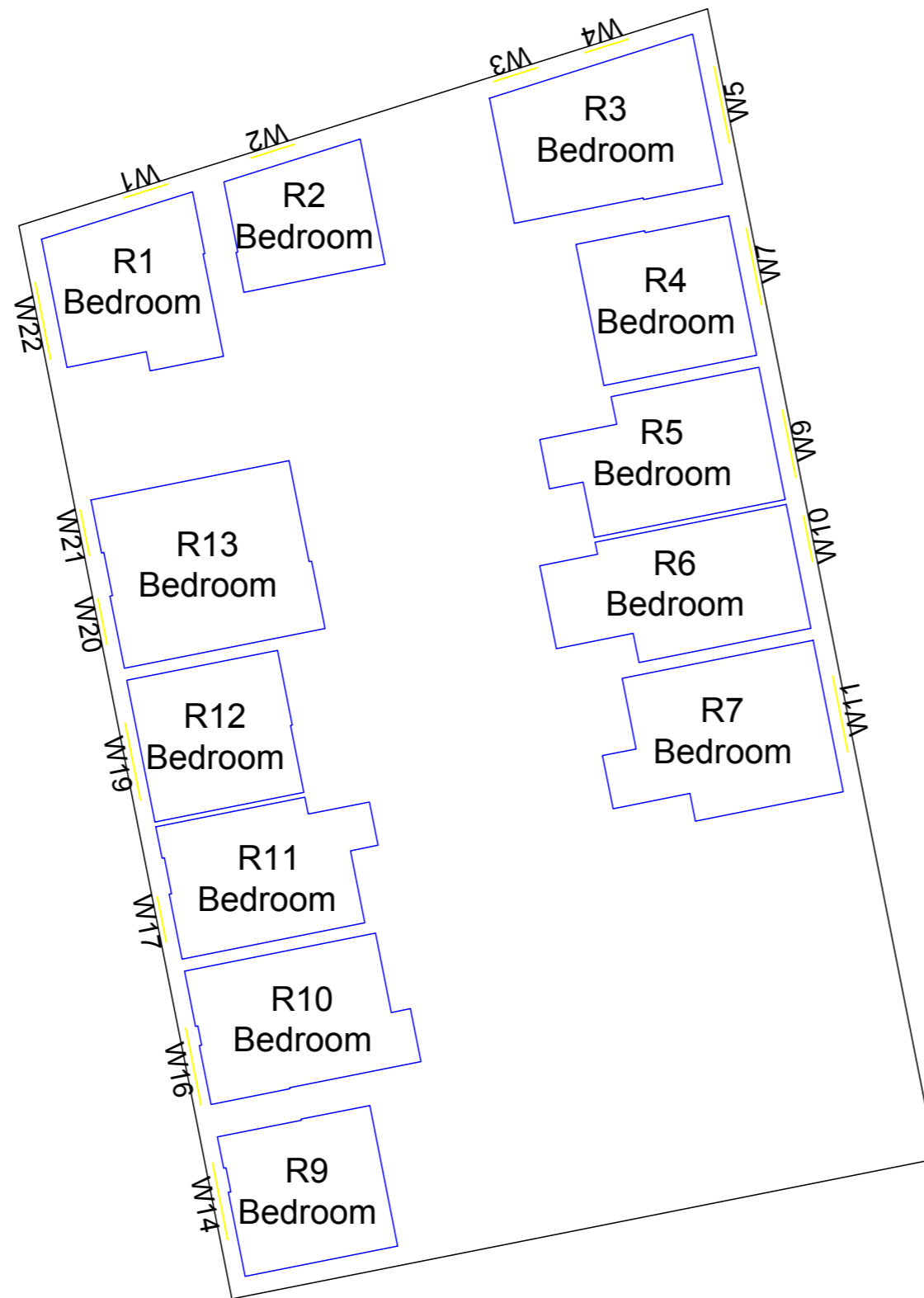
Sources of information

Simpson Haugh
10046-Z1-G200-3-Plot A&B.dwg
Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
Received 16/11/2017

Cloud10
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Title First Floor
Room Layout
Block G

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID14

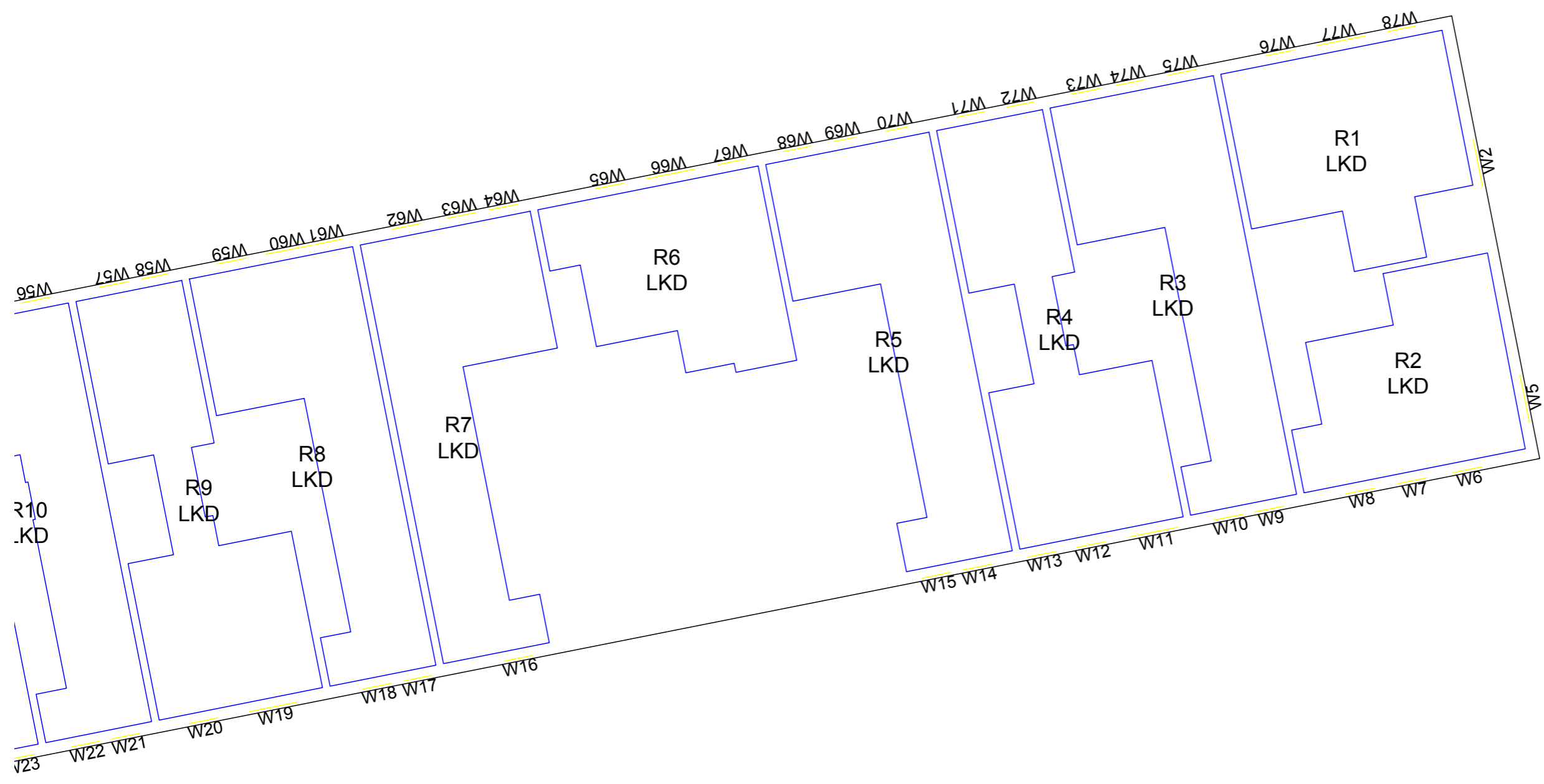
Sources of information

Simpson Haugh
10046-Z1-G200-3-Plot A&B.dwg
Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
Received 16/11/2017

Cloud10
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Title Ground Floor (1)
Room Layout
Block H

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID15

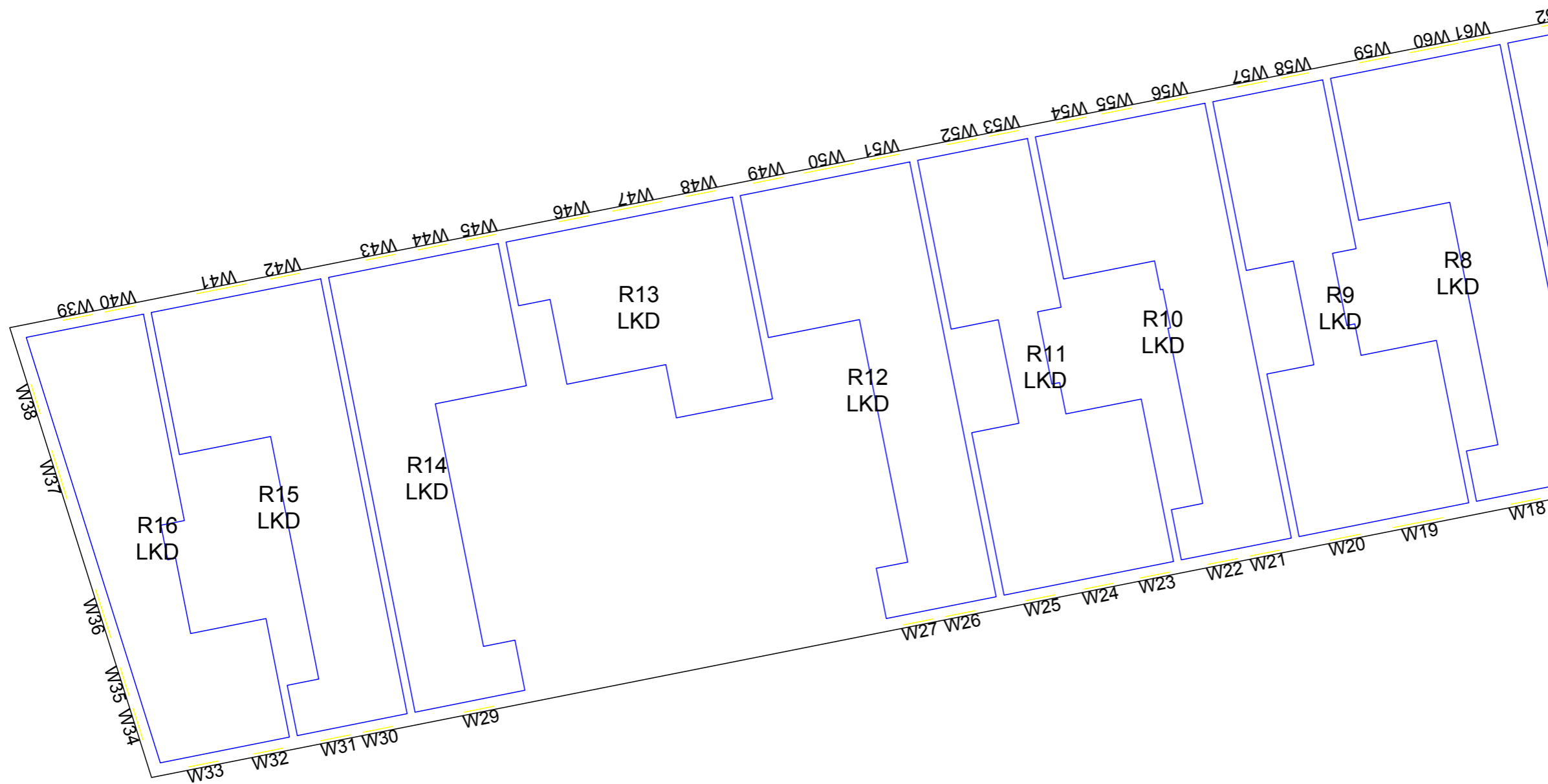
Sources of information

Simpson Haugh
10046-Z1-G200-3-Plot A&B.dwg
Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
Received 16/11/2017

Cloud10
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Title Ground Floor (2)
Room Layout
Block H

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID16

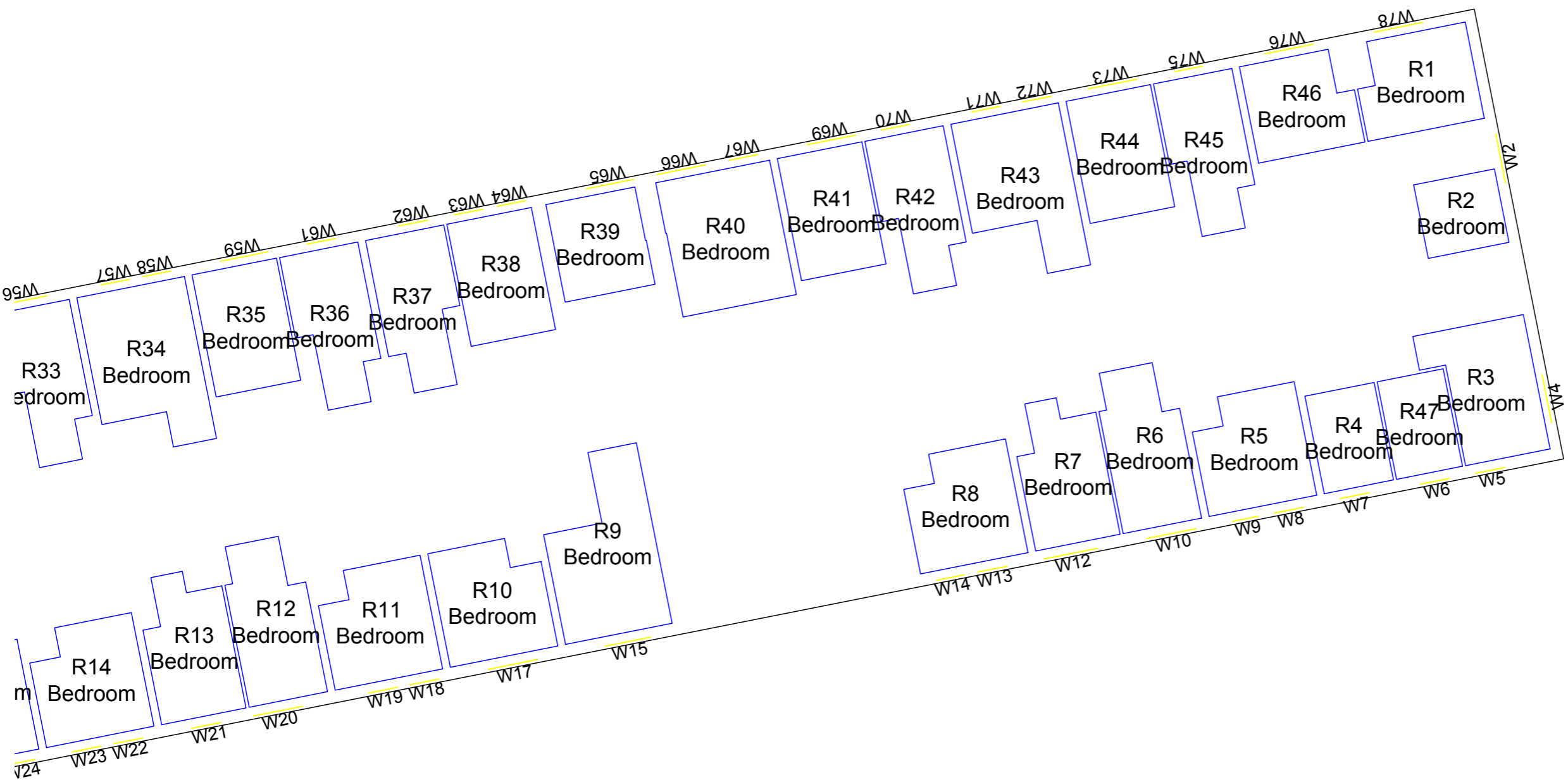
Sources of information

Simpson Haugh
 10046-Z1-G200-3-Plot A&B.dwg
 Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
 Received 16/11/2017

Cloud10
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Title First Floor (1)
 Room Layout
 Block H

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID17

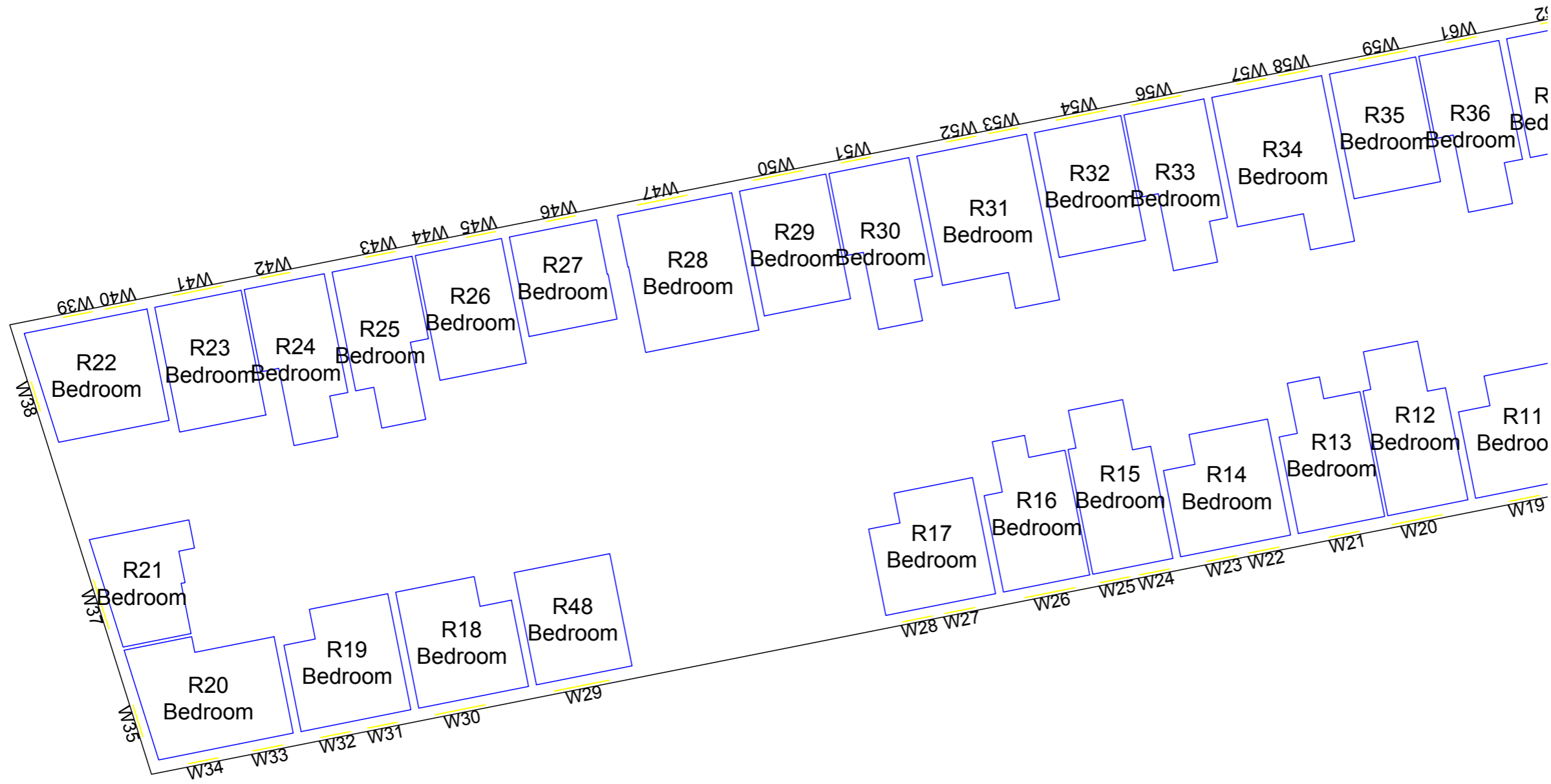
Sources of information

Simpson Haugh
 10046-Z1-G200-3-Plot A&B.dwg
 Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
 Received 16/11/2017

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 Charlton ROL-26-10-16-Meters.dwg
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Title First Floor (2)
 Room Layout
 Block H

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID18

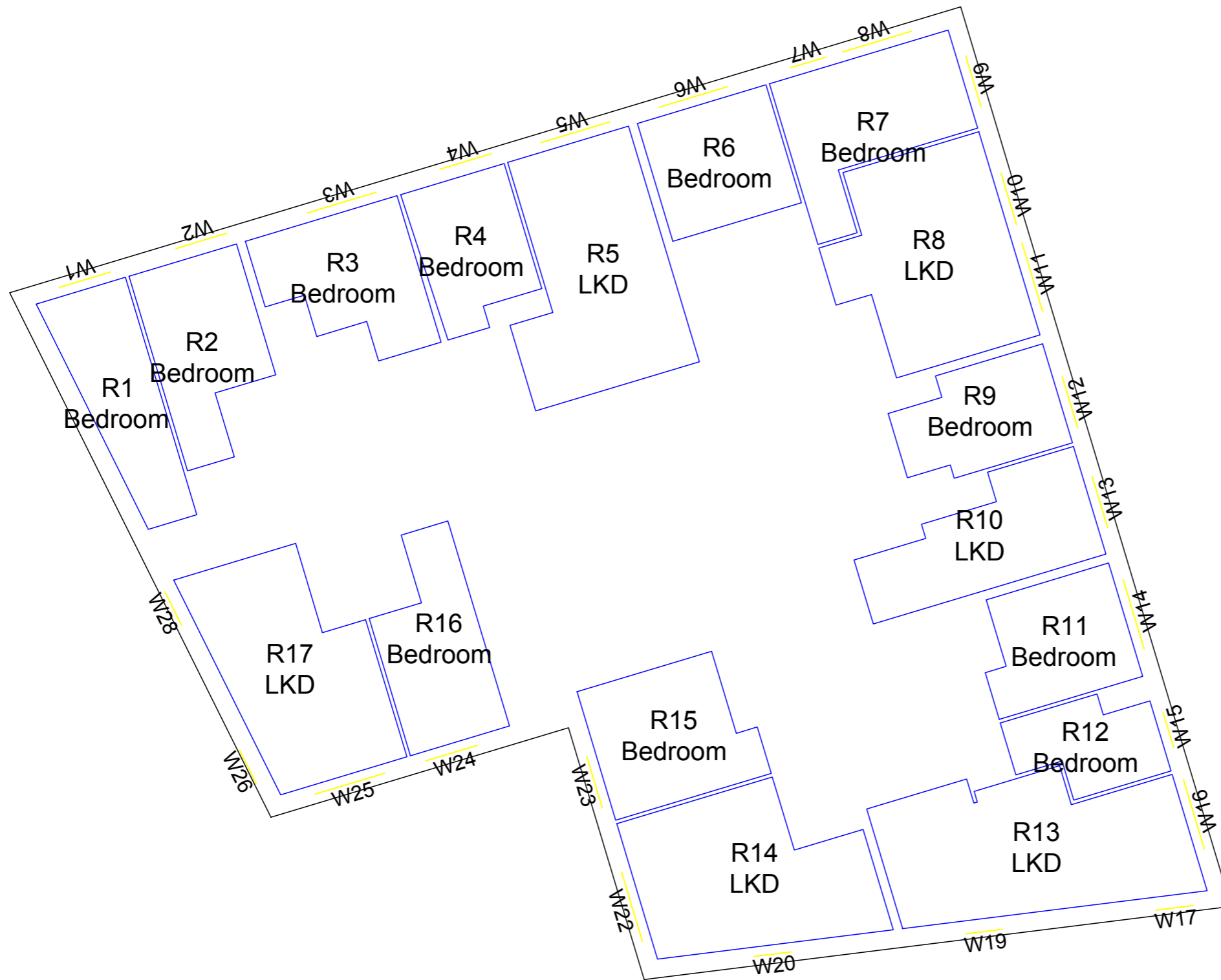
Sources of information

Simpson Haugh
10046-Z1-G200-3-Plot A&B.dwg
Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
Received 16/11/2017

Cloud10
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Title First Floor
Room Layout
Block J

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID19

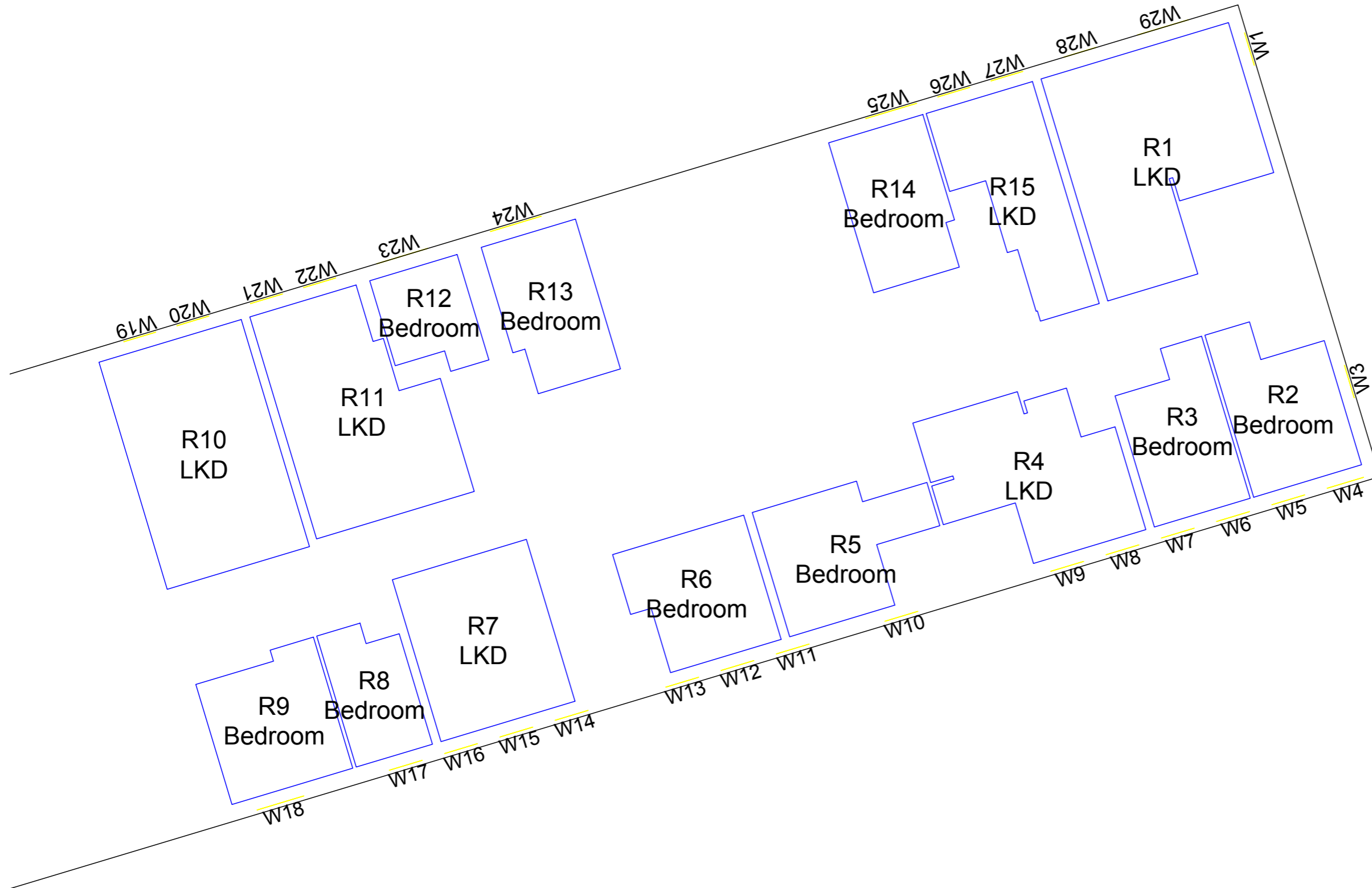
Sources of information

Simpson Haugh
10046-Z1-G200-3-Plot A&B.dwg
Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
Received 16/11/2017

Cloud10
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Title First Floor
Room Layout
Block K

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID20

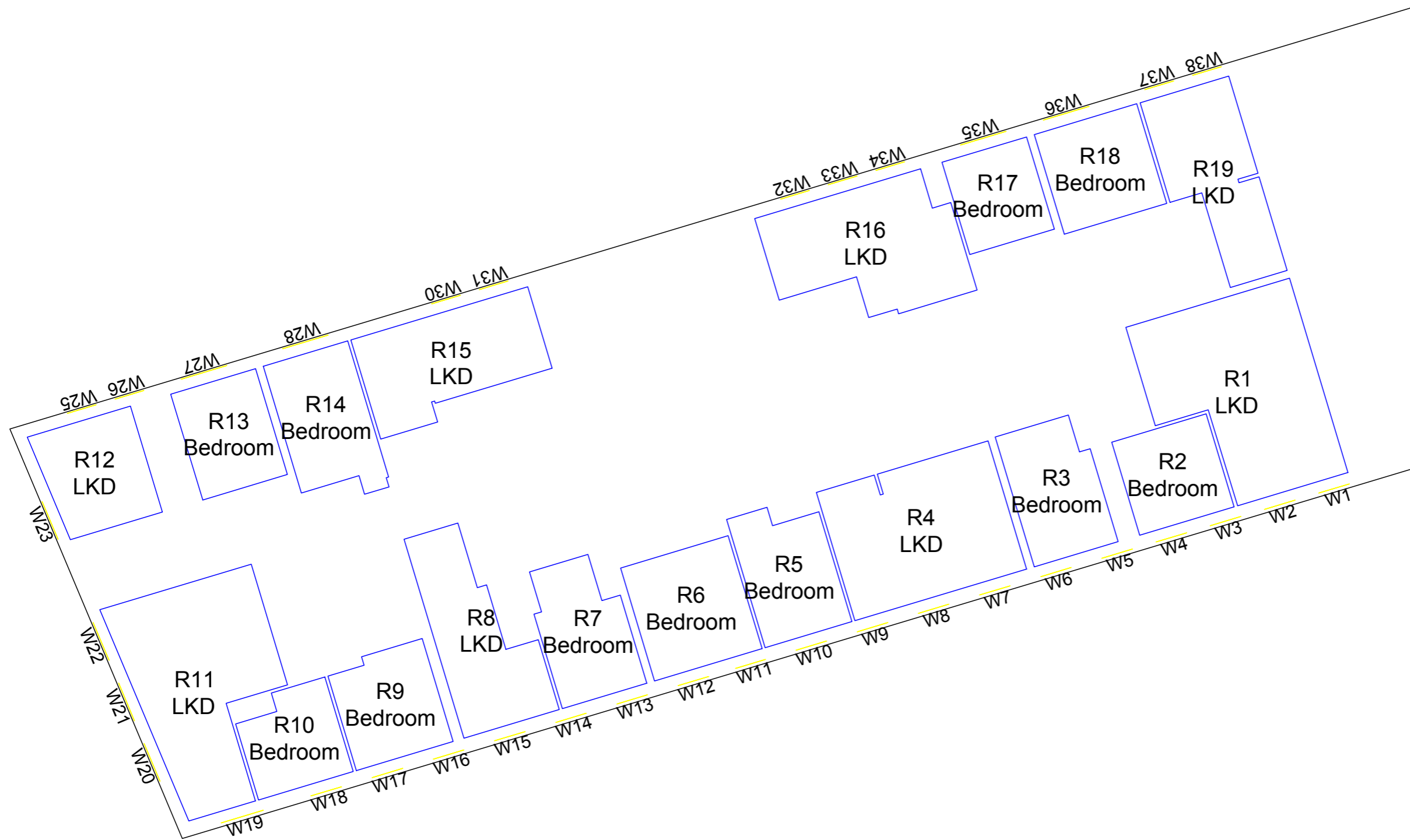
Sources of information

Simpson Haugh
10046-Z1-G200-3-Plot A&B.dwg
Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
Received 16/11/2017

Cloud10
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Title First Floor
Room Layout
Block L

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID21

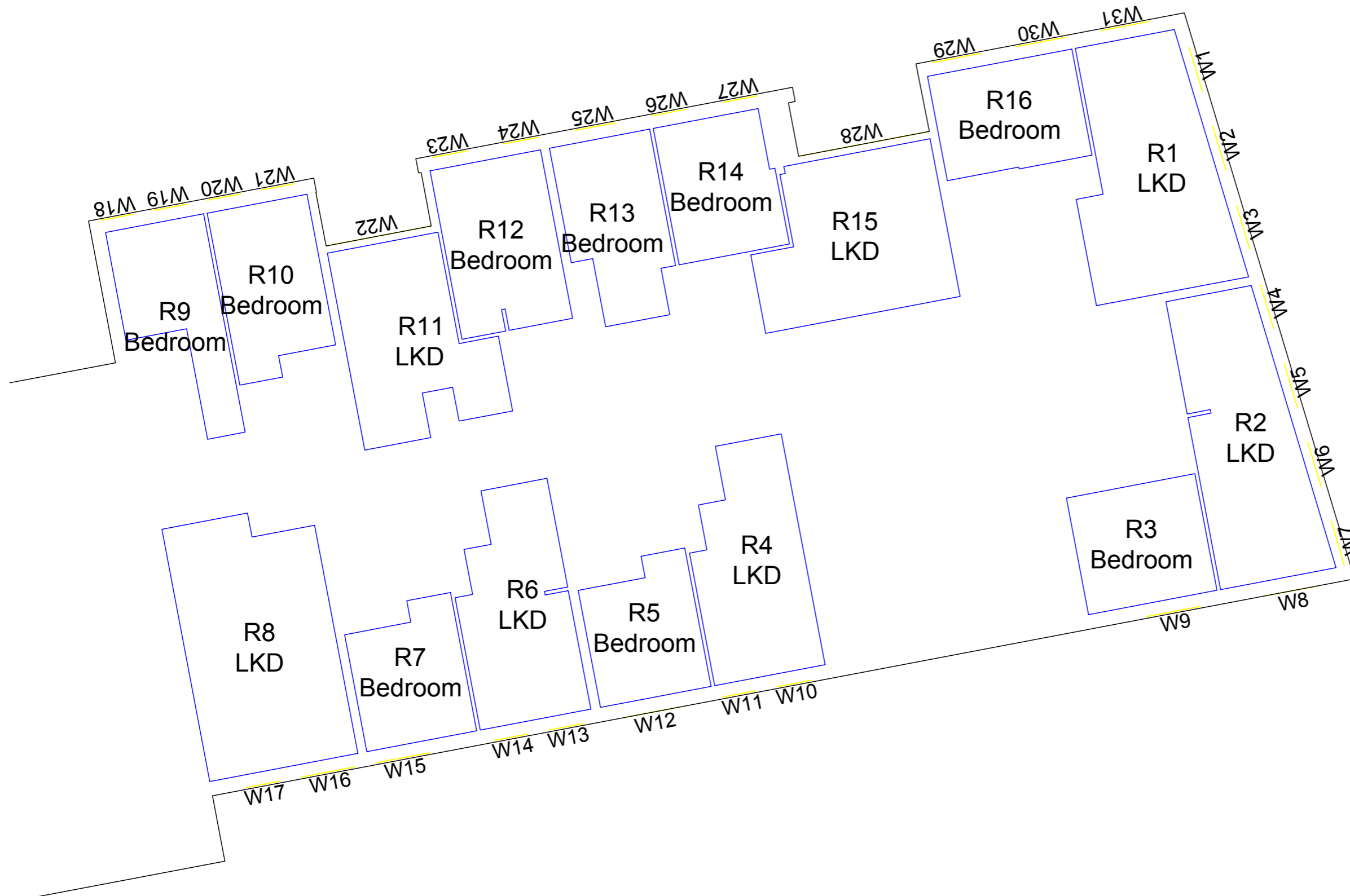
Sources of information

Simpson Haugh
 10046-Z1-G200-3-Plot A&B.dwg
 Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
 Received 16/11/2017

Cloud10
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Title First Floor
 Room Layout
 Block M

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID22

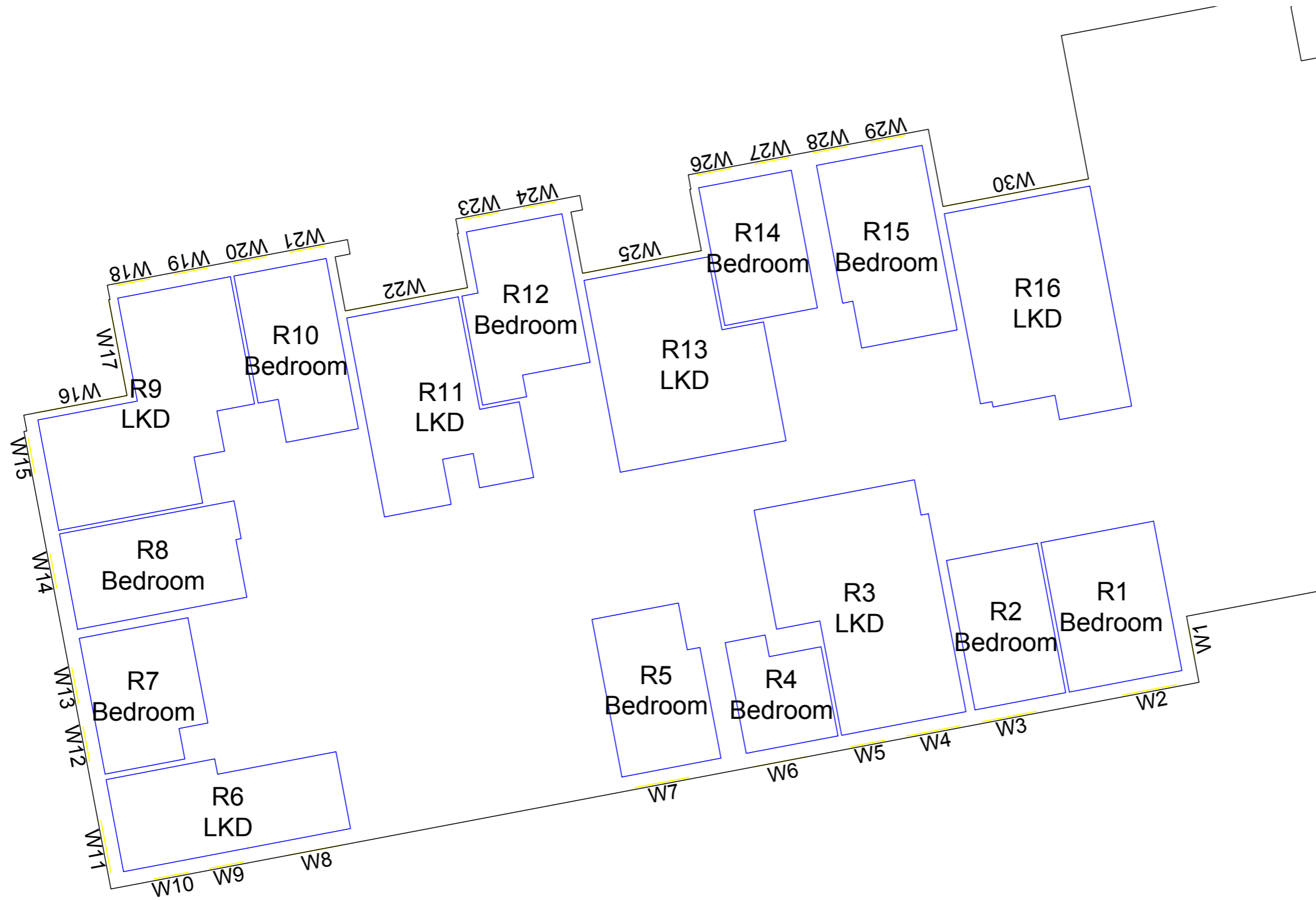
Sources of information

Simpson Haugh
 10046-Z1-G200-3-Plot A&B.dwg
 Received 17/02/2018

10046-A-DRG-Z0-G100-2001-PL-RS.dwg
 Received 16/11/2017

Cloud10
 Charlton ROL-26-10-16-Meters.dwg
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Title First Floor
 Room Layout
 Block N

Drawn FX Checked YH

Date 21/02/2018 Rel no. 09

Drawing no. 1864-ID23

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL APSH	ROOM WINTER APSH
Block A							
Ground	R1	W1-L	LKD	0.1			
		W1-U	LKD	0.6			
		W31-L	LKD	0.1			
		W31-U	LKD	0.4			
		W32-L	LKD	0.1			
		W32-U	LKD	0.4			
		W33-L	LKD	0.1			
		W33-U	LKD	0.5			
		W34-L	LKD	0.2			
		W34-U	LKD	0.7	3.2	20	4
Ground	R2	W2-L	LKD	0.1			
		W2-U	LKD	0.7			
		W3-L	LKD	0.4			
		W3-U	LKD	1.2			
		W4-L	LKD	0.1			
		W4-U	LKD	0.3			
		W5-L	LKD	0.2			
		W5-U	LKD	0.9			
		W6-L	LKD	0.2			
		W6-U	LKD	1.0	5.3	N/A	N/A
Ground	R3	W7-L	LKD	0.4			
		W7-U	LKD	1.1			
		W8-L	LKD	0.2			
		W8-U	LKD	0.6			
		W9-L	LKD	0.3			
		W9-U	LKD	1.4	4.0	N/A	N/A
Ground	R4	W10-L	LKD	0.5			
		W10-U	LKD	1.1			
		W11-L	LKD	0.2			
		W11-U	LKD	0.6			
		W12-L	LKD	0.3			
		W12-U	LKD	1.4	4.0	N/A	N/A
Ground	R5	W13-L	LKD	0.3			
		W13-U	LKD	1.3			
		W14-L	LKD	0.2			
		W14-U	LKD	0.4			
		W15-L	LKD	0.5			
		W15-U	LKD	0.9			
		W16-L	LKD	0.1			
		W16-U	LKD	0.3	3.8	25	4
Ground	R6	W17-L	LKD	0.0			
		W17-U	LKD	0.2			
		W18-L	LKD	0.1			
		W18-U	LKD	0.3			
		W19-L	LKD	0.1			
		W19-U	LKD	0.7			
		W20-L	LKD	0.1			
		W20-U	LKD	0.6	2.2	21	4
Ground	R7	W21-L	LKD	0.2			
		W21-U	LKD	0.7			
		W22-L	LKD	0.2			
		W22-U	LKD	0.7	1.7	16	0
Ground	R8	W23-L	LKD	0.1			
		W23-U	LKD	0.6			
		W24-L	LKD	0.1			
		W24-U	LKD	0.6			
		W25-L	LKD	0.1			
		W25-U	LKD	0.4	2.0	21	2

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL AP SH	ROOM WINTER AP SH
Ground	R9	W26-L	LKD	0.1			
		W26-U	LKD	0.4			
		W27-L	LKD	0.1			
		W27-U	LKD	0.4			
		W28-L	LKD	0.1			
		W28-U	LKD	0.3			
		W29-L	LKD	0.1			
		W29-U	LKD	0.5			
		W30-L	LKD	0.1			
		W30-U	LKD	0.5	2.7	50	11
First	R1	W1-L	Bedroom	0.5			
		W1-U	Bedroom	2.6			
		W34-L	Bedroom	0.8			
		W34-U	Bedroom	3.4	7.3	29	5
First	R2	W2-L	Bedroom	0.6			
		W2-U	Bedroom	2.8	3.4	N/A	N/A
First	R3	W3-L	Bedroom	0.4			
		W3-U	Bedroom	2.1			
		W4-L	Bedroom	0.4			
		W4-U	Bedroom	2.0	4.8	N/A	N/A
First	R4	W5-L	LKD	0.1			
		W5-U	LKD	0.5	0.6	N/A	N/A
First	R5	W6-L	Bedroom	0.2			
		W6-U	Bedroom	0.8			
		W7-L	Bedroom	0.3			
		W7-U	Bedroom	1.5	2.8	N/A	N/A
First	R6	W8-L	Bedroom	0.6			
		W8-U	Bedroom	2.7	3.2	N/A	N/A
First	R7	W9-L	Bedroom	0.5			
		W9-U	Bedroom	1.6			
		W10-L	Bedroom	0.8			
		W10-U	Bedroom	3.0	6.0	N/A	N/A
First	R8	W11-L	Bedroom	0.8			
		W11-U	Bedroom	3.8	4.6	N/A	N/A
First	R9	W12-L	Bedroom	0.6			
		W12-U	Bedroom	2.6			
		W13-L	Bedroom	0.3			
		W13-U	Bedroom	1.5	5.0	N/A	N/A
First	R10	W14-L	Bedroom	0.6			
		W14-U	Bedroom	1.9	2.5	N/A	N/A
First	R11	W15-L	Bedroom	0.5			
		W15-U	Bedroom	1.6	2.1	N/A	N/A
First	R12	W16-L	Bedroom	0.6			
		W16-U	Bedroom	1.7	2.2	N/A	N/A
First	R13	W17-L	Bedroom	0.7			
		W17-U	Bedroom	2.0	2.7	N/A	N/A
First	R14	W18-L	Bedroom	0.7			
		W18-U	Bedroom	1.9	2.6	N/A	N/A
First	R15	W19-L	Bedroom	0.6			
		W19-U	Bedroom	1.6	2.2	N/A	N/A

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL AP SH	ROOM WINTER AP SH
First	R16	W20-L	Bedroom	0.2	0.7	4	1
		W20-U	Bedroom	0.5			
First	R17	W21-L	Bedroom	0.2	0.8	6	0
		W21-U	Bedroom	0.6			
First	R18	W22-L	Bedroom	0.3	1.1	7	0
		W22-U	Bedroom	0.8			
First	R19	W23-L	Bedroom	0.3	1.0	9	0
		W23-U	Bedroom	0.7			
First	R20	W24-L	Bedroom	0.2	0.7	6	2
		W24-U	Bedroom	0.5			
First	R21	W25-L	Bedroom	0.1	0.6	7	2
		W25-U	Bedroom	0.5			
First	R22	W26-L	Bedroom	0.4	2.0	20	7
		W26-U	Bedroom	1.6			
First	R23	W27-L	Bedroom	0.4	2.4	23	8
		W27-U	Bedroom	1.9			
First	R24	W28-L	Bedroom	0.5	7.4	44	11
		W28-U	Bedroom	2.2			
		W29-L	Bedroom	0.5			
		W29-U	Bedroom	2.1			
		W30-L	Bedroom	0.5			
		W30-U	Bedroom	1.6			
First	R25	W31-L	Bedroom	0.5	2.6	25	4
		W31-U	Bedroom	2.1			
First	R26	W32-L	Bedroom	0.5	4.3	27	5
		W32-U	Bedroom	1.7			
		W33-L	Bedroom	0.5			
		W33-U	Bedroom	1.7			
Block B							
Ground	R1	W1-L	LKD	0.1	3.1	13	1
		W1-U	LKD	0.5			
		W29-L	LKD	0.1			
		W29-U	LKD	0.7			
		W30-L	LKD	0.1			
		W30-U	LKD	0.6			
		W31-L	LKD	0.1			
		W31-U	LKD	0.7			
Ground	R2	W4-L	LKD	0.4	3.3	N/A	N/A
		W4-U	LKD	1.0			
		W5-L	LKD	0.1			
		W5-U	LKD	0.5			
		W6-L	LKD	0.2			
		W6-U	LKD	1.1			
Ground	R3	W7-L	LKD	0.3	3.1	N/A	N/A
		W7-U	LKD	0.8			
		W8-L	LKD	0.1			
		W8-U	LKD	0.5			
		W9-L	LKD	0.2			
		W9-U	LKD	1.1			
Ground	R4	W10-L	LKD	0.3			
		W10-U	LKD	0.7			
		W11-L	LKD	0.1			

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL AP SH	ROOM WINTER AP SH
Ground	R5	W11-U	LKD	0.5	2.9	N/A	N/A
		W12-L	LKD	0.2			
		W12-U	LKD	1.1			
	Ground	R5	W13-L	LKD		0.4	
			W13-U	LKD		0.9	
			W14-L	LKD		0.1	
			W14-U	LKD		0.4	
			W15-L	LKD		0.2	
			W15-U	LKD		1.0	
W16-L			LKD	0.2			
W16-U			LKD	1.0	4.2	N/A	N/A
Ground	R6	W17-L	LKD	0.1			
		W17-U	LKD	0.5			
		W18-L	LKD	0.1			
		W18-U	LKD	0.6			
		W19-L	LKD	0.1			
		W19-U	LKD	0.7			
		W32-L	LKD	0.1			
		W32-U	LKD	0.5	2.6	6	0
Ground	R7	W20-L	LKD	0.1			
		W20-U	LKD	0.3			
		W21-L	LKD	0.1			
		W21-U	LKD	0.6			
		W22-L	LKD	0.1			
		W22-U	LKD	0.6	1.8	13	0
Ground	R8	W23-L	LKD	0.1			
		W23-U	LKD	0.7			
		W24-L	LKD	0.1			
		W24-U	LKD	0.7			
		W25-L	LKD	0.1			
		W25-U	LKD	0.6	2.3	20	3
Ground	R9	W26-L	LKD	0.1			
		W26-U	LKD	0.1			
		W27-L	LKD	0.1			
		W27-U	LKD	0.4			
		W28-L	LKD	0.1			
		W28-U	LKD	0.6	1.5	3	0
First	R1	W1-L	Bedroom	0.3			
		W1-U	Bedroom	1.6	1.9	N/A	N/A
First	R2	W2-L	Bedroom	0.3			
		W2-U	Bedroom	1.8	2.1	N/A	N/A
First	R3	W3-L	Bedroom	0.4			
		W3-U	Bedroom	1.5	1.9	N/A	N/A
First	R4	W4-L	Bedroom	0.3			
		W4-U	Bedroom	1.0	1.3	N/A	N/A
First	R5	W5-L	Bedroom	0.4			
		W5-U	Bedroom	1.6	2.0	N/A	N/A
First	R6	W6-L	Bedroom	0.4			
		W6-U	Bedroom	1.5	1.8	N/A	N/A
First	R7	W7-L	LKD	0.4			
		W7-U	LKD	1.7	2.2	N/A	N/A
First	R8	W8-L	Bedroom	0.6			
		W8-U	Bedroom	1.3	1.9	N/A	N/A

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL AP SH	ROOM WINTER AP SH
First	R9	W9-L	Bedroom	0.4	3.5	N/A	N/A
		W9-U	Bedroom	1.4			
		W10-L	Bedroom	0.4			
		W10-U	Bedroom	1.4			
First	R10	W11-L	Bedroom	0.6	2.5	N/A	N/A
		W11-U	Bedroom	2.0			
First	R11	W12-L	Bedroom	0.3	2.7	N/A	N/A
		W12-U	Bedroom	1.1			
		W13-L	Bedroom	0.3			
		W13-U	Bedroom	0.9			
First	R12	W14-L	Bedroom	0.1	0.1	0	0
		W14-U	Bedroom	0.0			
First	R13	W15-L	Bedroom	0.2	0.2	0	0
		W15-U	Bedroom	0.0			
First	R14	W16-L	Bedroom	0.2	0.8	2	0
		W16-U	Bedroom	0.5			
First	R15	W17-L	Bedroom	0.4	4.0	19	2
		W17-U	Bedroom	1.6			
		W18-L	Bedroom	0.4			
		W18-U	Bedroom	1.6			
First	R16	W19-L	Bedroom	0.5	2.5	22	4
		W19-U	Bedroom	2.0			
First	R17	W20-L	Bedroom	0.3	1.3	19	2
		W20-U	Bedroom	1.0			
First	R18	W21-L	Bedroom	0.3	0.9	6	4
		W21-U	Bedroom	0.6			
First	R19	W22-L	Bedroom	0.2	1.1	14	2
		W22-U	Bedroom	0.9			
First	R20	W23-L	Bedroom	0.4	1.7	14	3
		W23-U	Bedroom	1.4			
First	R21	W24-L	Bedroom	0.2	1.5	12	3
		W24-U	Bedroom	0.8			
		W25-L	Bedroom	0.1			
		W25-U	Bedroom	0.3			
First	R22	W26-L	Bedroom	0.2	0.6	2	1
		W26-U	Bedroom	0.4			
Block C							
Ground	R1	W1-L	LKD	0.0	2.7	11	0
		W1-U	LKD	0.2			
		W18-L	LKD	0.1			
		W18-U	LKD	0.7			
		W19-L	LKD	0.1			
		W19-U	LKD	0.7			
		W20-L	LKD	0.1			
		W20-U	LKD	0.7			
Ground	R2	W2-L	LKD	0.1	0.4		
		W2-U	LKD	0.4			
		W3-L	LKD	0.5			
		W3-U	LKD	1.4			
		W4-L	LKD	0.1			
		W4-U	LKD	0.4			

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL APSH	ROOM WINTER APSH
		W5-L	LKD	0.3			
		W5-U	LKD	1.3	4.5	N/A	N/A
Ground	R3	W6-L	LKD	0.4			
		W6-U	LKD	1.3			
		W7-L	LKD	0.1			
		W7-U	LKD	0.4			
		W8-L	LKD	0.3			
		W8-U	LKD	1.3	3.8	N/A	N/A
Ground	R4	W9-L	LKD	0.5			
		W9-U	LKD	1.5			
		W10-L	LKD	0.1			
		W10-U	LKD	0.4			
		W11-L	LKD	0.2			
		W11-U	LKD	1.0	3.7	N/A	N/A
Ground	R5	W12-L	LKD	0.1			
		W12-U	LKD	0.4			
		W13-L	LKD	0.1			
		W13-U	LKD	0.5			
		W14-L	LKD	0.1			
		W14-U	LKD	0.5	1.7	12	2
Ground	R6	W15-L	LKD	0.2			
		W15-U	LKD	0.7			
		W16-L	LKD	0.2			
		W16-U	LKD	0.7			
		W17-L	LKD	0.2			
		W17-U	LKD	0.7	2.5	11	0
First	R1	W1-L	Bedroom	0.1			
		W1-U	Bedroom	0.2			
		W23-L	Bedroom	0.3			
		W23-U	Bedroom	0.5	1.2	6	0
First	R2	W2-L	Bedroom	0.2			
		W2-U	Bedroom	0.7			
		W3-L	Bedroom	0.3			
		W3-U	Bedroom	1.2			
		W4-L	Bedroom	0.5			
		W4-U	Bedroom	2.0			
		W5-L	Bedroom	0.5			
		W5-U	Bedroom	2.0	7.4	N/A	N/A
First	R3	W6-L	Bedroom	0.4			
		W6-U	Bedroom	1.6			
		W7-L	Bedroom	0.4			
		W7-U	Bedroom	1.6	4.0	N/A	N/A
First	R4	W8-L	Bedroom	0.4			
		W8-U	Bedroom	1.6			
		W9-L	Bedroom	0.4			
		W9-U	Bedroom	1.6	4.0	N/A	N/A
First	R5	W10-L	Bedroom	0.6			
		W10-U	Bedroom	2.1	2.6	N/A	N/A
First	R6	W11-L	Bedroom	0.5			
		W11-U	Bedroom	1.8	2.2	N/A	N/A
First	R7	W13-L	Bedroom	0.7			
		W13-U	Bedroom	2.7	3.4	N/A	N/A
First	R8	W14-L	Bedroom	0.4			
		W14-U	Bedroom	1.6	2.0	N/A	N/A

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL AP SH	ROOM WINTER AP SH																																																																																																																																																																																																																						
First	R9	W15-L	Bedroom	0.2	0.4	1	1																																																																																																																																																																																																																						
		W15-U	Bedroom	0.3				First	R10	W16-L	Bedroom	0.2	1.0	3	0	W16-U	Bedroom	0.3	W17-L	Bedroom	0.2	W17-U	Bedroom	0.3	First	R11	W18-L	Bedroom	0.4	0.9	4	0	W18-U	Bedroom	0.5	First	R12	W19-L	Bedroom	0.3	1.4	4	0	W19-U	Bedroom	0.4	W20-L	Bedroom	0.3	W20-U	Bedroom	0.4	First	R13	W21-L	Bedroom	0.3	1.4	5	0	W21-U	Bedroom	0.4	W22-L	Bedroom	0.3	W22-U	Bedroom	0.4	Block D								Ground	R1	W1-L	LKD	0.1	2.3	N/A	N/A	W1-U	LKD	0.8	W2-L	LKD	0.1	W2-U	LKD	0.8	W3-L	LKD	0.0	W3-U	LKD	0.1	W4-L	LKD	0.0	W4-U	LKD	0.2	W5-L	LKD	0.0	W5-U	LKD	0.2	Ground	R2	W6-L	LKD	0.0	0.9	N/A	N/A	W6-U	LKD	0.3	W7-L	LKD	0.1	W7-U	LKD	0.6	Ground	R3	W8-L	LKD	0.0	1.1	N/A	N/A	W8-U	LKD	0.4	W9-L	LKD	0.1	W9-U	LKD	0.6	Ground	R4	W10-L	LKD	0.0	0.9	N/A	N/A	W10-U	LKD	0.3	W11-L	LKD	0.1	W11-U	LKD	0.5	Ground	R5	W12-L	LKD	0.0	1.1	4	0	W12-U	LKD	0.3	W13-L	LKD	0.1	W13-U	LKD	0.4	W14	LKD	0.2	W15	LKD	0.1	Ground	R6	W16	LKD	0.2	3.6	24	8	W18-L	LKD	0.1	W18-U	LKD	1.2	W19-L	LKD	0.1	W19-U	LKD	1.2	W20-L	LKD	0.1	W20-U	LKD	0.7	Ground	R7	W21-L	LKD	0.1	1.4			W21-U
First	R10	W16-L	Bedroom	0.2	1.0	3	0																																																																																																																																																																																																																						
		W16-U	Bedroom	0.3																																																																																																																																																																																																																									
		W17-L	Bedroom	0.2																																																																																																																																																																																																																									
		W17-U	Bedroom	0.3																																																																																																																																																																																																																									
First	R11	W18-L	Bedroom	0.4	0.9	4	0																																																																																																																																																																																																																						
		W18-U	Bedroom	0.5																																																																																																																																																																																																																									
First	R12	W19-L	Bedroom	0.3	1.4	4	0																																																																																																																																																																																																																						
		W19-U	Bedroom	0.4																																																																																																																																																																																																																									
		W20-L	Bedroom	0.3																																																																																																																																																																																																																									
		W20-U	Bedroom	0.4																																																																																																																																																																																																																									
First	R13	W21-L	Bedroom	0.3	1.4	5	0																																																																																																																																																																																																																						
		W21-U	Bedroom	0.4																																																																																																																																																																																																																									
		W22-L	Bedroom	0.3																																																																																																																																																																																																																									
		W22-U	Bedroom	0.4																																																																																																																																																																																																																									
Block D																																																																																																																																																																																																																													
Ground	R1	W1-L	LKD	0.1	2.3	N/A	N/A																																																																																																																																																																																																																						
		W1-U	LKD	0.8																																																																																																																																																																																																																									
		W2-L	LKD	0.1																																																																																																																																																																																																																									
		W2-U	LKD	0.8																																																																																																																																																																																																																									
		W3-L	LKD	0.0																																																																																																																																																																																																																									
		W3-U	LKD	0.1																																																																																																																																																																																																																									
		W4-L	LKD	0.0																																																																																																																																																																																																																									
		W4-U	LKD	0.2																																																																																																																																																																																																																									
		W5-L	LKD	0.0																																																																																																																																																																																																																									
		W5-U	LKD	0.2																																																																																																																																																																																																																									
Ground	R2	W6-L	LKD	0.0	0.9	N/A	N/A																																																																																																																																																																																																																						
		W6-U	LKD	0.3																																																																																																																																																																																																																									
		W7-L	LKD	0.1																																																																																																																																																																																																																									
		W7-U	LKD	0.6																																																																																																																																																																																																																									
Ground	R3	W8-L	LKD	0.0	1.1	N/A	N/A																																																																																																																																																																																																																						
		W8-U	LKD	0.4																																																																																																																																																																																																																									
		W9-L	LKD	0.1																																																																																																																																																																																																																									
		W9-U	LKD	0.6																																																																																																																																																																																																																									
Ground	R4	W10-L	LKD	0.0	0.9	N/A	N/A																																																																																																																																																																																																																						
		W10-U	LKD	0.3																																																																																																																																																																																																																									
		W11-L	LKD	0.1																																																																																																																																																																																																																									
		W11-U	LKD	0.5																																																																																																																																																																																																																									
Ground	R5	W12-L	LKD	0.0	1.1	4	0																																																																																																																																																																																																																						
		W12-U	LKD	0.3																																																																																																																																																																																																																									
		W13-L	LKD	0.1																																																																																																																																																																																																																									
		W13-U	LKD	0.4																																																																																																																																																																																																																									
		W14	LKD	0.2																																																																																																																																																																																																																									
		W15	LKD	0.1																																																																																																																																																																																																																									
Ground	R6	W16	LKD	0.2	3.6	24	8																																																																																																																																																																																																																						
		W18-L	LKD	0.1																																																																																																																																																																																																																									
		W18-U	LKD	1.2																																																																																																																																																																																																																									
		W19-L	LKD	0.1																																																																																																																																																																																																																									
		W19-U	LKD	1.2																																																																																																																																																																																																																									
		W20-L	LKD	0.1																																																																																																																																																																																																																									
		W20-U	LKD	0.7																																																																																																																																																																																																																									
Ground	R7	W21-L	LKD	0.1	1.4																																																																																																																																																																																																																								
		W21-U	LKD	1.4																																																																																																																																																																																																																									
		W22-L	LKD	0.2																																																																																																																																																																																																																									

Floor	Room ID	Window ID	Room Use	ADF	TOTAL	ROOM TOTAL	ROOM WINTER
					ADF	APSH	APSH
		W22-U	LKD	0.8	2.5	19	4
Ground	R8	W23-L	LKD	0.2			
		W23-U	LKD	1.1			
		W24-L	LKD	0.2			
		W24-U	LKD	2.0	3.5	24	5
First	R1	W1-L	Living Room	0.4			
		W1-U	Living Room	1.9			
		W30-L	Living Room	0.3			
		W30-U	Living Room	1.2			
		W31-L	Living Room	0.3			
		W31-U	Living Room	0.9	4.9	25	2
First	R2	W2-L	Bedroom	0.7			
		W2-U	Bedroom	3.2	3.9	N/A	N/A
First	R3	W4-L	Bedroom	0.3			
		W4-U	Bedroom	1.6			
		W5-L	Bedroom	0.1			
		W5-U	Bedroom	0.2			
		W3-L	Bedroom	0.5			
		W3-U	Bedroom	2.3	4.9	N/A	N/A
First	R4	W6-L	Bedroom	0.2			
		W6-U	Bedroom	1.0	1.2	N/A	N/A
First	R5	W7-L	Bedroom	0.2			
		W7-U	Bedroom	0.8	1.0	N/A	N/A
First	R6	W8-L	Bedroom	0.2			
		W8-U	Bedroom	0.4	0.6	N/A	N/A
First	R7	W9-L	Bedroom	0.1			
		W9-U	Bedroom	0.3			
		W10-L	Bedroom	0.1			
		W10-U	Bedroom	0.7	1.3	N/A	N/A
First	R8	W11-L	Bedroom	0.3			
		W11-U	Bedroom	1.3	1.6	N/A	N/A
First	R9	W12-L	Bedroom	0.1			
		W12-U	Bedroom	0.2			
		W13-L	Bedroom	0.1			
		W13-U	Bedroom	0.4	0.8	N/A	N/A
First	R10	W14-L	Bedroom	0.2			
		W14-U	Bedroom	0.8	1.0	N/A	N/A
First	R11	W15-L	Bedroom	0.1			
		W15-U	Bedroom	0.4	0.5	N/A	N/A
First	R12	W16-L	Bedroom	0.1			
		W16-U	Bedroom	0.7			
		W17-L	Bedroom	0.2			
		W17-U	Bedroom	0.8	1.8	N/A	N/A
First	R13	W18-L	Bedroom	0.2			
		W18-U	Bedroom	1.1			
		W20-L	Bedroom	0.1			
		W20-U	Bedroom	0.4	1.7	4	0
First	R14	W21-L	Bedroom	0.1			
		W21-U	Bedroom	0.7			
		W23-L	Bedroom	0.3			
		W23-U	Bedroom	0.9	2.1	15	4

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL AP SH	ROOM WINTER AP SH
First	R15	W24-L	Bedroom	0.4	2.2	11	4
		W24-U	Bedroom	1.8			
First	R16	W25-L	Bedroom	0.4	2.7	19	4
		W25-U	Bedroom	2.2			
First	R17	W26-L	Bedroom	0.3	1.4	14	4
		W26-U	Bedroom	1.1			
First	R18	W27-L	Bedroom	0.3	1.8	7	0
		W27-U	Bedroom	1.5			
First	R19	W28-L	Bedroom	0.4	2.6	21	0
		W28-U	Bedroom	2.2			
First	R20	W29-L	Bedroom	0.5	2.8	26	2
		W29-U	Bedroom	2.3			
Block E							
Ground	R1	W1	LKD	0.2	3.7	26	6
		W20-L	LKD	0.1			
		W20-U	LKD	1.2			
		W22-L	LKD	0.1			
		W22-U	LKD	1.2			
		W21-L	LKD	0.1			
		W21-U	LKD	0.7			
Ground	R2	W4-L	LKD	0.1	0.3	N/A	N/A
		W4-U	LKD	0.1			
		W5-L	LKD	0.1			
		W5-U	LKD	0.0			
Ground	R3	W6-L	LKD	0.1	0.3	N/A	N/A
		W6-U	LKD	0.1			
		W7-L	LKD	0.1			
		W7-U	LKD	0.0			
Ground	R4	W8-L	LKD	0.1	0.7	N/A	N/A
		W8-U	LKD	0.1			
		W9-L	LKD	0.2			
		W9-U	LKD	0.1			
		W10-L	LKD	0.1			
		W10-U	LKD	0.0			
Ground	R5	W11-L	LKD	0.2	0.6	N/A	N/A
		W11-U	LKD	0.2			
		W12-L	LKD	0.1			
		W12-U	LKD	0.1			
Ground	R6	W13-L	LKD	0.2	0.8	N/A	N/A
		W13-U	LKD	0.3			
		W14-L	LKD	0.1			
		W14-U	LKD	0.2			
Ground	R7	W15-L	LKD	0.1	2.0	24	4
		W15-U	LKD	1.1			
		W16-L	LKD	0.1			
		W16-U	LKD	0.6			
Ground	R8	W17-L	LKD	0.1	3.2	24	4
		W17-U	LKD	1.1			
		W18-L	LKD	0.1			
		W18-U	LKD	1.1			
		W19-L	LKD	0.1			
		W19-U	LKD	0.6			

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL AP SH	ROOM WINTER AP SH
First	R1	W28-L	Bedroom	0.3	1.1	11	3
		W28-U	Bedroom	0.8			
First	R2	W3-L	Bedroom	0.1	1.8	N/A	N/A
		W3-U	Bedroom	0.5			
		W5-L	Bedroom	0.2			
		W5-U	Bedroom	1.0			
First	R3	W6-L	Bedroom	0.3	2.6	N/A	N/A
		W6-U	Bedroom	1.3			
		W7-L	Bedroom	0.2			
		W7-U	Bedroom	0.8			
First	R4	W8-L	Bedroom	0.2	0.6	N/A	N/A
		W8-U	Bedroom	0.4			
First	R5	W9-L	Bedroom	0.2	1.6	N/A	N/A
		W9-U	Bedroom	0.5			
		W10-L	Bedroom	0.2			
		W10-U	Bedroom	0.8			
First	R6	W11-L	Bedroom	0.3	1.8	N/A	N/A
		W11-U	Bedroom	1.5			
First	R7	W12-L	Bedroom	0.1	0.5	N/A	N/A
		W12-U	Bedroom	0.3			
First	R8	W13-L	Bedroom	0.2	1.2	N/A	N/A
		W13-U	Bedroom	1.0			
First	R9	W14-L	Bedroom	0.2	1.2	N/A	N/A
		W14-U	Bedroom	0.7			
		W15-L	Bedroom	0.1			
		W15-U	Bedroom	0.3			
First	R10	W16-L	Bedroom	0.3	1.7	N/A	N/A
		W16-U	Bedroom	1.4			
First	R11	W17-L	Bedroom	0.2	1.3	N/A	N/A
		W17-U	Bedroom	1.1			
First	R12	W18-L	Bedroom	0.1	2.5	26	7
		W18-U	Bedroom	0.4			
		W19-L	Bedroom	0.3			
		W19-U	Bedroom	1.6			
First	R13	W20-L	Bedroom	0.4	2.0	26	5
		W20-U	Bedroom	1.7			
First	R14	W21-L	Bedroom	0.5	2.2	11	4
		W21-U	Bedroom	1.8			
First	R15	W22-L	Bedroom	0.4	3.6	13	3
		W22-U	Bedroom	1.4			
		W23-L	Bedroom	0.4			
		W23-U	Bedroom	1.3			
First	R16	W24-L	Bedroom	0.3	3.9	22	3
		W24-U	Bedroom	1.6			
		W25-L	Bedroom	0.3			
		W25-U	Bedroom	1.7			
First	R17	W26-L	Bedroom	0.6	3.7	29	6
		W26-U	Bedroom	3.1			
First	R18	W27-L	Bedroom	0.5	2.9	25	4
		W27-U	Bedroom	2.4			

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL APSH	ROOM WINTER APSH
First	R19	W23-L	Bedroom	0.2	2.5	13	3
		W23-U	Bedroom	0.8			
		W24-L	Bedroom	0.2			
		W24-U	Bedroom	1.4			
Block F							
Ground	R1	W1-L	LKD	0.2	1.0	N/A	N/A
		W1-U	LKD	0.5			
		W2-L	LKD	0.1			
		W2-U	LKD	0.2			
Ground	R2	W3-L	LKD	0.2	0.8	N/A	N/A
		W3-U	LKD	0.4			
		W4-L	LKD	0.1			
		W4-U	LKD	0.2			
Ground	R3	W5-L	LKD	0.2	0.8	N/A	N/A
		W5-U	LKD	0.3			
		W6-L	LKD	0.1			
		W6-U	LKD	0.2			
Ground	R4	W7-L	LKD	0.2	0.7	N/A	N/A
		W7-U	LKD	0.3			
		W8-L	LKD	0.1			
		W8-U	LKD	0.1			
Ground	R5	W9-L	LKD	0.1	6.2	77	25
		W9-U	LKD	1.3			
		W10-L	LKD	0.1			
		W10-U	LKD	1.3			
		W11-L	LKD	0.2			
		W11-U	LKD	1.2			
		W12-L	LKD	0.1			
		W12-U	LKD	1.9			
Ground	R6	W13-L	LKD	0.1	4.2	38	11
		W13-U	LKD	0.9			
		W14-L	LKD	0.1			
		W14-U	LKD	1.5			
		W15-L	LKD	0.1			
		W15-U	LKD	1.4			
Ground	R7	W16-L	LKD	0.1	2.2	26	6
		W16-U	LKD	1.3			
		W17-L	LKD	0.1			
		W17-U	LKD	0.7			
Ground	R8	W18-L	LKD	0.1	2.8	24	4
		W18-U	LKD	1.6			
		W19-L	LKD	0.2			
		W19-U	LKD	0.9			
Ground	R9	W20-L	LKD	0.1	2.8	24	4
		W20-U	LKD	1.6			
		W21-L	LKD	0.2			
		W21-U	LKD	1.0			
Ground	R10	W22-L	LKD	0.1	2.6	24	4
		W22-U	LKD	1.5			
		W23-L	LKD	0.1			
		W23-U	LKD	0.8			
First	R1	W1-L	Bedroom	0.2			
		W1-U	Bedroom	0.9			
		W2-L	Bedroom	0.2			

Floor	Room ID	Window ID	Room Use	ADF	TOTAL	ROOM TOTAL	ROOM WINTER
					ADF	APSH	APSH
		W2-U	Bedroom	0.6	2.0	N/A	N/A
First	R2	W3-L	Bedroom	0.2			
		W3-U	Bedroom	0.5			
		W4-L	Bedroom	0.2			
		W4-U	Bedroom	0.8	1.6	N/A	N/A
First	R3	W5-L	Bedroom	0.3			
		W5-U	Bedroom	1.4	1.7	N/A	N/A
First	R4	W6-L	Bedroom	0.3			
		W6-U	Bedroom	1.5	1.8	N/A	N/A
First	R5	W7-L	Bedroom	0.2			
		W7-U	Bedroom	0.9	1.1	N/A	N/A
First	R6	W8-L	Bedroom	0.2			
		W8-U	Bedroom	0.4			
		W9-L	Bedroom	0.2			
		W9-U	Bedroom	0.5	1.3	N/A	N/A
First	R7	W10-L	Bedroom	0.2			
		W10-U	Bedroom	1.2			
		W11-L	Bedroom	0.2			
		W11-U	Bedroom	0.8	2.4	N/A	N/A
First	R8	W12-L	Bedroom	0.2			
		W12-U	Bedroom	0.4	0.5	N/A	N/A
First	R9	W13-L	LKD	0.2			
		W13-U	LKD	0.5	0.7	N/A	N/A
First	R10	W14-L	Bedroom	0.0			
		W14-U	Bedroom	0.4	0.4	N/A	N/A
First	R11	W15-L	LKD	0.1			
		W15-U	LKD	0.3			
		W16-L	LKD	0.1			
		W16-U	LKD	0.3	0.8	N/A	N/A
First	R12	W17-L	Bedroom	0.0			
		W17-U	Bedroom	1.3	1.3	N/A	N/A
First	R13	W18-L	LKD	0.2			
		W18-U	LKD	0.8			
		W19-L	LKD	0.0			
		W19-U	LKD	0.5			
		W20-L	LKD	0.2			
		W20-U	LKD	0.8			
		W21-L	LKD	0.2			
		W21-U	LKD	0.8	3.6	26	19
First	R14	W22-L	Bedroom	0.4			
		W22-U	Bedroom	1.3	1.7	19	19
First	R15	W23-L	Bedroom	0.4			
		W23-U	Bedroom	1.4			
		W24-L	Bedroom	0.4			
		W24-U	Bedroom	1.4			
		W25-L	Bedroom	0.7			
		W25-U	Bedroom	2.7	7.0	40	24
First	R16	W26-L	Bedroom	0.5			
		W26-U	Bedroom	1.7	2.2	14	7
First	R17	W27-L	Bedroom	0.9			
		W27-U	Bedroom	3.1	4.0	25	7

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL AP SH	ROOM WINTER AP SH
First	R18	W28-L	Bedroom	0.5			
		W28-U	Bedroom	1.6	2.1	14	7
First	R19	W29-L	Bedroom	0.3			
		W29-U	Bedroom	1.7	2.0	24	3
First	R20	W30-L	Bedroom	0.6			
		W30-U	Bedroom	3.0	3.6	31	6
First	R21	W31-L	Bedroom	0.4			
		W31-U	Bedroom	1.3	1.7	12	3
First	R22	W32-L	Bedroom	0.4			
		W32-U	Bedroom	1.6	2.0	12	3
First	R23	W33-L	Bedroom	0.3			
		W33-U	Bedroom	1.7	2.0	28	5
First	R24	W34-L	Bedroom	0.4			
		W34-U	Bedroom	1.5	1.9	25	4
First	R25	W35-L	Bedroom	0.4			
		W35-U	Bedroom	1.3	1.6	12	3
First	R26	W36-L	Bedroom	0.4			
		W36-U	Bedroom	1.7	2.1	25	3
First	R27	W37-L	Bedroom	0.3			
		W37-U	Bedroom	0.9	1.1	12	3
First	R28	W27-L	Bedroom	0.4			
		W27-U	Bedroom	1.8	2.2	25	7
Block G							
Ground	R1	W1-L	LKD	0.2			
		W1-U	LKD	1.0			
		W2-L	LKD	0.2			
		W2-U	LKD	1.0			
		W21-L	LKD	0.3			
		W21-U	LKD	1.8			
		W22-L	LKD	0.2			
		W22-U	LKD	1.0	5.8	31	6
Ground	R2	W3-L	LKD	0.1			
		W3-U	LKD	0.8			
		W4-L	LKD	0.1			
		W4-U	LKD	0.8			
		W5-L	LKD	0.1			
		W5-U	LKD	0.6			
		W6-L	LKD	0.1			
		W6-U	LKD	0.6			
Ground	R3	W7-L	LKD	0.1			
		W7-U	LKD	0.6	3.9	N/A	N/A
Ground	R3	W8-L	Living Room	0.2			
		W8-U	Living Room	0.8			
		W9-L	Living Room	0.2			
		W9-U	Living Room	0.8			
		W10-L	Living Room	0.2			
		W10-U	Living Room	0.8	3.0	N/A	N/A
Ground	R4	W12-L	LKD	0.1			
		W12-U	LKD	0.4			
		W13-L	LKD	0.2			
		W13-U	LKD	0.9			

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL APSH	ROOM WINTER APSH
Ground	R5	W14-L	LKD	0.2	3.7	33	11
		W14-U	LKD	0.9			
		W15-L	LKD	0.2			
		W15-U	LKD	0.9			
	R6	W16-L	LKD	0.2	4.1	32	7
		W16-U	LKD	0.9			
		W17-L	LKD	0.3			
		W17-U	LKD	1.6			
Ground	R6	W18-L	LKD	0.2	3.4	28	5
		W18-U	LKD	0.9			
		W19-L	LD	0.3			
		W19-U	LD	1.4			
First	R1	W20-L	LD	0.3	9.6	40	11
		W20-U	LD	1.5			
		W1-L	Bedroom	0.5			
		W1-U	Bedroom	3.1			
First	R2	W2-L	Bedroom	0.7	4.5	N/A	N/A
		W2-U	Bedroom	3.9			
		W3-L	Bedroom	0.4			
		W3-U	Bedroom	2.5			
First	R3	W4-L	Bedroom	0.5	9.5	N/A	N/A
		W4-U	Bedroom	2.6			
		W5-L	Bedroom	0.5			
		W5-U	Bedroom	2.9			
		W7-L	Bedroom	0.6			
First	R4	W7-U	Bedroom	2.2	2.8	N/A	N/A
		W9-L	Bedroom	0.4			
First	R5	W9-U	Bedroom	1.2	1.6	N/A	N/A
		W10-L	Bedroom	0.2			
First	R6	W10-U	Bedroom	0.6	0.8	N/A	N/A
		W11-L	Bedroom	0.3			
First	R7	W11-U	Bedroom	1.0	1.4	N/A	N/A
		W14-L	Bedroom	0.8			
First	R9	W14-U	Bedroom	3.6	4.5	30	10
		W16-L	Bedroom	0.7			
First	R10	W16-U	Bedroom	3.0	3.7	30	10
		W17-L	Bedroom	0.4			
First	R11	W17-U	Bedroom	1.8	2.2	25	6
		W19-L	Bedroom	0.8			
First	R12	W19-U	Bedroom	3.6	4.5	31	12
		W20-L	Bedroom	0.3			
First	R13	W20-U	Bedroom	1.5	3.7	28	9
		W21-L	Bedroom	0.3			
		W21-U	Bedroom	1.5			
		W21-L	Bedroom	0.3			
Block H Ground	R1	W2-U	LKD	0.5	0.8		
		W76-L	LKD	0.2			
		W76-U	LKD	0.8			
		W2-L	LKD	0.1			

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL AP SH	ROOM WINTER AP SH
		W77-L	LKD	0.3	4.1	39	9
		W77-U	LKD	1.4			
		W78-L	LKD	0.2			
		W78-U	LKD	0.8			
Ground	R2	W5-L	LKD	0.1	2.2	N/A	N/A
		W5-U	LKD	0.6			
		W6-L	LKD	0.1			
		W6-U	LKD	0.4			
		W7-L	LKD	0.1			
		W7-U	LKD	0.4			
		W8-L	LKD	0.1			
		W8-U	LKD	0.4			
Ground	R3	W9-L	LKD	0.1	2.9	37	6
		W9-U	LKD	0.3			
		W10-L	LKD	0.1			
		W10-U	LKD	0.3			
		W73-L	LKD	0.1			
		W73-U	LKD	0.6			
		W74-L	LKD	0.1			
		W74-U	LKD	0.6			
		W75-L	LKD	0.1			
		W75-U	LKD	0.6			
Ground	R4	W11-L	LKD	0.1	2.5	42	6
		W11-U	LKD	0.4			
		W12-L	LKD	0.1			
		W12-U	LKD	0.3			
		W13-L	LKD	0.1			
		W13-U	LKD	0.3			
		W71-L	LKD	0.1			
		W71-U	LKD	0.6			
		W72-L	LKD	0.1			
W72-U	LKD	0.6					
Ground	R5	W14-L	LKD	0.1	2.4	31	3
		W14-U	LKD	0.3			
		W15-L	LKD	0.1			
		W15-U	LKD	0.3			
		W68-L	LKD	0.1			
		W68-U	LKD	0.6			
		W69-L	LKD	0.1			
		W69-U	LKD	0.4			
W70-L	LKD	0.1					
W70-U	LKD	0.5					
Ground	R6	W65-L	LKD	0.2	3.6	36	8
		W65-U	LKD	0.8			
		W66-L	LKD	0.3			
		W66-U	LKD	1.4			
		W67-L	LKD	0.2			
		W67-U	LKD	0.8			
Ground	R7	W16-L	LKD	0.1	2.4	36	6
		W16-U	LKD	0.3			
		W62-L	LKD	0.1			
		W62-U	LKD	0.6			
		W63-L	LKD	0.1			
		W63-U	LKD	0.6			
		W64-L	LKD	0.1			
W64-U	LKD	0.6					
Ground	R8	W17-L	LKD	0.1	0.3		
		W17-U	LKD	0.3			
		W18-L	LKD	0.1			
		W18-U	LKD	0.3			

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL APSH	ROOM WINTER APSH
		W59-L	LKD	0.1			
		W59-U	LKD	0.6			
		W60-L	LKD	0.2			
		W60-U	LKD	1.0			
		W61-L	LKD	0.1			
		W61-U	LKD	0.5	3.2	36	8
Ground	R9	W19-L	LKD	0.1			
		W19-U	LKD	0.4			
		W20-L	LKD	0.1			
		W20-U	LKD	0.2			
		W57-L	LKD	0.1			
		W57-U	LKD	0.5			
		W58-L	LKD	0.1			
		W58-U	LKD	0.5	2.0	35	7
Ground	R10	W21-L	LKD	0.1			
		W21-U	LKD	0.3			
		W22-L	LKD	0.1			
		W22-U	LKD	0.3			
		W54-L	LKD	0.1			
		W54-U	LKD	0.6			
		W55-L	LKD	0.1			
		W55-U	LKD	0.6			
		W56-L	LKD	0.1			
		W56-U	LKD	0.6	2.7	36	7
Ground	R11	W23-L	LKD	0.1			
		W23-U	LKD	0.3			
		W24-L	LKD	0.1			
		W24-U	LKD	0.3			
		W25-L	LKD	0.1			
		W25-U	LKD	0.3			
		W52-L	LKD	0.1			
		W52-U	LKD	0.6			
		W53-L	LKD	0.1			
		W53-U	LKD	0.5	2.4	39	8
Ground	R12	W26-L	LKD	0.1			
		W26-U	LKD	0.3			
		W27-L	LKD	0.1			
		W27-U	LKD	0.3			
		W49-L	LKD	0.1			
		W49-U	LKD	0.6			
		W50-L	LKD	0.2			
		W50-U	LKD	1.0			
		W51-L	LKD	0.1			
		W51-U	LKD	0.6	3.2	41	9
Ground	R13	W46-L	LKD	0.2			
		W46-U	LKD	0.8			
		W47-L	LKD	0.3			
		W47-U	LKD	1.4			
		W48-L	LKD	0.2			
		W48-U	LKD	0.8	3.5	32	6
Ground	R14	W29-L	LKD	0.1			
		W29-U	LKD	0.4			
		W43-L	LKD	0.1			
		W43-U	LKD	0.6			
		W44-L	LKD	0.1			
		W44-U	LKD	0.6			
		W45-L	LKD	0.1			
		W45-U	LKD	0.6	2.5	49	8
Ground	R15	W30-L	LKD	0.1			
		W30-U	LKD	0.4			

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL APSH	ROOM WINTER APSH
Ground	R16	W31-L	LKD	0.1	2.9	53	10
		W31-U	LKD	0.4			
		W41-L	LKD	0.2			
		W41-U	LKD	1.0			
		W42-L	LKD	0.1			
		W42-U	LKD	0.6			
	W32-L	LKD	0.1	7.6	86	23	
	W32-U	LKD	0.5				
	W33-L	LKD	0.1				
	W33-U	LKD	0.5				
	W34-L	LKD	0.1				
	W34-U	LKD	0.7				
	W35-L	LKD	0.1				
	W35-U	LKD	0.7				
	W36-L	LKD	0.2				
	W36-U	LKD	1.1				
	W37-L	LKD	0.2				
	W37-U	LKD	1.1				
	W38-L	LKD	0.1				
	W38-U	LKD	0.6				
W39-L	LKD	0.1					
W39-U	LKD	0.6					
W40-L	LKD	0.1					
W40-U	LKD	0.6					
First	R1	W78-L	Bedroom	0.8	3.5	31	11
		W78-U	Bedroom	2.7			
First	R2	W2-L	Bedroom	0.4	1.7	N/A	N/A
		W2-U	Bedroom	1.3			
First	R3	W4-L	Bedroom	0.2	1.2	N/A	N/A
		W4-U	Bedroom	0.6			
		W5-L	Bedroom	0.1			
		W5-U	Bedroom	0.2			
First	R4	W7-L	Bedroom	0.3	0.5	N/A	N/A
		W7-U	Bedroom	0.2			
First	R5	W8-L	Bedroom	0.2	1.1	N/A	N/A
		W8-U	Bedroom	0.4			
		W9-L	Bedroom	0.2			
		W9-U	Bedroom	0.3			
First	R6	W10-L	Bedroom	0.2	0.4	N/A	N/A
		W10-U	Bedroom	0.2			
First	R7	W12-L	Bedroom	0.3	1.0	N/A	N/A
		W12-U	Bedroom	0.7			
First	R8	W13-L	Bedroom	0.1	0.4	N/A	N/A
		W13-U	Bedroom	0.1			
		W14-L	Bedroom	0.1			
		W14-U	Bedroom	0.1			
First	R9	W15-L	Bedroom	0.2	0.4	N/A	N/A
		W15-U	Bedroom	0.2			
First	R10	W17-L	Bedroom	0.3	0.6	N/A	N/A
		W17-U	Bedroom	0.3			
First	R11	W18-L	Bedroom	0.2	1.0	N/A	N/A
		W18-U	Bedroom	0.3			
		W19-L	Bedroom	0.2			
		W19-U	Bedroom	0.3			

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL AP SH	ROOM WINTER AP SH
First	R12	W20-L	Bedroom	0.2	0.5	N/A	N/A
		W20-U	Bedroom	0.4			
First	R13	W21-L	Bedroom	0.1	0.3	N/A	N/A
		W21-U	Bedroom	0.2			
First	R14	W22-L	Bedroom	0.1	0.9	N/A	N/A
		W22-U	Bedroom	0.3			
		W23-L	Bedroom	0.2			
		W23-U	Bedroom	0.3			
First	R15	W24-L	Bedroom	0.2	1.0	N/A	N/A
		W24-U	Bedroom	0.3			
		W25-L	Bedroom	0.2			
		W25-U	Bedroom	0.3			
First	R16	W26-L	Bedroom	0.3	0.9	N/A	N/A
		W26-U	Bedroom	0.6			
First	R17	W27-L	Bedroom	0.2	1.1	N/A	N/A
		W27-U	Bedroom	0.4			
		W28-L	Bedroom	0.1			
		W28-U	Bedroom	0.5			
First	R18	W30-L	Bedroom	0.4	1.9	N/A	N/A
		W30-U	Bedroom	1.5			
First	R19	W31-L	Bedroom	0.3	2.3	N/A	N/A
		W31-U	Bedroom	0.9			
		W32-L	Bedroom	0.3			
		W32-U	Bedroom	0.8			
First	R20	W33-L	Bedroom	0.2	3.4	41	22
		W33-U	Bedroom	0.6			
		W34-L	Bedroom	0.2			
		W34-U	Bedroom	0.6			
		W35-L	Bedroom	0.4			
		W35-U	Bedroom	1.3			
First	R21	W37-L	Bedroom	0.8	3.8	37	21
		W37-U	Bedroom	3.0			
First	R22	W38-L	Bedroom	0.4	5.0	56	24
		W38-U	Bedroom	1.3			
		W39-L	Bedroom	0.4			
		W39-U	Bedroom	1.3			
		W40-L	Bedroom	0.4			
		W40-U	Bedroom	1.3			
First	R23	W41-L	Bedroom	0.7	3.2	26	7
		W41-U	Bedroom	2.5			
First	R24	W42-L	Bedroom	0.4	1.8	24	6
		W42-U	Bedroom	1.4			
First	R25	W43-L	Bedroom	0.4	1.8	23	4
		W43-U	Bedroom	1.4			
First	R26	W44-L	Bedroom	0.4	3.8	24	5
		W44-U	Bedroom	1.5			
		W45-L	Bedroom	0.4			
		W45-U	Bedroom	1.5			
First	R27	W46-L	Bedroom	0.5	2.2	24	6
		W46-U	Bedroom	1.8			
First	R28	W47-L	Bedroom	0.5			

Floor	Room ID	Window ID	Room Use	ADF	TOTAL	ROOM TOTAL	ROOM WINTER
				ADF	ADF	APSH	APSH
		W47-U	Bedroom	1.8	2.4	26	7
First	R29	W50-L	Bedroom	0.7			
		W50-U	Bedroom	2.5	3.2	27	8
First	R30	W50-L	Bedroom	0.7			
		W50-U	Bedroom	2.4			
		W51-L	Bedroom	0.4			
		W51-U	Bedroom	1.4	4.8	27	8
First	R31	W52-L	Bedroom	0.3			
		W52-U	Bedroom	1.1			
		W53-L	Bedroom	0.3			
		W53-U	Bedroom	1.1	2.7	27	8
First	R32	W54-L	Bedroom	0.7			
		W54-U	Bedroom	2.5	3.2	28	10
First	R33	W56-L	Bedroom	0.7			
		W56-U	Bedroom	2.4	3.1	28	10
First	R34	W57-L	Bedroom	0.3			
		W57-U	Bedroom	1.1			
		W58-L	Bedroom	0.3			
		W58-U	Bedroom	1.1	2.8	25	7
First	R35	W59-L	Bedroom	0.7			
		W59-U	Bedroom	2.5	3.2	28	10
First	R36	W61-L	Bedroom	0.4			
		W61-U	Bedroom	1.4	1.8	24	7
First	R37	W62-L	Bedroom	0.4			
		W62-U	Bedroom	1.4	1.8	24	5
First	R38	W63-L	Bedroom	0.4			
		W63-U	Bedroom	1.5			
		W64-L	Bedroom	0.4			
		W64-U	Bedroom	1.5	3.9	27	8
First	R39	W65-L	Bedroom	0.8			
		W65-U	Bedroom	2.9	3.7	29	10
First	R40	W66-L	Bedroom	0.5			
		W66-U	Bedroom	1.9			
		W67-L	Bedroom	0.3			
		W67-U	Bedroom	1.1	3.9	30	10
First	R41	W69-L	Bedroom	0.7			
		W69-U	Bedroom	2.6	3.4	29	10
First	R42	W70-L	Bedroom	0.4			
		W70-U	Bedroom	1.5	1.9	27	8
First	R43	W71-L	Bedroom	0.3			
		W71-U	Bedroom	1.2			
		W72-L	Bedroom	0.3			
		W72-U	Bedroom	1.2	3.0	28	8
First	R44	W73-L	Bedroom	0.8			
		W73-U	Bedroom	2.7	3.5	30	10
First	R45	W75-L	Bedroom	0.4			
		W75-U	Bedroom	1.5	1.9	26	6
First	R46	W76-L	Bedroom	0.8			
		W76-U	Bedroom	2.9	3.7	30	10

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL APSH	ROOM WINTER APSH
First	R47	W6-L	Bedroom	0.1	0.3	N/A	N/A
		W6-U	Bedroom	0.2			
First	R48	W29-L	Bedroom	0.2	0.8	N/A	N/A
		W29-U	Bedroom	0.6			
Block J							
First	R1	W1-L	Bedroom	0.5	2.9	N/A	N/A
		W1-U	Bedroom	2.4			
First	R2	W2-L	Bedroom	0.6	3.8	N/A	N/A
		W2-U	Bedroom	3.2			
First	R3	W3-L	Bedroom	0.7	3.0	N/A	N/A
		W3-U	Bedroom	2.3			
First	R4	W4-L	Bedroom	0.6	4.4	N/A	N/A
		W4-U	Bedroom	3.8			
First	R5	W5-L	LKD	0.4	3.1	N/A	N/A
		W5-U	LKD	2.7			
First	R6	W6-L	Bedroom	1.0	6.1	N/A	N/A
		W6-U	Bedroom	5.1			
First	R7	W7-L	Bedroom	0.4	10.0	N/A	N/A
		W7-U	Bedroom	1.9			
		W8-L	Bedroom	0.7			
		W8-U	Bedroom	3.8			
		W9-L	Bedroom	0.5			
		W9-U	Bedroom	2.6			
First	R8	W10-L	LKD	0.2	3.9	N/A	N/A
		W10-U	LKD	1.1			
		W11-L	LKD	0.4			
		W11-U	LKD	2.1			
First	R9	W12-L	Bedroom	0.6	2.6	N/A	N/A
		W12-U	Bedroom	2.1			
First	R10	W13-L	LKD	0.4	3.0	N/A	N/A
		W13-U	LKD	2.6			
First	R11	W14-L	Bedroom	0.9	5.9	N/A	N/A
		W14-U	Bedroom	5.0			
First	R12	W15-L	Bedroom	0.5	2.5	N/A	N/A
		W15-U	Bedroom	2.0			
First	R13	W16-L	LKD	0.4	2.7	30	5
		W16-U	LKD	1.5			
		W17-L	LKD	0.1			
		W17-U	LKD	0.4			
		W19-L	LKD	0.1			
		W19-U	LKD	0.2			
First	R14	W20-L	LKD	0.1	0.7	7	1
		W20-U	LKD	0.3			
		W22-L	LKD	0.1			
		W22-U	LKD	0.2			
First	R15	W23-L	Bedroom	0.1	0.8	1	0
		W23-U	Bedroom	0.7			
First	R16	W24-L	Bedroom	0.3			

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL AP SH	ROOM WINTER AP SH
		W24-U	Bedroom	1.4	1.7	16	4
First	R17	W25-L	LKD	0.1			
		W25-U	LKD	0.5			
		W26-L	LKD	0.1			
		W26-U	LKD	0.3			
		W28-L	LKD	0.1			
		W28-U	LKD	0.3	1.3	5	5
Block K							
First	R1	W1-L	LKD	0.1			
		W1-U	LKD	0.2			
		W28-L	LKD	0.1			
		W28-U	LKD	0.3			
		W29-L	LKD	0.0			
		W29-U	LKD	0.0	0.7	1	0
First	R2	W3-L	Bedroom	0.1			
		W3-U	Bedroom	0.4			
		W4-L	Bedroom	0.2			
		W4-U	Bedroom	0.9			
		W5-L	Bedroom	0.2			
		W5-U	Bedroom	0.7	2.6	N/A	N/A
First	R3	W6-L	Bedroom	0.3			
		W6-U	Bedroom	0.8			
		W7-L	Bedroom	0.3			
		W7-U	Bedroom	0.9	2.3	N/A	N/A
First	R4	W8-L	LKD	0.2			
		W8-U	LKD	0.6			
		W9-L	LKD	0.2			
		W9-U	LKD	0.6	1.5	N/A	N/A
First	R5	W10-L	Bedroom	0.3			
		W10-U	Bedroom	0.7			
		W11-L	Bedroom	0.2			
		W11-U	Bedroom	0.7	1.9	N/A	N/A
First	R6	W11-L	Bedroom	0.2			
		W11-U	Bedroom	0.7			
		W12-L	Bedroom	0.2			
		W12-U	Bedroom	0.7			
		W13-L	Bedroom	0.2			
		W13-U	Bedroom	0.7	2.8	N/A	N/A
First	R7	W14-L	LKD	0.2			
		W14-U	LKD	0.6			
		W15-L	LKD	0.2			
		W15-U	LKD	0.5			
		W16-L	LKD	0.2			
		W16-U	LKD	0.5	2.1	N/A	N/A
First	R8	W17-L	Bedroom	0.3			
		W17-U	Bedroom	1.0	1.4	N/A	N/A
First	R9	W18-L	Bedroom	0.4			
		W18-U	Bedroom	1.2	1.6	N/A	N/A
First	R10	W19-L	LKD	0.1			
		W19-U	LKD	0.2			
		W20-L	LKD	0.0			
		W20-U	LKD	0.2	0.5	3	1
First	R11	W21-L	LKD	0.1			
		W21-U	LKD	0.4			

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL AP SH	ROOM WINTER AP SH
		W22-L	LKD	0.0			
		W22-U	LKD	0.4	1.0	9	3
First	R12	W23-L	Bedroom	0.2			
		W23-U	Bedroom	2.0	2.2	5	0
First	R13	W24-L	Bedroom	0.1			
		W24-U	Bedroom	0.3	0.3	1	0
First	R14	W25-L	Bedroom	0.1			
		W25-U	Bedroom	0.3	0.4	0	0
First	R15	W26-L	LKD	0.0			
		W26-U	LKD	0.4			
		W27-L	LKD	0.1			
		W27-U	LKD	0.5	1.1	2	0
Block L							
First	R1	W1-L	LKD	0.1			
		W1-U	LKD	0.5			
		W2-L	LKD	0.2			
		W2-U	LKD	0.7	1.5	N/A	N/A
First	R2	W4-L	Bedroom	0.6			
		W4-U	Bedroom	2.5			
		W3-L	Bedroom	0.5			
		W3-U	Bedroom	2.3	5.9	N/A	N/A
First	R3	W5-L	Bedroom	0.5			
		W5-U	Bedroom	2.1			
		W6-L	Bedroom	0.4			
		W6-U	Bedroom	2.0	5.0	N/A	N/A
First	R4	W7-L	LKD	0.2			
		W7-U	LKD	0.7			
		W8-L	LKD	0.2			
		W8-U	LKD	0.7			
		W9-L	LKD	0.2			
		W9-U	LKD	1.1	3.1	N/A	N/A
First	R5	W10-L	Bedroom	0.5			
		W10-U	Bedroom	2.2	2.7	N/A	N/A
First	R6	W12-L	Bedroom	0.4			
		W12-U	Bedroom	2.0			
		W11-L	Bedroom	0.4			
		W11-U	Bedroom	2.0	4.8	N/A	N/A
First	R7	W13-L	Bedroom	0.5			
		W13-U	Bedroom	2.1			
		W14-L	Bedroom	0.4			
		W14-U	Bedroom	2.0	5.0	N/A	N/A
First	R8	W15-L	LKD	0.2			
		W15-U	LKD	1.0	1.2	N/A	N/A
First	R9	W16-L	Bedroom	0.4			
		W16-U	Bedroom	1.3			
		W17-L	Bedroom	0.4			
		W17-U	Bedroom	2.0	4.1	N/A	N/A
First	R10	W18-L	Bedroom	0.5			
		W18-U	Bedroom	2.5	3.0	N/A	N/A
First	R11	W19-L	LKD	0.3			
		W19-U	LKD	1.4			

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL APSH	ROOM WINTER APSH
		W20-L	LKD	0.0			
		W20-U	LKD	0.1			
		W21-L	LKD	0.0			
		W21-U	LKD	0.0			
		W22-L	LKD	0.0			
		W22-U	LKD	0.0	2.0	16	0
First	R12	W23-L	LKD	0.0			
		W23-U	LKD	0.0			
		W25-L	LKD	0.1			
		W25-U	LKD	0.4			
		W26-L	LKD	0.1			
		W26-U	LKD	0.4	1.0	0	0
First	R13	W27-L	Bedroom	0.1			
		W27-U	Bedroom	0.6	0.8	2	2
First	R14	W28-L	Bedroom	0.1			
		W28-U	Bedroom	0.4	0.5	1	1
First	R15	W30-L	LKD	0.0			
		W30-U	LKD	0.2			
		W31-L	LKD	0.0			
		W31-U	LKD	0.3	0.5	2	0
First	R16	W32-L	LKD	0.0			
		W32-U	LKD	0.3			
		W33-L	LKD	0.0			
		W33-U	LKD	0.4			
		W34-L	LKD	0.1			
		W34-U	LKD	0.4	1.3	6	1
First	R17	W35-L	Bedroom	0.2			
		W35-U	Bedroom	1.2	1.4	5	2
First	R18	W36-L	Bedroom	0.1			
		W36-U	Bedroom	0.8	0.9	3	2
First	R19	W37-L	LKD	0.1			
		W37-U	LKD	0.4			
		W38-L	LKD	0.0			
		W38-U	LKD	0.4	0.9	4	2
Block M							
First	R1	W1-L	LKD	0.2			
		W1-U	LKD	1.0			
		W2-L	LKD	0.2			
		W2-U	LKD	1.0			
		W3-L	LKD	0.3			
		W3-U	LKD	1.5			
		W31-L	LKD	0.4			
		W31-U	LKD	1.8	6.4	36	9
First	R2	W4-L	LKD	0.3			
		W4-U	LKD	1.4			
		W5-L	LKD	0.2			
		W5-U	LKD	1.0			
		W6-L	LKD	0.2			
		W6-U	LKD	1.0			
		W7-L	LKD	0.3			
		W7-U	LKD	1.4			
		W8-L	LKD	0.1			
		W8-U	LKD	0.5	6.6	N/A	N/A
First	R3	W9-L	Bedroom	0.2			
		W9-U	Bedroom	1.0	1.2	N/A	N/A

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL AP SH	ROOM WINTER AP SH
First	R4	W10-L	LKD	0.1	0.7	N/A	N/A
		W10-U	LKD	0.2			
		W11-L	LKD	0.1			
		W11-U	LKD	0.3			
First	R5	W12-L	Bedroom	0.3	1.7	N/A	N/A
		W12-U	Bedroom	1.4			
First	R6	W13-L	LKD	0.1	0.7	N/A	N/A
		W13-U	LKD	0.2			
		W14-L	LKD	0.1			
		W14-U	LKD	0.3			
First	R7	W15-L	Bedroom	0.3	1.9	N/A	N/A
		W15-U	Bedroom	1.5			
First	R8	W16-L	LKD	0.1	0.8	N/A	N/A
		W16-U	LKD	0.5			
		W17-L	LKD	0.1			
		W17-U	LKD	0.1			
First	R9	W18-L	Bedroom	0.4	4.7	32	7
		W18-U	Bedroom	1.9			
		W19-L	Bedroom	0.4			
		W19-U	Bedroom	2.0			
First	R10	W20-L	Bedroom	0.5	5.0	32	7
		W20-U	Bedroom	2.0			
		W21-L	Bedroom	0.5			
		W21-U	Bedroom	2.0			
First	R11	W22-L	LKD	0.5	1.9	13	5
		W22-U	LKD	1.5			
First	R12	W23-L	Bedroom	0.4	4.6	32	7
		W23-U	Bedroom	1.9			
		W24-L	Bedroom	0.4			
		W24-U	Bedroom	1.9			
First	R13	W25-L	Bedroom	0.6	3.1	33	7
		W25-U	Bedroom	2.5			
First	R14	W26-L	Bedroom	0.5	5.7	32	7
		W26-U	Bedroom	2.3			
		W27-L	Bedroom	0.5			
		W27-U	Bedroom	2.3			
First	R15	W28-L	LKD	0.6	2.3	14	5
		W28-U	LKD	1.7			
First	R16	W29-L	Bedroom	0.7	8.0	36	9
		W29-U	Bedroom	3.3			
		W30-L	Bedroom	0.7			
		W30-U	Bedroom	3.3			
Block N							
First	R1	W1-L	Bedroom	0.1	2.2	N/A	N/A
		W1-U	Bedroom	0.4			
		W2-L	Bedroom	0.3			
		W2-U	Bedroom	1.4			
First	R2	W3-L	Bedroom	0.3	1.7	N/A	N/A
		W3-U	Bedroom	1.4			
First	R3	W4-L	LKD	0.1			

Floor	Room ID	Window ID	Room Use	ADF	TOTAL ADF	ROOM TOTAL AP SH	ROOM WINTER AP SH
		W4-U	LKD	0.3			
		W5-L	LKD	0.1			
		W5-U	LKD	0.2	0.6	N/A	N/A
First	R4	W6-L	Bedroom	0.4			
		W6-U	Bedroom	1.8	2.2	N/A	N/A
First	R5	W7-L	Bedroom	0.3			
		W7-U	Bedroom	1.4	1.7	N/A	N/A
First	R6	W8-L	LKD	0.1			
		W8-U	LKD	0.5			
		W9-L	LKD	0.1			
		W9-U	LKD	0.4			
		W10-L	LKD	0.1			
		W10-U	LKD	0.6			
		W11-L	LKD	0.3			
		W11-U	LKD	1.2	3.3	18	5
First	R7	W12-L	Bedroom	0.2			
		W12-U	Bedroom	0.9			
		W13-L	Bedroom	0.2			
		W13-U	Bedroom	1.0	2.3	10	2
First	R8	W14-L	Bedroom	0.2			
		W14-U	Bedroom	0.9	1.1	10	3
First	R9	W15-L	LKD	0.1			
		W15-U	LKD	0.6			
		W16-L	LKD	0.3			
		W16-U	LKD	1.0			
		W17-L	LKD	0.3			
		W17-U	LKD	0.9			
		W18-L	LKD	0.3			
		W18-U	LKD	1.2			
		W19-L	LKD	0.3			
		W19-U	LKD	1.2	6.2	47	15
First	R10	W20-L	Bedroom	0.5			
		W20-U	Bedroom	2.2			
		W21-L	Bedroom	0.5			
		W21-U	Bedroom	2.2	5.5	32	7
First	R11	W22-L	LKD	0.6			
		W22-U	LKD	1.8	2.4	13	3
First	R12	W23-L	Bedroom	0.5			
		W23-U	Bedroom	2.0			
		W24-L	Bedroom	0.5			
		W24-U	Bedroom	2.0	5.0	32	7
First	R13	W25-L	LKD	0.5			
		W25-U	LKD	1.5	2.0	12	3
First	R14	W26-L	Bedroom	0.6			
		W26-U	Bedroom	2.6			
		W27-L	Bedroom	0.6			
		W27-U	Bedroom	2.6	6.3	32	7
First	R15	W28-L	Bedroom	0.4			
		W28-U	Bedroom	1.9			
		W29-L	Bedroom	0.4			
		W29-U	Bedroom	1.8	4.5	32	7
First	R16	W30-L	LKD	0.6			
		W30-U	LKD	2.0	2.6	14	6