

Fourth Floor

Sources:
Haus
Proposed info (received 12/10/21)
210012_HAUS_PR_XX_M3_A_Building Model_P08 - 3D
View - (3D)

Key:

Project: **Minerva Street
Glasgow**

Drawing Title: **Internal BRE Results
As Proposed (Scheme received 12/10/21)**



7 Oasis Park,
Eynsham, Oxford,
OX29 4TP

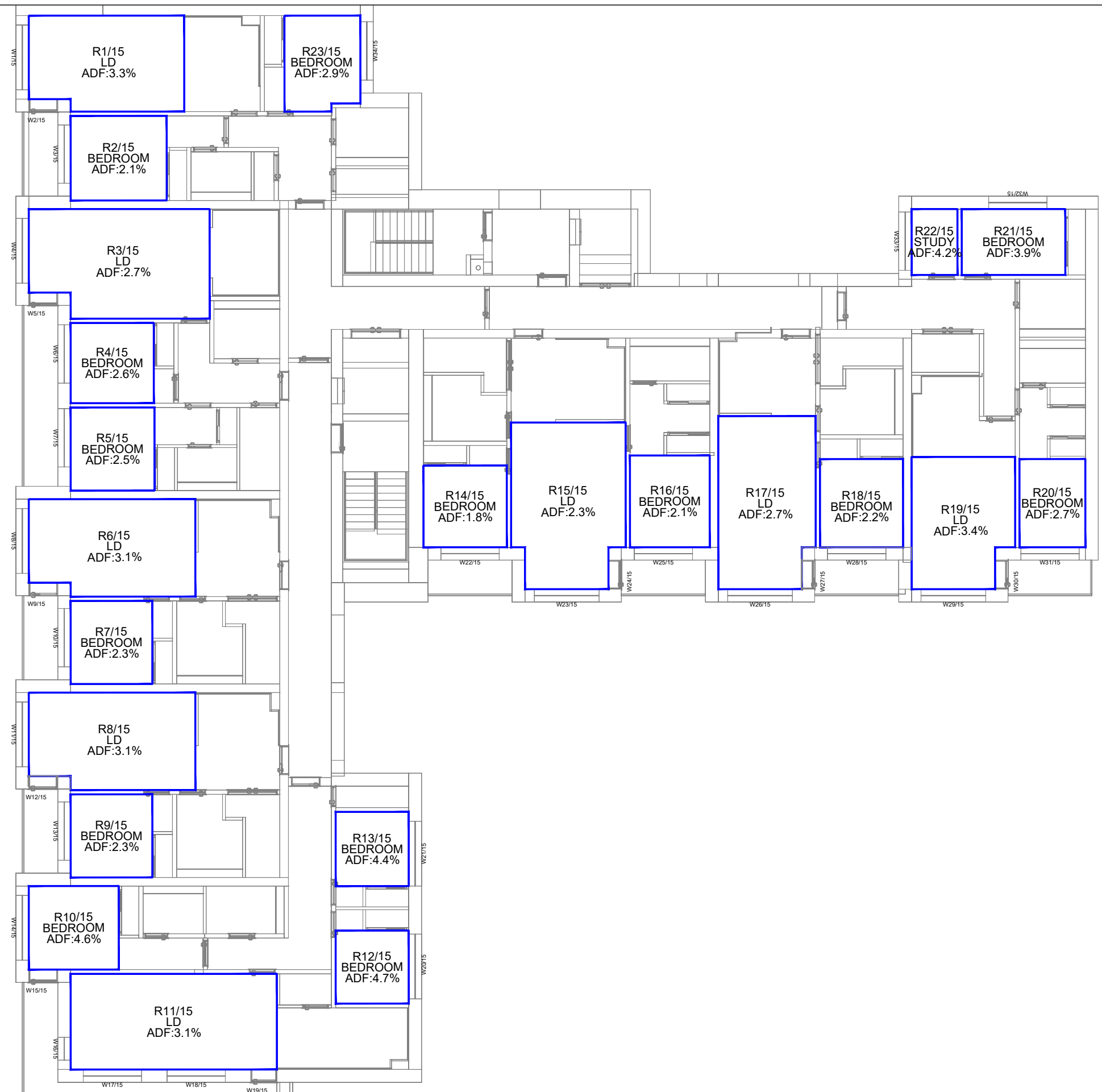
t: 01865 881882
f: 01865 881891
@: www.waterslade.com

Drawn By: **SM**

Date: **Oct 21**

Scale: **1:150 @ A3**

Drawing No: **W1296_ADF_05**



Fifth Floor

Sources:
 Haus
 Proposed info (received 12/10/21)
 210012_HAUS_PR_XX_M3_A_Building Model_P08 - 3D
 View - (3D)

Key:

Project: **Minerva Street
 Glasgow**

Drawing Title: **Internal BRE Results
 As Proposed (Scheme received 12/10/21)**

Drawn By: **SM**

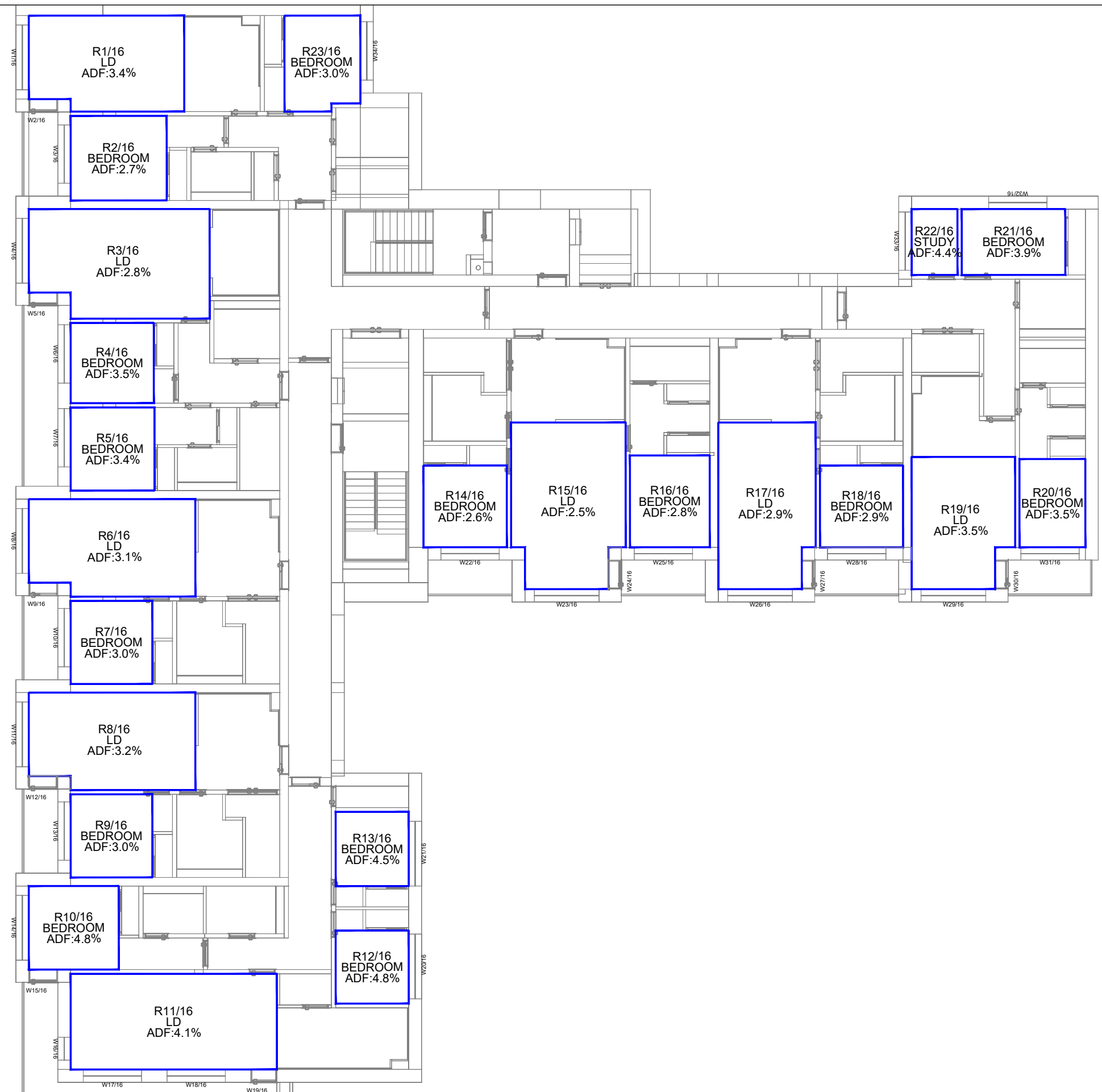
Date: **Oct 21**

Scale: **1:150 @ A3**

Drawing No: **W1296_ADF_06**



7 Oasis Park,
 Eynsham, Oxford,
 OX29 4TP
 t: 01865 881882
 f: 01865 881891
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Sixth Floor

Sources:
Haus
Proposed info (received 12/10/21)
210012_HAUS_PR_XX_M3_A_Building Model_P08 - 3D
View - (3D)

Key:

Project: **Minerva Street
Glasgow**

Drawing Title: **Internal BRE Results
As Proposed (Scheme received 12/10/21)**



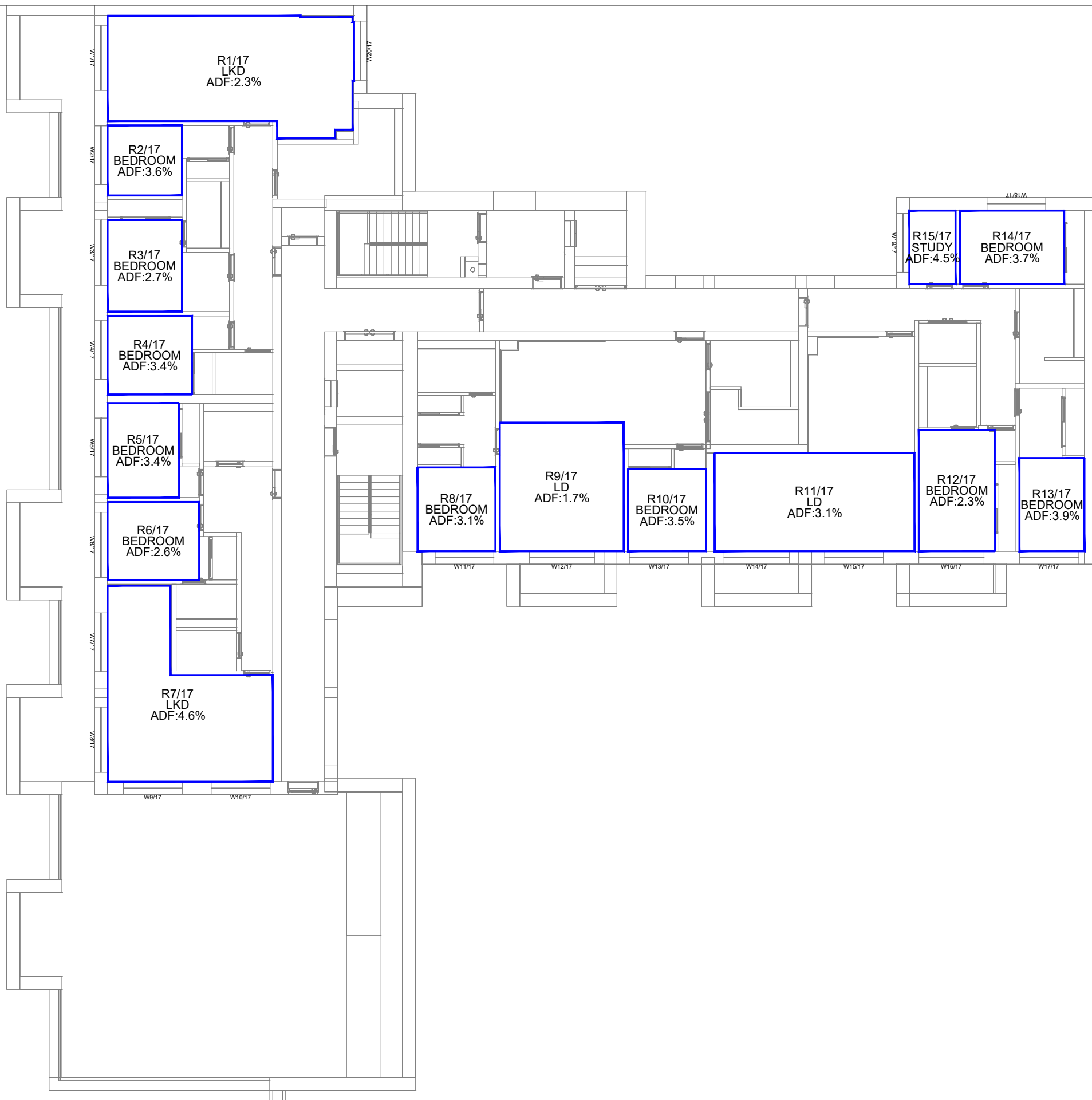
7 Oasis Park,
Eynsham, Oxford,
OX29 4TP
t: 01865 881882
f: 01865 881891
@: www.waterslade.com

Drawn By: **SM**


Date: **Oct 21**

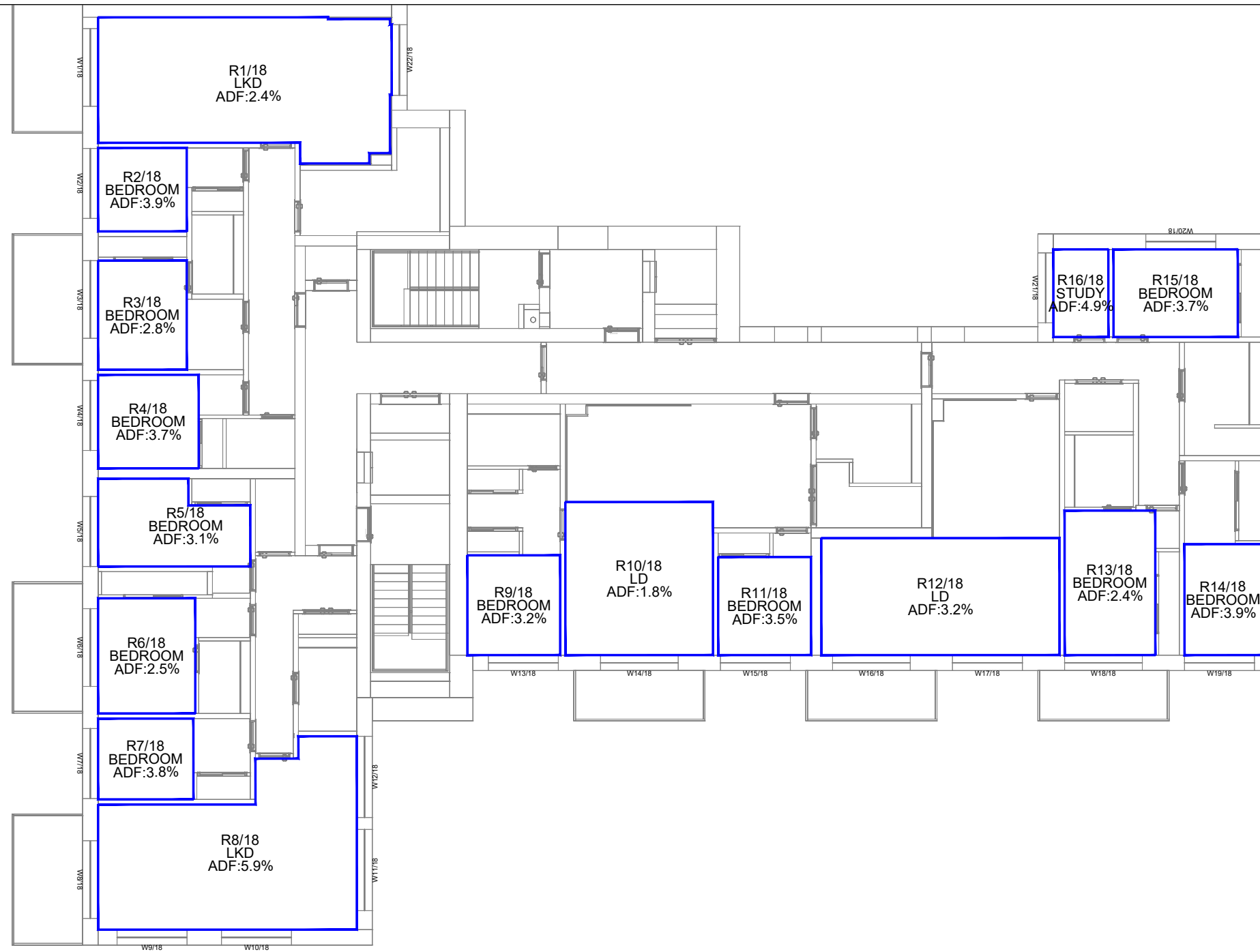
Scale: **1:150 @ A3**

Drawing No: **W1296_ADF_07**



Seventh Floor

<p>Sources: Haus Proposed info (received 12/10/21) 210012_HAUS_PR_XX_M3_A_Building Model_P08 - 3D View - (3D)</p>	<p>Key:</p>	<p>Project: Minerva Street Glasgow</p>	<p>Drawing Title: Internal BRE Results As Proposed (Scheme received 12/10/21)</p>	 <p>7 Oasis Park, Eynsham, Oxford, OX29 4TP</p> <p>t: 01865 881882 f: 01865 881891 @: www.waterslade.com</p>	
		<p>Drawn By: SM</p>	<p>Date: Oct 21</p>		<p>Scale: 1:150 @ A3</p>



Eighth Floor

Sources:
Haus
Proposed info (received 12/10/21)
210012_HAUS_PR_XX_M3_A_Building Model_P08 - 3D
View - (3D)

Key:

Project: **Minerva Street
Glasgow**

Drawing Title: **Internal BRE Results
As Proposed (Scheme received 12/10/21)**

Drawn By: **SM**

Date: **Oct 21**

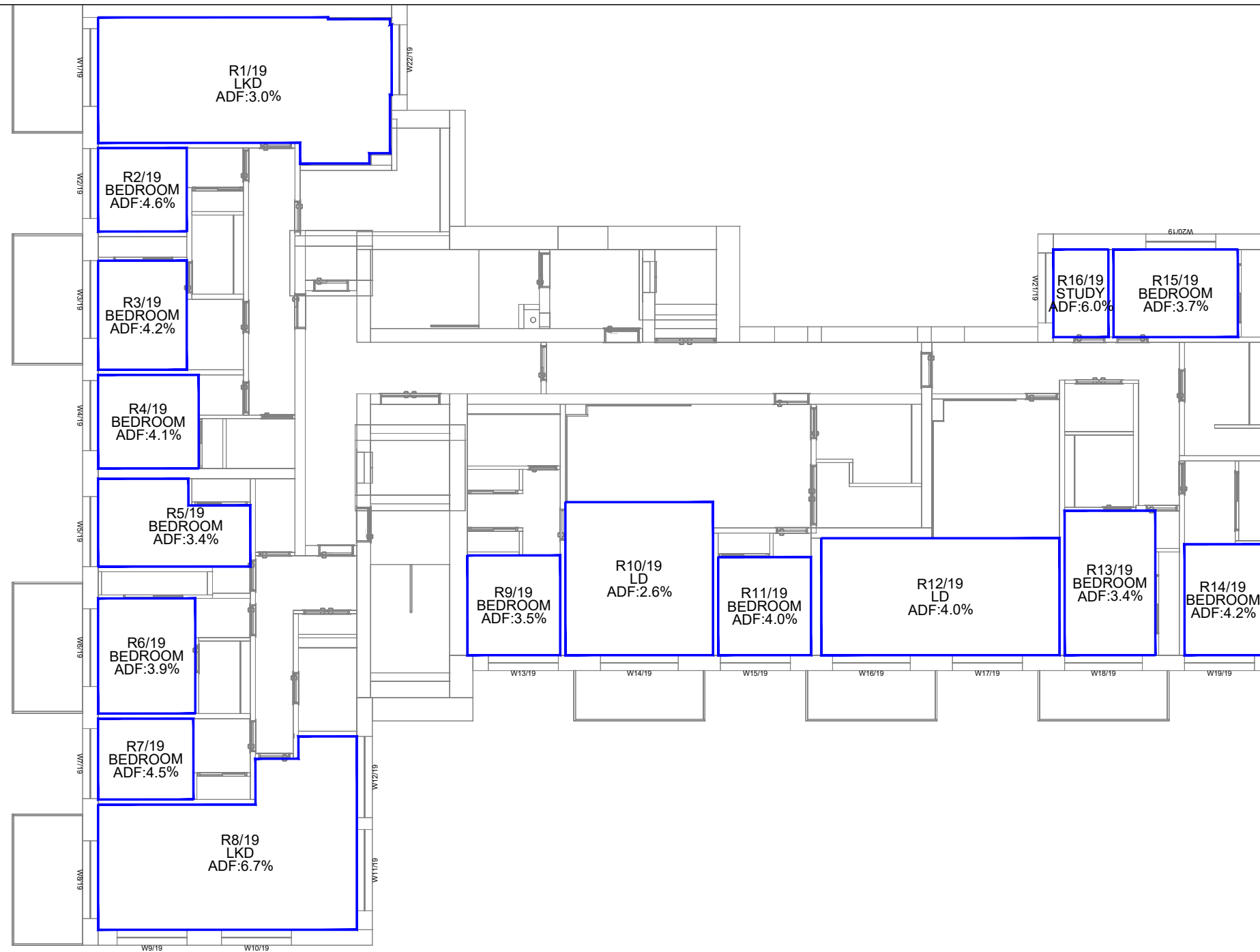
Scale: **1:150 @ A3**

Drawing No: **W1296_ADF_09**



7 Oasis Park,
Eynsham, Oxford,
OX29 4TP

t: 01865 881882
f: 01865 881891
@: www.waterslade.com



Ninth Floor

Sources:
Haus
Proposed info (received 12/10/21)
210012_HAUS_PR_XX_M3_A_Building Model_P08 - 3D
View - (3D)

Key:

Project: **Minerva Street
Glasgow**

Drawing Title: **Internal BRE Results
As Proposed (Scheme received 12/10/21)**

Drawn By: **SM**

Date: **Oct 21**

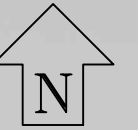
Scale: **1:150 @ A3**

Drawing No: **W1296_ADF_10**




7 Oasis Park,
Eynsham, Oxford,
OX29 4TP

t: 01865 881882
f: 01865 881891
@: www.waterslade.com



Sources:
Haus
Proposed info (received 12/10/21)
210012_HAUS_PR_XX_M3_A_Building Model_P08 - 3D
View - (3D)

Key:	 Area analysed
	 Area with more than 2 hours of direct sunlight
	 Area with less than 2 hours of direct sunlight
50%	Percentage of area with more than 2 hours of direct sunlight

Project: **Minerva Street Glasgow**

Drawn By: **SM**

Drawing Title: **BRE 2 Hour Overshadowing Assessment March 21st As Proposed (Scheme received 12/10/21)**

Date: **Oct 21**

Scale: **1:300 @ A3**

Drawing No: **W1296 S_01**



7 Oasis Park,
Eynsham, Oxford,
OX29 4TP

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f: 01865 881891
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Location			Vertical Sky Component (VSC)			Average Daylight Factor (ADF)				No-Sky Line (NSL)				Window		Annual Probable Sunlight Hours (APSH) (window)				Annual Probable Sunlight Hours (APSH) (room)									
Room	Room Use	Window	EXISTING	PROPOSED	Reduction Factor	EXISTING	PROPOSED		Reduction Factor	Whole Room	EXISTING	PROPOSED		Reduction Factor	Angle from South	Aspect	EXISTING	PROPOSED		Reduction Factor	EXISTING	PROPOSED		Reduction Factor					
			VSC	VSC		ADF	TOTAL	ADF			TOTAL	sq ft	sq ft				Winter %	Annual %	Winter %		Annual %	Existing Winter %	Proposed Winter %		Annual %	Annual %			
110 Minerva Street																													
R1/20	LKD	W1/20	30.3	29.0	0.96	0.21	0.21			371.0	301.6	299.9		0.99	13.3°W	Southerly	24	68	22		60	0.88							
R1/20	LKD	W2/20	31.8	30.2	0.95	0.97	0.94								13.3°W	Southerly	24	71	22		60	0.85							
R1/20	LKD	W3/20	29.7	18.9	0.64	0.97	2.15	0.65	1.80						76.7°E	Southerly	14	47	12		29	0.62		24	76	22	63	0.83	
R2/20	BEDROOM	W4/20	30.0	19.9	0.66	0.52	0.52	0.31	0.31	164.5	123.5	86.6		0.70	76.7°E	Southerly	12	40	8		20	0.50		12	40	8	20	0.50	
R3/20	BEDROOM	W5/20	30.6	21.2	0.69	0.45	0.45	0.28	0.28	187.9	117.9	80.4		0.68	76.7°E	Southerly	15	49	10		29	0.59		15	49	10	29	0.59	
R4/20	LKD	W6/20	30.7	22.5	0.73	0.65	0.48			321.9	212.8	225.4		1.06	76.7°E	Southerly	14	51	9		30	0.59							
R4/20	LKD	W7/20	30.9	23.1	0.75	0.65	1.30	0.50	0.98						76.7°E	Southerly	14	51	10		31	0.61		14	51	10	31	0.61	
R1/21	LKD	W1/21	30.4	29.2	0.96	0.21	0.21			371.0	307.6	300.4		0.98	13.3°W	Southerly	25	64	22		58	0.91							
R1/21	LKD	W2/21	31.7	30.1	0.95	0.98	0.96								13.3°W	Southerly	24	73	22		64	0.88							
R1/21	LKD	W3/21	32.3	20.2	0.63	1.05	2.23	0.69	1.86						76.7°E	Southerly	15	52	12		31	0.60		25	84	22	64	0.76	
R2/21	BEDROOM	W4/21	32.3	21.2	0.65	0.56	0.56	0.34	0.34	164.5	152.6	89.2		0.58	76.7°E	Southerly	12	45	8		22	0.49		12	45	8	22	0.49	
R3/21	BEDROOM	W5/21	32.9	22.5	0.68	0.48	0.48	0.31	0.31	187.9	156.3	82.2		0.53	76.7°E	Southerly	15	53	11		32	0.60		15	53	11	32	0.60	
R4/21	LKD	W6/21	32.8	23.6	0.72	0.69	0.51			321.9	232.9	225.9		0.97	76.7°E	Southerly	15	53	11		33	0.62							
R4/21	LKD	W7/21	33.0	24.2	0.73	0.69	1.38	0.52	1.03						76.7°E	Southerly	15	53	11		33	0.62		15	53	11	33	0.62	
R5/21	LKD	W8/21	34.2	28.9	0.84	0.66	0.57			361.1	347.0	346.9		1.00	76.7°E	Southerly	14	51	7		40	0.78							
R5/21	LKD	W9/21	34.2	29.1	0.85	0.66	1.32	0.57	1.14						76.7°E	Southerly	14	51	7		40	0.78		14	51	7	40	0.78	
R6/21	BEDROOM	W10/21	32.2	27.5	0.85	0.64	0.64	0.56	0.56	138.3	131.2	126.5		0.96	76.7°E	Southerly	14	52	7		42	0.81		14	52	7	42	0.81	
R1/22	LKD	W1/22	29.3	29.2	1.00	0.52	0.52			386.3	355.9	309.5		0.87	13.3°W	Southerly	22	55	22		55	1.00							
R1/22	LKD	W2/22	10.3	10.3	1.00	0.16	0.16								103.3°W	Northerly	9	30	9		30	1.00							
R1/22	LKD	W3/22	34.3	32.9	0.96	1.48	1.43								13.3°W	Southerly	25	78	22		68	0.87							
R1/22	LKD	W4/22	23.6	14.0	0.60	0.26	0.19								76.7°E	Southerly	16	53	12		33	0.62							
R1/22	LKD	W5/22	34.4	21.8	0.63	1.06	3.47	0.71	3.00						76.7°E	Southerly	16	55	12		32	0.58		25	88	22	68	0.77	
R2/22	BEDROOM	W6/22	34.4	22.7	0.66	0.60	0.60	0.37	0.37	164.5	152.6	92.3		0.60	76.7°E	Southerly	13	47	8		24	0.51		13	47	8	24	0.51	
R3/22	BEDROOM	W7/22	34.8	23.9	0.69	0.51	0.51	0.33	0.33	187.9	178.7	85.5		0.48	76.7°E	Southerly	16	54	11		33	0.61		16	54	11	33	0.61	
R4/22	LKD	W8/22	34.7	25.0	0.72	0.72	0.53			321.9	286.6	226.7		0.79	76.7°E	Southerly	16	55	11		34	0.62							
R4/22	LKD	W9/22	34.8	25.5	0.73	0.72	1.44	0.55	1.08						76.7°E	Southerly	16	55	11		34	0.62		16	55	11	34	0.62	
R5/22	BEDROOM	W10/22	32.2	25.1	0.78	0.66	0.66	0.52	0.52	143.5	130.0	119.5		0.92	76.8°E	Southerly	7	37	2		24	0.65		7	37	2	24	0.65	
R6/22	LKD	W11/22	34.1	27.4	0.80	0.82	0.68			271.5	270.1	256.6		0.95	76.8°E	Southerly	11	44	5		31	0.70							
R6/22	LKD	W12/22	34.7	28.5	0.82	0.83	1.65	0.69	1.37						76.8°E	Southerly	12	46	6		35	0.76		12	46	6	35	0.76	
R7/22	LKD	W13/22	35.3	30.0	0.85	0.67	0.58			361.1	350.0	350.0		1.00	76.7°E	Southerly	14	52	9		44	0.85							
R7/22	LKD	W14/22	35.3	30.2	0.85	0.68	1.35	0.59	1.17						76.7°E	Southerly	14	52	9		44	0.85		14	52	9	44	0.85	
R8/22	BEDROOM	W15/22	33.0	28.4	0.86	0.65	0.65	0.57	0.57	140.1	133.0	129.0		0.97	76.7°E	Southerly	14	53	9		47	0.89		14	53	9	47	0.89	
R1/23	LKD	W1/23	29.8	29.7	1.00	0.52	0.52			386.3	377.4	310.6		0.82	13.3°W	Southerly	23	57	23		57	1.00							
R1/23	LKD	W2/23	10.9	10.9	1.00	0.17	0.17								103.3°W	Northerly	10	32	10		32	1.00							
R1/23	LKD	W3/23	35.0	33.8	0.96	1.50	1.46								13.3°W	Southerly	26	81	23		73	0.90							
R1/23	LKD	W4/23	24.8	15.4	0.62	0.27	0.20								76.7°E	Southerly	16	53	12		35	0.66							
R1/23	LKD	W5/23	36.2	23.6	0.65	1.10	3.57	0.76	3.11						76.7°E	Southerly	16	55	12		35	0.64		26	91	23	73	0.80	
R2/23	BEDROOM	W6/23	36.0	24.3	0.68	0.63	0.63	0.40	0.40	164.5	152.6	94.9		0.62	76.7°E	Southerly	14	48	9		27	0.56		14	48	9	27	0.56	
R3/23	BEDROOM	W7/23	36.3	25.5	0.70	0.53	0.53	0.36	0.36	187.9	178.7	89.9		0.50	76.7°E	Southerly	17	55	11		36	0.65		17	55	11	36	0.65	
R4/23	LKD	W8/23	36.1	26.4	0.73	0.75	0.56			321.9	320.1	229.9		0.72	76.7°E	Southerly	17	56	11		38	0.68							
R4/23	LKD	W9/23	36.2	26.9	0.74	0.75	1.50	0.57	1.13						76.7°E	Southerly	17	56	11		38	0.68		17	56	11	38	0.68	
R5/23	BEDROOM	W10/23	33.3	26.4	0.79	0.68	0.68	0.55	0.55	143.5	130.0	120.5		0.93	76.8°E	Southerly	8	38	3		28	0.74		8	38	3	28	0.74	
R6/23	LKD	W11/23	35.2	28.7	0.82	0.84	0.70			271.5	270.1	258.7		0.96	76.8°E	Southerly	12	46	6		35	0.76							
R6/23	LKD	W12/23	35.7	29.7	0.83	0.85	1.69	0.71	1.41						76.8°E	Southerly	13	49	6		38	0.78		13	49	6	38	0.78	
R7/23	LKD	W13/23	36.2	31.1	0.86	0.69	0.60			361.1	350.0	350.0		1.00	76.7°E	Southerly	14	53	9		46	0.87							
R7/23	LKD	W14/23	36.1	31.3	0.87	0.69	1.37	0.60	1.20						76.7°E	Southerly	14	53	9		46	0.87		14	53	9	46	0.87	
R8/23	BEDROOM	W15/23	33.6	29.4	0.88	0.66	0.66	0.58	0.58	140.1	133.0	130.6		0.98	76.7°E	Southerly	16	55	11		50	0.91		16	55	11	50	0.91	
R1/24	LKD	W1/24	30.4	30.3	1.00	0.51	0.51			386.3	377.4	315.7		0.84	13.3°W	Southerly	23	57	23		57	1.00							
R1/24	LKD	W2/24	11.6	11.6	1.00	0.17	0.17								103.3°W	Northerly													

Location			Vertical Sky Component (VSC)			Average Daylight Factor (ADF)				No-Sky Line (NSL)				Window		Annual Probable Sunlight Hours (APSH) (window)				Annual Probable Sunlight Hours (APSH) (room)					
Room	Room Use	Window	EXISTING VSC	PROPOSED VSC	Reduction Factor	EXISTING ADF	TOTAL ADF	PROPOSED ADF	TOTAL ADF	Whole Room	EXISTING sq ft	PROPOSED sq ft	Reduction Factor	Angle from South	Aspect	EXISTING Winter %	EXISTING Annual %	PROPOSED Winter %	PROPOSED Annual %	Reduction Factor	Existing Winter %	Proposed Winter %	Existing Annual %	Proposed Annual %	Reduction Factor
R1/24	LKD	W5/24	37.1	25.6	0.69	1.08	3.48	0.78	3.08					76.7°E	Southerly	16	56	14	39	0.70	26	90	25	76	0.84
R2/24	BEDROOM	W6/24	36.8	26.2	0.71	0.61	0.61	0.42	0.42	164.5	152.6	99.3	0.65	76.7°E	Southerly	14	49	10	31	0.63	14	49	10	31	0.63
R3/24	BEDROOM	W7/24	37.1	27.3	0.73	0.52	0.52	0.37	0.37	187.9	178.7	94.7	0.53	76.7°E	Southerly	17	56	12	40	0.71	17	56	12	40	0.71
R4/24	LKD	W8/24	37.1	28.0	0.75	0.73	1.46	0.56	1.14	321.9	320.1	234.6	0.73	76.7°E	Southerly	17	57	12	42	0.74					
R4/24	LKD	W9/24	37.1	28.5	0.77	0.73	1.46	0.57	1.14					76.7°E	Southerly	17	57	12	43	0.75	17	57	12	43	0.75
R5/24	BEDROOM	W10/24	34.2	28.0	0.82	0.66	0.66	0.54	0.54	143.5	130.0	122.1	0.94	76.8°E	Southerly	8	39	3	30	0.77	8	39	3	30	0.77
R6/24	LKD	W11/24	36.1	30.1	0.83	0.82		0.69		271.5	270.1	259.9	0.96	76.8°E	Southerly	12	49	6	40	0.82					
R6/24	LKD	W12/24	36.6	31.1	0.85	0.82	1.64	0.70	1.40					76.8°E	Southerly	13	52	7	44	0.85	13	52	7	44	0.85
R7/24	LKD	W13/24	36.8	32.3	0.88	0.66		0.59		361.1	350.0	350.0	1.00	76.7°E	Southerly	16	56	12	51	0.91					
R7/24	LKD	W14/24	36.7	32.5	0.88	0.67	1.33	0.59	1.18					76.7°E	Southerly	16	56	12	51	0.91	16	56	12	51	0.91
R8/24	BEDROOM	W15/24	34.1	30.4	0.89	0.63	0.63	0.57	0.57	140.1	133.0	131.9	0.99	76.7°E	Southerly	16	56	12	52	0.93	16	56	12	52	0.93
R1/25	LKD	W1/25	36.3	36.0	0.99	0.84		0.84		742.0	738.4	737.4	1.00	13.6°W	Southerly	27	84	25	81	0.96					
R1/25	LKD	W2/25	31.6	31.5	0.99	0.79		0.79						13.3°W	Southerly	25	60	25	60	1.00					
R1/25	LKD	W3/25	15.1	15.1	1.00	0.13		0.13						103.3°W	Northerly	11	33	11	33	1.00					
R1/25	LKD	W4/25	36.7	36.1	0.98	0.96		0.95						13.3°W	Southerly	28	83	28	80	0.96					
R1/25	LKD	W5/25	25.8	18.9	0.73	0.17		0.14						76.7°E	Southerly	17	54	15	44	0.81					
R1/25	LKD	W6/25	37.6	28.0	0.75	0.70	3.59	0.54	3.38					76.7°E	Southerly	17	57	15	44	0.77	28	96	26	85	0.89
R2/25	BEDROOM	W7/25	37.4	28.6	0.76	0.65	0.65	0.49	0.49	149.3	144.7	63.6	0.44	76.7°E	Southerly	14	54	10	43	0.80	14	54	10	43	0.80
R3/25	BEDROOM	W8/25	37.6	29.4	0.78	0.61	0.61	0.47	0.47	159.2	149.4	93.7	0.63	76.7°E	Southerly	17	57	13	47	0.82	17	57	13	47	0.82
R4/25	LKD	W9/25	37.6	29.9	0.80	0.98		0.80		228.2	225.7	193.9	0.86	76.7°E	Southerly	17	57	12	45	0.79					
R4/25	LKD	W10/25	37.6	30.3	0.81	0.98	1.97	0.81	1.60					76.7°E	Southerly	17	57	12	46	0.81	17	57	12	46	0.81
R5/25	BEDROOM	W11/25	35.9	30.7	0.85	0.70	0.70	0.60	0.60	143.5	130.3	124.6	0.96	76.8°E	Southerly	9	49	4	43	0.88	9	49	4	43	0.88
R6/25	LKD	W12/25	37.1	32.1	0.87	0.86		0.75		271.5	270.1	260.4	0.96	76.8°E	Southerly	15	55	9	48	0.87					
R6/25	LKD	W13/25	37.4	32.8	0.88	0.86	1.72	0.76	1.51					76.8°E	Southerly	15	55	9	48	0.87	15	55	9	48	0.87
R7/25	LKD	W14/25	37.5	33.8	0.90	0.70		0.63		361.1	350.0	350.0	1.00	76.7°E	Southerly	17	57	13	52	0.91					
R7/25	LKD	W15/25	37.4	33.9	0.91	0.70	1.39	0.64	1.27					76.7°E	Southerly	17	57	13	53	0.93	17	57	13	53	0.93
R8/25	BEDROOM	W16/25	34.9	32.0	0.92	0.67	0.67	0.61	0.61	140.1	133.0	132.9	1.00	76.7°E	Southerly	17	57	13	53	0.93	17	57	13	53	0.93
R1/30	LKD	W1/30	32.5	29.7	0.92	0.77		0.71		276.2	197.6	166.3	0.84	76.6°E	Southerly	17	56	17	52	0.93					
R1/30	LKD	W2/30	32.2	29.5	0.91	0.77	1.54	0.71	1.42					76.6°E	Southerly	17	56	17	51	0.91	17	56	17	52	0.93
R2/30	LKD	W3/30	31.7	28.9	0.91	0.73		0.67		301.1	260.1	256.9	0.99	76.6°E	Southerly	16	54	16	49	0.91					
R2/30	LKD	W4/30	15.6	15.0	0.96	0.24	0.97	0.24	0.91					166.7°E	Northerly	0	9	0	5	0.56	16	54	16	49	0.91
R1/31	LKD	W1/31	33.6	30.9	0.92	0.79		0.73		276.2	203.2	179.6	0.88	76.6°E	Southerly	17	56	17	52	0.93					
R1/31	LKD	W2/31	33.4	30.7	0.92	0.79	1.58	0.73	1.46					76.6°E	Southerly	17	55	17	51	0.93	17	56	17	52	0.93
R2/31	LKD	W3/31	33.0	30.2	0.92	0.75		0.70		301.1	297.2	295.0	0.99	76.6°E	Southerly	16	54	16	49	0.91					
R2/31	LKD	W4/31	32.7	30.0	0.92	0.75		0.69						76.6°E	Southerly	16	53	16	48	0.91					
R2/31	LKD	W5/31	16.8	16.3	0.97	0.25	1.75	0.25	1.63					166.7°E	Northerly	0	9	0	6	0.67	16	54	16	50	0.93
R1/32	LKD	W1/32	34.8	32.1	0.92	0.81		0.76		276.2	212.0	197.5	0.93	76.6°E	Southerly	17	55	17	51	0.93					
R1/32	LKD	W2/32	34.6	32.0	0.92	0.81	1.62	0.75	1.51					76.6°E	Southerly	17	55	17	51	0.93	17	55	17	51	0.93
R2/32	LKD	W3/32	34.3	31.6	0.92	0.78		0.72		301.1	297.2	295.0	0.99	76.6°E	Southerly	16	53	16	49	0.92					
R2/32	LKD	W4/32	34.1	31.4	0.92	0.77		0.72						76.6°E	Southerly	16	54	16	50	0.93					
R2/32	LKD	W5/32	18.1	17.5	0.97	0.26	1.80	0.26	1.69					166.7°E	Northerly	0	10	0	6	0.60	16	54	16	50	0.93
R1/33	LKD	W1/33	35.7	33.3	0.93	0.83		0.78		276.2	222.9	222.8	1.00	76.6°E	Southerly	17	53	17	50	0.94					
R1/33	LKD	W2/33	35.7	33.2	0.93	0.83	1.66	0.77	1.55					76.6°E	Southerly	17	53	17	50	0.94	17	53	17	50	0.94
R2/33	LKD	W3/33	35.5	32.9	0.93	0.80		0.74		301.1	297.3	295.1	0.99	76.6°E	Southerly	16	53	16	50	0.94					
R2/33	LKD	W4/33	35.3	32.8	0.93	0.79		0.74						76.6°E	Southerly	15	53	15	50	0.94					
R2/33	LKD	W5/33	19.4	18.8	0.97	0.26	1.85	0.26	1.75					166.7°E	Northerly	0	10	0	7	0.70	16	54	16	51	0.94
R1/34	LKD	W1/34	36.4	34.3	0.94	0.84		0.80		276.2	230.6	230.6	1.00	76.6°E	Southerly	16	49	16	46	0.94					
R1/34	LKD	W2/34	36.5	34.3	0.94	0.84	1.69	0.80	1.60					76.6°E	Southerly	15	50	15	47	0.94	16	51	16	48	0.94
R2/34	LKD	W3/34	36.5	34.3	0.94	0.81		0.77		301.1	297.3	296.9	1.00	76.6°E	Southerly	14	52	14	49	0.94					
R2/34	LKD	W4/34	36.4	34.2	0.94	0.81		0.76						76.6°E	Southerly	14	53	14	50	0.94					
R2/34	LKD	W5/34	20.6	20.1	0.98	0.27	1.90	0.27	1.80					166.7°E	Northerly	0	10	0	9	0.90	14	53	14	52	0.98
R1/35	LKD	W1/35	36.7	35.0	0.95	0.86		0.82		276.2	230.6	230.6	1.00	76.6°E	Southerly	12	49	12	48	0.98					
R1/35	LKD	W2/35	37.2	35.4	0.95	0.86	1.71	0.82	1.64					76.6°E	Southerly	14	54	14	53	0.98	14	54	14	53	0.98

Location			Vertical Sky Component (VSC)			Average Daylight Factor (ADF)				No-Sky Line (NSL)				Window		Annual Probable Sunlight Hours (APSH) (window)				Annual Probable Sunlight Hours (APSH) (room)					
Room	Room Use	Window	EXISTING VSC	PROPOSED VSC	Reduction Factor	EXISTING ADF	TOTAL ADF	PROPOSED ADF	TOTAL ADF	Whole Room	EXISTING sq ft	PROPOSED sq ft	Reduction Factor	Angle from South	Aspect	EXISTING Winter %	EXISTING Annual %	PROPOSED Winter %	PROPOSED Annual %	Reduction Factor	Existing Winter %	Existing Annual %	Proposed Winter %	Proposed Annual %	Reduction Factor
R2/35	LKD	W3/35	37.4	35.6	0.95	0.83	0.79			301.1	297.3	297.3	1.00	76.6°E	Southerly	16	56	16	55	0.98					
R2/35	LKD	W4/35	37.4	35.6	0.95	0.83	0.79							76.6°E	Southerly	16	56	16	55	0.98					
R2/35	LKD	W5/35	21.9	21.4	0.98	0.28	1.93	0.28	1.86					166.7°E	Northerly	0	11	0	10	0.91	16	56	16	55	0.98
R2/36	BEDROOM	W3/36	38.1	36.6	0.96	0.98	0.98	0.94	0.94	213.8	203.3	203.3	1.00	76.6°E	Southerly	17	57	17	57	1.00	17	57	17	57	1.00

Room	Window	Room Use	Orientation	Angle from South	Orientation	Sunlight			
						Window		Room	
						Winter APSH	Annual APSH	Winter APSH	Annual APSH
131 Minerva Street									
R1/10	W1/10	LD	282.3	102.3	Northerly	4	9	4	9
R3/10	W3/10	LD	282.3	102.3	Northerly	5	17	5	17
R5/10	W5/10	LD	282.3	102.3	Northerly	5	18	5	18
R8/10	W8/10	LKD	282.3	102.3	Northerly	2	13		
R8/10	W9/10	LKD	192.3	12.3	Southerly	25	45		
R8/10	W10/10	LKD	192.3	12.3	Southerly	24	44		
R8/10	W11/10	LKD	192.3	12.3	Southerly	15	33	25	58
R1/11	W1/11	LD	282.3	102.3	Northerly	3	17		
R1/11	W2/11	LD	192.3	12.3	Southerly	5	20	5	22
R3/11	W4/11	LD	282.3	102.3	Northerly	3	19		
R3/11	W5/11	LD	192.3	12.3	Southerly	6	22	6	25
R6/11	W8/11	LD	282.3	102.3	Northerly	5	24		
R6/11	W9/11	LD	192.3	12.3	Southerly	7	23	7	29
R8/11	W11/11	LD	282.3	102.3	Northerly	5	25		
R8/11	W12/11	LD	192.3	12.3	Southerly	7	23	7	30
R11/11	W16/11	LKD	282.3	102.3	Northerly	2	13		
R11/11	W17/11	LKD	192.3	12.3	Southerly	24	32		
R11/11	W18/11	LKD	192.3	12.3	Southerly	24	32		
R11/11	W19/11	LKD	192.3	12.3	Southerly	15	28	24	48
R15/11	W23/11	LD	192.3	12.3	Southerly	20	42		
R15/11	W24/11	LD	102.3	77.7	Southerly	6	22	20	48
R17/11	W26/11	LD	192.3	12.3	Southerly	21	50		
R17/11	W27/11	LD	102.3	77.7	Southerly	5	21	21	56
R19/11	W29/11	LD	192.3	12.3	Southerly	21	56		
R19/11	W30/11	LD	102.3	77.7	Southerly	7	26	23	67
R1/12	W1/12	LD	282.3	102.3	Northerly	4	20		
R1/12	W2/12	LD	192.3	12.3	Southerly	6	21	6	25
R3/12	W4/12	LD	282.3	102.3	Northerly	5	22		
R3/12	W5/12	LD	192.3	12.3	Southerly	8	24	8	28
R6/12	W8/12	LD	282.3	102.3	Northerly	5	24		
R6/12	W9/12	LD	192.3	12.3	Southerly	7	23	7	29
R8/12	W11/12	LD	282.3	102.3	Northerly	5	26		
R8/12	W12/12	LD	192.3	12.3	Southerly	7	23	7	31
R11/12	W16/12	LKD	282.3	102.3	Northerly	2	14		

Room	Window	Room Use	Orientation	Angle from South	Orientation	Sunlight			
						Window		Room	
						Winter APSH	Annual APSH	Winter APSH	Annual APSH
R11/12	W17/12	LKD	192.3	12.3	Southerly	24	32		
R11/12	W18/12	LKD	192.3	12.3	Southerly	24	32		
R11/12	W19/12	LKD	192.3	12.3	Southerly	15	28	24	49
R15/12	W23/12	LD	192.3	12.3	Southerly	20	43		
R15/12	W24/12	LD	102.3	77.7	Southerly	7	23	20	49
R17/12	W26/12	LD	192.3	12.3	Southerly	23	53		
R17/12	W27/12	LD	102.3	77.7	Southerly	6	22	23	59
R19/12	W29/12	LD	192.3	12.3	Southerly	23	59		
R19/12	W30/12	LD	102.3	77.7	Southerly	7	26	25	70
R1/13	W1/13	LD	282.3	102.3	Northerly	5	24		
R1/13	W2/13	LD	192.3	12.3	Southerly	6	22	7	29
R3/13	W4/13	LD	282.3	102.3	Northerly	5	24		
R3/13	W5/13	LD	192.3	12.3	Southerly	8	24	8	30
R6/13	W8/13	LD	282.3	102.3	Northerly	6	27		
R6/13	W9/13	LD	192.3	12.3	Southerly	8	24	8	32
R8/13	W11/13	LD	282.3	102.3	Northerly	6	27		
R8/13	W12/13	LD	192.3	12.3	Southerly	8	24	8	32
R11/13	W16/13	LKD	282.3	102.3	Northerly	2	14		
R11/13	W17/13	LKD	192.3	12.3	Southerly	24	32		
R11/13	W18/13	LKD	192.3	12.3	Southerly	24	32		
R11/13	W19/13	LKD	192.3	12.3	Southerly	15	28	24	49
R15/13	W23/13	LD	192.3	12.3	Southerly	20	45		
R15/13	W24/13	LD	102.3	77.7	Southerly	7	23	20	51
R17/13	W26/13	LD	192.3	12.3	Southerly	23	56		
R17/13	W27/13	LD	102.3	77.7	Southerly	7	23	23	62
R19/13	W29/13	LD	192.3	12.3	Southerly	24	60		
R19/13	W30/13	LD	102.3	77.7	Southerly	8	27	26	71
R1/14	W1/14	LD	282.3	102.3	Northerly	6	28		
R1/14	W2/14	LD	192.3	12.3	Southerly	8	24	8	33
R3/14	W4/14	LD	282.3	102.3	Northerly	6	27		
R3/14	W5/14	LD	192.3	12.3	Southerly	8	24	9	33
R6/14	W8/14	LD	282.3	102.3	Northerly	6	28		
R6/14	W9/14	LD	192.3	12.3	Southerly	8	24	8	33
R8/14	W11/14	LD	282.3	102.3	Northerly	6	29		
R8/14	W12/14	LD	192.3	12.3	Southerly	8	24	8	34
R11/14	W16/14	LKD	282.3	102.3	Northerly	2	15		

Room	Window	Room Use	Orientation	Angle from South	Orientation	Sunlight			
						Window		Room	
						Winter APSH	Annual APSH	Winter APSH	Annual APSH
R11/14	W17/14	LKD	192.3	12.3	Southerly	25	33		
R11/14	W18/14	LKD	192.3	12.3	Southerly	25	33		
R11/14	W19/14	LKD	192.3	12.3	Southerly	16	29	25	51
R15/14	W23/14	LD	192.3	12.3	Southerly	20	47		
R15/14	W24/14	LD	102.3	77.7	Southerly	7	23	20	53
R17/14	W26/14	LD	192.3	12.3	Southerly	24	60		
R17/14	W27/14	LD	102.3	77.7	Southerly	7	23	24	66
R19/14	W29/14	LD	192.3	12.3	Southerly	24	62		
R19/14	W30/14	LD	102.3	77.7	Southerly	9	28	26	73
R1/15	W1/15	LD	282.3	102.3	Northerly	7	30		
R1/15	W2/15	LD	192.3	12.3	Southerly	9	25	9	35
R3/15	W4/15	LD	282.3	102.3	Northerly	7	30		
R3/15	W5/15	LD	192.3	12.3	Southerly	10	26	10	36
R6/15	W8/15	LD	282.3	102.3	Northerly	7	30		
R6/15	W9/15	LD	192.3	12.3	Southerly	8	24	9	35
R8/15	W11/15	LD	282.3	102.3	Northerly	6	29		
R8/15	W12/15	LD	192.3	12.3	Southerly	8	24	8	34
R11/15	W16/15	LKD	282.3	102.3	Northerly	2	15		
R11/15	W17/15	LKD	192.3	12.3	Southerly	25	33		
R11/15	W18/15	LKD	192.3	12.3	Southerly	25	33		
R11/15	W19/15	LKD	192.3	12.3	Southerly	16	29	25	51
R15/15	W23/15	LD	192.3	12.3	Southerly	20	51		
R15/15	W24/15	LD	102.3	77.7	Southerly	7	23	20	57
R17/15	W26/15	LD	192.3	12.3	Southerly	24	61		
R17/15	W27/15	LD	102.3	77.7	Southerly	7	23	24	67
R19/15	W29/15	LD	192.3	12.3	Southerly	24	63		
R19/15	W30/15	LD	102.3	77.7	Southerly	9	28	26	74
R1/16	W1/16	LD	282.3	102.3	Northerly	7	30		
R1/16	W2/16	LD	192.3	12.3	Southerly	9	28	9	38
R3/16	W4/16	LD	282.3	102.3	Northerly	7	30		
R3/16	W5/16	LD	192.3	12.3	Southerly	10	32	10	42
R6/16	W8/16	LD	282.3	102.3	Northerly	7	30		
R6/16	W9/16	LD	192.3	12.3	Southerly	9	28	9	38
R8/16	W11/16	LD	282.3	102.3	Northerly	7	30		
R8/16	W12/16	LD	192.3	12.3	Southerly	9	32	9	42
R11/16	W16/16	LKD	282.3	102.3	Northerly	2	17		

Room	Window	Room Use	Orientation	Angle from South	Orientation	Sunlight			
						Window		Room	
						Winter APSH	Annual APSH	Winter APSH	Annual APSH
R11/16	W17/16	LKD	192.3	12.3	Southerly	26	66		
R11/16	W18/16	LKD	192.3	12.3	Southerly	25	63		
R11/16	W19/16	LKD	192.3	12.3	Southerly	16	36	26	75
R15/16	W23/16	LD	192.3	12.3	Southerly	23	56		
R15/16	W24/16	LD	102.3	77.7	Southerly	7	23	23	62
R17/16	W26/16	LD	192.3	12.3	Southerly	25	63		
R17/16	W27/16	LD	102.3	77.7	Southerly	7	23	25	69
R19/16	W29/16	LD	192.3	12.3	Southerly	26	65		
R19/16	W30/16	LD	102.3	77.7	Southerly	9	36	28	84
R6/17	W7/17	LKD	282.3	102.3	Northerly	3	13		
R6/17	W8/17	LKD	282.3	102.3	Northerly	5	19		
R6/17	W9/17	LKD	192.3	12.3	Southerly	27	59		
R6/17	W10/17	LKD	192.3	12.3	Southerly	27	59	27	69
R8/17	W12/17	LIVINGROOM	192.3	12.3	Southerly	25	29	25	29
R10/17	W14/17	LD	192.3	12.3	Southerly	27	33		
R10/17	W15/17	LD	192.3	12.3	Southerly	26	50	27	53
R14/17	W1/17	LKD	282.3	102.3	Northerly	5	19		
R14/17	W20/17	LKD	102.3	77.7	Southerly	0	23	5	42
R7/18	W8/18	LKD	282.3	102.3	Northerly	7	21		
R7/18	W9/18	LKD	192.3	12.3	Southerly	27	67		
R7/18	W10/18	LKD	192.3	12.3	Southerly	27	67	27	76
R9/18	W12/18	LIVINGROOM	192.3	12.3	Southerly	25	29	25	29
R11/18	W14/18	LD	192.3	12.3	Southerly	27	34		
R11/18	W15/18	LD	192.3	12.3	Southerly	26	50	27	54
R15/18	W1/18	LKD	282.3	102.3	Northerly	7	21		
R15/18	W20/18	LKD	102.3	77.7	Southerly	1	24	8	45
R7/19	W8/19	LKD	282.3	102.3	Northerly	7	30		
R7/19	W9/19	LKD	192.3	12.3	Southerly	27	67		
R7/19	W10/19	LKD	192.3	12.3	Southerly	27	67	27	76
R9/19	W12/19	LIVINGROOM	192.3	12.3	Southerly	25	65	25	65
R11/19	W14/19	LD	192.3	12.3	Southerly	27	67		
R11/19	W15/19	LD	192.3	12.3	Southerly	27	67	27	67
R15/19	W1/19	LKD	282.3	102.3	Northerly	7	30		
R15/19	W20/19	LKD	102.3	77.7	Southerly	3	29	10	59

Room	Window	Room Use	Orientation	Angle from South	Orientation	Sunlight			
						Winter APSH	Window Annual APSH	Room Annual APSH	Winter APSH
131 Minerva Street									
R1/10	W1/10	LD	282.3	102.3	Northerly	4	9	4	9
R3/10	W3/10	LD	282.3	102.3	Northerly	5	16	5	16
R5/10	W5/10	LD	282.3	102.3	Northerly	5	17	5	17
R8/10	W8/10	LKD	282.3	102.3	Northerly	1	13		
R8/10	W9/10	LKD	192.3	12.3	Southerly	24	45		
R8/10	W10/10	LKD	192.3	12.3	Southerly	23	44		
R8/10	W11/10	LKD	192.3	12.3	Southerly	16	36	24	61
R1/11	W1/11	LD	282.3	102.3	Northerly	4	17		
R1/11	W2/11	LD	192.3	12.3	Southerly	5	19	5	21
R3/11	W4/11	LD	282.3	102.3	Northerly	4	18		
R3/11	W5/11	LD	192.3	12.3	Southerly	10	24	10	27
R6/11	W8/11	LD	282.3	102.3	Northerly	5	25		
R6/11	W9/11	LD	192.3	12.3	Southerly	6	20	6	29
R8/11	W11/11	LD	282.3	102.3	Northerly	5	27		
R8/11	W12/11	LD	192.3	12.3	Southerly	6	20	6	31
R11/11	W16/11	LD	282.3	102.3	Northerly	1	13		
R11/11	W17/11	LD	192.3	12.3	Southerly	26	36		
R11/11	W18/11	LD	192.3	12.3	Southerly	25	34		
R11/11	W19/11	LD	192.3	12.3	Southerly	17	30	26	53
R15/11	W23/11	LD	192.3	12.3	Southerly	21	44		
R15/11	W24/11	LD	102.3	77.7	Southerly	6	22	21	50
R17/11	W26/11	LD	192.3	12.3	Southerly	23	52		
R17/11	W27/11	LD	102.3	77.7	Southerly	4	20	23	58
R19/11	W29/11	LD	192.3	12.3	Southerly	23	57		
R19/11	W30/11	LD	102.3	77.7	Southerly	5	24	24	67
R1/12	W1/12	LD	282.3	102.3	Northerly	4	21		
R1/12	W2/12	LD	192.3	12.3	Southerly	6	20	6	26
R3/12	W4/12	LD	282.3	102.3	Northerly	5	22		
R3/12	W5/12	LD	192.3	12.3	Southerly	10	24	10	30
R6/12	W8/12	LD	282.3	102.3	Northerly	5	25		

Room	Window	Room Use	Orientation	Angle from South	Orientation	Sunlight			
						Winter APSH	Window Annual APSH	Winter APSH	Room Annual APSH
R6/12	W9/12	LD	192.3	12.3	Southerly	6	20	6	29
R8/12	W11/12	LD	282.3	102.3	Northerly	5	27		
R8/12	W12/12	LD	192.3	12.3	Southerly	6	20	6	31
R11/12	W16/12	LD	282.3	102.3	Northerly	1	15		
R11/12	W17/12	LD	192.3	12.3	Southerly	27	37		
R11/12	W18/12	LD	192.3	12.3	Southerly	25	34		
R11/12	W19/12	LD	192.3	12.3	Southerly	17	30	27	56
R15/12	W23/12	LD	192.3	12.3	Southerly	21	44		
R15/12	W24/12	LD	102.3	77.7	Southerly	6	22	21	50
R17/12	W26/12	LD	192.3	12.3	Southerly	24	55		
R17/12	W27/12	LD	102.3	77.7	Southerly	5	21	24	61
R19/12	W29/12	LD	192.3	12.3	Southerly	24	58		
R19/12	W30/12	LD	102.3	77.7	Southerly	5	24	25	68
R1/13	W1/13	LD	282.3	102.3	Northerly	5	23		
R1/13	W2/13	LD	192.3	12.3	Southerly	6	20	6	27
R3/13	W4/13	LD	282.3	102.3	Northerly	5	23		
R3/13	W5/13	LD	192.3	12.3	Southerly	10	24	10	31
R6/13	W8/13	LD	282.3	102.3	Northerly	5	26		
R6/13	W9/13	LD	192.3	12.3	Southerly	6	20	6	30
R8/13	W11/13	LD	282.3	102.3	Northerly	5	28		
R8/13	W12/13	LD	192.3	12.3	Southerly	6	20	6	32
R11/13	W16/13	LD	282.3	102.3	Northerly	1	15		
R11/13	W17/13	LD	192.3	12.3	Southerly	28	38		
R11/13	W18/13	LD	192.3	12.3	Southerly	26	35		
R11/13	W19/13	LD	192.3	12.3	Southerly	17	30	28	57
R15/13	W23/13	LD	192.3	12.3	Southerly	21	46		
R15/13	W24/13	LD	102.3	77.7	Southerly	6	22	21	52
R17/13	W26/13	LD	192.3	12.3	Southerly	24	56		
R17/13	W27/13	LD	102.3	77.7	Southerly	6	22	24	62
R19/13	W29/13	LD	192.3	12.3	Southerly	25	62		
R19/13	W30/13	LD	102.3	77.7	Southerly	6	25	26	72
R1/14	W1/14	LD	282.3	102.3	Northerly	5	28		

Room	Window	Room Use	Orientation	Angle from South	Orientation	Sunlight			
						Winter APSH	Window Annual APSH	Winter APSH	Room Annual APSH
R1/14	W2/14	LD	192.3	12.3	Southerly	6	20	6	32
R3/14	W4/14	LD	282.3	102.3	Northerly	5	28		
R3/14	W5/14	LD	192.3	12.3	Southerly	10	24	10	36
R6/14	W8/14	LD	282.3	102.3	Northerly	5	28		
R6/14	W9/14	LD	192.3	12.3	Southerly	6	20	6	32
R8/14	W11/14	LD	282.3	102.3	Northerly	5	28		
R8/14	W12/14	LD	192.3	12.3	Southerly	6	20	6	32
R11/14	W16/14	LD	282.3	102.3	Northerly	1	15		
R11/14	W17/14	LD	192.3	12.3	Southerly	28	38		
R11/14	W18/14	LD	192.3	12.3	Southerly	26	35		
R11/14	W19/14	LD	192.3	12.3	Southerly	17	30	28	57
R15/14	W23/14	LD	192.3	12.3	Southerly	22	50		
R15/14	W24/14	LD	102.3	77.7	Southerly	7	23	22	56
R17/14	W26/14	LD	192.3	12.3	Southerly	24	59		
R17/14	W27/14	LD	102.3	77.7	Southerly	6	22	24	65
R19/14	W29/14	LD	192.3	12.3	Southerly	25	63		
R19/14	W30/14	LD	102.3	77.7	Southerly	7	26	26	73
R1/15	W1/15	LD	282.3	102.3	Northerly	6	29		
R1/15	W2/15	LD	192.3	12.3	Southerly	7	21	7	33
R3/15	W4/15	LD	282.3	102.3	Northerly	6	29		
R3/15	W5/15	LD	192.3	12.3	Southerly	10	24	11	37
R6/15	W8/15	LD	282.3	102.3	Northerly	5	28		
R6/15	W9/15	LD	192.3	12.3	Southerly	6	20	6	32
R8/15	W11/15	LD	282.3	102.3	Northerly	5	28		
R8/15	W12/15	LD	192.3	12.3	Southerly	6	20	6	32
R11/15	W16/15	LD	282.3	102.3	Northerly	1	15		
R11/15	W17/15	LD	192.3	12.3	Southerly	28	38		
R11/15	W18/15	LD	192.3	12.3	Southerly	26	35		
R11/15	W19/15	LD	192.3	12.3	Southerly	17	30	28	57
R15/15	W23/15	LD	192.3	12.3	Southerly	22	54		
R15/15	W24/15	LD	102.3	77.7	Southerly	7	23	22	60
R17/15	W26/15	LD	192.3	12.3	Southerly	25	63		

Room	Window	Room Use	Orientation	Angle from South	Orientation	Sunlight			
						Winter APSH	Window Annual APSH	Winter APSH	Room Annual APSH
R17/15	W27/15	LD	102.3	77.7	Southerly	7	23	25	69
R19/15	W29/15	LD	192.3	12.3	Southerly	25	64		
R19/15	W30/15	LD	102.3	77.7	Southerly	7	26	26	74
R1/16	W1/16	LD	282.3	102.3	Northerly	6	29		
R1/16	W2/16	LD	192.3	12.3	Southerly	7	24	7	36
R3/16	W4/16	LD	282.3	102.3	Northerly	6	29		
R3/16	W5/16	LD	192.3	12.3	Southerly	11	31	11	43
R6/16	W8/16	LD	282.3	102.3	Northerly	6	29		
R6/16	W9/16	LD	192.3	12.3	Southerly	7	24	7	36
R8/16	W11/16	LD	282.3	102.3	Northerly	5	28		
R8/16	W12/16	LD	192.3	12.3	Southerly	6	26	6	38
R11/16	W16/16	LD	282.3	102.3	Northerly	1	16		
R11/16	W17/16	LD	192.3	12.3	Southerly	28	67		
R11/16	W18/16	LD	192.3	12.3	Southerly	26	64		
R11/16	W19/16	LD	192.3	12.3	Southerly	17	37	28	77
R15/16	W23/16	LD	192.3	12.3	Southerly	24	57		
R15/16	W24/16	LD	102.3	77.7	Southerly	7	24	24	64
R17/16	W26/16	LD	192.3	12.3	Southerly	26	64		
R17/16	W27/16	LD	102.3	77.7	Southerly	7	24	26	71
R19/16	W29/16	LD	192.3	12.3	Southerly	27	67		
R19/16	W30/16	LD	102.3	77.7	Southerly	8	32	28	82
R1/17	W1/17	LKD	282.3	102.3	Northerly	4	17		
R1/17	W20/17	LKD	102.3	77.7	Southerly	1	21	5	38
R7/17	W7/17	LKD	282.3	102.3	Northerly	4	15		
R7/17	W8/17	LKD	282.3	102.3	Northerly	4	17		
R7/17	W9/17	LKD	192.3	12.3	Southerly	29	64		
R7/17	W10/17	LKD	192.3	12.3	Southerly	29	64	29	74
R9/17	W12/17	LD	192.3	12.3	Southerly	26	31	26	31
R11/17	W14/17	LD	192.3	12.3	Southerly	28	37		
R11/17	W15/17	LD	192.3	12.3	Southerly	28	51	28	55
R1/18	W1/18	LKD	282.3	102.3	Northerly	6	19		
R1/18	W22/18	LKD	102.3	77.7	Southerly	1	22	7	41

Room	Window	Room Use	Orientation	Angle from South	Orientation	Sunlight			
						Winter APSH	Window Annual APSH	Room Winter APSH	Room Annual APSH
R8/18	W8/18	LKD	282.3	102.3	Northerly	6	19		
R8/18	W9/18	LKD	192.3	12.3	Southerly	29	68		
R8/18	W10/18	LKD	192.3	12.3	Southerly	29	68		
R8/18	W11/18	LKD	102.3	77.7	Southerly	12	40		
R8/18	W12/18	LKD	102.3	77.7	Southerly	12	37	30	95
R10/18	W14/18	LD	192.3	12.3	Southerly	26	33	26	33
R12/18	W16/18	LD	192.3	12.3	Southerly	28	38		
R12/18	W17/18	LD	192.3	12.3	Southerly	28	51	28	56
R1/19	W1/19	LKD	282.3	102.3	Northerly	6	29		
R1/19	W22/19	LKD	102.3	77.7	Southerly	2	25	8	54
R8/19	W8/19	LKD	282.3	102.3	Northerly	6	29		
R8/19	W9/19	LKD	192.3	12.3	Southerly	29	68		
R8/19	W10/19	LKD	192.3	12.3	Southerly	29	68		
R8/19	W11/19	LKD	102.3	77.7	Southerly	14	42		
R8/19	W12/19	LKD	102.3	77.7	Southerly	14	42	31	97
R10/19	W14/19	LD	192.3	12.3	Southerly	28	68	28	68
R12/19	W16/19	LD	192.3	12.3	Southerly	30	71		
R12/19	W17/19	LD	192.3	12.3	Southerly	28	67	30	71