Government Property Agency

AtkinsRéalis



MANCHESTER DIGITAL CAMPUS

Environmental Statement

Volume 4 - Appendix 11.1:

Daylight, sunlight, overshadowing and solar glare appendix

NOVEMBER 2024

Notice

This document and its contents have been prepared and are intended solely as information for Government Property Agency and use in relation to Environmental Impact Assessment of the Manchester Digital Campus

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This document has 79 pages including the cover.

Document history

Document title: Environmental Statement Volume 4 Appendix 11.1 Daylight, Sunlight, Overshadowing and Solar Glare

Document reference: MDCX-ATR-XX-XX-RP-Z-000032

Revision	Purpose description	Originated	Checked	Reviewed	Authorised	Date
1.0	Planning submission issue	AC	JR	IL	NB	25/11/2024

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11. Daylight, Sunlight, Overshadowing and Solar Glare

11.1.1 Location plan



NEIGHBOURING PROPERTIES CONSIDERED FOR ANALYSIS

1: New Islington School:
Dwg No: 23325-LOC-001

2: Old Mill and Decker Mill:
Dwg No: 23325-LOC-002

3: Royal Mills and Sedgwick Mills:
Dwg No: 23325-LOC-003-01
23325-LOC-003-02

4: MM2 Building Flats 1-65:
Dwg No: 23325-LOC-004-01
23325-LOC-004-02

5: MM2 Building Flats 66-93:
Dwg No: 23325-LOC-004-01
23325-LOC-004-02

6: Brownsfield Mill:
Dwg No: 23325-LOC-005

7: 40 Laystall St:
Dwg No: 23325-LOC-006

8: Port Street:
Dwg No: 23325-LOC-007

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

Existing	Consented
Proposed	Cumulative
Neighboring Property	Cutback Envelope

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoats Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:
-

REV	Description	Drawn	Date

London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

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TITLE:
MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:
LOCATION PLAN
Plan View
-

DRAWN: MZ	JOB NBR: 23325
SCALE: 1:1250@A3	
DATE: 17.06.2024	
DWG NO: DS-LOC-001	REV: -

11.1.2 Plan and 3D view drawings

Baseline scenario



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

- Existing Baseline
- Proposed
- Neighboring Property

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

NOTES:

All heights given in m AOD

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TITLE:

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DRAWING:

EXISTING BASELINE SCENARIO
Plan View
-

DRAWN: MZ	JOB NBR: 23325
SCALE: 1:1250@A3	
DATE: 17.06.2024	
DWG NO: EXI-BASE-001	REV: -



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

- Existing Baseline
- Proposed
- Neighboring Property

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
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NOTES:

All heights given in m AOD

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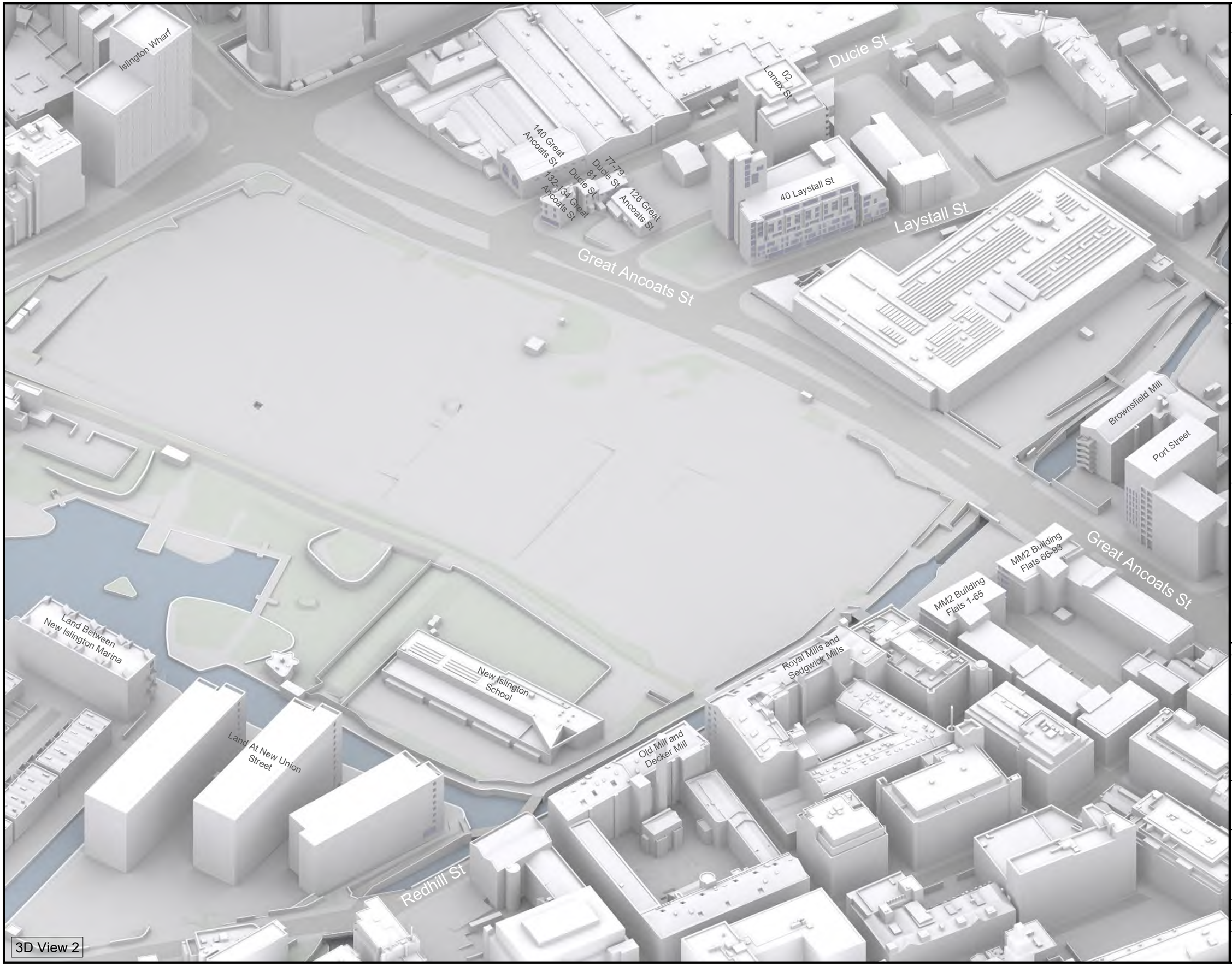
TITLE:

MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

EXISTING BASELINE SCENARIO
3D View
-

DRAWN: MZ	JOB NBR: 23325
SCALE: 1:1250@A3	
DATE: 17.06.2024	
DWG NO: EXI-BASE-002	REV: -



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

- Existing Baseline
- Proposed
- Neighboring Property

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

NOTES:

All heights given in m AOD

REV	Description	Drawn	Date

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TITLE:

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M4 6DJ

DRAWING:

EXISTING BASELINE SCENARIO
3D View
-

DRAWN: MZ	JOB NBR: 21.08.2023
SCALE: NTS	
DATE: 17.06.2024	
DWG NO: EXI-BASE-003	REV: -

Proposed Development scenario



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

- Existing Baseline
- Proposed
- Neighboring Property

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

-

REV	Description	Drawn	Date

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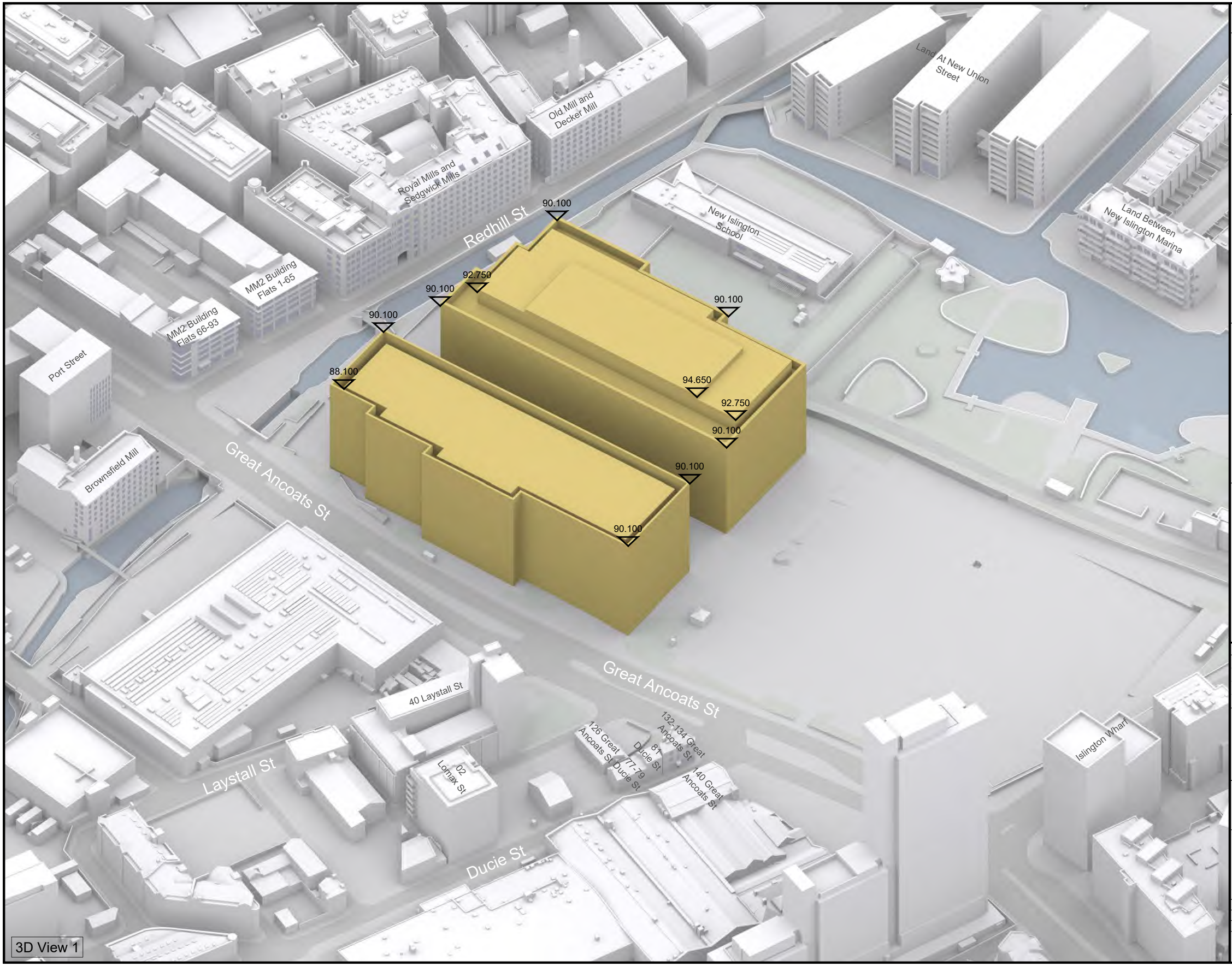
TITLE:

MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

PROPOSED SCENARIO
Plan View
Option 8

DRAWN: MZ	JOB NBR: 23325
SCALE: 1:1250@A3	
DATE: 17.06.2024	
DWG NO: PROP-001	REV: -



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

- Existing Baseline
- Proposed
- Neighboring Property

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

All heights given in m AOD

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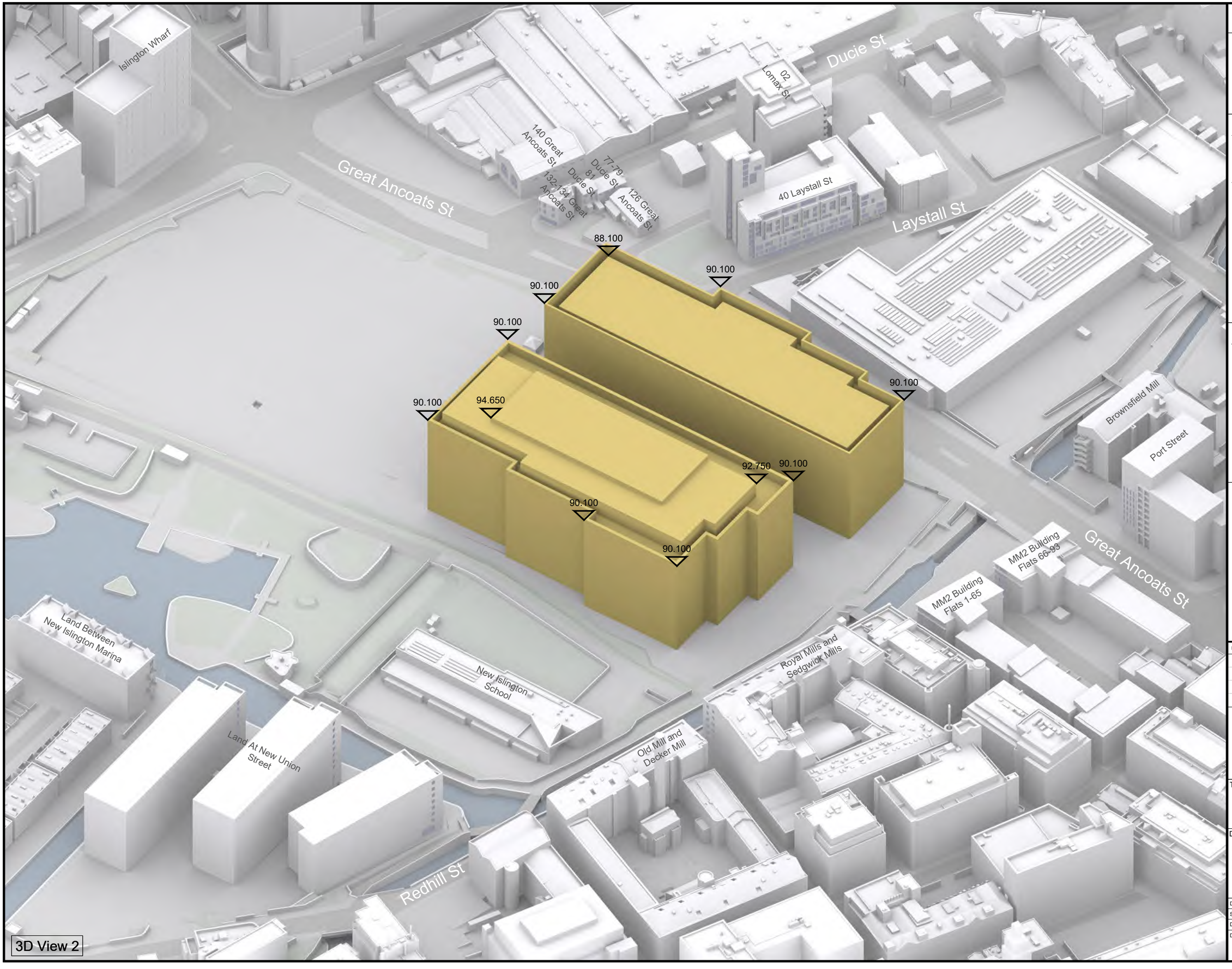
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MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

PROPOSED SCENARIO
3D View
Option 8

DRAWN: MZ	JOB NBR: 23325
SCALE: 1:1250@A3	
DATE: 17.06.2024	
DWG NO: PROP-002	REV: -



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

- Existing Baseline
- Proposed
- Neighboring Property

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

All heights given in m AOD

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M4 6DJ

DRAWING:

PROPOSED SCENARIO
3D View
Option 8

DRAWN: MZ	JOB NBR: 23325
SCALE: NTS	
DATE: 17.06.2024	
DWG NO: PROP-003	REV: -

Cumulative scenario



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

- Existing Baseline
- Proposed
- Neighboring Property

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

-

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London 020 7936 3668
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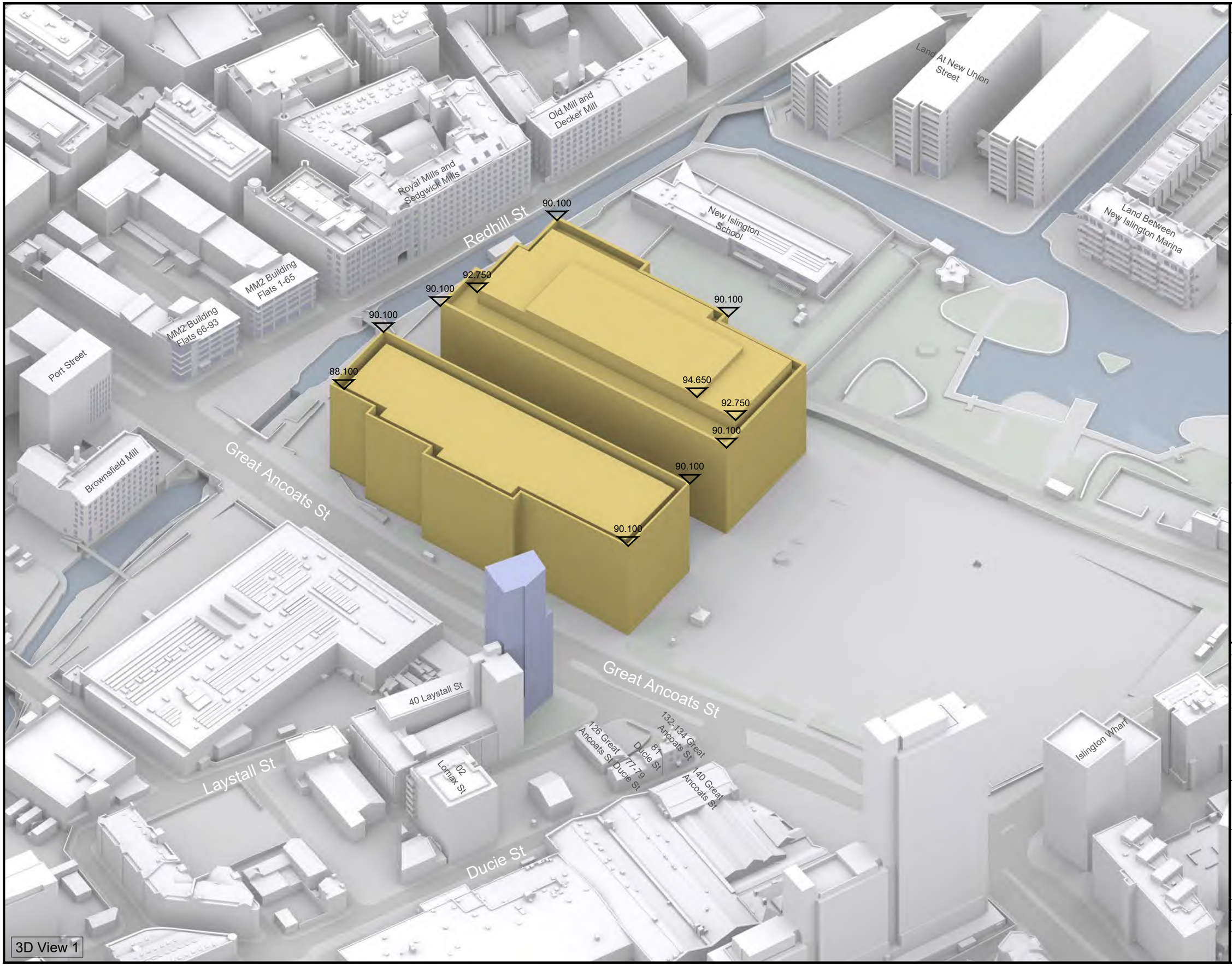
TITLE:

MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

PROPOSED SCENARIO
Plan View
Option 8

DRAWN: MZ	JOB NBR: 23325
SCALE: 1:1250@A3	
DATE: 20.06.2024	
DWG NO: CUMU-001	REV: -



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

- Existing Baseline
- Proposed
- Neighboring Property

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

All heights given in m AOD

REV	Description	Drawn	Date

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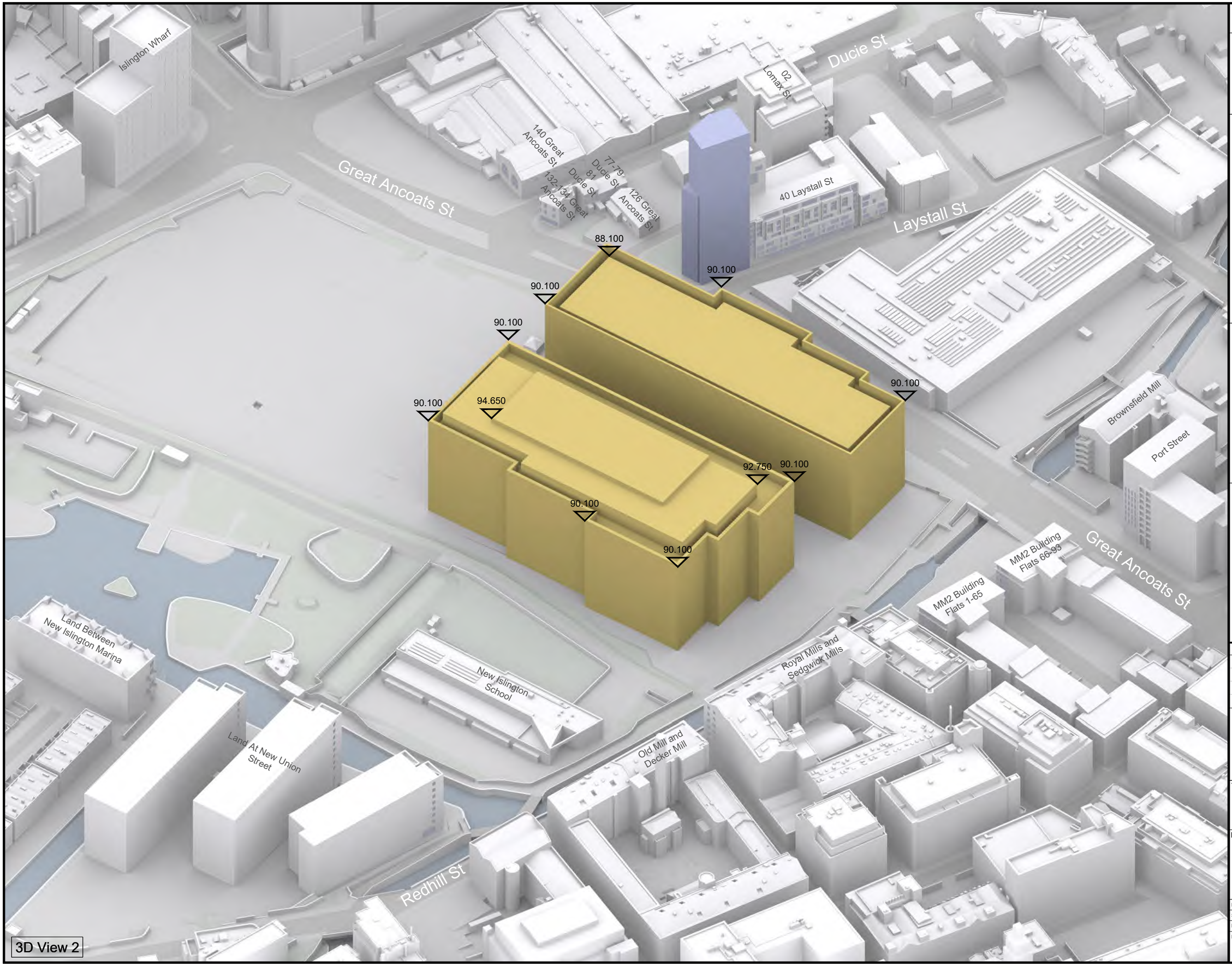
TITLE:

MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

PROPOSED SCENARIO
3D View
Option 8

DRAWN: MZ	JOB NBR: 23325
SCALE: 1:1250@A3	
DATE: 20.06.2024	
DWG NO: CUMU-002	REV: -



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

- Existing Baseline
- Proposed
- Neighboring Property

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

All heights given in m AOD

REV	Description	Drawn	Date

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MANCHESTER
M4 6DJ

DRAWING:

PROPOSED SCENARIO
3D View
Option 8

DRAWN: MZ	JOB NBR: 23325
SCALE: NTS	
DATE: 20.06.2024	
DWG NO: CUMU-003	REV: -

11.1.3 25-degree angle section drawings



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

- Historic Baseline
- Proposed
- Neighboring Property

SOURCE DATA:

Historic Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

All heights given in m AOD

REV	Description	Drawn	Date

London 020 7936 3668
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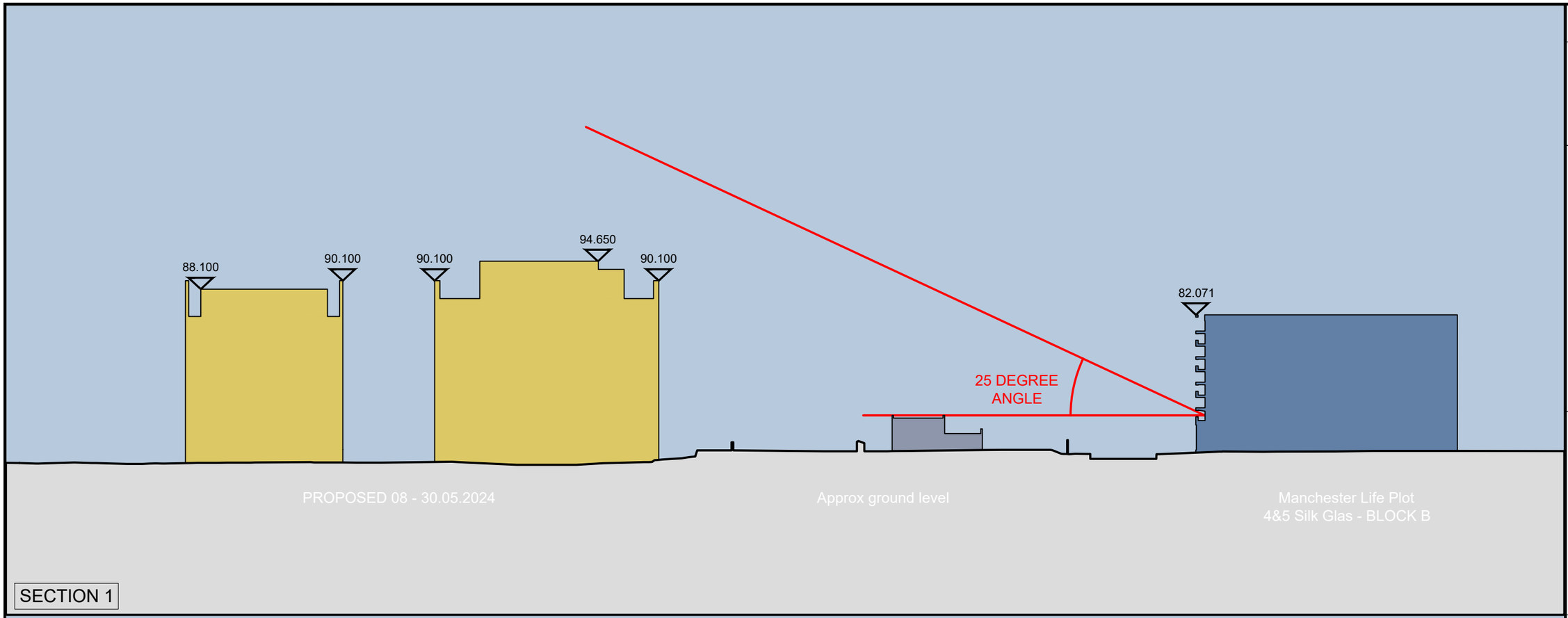
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MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

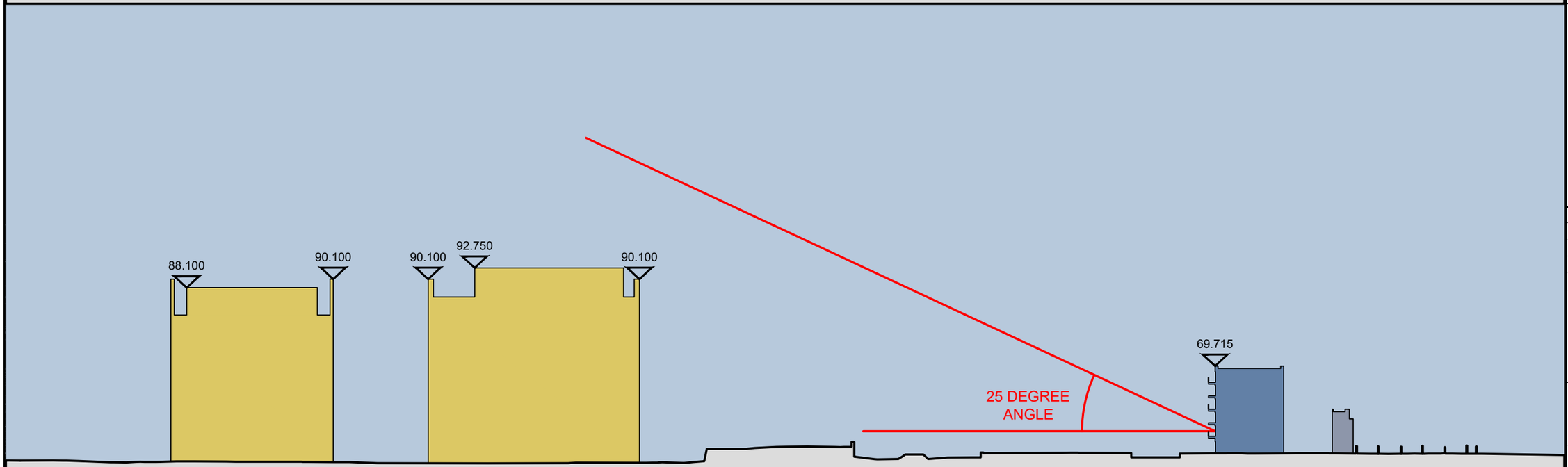
DRAWING:

PROPOSED SCENARIO
Plan View
Option 8

DRAWN: MZ	JOB NBR: 23325
SCALE: 1:1250@A3	
DATE: 19.06.2024	
DWG NO: PROP-001	REV: -



SECTION 1



SECTION 2

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

- Proposed
- Surrounding
- Neighbouring Property
- Site Boundary

SOURCE DATA:

Historic Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

All heights given in m AOD

REV	Description	Drawn	Date

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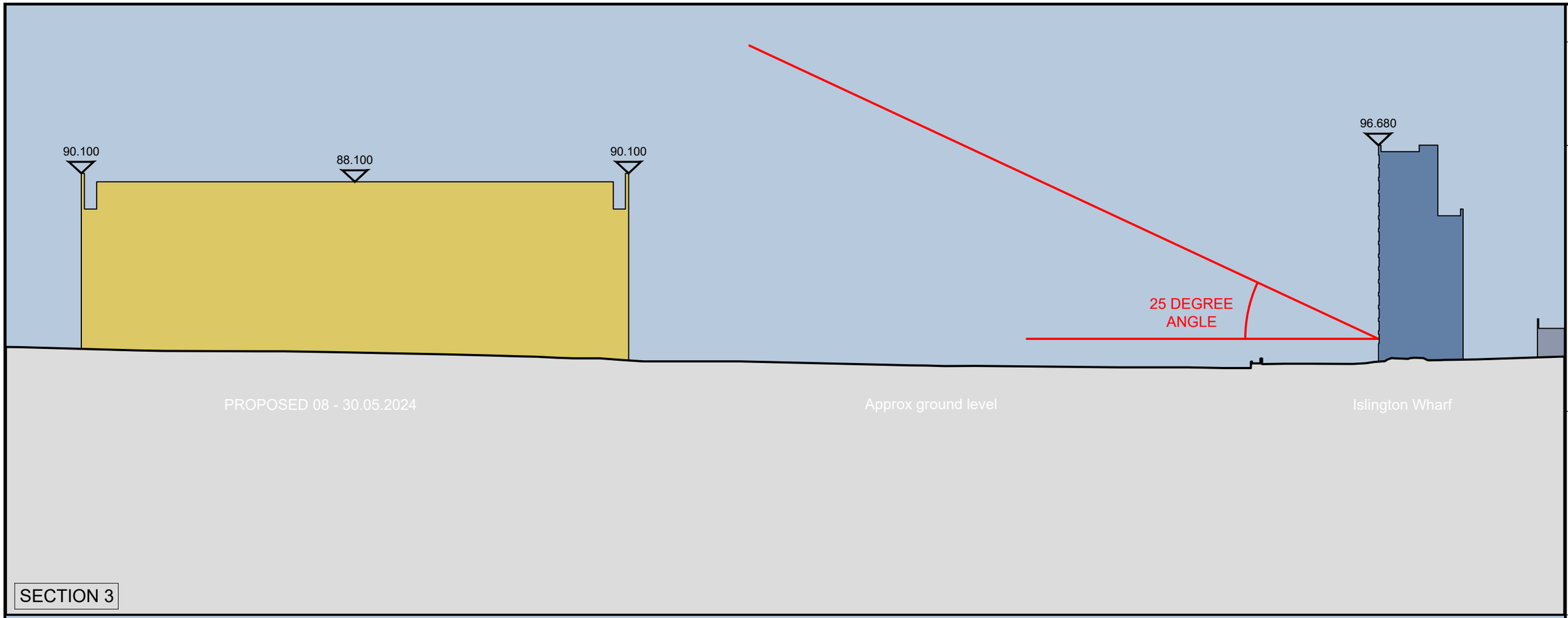
TITLE:

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MANCHESTER
M4 6DJ

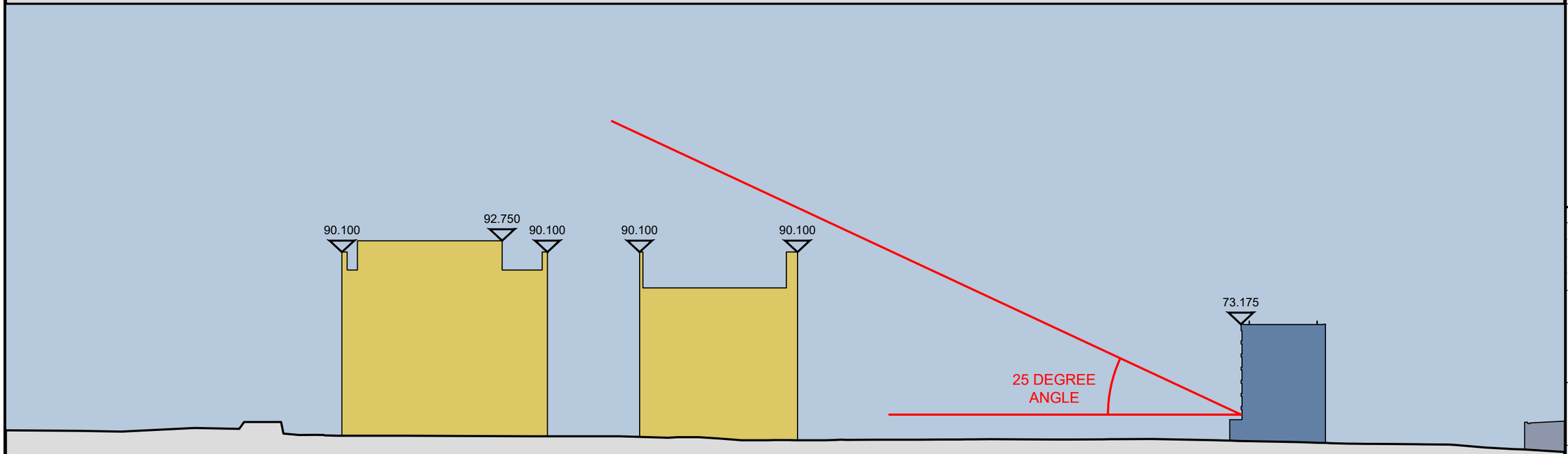
DRAWING:

25 DEGREE ANGLE STUDY
Section 1 and 2
Option 8

DRAWN: MZ	JOB NBR: 23325
SCALE: 1:1000@A3	
DATE: 19.06.2024	
DWG NO: 25-DEG-002	REV: -



SECTION 3



SECTION 4

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

- Proposed
- Surrounding
- Neighbouring Property
- Site Boundary

SOURCE DATA:

Historic Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
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NOTES:

All heights given in m AOD

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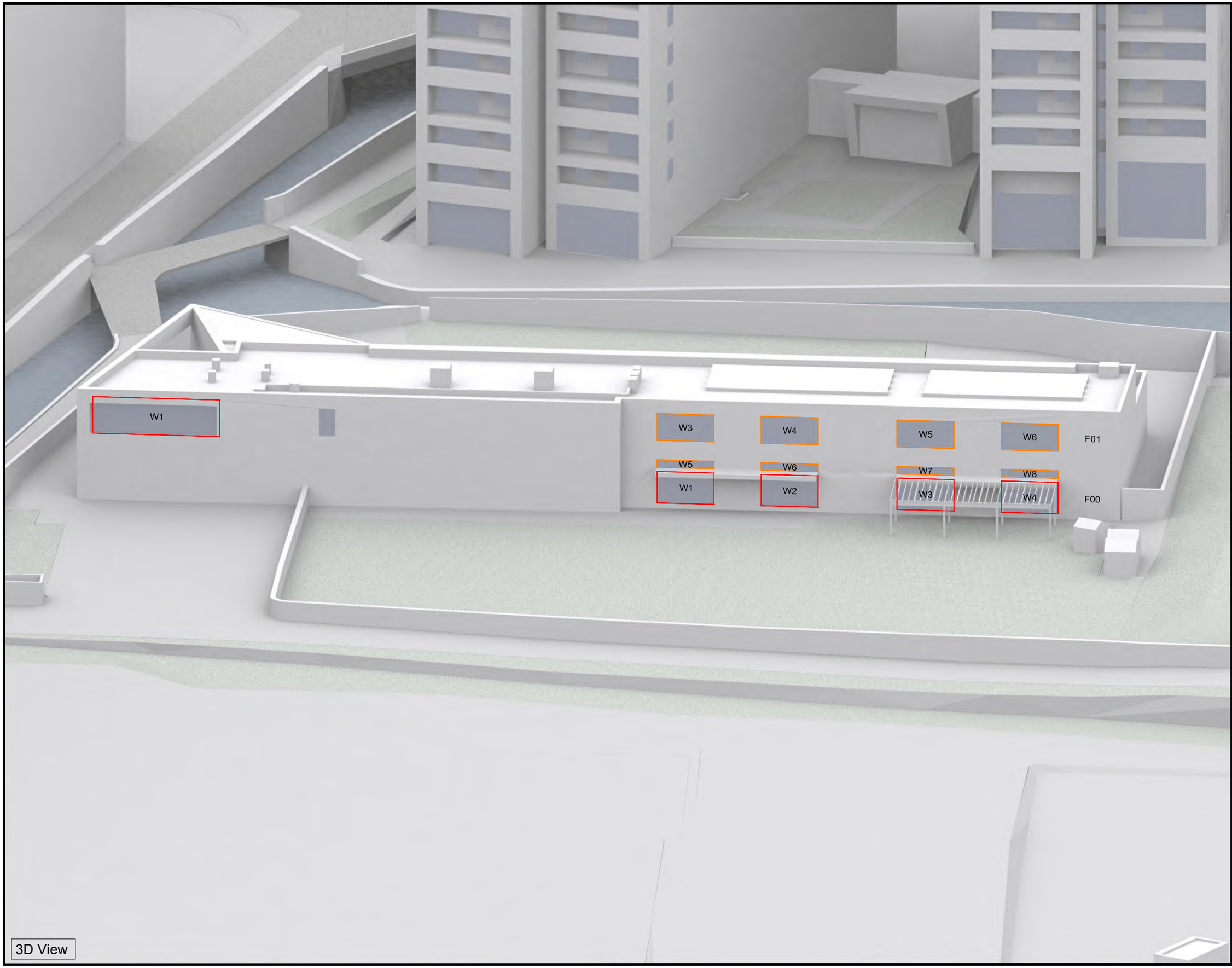
MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

25 DEGREE ANGLE STUDY
Section 3
Option 8

DRAWN: MZ	JOB NBR: 23325
SCALE: 1:1000@A3	
DATE: 19.06.2024	
DWG NO: 25-DEG-003	REV: -

11.1.4 Window location drawings for neighbouring buildings



3D View

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

VSC loss

- ≥ 0.8 xFV (≤ 20% loss) or VSC ≥ 27%
- < 0.8 xFV (> 20% loss)
- < 0.7 xFV (> 30% loss)
- < 0.6 xFV (> 40% loss)

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

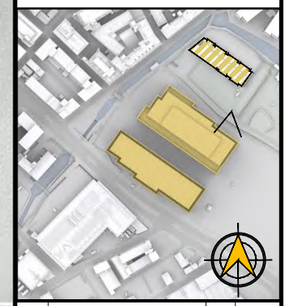
DPR 3D Model Survey received 12-07-2023:
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Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

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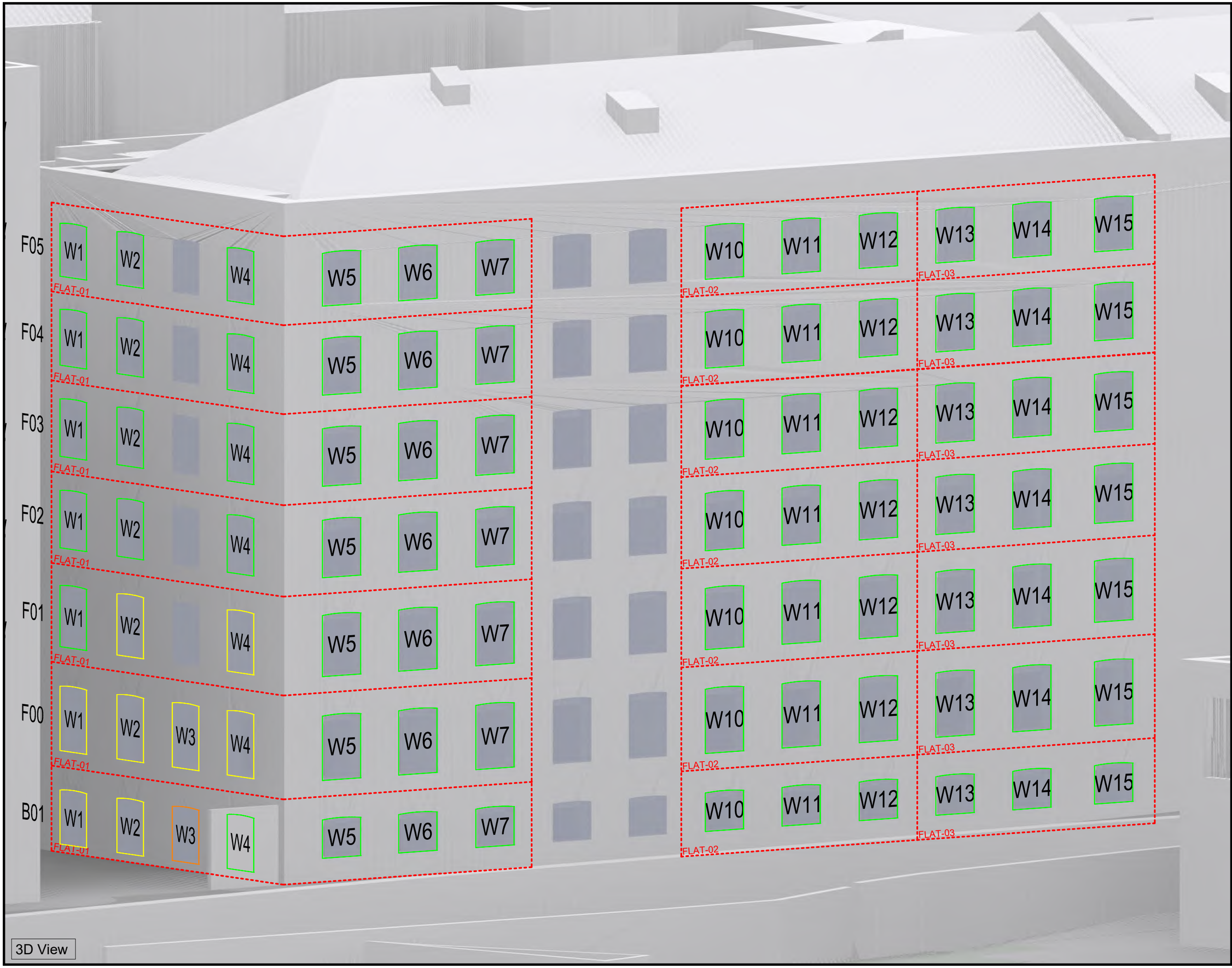
TITLE:

MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

KEY WINDOW LOCATIONS
3D View
New Islington School-

DRAWN: MZ	JOB NBR: 23325
SCALE: NTS	
DATE: 17.06.2024	
DWG NO: LOC-VSC-001	REV: -



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

VSC loss

- ≥ 0.8 xFV (≤ 20% loss) or VSC ≥ 27%
- < 0.8 xFV (> 20% loss)
- < 0.7 xFV (> 30% loss)
- < 0.6 xFV (> 40% loss)

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

-



REV	Description	Drawn	Date

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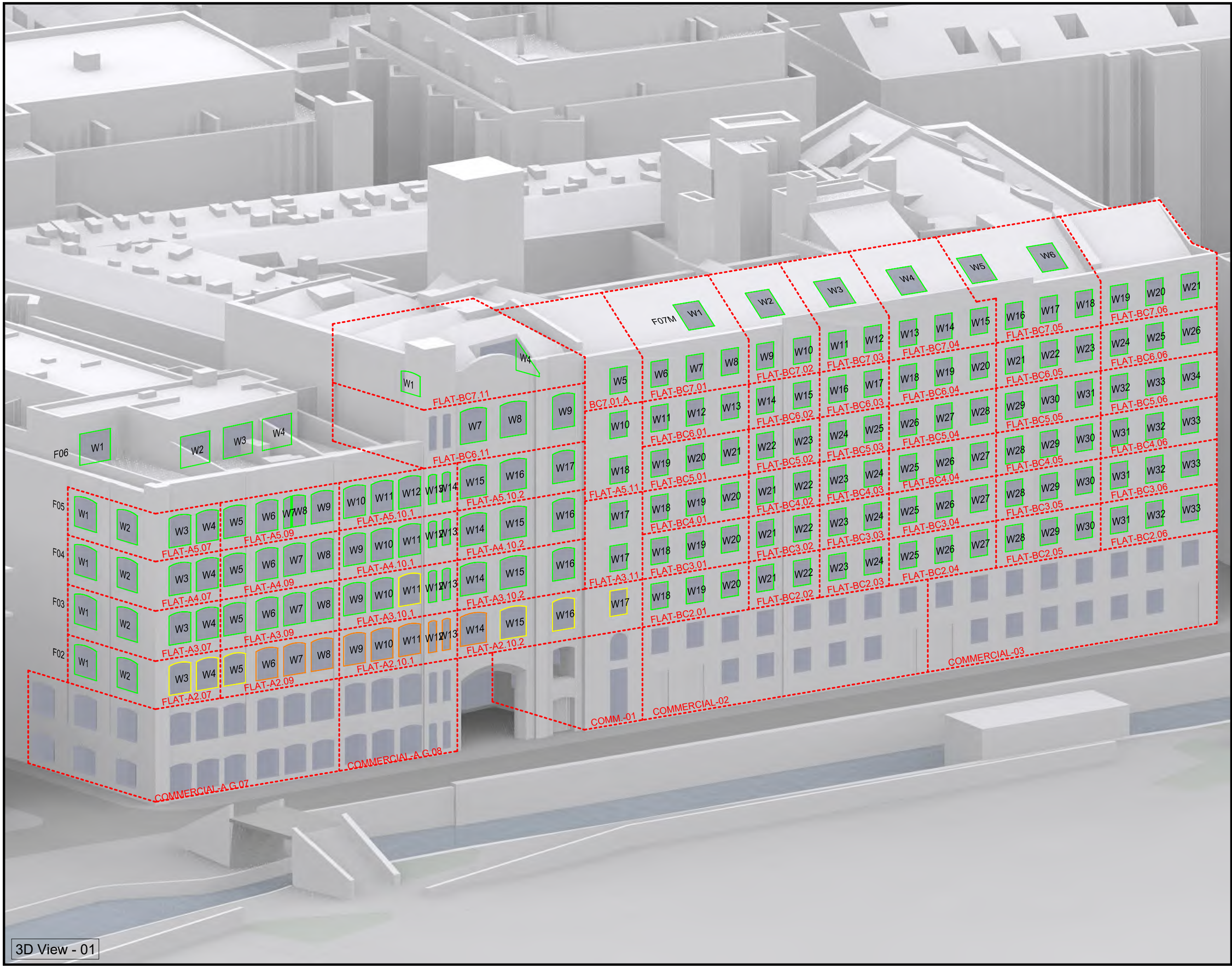
TITLE:

MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

KEY WINDOW LOCATIONS
3D View
Old Mill and Decker Mill

DRAWN: MZ	JOB NBR: 23325
SCALE: NTS	
DATE: 17.06.2024	
DWG NO: LOC-VSC-002	REV: -



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

VSC loss

- ≥ 0.8 xFV (≤ 20% loss) or VSC ≥ 27%
- < 0.8 xFV (> 20% loss)
- < 0.7 xFV (> 30% loss)
- < 0.6 xFV (> 40% loss)

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

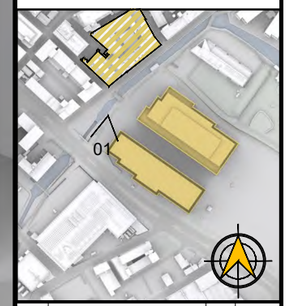
DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

-



REV	Description	Drawn	Date

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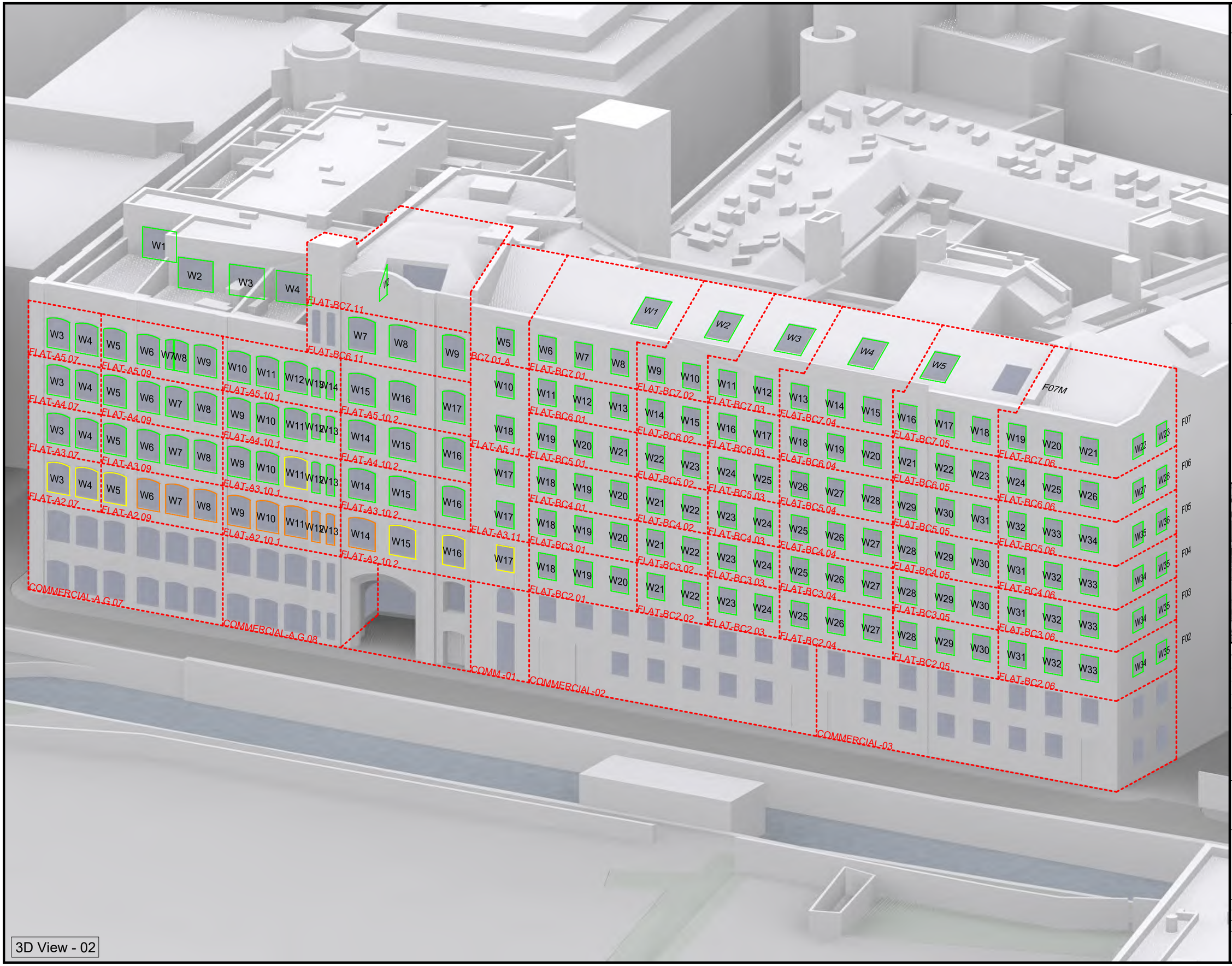
TITLE:

MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

KEY WINDOW LOCATIONS
3D View
Royal Mills and Sedgwick Mills

DRAWN: MZ	JOB NBR: 23325
SCALE: NTS	
DATE: 17.06.2024	
DWG NO: LOC-VSC-003-01	REV: -



3D View - 02

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

VSC loss

- ≥ 0.8 xFV (≤ 20% loss) or VSC ≥ 27%
- < 0.8 xFV (> 20% loss)
- < 0.7 xFV (> 30% loss)
- < 0.6 xFV (> 40% loss)

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

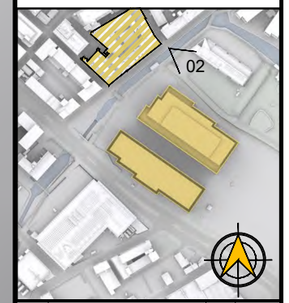
DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

-



REV	Description	Drawn	Date

London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

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info@delvapatmanredler.co.uk

TITLE:

MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

KEY WINDOW LOCATIONS
3D View
Royal Mills and Sedgwick Mills

DRAWN: MZ	JOB NBR: 23325
SCALE: NTS	
DATE: 17.06.2024	
DWG NO: LOC-VSC-003-02	REV: -



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

VSC loss

- ≥ 0.8 xFV (≤ 20% loss) or VSC ≥ 27%
- < 0.8 xFV (> 20% loss)
- < 0.7 xFV (> 30% loss)
- < 0.6 xFV (> 40% loss)

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

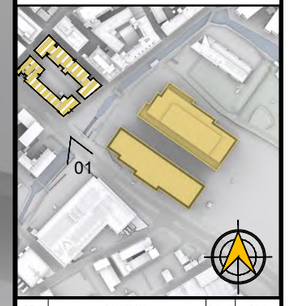
DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

-



REV	Description	Drawn	Date

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Liverpool 0151 242 0980
Bristol 0117 450 9703

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TITLE:

MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

KEY WINDOW LOCATIONS
3D View
MM2 Building Flats 1-65
MM2 Building Flats 66-93

DRAWN: MZ	JOB NBR: 23325
SCALE: NTS	
DATE: 17.06.2024	
DWG NO: LOC-VSC-004-01	REV: -



NO DIMENSIONS TO BE SCALED
FROM THIS DRAWING

KEY:

VSC loss

- ≥ 0.8 xFV (≤ 20% loss) or VSC ≥ 27%
- < 0.8 xFV (> 20% loss)
- < 0.7 xFV (> 30% loss)
- < 0.6 xFV (> 40% loss)

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

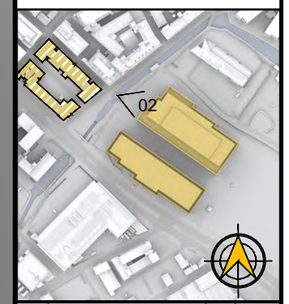
DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

-



REV	Description	Drawn	Date

London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

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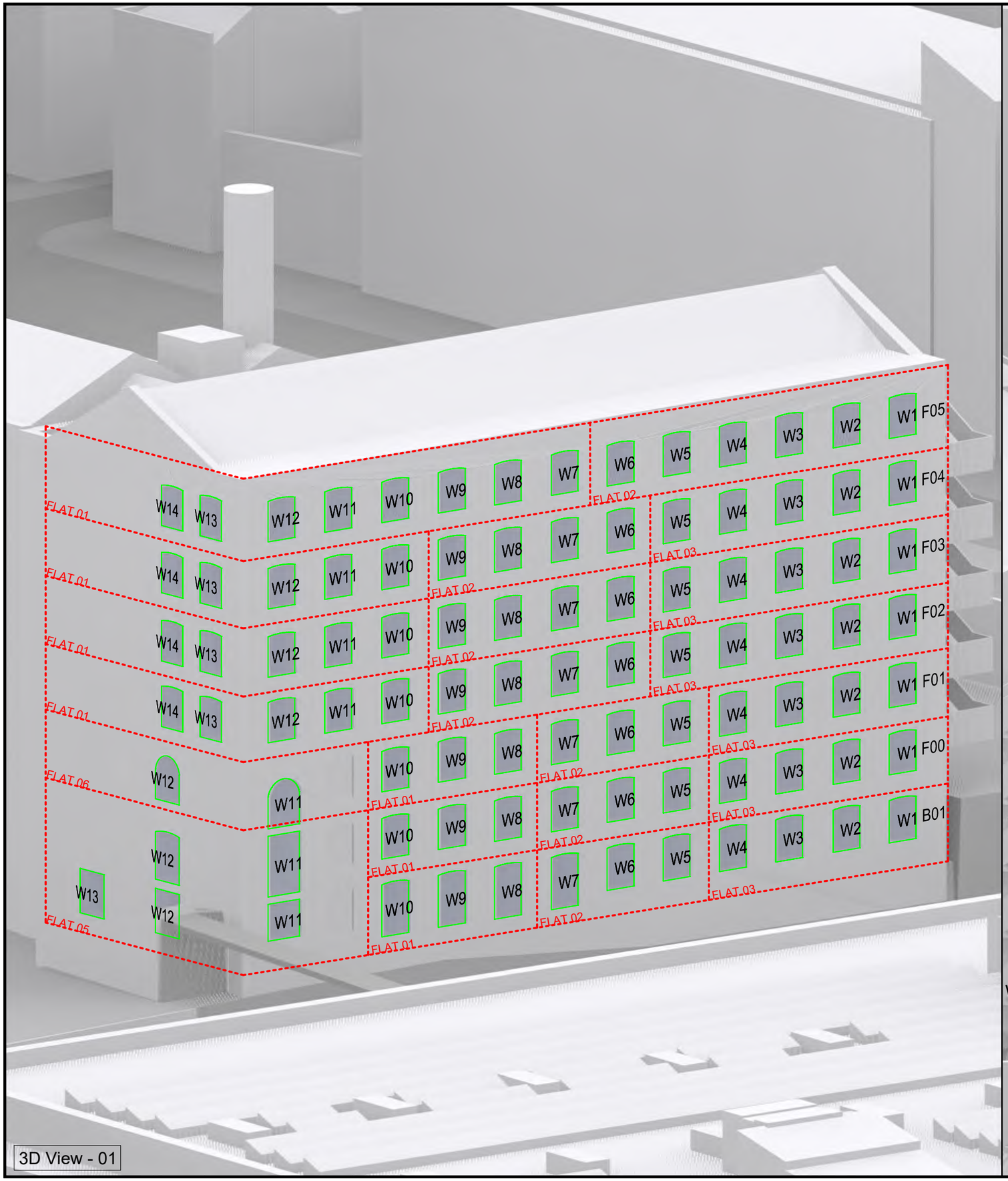
TITLE:

MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

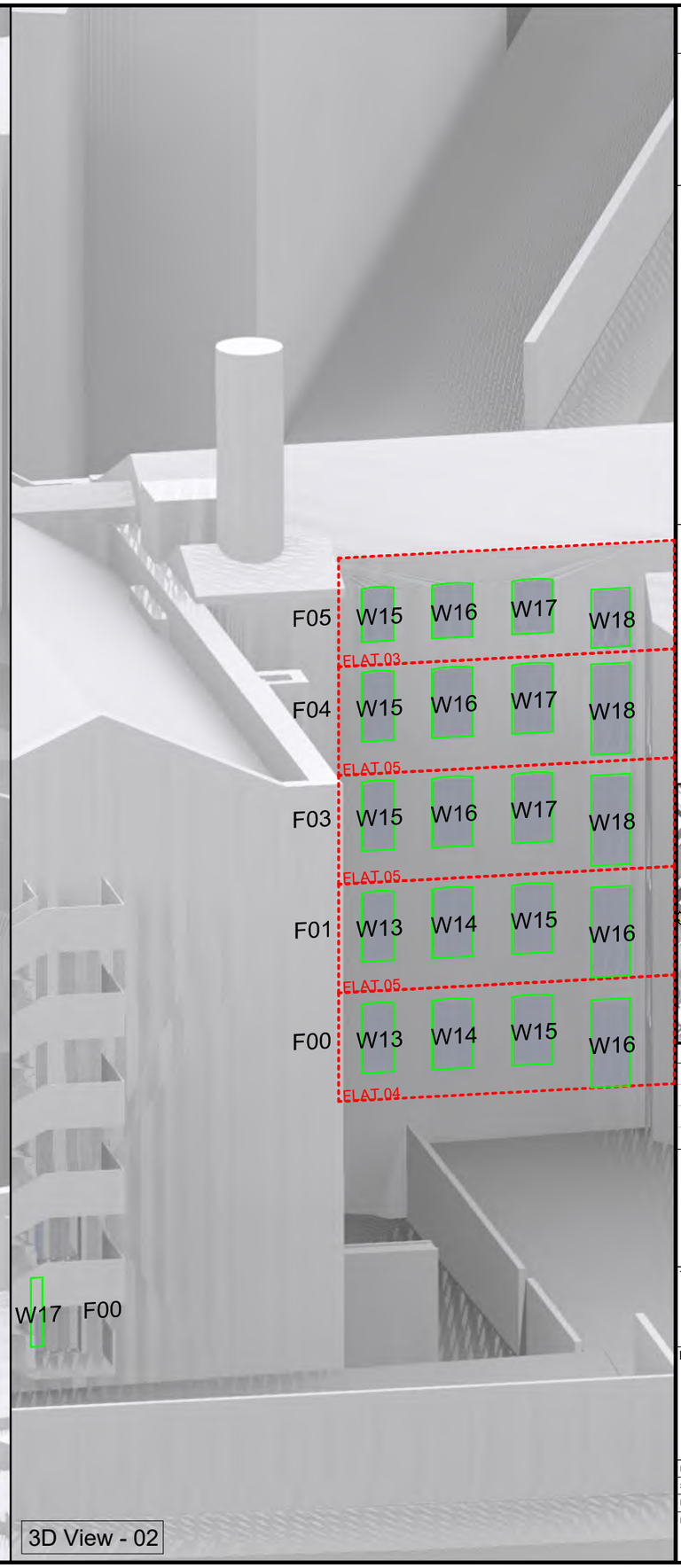
DRAWING:

KEY WINDOW LOCATIONS
3D View
MM2 Building Flats 1-65
MM2 Building Flats 66-93

DRAWN: MZ	JOB NBR: 23325
SCALE: NTS	
DATE: 17.06.2024	
DWG NO: LOC-VSC-004-02	REV: -



3D View - 01



3D View - 02

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

VSC loss

- ≥ 0.8 xFV (≤ 20% loss) or VSC ≥ 27%
- < 0.8 xFV (> 20% loss)
- < 0.7 xFV (> 30% loss)
- < 0.6 xFV (> 40% loss)

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

-



REV	Description	Drawn	Date

London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

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info@delvapatmanredler.co.uk

TITLE:

MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

KEY WINDOW LOCATIONS
3D View
Brownsfield Mill

DRAWN: MZ	JOB NBR: 23325
SCALE: NTS	
DATE: 17.06.2024	
DWG NO: LOC-VSC-005	REV: -



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

VSC loss

- ≥ 0.8 xFV (≤ 20% loss) or VSC ≥ 27%
- < 0.8 xFV (> 20% loss)
- < 0.7 xFV (> 30% loss)
- < 0.6 xFV (> 40% loss)

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

-



REV	Description	Drawn	Date

London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

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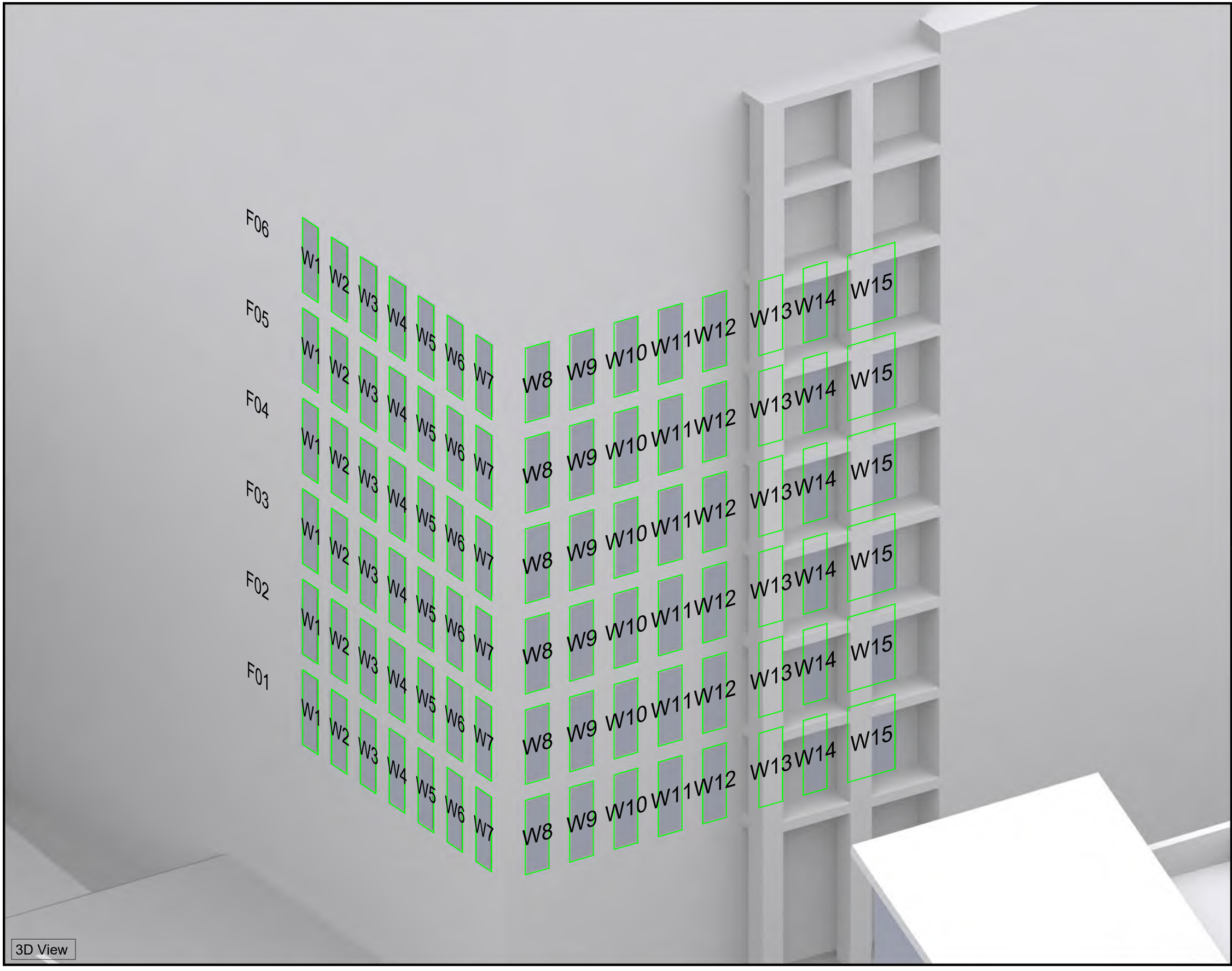
TITLE:

MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

KEY WINDOW LOCATIONS
3D View
40 Laystall St

DRAWN: MZ	JOB NBR: 23325
SCALE: NTS	
DATE: 17.06.2024	
DWG NO: LOC-VSC-006	REV: -



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

VSC loss

- ≥ 0.8 xFV (≤ 20% loss) or VSC ≥ 27%
- < 0.8 xFV (> 20% loss)
- < 0.7 xFV (> 30% loss)
- < 0.6 xFV (> 40% loss)

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

-



REV	Description	Drawn	Date

DELVA PATMAN REDLER

London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

www.delvapatmanredler.co.uk
info@delvapatmanredler.co.uk

TITLE:

MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

KEY WINDOW LOCATIONS
3D View
Port Street

DRAWN: MZ	JOB NBR: 23325
SCALE: NTS	
DATE: 17.06.2024	
DWG NO: LOC-VSC-007	REV: -

11.1.5 Daylight and sunlight results tables

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% rm)	Prop. (% rm)	Loss (m^2)	Pro./Ex. ratio	Annual (%APSH) Exis.	Prop.	Loss	Pro./Ex.	Winter (%APSH) Exis.	Prop.	Pro./Ex.
Note: Red = outside BRE guidelines; Blue = gain in light																			
New Islington School																			
F00	R1	Class Room	W1	↙	17.5	4.6	12.9	0.26											
		Class Room	W5	↙	35.7	23.4	12.3	0.66	99%	45%	33.92	0.46	76	59	N/A	N/A	26	12	N/A
	R2	Class Room	W2	↙	17.7	4.6	13.1	0.26											
		Class Room	W6	↙	36.2	23.7	12.5	0.65	97%	48%	30.80	0.50	76	58	N/A	N/A	26	12	N/A
	R3	Class Room	W3	↙	9.1	1.4	7.7	0.15											
		Class Room	W7	↙	36.3	23.8	12.5	0.66	99%	48%	32.44	0.48	77	59	N/A	N/A	27	13	N/A
	R4	Class Room	W4	↙	9.3	2.1	7.2	0.23											
		Class Room	W8	↙	36.4	24.1	12.3	0.66	96%	42%	34.60	0.43	77	59	N/A	N/A	27	13	N/A
F01	R1	Class Room	W1	↙	17.2	9.5	7.7	0.55	100%	100%	0.00	1.00	31.4	19.6	11.8	0.62	18.4	6.6	N/A
	R3	Class Room	W3	↙	36.3	24.7	11.6	0.68	100%	43%	35.48	0.44	73	56	N/A	N/A	24	10	N/A
	R4	Class Room	W4	↙	36.5	24.7	11.8	0.68	99%	49%	31.61	0.50	74	57	N/A	N/A	24	10	N/A
	R5	Class Room	W5	↙	36.6	24.8	11.8	0.68	100%	44%	34.80	0.45	75	58	N/A	N/A	25	11	N/A
	R6	Class Room	W6	↙	36.6	25.1	11.5	0.69	99%	44%	34.97	0.44	75	58	N/A	N/A	25	11	N/A
Old Mill and Decker Mill																			
B01	R1	LKD	W1	↙	5.9	4.3	1.6	0.73											
		LKD	W2	↙	7.9	5.5	2.4	0.70	23%	7%	4.64	0.31	27	20	7	0.74	13	6	N/A
	R2	Bedroom	W3	↙	10.9	7.5	3.4	0.69											
		Bedroom	W4	↙	13.2	11.4	1.8	0.86											
		Bedroom	W5	↘	35.6	30.0	N/A	N/A	95%	89%	1.04	0.94	73	64	N/A	N/A	26	17	N/A
	R3	Bedroom	W6	↘	35.5	30.1	N/A	N/A											
		Bedroom	W7	↘	35.2	30.1	N/A	N/A	94%	94%	0.00	1.00	73	63	N/A	N/A	26	16	N/A
	R5	Bedroom	W10	↘	34.2	29.8	N/A	N/A	93%	93%	0.00	1.00	72	64	N/A	N/A	25	17	N/A
	R6	Bedroom	W11	↘	34.0	29.8	N/A	N/A											
		Bedroom	W12	↘	33.8	30.0	N/A	N/A	95%	95%	0.00	1.00	72	65	N/A	N/A	25	18	N/A
	R7	Bedroom	W13	↘	33.8	30.2	N/A	N/A	94%	94%	0.00	1.00	70	64	N/A	N/A	25	19	N/A
	R8	Bedroom	W14	↘	33.8	30.5	N/A	N/A											
		Bedroom	W15	↘	33.8	30.8	N/A	N/A	91%	91%	0.00	1.00	71	65	N/A	N/A	26	20	N/A
F00	R1	LKD	W1	↙	6.5	5.1	1.4	0.78											
		LKD	W2	↙	8.5	6.3	2.2	0.74	35%	21%	4.61	0.59	27	20	7	0.74	13	6	N/A
	R2	Bedroom	W3	↙	11.7	8.4	3.3	0.72											
		Bedroom	W4	↙	16.3	12.4	3.9	0.76											
		Bedroom	W5	↘	36.4	31.2	N/A	N/A	98%	96%	0.25	0.99	74	66	N/A	N/A	26	18	N/A
	R3	Bedroom	W6	↘	36.3	31.4	N/A	N/A											
		Bedroom	W7	↘	36.2	31.4	N/A	N/A	98%	98%	0.00	1.00	73	64	N/A	N/A	26	17	N/A
	R5	LD	W10	↘	35.6	31.5	N/A	N/A											
		LD	W11	↘	35.5	31.6	N/A	N/A											
		LD	W12	↘	35.4	31.8	N/A	N/A	98%	97%	0.30	0.99	72	65	N/A	N/A	25	18	N/A
	R6	LD	W13	↘	35.3	31.9	N/A	N/A											
		LD	W14	↘	35.3	32.1	N/A	N/A											
		LD	W15	↘	35.3	32.2	N/A	N/A	97%	97%	0.00	1.00	74	68	N/A	N/A	27	21	N/A
F01	R1	LKD	W1	↙	7.5	6.2	1.3	0.83											
		LKD	W2	↙	9.5	7.4	2.1	0.78	33%	21%	3.83	0.64	27	20	7	0.74	13	6	N/A
	R3	Bedroom	W4	↙	17.1	13.6	3.5	0.80											
		Bedroom	W5	↘	37.1	32.3	N/A	N/A	97%	97%	0.00	1.00	75	67	N/A	N/A	27	19	N/A
	R4	Bedroom	W6	↘	37.0	32.5	N/A	N/A											
		Bedroom	W7	↘	37.0	32.7	N/A	N/A	99%	99%	0.00	1.00	75	68	N/A	N/A	27	20	N/A
	R6	Bedroom	W10	↘	36.8	33.1	N/A	N/A	96%	96%	0.00	1.00	75	68	N/A	N/A	27	20	N/A
	R7	Bedroom	W11	↘	36.8	33.2	N/A	N/A											
		Bedroom	W12	↘	36.7	33.3	N/A	N/A	98%	98%	0.00	1.00	76	68	N/A	N/A	28	20	N/A
	R8	Bedroom	W13	↘	36.7	33.4	N/A	N/A											
		Bedroom	W14	↘	36.6	33.5	N/A	N/A	98%	98%	0.00	1.00	75	69	N/A	N/A	27	21	N/A
	R9	Bedroom	W15	↘	36.5	33.6	N/A	N/A	97%	97%	0.00	1.00	75	69	N/A	N/A	27	21	N/A
F02	R1	LKD	W1	↙	8.9	7.7	1.2	0.87											
		LKD	W2	↙	10.8	9.0	1.8	0.83	35%	23%	3.82	0.66	29	24	5	0.83	13	8	N/A
	R3	Bedroom	W4	↙	18.2	15.0	3.2	0.82											
		Bedroom	W5	↘	37.4	33.0	N/A	N/A	97%	97%	0.00	1.00	75	68	N/A	N/A	27	20	N/A
	R4	Bedroom	W6	↘	37.4	33.2	N/A	N/A											
		Bedroom	W7	↘	37.3	33.4	N/A	N/A	99%	99%	0.00	1.00	76	68	N/A	N/A	28	20	N/A

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% rm)	Prop. (% rm)	Loss (m^2)	Pro./Ex. ratio	Annual (%APSH) Exis.	Prop.	Loss	Pro./Ex.	Winter (%APSH) Exis.	Prop.	Pro./Ex.
	R6	Bedroom	W10	↘	37.2	33.8	N/A	N/A	96%	96%	0.00	1.00	76	69	N/A	N/A	28	21	N/A
	R7	Bedroom	W11	↘	37.2	34.0	N/A	N/A											
		Bedroom	W12	↘	37.1	34.1	N/A	N/A	98%	98%	0.00	1.00	76	70	N/A	N/A	28	22	N/A
	R8	Bedroom	W13	↘	37.1	34.2	N/A	N/A											
		Bedroom	W14	↘	37.0	34.2	N/A	N/A	98%	98%	0.00	1.00	75	71	N/A	N/A	27	23	N/A
	R9	Bedroom	W15	↘	37.0	34.3	N/A	N/A	96%	96%	0.00	1.00	75	70	N/A	N/A	27	22	N/A
F03	R1	LKD	W1	↙	10.9	9.9	1.0	0.91											
		LKD	W2	↙	12.7	11.0	1.7	0.87	38%	29%	2.78	0.77	31	25	N/A	N/A	14	8	N/A
	R3	Bedroom	W4	↙	19.7	16.8	2.9	0.85											
		Bedroom	W5	↘	37.7	33.7	N/A	N/A	97%	97%	0.00	1.00	77	72	N/A	N/A	27	22	N/A
	R4	Bedroom	W6	↘	37.7	33.9	N/A	N/A											
		Bedroom	W7	↘	37.6	34.1	N/A	N/A	99%	99%	0.00	1.00	78	71	N/A	N/A	28	21	N/A
	R6	Bedroom	W10	↘	37.5	34.5	N/A	N/A	96%	96%	0.00	1.00	77	71	N/A	N/A	28	22	N/A
	R7	Bedroom	W11	↘	37.5	34.6	N/A	N/A											
		Bedroom	W12	↘	37.5	34.7	N/A	N/A	98%	98%	0.00	1.00	77	72	N/A	N/A	28	23	N/A
	R8	Bedroom	W13	↘	37.4	34.8	N/A	N/A											
		Bedroom	W14	↘	37.4	34.9	N/A	N/A	98%	98%	0.00	1.00	75	72	N/A	N/A	27	24	N/A
	R9	Bedroom	W15	↘	37.3	34.9	N/A	N/A	96%	96%	0.00	1.00	75	72	N/A	N/A	27	24	N/A
F04	R1	LKD	W1	↙	14.1	13.1	1.0	0.93											
		LKD	W2	↙	15.6	14.1	1.5	0.90	41%	33%	2.53	0.81	37	33	N/A	N/A	14	10	N/A
	R3	Bedroom	W4	↙	21.9	19.3	2.6	0.88											
		Bedroom	W5	↘	38.0	34.4	N/A	N/A	97%	97%	0.00	1.00	79	74	N/A	N/A	28	23	N/A
	R4	Bedroom	W6	↘	37.9	34.6	N/A	N/A											
		Bedroom	W7	↘	37.9	34.7	N/A	N/A	99%	99%	0.00	1.00	78	72	N/A	N/A	28	22	N/A
	R6	Bedroom	W10	↘	37.8	35.1	N/A	N/A	97%	97%	0.00	1.00	77	72	N/A	N/A	28	23	N/A
	R7	Bedroom	W11	↘	37.8	35.2	N/A	N/A											
		Bedroom	W12	↘	37.8	35.3	N/A	N/A	99%	99%	0.00	1.00	77	73	N/A	N/A	28	24	N/A
	R8	Bedroom	W13	↘	37.8	35.4	N/A	N/A											
		Bedroom	W14	↘	37.7	35.5	N/A	N/A	98%	98%	0.00	1.00	76	73	N/A	N/A	27	24	N/A
	R9	Bedroom	W15	↘	37.7	35.5	N/A	N/A	97%	97%	0.00	1.00	76	73	N/A	N/A	27	24	N/A
F05	R1	LKD	W1	↙	18.7	17.8	0.9	0.95											
		LKD	W2	↙	19.8	18.5	1.3	0.93	55%	48%	1.89	0.88	44	40	N/A	N/A	15	11	N/A
	R3	Bedroom	W4	↙	25.1	22.7	2.4	0.90											
		Bedroom	W5	↘	38.2	35.1	N/A	N/A	97%	97%	0.00	1.00	82	78	N/A	N/A	28	24	N/A
	R4	Bedroom	W6	↘	38.2	35.2	N/A	N/A											
		Bedroom	W7	↘	38.1	35.3	N/A	N/A	99%	99%	0.00	1.00	78	73	N/A	N/A	28	23	N/A
	R6	Bedroom	W10	↘	38.1	35.7	N/A	N/A	96%	96%	0.00	1.00	77	74	N/A	N/A	28	25	N/A
	R7	Bedroom	W11	↘	38.1	35.8	N/A	N/A											
		Bedroom	W12	↘	38.1	35.9	N/A	N/A	99%	99%	0.00	1.00	77	74	N/A	N/A	28	25	N/A
	R8	Bedroom	W13	↘	38.0	35.9	N/A	N/A											
		Bedroom	W14	↘	38.0	36.0	N/A	N/A	98%	98%	0.00	1.00	76	75	N/A	N/A	27	26	N/A
	R9	Bedroom	W15	↘	38.0	36.1	N/A	N/A	97%	97%	0.00	1.00	77	75	N/A	N/A	28	26	N/A
Royal Mills and Sedgwick Mills																			
F02	R1	Bedroom	W1	↙	23.9	22.1	1.8	0.92	92%	92%	0.02	1.00	50	46	N/A	N/A	19	15	N/A
	R2	LKD	W2	↙	28.6	26.4	2.2	0.92											
		LKD	W3	↘	37.0	25.9	11.1	0.70											
		LKD	W4	↘	37.4	26.2	11.2	0.70	100%	87%	5.26	0.87	82	67	N/A	N/A	27	18	N/A
	R3	LKD	W5	↘	37.3	26.0	11.3	0.70											
		LKD	W6	↘	37.3	25.9	11.4	0.69	94%	58%	13.45	0.62	74	57	N/A	N/A	25	12	N/A
	R4	Bedroom	W7	↘	37.5	25.9	11.6	0.69	100%	79%	2.41	0.79	76	56	N/A	N/A	26	11	N/A
	R5	Bedroom	W8	↘	37.3	25.8	11.5	0.69	83%	32%	8.72	0.39	76	56	N/A	N/A	26	11	N/A
	R6	Bedroom	W9	↘	37.3	25.7	11.6	0.69	83%	28%	9.83	0.34	73	54	N/A	N/A	25	11	N/A
	R7	Bedroom	W10	↘	37.4	25.8	11.6	0.69	100%	59%	5.27	0.59	77	58	N/A	N/A	27	13	N/A
	R8	LKD	W11	↘	36.9	25.3	11.6	0.69											
		LKD	W12	↘	37.5	25.8	11.7	0.69											
		LKD	W13	↘	37.5	25.9	11.6	0.69	98%	46%	15.60	0.47	77	58	N/A	N/A	27	13	N/A
	R9	LKD	W14	↘	37.2	25.7	11.5	0.69											
		LKD	W15	↘	37.2	25.9	11.3	0.70	99%	55%	27.18	0.56	76	57	N/A	N/A	27	11	N/A
	R10	Bedroom	W16	↘	36.8	25.8	11.0	0.70	97%	64%	5.99	0.66	72	54	N/A	N/A	25	10	N/A
	R11	Bedroom	W17	↘	37.5	26.8	10.7	0.71	96%	42%	11.82	0.44	78	61	N/A	N/A	28	14	N/A

Ratio: N/A or ≥0.8 = inside BRE (N/A* satisfies 4% APSH criterion); N/R = not required

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% rm)	Prop. (% rm)	Loss (m^2)	Pro./Ex. ratio	Annual (%APSH) Exis.	Prop.	Loss	Pro./Ex.	Winter (%APSH) Exis.	Prop.	Pro./Ex.
	R12	Bedroom	W18	↘	37.4	27.2	N/A	N/A	96%	46%	6.25	0.49	78	62	N/A	N/A	28	14	N/A
	R13	LKD	W19	↘	37.4	27.6	N/A	N/A											
		LKD	W20	↘	37.4	28.0	N/A	N/A	98%	62%	12.88	0.63	78	65	N/A	N/A	28	16	N/A
	R14	LKD	W21	↘	37.4	28.2	N/A	N/A											
		LKD	W22	↘	37.5	28.5	N/A	N/A	99%	60%	15.35	0.60	78	65	N/A	N/A	28	16	N/A
	R15	LKD	W23	↘	37.4	28.8	N/A	N/A											
		LKD	W24	↘	37.4	29.1	N/A	N/A	98%	79%	7.92	0.80	78	65	N/A	N/A	28	15	N/A
	R16	LKD	W25	↘	37.4	29.4	N/A	N/A											
		LKD	W26	↘	37.4	29.6	N/A	N/A	99%	89%	2.83	0.90	78	65	N/A	N/A	28	15	N/A
	R17	Bedroom	W27	↘	37.4	29.9	N/A	N/A	96%	85%	1.52	0.88	78	66	N/A	N/A	28	16	N/A
	R18	Bedroom	W28	↘	37.4	30.2	N/A	N/A	76%	57%	2.87	0.75	78	66	N/A	N/A	28	16	N/A
	R19	Bedroom	W29	↘	37.3	30.4	N/A	N/A	92%	88%	0.53	0.95	75	63	N/A	N/A	26	14	N/A
	R20	LKD	W30	↘	37.3	30.7	N/A	N/A	96%	76%	6.29	0.79	77	65	N/A	N/A	27	15	N/A
	R21	Bedroom	W31	↘	37.3	30.9	N/A	N/A	98%	73%	4.59	0.74	77	67	N/A	N/A	27	17	N/A
	R22	LKD	W32	↘	37.3	31.2	N/A	N/A											
		LKD	W33	↘	37.3	31.5	N/A	N/A											
		LKD	W34	↗	20.1	20.1	0.0	1.00											
		LKD	W35	↗	17.6	17.6	0.0	1.00	99%	97%	0.74	0.98	77	68	N/A	N/A	27	18	N/A
F03	R1	Bedroom	W1	↙	29.0	27.3	N/A	N/A	92%	92%	0.01	1.00	63	59	N/A	N/A	19	15	N/A
	R2	LKD	W2	↙	32.1	30.1	N/A	N/A											
		LKD	W3	↘	37.3	27.3	N/A	N/A											
		LKD	W4	↘	37.7	27.6	N/A	N/A	100%	89%	4.22	0.89	91	79	N/A	N/A	27	18	N/A
	R3	LKD	W5	↘	37.6	27.4	N/A	N/A											
		LKD	W6	↘	37.6	27.3	N/A	N/A	94%	63%	11.55	0.67	75	61	N/A	N/A	26	14	N/A
	R4	Bedroom	W7	↘	37.7	27.3	N/A	N/A	100%	83%	1.88	0.83	77	62	N/A	N/A	27	14	N/A
	R5	Bedroom	W8	↘	37.6	27.2	N/A	N/A	83%	35%	8.31	0.42	77	61	N/A	N/A	27	14	N/A
	R6	Bedroom	W9	↘	37.6	27.1	N/A	N/A	83%	31%	9.26	0.38	73	58	N/A	N/A	25	12	N/A
	R7	Bedroom	W10	↘	37.7	27.2	N/A	N/A	100%	66%	4.39	0.66	77	62	N/A	N/A	27	14	N/A
	R8	LKD	W11	↘	37.2	26.7	10.5	0.72											
		LKD	W12	↘	37.8	27.2	N/A	N/A											
		LKD	W13	↘	37.8	27.2	N/A	N/A	98%	49%	14.68	0.50	77	62	N/A	N/A	27	14	N/A
	R9	LKD	W14	↘	37.5	27.1	N/A	N/A	98%	33%	25.12	0.34	73	58	N/A	N/A	25	11	N/A
	R10	Bedroom	W15	↘	37.5	27.2	N/A	N/A	97%	70%	3.84	0.72	75	59	N/A	N/A	27	13	N/A
	R11	Bedroom	W16	↘	37.1	27.1	N/A	N/A	99%	71%	3.27	0.72	72	55	N/A	N/A	25	10	N/A
	R12	LKD	W17	↘	37.7	27.9	N/A	N/A	97%	42%	14.16	0.43	78	63	N/A	N/A	28	14	N/A
	R13	Bedroom	W18	↘	37.7	28.3	N/A	N/A	96%	53%	5.69	0.55	78	65	N/A	N/A	28	15	N/A
	R14	LKD	W19	↘	37.7	28.7	N/A	N/A											
		LKD	W20	↘	37.7	29.0	N/A	N/A	99%	66%	11.82	0.67	78	66	N/A	N/A	28	17	N/A
	R15	LKD	W21	↘	37.6	29.2	N/A	N/A											
		LKD	W22	↘	37.7	29.5	N/A	N/A	99%	62%	14.56	0.63	78	65	N/A	N/A	28	16	N/A
	R16	LKD	W23	↘	37.7	29.8	N/A	N/A											
		LKD	W24	↘	37.7	30.1	N/A	N/A	98%	81%	7.25	0.82	78	66	N/A	N/A	28	16	N/A
	R17	LKD	W25	↘	37.7	30.3	N/A	N/A											
		LKD	W26	↘	37.7	30.6	N/A	N/A	99%	91%	2.42	0.92	78	65	N/A	N/A	28	15	N/A
	R18	Bedroom	W27	↘	37.7	30.8	N/A	N/A	97%	88%	1.29	0.91	78	66	N/A	N/A	28	16	N/A
	R19	Bedroom	W28	↘	37.7	31.1	N/A	N/A	77%	59%	2.73	0.77	78	66	N/A	N/A	28	16	N/A
	R20	Bedroom	W29	↘	37.6	31.3	N/A	N/A	95%	92%	0.37	0.97	75	65	N/A	N/A	26	16	N/A
	R21	LKD	W30	↘	37.6	31.6	N/A	N/A	98%	80%	5.75	0.82	77	67	N/A	N/A	27	17	N/A
	R22	Bedroom	W31	↘	37.6	31.8	N/A	N/A	98%	77%	3.96	0.78	77	68	N/A	N/A	27	18	N/A
	R23	LKD	W32	↘	37.6	32.1	N/A	N/A											
		LKD	W33	↘	37.6	32.3	N/A	N/A											
		LKD	W34	↗	22.7	22.7	0.0	1.00											
		LKD	W35	↗	20.6	20.6	0.0	1.00	99%	97%	0.90	0.98	77	69	N/A	N/A	27	19	N/A
F04	R1	Bedroom	W1	↙	33.7	32.2	N/A	N/A	93%	93%	0.01	1.00	69	65	N/A	N/A	21	17	N/A
	R2	LKD	W2	↙	34.8	33.0	N/A	N/A											
		LKD	W3	↘	37.6	28.6	N/A	N/A											
		LKD	W4	↘	38.0	29.0	N/A	N/A	100%	91%	3.54	0.91	96	85	N/A	N/A	27	19	N/A
	R3	LKD	W5	↘	37.9	28.8	N/A	N/A											
		LKD	W6	↘	37.9	28.7	N/A	N/A	94%	68%	9.79	0.72	76	64	N/A	N/A	26	16	N/A
	R4	Bedroom	W7	↘	38.0	28.8	N/A	N/A	100%	88%	1.40	0.88	77	63	N/A	N/A	27	15	N/A
	R5	Bedroom	W8	↘	37.9	28.6	N/A	N/A	83%	37%	7.89	0.45	77	64	N/A	N/A	27	16	N/A

Ratio: N/A or ≥0.8 = inside BRE (N/A* satisfies 4% APSH criterion); N/R = not required

Property, room & window attributes				VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation	Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% rm)	Prop. (% rm)	Loss (m^2)	Pro./Ex. ratio	Annual (%APSH) Exis.	Prop.	Loss	Pro./Ex.	Winter (%APSH) Exis.	Prop.	Pro./Ex.
	R6	Bedroom	W9 ↘	37.9	28.5	N/A	N/A	83%	35%	8.61	0.42	73	60	N/A	N/A	25	14	N/A
	R7	Bedroom	W10 ↘	38.0	28.6	N/A	N/A	100%	73%	3.48	0.73	77	63	N/A	N/A	27	15	N/A
	R8	LKD	W11 ↘	37.5	28.1	N/A	N/A											
		LKD	W12 ↘	38.1	28.7	N/A	N/A											
		LKD	W13 ↘	38.1	28.7	N/A	N/A	97%	51%	13.81	0.53	77	63	N/A	N/A	27	15	N/A
	R9	LKD	W14 ↘	37.7	28.5	N/A	N/A	98%	36%	23.96	0.37	73	59	N/A	N/A	25	12	N/A
	R10	Bedroom	W15 ↘	37.8	28.6	N/A	N/A	97%	75%	3.05	0.77	75	62	N/A	N/A	27	15	N/A
	R11	Bedroom	W16 ↘	37.3	28.4	N/A	N/A	99%	72%	3.51	0.72	72	59	N/A	N/A	25	13	N/A
	R12	Bedroom	W17 ↘	38.0	29.1	N/A	N/A	96%	53%	9.19	0.55	78	65	N/A	N/A	28	16	N/A
	R13	Bedroom	W18 ↘	38.0	29.4	N/A	N/A	96%	59%	4.99	0.61	78	66	N/A	N/A	28	16	N/A
	R14	LKD	W19 ↘	38.0	29.7	N/A	N/A											
		LKD	W20 ↘	37.9	30.1	N/A	N/A	99%	68%	10.94	0.69	78	68	N/A	N/A	28	18	N/A
	R15	LKD	W21 ↘	37.9	30.2	N/A	N/A											
		LKD	W22 ↘	38.0	30.5	N/A	N/A	99%	64%	14.00	0.64	78	67	N/A	N/A	28	17	N/A
	R16	LKD	W23 ↘	38.0	30.8	N/A	N/A											
		LKD	W24 ↘	38.0	31.0	N/A	N/A	98%	82%	6.68	0.84	78	68	N/A	N/A	28	18	N/A
	R17	LKD	W25 ↘	37.9	31.3	N/A	N/A											
		LKD	W26 ↘	37.9	31.5	N/A	N/A	99%	91%	2.17	0.92	78	68	N/A	N/A	28	18	N/A
	R18	Bedroom	W27 ↘	37.9	31.8	N/A	N/A	97%	90%	1.04	0.92	78	68	N/A	N/A	28	18	N/A
	R19	Bedroom	W28 ↘	37.9	32.0	N/A	N/A	77%	61%	2.49	0.79	78	68	N/A	N/A	28	18	N/A
	R20	Bedroom	W29 ↘	37.8	32.2	N/A	N/A	95%	93%	0.24	0.98	75	67	N/A	N/A	26	18	N/A
	R21	LKD	W30 ↘	37.9	32.4	N/A	N/A	98%	82%	5.12	0.84	77	69	N/A	N/A	27	19	N/A
	R22	Bedroom	W31 ↘	37.9	32.7	N/A	N/A	98%	81%	3.26	0.82	77	70	N/A	N/A	27	20	N/A
	R23	LKD	W32 ↘	37.9	32.9	N/A	N/A											
		LKD	W33 ↘	37.9	33.1	N/A	N/A											
		LKD	W34 ↗	26.3	26.3	0.0	1.00											
		LKD	W35 ↗	24.7	24.7	0.0	1.00	99%	98%	0.73	0.98	77	71	N/A	N/A	27	21	N/A
F05	R1	Bedroom	W1 ↙	35.5	34.2	N/A	N/A	93%	93%	0.00	1.00	73	70	N/A	N/A	24	21	N/A
	R2	LKD	W2 ↙	35.7	34.2	N/A	N/A											
		LKD	W3 ↘	37.8	30.0	N/A	N/A											
		LKD	W4 ↘	38.3	30.4	N/A	N/A	98%	86%	4.99	0.87	97	89	N/A	N/A	28	21	N/A
	R3	LKD	W5 ↘	38.2	30.2	N/A	N/A											
		LKD	W6 ↘	38.1	30.1	N/A	N/A	96%	68%	10.27	0.71	76	68	N/A	N/A	26	18	N/A
	R4	Bedroom	W7 ↘	38.2	30.2	N/A	N/A	70%	30%	4.95	0.43	75	65	N/A	N/A	26	17	N/A
	R5	Bedroom	W8 ↘	38.3	30.2	N/A	N/A											
		Bedroom	W9 ↘	38.2	30.0	N/A	N/A	100%	99%	0.09	0.99	77	66	N/A	N/A	27	17	N/A
	R6	Bedroom	W10 ↘	38.1	29.9	N/A	N/A	85%	38%	9.70	0.44	73	62	N/A	N/A	25	15	N/A
	R7	Bedroom	W11 ↘	38.3	30.1	N/A	N/A	100%	74%	3.75	0.74	77	65	N/A	N/A	27	16	N/A
	R8	LKD	W12 ↘	37.7	29.5	N/A	N/A											
		LKD	W13 ↘	38.3	30.0	N/A	N/A											
		LKD	W14 ↘	38.3	30.1	N/A	N/A	97%	53%	13.20	0.55	77	66	N/A	N/A	27	16	N/A
	R9	LKD	W15 ↘	38.0	29.9	N/A	N/A	98%	38%	23.22	0.39	73	61	N/A	N/A	25	14	N/A
	R10	Bedroom	W16 ↘	38.0	30.0	N/A	N/A	97%	79%	2.49	0.82	75	63	N/A	N/A	27	15	N/A
	R11	Bedroom	W17 ↘	37.6	29.7	N/A	N/A	99%	76%	2.99	0.76	72	59	N/A	N/A	25	13	N/A
	R12	LKD	W18 ↘	38.2	30.3	N/A	N/A	97%	48%	12.40	0.49	78	67	N/A	N/A	28	18	N/A
	R13	Bedroom	W19 ↘	38.2	30.6	N/A	N/A	96%	66%	3.99	0.69	78	68	N/A	N/A	28	18	N/A
	R14	LKD	W20 ↘	38.2	30.9	N/A	N/A											
		LKD	W21 ↘	38.2	31.2	N/A	N/A	99%	71%	9.91	0.72	78	69	N/A	N/A	28	19	N/A
	R15	LKD	W22 ↘	38.1	31.3	N/A	N/A											
		LKD	W23 ↘	38.2	31.6	N/A	N/A	99%	65%	13.76	0.65	78	69	N/A	N/A	28	19	N/A
	R16	LKD	W24 ↘	38.2	31.8	N/A	N/A											
		LKD	W25 ↘	38.2	32.1	N/A	N/A	98%	84%	6.06	0.85	78	70	N/A	N/A	28	20	N/A
	R17	LKD	W26 ↘	38.2	32.3	N/A	N/A											
		LKD	W27 ↘	38.2	32.5	N/A	N/A	99%	92%	1.86	0.94	78	69	N/A	N/A	28	19	N/A
	R18	Bedroom	W28 ↘	38.2	32.7	N/A	N/A	97%	92%	0.73	0.95	78	69	N/A	N/A	28	19	N/A
	R19	Bedroom	W29 ↘	38.2	32.9	N/A	N/A	77%	62%	2.27	0.81	78	70	N/A	N/A	28	20	N/A
	R20	Bedroom	W30 ↘	38.1	33.1	N/A	N/A	95%	94%	0.15	0.99	75	68	N/A	N/A	26	19	N/A
	R21	LKD	W31 ↘	38.1	33.3	N/A	N/A	98%	84%	4.32	0.86	77	71	N/A	N/A	27	21	N/A
	R22	Bedroom	W32 ↘	38.1	33.6	N/A	N/A	98%	85%	2.48	0.86	78	71	N/A	N/A	28	21	N/A
	R23	LKD	W33 ↘	38.1	33.8	N/A	N/A											
		LKD	W34 ↘	38.1	34.0	N/A	N/A											

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% rm)	Prop. (% rm)	Loss (m^2)	Pro./Ex. ratio	Annual (%APSH) Exis.	Prop.	Loss	Pro./Ex.	Winter (%APSH) Exis.	Prop.	Pro./Ex.
		LKD	W35	↗	31.6	31.6	N/A	N/A											
		LKD	W36	↗	30.7	30.7	N/A	N/A	100%	98%	0.52	0.99	78	71	N/A	N/A	28	21	N/A
F06	R1	Unknown-Re	W1	↘	32.8	28.6	N/A	N/A	98%	98%	0.00	1.00	65	60	N/A	N/A	26	21	N/A
	R2	Unknown-Re	W2	↘	34.7	30.1	N/A	N/A	100%	93%	1.01	0.93	66	59	N/A	N/A	20	13	N/A
	R3	Unknown-Re	W3	↘	31.2	29.1	N/A	N/A	100%	92%	1.13	0.92	61	57	N/A	N/A	21	17	N/A
	R4	Unknown-Re	W4	↘	27.5	23.9	3.6	0.87	100%	89%	1.36	0.89	49	44	N/A	N/A	13	8	N/A
	R6	LKD	W7	↘	38.3	31.5	N/A	N/A											
		LKD	W8	↘	38.3	31.7	N/A	N/A	99%	92%	3.05	0.93	77	68	N/A	N/A	27	18	N/A
	R7	Bedroom	W9	↘	37.9	31.4	N/A	N/A	99%	99%	0.00	1.00	72	63	N/A	N/A	25	16	N/A
	R8	Bedroom	W10	↘	38.5	31.6	N/A	N/A	96%	63%	7.07	0.65	78	69	N/A	N/A	28	19	N/A
	R9	Bedroom	W11	↘	38.4	31.8	N/A	N/A	96%	76%	2.63	0.79	78	70	N/A	N/A	28	20	N/A
	R10	LKD	W12	↘	38.4	32.1	N/A	N/A											
		LKD	W13	↘	38.4	32.3	N/A	N/A	99%	74%	8.86	0.75	78	72	N/A	N/A	28	22	N/A
	R11	LKD	W14	↘	38.4	32.4	N/A	N/A											
		LKD	W15	↘	38.5	32.7	N/A	N/A	99%	66%	13.34	0.66	78	73	N/A	N/A	28	23	N/A
	R12	LKD	W16	↘	38.4	32.9	N/A	N/A											
		LKD	W17	↘	38.4	33.1	N/A	N/A	98%	85%	5.50	0.86	78	71	N/A	N/A	28	21	N/A
	R13	LKD	W18	↘	38.4	33.3	N/A	N/A											
		LKD	W19	↘	38.4	33.5	N/A	N/A	99%	94%	1.40	0.95	78	72	N/A	N/A	28	22	N/A
	R14	Bedroom	W20	↘	38.4	33.7	N/A	N/A	97%	94%	0.38	0.97	78	72	N/A	N/A	28	22	N/A
	R15	Bedroom	W21	↘	38.4	33.9	N/A	N/A	77%	64%	1.98	0.84	78	72	N/A	N/A	28	22	N/A
	R16	Bedroom	W22	↘	38.3	34.0	N/A	N/A	95%	95%	0.04	1.00	76	70	N/A	N/A	27	21	N/A
	R17	LKD	W23	↘	38.4	34.3	N/A	N/A	98%	87%	3.40	0.89	78	73	N/A	N/A	28	23	N/A
	R18	Bedroom	W24	↘	38.4	34.5	N/A	N/A	98%	90%	1.58	0.91	78	72	N/A	N/A	28	22	N/A
	R19	LKD	W25	↘	38.4	34.6	N/A	N/A											
		LKD	W26	↘	38.4	34.8	N/A	N/A											
		LKD	W27	↗	36.4	36.4	N/A	N/A											
		LKD	W28	↗	36.1	36.1	N/A	N/A	100%	99%	0.16	1.00	78	73	N/A	N/A	28	23	N/A
F07	R1	LKD	W1	↙	28.9	28.8	N/A	N/A											
		LKD	W2	↗	19.5	19.5	0.0	1.00	73%	68%	1.24	0.92	44	44	N/A	N/A	10	10	N/A
	R3	Bedroom	W4	↙	24.7	24.7	0.0	1.00	86%	85%	0.08	0.99	56	55	N/A	N/A	17	16	N/A
	R4	LKD	W5	↘	38.7	32.9	N/A	N/A	97%	56%	11.71	0.57	78	71	N/A	N/A	28	21	N/A
	R5	Bedroom	W6	↘	38.6	33.1	N/A	N/A	98%	83%	1.92	0.84	78	71	N/A	N/A	28	21	N/A
	R6	LKD	W7	↘	38.6	33.3	N/A	N/A											
		LKD	W8	↘	38.6	33.5	N/A	N/A	99%	76%	8.77	0.77	78	72	N/A	N/A	28	22	N/A
	R7	LKD	W9	↘	38.6	33.6	N/A	N/A											
		LKD	W10	↘	38.6	33.8	N/A	N/A	99%	63%	16.62	0.64	78	74	N/A	N/A	28	24	N/A
	R8	LKD	W11	↘	38.6	34.0	N/A	N/A											
		LKD	W12	↘	38.6	34.2	N/A	N/A	99%	86%	4.54	0.87	78	74	N/A	N/A	28	24	N/A
	R9	LKD	W13	↘	38.6	34.3	N/A	N/A											
		LKD	W14	↘	38.6	34.5	N/A	N/A	99%	91%	2.74	0.92	78	74	N/A	N/A	28	24	N/A
	R10	Bedroom	W15	↘	38.6	34.7	N/A	N/A	98%	93%	0.67	0.95	78	73	N/A	N/A	28	23	N/A
	R11	LKD	W16	↘	38.6	34.8	N/A	N/A											
		LKD	W17	↘	38.5	34.9	N/A	N/A	99%	91%	3.24	0.92	78	74	N/A	N/A	28	24	N/A
	R12	LKD	W18	↘	38.6	35.2	N/A	N/A	99%	77%	5.36	0.78	78	73	N/A	N/A	28	23	N/A
	R13	Bedroom	W19	↘	38.6	35.3	N/A	N/A	99%	90%	1.26	0.91	78	73	N/A	N/A	28	23	N/A
	R14	LKD	W20	↘	38.6	35.5	N/A	N/A											
		LKD	W21	↘	38.6	35.7	N/A	N/A											
		LKD	W22	↗	38.1	38.1	N/A	N/A											
		LKD	W23	↗	38.0	38.0	N/A	N/A	100%	93%	3.16	0.94	78	74	N/A	N/A	28	24	N/A
F07M	R1	Living Room	W1	Inc	87.8	85.1	N/A	N/A	100%	93%	1.24	0.93	91	88	N/A	N/A	28	25	N/A
	R2	Living Room	W2	Inc	87.7	85.2	N/A	N/A	100%	90%	2.59	0.90	90	87	N/A	N/A	28	25	N/A
	R3	Living Room	W3	Inc	87.5	85.4	N/A	N/A	100%	94%	1.37	0.94	91	89	N/A	N/A	28	26	N/A
	R4	Living Room	W4	Inc	87.5	85.6	N/A	N/A	100%	100%	0.03	1.00	92	90	N/A	N/A	28	26	N/A
	R5	Living Room	W5	Inc	87.6	85.8	N/A	N/A											
		Living Room	W7	↖	25.0	25.0	0.0	1.00											
		Living Room	W8	↖	19.5	19.5	0.0	1.00	98%	96%	0.30	0.99	92	90	N/A	N/A	28	26	N/A
	R6	Bedroom	W6	Inc	87.0	85.2	N/A	N/A	96%	96%	0.03	1.00	91	89	N/A	N/A	28	26	N/A

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% rm)	Prop. (% rm)	Loss (m^2)	Pro./Ex. ratio	Annual (%APSH) Exis.	Prop.	Loss	Pro./Ex.	Winter (%APSH) Exis.	Prop.	Pro./Ex.
MM2 Building Flats 1-65																			
F01	R1	Unknown-Re	W1	↙	21.5	21.0	0.5	0.98											
		Unknown-Re	W2	↙	25.4	24.8	0.6	0.98											
		Unknown-Re	W3	↘	36.8	29.4	N/A	N/A											
		Unknown-Re	W4	↘	37.0	29.3	N/A	N/A	100%	100%	0.00	1.00	81	70	N/A	N/A	27	22	N/A
	R2	Unknown-Re	W5	↘	37.0	28.8	N/A	N/A	100%	100%	0.00	1.00	74	61	N/A	N/A	25	18	N/A
	R3	Unknown-Re	W6	↘	37.0	28.3	N/A	N/A	100%	100%	0.00	1.00	73	58	N/A	N/A	25	16	N/A
	R4	Unknown-Re	W7	↘	36.8	27.7	N/A	N/A											
		Unknown-Re	W8	↘	36.3	26.7	9.6	0.74											
		Unknown-Re	W9	↗	15.8	13.5	2.3	0.85											
		Unknown-Re	W10	↗	13.1	10.9	2.2	0.83	100%	100%	0.00	1.00	73	60	N/A	N/A	25	15	N/A
F02	R1	Unknown-Re	W1	↙	24.6	24.2	0.4	0.98											
		Unknown-Re	W2	↙	28.0	27.5	N/A	N/A											
		Unknown-Re	W3	↘	37.0	30.2	N/A	N/A											
		Unknown-Re	W4	↘	37.1	30.0	N/A	N/A	100%	100%	0.00	1.00	87	79	N/A	N/A	28	24	N/A
	R2	Unknown-Re	W5	↘	37.1	29.5	N/A	N/A	100%	100%	0.00	1.00	73	61	N/A	N/A	25	18	N/A
	R3	Unknown-Re	W6	↘	37.0	29.1	N/A	N/A	100%	100%	0.00	1.00	73	60	N/A	N/A	26	18	N/A
	R4	Unknown-Re	W7	↘	36.9	28.5	N/A	N/A											
		Unknown-Re	W8	↘	36.5	27.7	N/A	N/A											
		Unknown-Re	W9	↗	18.1	15.9	2.2	0.88											
		Unknown-Re	W10	↗	15.5	13.5	2.0	0.87	100%	100%	0.00	1.00	73	62	N/A	N/A	26	18	N/A
F03	R1	Unknown-Re	W1	↙	23.9	23.5	0.4	0.98											
		Unknown-Re	W2	↙	26.5	26.0	0.5	0.98											
		Unknown-Re	W3	↘	33.0	26.9	6.1	0.82											
		Unknown-Re	W4	↘	32.5	26.1	6.4	0.80	100%	100%	0.00	1.00	93	86	N/A	N/A	28	25	N/A
	R2	Unknown-Re	W5	↘	32.5	25.7	6.8	0.79	100%	100%	0.00	1.00	62	51	N/A	N/A	23	17	N/A
	R3	Unknown-Re	W6	↘	32.5	25.3	7.2	0.78	100%	100%	0.00	1.00	62	49	N/A	N/A	24	16	N/A
	R4	Unknown-Re	W7	↘	32.4	24.8	7.6	0.77											
		Unknown-Re	W8	↘	32.4	24.4	8.0	0.75											
		Unknown-Re	W9	↗	17.1	15.2	1.9	0.89											
		Unknown-Re	W10	↗	14.6	12.9	1.7	0.88	100%	100%	0.00	1.00	62	51	N/A	N/A	24	16	N/A
F04	R1	Unknown-Re	W1	↙	27.3	27.0	N/A	N/A											
		Unknown-Re	W2	↙	28.6	28.1	N/A	N/A											
		Unknown-Re	W3	↘	33.1	27.7	N/A	N/A											
		Unknown-Re	W4	↘	32.4	26.7	5.7	0.82	100%	100%	0.00	1.00	96	91	N/A	N/A	28	26	N/A
	R2	Unknown-Re	W5	↘	32.4	26.3	6.1	0.81	100%	100%	0.00	1.00	64	57	N/A	N/A	25	20	N/A
	R3	Unknown-Re	W6	↘	32.3	25.9	6.4	0.80	100%	100%	0.00	1.00	62	52	N/A	N/A	24	17	N/A
	R4	Unknown-Re	W7	↘	32.3	25.4	6.9	0.79											
		Unknown-Re	W8	↘	32.6	25.4	7.2	0.78											
		Unknown-Re	W9	↗	22.0	20.2	1.8	0.92											
		Unknown-Re	W10	↗	19.9	18.3	1.6	0.92	100%	100%	0.00	1.00	62	53	N/A	N/A	24	16	N/A
MM2 Building Flats 66-93																			
F02	R1	Unknown-Re	W1	↙	22.7	22.7	0.0	1.00											
		Unknown-Re	W2	↘	33.1	28.3	N/A	N/A	100%	100%	0.00	1.00	79	71	N/A	N/A	26	23	N/A
	R2	Unknown-Re	W3	↘	36.9	31.7	N/A	N/A	99%	98%	0.32	0.99	72	65	N/A	N/A	24	21	N/A
	R3	Unknown-Re	W4	↘	36.9	31.4	N/A	N/A	100%	100%	0.00	1.00	72	65	N/A	N/A	24	21	N/A
	R4	Unknown-Re	W5	↘	37.0	31.0	N/A	N/A											
		Unknown-Re	W6	↘	36.9	30.7	N/A	N/A											
		Unknown-Re	W7	↗	24.6	22.2	2.4	0.90											
		Unknown-Re	W8	↗	22.0	19.9	2.1	0.90	100%	100%	0.00	1.00	72	65	N/A	N/A	24	20	N/A
F03	R1	Unknown-Re	W1	↙	24.0	24.0	0.0	1.00											
		Unknown-Re	W2	↘	33.5	29.2	N/A	N/A	100%	100%	0.00	1.00	82	73	N/A	N/A	27	23	N/A
	R2	Unknown-Re	W3	↘	33.0	28.3	N/A	N/A	99%	99%	0.00	1.00	65	57	N/A	N/A	25	21	N/A
	R3	Unknown-Re	W4	↘	33.0	28.0	N/A	N/A	100%	100%	0.00	1.00	64	57	N/A	N/A	24	21	N/A
	R4	Unknown-Re	W5	↘	33.0	27.6	N/A	N/A											
		Unknown-Re	W6	↘	33.4	27.7	N/A	N/A											
		Unknown-Re	W7	↗	25.4	23.2	2.2	0.91											
		Unknown-Re	W8	↗	23.2	21.3	1.9	0.92	100%	100%	0.00	1.00	65	57	N/A	N/A	25	20	N/A
F04	R1	Unknown-Re	W1	↙	28.4	28.4	N/A	N/A											

Ratio: N/A or ≥0.8 = inside BRE (N/A* satisfies 4% APSH criterion); N/R = not required

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% rm)	Prop. (% rm)	Loss (m^2)	Pro./Ex. ratio	Annual (%APSH) Exis.	Prop.	Loss	Pro./Ex.	Winter (%APSH) Exis.	Prop.	Pro./Ex.
		Unknown-Re	W2	↘	36.2	32.5	N/A	N/A	100%	100%	0.00	1.00	85	79	N/A	N/A	28	24	N/A
	R2	Unknown-Re	W3	↘	32.3	28.1	N/A	N/A	100%	100%	0.00	1.00	63	57	N/A	N/A	24	20	N/A
	R3	Unknown-Re	W4	↘	32.4	27.9	N/A	N/A	100%	100%	0.00	1.00	63	56	N/A	N/A	24	20	N/A
	R4	Unknown-Re	W5	↘	32.4	27.5	N/A	N/A											
		Unknown-Re	W6	↘	32.9	27.9	N/A	N/A											
		Unknown-Re	W7	↗	30.4	28.4	N/A	N/A											
		Unknown-Re	W8	↗	29.2	27.5	N/A	N/A	100%	100%	0.00	1.00	63	56	N/A	N/A	24	19	N/A
Brownsfield Mill																			
B01	R1	LKD	W1	↘	35.0	30.9	N/A	N/A											
		LKD	W2	↘	35.0	31.0	N/A	N/A											
		LKD	W3	↘	34.9	31.2	N/A	N/A											
		LKD	W4	↘	34.9	31.4	N/A	N/A	98%	98%	0.01	1.00	70	63	N/A	N/A	22	22	N/A
	R2	Bedroom	W5	↘	34.8	31.5	N/A	N/A	96%	96%	0.00	1.00	69	62	N/A	N/A	21	21	N/A
	R3	LKD	W6	↘	34.8	31.7	N/A	N/A											
		LKD	W7	↘	34.6	31.7	N/A	N/A	98%	97%	0.30	0.99	70	64	N/A	N/A	22	22	N/A
	R4	Bedroom	W8	↘	34.6	31.8	N/A	N/A	94%	94%	0.01	1.00	70	64	N/A	N/A	22	22	N/A
	R5	LKD	W9	↘	34.5	32.0	N/A	N/A											
		LKD	W10	↘	34.5	32.1	N/A	N/A	79%	79%	0.00	1.00	70	64	N/A	N/A	22	22	N/A
	R6	LKD	W11	↘	34.5	32.4	N/A	N/A											
		LKD	W12	↙	30.5	30.5	N/A	N/A											
		LKD	W13	↙	32.0	32.0	N/A	N/A	95%	95%	0.00	1.00	92	87	N/A	N/A	25	25	N/A
F00	R1	LKD	W1	↘	36.1	32.1	N/A	N/A											
		LKD	W2	↘	36.1	32.3	N/A	N/A											
		LKD	W3	↘	36.0	32.4	N/A	N/A											
		LKD	W4	↘	36.0	32.6	N/A	N/A											
		LKD	W17	↗	3.8	3.7	0.1	0.97	99%	99%	0.18	1.00	70	64	N/A	N/A	22	22	N/A
	R2	Bedroom	W5	↘	35.9	32.8	N/A	N/A	97%	97%	0.00	1.00	69	63	N/A	N/A	21	21	N/A
	R3	LKD	W6	↘	35.9	32.9	N/A	N/A											
		LKD	W7	↘	35.9	33.1	N/A	N/A	98%	97%	0.59	0.99	70	64	N/A	N/A	22	22	N/A
	R4	Bedroom	W8	↘	35.8	33.2	N/A	N/A	96%	96%	0.04	1.00	70	64	N/A	N/A	22	22	N/A
	R5	LKD	W9	↘	35.8	33.3	N/A	N/A											
		LKD	W10	↘	35.8	33.4	N/A	N/A	78%	78%	0.00	1.00	70	64	N/A	N/A	22	22	N/A
	R6	Bedroom	W11	↘	35.5	33.5	N/A	N/A											
		Bedroom	W12	↙	33.0	33.0	N/A	N/A	99%	99%	0.00	1.00	93	87	N/A	N/A	25	25	N/A
	R7	KD	W13	↗	13.4	13.4	0.0	1.00											
		KD	W14	↗	14.7	14.7	0.0	1.00											
		KD	W15	↗	15.4	15.3	0.1	0.99	90%	90%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R8	Bedroom	W16	↗	15.3	14.9	0.4	0.97	54%	54%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
F01	R1	LKD	W1	↘	36.9	33.1	N/A	N/A											
		LKD	W2	↘	36.9	33.3	N/A	N/A	98%	98%	0.02	1.00	70	64	N/A	N/A	22	22	N/A
	R2	Bedroom	W3	↘	36.8	33.5	N/A	N/A	96%	96%	0.05	1.00	70	64	N/A	N/A	22	22	N/A
	R3	Bedroom	W4	↘	36.8	33.6	N/A	N/A	96%	94%	0.23	0.98	70	64	N/A	N/A	22	22	N/A
	R4	LKD	W5	↘	36.8	33.8	N/A	N/A											
		LKD	W6	↘	36.8	34.0	N/A	N/A											
		LKD	W7	↘	36.8	34.1	N/A	N/A	99%	99%	0.01	1.00	71	65	N/A	N/A	23	23	N/A
	R5	Bedroom	W8	↘	36.8	34.3	N/A	N/A	96%	96%	0.01	1.00	70	64	N/A	N/A	22	22	N/A
	R6	LKD	W9	↘	36.8	34.4	N/A	N/A											
		LKD	W10	↘	36.8	34.5	N/A	N/A	85%	85%	0.00	1.00	70	64	N/A	N/A	22	22	N/A
	R7	Bedroom	W11	↘	36.5	34.5	N/A	N/A											
		Bedroom	W12	↙	33.9	33.9	N/A	N/A	99%	99%	0.03	1.00	94	88	N/A	N/A	26	26	N/A
	R8	KD	W13	↗	14.9	14.9	0.0	1.00											
		KD	W14	↗	16.6	16.6	0.0	1.00											
		KD	W15	↗	17.2	17.1	0.1	0.99	90%	90%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R9	Bedroom	W16	↗	16.8	16.5	0.3	0.98	53%	53%	0.01	1.00	North	North	N/A	N/A	North	North	N/A
F02	R1	Bedroom	W1	↘	37.4	33.9	N/A	N/A	94%	94%	0.14	0.99	71	65	N/A	N/A	23	23	N/A
	R2	Bedroom	W2	↘	37.4	34.1	N/A	N/A	95%	94%	0.02	1.00	71	65	N/A	N/A	23	23	N/A
	R3	LKD	W3	↘	37.4	34.3	N/A	N/A											
		LKD	W4	↘	37.4	34.5	N/A	N/A											
		LKD	W5	↘	37.4	34.6	N/A	N/A	98%	98%	0.02	1.00	71	65	N/A	N/A	23	23	N/A
	R4	Bedroom	W6	↘	37.4	34.8	N/A	N/A	97%	97%	0.01	1.00	71	65	N/A	N/A	23	23	N/A

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% rm)	Prop. (% rm)	Loss (m^2)	Pro./Ex. ratio	Annual (%APSH) Exis.	Prop.	Loss	Pro./Ex.	Winter (%APSH) Exis.	Prop.	Pro./Ex.
	R5	Bedroom	W7	↘	37.4	34.9	N/A	N/A	95%	95%	0.01	1.00	70	64	N/A	N/A	22	22	N/A
	R6	LKD	W8	↘	37.4	35.1	N/A	N/A											
		LKD	W9	↘	37.5	35.2	N/A	N/A	83%	83%	0.00	1.00	70	64	N/A	N/A	22	22	N/A
	R7	Bedroom	W10	↘	37.5	35.3	N/A	N/A											
		Bedroom	W11	↘	37.5	35.4	N/A	N/A	98%	98%	0.00	1.00	70	65	N/A	N/A	22	22	N/A
	R8	Bedroom	W12	↘	37.5	35.5	N/A	N/A											
		Bedroom	W13	↙	34.9	34.9	N/A	N/A											
		Bedroom	W14	↙	34.7	34.7	N/A	N/A	100%	100%	0.00	1.00	94	90	N/A	N/A	26	26	N/A
F03	R1	Bedroom	W1	↘	37.8	34.6	N/A	N/A	94%	94%	0.12	0.99	71	65	N/A	N/A	23	23	N/A
	R2	Bedroom	W2	↘	37.8	34.8	N/A	N/A	95%	94%	0.02	1.00	71	65	N/A	N/A	23	23	N/A
	R3	LKD	W3	↘	37.8	34.9	N/A	N/A											
		LKD	W4	↘	37.8	35.1	N/A	N/A											
		LKD	W5	↘	37.8	35.2	N/A	N/A	98%	98%	0.01	1.00	71	65	N/A	N/A	23	23	N/A
	R4	Bedroom	W6	↘	37.8	35.4	N/A	N/A	97%	97%	0.01	1.00	71	65	N/A	N/A	23	23	N/A
	R5	Bedroom	W7	↘	37.8	35.5	N/A	N/A	95%	95%	0.01	1.00	70	64	N/A	N/A	22	22	N/A
	R6	LKD	W8	↘	37.8	35.6	N/A	N/A											
		LKD	W9	↘	37.8	35.8	N/A	N/A	83%	83%	0.01	1.00	70	65	N/A	N/A	22	22	N/A
	R7	Bedroom	W10	↘	37.8	35.9	N/A	N/A											
		Bedroom	W11	↘	37.8	36.0	N/A	N/A	98%	98%	0.00	1.00	70	66	N/A	N/A	22	22	N/A
	R8	Bedroom	W12	↘	37.8	36.0	N/A	N/A											
		Bedroom	W13	↙	35.4	35.4	N/A	N/A											
		Bedroom	W14	↙	35.3	35.3	N/A	N/A	100%	100%	0.00	1.00	94	90	N/A	N/A	26	26	N/A
	R9	KD	W15	↗	16.8	16.8	0.0	1.00											
		KD	W16	↗	19.0	19.0	0.0	1.00											
		KD	W17	↗	19.7	19.6	0.1	0.99	92%	92%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R10	Bedroom	W18	↗	18.8	18.5	0.3	0.98	69%	69%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
F04	R1	Bedroom	W1	↘	38.1	35.1	N/A	N/A	94%	94%	0.10	0.99	71	65	N/A	N/A	23	23	N/A
	R2	Bedroom	W2	↘	38.1	35.3	N/A	N/A	95%	94%	0.01	1.00	71	65	N/A	N/A	23	23	N/A
	R3	LKD	W3	↘	38.1	35.5	N/A	N/A											
		LKD	W4	↘	38.0	35.6	N/A	N/A											
		LKD	W5	↘	38.0	35.7	N/A	N/A	98%	98%	0.00	1.00	71	66	N/A	N/A	23	23	N/A
	R4	Bedroom	W6	↘	38.1	35.9	N/A	N/A	97%	97%	0.00	1.00	71	66	N/A	N/A	23	23	N/A
	R5	Bedroom	W7	↘	38.1	36.0	N/A	N/A	95%	95%	0.01	1.00	71	66	N/A	N/A	23	23	N/A
	R6	LKD	W8	↘	38.1	36.1	N/A	N/A											
		LKD	W9	↘	38.1	36.2	N/A	N/A	84%	84%	0.00	1.00	71	67	N/A	N/A	23	23	N/A
	R7	Bedroom	W10	↘	38.1	36.3	N/A	N/A											
		Bedroom	W11	↘	38.1	36.4	N/A	N/A	98%	98%	0.00	1.00	71	67	N/A	N/A	23	23	N/A
	R8	Bedroom	W12	↘	38.1	36.5	N/A	N/A											
		Bedroom	W13	↙	36.0	36.0	N/A	N/A											
		Bedroom	W14	↙	35.8	35.8	N/A	N/A	100%	100%	0.00	1.00	96	92	N/A	N/A	28	28	N/A
	R9	KD	W15	↗	19.2	19.2	0.0	1.00											
		KD	W16	↗	22.4	22.4	0.0	1.00											
		KD	W17	↗	23.0	22.9	0.1	1.00	93%	93%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R10	Bedroom	W18	↗	21.4	21.1	0.3	0.99	76%	76%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
F05	R1	Bedroom	W1	↘	38.3	35.6	N/A	N/A											
		Bedroom	W2	↘	38.3	35.8	N/A	N/A	98%	98%	0.00	1.00	71	65	N/A	N/A	23	23	N/A
	R2	LKD	W3	↘	38.3	36.0	N/A	N/A											
		LKD	W4	↘	38.3	36.1	N/A	N/A											
		LKD	W5	↘	38.3	36.2	N/A	N/A											
		LKD	W6	↘	38.3	36.3	N/A	N/A	96%	96%	0.00	1.00	71	67	N/A	N/A	23	23	N/A
	R3	Bedroom	W7	↘	38.3	36.4	N/A	N/A											
		Bedroom	W8	↘	38.3	36.5	N/A	N/A	98%	98%	0.01	1.00	71	67	N/A	N/A	23	23	N/A
	R4	Bedroom	W9	↘	38.3	36.6	N/A	N/A											
		Bedroom	W10	↘	38.3	36.7	N/A	N/A	99%	99%	0.00	1.00	71	67	N/A	N/A	23	23	N/A
	R5	Living Room	W11	↘	38.3	36.8	N/A	N/A											
		Living Room	W12	↘	38.3	36.9	N/A	N/A											
		Living Room	W13	↙	36.4	36.4	N/A	N/A											
		Living Room	W14	↙	36.3	36.3	N/A	N/A	100%	100%	0.01	1.00	96	92	N/A	N/A	28	28	N/A
	R6	KD	W15	↗	22.2	22.1	0.1	1.00											
		KD	W16	↗	26.0	25.5	0.5	0.98											
		KD	W17	↗	26.2	25.6	0.6	0.98	91%	91%	0.00	1.00	North	North	N/A	N/A	North	North	N/A

Ratio: N/A or ≥0.8 = inside BRE (N/A* satisfies 4% APSH criterion); N/R = not required

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% rm)	Prop. (% rm)	Loss (m^2)	Pro./Ex. ratio	Annual (%APSH) Exis.	Prop.	Loss	Pro./Ex.	Winter (%APSH) Exis.	Prop.	Pro./Ex.
	R7	Bedroom	W18	↗	24.4	23.7	0.7	0.97	72%	63%	1.57	0.87	North	North	N/A	N/A	North	North	N/A
40 Laystall St																			
F01	R1	Bedroom	W1	↖	15.5	9.6	5.9	0.62	82%	46%	6.44	0.56	North	North	N/A	N/A	North	North	N/A
	R2	LKD	W2	↖	29.5	21.4	8.1	0.73											
		LKD	W3	↖	33.8	26.0	7.8	0.77											
		LKD	W4	↖	33.6	26.2	7.4	0.78	100%	97%	0.75	0.97	North	North	N/A	N/A	North	North	N/A
	R3	LKD	W5	↖	23.1	18.4	4.7	0.80											
		LKD	W6	↖	33.1	26.6	6.5	0.80											
		LKD	W7	↖	32.8	26.8	6.0	0.82	100%	100%	0.02	1.00	North	North	N/A	N/A	North	North	N/A
	R4	LKD	W8	↖	22.4	18.8	3.6	0.84											
		LKD	W9	↖	32.4	27.3	N/A	N/A											
		LKD	W10	↖	32.3	27.5	N/A	N/A	100%	99%	0.10	1.00	North	North	N/A	N/A	North	North	N/A
	R5	LKD	W11	↖	21.8	19.2	2.6	0.88											
		LKD	W12	↖	31.8	27.7	N/A	N/A											
		LKD	W13	↖	31.6	27.9	N/A	N/A	100%	96%	1.03	0.97	North	North	N/A	N/A	North	North	N/A
	R6	LKD	W14	↖	21.4	19.7	1.7	0.92											
		LKD	W15	↖	31.6	28.5	N/A	N/A											
		LKD	W16	↖	31.6	28.8	N/A	N/A	100%	99%	0.30	0.99	North	North	N/A	N/A	North	North	N/A
	R7	LKD	W17	↖	21.5	20.4	1.1	0.95											
		LKD	W18	↖	31.7	29.3	N/A	N/A	94%	94%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R8	Bedroom	W19	↖	31.8	29.9	N/A	N/A	99%	99%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R9	Bedroom	W20	↖	31.9	30.0	N/A	N/A											
		Bedroom	W21	↖	31.9	30.1	N/A	N/A											
		Bedroom	W22	↙	13.6	13.6	0.0	1.00	98%	98%	0.00	1.00	37	36	N/A	N/A	10	10	N/A
F02	R1	Bedroom	W1	↖	15.7	10.2	5.5	0.65	82%	40%	7.39	0.49	North	North	N/A	N/A	North	North	N/A
	R2	LKD	W2	↖	30.6	23.0	7.6	0.75											
		LKD	W3	↖	35.3	28.0	N/A	N/A	100%	100%	0.02	1.00	North	North	N/A	N/A	North	North	N/A
	R3	LKD	W4	↖	26.4	21.8	4.6	0.83											
		LKD	W5	↖	34.3	27.7	N/A	N/A											
		LKD	W6	↖	34.8	28.9	N/A	N/A	99%	96%	0.83	0.97	North	North	N/A	N/A	North	North	N/A
	R4	LKD	W7	↖	34.7	29.0	N/A	N/A											
		LKD	W8	↖	33.8	28.8	N/A	N/A											
		LKD	W9	↖	27.6	23.4	4.2	0.85	99%	99%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R5	LKD	W10	↖	25.7	22.8	2.9	0.89											
		LKD	W11	↖	33.6	29.1	N/A	N/A											
		LKD	W12	↖	34.1	30.0	N/A	N/A	99%	98%	0.21	0.99	North	North	N/A	N/A	North	North	N/A
	R6	LKD	W13	↖	34.1	30.2	N/A	N/A											
		LKD	W14	↖	33.3	29.9	N/A	N/A											
		LKD	W15	↖	27.1	24.4	2.7	0.90	99%	99%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R7	LKD	W16	↖	34.0	31.0	N/A	N/A	99%	88%	3.01	0.89	North	North	N/A	N/A	North	North	N/A
	R8	Bedroom	W17	↖	34.1	31.6	N/A	N/A	94%	84%	1.50	0.89	North	North	N/A	N/A	North	North	N/A
	R9	Bedroom	W18	↖	34.1	31.9	N/A	N/A											
		Bedroom	W19	↙	17.1	17.1	0.0	1.00	96%	96%	0.01	1.00	45	44	N/A	N/A	11	11	N/A
Port Street - Consented 01																			
F01	R1	Bedroom	W1	↘	30.4	27.5	N/A	N/A											
		Bedroom	W2	↘	30.9	27.9	N/A	N/A	99%	99%	0.00	1.00	35	31	N/A	N/A	6	5	N/A
	R2	Bedroom	W3	↘	31.3	28.4	N/A	N/A											
		Bedroom	W4	↘	31.8	28.8	N/A	N/A	98%	98%	0.00	1.00	37	33	N/A	N/A	8	7	N/A
	R3	Bedroom	W5	↘	32.3	29.2	N/A	N/A											
		Bedroom	W6	↘	32.7	29.5	N/A	N/A											
		Bedroom	W7	↘	33.0	29.8	N/A	N/A											
		Bedroom	W8	↗	32.8	30.4	N/A	N/A											
		Bedroom	W9	↗	32.5	30.2	N/A	N/A											
		Bedroom	W10	↗	32.1	29.8	N/A	N/A											
		Bedroom	W11	↗	31.1	28.9	N/A	N/A	100%	100%	0.00	1.00	42	38	N/A	N/A	9	8	N/A
	R4	Bedroom	W12	↗	26.0	23.8	2.2	0.92											
		Bedroom	W13	↗	13.6	13.4	0.2	0.99	98%	98%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R5	Bedroom	W14	↗	13.6	12.2	1.4	0.90											
		Bedroom	W15	↗	14.6	14.6	0.0	1.00	98%	97%	0.15	0.99	North	North	N/A	N/A	North	North	N/A

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% rm)	Prop. (% rm)	Loss (m^2)	Pro./Ex. ratio	Annual (%APSH) Exis.	Prop.	Loss	Pro./Ex.	Winter (%APSH) Exis.	Prop.	Pro./Ex.
F02	R1	Bedroom	W1	↘	32.4	29.8	N/A	N/A											
		Bedroom	W2	↘	32.8	30.1	N/A	N/A	99%	99%	0.00	1.00	37	33	N/A	N/A	8	7	N/A
	R2	Bedroom	W3	↘	33.1	30.4	N/A	N/A											
		Bedroom	W4	↘	33.5	30.7	N/A	N/A	98%	98%	0.00	1.00	39	35	N/A	N/A	10	9	N/A
	R3	Bedroom	W5	↘	33.8	31.0	N/A	N/A											
		Bedroom	W6	↘	34.1	31.2	N/A	N/A											
		Bedroom	W7	↘	34.4	31.5	N/A	N/A											
		Bedroom	W8	↗	34.6	32.3	N/A	N/A											
		Bedroom	W9	↗	34.3	32.2	N/A	N/A											
		Bedroom	W10	↗	34.0	31.9	N/A	N/A											
		Bedroom	W11	↗	33.0	30.9	N/A	N/A	100%	100%	0.00	1.00	43	40	N/A	N/A	10	9	N/A
	R4	Bedroom	W12	↗	27.6	25.7	1.9	0.93											
		Bedroom	W13	↗	15.2	15.1	0.1	0.99	98%	98%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R5	Bedroom	W14	↗	15.1	13.8	1.3	0.91											
		Bedroom	W15	↗	16.5	16.5	0.0	1.00	98%	97%	0.09	0.99	North	North	N/A	N/A	North	North	N/A
F03	R1	Bedroom	W1	↘	34.5	32.1	N/A	N/A											
		Bedroom	W2	↘	34.7	32.3	N/A	N/A	99%	99%	0.00	1.00	38	34	N/A	N/A	9	8	N/A
	R2	Bedroom	W3	↘	34.9	32.5	N/A	N/A											
		Bedroom	W4	↘	35.2	32.6	N/A	N/A	98%	98%	0.00	1.00	40	36	N/A	N/A	11	10	N/A
	R3	Bedroom	W5	↘	35.4	32.8	N/A	N/A											
		Bedroom	W6	↘	35.6	33.0	N/A	N/A											
		Bedroom	W7	↘	35.8	33.1	N/A	N/A											
		Bedroom	W8	↗	35.9	33.9	N/A	N/A											
		Bedroom	W9	↗	35.7	33.7	N/A	N/A											
		Bedroom	W10	↗	35.4	33.4	N/A	N/A											
		Bedroom	W11	↗	34.4	32.5	N/A	N/A	100%	100%	0.00	1.00	44	41	N/A	N/A	11	10	N/A
	R4	Bedroom	W12	↗	28.9	27.1	N/A	N/A											
		Bedroom	W13	↗	16.3	16.1	0.2	0.99	98%	98%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R5	Bedroom	W14	↗	16.2	15.1	1.1	0.93											
		Bedroom	W15	↗	17.9	17.8	0.1	0.99	98%	97%	0.04	1.00	North	North	N/A	N/A	North	North	N/A
F04	R1	Bedroom	W1	↘	36.1	34.0	N/A	N/A											
		Bedroom	W2	↘	36.3	34.1	N/A	N/A	99%	99%	0.00	1.00	41	38	N/A	N/A	12	11	N/A
	R2	Bedroom	W3	↘	36.4	34.2	N/A	N/A											
		Bedroom	W4	↘	36.6	34.3	N/A	N/A	98%	98%	0.00	1.00	42	39	N/A	N/A	13	12	N/A
	R3	Bedroom	W5	↘	36.7	34.4	N/A	N/A											
		Bedroom	W6	↘	36.8	34.5	N/A	N/A											
		Bedroom	W7	↘	36.9	34.5	N/A	N/A											
		Bedroom	W8	↗	37.0	35.2	N/A	N/A											
		Bedroom	W9	↗	36.8	35.1	N/A	N/A											
		Bedroom	W10	↗	36.5	34.7	N/A	N/A											
		Bedroom	W11	↗	35.4	33.8	N/A	N/A	100%	100%	0.00	1.00	46	43	N/A	N/A	13	12	N/A
	R4	Bedroom	W12	↗	29.9	28.3	N/A	N/A											
		Bedroom	W13	↗	17.0	16.9	0.1	0.99	98%	98%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R5	Bedroom	W14	↗	17.1	16.1	1.0	0.94											
		Bedroom	W15	↗	18.9	18.8	0.1	0.99	98%	97%	0.04	1.00	North	North	N/A	N/A	North	North	N/A
F05	R1	Bedroom	W1	↘	37.5	35.6	N/A	N/A											
		Bedroom	W2	↘	37.6	35.6	N/A	N/A	99%	99%	0.00	1.00	41	38	N/A	N/A	12	11	N/A
	R2	Bedroom	W3	↘	37.6	35.7	N/A	N/A											
		Bedroom	W4	↘	37.7	35.7	N/A	N/A	98%	98%	0.00	1.00	42	39	N/A	N/A	13	12	N/A
	R3	Bedroom	W5	↘	37.8	35.7	N/A	N/A											
		Bedroom	W6	↘	37.8	35.7	N/A	N/A											
		Bedroom	W7	↘	37.9	35.8	N/A	N/A											
		Bedroom	W8	↗	37.8	36.2	N/A	N/A											
		Bedroom	W9	↗	37.7	36.1	N/A	N/A											
		Bedroom	W10	↗	37.3	35.8	N/A	N/A											
		Bedroom	W11	↗	36.3	34.8	N/A	N/A	100%	100%	0.00	1.00	46	43	N/A	N/A	13	12	N/A
	R4	Bedroom	W12	↗	30.6	29.2	N/A	N/A											
		Bedroom	W13	↗	17.5	17.4	0.1	0.99	98%	98%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R5	Bedroom	W14	↗	17.7	16.8	0.9	0.95											
		Bedroom	W15	↗	19.6	19.5	0.1	0.99	98%	97%	0.03	1.00	North	North	N/A	N/A	North	North	N/A
F06	R1	Bedroom	W1	↘	38.6	36.9	N/A	N/A											

Property, room & window attributes				VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation	Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% rm)	Prop. (% rm)	Loss (m^2)	Pro./Ex. ratio	Annual (%APSH) Exis.	Prop.	Loss	Pro./Ex.	Winter (%APSH) Exis.	Prop.	Pro./Ex.
		Bedroom	W2 ↘	38.6	36.9	N/A	N/A	99%	99%	0.00	1.00	41	38	N/A	N/A	12	11	N/A
	R2	Bedroom	W3 ↘	38.6	36.9	N/A	N/A											
		Bedroom	W4 ↘	38.6	36.9	N/A	N/A	98%	98%	0.00	1.00	42	39	N/A	N/A	13	12	N/A
	R3	Bedroom	W5 ↘	38.6	36.8	N/A	N/A											
		Bedroom	W6 ↘	38.6	36.8	N/A	N/A											
		Bedroom	W7 ↘	38.6	36.8	N/A	N/A											
		Bedroom	W8 ↗	38.4	36.9	N/A	N/A											
		Bedroom	W9 ↗	38.2	36.8	N/A	N/A											
		Bedroom	W10 ↗	37.9	36.5	N/A	N/A											
		Bedroom	W11 ↗	36.8	35.5	N/A	N/A	100%	100%	0.00	1.00	46	44	N/A	N/A	13	12	N/A
	R4	Bedroom	W12 ↗	31.1	29.8	N/A	N/A											
		Bedroom	W13 ↗	17.9	17.8	0.1	0.99	98%	98%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R5	Bedroom	W14 ↗	18.1	17.2	0.9	0.95											
		Bedroom	W15 ↗	20.1	20.0	0.1	1.00	98%	97%	0.03	1.00	North	North	N/A	N/A	North	North	N/A

Co-op New Islington Academy – daylight, sunlight results without canopies and recessed balcony

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% rm)	Prop. (% rm)	Loss (m^2)	Pro./Ex. ratio	Annual (%APSH) Exis.	Prop.	Loss	Pro./Ex.	Winter (%APSH) Exis.	Prop.	Pro./Ex.
Note: Red = outside BRE guidelines; Blue = gain in light																			
New Islington School																			
F00	R1	Class Room	W1	↙	35.4	22.6	12.8	0.64											
		Class Room	W5	↙	35.7	23.4	12.3	0.66	100%	46%	33.90	0.46	76.0	56.8	N/A	N/A	26.6	12.1	N/A
	R2	Class Room	W2	↙	35.9	22.9	13.0	0.64											
		Class Room	W6	↙	36.2	23.7	12.5	0.65	99%	51%	30.61	0.51	75.9	56.9	N/A	N/A	26.5	12.5	N/A
	R3	Class Room	W3	↙	36.0	23.0	13.0	0.64											
		Class Room	W7	↙	36.3	23.8	12.5	0.66	100%	48%	32.35	0.49	76.6	57.3	N/A	N/A	27.4	13.9	N/A
	R4	Class Room	W4	↙	36.1	23.4	12.7	0.65											
		Class Room	W8	↙	36.4	24.1	12.3	0.66	99%	46%	33.89	0.46	76.2	57.2	N/A	N/A	27.0	14.4	N/A
F01	R1	Class Room	W1	↙	33.8	26.1	7.7	0.77	100%	100%	0.00	1.00	65.6	52.2	N/A	N/A	20.7	7.7	N/A
	R3	Class Room	W3	↙	36.3	24.7	11.6	0.68	100%	43%	35.49	0.44	73.3	55.9	N/A	N/A	26.3	12.2	N/A
	R4	Class Room	W4	↙	36.5	24.7	11.8	0.68	99%	49%	31.61	0.50	73.5	56.3	N/A	N/A	26.5	12.9	N/A
	R5	Class Room	W5	↙	36.6	24.8	11.8	0.68	100%	44%	34.80	0.45	73.9	56.6	N/A	N/A	27.0	14.0	N/A
	R6	Class Room	W6	↙	36.6	25.1	11.5	0.69	99%	44%	34.97	0.44	73.4	56.8	N/A	N/A	26.5	14.6	N/A

Co-op New Islington Academy – solar radiation results to rooftop solar panels

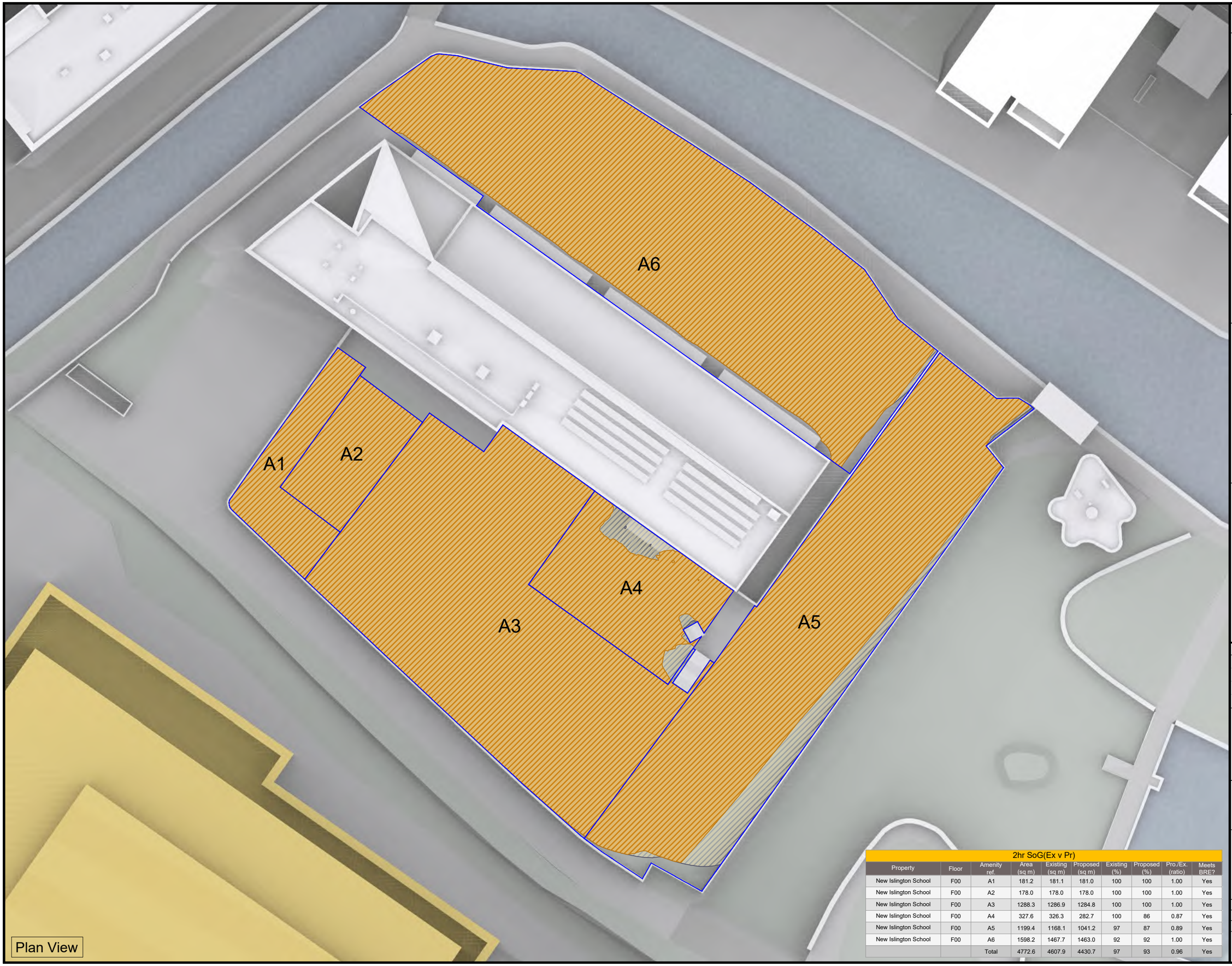
Solar Photovoltaic

Solar Panel				Mean Solar Irradiation			
PV panel ref.	Array ref.	Slope (degrees)	PV Area (m^2)	Existing (kWh/m^2)	Proposed (kWh/m^2)	Loss (kWh/m^2)	Pr/Ex ratio
Note: Red = outside BRE guidelines							
Co-op Academy New Islington (school)							
PV_1	Array W1	10	1.69	1,050	940	110	0.90
PV_2	"	10	1.69	1,050	940	110	0.90
PV_3	"	10	1.69	1,050	941	110	0.90
PV_4	"	10	1.69	1,051	941	110	0.90
PV_5	"	10	1.69	1,051	941	110	0.90
PV_6	"	10	1.69	1,051	941	110	0.90
PV_7	"	10	1.69	1,051	941	110	0.90
PV_8	"	10	1.69	1,051	941	110	0.90
PV_9	Array W2	10	1.69	1,042	946	96	0.91
PV_10	"	10	1.69	1,041	945	96	0.91
PV_11	"	10	1.69	1,041	945	96	0.91
PV_12	"	10	1.69	1,040	945	96	0.91
PV_13	"	10	1.69	1,040	945	96	0.91
PV_14	"	10	1.69	1,040	944	96	0.91
PV_15	"	10	1.69	1,040	944	96	0.91
PV_16	"	10	1.69	1,040	944	96	0.91
PV_17	Array W3	10	1.69	1,040	948	92	0.91
PV_18	"	10	1.69	1,040	948	92	0.91
PV_19	"	10	1.69	1,040	949	91	0.91
PV_20	"	10	1.69	1,040	949	91	0.91
PV_21	"	10	1.69	1,040	949	91	0.91
PV_22	"	10	1.69	1,041	949	91	0.91
PV_23	"	10	1.69	1,041	950	91	0.91
PV_24	"	10	1.69	1,042	950	91	0.91
PV_25	Array W4	10	1.69	1,041	953	87	0.92
PV_26	"	10	1.69	1,040	953	87	0.92
PV_27	"	10	1.69	1,040	953	87	0.92
PV_28	"	10	1.69	1,040	953	87	0.92
PV_29	"	10	1.69	1,039	952	87	0.92
PV_30	"	10	1.69	1,039	952	87	0.92
PV_31	"	10	1.69	1,039	952	88	0.92
PV_32	"	10	1.69	1,040	951	88	0.92
PV_33	Array W8	10	1.68	1,052	942	110	0.90
PV_34	"	10	1.68	1,052	943	109	0.90
PV_35	"	10	1.68	1,052	943	109	0.90
PV_36	"	10	1.68	1,052	944	108	0.90
PV_37	"	10	1.68	1,052	945	107	0.90
PV_38	"	10	1.68	1,052	946	107	0.90
PV_39	"	10	1.68	1,052	947	106	0.90
PV_40	Array W7	10	1.68	1,042	950	92	0.91
PV_41	"	10	1.68	1,042	950	92	0.91
PV_42	"	10	1.68	1,042	949	93	0.91
PV_43	"	10	1.68	1,042	948	94	0.91
PV_44	"	10	1.68	1,041	947	94	0.91

Solar Photovoltaic

Solar Panel				Mean Solar Irradiation			
PV panel ref.	Array ref.	Slope (degrees)	PV Area (m^2)	Existing (kWh/m^2)	Proposed (kWh/m^2)	Loss (kWh/m^2)	Pr/Ex ratio
PV_45	"	10	1.68	1,041	947	95	0.91
PV_46	"	10	1.68	1,042	946	95	0.91
PV_47	Array W6	10	1.68	1,042	951	91	0.91
PV_48	"	10	1.68	1,041	951	90	0.91
PV_49	"	10	1.68	1,041	952	90	0.91
PV_50	"	10	1.68	1,042	952	89	0.91
PV_51	"	10	1.68	1,042	953	89	0.91
PV_52	"	10	1.68	1,042	954	88	0.92
PV_53	"	10	1.68	1,042	955	87	0.92
PV_54	Array W5	10	1.68	1,039	956	83	0.92
PV_55	"	10	1.68	1,041	957	84	0.92
PV_56	"	10	1.68	1,041	957	84	0.92
PV_57	"	10	1.68	1,041	956	85	0.92
PV_58	"	10	1.68	1,041	955	85	0.92
PV_59	"	10	1.68	1,041	955	86	0.92
PV_60	"	10	1.68	1,041	955	86	0.92

11.1.6 Sun-on-ground results for Co-op Academy New Islington playgrounds



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

- Existing 2-Hr Sunlit Area
- Proposed 2-Hr Sunlit Area
- A02 — Amenity Area Number

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

For it to appear adequately sunlit throughout the year at least half of a garden or amenity area should receive at least two hours of sunlight on 21 March. If as a result of new development an existing garden or amenity area does not meet the above, and the area which can receive two hours of sun on 21 March is less than 0.8 times its former value, then the loss of light is likely to be noticeable

2hr SoG(Ex v Pr)

Property	Floor	Amenity ref.	Area (sq m)	Existing (sq m)	Proposed (sq m)	Existing (%)	Proposed (%)	Pro./Ex. (ratio)	Meets BRE?
New Islington School	F00	A1	181.2	181.1	181.0	100	100	1.00	Yes
New Islington School	F00	A2	178.0	178.0	178.0	100	100	1.00	Yes
New Islington School	F00	A3	1288.3	1286.9	1284.8	100	100	1.00	Yes
New Islington School	F00	A4	327.6	326.3	282.7	100	86	0.87	Yes
New Islington School	F00	A5	1199.4	1168.1	1041.2	97	87	0.89	Yes
New Islington School	F00	A6	1598.2	1467.7	1463.0	92	92	1.00	Yes
		Total	4772.6	4607.9	4430.7	97	93	0.96	Yes

REV	Description	Drawn	Date

London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

www.delvapatmanredler.co.uk
info@delvapatmanredler.co.uk

TITLE:

MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

TWO-HOURS SUN-ON-GROUND STUDY
Plan View
New Islington School

DRAWN: MZ	JOB NBR: 23325
SCALE: NTS	
DATE: 17.06.2024	
DWG NO: SOG-001	REV: -

11.1.7 Transient overshadowing plots









NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

- Existing Baseline
- Proposed
- Neighboring Property

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

-

REV	Description	Drawn	Date

London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

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TITLE:

MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

TRANSIENT SHADOW STUDY
EXISTING BASELINE SCENARIO
21st March

DRAWN: MZ	JOB NBR: 23325
SCALE: 1:1250@A3	
DATE: 18.06.2024	
DWG NO: TOS-EXI-BASE-001	REV: -





NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

- Existing Baseline
- Proposed
- Neighboring Property

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

-

REV	Description	Drawn	Date

London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

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TITLE:

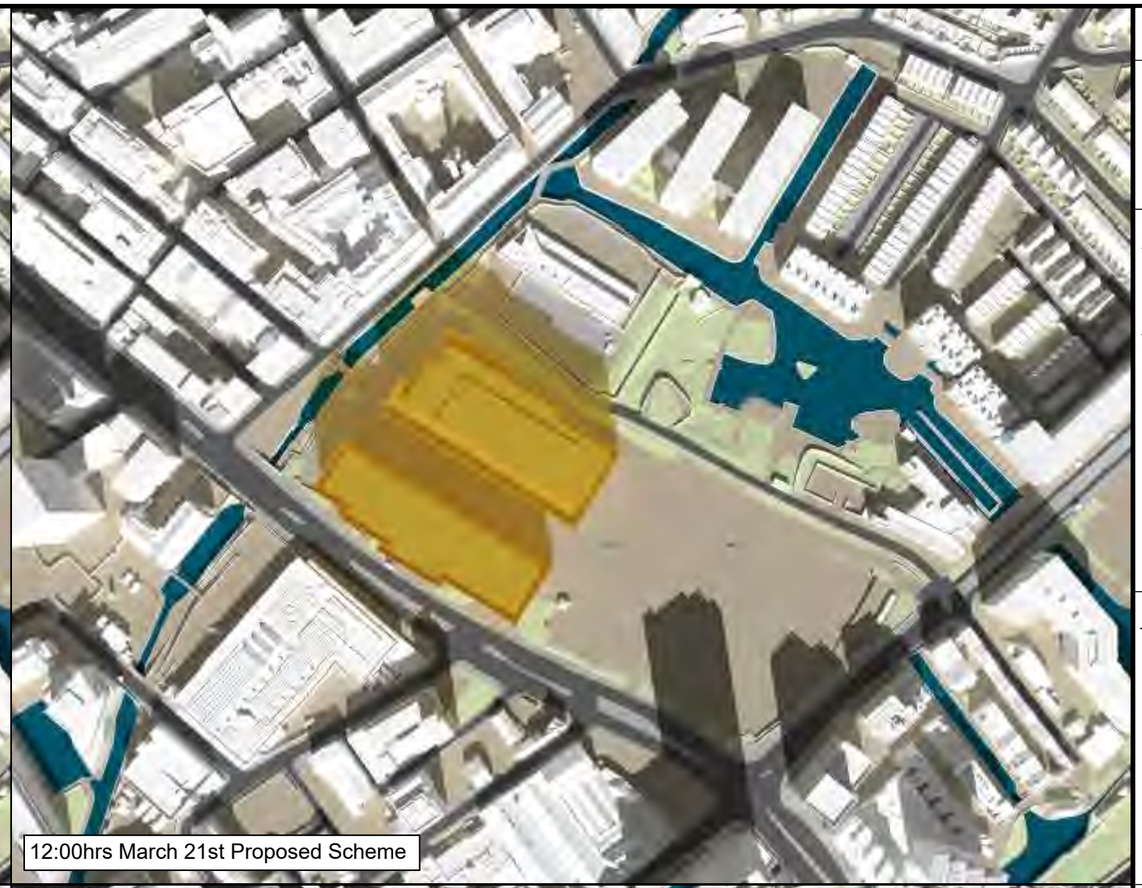
MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

TRANSIENT SHADOW STUDY
EXISTING BASELINE SCENARIO
21st March

DRAWN: MZ	JOB NBR: 23325
SCALE: 1:1250@A3	
DATE: 18.06.2024	
DWG NO: TOS-EXI-BASE-002	REV: -









NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

- Existing Baseline
- Proposed
- Neighboring Property

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

-

REV	Description	Drawn	Date

London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

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TITLE:

MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

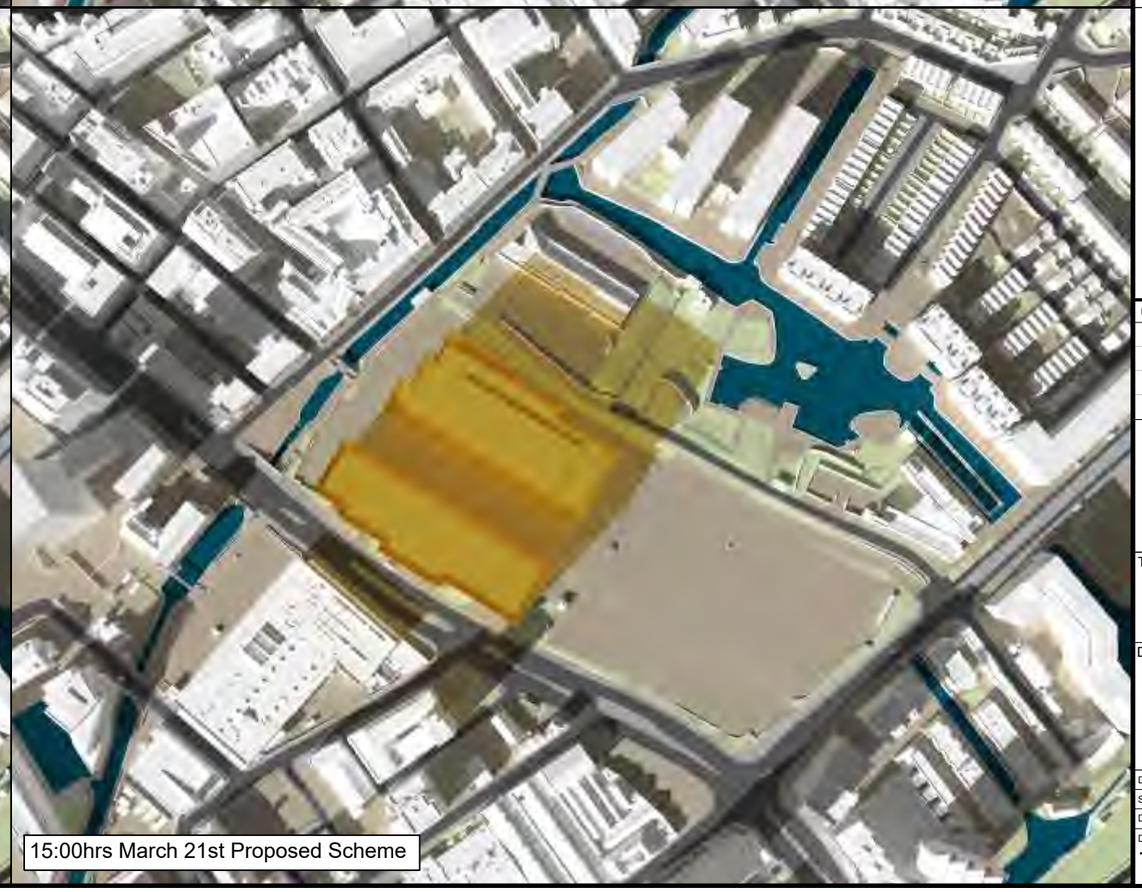
TRANSIENT SHADOW STUDY
EXISTING BASELINE SCENARIO
21st March

DRAWN: MZ	JOB NBR: 23325
SCALE: 1:1250@A3	
DATE: 18.06.2024	
DWG NO: TOS-EXI-BASE-003	REV: -









NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

- Existing Baseline
- Proposed
- Neighboring Property

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

-

REV	Description	Drawn	Date

London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

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TITLE:

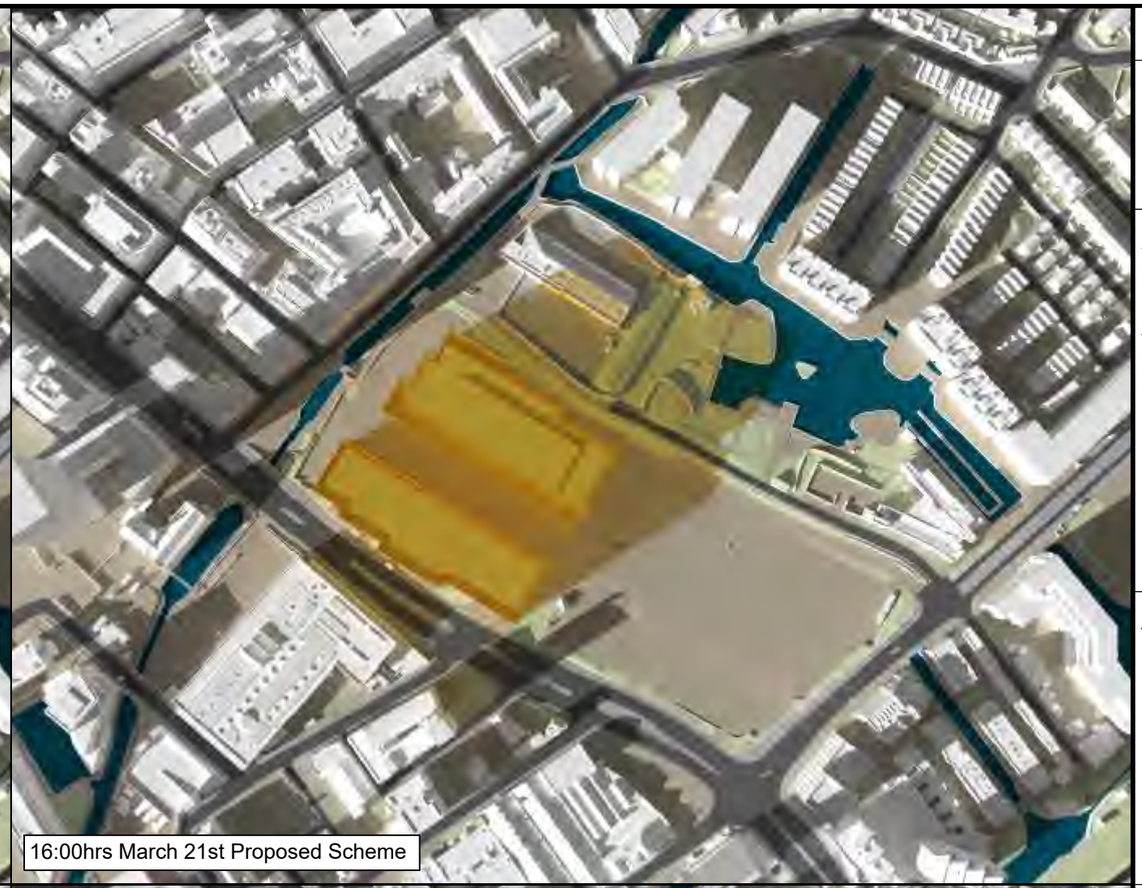
MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

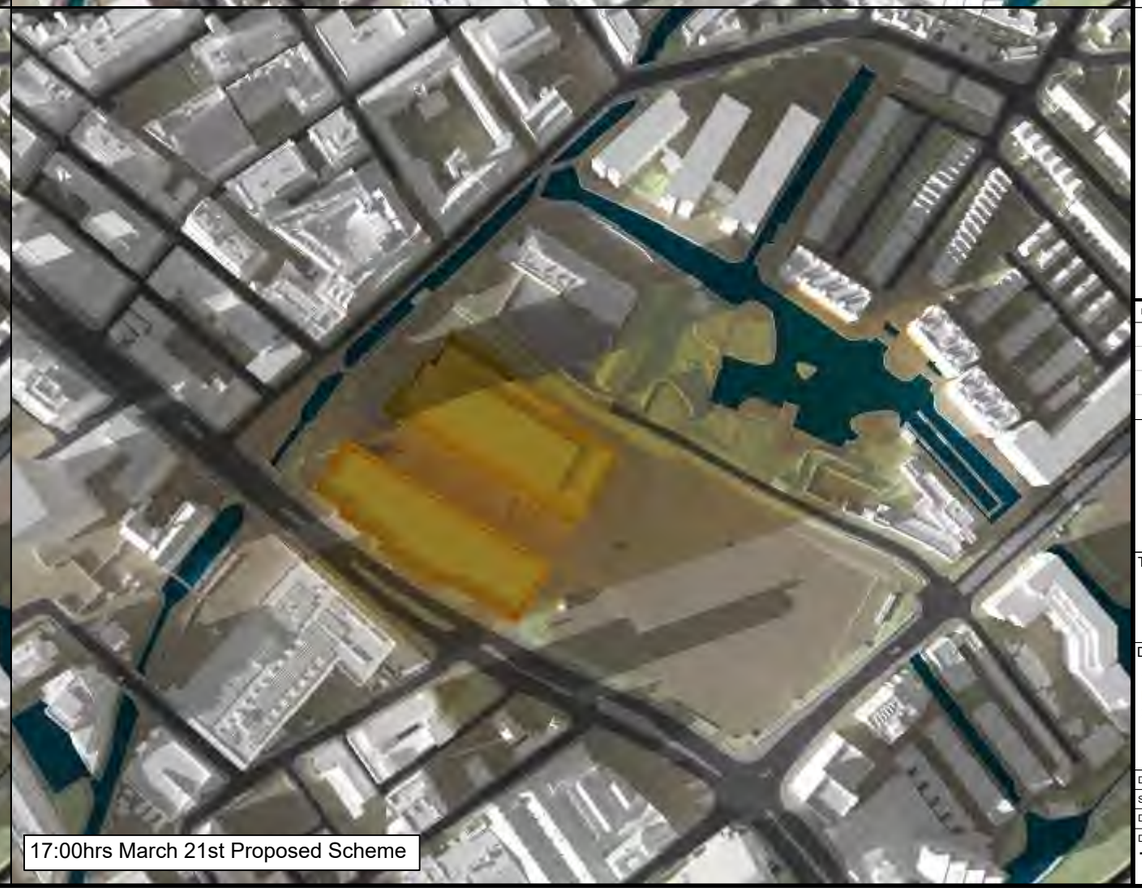
TRANSIENT SHADOW STUDY
EXISTING BASELINE SCENARIO
21st March

DRAWN: MZ	JOB NBR: 23325
SCALE: 1:1250@A3	
DATE: 18.06.2024	
DWG NO: TOS-EXI-BASE-004	REV: -









NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

- Existing Baseline
- Proposed
- Neighboring Property

SOURCE DATA:

Existing Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415

NOTES:

-

REV	Description	Drawn	Date

London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

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TITLE:

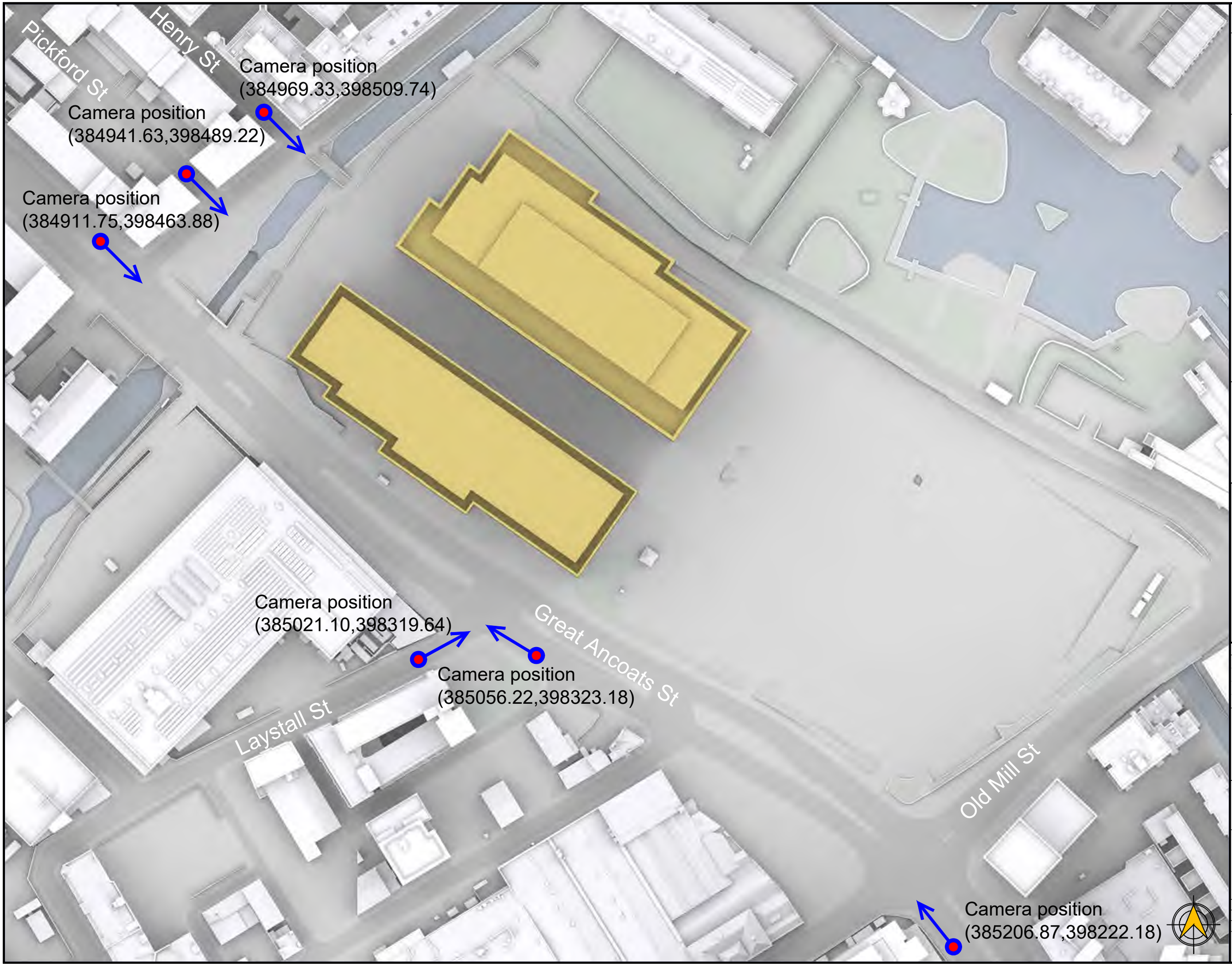
MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:

TRANSIENT SHADOW STUDY
EXISTING BASELINE SCENARIO
21st March

DRAWN: MZ	JOB NBR: 23325
SCALE: 1:1250@A3	
DATE: 18.06.2024	
DWG NO: TOS-EXI-BASE-004	REV: -

11.1.8 Solar glare results



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

see key plan for view location & direction

SOURCE DATA:

Historic Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024 and 20.06.2024 , 26.06.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415 & 240625_MDC SIP Entrance Railings Model.dwg

NOTES:
XXX

REV	Description	Drawn	Date

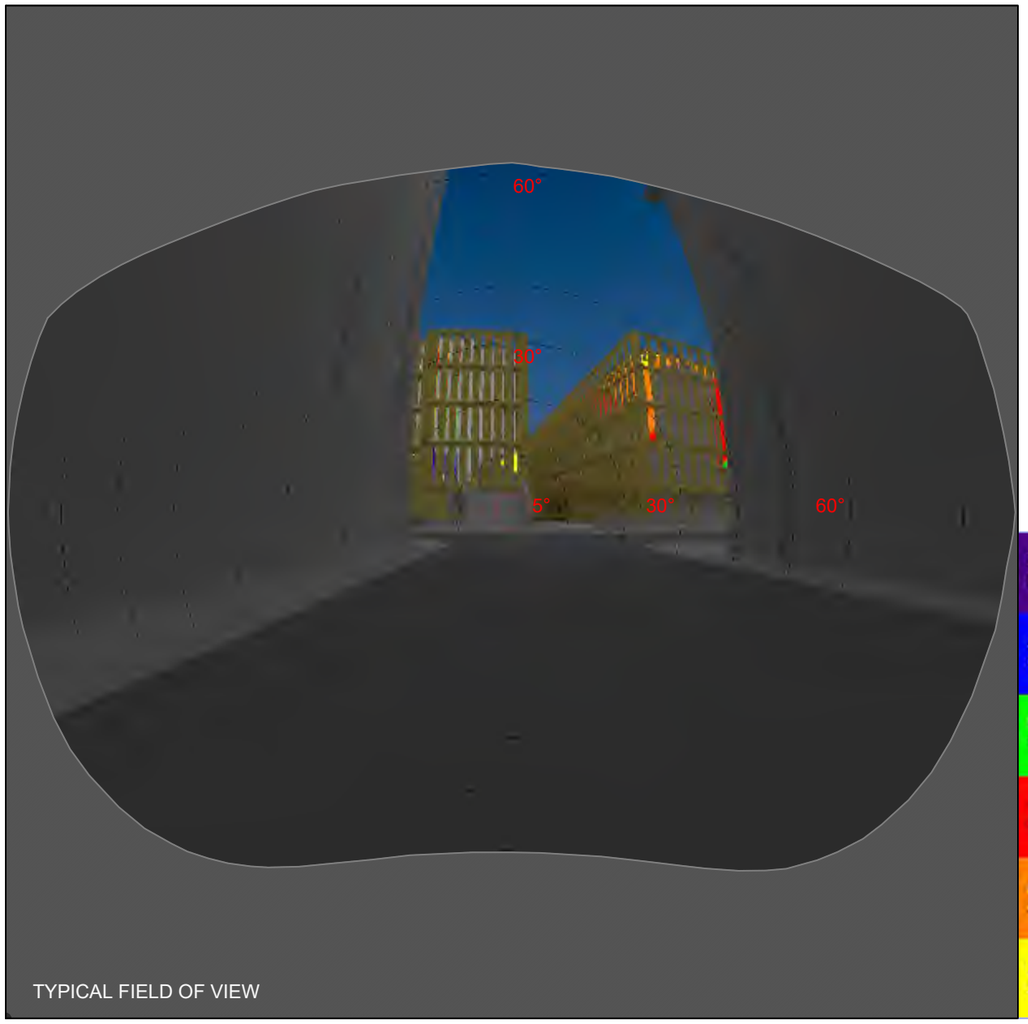
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Liverpool 0151 242 0980
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TITLE:
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MANCHESTER
M4 6DJ

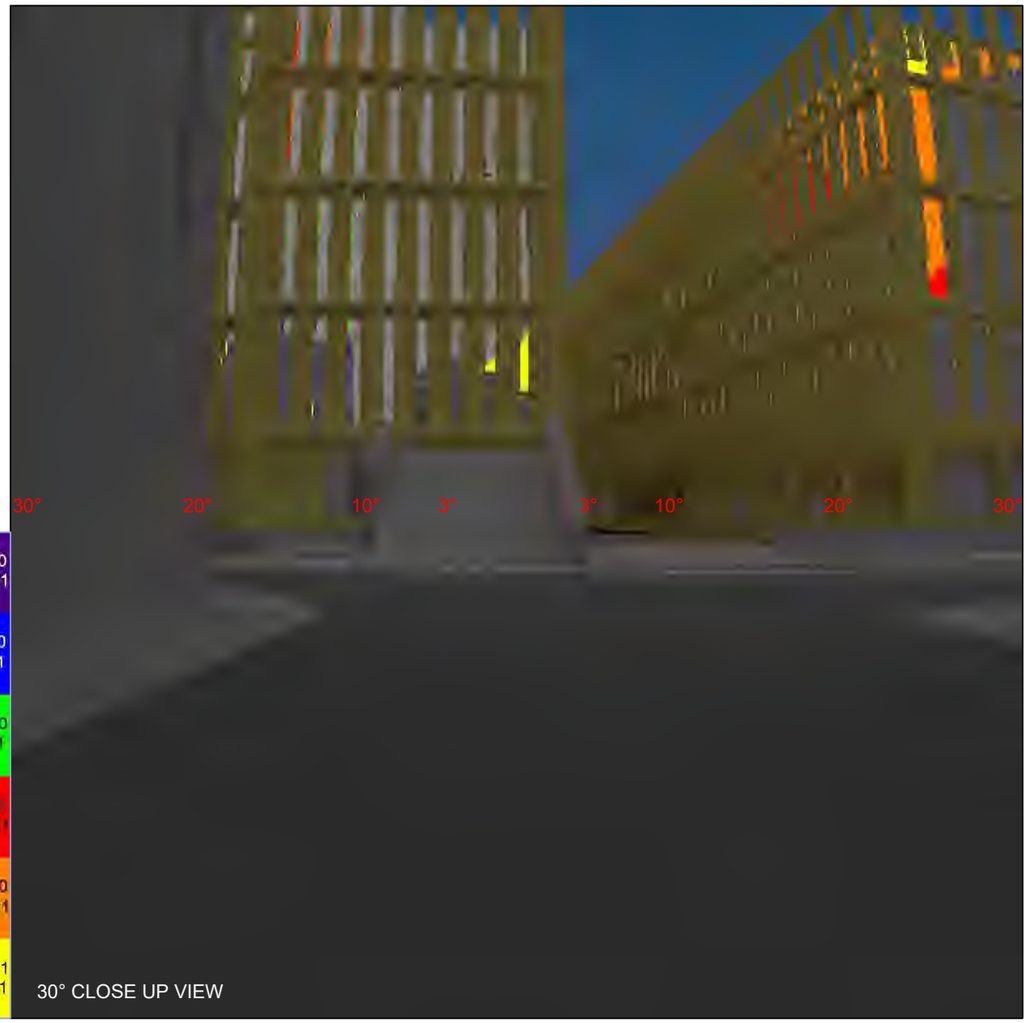
DRAWING:
SOLAR GLARE ANALYSIS
Plan and 3D Views

DRAWN: RP	JOB NBR: 23325
SCALE: N/A	
DATE: 17/06/2024	
DWG NO: GLR_000	REV: -



TYPICAL FIELD OF VIEW





30° CLOSE UP VIEW





KEY PLAN

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

see key plan for view location & direction

SOURCE DATA:

Historic Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoats Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024 and 20.06.2024 , 26.06.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415 & 240625_MDC SIP Entrance Railings Model.dwg

NOTES:
XXX

REV	Description	Drawn	Date

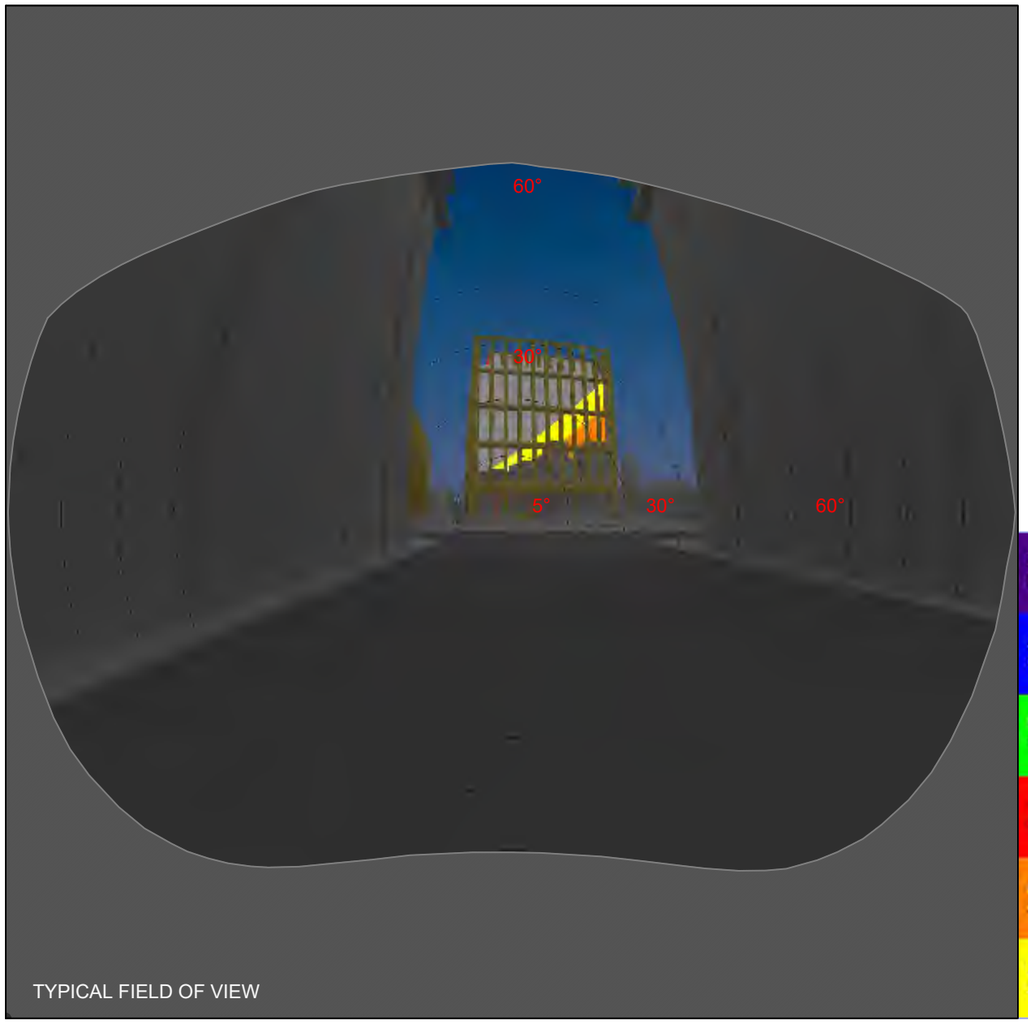
London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

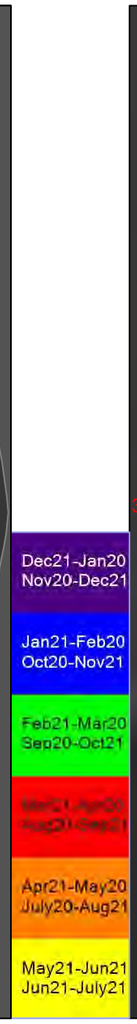
www.delvapatmanredler.co.uk
info@delvapatmanredler.co.uk

TITLE:
MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:
SOLAR GLARE ANALYSIS
Plan and 3D Views

DRAWN: RP	JOB NBR: 23325
SCALE: N/A	
DATE: 17/06/2024	
DWG NO: GLR_001	REV: -











NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

see key plan for view location & direction

SOURCE DATA:

Historic Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoasts Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024 and 20.06.2024 , 26.06.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415 & 240625_MDC SIP Entrance Railings Model.dwg

NOTES:
XXX

REV	Description	Drawn	Date

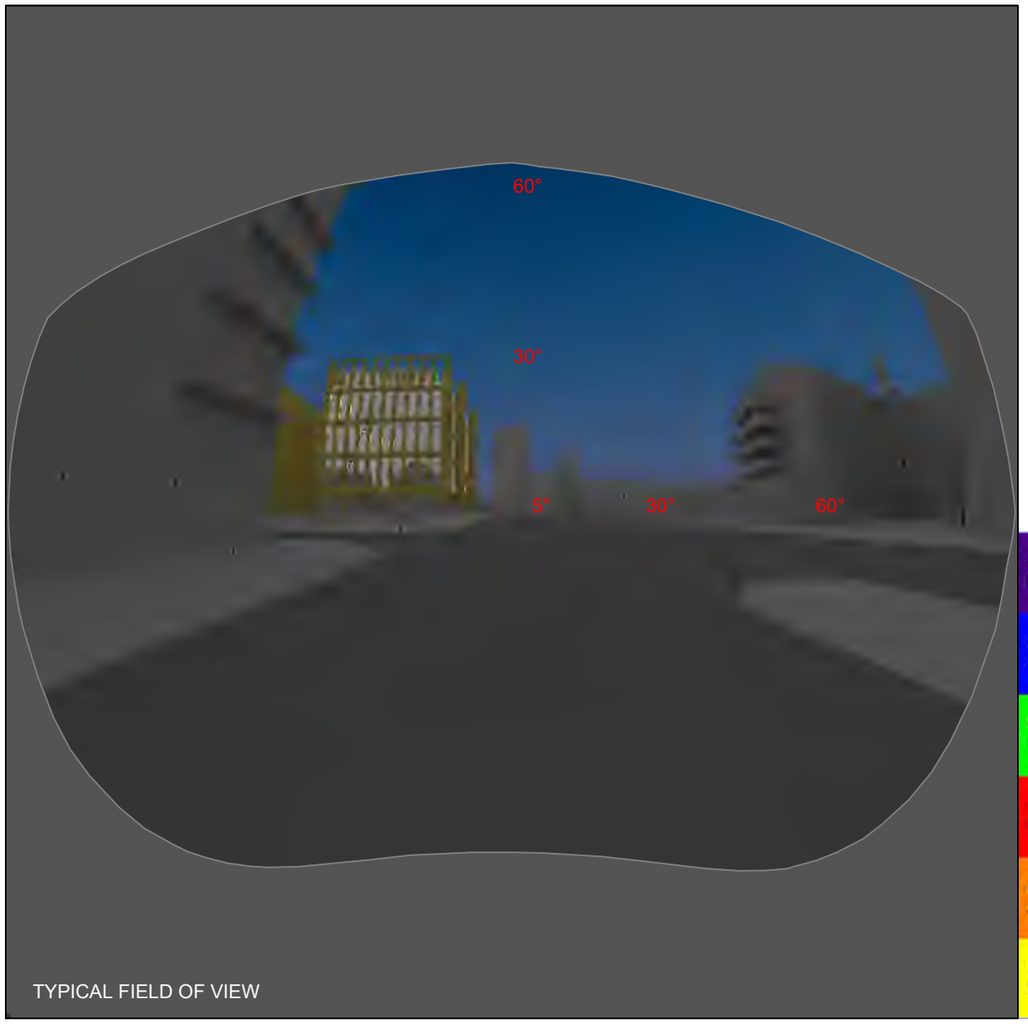
London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

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TITLE:
MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:
SOLAR GLARE ANALYSIS
Plan and 3D Views

DRAWN: RP	JOB NBR: 23325
SCALE: N/A	
DATE: 17/06/2024	
DWG NO: GLR_002	REV: -



TYPICAL FIELD OF VIEW

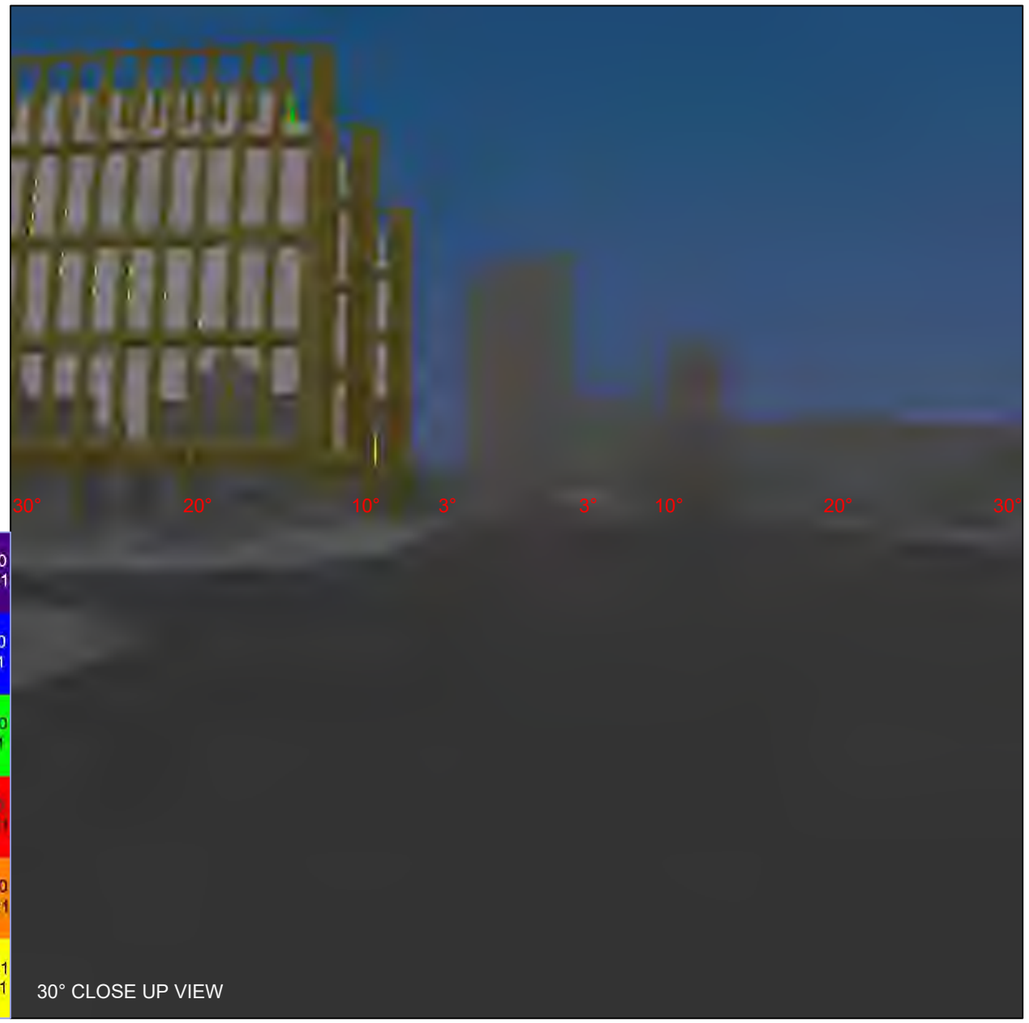
Dec21-Jan20
Nov20-Dec21

Jan21-Feb20
Oct20-Nov21

Feb21-Mar20
Sep20-Oct21

Apr21-May20
July20-Aug21

May21-Jun21
Jun21-July21



30° CLOSE UP VIEW



KEY PLAN

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

see key plan for view location & direction

SOURCE DATA:

Historic Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoats Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024 and 20.06.2024 , 26.06.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415 & 240625_MDC SIP Entrance Railings Model.dwg

NOTES:
XXX

REV	Description	Drawn	Date

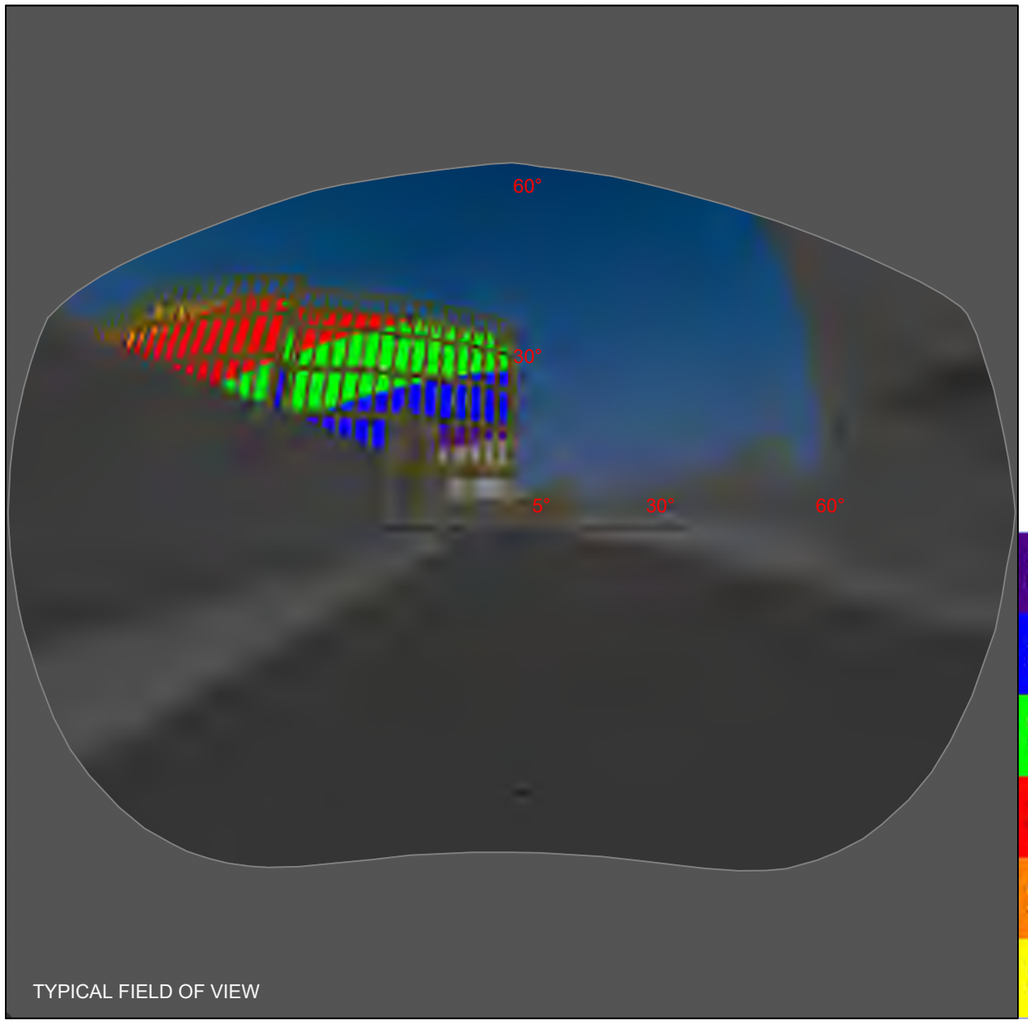
London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

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TITLE:
MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

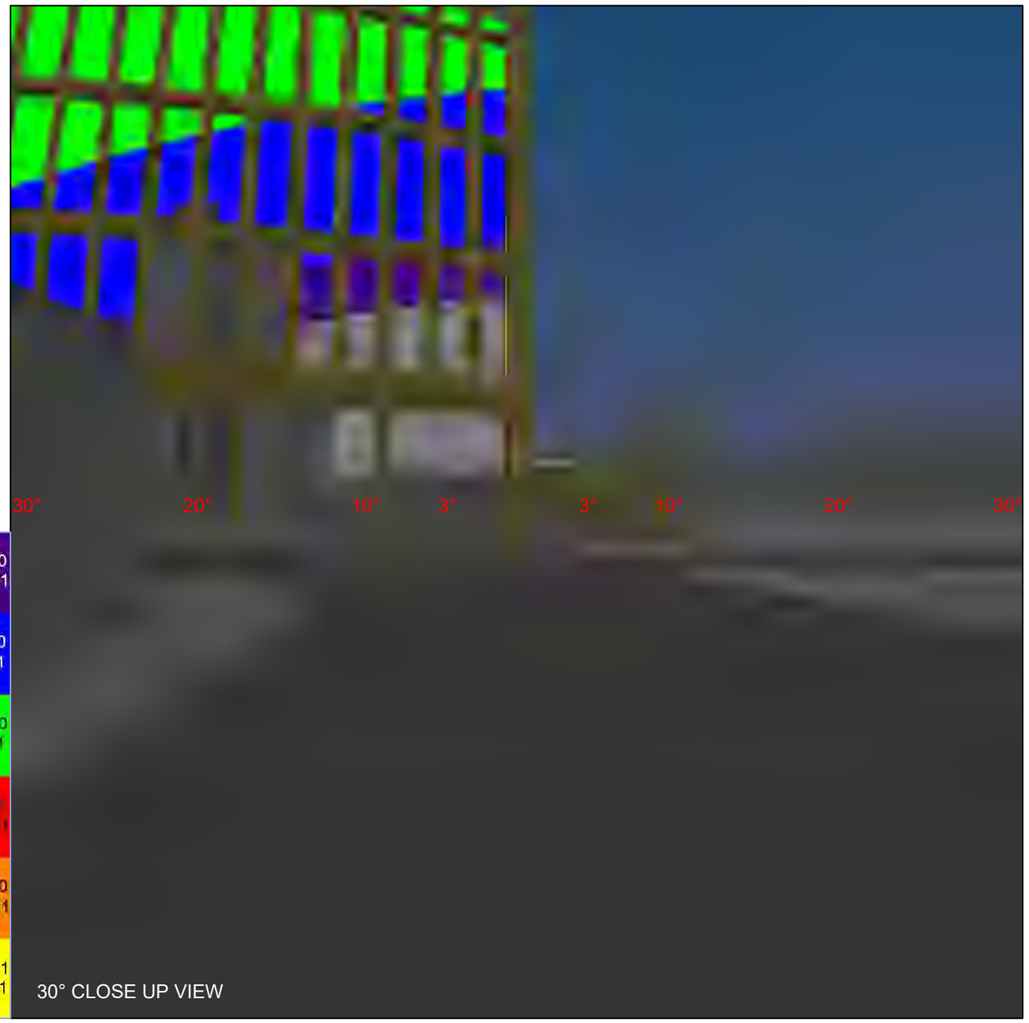
DRAWING:
SOLAR GLARE ANALYSIS
Plan and 3D Views

DRAWN: RP	JOB NBR: 23325
SCALE: N/A	
DATE: 17/06/2024	
DWG NO: GLR_003	REV: -



TYPICAL FIELD OF VIEW





30° CLOSE UP VIEW





KEY PLAN

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

see key plan for view location & direction

SOURCE DATA:

Historic Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoats Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024 and 20.06.2024 , 26.06.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415 & 240625_MDC SIP Entrance Railings Model.dwg

NOTES:
XXX

REV	Description	Drawn	Date

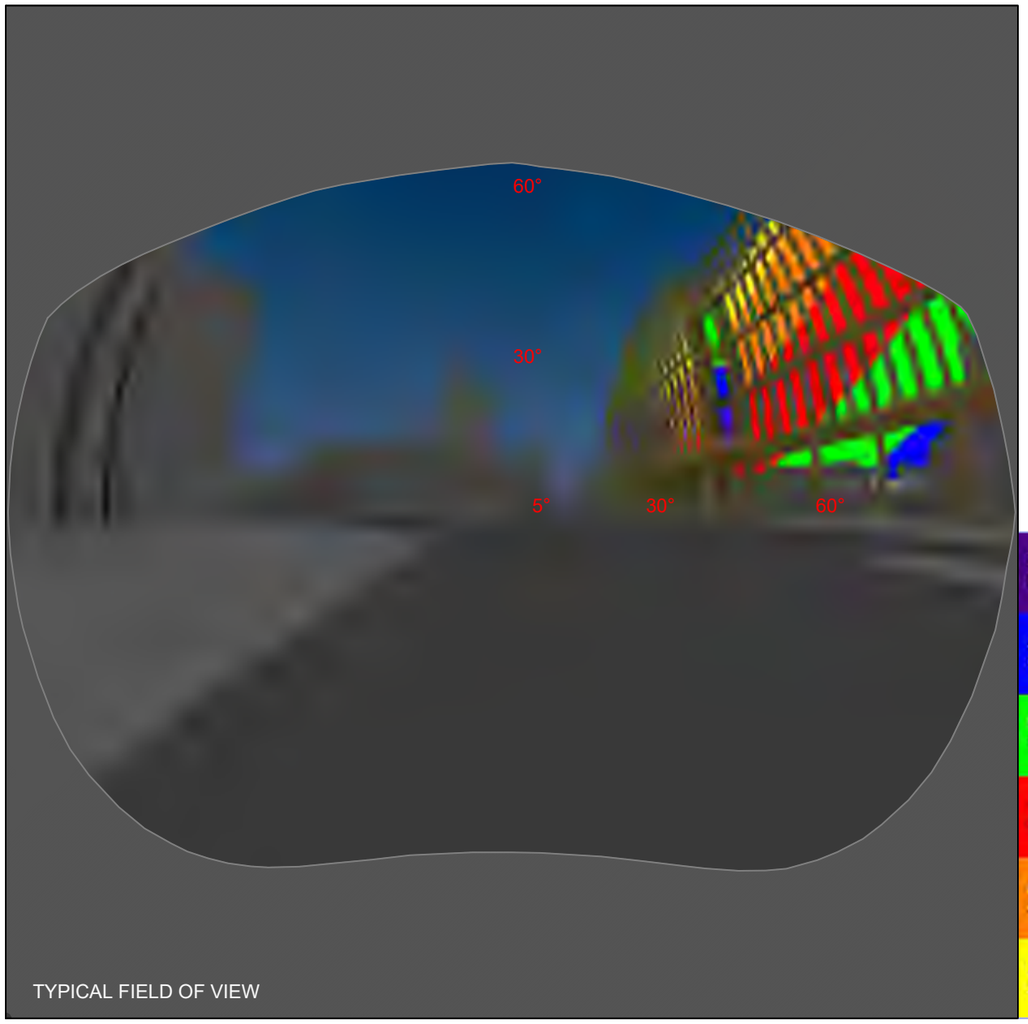
London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

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TITLE:
MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

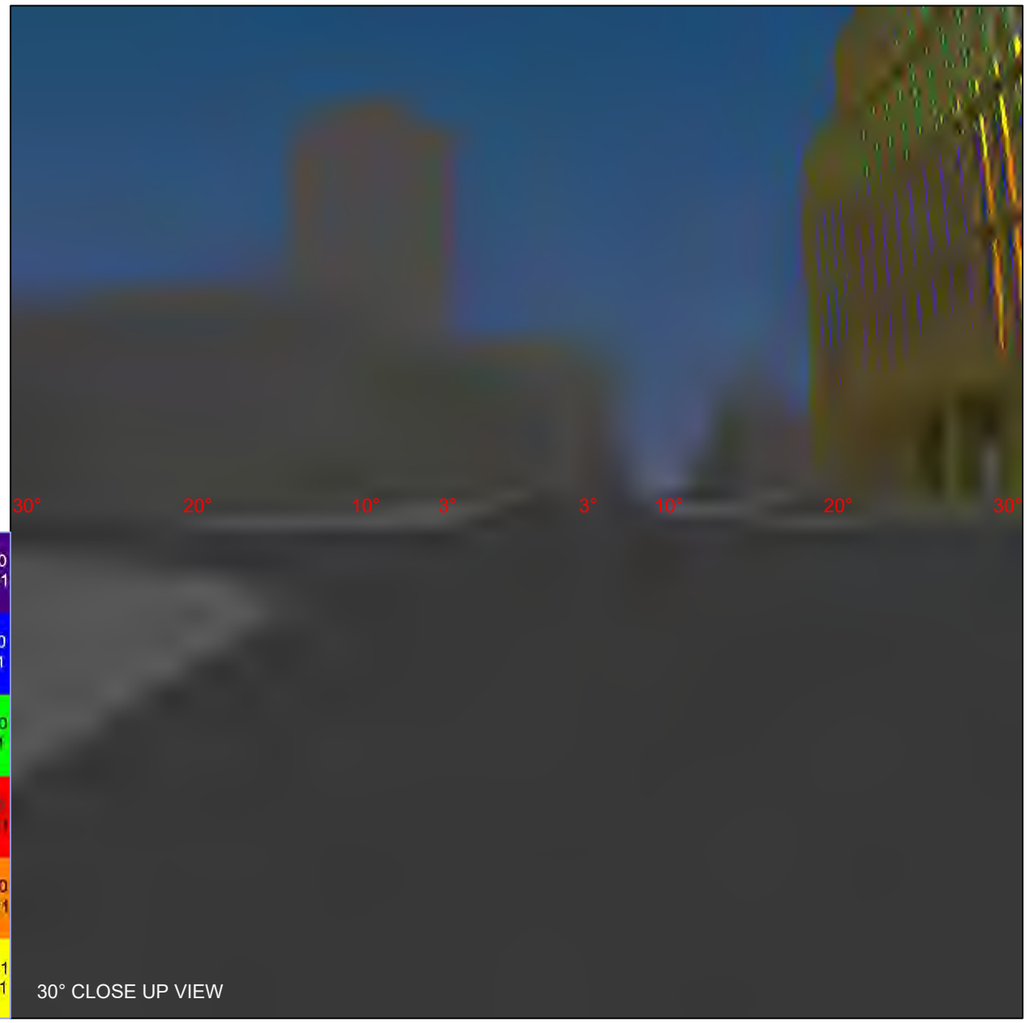
DRAWING:
SOLAR GLARE ANALYSIS
Plan and 3D Views

DRAWN: RP	JOB NBR: 23325
SCALE: N/A	
DATE: 17/06/2024	
DWG NO: GLR_004	REV: -

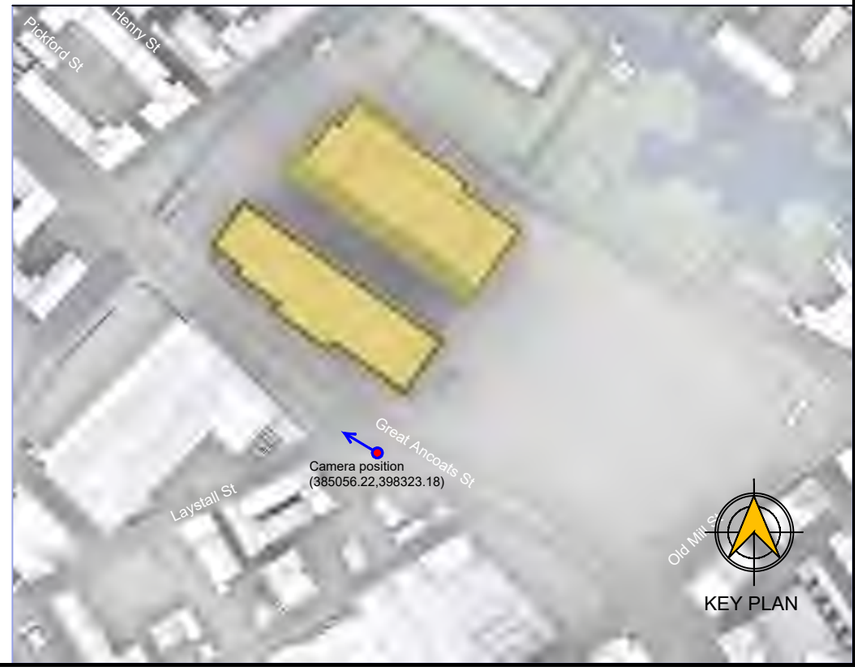


TYPICAL FIELD OF VIEW

Dec21-Jan20
Nov20-Dec21
Jan21-Feb20
Oct20-Nov21
Feb21-Mar20
Sep20-Oct21
Mar21-Apr20
Aug20-Sep21
Apr21-May20
July20-Aug21
May21-Jun21
Jun21-July21



30° CLOSE UP VIEW



KEY PLAN

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

see key plan for view location & direction

SOURCE DATA:

Historic Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoats Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024 and 20.06.2024 , 26.06.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415 & 240625_MDC SIP Entrance Railings Model.dwg

NOTES:
XXX

REV	Description	Drawn	Date

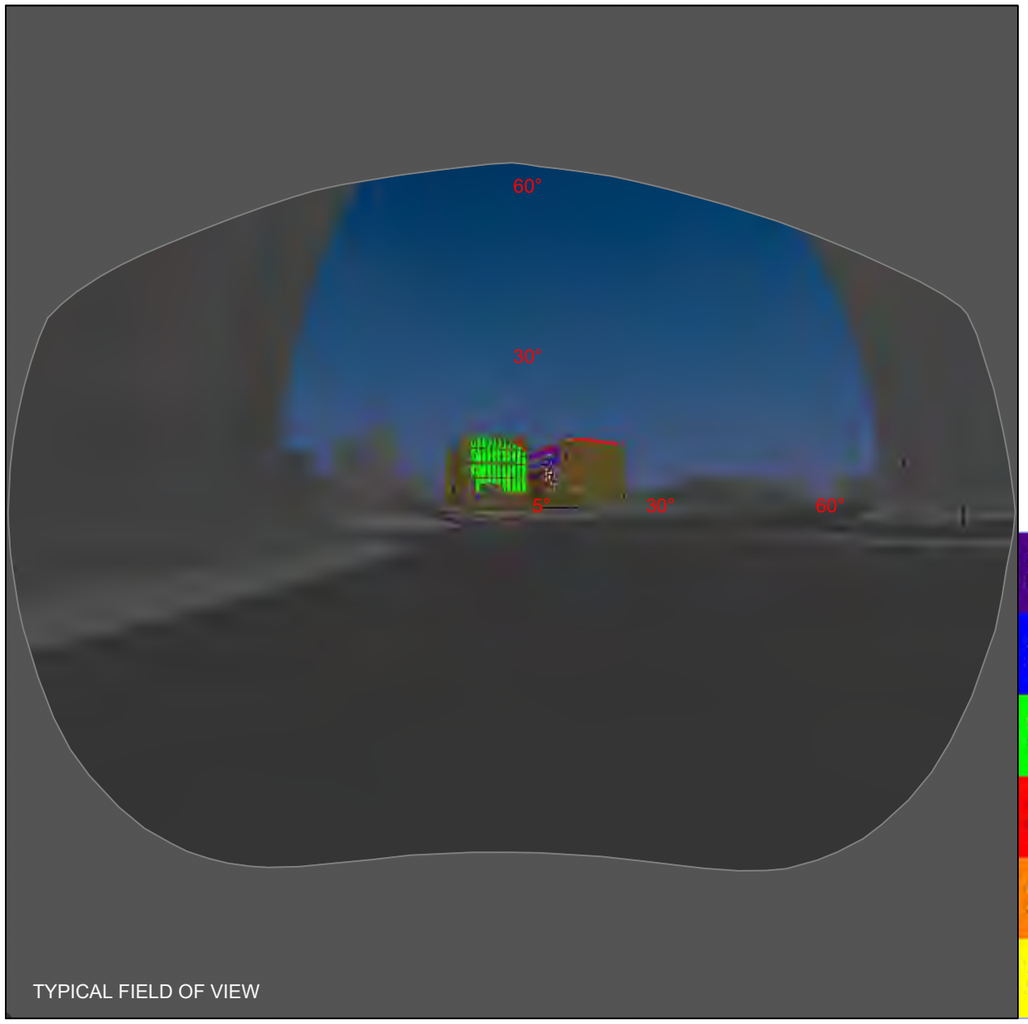
London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

www.delvapatmanredler.co.uk
info@delvapatmanredler.co.uk

TITLE:
MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:
SOLAR GLARE ANALYSIS
Plan and 3D Views

DRAWN: RP	JOB NBR: 23325
SCALE: N/A	
DATE: 17/06/2024	
DWG NO: GLR_005	REV: -



TYPICAL FIELD OF VIEW

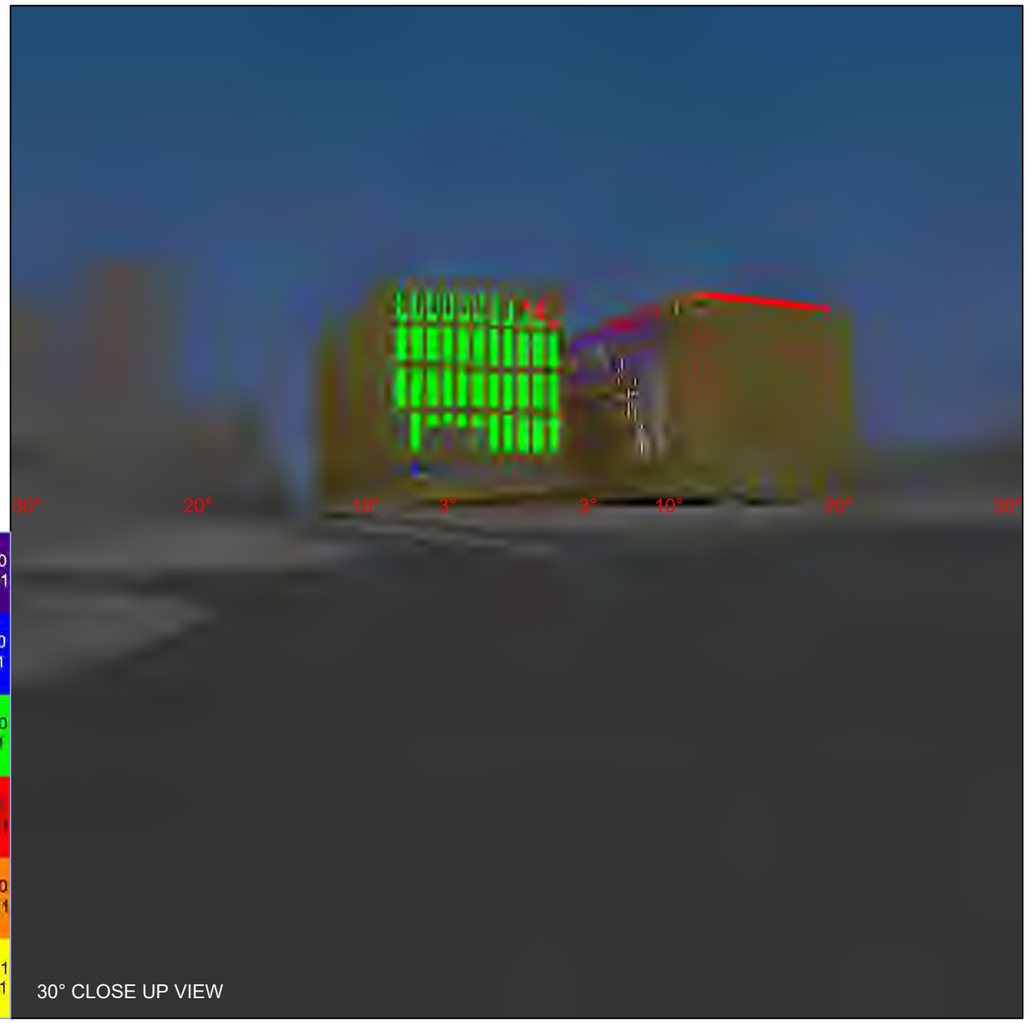
Dec21-Jan20
Nov20-Dec21

Jan21-Feb20
Oct20-Nov21

Feb21-Mar20
Sep20-Oct21

Apr21-May20
July20-Aug21

May21-Jun21
Jun21-July21



30° CLOSE UP VIEW





KEY PLAN

Camera position
(385206.87,398222.18)

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

see key plan for view location & direction

SOURCE DATA:

Historic Baseline and Surrounding Buildings:

DPR 3D Model Survey received 12-07-2023:
- 2023-07-12 - 23325 - 23339 - Great Ancoats Street Manchester - MASTER MODEL

Proposed Building:

3D Model revceived from Atkins 30.05.2024 and 20.06.2024 , 26.06.2024:
- MDC-ATK-XX-XX-M3-A-000000 _Massing Model_240415 & 240625_MDC SIP Entrance Railings Model.dwg

NOTES:
XXX

REV	Description	Drawn	Date

London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

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info@delvapatmanredler.co.uk

TITLE:
MANCHESTER DIGITAL CAMPUS
MANCHESTER
M4 6DJ

DRAWING:
SOLAR GLARE ANALYSIS
Plan and 3D Views

DRAWN: RP	JOB NBR: 23325
SCALE: N/A	
DATE: 17/06/2024	
DWG NO: GLR_006	REV: -

11.1.9 Cumulative results: daylight and sunlight results tables

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Cum. (% VSC)	Loss (% VSC)	Pro/Cum ratio	Exis. (% rm)	Cum. (% rm)	Loss (m^2)	Pro/Cum ratio	Annual (%APSH) Exis.	Cum.	Loss	Pro/Cum	Winter (%APSH) Exis.	Cum.	Pro/Cum
Note: Red = outside BRE guidelines; Blue = gain in light																			
New Islington School																			
F00	R1	Class Room	W1	↙	17.5	4.6	12.9	0.26											
		Class Room	W5	↙	35.7	23.4	12.3	0.66	99%	45%	33.92	0.46	76	59	N/A	N/A	26	12	N/A
	R2	Class Room	W2	↙	17.7	4.6	13.1	0.26											
		Class Room	W6	↙	36.2	23.7	12.5	0.65	97%	48%	30.80	0.50	76	58	N/A	N/A	26	12	N/A
	R3	Class Room	W3	↙	9.1	1.4	7.7	0.15											
		Class Room	W7	↙	36.3	23.8	12.5	0.66	99%	48%	32.44	0.48	77	59	N/A	N/A	27	13	N/A
	R4	Class Room	W4	↙	9.3	2.1	7.2	0.23											
		Class Room	W8	↙	36.4	24.1	12.3	0.66	96%	42%	34.60	0.43	77	59	N/A	N/A	27	13	N/A
F01	R1	Class Room	W1	↙	17.2	9.5	7.7	0.55	100%	100%	0.00	1.00	31.4	19.6	11.8	0.62	18.4	6.6	N/A
	R3	Class Room	W3	↙	36.3	24.7	11.6	0.68	100%	43%	35.48	0.44	73	56	N/A	N/A	24	10	N/A
	R4	Class Room	W4	↙	36.5	24.7	11.8	0.68	99%	49%	31.61	0.50	74	57	N/A	N/A	24	10	N/A
	R5	Class Room	W5	↙	36.6	24.8	11.8	0.68	100%	44%	34.80	0.45	75	58	N/A	N/A	25	11	N/A
	R6	Class Room	W6	↙	36.6	25.1	11.5	0.69	99%	44%	34.97	0.44	75	58	N/A	N/A	25	11	N/A
Old Mill and Decker Mill																			
B01	R1	LKD	W1	↙	5.9	4.3	1.6	0.73											
		LKD	W2	↙	7.9	5.5	2.4	0.70	23%	7%	4.64	0.31	27	20	7	0.74	13	6	N/A
	R2	Bedroom	W3	↙	10.9	7.5	3.4	0.69											
		Bedroom	W4	↙	13.2	11.4	1.8	0.86											
		Bedroom	W5	↘	35.6	30.0	N/A	N/A	95%	89%	1.04	0.94	73	64	N/A	N/A	26	17	N/A
	R3	Bedroom	W6	↘	35.5	30.1	N/A	N/A											
		Bedroom	W7	↘	35.2	30.1	N/A	N/A	94%	94%	0.00	1.00	73	63	N/A	N/A	26	16	N/A
	R5	Bedroom	W10	↘	34.2	29.8	N/A	N/A	93%	93%	0.00	1.00	72	64	N/A	N/A	25	17	N/A
	R6	Bedroom	W11	↘	34.0	29.8	N/A	N/A											
		Bedroom	W12	↘	33.8	30.0	N/A	N/A	95%	95%	0.00	1.00	72	65	N/A	N/A	25	18	N/A
	R7	Bedroom	W13	↘	33.8	30.2	N/A	N/A	94%	94%	0.00	1.00	70	64	N/A	N/A	25	19	N/A
	R8	Bedroom	W14	↘	33.8	30.5	N/A	N/A											
		Bedroom	W15	↘	33.8	30.8	N/A	N/A	91%	91%	0.00	1.00	71	65	N/A	N/A	26	20	N/A
F00	R1	LKD	W1	↙	6.5	5.1	1.4	0.78											
		LKD	W2	↙	8.5	6.3	2.2	0.74	35%	21%	4.61	0.59	27	20	7	0.74	13	6	N/A
	R2	Bedroom	W3	↙	11.7	8.4	3.3	0.72											
		Bedroom	W4	↙	16.3	12.4	3.9	0.76											
		Bedroom	W5	↘	36.4	31.2	N/A	N/A	98%	96%	0.25	0.99	74	66	N/A	N/A	26	18	N/A
	R3	Bedroom	W6	↘	36.3	31.4	N/A	N/A											
		Bedroom	W7	↘	36.2	31.4	N/A	N/A	98%	98%	0.00	1.00	73	64	N/A	N/A	26	17	N/A
	R5	LD	W10	↘	35.6	31.5	N/A	N/A											
		LD	W11	↘	35.5	31.6	N/A	N/A											
		LD	W12	↘	35.4	31.8	N/A	N/A	98%	97%	0.30	0.99	72	65	N/A	N/A	25	18	N/A
	R6	LD	W13	↘	35.3	31.9	N/A	N/A											
		LD	W14	↘	35.3	32.1	N/A	N/A											
		LD	W15	↘	35.3	32.2	N/A	N/A	97%	97%	0.00	1.00	74	68	N/A	N/A	27	21	N/A
F01	R1	LKD	W1	↙	7.5	6.2	1.3	0.83											
		LKD	W2	↙	9.5	7.4	2.1	0.78	33%	21%	3.83	0.64	27	20	7	0.74	13	6	N/A
	R3	Bedroom	W4	↙	17.1	13.6	3.5	0.80											
		Bedroom	W5	↘	37.1	32.3	N/A	N/A	97%	97%	0.00	1.00	75	67	N/A	N/A	27	19	N/A
	R4	Bedroom	W6	↘	37.0	32.5	N/A	N/A											
		Bedroom	W7	↘	37.0	32.7	N/A	N/A	99%	99%	0.00	1.00	75	68	N/A	N/A	27	20	N/A
	R6	Bedroom	W10	↘	36.8	33.1	N/A	N/A	96%	96%	0.00	1.00	75	68	N/A	N/A	27	20	N/A
	R7	Bedroom	W11	↘	36.8	33.2	N/A	N/A											
		Bedroom	W12	↘	36.7	33.3	N/A	N/A	98%	98%	0.00	1.00	76	68	N/A	N/A	28	20	N/A
	R8	Bedroom	W13	↘	36.7	33.4	N/A	N/A											
		Bedroom	W14	↘	36.6	33.5	N/A	N/A	98%	98%	0.00	1.00	75	69	N/A	N/A	27	21	N/A
	R9	Bedroom	W15	↘	36.5	33.6	N/A	N/A	97%	97%	0.00	1.00	75	69	N/A	N/A	27	21	N/A
F02	R1	LKD	W1	↙	8.9	7.7	1.2	0.87											
		LKD	W2	↙	10.8	9.0	1.8	0.83	35%	23%	3.82	0.66	29	24	5	0.83	13	8	N/A
	R3	Bedroom	W4	↙	18.2	15.0	3.2	0.82											
		Bedroom	W5	↘	37.4	33.0	N/A	N/A	97%	97%	0.00	1.00	75	68	N/A	N/A	27	20	N/A
	R4	Bedroom	W6	↘	37.4	33.2	N/A	N/A											
		Bedroom	W7	↘	37.3	33.4	N/A	N/A	99%	99%	0.00	1.00	76	68	N/A	N/A	28	20	N/A

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Cum. (% VSC)	Loss (% VSC)	Pro/Cum ratio	Exis. (% rm)	Cum. (% rm)	Loss (m^2)	Pro/Cum ratio	Annual (%APSH) Exis.	Cum.	Loss	Pro/Cum	Winter (%APSH) Exis.	Cum.	Pro/Cum
	R6	Bedroom	W10	↘	37.2	33.8	N/A	N/A	96%	96%	0.00	1.00	76	69	N/A	N/A	28	21	N/A
	R7	Bedroom	W11	↘	37.2	34.0	N/A	N/A											
		Bedroom	W12	↘	37.1	34.1	N/A	N/A	98%	98%	0.00	1.00	76	70	N/A	N/A	28	22	N/A
	R8	Bedroom	W13	↘	37.1	34.2	N/A	N/A											
		Bedroom	W14	↘	37.0	34.2	N/A	N/A	98%	98%	0.00	1.00	75	71	N/A	N/A	27	23	N/A
	R9	Bedroom	W15	↘	37.0	34.3	N/A	N/A	96%	96%	0.00	1.00	75	70	N/A	N/A	27	22	N/A
F03	R1	LKD	W1	↙	10.9	9.9	1.0	0.91											
		LKD	W2	↙	12.7	11.0	1.7	0.87	38%	29%	2.78	0.77	31	25	N/A	N/A	14	8	N/A
	R3	Bedroom	W4	↙	19.7	16.8	2.9	0.85											
		Bedroom	W5	↘	37.7	33.7	N/A	N/A	97%	97%	0.00	1.00	77	72	N/A	N/A	27	22	N/A
	R4	Bedroom	W6	↘	37.7	33.9	N/A	N/A											
		Bedroom	W7	↘	37.6	34.1	N/A	N/A	99%	99%	0.00	1.00	78	71	N/A	N/A	28	21	N/A
	R6	Bedroom	W10	↘	37.5	34.5	N/A	N/A	96%	96%	0.00	1.00	77	71	N/A	N/A	28	22	N/A
	R7	Bedroom	W11	↘	37.5	34.6	N/A	N/A											
		Bedroom	W12	↘	37.5	34.7	N/A	N/A	98%	98%	0.00	1.00	77	72	N/A	N/A	28	23	N/A
	R8	Bedroom	W13	↘	37.4	34.8	N/A	N/A											
		Bedroom	W14	↘	37.4	34.9	N/A	N/A	98%	98%	0.00	1.00	75	72	N/A	N/A	27	24	N/A
	R9	Bedroom	W15	↘	37.3	34.9	N/A	N/A	96%	96%	0.00	1.00	75	72	N/A	N/A	27	24	N/A
F04	R1	LKD	W1	↙	14.1	13.1	1.0	0.93											
		LKD	W2	↙	15.6	14.1	1.5	0.90	41%	33%	2.53	0.81	37	33	N/A	N/A	14	10	N/A
	R3	Bedroom	W4	↙	21.9	19.3	2.6	0.88											
		Bedroom	W5	↘	38.0	34.4	N/A	N/A	97%	97%	0.00	1.00	79	74	N/A	N/A	28	23	N/A
	R4	Bedroom	W6	↘	37.9	34.6	N/A	N/A											
		Bedroom	W7	↘	37.9	34.7	N/A	N/A	99%	99%	0.00	1.00	78	72	N/A	N/A	28	22	N/A
	R6	Bedroom	W10	↘	37.8	35.1	N/A	N/A	97%	97%	0.00	1.00	77	72	N/A	N/A	28	23	N/A
	R7	Bedroom	W11	↘	37.8	35.2	N/A	N/A											
		Bedroom	W12	↘	37.8	35.3	N/A	N/A	99%	99%	0.00	1.00	77	73	N/A	N/A	28	24	N/A
	R8	Bedroom	W13	↘	37.8	35.4	N/A	N/A											
		Bedroom	W14	↘	37.7	35.5	N/A	N/A	98%	98%	0.00	1.00	76	73	N/A	N/A	27	24	N/A
	R9	Bedroom	W15	↘	37.7	35.5	N/A	N/A	97%	97%	0.00	1.00	76	73	N/A	N/A	27	24	N/A
F05	R1	LKD	W1	↙	18.7	17.8	0.9	0.95											
		LKD	W2	↙	19.8	18.5	1.3	0.93	55%	48%	1.89	0.88	44	40	N/A	N/A	15	11	N/A
	R3	Bedroom	W4	↙	25.1	22.7	2.4	0.90											
		Bedroom	W5	↘	38.2	35.1	N/A	N/A	97%	97%	0.00	1.00	82	78	N/A	N/A	28	24	N/A
	R4	Bedroom	W6	↘	38.2	35.2	N/A	N/A											
		Bedroom	W7	↘	38.1	35.3	N/A	N/A	99%	99%	0.00	1.00	78	73	N/A	N/A	28	23	N/A
	R6	Bedroom	W10	↘	38.1	35.7	N/A	N/A	96%	96%	0.00	1.00	77	74	N/A	N/A	28	25	N/A
	R7	Bedroom	W11	↘	38.1	35.8	N/A	N/A											
		Bedroom	W12	↘	38.1	35.9	N/A	N/A	99%	99%	0.00	1.00	77	74	N/A	N/A	28	25	N/A
	R8	Bedroom	W13	↘	38.0	35.9	N/A	N/A											
		Bedroom	W14	↘	38.0	36.0	N/A	N/A	98%	98%	0.00	1.00	76	75	N/A	N/A	27	26	N/A
	R9	Bedroom	W15	↘	38.0	36.1	N/A	N/A	97%	97%	0.00	1.00	77	75	N/A	N/A	28	26	N/A
Royal Mills and Sedgwick Mills																			
F02	R1	Bedroom	W1	↙	23.9	22.1	1.8	0.92	92%	92%	0.02	1.00	50	46	N/A	N/A	19	15	N/A
	R2	LKD	W2	↙	28.6	26.4	2.2	0.92											
		LKD	W3	↘	37.0	25.9	11.1	0.70											
		LKD	W4	↘	37.4	26.2	11.2	0.70	100%	87%	5.26	0.87	82	67	N/A	N/A	27	18	N/A
	R3	LKD	W5	↘	37.3	26.0	11.3	0.70											
		LKD	W6	↘	37.3	25.9	11.4	0.69	94%	58%	13.45	0.62	74	57	N/A	N/A	25	12	N/A
	R4	Bedroom	W7	↘	37.5	25.9	11.6	0.69	100%	79%	2.41	0.79	76	56	N/A	N/A	26	11	N/A
	R5	Bedroom	W8	↘	37.3	25.8	11.5	0.69	83%	32%	8.72	0.39	76	56	N/A	N/A	26	11	N/A
	R6	Bedroom	W9	↘	37.3	25.7	11.6	0.69	83%	28%	9.83	0.34	73	54	N/A	N/A	25	11	N/A
	R7	Bedroom	W10	↘	37.4	25.8	11.6	0.69	100%	59%	5.27	0.59	77	58	N/A	N/A	27	13	N/A
	R8	LKD	W11	↘	36.9	25.3	11.6	0.69											
		LKD	W12	↘	37.5	25.8	11.7	0.69											
		LKD	W13	↘	37.5	25.9	11.6	0.69	98%	46%	15.60	0.47	77	58	N/A	N/A	27	13	N/A
	R9	LKD	W14	↘	37.2	25.7	11.5	0.69											
		LKD	W15	↘	37.2	25.9	11.3	0.70	99%	55%	27.18	0.56	76	57	N/A	N/A	27	11	N/A
	R10	Bedroom	W16	↘	36.8	25.8	11.0	0.70	97%	64%	5.99	0.66	72	54	N/A	N/A	25	10	N/A
	R11	Bedroom	W17	↘	37.5	26.8	10.7	0.71	96%	42%	11.82	0.44	78	61	N/A	N/A	28	14	N/A

Ratio: N/A or ≥0.8 = inside BRE (N/A* satisfies 4% APSH criterion); N/R = not required

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Cum. (% VSC)	Loss (% VSC)	Pro/Cum ratio	Exis. (% rm)	Cum. (% rm)	Loss (m^2)	Pro/Cum ratio	Annual (%APSH) Exis.	Cum.	Loss	Pro/Cum	Winter (%APSH) Exis.	Cum.	Pro/Cum
	R12	Bedroom	W18	↘	37.4	27.2	N/A	N/A	96%	46%	6.25	0.49	78	62	N/A	N/A	28	14	N/A
	R13	LKD	W19	↘	37.4	27.6	N/A	N/A											
		LKD	W20	↘	37.4	28.0	N/A	N/A	98%	62%	12.88	0.63	78	65	N/A	N/A	28	16	N/A
	R14	LKD	W21	↘	37.4	28.2	N/A	N/A											
		LKD	W22	↘	37.5	28.5	N/A	N/A	99%	60%	15.35	0.60	78	65	N/A	N/A	28	16	N/A
	R15	LKD	W23	↘	37.4	28.8	N/A	N/A											
		LKD	W24	↘	37.4	29.1	N/A	N/A	98%	79%	7.92	0.80	78	65	N/A	N/A	28	15	N/A
	R16	LKD	W25	↘	37.4	29.4	N/A	N/A											
		LKD	W26	↘	37.4	29.6	N/A	N/A	99%	89%	2.83	0.90	78	65	N/A	N/A	28	15	N/A
	R17	Bedroom	W27	↘	37.4	29.9	N/A	N/A	96%	85%	1.52	0.88	78	66	N/A	N/A	28	16	N/A
	R18	Bedroom	W28	↘	37.4	30.2	N/A	N/A	76%	57%	2.87	0.75	78	66	N/A	N/A	28	16	N/A
	R19	Bedroom	W29	↘	37.3	30.4	N/A	N/A	92%	88%	0.53	0.95	75	63	N/A	N/A	26	14	N/A
	R20	LKD	W30	↘	37.3	30.7	N/A	N/A	96%	76%	6.29	0.79	77	65	N/A	N/A	27	15	N/A
	R21	Bedroom	W31	↘	37.3	30.9	N/A	N/A	98%	73%	4.59	0.74	77	67	N/A	N/A	27	17	N/A
	R22	LKD	W32	↘	37.3	31.2	N/A	N/A											
		LKD	W33	↘	37.3	31.5	N/A	N/A											
		LKD	W34	↗	20.1	20.1	0.0	1.00											
		LKD	W35	↗	17.6	17.6	0.0	1.00	99%	97%	0.74	0.98	77	68	N/A	N/A	27	18	N/A
F03	R1	Bedroom	W1	↙	29.0	27.3	N/A	N/A	92%	92%	0.01	1.00	63	59	N/A	N/A	19	15	N/A
	R2	LKD	W2	↙	32.1	30.1	N/A	N/A											
		LKD	W3	↘	37.3	27.3	N/A	N/A											
		LKD	W4	↘	37.7	27.6	N/A	N/A	100%	89%	4.22	0.89	91	79	N/A	N/A	27	18	N/A
	R3	LKD	W5	↘	37.6	27.4	N/A	N/A											
		LKD	W6	↘	37.6	27.3	N/A	N/A	94%	63%	11.55	0.67	75	61	N/A	N/A	26	14	N/A
	R4	Bedroom	W7	↘	37.7	27.3	N/A	N/A	100%	83%	1.88	0.83	77	62	N/A	N/A	27	14	N/A
	R5	Bedroom	W8	↘	37.6	27.2	N/A	N/A	83%	35%	8.31	0.42	77	61	N/A	N/A	27	14	N/A
	R6	Bedroom	W9	↘	37.6	27.1	N/A	N/A	83%	31%	9.26	0.38	73	58	N/A	N/A	25	12	N/A
	R7	Bedroom	W10	↘	37.7	27.2	N/A	N/A	100%	66%	4.39	0.66	77	62	N/A	N/A	27	14	N/A
	R8	LKD	W11	↘	37.2	26.7	10.5	0.72											
		LKD	W12	↘	37.8	27.2	N/A	N/A											
		LKD	W13	↘	37.8	27.2	N/A	N/A	98%	49%	14.68	0.50	77	62	N/A	N/A	27	14	N/A
	R9	LKD	W14	↘	37.5	27.1	N/A	N/A	98%	33%	25.12	0.34	73	58	N/A	N/A	25	11	N/A
	R10	Bedroom	W15	↘	37.5	27.2	N/A	N/A	97%	70%	3.84	0.72	75	59	N/A	N/A	27	13	N/A
	R11	Bedroom	W16	↘	37.1	27.1	N/A	N/A	99%	71%	3.27	0.72	72	55	N/A	N/A	25	10	N/A
	R12	LKD	W17	↘	37.7	27.9	N/A	N/A	97%	42%	14.16	0.43	78	63	N/A	N/A	28	14	N/A
	R13	Bedroom	W18	↘	37.7	28.3	N/A	N/A	96%	53%	5.69	0.55	78	65	N/A	N/A	28	15	N/A
	R14	LKD	W19	↘	37.7	28.7	N/A	N/A											
		LKD	W20	↘	37.7	29.0	N/A	N/A	99%	66%	11.82	0.67	78	66	N/A	N/A	28	17	N/A
	R15	LKD	W21	↘	37.6	29.2	N/A	N/A											
		LKD	W22	↘	37.7	29.5	N/A	N/A	99%	62%	14.56	0.63	78	65	N/A	N/A	28	16	N/A
	R16	LKD	W23	↘	37.7	29.8	N/A	N/A											
		LKD	W24	↘	37.7	30.1	N/A	N/A	98%	81%	7.25	0.82	78	66	N/A	N/A	28	16	N/A
	R17	LKD	W25	↘	37.7	30.3	N/A	N/A											
		LKD	W26	↘	37.7	30.6	N/A	N/A	99%	91%	2.42	0.92	78	65	N/A	N/A	28	15	N/A
	R18	Bedroom	W27	↘	37.7	30.8	N/A	N/A	97%	88%	1.29	0.91	78	66	N/A	N/A	28	16	N/A
	R19	Bedroom	W28	↘	37.7	31.1	N/A	N/A	77%	59%	2.73	0.77	78	66	N/A	N/A	28	16	N/A
	R20	Bedroom	W29	↘	37.6	31.3	N/A	N/A	95%	92%	0.37	0.97	75	65	N/A	N/A	26	16	N/A
	R21	LKD	W30	↘	37.6	31.6	N/A	N/A	98%	80%	5.75	0.82	77	67	N/A	N/A	27	17	N/A
	R22	Bedroom	W31	↘	37.6	31.8	N/A	N/A	98%	77%	3.96	0.78	77	68	N/A	N/A	27	18	N/A
	R23	LKD	W32	↘	37.6	32.1	N/A	N/A											
		LKD	W33	↘	37.6	32.3	N/A	N/A											
		LKD	W34	↗	22.7	22.7	0.0	1.00											
		LKD	W35	↗	20.6	20.6	0.0	1.00	99%	97%	0.90	0.98	77	69	N/A	N/A	27	19	N/A
F04	R1	Bedroom	W1	↙	33.7	32.2	N/A	N/A	93%	93%	0.01	1.00	69	65	N/A	N/A	21	17	N/A
	R2	LKD	W2	↙	34.8	33.0	N/A	N/A											
		LKD	W3	↘	37.6	28.6	N/A	N/A											
		LKD	W4	↘	38.0	29.0	N/A	N/A	100%	91%	3.54	0.91	96	85	N/A	N/A	27	19	N/A
	R3	LKD	W5	↘	37.9	28.8	N/A	N/A											
		LKD	W6	↘	37.9	28.7	N/A	N/A	94%	68%	9.79	0.72	76	64	N/A	N/A	26	16	N/A
	R4	Bedroom	W7	↘	38.0	28.8	N/A	N/A	100%	88%	1.40	0.88	77	63	N/A	N/A	27	15	N/A
	R5	Bedroom	W8	↘	37.9	28.6	N/A	N/A	83%	37%	7.89	0.45	77	64	N/A	N/A	27	16	N/A

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Cum. (% VSC)	Loss (% VSC)	Pro/Cum ratio	Exis. (% rm)	Cum. (% rm)	Loss (m^2)	Pro/Cum ratio	Annual (%APSH) Exis.	Cum.	Loss	Pro/Cum	Winter (%APSH) Exis.	Cum.	Pro/Cum
	R6	Bedroom	W9	↘	37.9	28.5	N/A	N/A	83%	35%	8.61	0.42	73	60	N/A	N/A	25	14	N/A
	R7	Bedroom	W10	↘	38.0	28.6	N/A	N/A	100%	73%	3.48	0.73	77	63	N/A	N/A	27	15	N/A
	R8	LKD	W11	↘	37.5	28.1	N/A	N/A											
		LKD	W12	↘	38.1	28.7	N/A	N/A											
		LKD	W13	↘	38.1	28.7	N/A	N/A	97%	51%	13.81	0.53	77	63	N/A	N/A	27	15	N/A
	R9	LKD	W14	↘	37.7	28.5	N/A	N/A	98%	36%	23.96	0.37	73	59	N/A	N/A	25	12	N/A
	R10	Bedroom	W15	↘	37.8	28.6	N/A	N/A	97%	75%	3.05	0.77	75	62	N/A	N/A	27	15	N/A
	R11	Bedroom	W16	↘	37.3	28.4	N/A	N/A	99%	72%	3.51	0.72	72	59	N/A	N/A	25	13	N/A
	R12	Bedroom	W17	↘	38.0	29.1	N/A	N/A	96%	53%	9.19	0.55	78	65	N/A	N/A	28	16	N/A
	R13	Bedroom	W18	↘	38.0	29.4	N/A	N/A	96%	59%	4.99	0.61	78	66	N/A	N/A	28	16	N/A
	R14	LKD	W19	↘	38.0	29.7	N/A	N/A											
		LKD	W20	↘	37.9	30.1	N/A	N/A	99%	68%	10.94	0.69	78	68	N/A	N/A	28	18	N/A
	R15	LKD	W21	↘	37.9	30.2	N/A	N/A											
		LKD	W22	↘	38.0	30.5	N/A	N/A	99%	64%	14.00	0.64	78	67	N/A	N/A	28	17	N/A
	R16	LKD	W23	↘	38.0	30.8	N/A	N/A											
		LKD	W24	↘	38.0	31.0	N/A	N/A	98%	82%	6.68	0.84	78	68	N/A	N/A	28	18	N/A
	R17	LKD	W25	↘	37.9	31.3	N/A	N/A											
		LKD	W26	↘	37.9	31.5	N/A	N/A	99%	91%	2.17	0.92	78	68	N/A	N/A	28	18	N/A
	R18	Bedroom	W27	↘	37.9	31.8	N/A	N/A	97%	90%	1.04	0.92	78	68	N/A	N/A	28	18	N/A
	R19	Bedroom	W28	↘	37.9	32.0	N/A	N/A	77%	61%	2.49	0.79	78	68	N/A	N/A	28	18	N/A
	R20	Bedroom	W29	↘	37.8	32.2	N/A	N/A	95%	93%	0.24	0.98	75	67	N/A	N/A	26	18	N/A
	R21	LKD	W30	↘	37.9	32.4	N/A	N/A	98%	82%	5.12	0.84	77	69	N/A	N/A	27	19	N/A
	R22	Bedroom	W31	↘	37.9	32.7	N/A	N/A	98%	81%	3.26	0.82	77	70	N/A	N/A	27	20	N/A
	R23	LKD	W32	↘	37.9	32.9	N/A	N/A											
		LKD	W33	↘	37.9	33.1	N/A	N/A											
		LKD	W34	↗	26.3	26.3	0.0	1.00											
		LKD	W35	↗	24.7	24.7	0.0	1.00	99%	98%	0.73	0.98	77	71	N/A	N/A	27	21	N/A
F05	R1	Bedroom	W1	↙	35.5	34.2	N/A	N/A	93%	93%	0.00	1.00	73	70	N/A	N/A	24	21	N/A
	R2	LKD	W2	↙	35.7	34.2	N/A	N/A											
		LKD	W3	↘	37.8	30.0	N/A	N/A											
		LKD	W4	↘	38.3	30.4	N/A	N/A	98%	86%	4.99	0.87	97	89	N/A	N/A	28	21	N/A
	R3	LKD	W5	↘	38.2	30.2	N/A	N/A											
		LKD	W6	↘	38.1	30.1	N/A	N/A	96%	68%	10.27	0.71	76	68	N/A	N/A	26	18	N/A
	R4	Bedroom	W7	↘	38.2	30.2	N/A	N/A	70%	30%	4.95	0.43	75	65	N/A	N/A	26	17	N/A
	R5	Bedroom	W8	↘	38.3	30.2	N/A	N/A											
		Bedroom	W9	↘	38.2	30.0	N/A	N/A	100%	99%	0.09	0.99	77	66	N/A	N/A	27	17	N/A
	R6	Bedroom	W10	↘	38.1	29.9	N/A	N/A	85%	38%	9.70	0.44	73	62	N/A	N/A	25	15	N/A
	R7	Bedroom	W11	↘	38.3	30.1	N/A	N/A	100%	74%	3.75	0.74	77	65	N/A	N/A	27	16	N/A
	R8	LKD	W12	↘	37.7	29.5	N/A	N/A											
		LKD	W13	↘	38.3	30.0	N/A	N/A											
		LKD	W14	↘	38.3	30.1	N/A	N/A	97%	53%	13.20	0.55	77	66	N/A	N/A	27	16	N/A
	R9	LKD	W15	↘	38.0	29.9	N/A	N/A	98%	38%	23.22	0.39	73	61	N/A	N/A	25	14	N/A
	R10	Bedroom	W16	↘	38.0	30.0	N/A	N/A	97%	79%	2.49	0.82	75	63	N/A	N/A	27	15	N/A
	R11	Bedroom	W17	↘	37.6	29.7	N/A	N/A	99%	76%	2.99	0.76	72	59	N/A	N/A	25	13	N/A
	R12	LKD	W18	↘	38.2	30.3	N/A	N/A	97%	48%	12.40	0.49	78	67	N/A	N/A	28	18	N/A
	R13	Bedroom	W19	↘	38.2	30.6	N/A	N/A	96%	66%	3.99	0.69	78	68	N/A	N/A	28	18	N/A
	R14	LKD	W20	↘	38.2	30.9	N/A	N/A											
		LKD	W21	↘	38.2	31.2	N/A	N/A	99%	71%	9.91	0.72	78	69	N/A	N/A	28	19	N/A
	R15	LKD	W22	↘	38.1	31.3	N/A	N/A											
		LKD	W23	↘	38.2	31.6	N/A	N/A	99%	65%	13.76	0.65	78	69	N/A	N/A	28	19	N/A
	R16	LKD	W24	↘	38.2	31.8	N/A	N/A											
		LKD	W25	↘	38.2	32.1	N/A	N/A	98%	84%	6.06	0.85	78	70	N/A	N/A	28	20	N/A
	R17	LKD	W26	↘	38.2	32.3	N/A	N/A											
		LKD	W27	↘	38.2	32.5	N/A	N/A	99%	92%	1.86	0.94	78	69	N/A	N/A	28	19	N/A
	R18	Bedroom	W28	↘	38.2	32.7	N/A	N/A	97%	92%	0.73	0.95	78	69	N/A	N/A	28	19	N/A
	R19	Bedroom	W29	↘	38.2	32.9	N/A	N/A	77%	62%	2.27	0.81	78	70	N/A	N/A	28	20	N/A
	R20	Bedroom	W30	↘	38.1	33.1	N/A	N/A	95%	94%	0.15	0.99	75	68	N/A	N/A	26	19	N/A
	R21	LKD	W31	↘	38.1	33.3	N/A	N/A	98%	84%	4.32	0.86	77	71	N/A	N/A	27	21	N/A
	R22	Bedroom	W32	↘	38.1	33.6	N/A	N/A	98%	85%	2.48	0.86	78	71	N/A	N/A	28	21	N/A
	R23	LKD	W33	↘	38.1	33.8	N/A	N/A											
		LKD	W34	↘	38.1	34.0	N/A	N/A											

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Cum. (% VSC)	Loss (% VSC)	Pro/Cum ratio	Exis. (% rm)	Cum. (% rm)	Loss (m^2)	Pro/Cum ratio	Annual (%APSH) Exis.	Cum.	Loss	Pro/Cum	Winter (%APSH) Exis.	Cum.	Pro/Cum
		LKD	W35	↗	31.6	31.6	N/A	N/A											
		LKD	W36	↗	30.7	30.7	N/A	N/A	100%	98%	0.52	0.99	78	71	N/A	N/A	28	21	N/A
F06	R1	Unknown-Re	W1	↘	32.8	28.6	N/A	N/A	98%	98%	0.00	1.00	65	60	N/A	N/A	26	21	N/A
	R2	Unknown-Re	W2	↘	34.7	30.1	N/A	N/A	100%	93%	1.01	0.93	66	59	N/A	N/A	20	13	N/A
	R3	Unknown-Re	W3	↘	31.2	29.1	N/A	N/A	100%	92%	1.13	0.92	61	57	N/A	N/A	21	17	N/A
	R4	Unknown-Re	W4	↘	27.5	23.9	3.6	0.87	100%	89%	1.36	0.89	49	44	N/A	N/A	13	8	N/A
	R6	LKD	W7	↘	38.3	31.5	N/A	N/A											
		LKD	W8	↘	38.3	31.7	N/A	N/A	99%	92%	3.05	0.93	77	68	N/A	N/A	27	18	N/A
	R7	Bedroom	W9	↘	37.9	31.4	N/A	N/A	99%	99%	0.00	1.00	72	63	N/A	N/A	25	16	N/A
	R8	Bedroom	W10	↘	38.5	31.6	N/A	N/A	96%	63%	7.07	0.65	78	69	N/A	N/A	28	19	N/A
	R9	Bedroom	W11	↘	38.4	31.8	N/A	N/A	96%	76%	2.63	0.79	78	70	N/A	N/A	28	20	N/A
	R10	LKD	W12	↘	38.4	32.1	N/A	N/A											
		LKD	W13	↘	38.4	32.3	N/A	N/A	99%	74%	8.86	0.75	78	72	N/A	N/A	28	22	N/A
	R11	LKD	W14	↘	38.4	32.4	N/A	N/A											
		LKD	W15	↘	38.5	32.7	N/A	N/A	99%	66%	13.34	0.66	78	73	N/A	N/A	28	23	N/A
	R12	LKD	W16	↘	38.4	32.9	N/A	N/A											
		LKD	W17	↘	38.4	33.1	N/A	N/A	98%	85%	5.50	0.86	78	71	N/A	N/A	28	21	N/A
	R13	LKD	W18	↘	38.4	33.3	N/A	N/A											
		LKD	W19	↘	38.4	33.5	N/A	N/A	99%	94%	1.40	0.95	78	72	N/A	N/A	28	22	N/A
	R14	Bedroom	W20	↘	38.4	33.7	N/A	N/A	97%	94%	0.38	0.97	78	72	N/A	N/A	28	22	N/A
	R15	Bedroom	W21	↘	38.4	33.9	N/A	N/A	77%	64%	1.98	0.84	78	72	N/A	N/A	28	22	N/A
	R16	Bedroom	W22	↘	38.3	34.0	N/A	N/A	95%	95%	0.04	1.00	76	70	N/A	N/A	27	21	N/A
	R17	LKD	W23	↘	38.4	34.3	N/A	N/A	98%	87%	3.40	0.89	78	73	N/A	N/A	28	23	N/A
	R18	Bedroom	W24	↘	38.4	34.5	N/A	N/A	98%	90%	1.58	0.91	78	72	N/A	N/A	28	22	N/A
	R19	LKD	W25	↘	38.4	34.6	N/A	N/A											
		LKD	W26	↘	38.4	34.8	N/A	N/A											
		LKD	W27	↗	36.4	36.4	N/A	N/A											
		LKD	W28	↗	36.1	36.1	N/A	N/A	100%	99%	0.16	1.00	78	73	N/A	N/A	28	23	N/A
F07	R1	LKD	W1	↙	28.9	28.8	N/A	N/A											
		LKD	W2	↗	19.5	19.5	0.0	1.00	73%	68%	1.24	0.92	44	44	N/A	N/A	10	10	N/A
	R3	Bedroom	W4	↙	24.7	24.7	0.0	1.00	86%	85%	0.08	0.99	56	55	N/A	N/A	17	16	N/A
	R4	LKD	W5	↘	38.7	32.9	N/A	N/A	97%	56%	11.71	0.57	78	71	N/A	N/A	28	21	N/A
	R5	Bedroom	W6	↘	38.6	33.1	N/A	N/A	98%	83%	1.92	0.84	78	71	N/A	N/A	28	21	N/A
	R6	LKD	W7	↘	38.6	33.3	N/A	N/A											
		LKD	W8	↘	38.6	33.5	N/A	N/A	99%	76%	8.77	0.77	78	72	N/A	N/A	28	22	N/A
	R7	LKD	W9	↘	38.6	33.6	N/A	N/A											
		LKD	W10	↘	38.6	33.8	N/A	N/A	99%	63%	16.62	0.64	78	74	N/A	N/A	28	24	N/A
	R8	LKD	W11	↘	38.6	34.0	N/A	N/A											
		LKD	W12	↘	38.6	34.2	N/A	N/A	99%	86%	4.54	0.87	78	74	N/A	N/A	28	24	N/A
	R9	LKD	W13	↘	38.6	34.3	N/A	N/A											
		LKD	W14	↘	38.6	34.5	N/A	N/A	99%	91%	2.74	0.92	78	74	N/A	N/A	28	24	N/A
	R10	Bedroom	W15	↘	38.6	34.7	N/A	N/A	98%	93%	0.67	0.95	78	73	N/A	N/A	28	23	N/A
	R11	LKD	W16	↘	38.6	34.8	N/A	N/A											
		LKD	W17	↘	38.5	34.9	N/A	N/A	99%	91%	3.24	0.92	78	74	N/A	N/A	28	24	N/A
	R12	LKD	W18	↘	38.6	35.2	N/A	N/A	99%	77%	5.36	0.78	78	73	N/A	N/A	28	23	N/A
	R13	Bedroom	W19	↘	38.6	35.3	N/A	N/A	99%	90%	1.26	0.91	78	73	N/A	N/A	28	23	N/A
	R14	LKD	W20	↘	38.6	35.5	N/A	N/A											
		LKD	W21	↘	38.6	35.7	N/A	N/A											
		LKD	W22	↗	38.1	38.1	N/A	N/A											
		LKD	W23	↗	38.0	38.0	N/A	N/A	100%	93%	3.16	0.94	78	74	N/A	N/A	28	24	N/A
F07M	R1	Living Room	W1	Inc	87.8	85.1	N/A	N/A	100%	93%	1.24	0.93	91	88	N/A	N/A	28	25	N/A
	R2	Living Room	W2	Inc	87.7	85.2	N/A	N/A	100%	90%	2.59	0.90	90	87	N/A	N/A	28	25	N/A
	R3	Living Room	W3	Inc	87.5	85.4	N/A	N/A	100%	94%	1.37	0.94	91	89	N/A	N/A	28	26	N/A
	R4	Living Room	W4	Inc	87.5	85.6	N/A	N/A	100%	100%	0.03	1.00	92	90	N/A	N/A	28	26	N/A
	R5	Living Room	W5	Inc	87.6	85.8	N/A	N/A											
		Living Room	W7	↖	25.0	25.0	0.0	1.00											
		Living Room	W8	↖	19.5	19.5	0.0	1.00	98%	96%	0.30	0.99	92	90	N/A	N/A	28	26	N/A
	R6	Bedroom	W6	Inc	87.0	85.2	N/A	N/A	96%	96%	0.03	1.00	91	89	N/A	N/A	28	26	N/A

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Cum. (% VSC)	Loss (% VSC)	Pro/Cum ratio	Exis. (% rm)	Cum. (% rm)	Loss (m^2)	Pro/Cum ratio	Annual (%APSH) Exis.	Cum.	Loss	Pro/Cum	Winter (%APSH) Exis.	Cum.	Pro/Cum
MM2 Building Flats 1-65																			
F01	R1	Unknown-Re	W1	↙	21.5	21.0	0.5	0.98											
		Unknown-Re	W2	↙	25.4	24.8	0.6	0.98											
		Unknown-Re	W3	↘	36.8	29.4	N/A	N/A											
		Unknown-Re	W4	↘	37.0	29.3	N/A	N/A	100%	100%	0.00	1.00	81	70	N/A	N/A	27	22	N/A
	R2	Unknown-Re	W5	↘	37.0	28.8	N/A	N/A	100%	100%	0.00	1.00	74	61	N/A	N/A	25	18	N/A
	R3	Unknown-Re	W6	↘	37.0	28.3	N/A	N/A	100%	100%	0.00	1.00	73	58	N/A	N/A	25	16	N/A
	R4	Unknown-Re	W7	↘	36.8	27.7	N/A	N/A											
		Unknown-Re	W8	↘	36.3	26.7	9.6	0.74											
		Unknown-Re	W9	↗	15.8	13.5	2.3	0.85											
		Unknown-Re	W10	↗	13.1	10.9	2.2	0.83	100%	100%	0.00	1.00	73	60	N/A	N/A	25	15	N/A
F02	R1	Unknown-Re	W1	↙	24.6	24.2	0.4	0.98											
		Unknown-Re	W2	↙	28.0	27.5	N/A	N/A											
		Unknown-Re	W3	↘	37.0	30.2	N/A	N/A											
		Unknown-Re	W4	↘	37.1	30.0	N/A	N/A	100%	100%	0.00	1.00	87	79	N/A	N/A	28	24	N/A
	R2	Unknown-Re	W5	↘	37.1	29.5	N/A	N/A	100%	100%	0.00	1.00	73	61	N/A	N/A	25	18	N/A
	R3	Unknown-Re	W6	↘	37.0	29.1	N/A	N/A	100%	100%	0.00	1.00	73	60	N/A	N/A	26	18	N/A
	R4	Unknown-Re	W7	↘	36.9	28.5	N/A	N/A											
		Unknown-Re	W8	↘	36.5	27.7	N/A	N/A											
		Unknown-Re	W9	↗	18.1	15.9	2.2	0.88											
		Unknown-Re	W10	↗	15.5	13.5	2.0	0.87	100%	100%	0.00	1.00	73	62	N/A	N/A	26	18	N/A
F03	R1	Unknown-Re	W1	↙	23.9	23.5	0.4	0.98											
		Unknown-Re	W2	↙	26.5	26.0	0.5	0.98											
		Unknown-Re	W3	↘	33.0	26.9	6.1	0.82											
		Unknown-Re	W4	↘	32.5	26.1	6.4	0.80	100%	100%	0.00	1.00	93	86	N/A	N/A	28	25	N/A
	R2	Unknown-Re	W5	↘	32.5	25.7	6.8	0.79	100%	100%	0.00	1.00	62	51	N/A	N/A	23	17	N/A
	R3	Unknown-Re	W6	↘	32.5	25.3	7.2	0.78	100%	100%	0.00	1.00	62	49	N/A	N/A	24	16	N/A
	R4	Unknown-Re	W7	↘	32.4	24.8	7.6	0.77											
		Unknown-Re	W8	↘	32.4	24.4	8.0	0.75											
		Unknown-Re	W9	↗	17.1	15.2	1.9	0.89											
		Unknown-Re	W10	↗	14.6	12.9	1.7	0.88	100%	100%	0.00	1.00	62	51	N/A	N/A	24	16	N/A
F04	R1	Unknown-Re	W1	↙	27.3	27.0	N/A	N/A											
		Unknown-Re	W2	↙	28.6	28.1	N/A	N/A											
		Unknown-Re	W3	↘	33.1	27.7	N/A	N/A											
		Unknown-Re	W4	↘	32.4	26.7	5.7	0.82	100%	100%	0.00	1.00	96	91	N/A	N/A	28	26	N/A
	R2	Unknown-Re	W5	↘	32.4	26.3	6.1	0.81	100%	100%	0.00	1.00	64	57	N/A	N/A	25	20	N/A
	R3	Unknown-Re	W6	↘	32.3	25.9	6.4	0.80	100%	100%	0.00	1.00	62	52	N/A	N/A	24	17	N/A
	R4	Unknown-Re	W7	↘	32.3	25.4	6.9	0.79											
		Unknown-Re	W8	↘	32.6	25.4	7.2	0.78											
		Unknown-Re	W9	↗	22.0	20.2	1.8	0.92											
		Unknown-Re	W10	↗	19.9	18.3	1.6	0.92	100%	100%	0.00	1.00	62	53	N/A	N/A	24	16	N/A
MM2 Building Flats 66-93																			
F02	R1	Unknown-Re	W1	↙	22.7	22.7	0.0	1.00											
		Unknown-Re	W2	↘	33.1	28.0	N/A	N/A	100%	100%	0.00	1.00	79	71	N/A	N/A	26	23	N/A
	R2	Unknown-Re	W3	↘	36.9	31.3	N/A	N/A	99%	98%	0.32	0.99	72	65	N/A	N/A	24	21	N/A
	R3	Unknown-Re	W4	↘	36.9	31.0	N/A	N/A	100%	100%	0.00	1.00	72	65	N/A	N/A	24	21	N/A
	R4	Unknown-Re	W5	↘	37.0	30.7	N/A	N/A											
		Unknown-Re	W6	↘	36.9	30.5	N/A	N/A											
		Unknown-Re	W7	↗	24.6	22.2	2.4	0.90											
		Unknown-Re	W8	↗	22.0	19.9	2.1	0.90	100%	100%	0.00	1.00	72	65	N/A	N/A	24	20	N/A
F03	R1	Unknown-Re	W1	↙	24.0	23.9	0.1	1.00											
		Unknown-Re	W2	↘	33.5	28.9	N/A	N/A	100%	100%	0.00	1.00	82	73	N/A	N/A	27	23	N/A
	R2	Unknown-Re	W3	↘	33.0	28.0	N/A	N/A	99%	99%	0.00	1.00	65	57	N/A	N/A	25	21	N/A
	R3	Unknown-Re	W4	↘	33.0	27.6	N/A	N/A	100%	100%	0.00	1.00	64	57	N/A	N/A	24	21	N/A
	R4	Unknown-Re	W5	↘	33.0	27.3	N/A	N/A											
		Unknown-Re	W6	↘	33.4	27.5	N/A	N/A											
		Unknown-Re	W7	↗	25.4	23.2	2.2	0.91											
		Unknown-Re	W8	↗	23.2	21.3	1.9	0.92	100%	100%	0.00	1.00	65	57	N/A	N/A	25	20	N/A
F04	R1	Unknown-Re	W1	↙	28.4	28.4	N/A	N/A											

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Cum. (% VSC)	Loss (% VSC)	Pro/Cum ratio	Exis. (% rm)	Cum. (% rm)	Loss (m^2)	Pro/Cum ratio	Annual (%APSH) Exis.	Cum.	Loss	Pro/Cum	Winter (%APSH) Exis.	Cum.	Pro/Cum
		Unknown-Re	W2	↘	36.2	32.2	N/A	N/A	100%	100%	0.00	1.00	85	79	N/A	N/A	28	24	N/A
	R2	Unknown-Re	W3	↘	32.3	27.8	N/A	N/A	100%	100%	0.00	1.00	63	57	N/A	N/A	24	20	N/A
	R3	Unknown-Re	W4	↘	32.4	27.5	N/A	N/A	100%	100%	0.00	1.00	63	56	N/A	N/A	24	20	N/A
	R4	Unknown-Re	W5	↘	32.4	27.2	N/A	N/A											
		Unknown-Re	W6	↘	32.9	27.7	N/A	N/A											
		Unknown-Re	W7	↗	30.4	28.4	N/A	N/A											
		Unknown-Re	W8	↗	29.2	27.5	N/A	N/A	100%	100%	0.00	1.00	63	56	N/A	N/A	24	19	N/A
Brownsfield Mill																			
B01	R1	LKD	W1	↘	35.0	30.6	N/A	N/A											
		LKD	W2	↘	35.0	30.7	N/A	N/A											
		LKD	W3	↘	34.9	30.9	N/A	N/A											
		LKD	W4	↘	34.9	31.0	N/A	N/A	98%	98%	0.02	1.00	70	63	N/A	N/A	22	22	N/A
	R2	Bedroom	W5	↘	34.8	31.2	N/A	N/A	96%	96%	0.00	1.00	69	61	N/A	N/A	21	20	N/A
	R3	LKD	W6	↘	34.8	31.3	N/A	N/A											
		LKD	W7	↘	34.6	31.4	N/A	N/A	98%	96%	0.68	0.98	70	63	N/A	N/A	22	21	N/A
	R4	Bedroom	W8	↘	34.6	31.5	N/A	N/A	94%	94%	0.01	1.00	70	63	N/A	N/A	22	21	N/A
	R5	LKD	W9	↘	34.5	31.6	N/A	N/A											
		LKD	W10	↘	34.5	31.7	N/A	N/A	79%	78%	0.66	0.99	70	63	N/A	N/A	22	21	N/A
	R6	LKD	W11	↘	34.5	31.9	N/A	N/A											
		LKD	W12	↙	30.5	30.5	N/A	N/A											
		LKD	W13	↙	32.0	32.0	N/A	N/A	95%	94%	0.23	0.99	92	86	N/A	N/A	25	24	N/A
F00	R1	LKD	W1	↘	36.1	31.8	N/A	N/A											
		LKD	W2	↘	36.1	32.0	N/A	N/A											
		LKD	W3	↘	36.0	32.1	N/A	N/A											
		LKD	W4	↘	36.0	32.3	N/A	N/A											
		LKD	W17	↗	3.8	3.7	0.1	0.97	99%	99%	0.28	1.00	70	64	N/A	N/A	22	22	N/A
	R2	Bedroom	W5	↘	35.9	32.4	N/A	N/A	97%	97%	0.00	1.00	69	62	N/A	N/A	21	20	N/A
	R3	LKD	W6	↘	35.9	32.5	N/A	N/A											
		LKD	W7	↘	35.9	32.7	N/A	N/A	98%	95%	1.45	0.97	70	63	N/A	N/A	22	21	N/A
	R4	Bedroom	W8	↘	35.8	32.8	N/A	N/A	96%	96%	0.04	1.00	70	63	N/A	N/A	22	21	N/A
	R5	LKD	W9	↘	35.8	32.9	N/A	N/A											
		LKD	W10	↘	35.8	33.0	N/A	N/A	78%	77%	1.23	0.98	70	63	N/A	N/A	22	21	N/A
	R6	Bedroom	W11	↘	35.5	33.0	N/A	N/A											
		Bedroom	W12	↙	33.0	33.0	N/A	N/A	99%	99%	0.00	1.00	93	86	N/A	N/A	25	24	N/A
	R7	KD	W13	↗	13.4	13.4	0.0	1.00											
		KD	W14	↗	14.7	14.7	0.0	1.00											
		KD	W15	↗	15.4	15.3	0.1	0.99	90%	90%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R8	Bedroom	W16	↗	15.3	14.9	0.4	0.97	54%	54%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
F01	R1	LKD	W1	↘	36.9	32.8	N/A	N/A											
		LKD	W2	↘	36.9	33.0	N/A	N/A	98%	98%	0.02	1.00	70	64	N/A	N/A	22	22	N/A
	R2	Bedroom	W3	↘	36.8	33.2	N/A	N/A	96%	96%	0.05	1.00	70	64	N/A	N/A	22	22	N/A
	R3	Bedroom	W4	↘	36.8	33.3	N/A	N/A	96%	94%	0.23	0.98	70	64	N/A	N/A	22	22	N/A
	R4	LKD	W5	↘	36.8	33.5	N/A	N/A											
		LKD	W6	↘	36.8	33.6	N/A	N/A											
		LKD	W7	↘	36.8	33.7	N/A	N/A	99%	99%	0.01	1.00	71	64	N/A	N/A	23	22	N/A
	R5	Bedroom	W8	↘	36.8	33.8	N/A	N/A	96%	96%	0.01	1.00	70	63	N/A	N/A	22	21	N/A
	R6	LKD	W9	↘	36.8	34.0	N/A	N/A											
		LKD	W10	↘	36.8	34.1	N/A	N/A	85%	82%	1.83	0.96	70	63	N/A	N/A	22	21	N/A
	R7	Bedroom	W11	↘	36.5	34.0	N/A	N/A											
		Bedroom	W12	↙	33.9	33.9	N/A	N/A	99%	99%	0.12	0.99	94	87	N/A	N/A	26	25	N/A
	R8	KD	W13	↗	14.9	14.9	0.0	1.00											
		KD	W14	↗	16.6	16.6	0.0	1.00											
		KD	W15	↗	17.2	17.1	0.1	0.99	90%	90%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R9	Bedroom	W16	↗	16.8	16.5	0.3	0.98	53%	53%	0.01	1.00	North	North	N/A	N/A	North	North	N/A
F02	R1	Bedroom	W1	↘	37.4	33.7	N/A	N/A	94%	94%	0.14	0.99	71	64	N/A	N/A	23	22	N/A
	R2	Bedroom	W2	↘	37.4	33.8	N/A	N/A	95%	94%	0.02	1.00	71	64	N/A	N/A	23	22	N/A
	R3	LKD	W3	↘	37.4	34.0	N/A	N/A											
		LKD	W4	↘	37.4	34.1	N/A	N/A											
		LKD	W5	↘	37.4	34.3	N/A	N/A	98%	96%	1.16	0.98	71	65	N/A	N/A	23	23	N/A
	R4	Bedroom	W6	↘	37.4	34.4	N/A	N/A	97%	97%	0.01	1.00	71	64	N/A	N/A	23	22	N/A

Ratio: N/A or ≥0.8 = inside BRE (N/A* satisfies 4% APSH criterion); N/R = not required

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Cum. (% VSC)	Loss (% VSC)	Pro/Cum ratio	Exis. (% rm)	Cum. (% rm)	Loss (m^2)	Pro/Cum ratio	Annual (%APSH) Exis.	Cum.	Loss	Pro/Cum	Winter (%APSH) Exis.	Cum.	Pro/Cum
	R5	Bedroom	W7	↘	37.4	34.5	N/A	N/A	95%	95%	0.01	1.00	70	63	N/A	N/A	22	21	N/A
	R6	LKD	W8	↘	37.4	34.7	N/A	N/A											
		LKD	W9	↘	37.5	34.8	N/A	N/A	83%	82%	0.42	0.99	70	63	N/A	N/A	22	21	N/A
	R7	Bedroom	W10	↘	37.5	34.9	N/A	N/A											
		Bedroom	W11	↘	37.5	35.0	N/A	N/A	98%	98%	0.00	1.00	70	64	N/A	N/A	22	21	N/A
	R8	Bedroom	W12	↘	37.5	35.1	N/A	N/A											
		Bedroom	W13	↙	34.9	34.9	N/A	N/A											
		Bedroom	W14	↙	34.7	34.7	N/A	N/A	100%	100%	0.00	1.00	94	89	N/A	N/A	26	25	N/A
F03	R1	Bedroom	W1	↘	37.8	34.3	N/A	N/A	94%	94%	0.12	0.99	71	64	N/A	N/A	23	22	N/A
	R2	Bedroom	W2	↘	37.8	34.5	N/A	N/A	95%	94%	0.02	1.00	71	64	N/A	N/A	23	22	N/A
	R3	LKD	W3	↘	37.8	34.7	N/A	N/A											
		LKD	W4	↘	37.8	34.8	N/A	N/A											
		LKD	W5	↘	37.8	34.9	N/A	N/A	98%	96%	1.22	0.98	71	65	N/A	N/A	23	23	N/A
	R4	Bedroom	W6	↘	37.8	35.0	N/A	N/A	97%	97%	0.01	1.00	71	64	N/A	N/A	23	22	N/A
	R5	Bedroom	W7	↘	37.8	35.1	N/A	N/A	95%	95%	0.01	1.00	70	63	N/A	N/A	22	21	N/A
	R6	LKD	W8	↘	37.8	35.2	N/A	N/A											
		LKD	W9	↘	37.8	35.3	N/A	N/A	83%	83%	0.34	0.99	70	64	N/A	N/A	22	21	N/A
	R7	Bedroom	W10	↘	37.8	35.4	N/A	N/A											
		Bedroom	W11	↘	37.8	35.5	N/A	N/A	98%	98%	0.00	1.00	70	65	N/A	N/A	22	21	N/A
	R8	Bedroom	W12	↘	37.8	35.6	N/A	N/A											
		Bedroom	W13	↙	35.4	35.4	N/A	N/A											
		Bedroom	W14	↙	35.3	35.3	N/A	N/A	100%	100%	0.00	1.00	94	89	N/A	N/A	26	25	N/A
	R9	KD	W15	↗	16.8	16.8	0.0	1.00											
		KD	W16	↗	19.0	19.0	0.0	1.00											
		KD	W17	↗	19.7	19.6	0.1	0.99	92%	92%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R10	Bedroom	W18	↗	18.8	18.5	0.3	0.98	69%	69%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
F04	R1	Bedroom	W1	↘	38.1	34.9	N/A	N/A	94%	94%	0.10	0.99	71	64	N/A	N/A	23	22	N/A
	R2	Bedroom	W2	↘	38.1	35.1	N/A	N/A	95%	94%	0.01	1.00	71	64	N/A	N/A	23	22	N/A
	R3	LKD	W3	↘	38.1	35.2	N/A	N/A											
		LKD	W4	↘	38.0	35.3	N/A	N/A											
		LKD	W5	↘	38.0	35.5	N/A	N/A	98%	96%	0.82	0.99	71	66	N/A	N/A	23	23	N/A
	R4	Bedroom	W6	↘	38.1	35.5	N/A	N/A	97%	97%	0.00	1.00	71	65	N/A	N/A	23	22	N/A
	R5	Bedroom	W7	↘	38.1	35.6	N/A	N/A	95%	95%	0.01	1.00	71	65	N/A	N/A	23	22	N/A
	R6	LKD	W8	↘	38.1	35.7	N/A	N/A											
		LKD	W9	↘	38.1	35.8	N/A	N/A	84%	84%	0.11	1.00	71	66	N/A	N/A	23	22	N/A
	R7	Bedroom	W10	↘	38.1	35.9	N/A	N/A											
		Bedroom	W11	↘	38.1	36.0	N/A	N/A	98%	98%	0.00	1.00	71	66	N/A	N/A	23	22	N/A
	R8	Bedroom	W12	↘	38.1	36.0	N/A	N/A											
		Bedroom	W13	↙	36.0	36.0	N/A	N/A											
		Bedroom	W14	↙	35.8	35.8	N/A	N/A	100%	100%	0.00	1.00	96	92	N/A	N/A	28	28	N/A
	R9	KD	W15	↗	19.2	19.2	0.0	1.00											
		KD	W16	↗	22.4	22.4	0.0	1.00											
		KD	W17	↗	23.0	22.9	0.1	1.00	93%	93%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R10	Bedroom	W18	↗	21.4	21.1	0.3	0.99	76%	76%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
F05	R1	Bedroom	W1	↘	38.3	35.5	N/A	N/A											
		Bedroom	W2	↘	38.3	35.6	N/A	N/A	98%	98%	0.00	1.00	71	64	N/A	N/A	23	22	N/A
	R2	LKD	W3	↘	38.3	35.8	N/A	N/A											
		LKD	W4	↘	38.3	35.8	N/A	N/A											
		LKD	W5	↘	38.3	35.9	N/A	N/A											
		LKD	W6	↘	38.3	36.0	N/A	N/A	96%	96%	0.08	1.00	71	67	N/A	N/A	23	23	N/A
	R3	Bedroom	W7	↘	38.3	36.1	N/A	N/A											
		Bedroom	W8	↘	38.3	36.2	N/A	N/A	98%	98%	0.01	1.00	71	67	N/A	N/A	23	23	N/A
	R4	Bedroom	W9	↘	38.3	36.3	N/A	N/A											
		Bedroom	W10	↘	38.3	36.3	N/A	N/A	99%	99%	0.00	1.00	71	67	N/A	N/A	23	23	N/A
	R5	Living Room	W11	↘	38.3	36.4	N/A	N/A											
		Living Room	W12	↘	38.3	36.5	N/A	N/A											
		Living Room	W13	↙	36.4	36.4	N/A	N/A											
		Living Room	W14	↙	36.3	36.3	N/A	N/A	100%	100%	0.01	1.00	96	92	N/A	N/A	28	28	N/A
	R6	KD	W15	↗	22.2	22.1	0.1	1.00											
		KD	W16	↗	26.0	25.5	0.5	0.98											
		KD	W17	↗	26.2	25.6	0.6	0.98	91%	91%	0.00	1.00	North	North	N/A	N/A	North	North	N/A

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Cum. (% VSC)	Loss (% VSC)	Pro/Cum ratio	Exis. (% rm)	Cum. (% rm)	Loss (m^2)	Pro/Cum ratio	Annual (%APSH) Exis.	Cum.	Loss	Pro/Cum	Winter (%APSH) Exis.	Cum.	Pro/Cum
	R7	Bedroom	W18	↗	24.4	23.7	0.7	0.97	72%	63%	1.57	0.87	North	North	N/A	N/A	North	North	N/A
40 Laystall St																			
F01	R1	Bedroom	W1	↖	15.5	0.3	15.2	0.02	82%	3%	13.95	0.04	North	North	N/A	N/A	North	North	N/A
	R2	LKD	W2	↖	29.5	20.2	9.3	0.68											
		LKD	W3	↖	33.8	26.0	7.8	0.77											
		LKD	W4	↖	33.6	26.1	7.5	0.78	100%	97%	0.75	0.97	North	North	N/A	N/A	North	North	N/A
	R3	LKD	W5	↖	23.1	18.4	4.7	0.80											
		LKD	W6	↖	33.1	26.5	6.6	0.80											
		LKD	W7	↖	32.8	26.8	6.0	0.82	100%	100%	0.02	1.00	North	North	N/A	N/A	North	North	N/A
	R4	LKD	W8	↖	22.4	18.8	3.6	0.84											
		LKD	W9	↖	32.4	27.2	N/A	N/A											
		LKD	W10	↖	32.3	27.5	N/A	N/A	100%	99%	0.10	1.00	North	North	N/A	N/A	North	North	N/A
	R5	LKD	W11	↖	21.8	19.2	2.6	0.88											
		LKD	W12	↖	31.8	27.6	N/A	N/A											
		LKD	W13	↖	31.6	27.9	N/A	N/A	100%	96%	1.03	0.97	North	North	N/A	N/A	North	North	N/A
	R6	LKD	W14	↖	21.4	19.7	1.7	0.92											
		LKD	W15	↖	31.6	28.4	N/A	N/A											
		LKD	W16	↖	31.6	28.7	N/A	N/A	100%	99%	0.30	0.99	North	North	N/A	N/A	North	North	N/A
	R7	LKD	W17	↖	21.5	20.4	1.1	0.95											
		LKD	W18	↖	31.7	29.3	N/A	N/A	94%	94%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R8	Bedroom	W19	↖	31.8	29.9	N/A	N/A	99%	99%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R9	Bedroom	W20	↖	31.9	30.0	N/A	N/A											
		Bedroom	W21	↖	31.9	30.0	N/A	N/A											
		Bedroom	W22	↙	13.6	13.6	0.0	1.00	98%	98%	0.00	1.00	37	36	N/A	N/A	10	10	N/A
F02	R1	Bedroom	W1	↖	15.7	0.4	15.3	0.03	82%	4%	13.89	0.04	North	North	N/A	N/A	North	North	N/A
	R2	LKD	W2	↖	30.6	21.7	8.9	0.71											
		LKD	W3	↖	35.3	28.0	N/A	N/A	100%	100%	0.02	1.00	North	North	N/A	N/A	North	North	N/A
	R3	LKD	W4	↖	26.4	21.8	4.6	0.83											
		LKD	W5	↖	34.3	27.7	N/A	N/A											
		LKD	W6	↖	34.8	28.8	N/A	N/A	99%	96%	0.83	0.97	North	North	N/A	N/A	North	North	N/A
	R4	LKD	W7	↖	34.7	29.0	N/A	N/A											
		LKD	W8	↖	33.8	28.8	N/A	N/A											
		LKD	W9	↖	27.6	23.4	4.2	0.85	99%	99%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R5	LKD	W10	↖	25.7	22.8	2.9	0.89											
		LKD	W11	↖	33.6	29.1	N/A	N/A											
		LKD	W12	↖	34.1	30.0	N/A	N/A	99%	98%	0.21	0.99	North	North	N/A	N/A	North	North	N/A
	R6	LKD	W13	↖	34.1	30.1	N/A	N/A											
		LKD	W14	↖	33.3	29.9	N/A	N/A											
		LKD	W15	↖	27.1	24.4	2.7	0.90	99%	99%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R7	LKD	W16	↖	34.0	31.0	N/A	N/A	99%	88%	3.01	0.89	North	North	N/A	N/A	North	North	N/A
	R8	Bedroom	W17	↖	34.1	31.6	N/A	N/A	94%	84%	1.50	0.89	North	North	N/A	N/A	North	North	N/A
	R9	Bedroom	W18	↖	34.1	31.8	N/A	N/A											
		Bedroom	W19	↙	17.1	17.1	0.0	1.00	96%	96%	0.01	1.00	45	44	N/A	N/A	11	11	N/A
Port Street - Consented 01																			
F01	R1	Bedroom	W1	↘	30.4	27.4	N/A	N/A											
		Bedroom	W2	↘	30.9	27.8	N/A	N/A	99%	99%	0.00	1.00	35	30	N/A	N/A	6	4	0.67
	R2	Bedroom	W3	↘	31.3	28.2	N/A	N/A											
		Bedroom	W4	↘	31.8	28.6	N/A	N/A	98%	98%	0.00	1.00	37	32	N/A	N/A	8	6	N/A
	R3	Bedroom	W5	↘	32.3	29.0	N/A	N/A											
		Bedroom	W6	↘	32.7	29.3	N/A	N/A											
		Bedroom	W7	↘	33.0	29.6	N/A	N/A											
		Bedroom	W8	↗	32.8	30.4	N/A	N/A											
		Bedroom	W9	↗	32.5	30.2	N/A	N/A											
		Bedroom	W10	↗	32.1	29.8	N/A	N/A											
		Bedroom	W11	↗	31.1	28.9	N/A	N/A	100%	100%	0.00	1.00	42	38	N/A	N/A	9	8	N/A
	R4	Bedroom	W12	↗	26.0	23.8	2.2	0.92											
		Bedroom	W13	↗	13.6	13.4	0.2	0.99	98%	98%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R5	Bedroom	W14	↗	13.6	12.2	1.4	0.90											
		Bedroom	W15	↗	14.6	14.6	0.0	1.00	98%	97%	0.15	0.99	North	North	N/A	N/A	North	North	N/A

Property, room & window attributes					VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Cum. (% VSC)	Loss (% VSC)	Pro/Cum ratio	Exis. (% rm)	Cum. (% rm)	Loss (m^2)	Pro/Cum ratio	Annual (%APSH) Exis.	Cum.	Loss	Pro/Cum	Winter (%APSH) Exis.	Cum.	Pro/Cum
F02	R1	Bedroom	W1	↘	32.4	29.7	N/A	N/A											
		Bedroom	W2	↘	32.8	30.0	N/A	N/A	99%	99%	0.00	1.00	37	33	N/A	N/A	8	7	N/A
	R2	Bedroom	W3	↘	33.1	30.2	N/A	N/A											
		Bedroom	W4	↘	33.5	30.5	N/A	N/A	98%	98%	0.00	1.00	39	35	N/A	N/A	10	9	N/A
	R3	Bedroom	W5	↘	33.8	30.8	N/A	N/A											
		Bedroom	W6	↘	34.1	31.1	N/A	N/A											
		Bedroom	W7	↘	34.4	31.3	N/A	N/A											
		Bedroom	W8	↗	34.6	32.3	N/A	N/A											
		Bedroom	W9	↗	34.3	32.2	N/A	N/A											
		Bedroom	W10	↗	34.0	31.9	N/A	N/A											
		Bedroom	W11	↗	33.0	30.9	N/A	N/A	100%	100%	0.00	1.00	43	40	N/A	N/A	10	9	N/A
	R4	Bedroom	W12	↗	27.6	25.7	1.9	0.93											
		Bedroom	W13	↗	15.2	15.1	0.1	0.99	98%	98%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R5	Bedroom	W14	↗	15.1	13.8	1.3	0.91											
		Bedroom	W15	↗	16.5	16.5	0.0	1.00	98%	97%	0.09	0.99	North	North	N/A	N/A	North	North	N/A
F03	R1	Bedroom	W1	↘	34.5	32.0	N/A	N/A											
		Bedroom	W2	↘	34.7	32.2	N/A	N/A	99%	99%	0.00	1.00	38	34	N/A	N/A	9	8	N/A
	R2	Bedroom	W3	↘	34.9	32.3	N/A	N/A											
		Bedroom	W4	↘	35.2	32.5	N/A	N/A	98%	98%	0.00	1.00	40	36	N/A	N/A	11	10	N/A
	R3	Bedroom	W5	↘	35.4	32.7	N/A	N/A											
		Bedroom	W6	↘	35.6	32.8	N/A	N/A											
		Bedroom	W7	↘	35.8	32.9	N/A	N/A											
		Bedroom	W8	↗	35.9	33.9	N/A	N/A											
		Bedroom	W9	↗	35.7	33.7	N/A	N/A											
		Bedroom	W10	↗	35.4	33.4	N/A	N/A											
		Bedroom	W11	↗	34.4	32.5	N/A	N/A	100%	100%	0.00	1.00	44	41	N/A	N/A	11	10	N/A
	R4	Bedroom	W12	↗	28.9	27.1	N/A	N/A											
		Bedroom	W13	↗	16.3	16.1	0.2	0.99	98%	98%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R5	Bedroom	W14	↗	16.2	15.1	1.1	0.93											
		Bedroom	W15	↗	17.9	17.8	0.1	0.99	98%	97%	0.04	1.00	North	North	N/A	N/A	North	North	N/A
F04	R1	Bedroom	W1	↘	36.1	33.9	N/A	N/A											
		Bedroom	W2	↘	36.3	34.0	N/A	N/A	99%	99%	0.00	1.00	41	38	N/A	N/A	12	11	N/A
	R2	Bedroom	W3	↘	36.4	34.1	N/A	N/A											
		Bedroom	W4	↘	36.6	34.2	N/A	N/A	98%	98%	0.00	1.00	42	39	N/A	N/A	13	12	N/A
	R3	Bedroom	W5	↘	36.7	34.2	N/A	N/A											
		Bedroom	W6	↘	36.8	34.3	N/A	N/A											
		Bedroom	W7	↘	36.9	34.4	N/A	N/A											
		Bedroom	W8	↗	37.0	35.2	N/A	N/A											
		Bedroom	W9	↗	36.8	35.1	N/A	N/A											
		Bedroom	W10	↗	36.5	34.7	N/A	N/A											
		Bedroom	W11	↗	35.4	33.8	N/A	N/A	100%	100%	0.00	1.00	46	43	N/A	N/A	13	12	N/A
	R4	Bedroom	W12	↗	29.9	28.3	N/A	N/A											
		Bedroom	W13	↗	17.0	16.9	0.1	0.99	98%	98%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R5	Bedroom	W14	↗	17.1	16.1	1.0	0.94											
		Bedroom	W15	↗	18.9	18.8	0.1	0.99	98%	97%	0.04	1.00	North	North	N/A	N/A	North	North	N/A
F05	R1	Bedroom	W1	↘	37.5	35.5	N/A	N/A											
		Bedroom	W2	↘	37.6	35.6	N/A	N/A	99%	99%	0.00	1.00	41	38	N/A	N/A	12	11	N/A
	R2	Bedroom	W3	↘	37.6	35.6	N/A	N/A											
		Bedroom	W4	↘	37.7	35.6	N/A	N/A	98%	98%	0.00	1.00	42	39	N/A	N/A	13	12	N/A
	R3	Bedroom	W5	↘	37.8	35.6	N/A	N/A											
		Bedroom	W6	↘	37.8	35.6	N/A	N/A											
		Bedroom	W7	↘	37.9	35.6	N/A	N/A											
		Bedroom	W8	↗	37.8	36.2	N/A	N/A											
		Bedroom	W9	↗	37.7	36.1	N/A	N/A											
		Bedroom	W10	↗	37.3	35.8	N/A	N/A											
		Bedroom	W11	↗	36.3	34.8	N/A	N/A	100%	100%	0.00	1.00	46	43	N/A	N/A	13	12	N/A
	R4	Bedroom	W12	↗	30.6	29.2	N/A	N/A											
		Bedroom	W13	↗	17.5	17.4	0.1	0.99	98%	98%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R5	Bedroom	W14	↗	17.7	16.8	0.9	0.95											
		Bedroom	W15	↗	19.6	19.5	0.1	0.99	98%	97%	0.03	1.00	North	North	N/A	N/A	North	North	N/A
F06	R1	Bedroom	W1	↘	38.6	36.9	N/A	N/A											

Property, room & window attributes				VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation	Exis. (% VSC)	Cum. (% VSC)	Loss (% VSC)	Pro/Cum ratio	Exis. (% rm)	Cum. (% rm)	Loss (m^2)	Pro/Cum ratio	Annual (%APSH) Exis.	Cum.	Loss	Pro/Cum	Winter (%APSH) Exis.	Cum.	Pro/Cum
		Bedroom	W2 ↘	38.6	36.8	N/A	N/A	99%	99%	0.00	1.00	41	38	N/A	N/A	12	11	N/A
	R2	Bedroom	W3 ↘	38.6	36.8	N/A	N/A											
		Bedroom	W4 ↘	38.6	36.8	N/A	N/A	98%	98%	0.00	1.00	42	39	N/A	N/A	13	12	N/A
	R3	Bedroom	W5 ↘	38.6	36.7	N/A	N/A											
		Bedroom	W6 ↘	38.6	36.7	N/A	N/A											
		Bedroom	W7 ↘	38.6	36.6	N/A	N/A											
		Bedroom	W8 ↗	38.4	36.9	N/A	N/A											
		Bedroom	W9 ↗	38.2	36.8	N/A	N/A											
		Bedroom	W10 ↗	37.9	36.5	N/A	N/A											
		Bedroom	W11 ↗	36.8	35.5	N/A	N/A	100%	100%	0.00	1.00	46	44	N/A	N/A	13	12	N/A
	R4	Bedroom	W12 ↗	31.1	29.8	N/A	N/A											
		Bedroom	W13 ↗	17.9	17.8	0.1	0.99	98%	98%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R5	Bedroom	W14 ↗	18.1	17.2	0.9	0.95											
		Bedroom	W15 ↗	20.1	20.0	0.1	1.00	98%	97%	0.03	1.00	North	North	N/A	N/A	North	North	N/A

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