



## DAYLIGHT & SUNLIGHT

**Lampwick Lane, Manchester**

Urban Splash

**28 November 2023**

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# CONTENTS

|   |                                                                       |    |
|---|-----------------------------------------------------------------------|----|
| 1 | <b>EXECUTIVE SUMMARY</b>                                              | 2  |
| 2 | <b>THE SITE</b>                                                       | 3  |
| 3 | <b>POLICY &amp; THE WIDER CONTEXT</b>                                 | 5  |
| 4 | <b>BRE GUIDELINES &amp; CONTEXT<br/>METHODOLOGY</b>                   | 6  |
| 5 | <b>DAYLIGHT &amp; SUNLIGHT IMPACTS TO<br/>NEIGHBOURING PROPERTIES</b> | 7  |
| 6 | <b>CONCLUSIONS</b>                                                    | 12 |

## APPENDICES

APPENDIX 01  
**PRINCIPLES OF DAYLIGHT, SUNLIGHT OVERSHADOWING**

APPENDIX 02  
**DRAWINGS**

APPENDIX 03  
**RESULTS**

# 1 EXECUTIVE SUMMARY

GIA have assessed the Glenn Howells Architects' scheme (the "Proposed Development") for Lampwick Lane, Manchester to understand the potential changes in light to the relevant sensitive receptors.

- 1.1 GIA have been instructed by Urban Splash to undertake detailed technical assessments to understand the potential daylight and sunlight changes that the Proposed Development at Lampwick Lane, Manchester, will have upon the surrounding residential properties.
- 1.2 The daylight and sunlight review within this report considers residential properties only as they are recognised by the Building Research Establishment (BRE) as having the highest expectation for natural light when compared to other uses – such as commercial. The criteria suggested within the BRE guidelines have been used to understand and compare the existing levels of light, and the light achieved subsequent to the development of the Proposed Development.
- 1.3 With the except of the newly converted Ancoats Dispensary, the construction of the Proposed Development will result in changes in daylight and sunlight amenity to the surrounding residential properties which are either fully BRE compliant or minor in significance as well as leaving retained values which are very reasonable in context .
- 1.4 The windows in the north east facing elevation of Ancoats Dispensary derive their light across the currently undeveloped site. Development of it to an extent which has previously been consented will, therefore, result in changes in daylight and sunlight amenity which breach BRE guidance.
- 1.5 The majority of the rooms served by these windows do, however, have mitigating windows which retain very reasonable in context levels of sky visibility to the effect that these rooms will all continue to benefit from daylight distribution (NSL) to between 71% and 94% of their areas.
- 1.6 These dual aspect layouts clearly indicate that this building was designed in acknowledgement the site would, at some point, be developed along the lines of the 2016 planning consent for it. This is further evidenced by the fact that there are only 4 single aspect rooms with all of their windows deriving their light over the site and they are all bedrooms, which have a lesser requirement for natural light by virtue of their usage.
- 1.7 These 4 bedrooms will experience noticeable changes in daylight amenity as a consequence of the construction of the Proposed Development. The the windows serving 3 of them will, however, retain VSC levels of between 22% and 25% which is very good for a bedroom in an urban location.
- 1.8 Whilst the remaining bedroom will be unable to retain similar levels of daylight amenity, it should be borne in mind that the Proposed Development only affects one room in such a way, it is a bedroom and VSC from the two windows serving this room only differ by an unnoticeable 0.9% and 1.1% compared to what they would have benefited from had the consented scheme been constructed.
- 1.9 Overall, the daylight and sunlight effects of developing the site in line with the Proposed Development will result in changes in daylight and sunlight amenity to the surrounding residential properties which are considered to be reasonable in context.
- 1.10 Since writing this report we have been advised that the massing of the Proposed Development has changed. Having overlaid the model that was assessed to inform this report with the new scheme proposal, it is evident that the current scheme massing is the same height as that assessed but slightly smaller in footprint.
- 1.11 On this basis the content of this report presents a worst case scenario assessment and, whilst a full reassessment would show some small improvements to any daylight and, where relevant, sunlight effects, these improvements are unlikely to change the overall conclusions detailed herein.

## 2 THE SITE

GIA have been instructed to review and advise on the daylight, sunlight and overshadowing impacts associated with the implementation of the proposed redevelopment of Lampwick Lane, Manchester.

### THE SITE

- 2.1 The cleared development site is bounded by Old Mill Street to the north, Upper Kirby Street to the west, Stubbs Mill to the south east and Manchester Life's Lampwick development to the south west.
- 2.2 Figure 01 below illustrates the existing site. Further drawings are enclosed at Appendix 02 of this report.

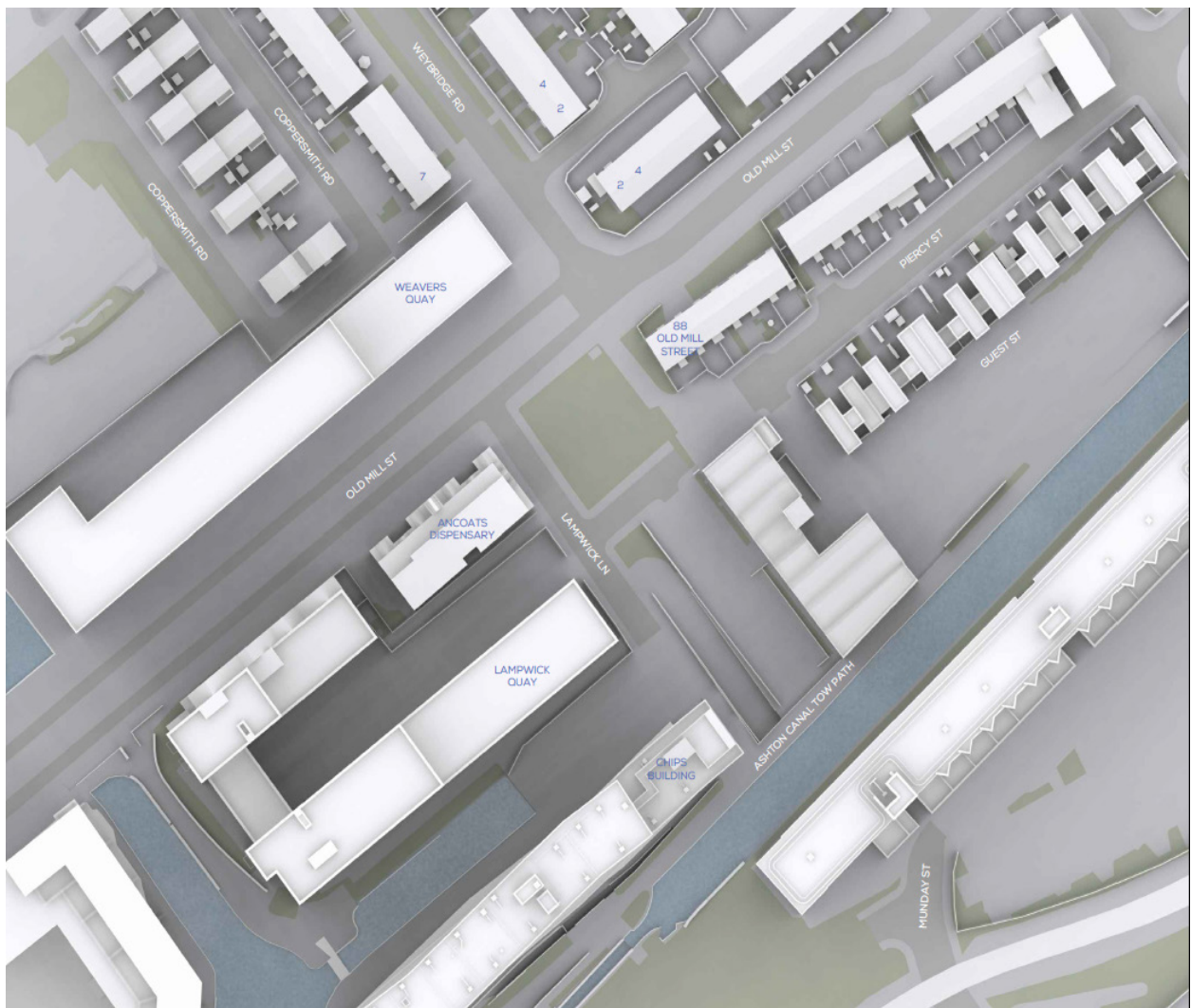


Figure 01: 3D model of the site and Existing Property

## PROPOSED DEVELOPMENT

- 2.3 Our analysis of this option is based on the proposed scheme massing model produced by Glenn Howells Architects received on 18 October 2023.
- 2.4 GLA's understanding of the proposed development is illustrated in Figure 02 and further drawings are enclosed at Appendix 02.

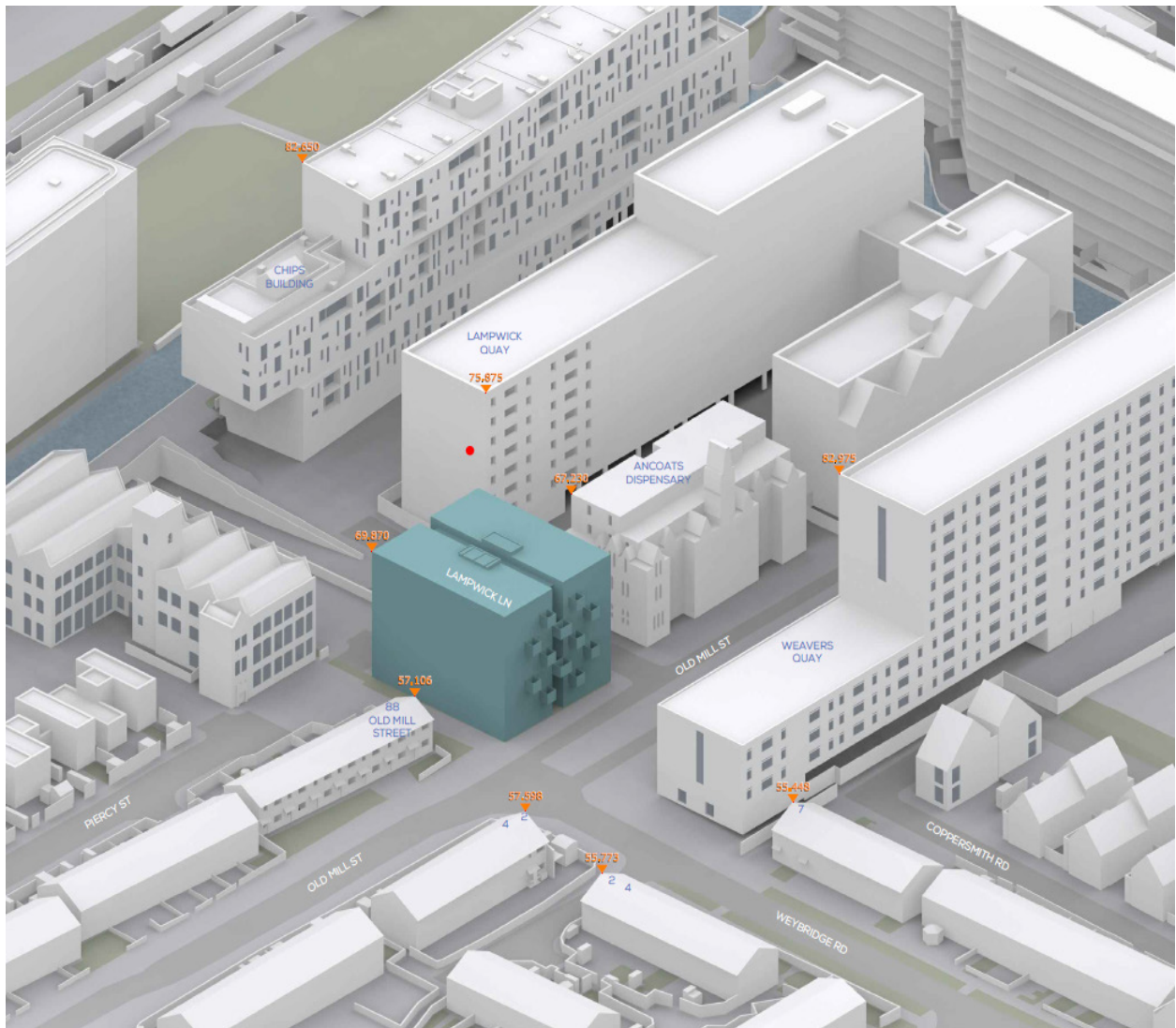


Figure 02: 3D Perspective View of the Proposed Scheme

### 3 POLICY & THE WIDER CONTEXT

3.1 Below we have detailed sections from the following documents as they are, in our opinion, the most pertinent in relation to daylight and sunlight matters and how we have approached the effects of the Proposed Development on the relevant neighbouring properties:

- National Planning Policy Framework (2023);
- National Planning Practice Guidance (2021);
- Manchester Core Strategy (2012 – 2027); and
- Guide to Development in Manchester Supplementary Planning Document and Planning Guidance (Adopted April 2007).

#### NATIONAL PLANNING POLICY FRAMEWORK (SEPTEMBER 2023)

3.2 The NPPF (September 2023) states that local planning authorities should refuse applications which they consider fail to make efficient use of land. The discussion in relation to daylight and sunlight highlights the Government's recognition that increased flexibility is required in response to the requirement for higher density development:

*"Local planning authorities should refuse applications which they consider fail to make efficient use of land, taking into account the policies in this Framework. In this context, when considering applications for housing, authorities should take a flexible approach in applying policies or guidance relating to daylight and sunlight, where they would otherwise inhibit making efficient use of a site (as long as the resulting scheme would provide acceptable living standards)".*

#### NATIONAL PLANNING PRACTICE GUIDANCE (JUNE 2021)

3.3 In light of the update to the Government's Planning Practice Guidance, GIA have considered the relevant paragraphs which relate to daylight and sunlight.

3.4 Paragraph 6 of the NPPG (Ref ID: 66-006-20190722) acknowledges that new development may cause an impact on daylight and sunlight levels enjoyed by neighbouring occupiers. It requires local authorities to assess whether the impact to neighbouring occupiers would be "unreasonable".

3.5 Paragraph 7 (Ref ID: 66-007-20190722) refers to the wider planning considerations in assessing appropriate levels of daylight and sunlight. The test is whether living standards are 'acceptable' and recognises that acceptability will depend to some extent on context.

#### MANCHESTER CORE STRATEGY (2012 – 2027)

3.6 Policy DM1 – Development Management – States that all developments should have regard to the effects on amenity including privacy, light, noise, vibration, air quality and odours.

#### GUIDE TO DEVELOPMENT IN MANCHESTER SUPPLEMENTARY PLANNING DOCUMENT AND PLANNING GUIDANCE (ADOPTED APRIL 2007)

3.7 The SPD sets out a series of design principles which should be considered and implemented where necessary, those measures relevant to this assessment are:

- Minimise reliance on energy-using equipment for heating, cooling, lighting and natural ventilation.
- Site layout and building design principles should maximise the capture and use of daylight and passive solar energy, whilst avoiding excessive solar gain in the summer.
- Consider the impacts of overshadowing.

## 4 BRE GUIDELINES & CONTEXT METHODOLOGY

The Building Research Establishment (BRE) have set out in their handbook '*Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice (BR209, 2022)*', guidelines and methodology for the measurement and assessment of daylight and sunlight.

### BUILDING RESEARCH ESTABLISHMENT GUIDELINES (BR209, 2022)

- 4.1 The BRE Guidelines note that the document is intended to be used in conjunction with the interior daylight recommendations found within the British Standard BS EN 17037 Daylighting in Buildings and the Chartered Institution of Building Services Engineers (CIBSE) LG 10 Daylighting – a guide for designers.
- 4.2 The BRE handbook "*is intended for use in rooms in adjoining dwellings where daylight is required, including living rooms, kitchens, and bedrooms. Windows to bathrooms, toilets, storerooms, circulation areas, and garages need not be analysed. The guidelines may also be applied to any existing non-domestic building where the occupants have a reasonable expectation of daylight; this would normally include schools, hospitals, hotels and hostels, small workshops, and some offices.*"
- 4.3 The BRE Guidelines provides two methodologies for daylight assessment of neighbouring properties, namely;
- The Vertical Sky Component (VSC); and
  - The No Sky Line (NSL).
- 4.4 There is one methodology provided by the BRE Guidelines for sunlight assessment, denoted as Annual Probable Sunlight Hours (APSH).
- 4.5 It is an inevitable consequence of the built-up urban environment that daylight and sunlight will be more limited in dense urban areas. It is well acknowledged that in such situations there may be many planning and urban design matters to consider other than daylight and sunlight.
- 4.6 Appendix O1 of this report elaborates on the mechanics of each of the above assessment criteria, explains the appropriateness of their use and the parameters of each specific recommendation.

- 4.7 The following table provides a summary of the criteria set out within the BRE Guidelines for daylight and sunlight.

| Method | BRE Criteria                                                                                                                                                                                                                                                                                                                                                                                            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VSC    | A window may be adversely affected if its VSC measured at the centre of the window is less than 27% and less than 0.8 times its former value.                                                                                                                                                                                                                                                           |
| NSL    | A room may be adversely affected if the daylight distribution (NSL) is reduced beyond 0.8 times its existing area.                                                                                                                                                                                                                                                                                      |
| APSH   | A window may be adversely affected if a point at the centre of the window receives for the whole year, less than 25% of the APSH including at least 5% of the APSH during the winter months (21 September to 21 March) and less than 0.8 times its former sunlight hours during either period, and for existing neighbouring buildings, if there is a reduction in total APSH which is greater than 4%. |

- 4.8 When considering the significance of daylight and sunlight effects, professional judgement has been used. Consideration has been given to the proportion of rooms/windows affected, as well as the percentage alterations, absolute changes, retained daylight and sunlight levels and sensitivity of the receptor. This is in addition to any other relevant factors, including mitigating factors such as location and nature of the development, balconies, overhangs or design features which may also affect the determination of assigning the criteria.

## 5 DAYLIGHT & SUNLIGHT IMPACTS TO NEIGHBOURING PROPERTIES

This section details the daylight and sunlight impacts in relation to the relevant properties neighbouring the Site.

- 5.1 We have created a three-dimensional computer model of the site and the surrounding properties to allow for a detailed daylight and sunlight assessment.
- 5.2 The benchmark condition of the site allows us to calculate the daylight and sunlight conditions within the neighbouring buildings. From this, we can then compare them with the conditions within these properties assuming the Proposed Development is in place.
- 5.3 It is well-established and accepted that the BRE Guidelines, which set out the numerical benchmark for daylight and sunlight assessments, are predicated on a relatively low rise suburban environment. The methodologies and the resultant BRE daylight and sunlight recommendations are also predicated upon this suburban model. The guidance provided by the BRE is not mandatory and it is principally proposed to aid the architects and planners in achieving good site design. Clearly, in more densely developed urban locations and urban areas such as this site, the technical specifications recommended by the BRE Guidelines need to be treated with care.
- 5.6 Any change in the daylight and, where relevant, sunlight amenity of the following properties will fully comply with the BRE target criteria with the Proposed Development in place. These properties are not, therefore, discussed in any further detail.
- 2 Tavery Cl
  - 4 Tavery Cl
  - 7 Weybridge Road
  - 2 Weybridge Rd
  - 4 Weybridge Rd
  - Chips
- 5.7 The effect of the Proposed Development upon the remaining properties is fully discussed in the following sections. All results can be found in Appendix 03.

### RELEVANT SENSITIVE RECEPTORS

- 5.4 GIA have identified the following properties as relevant for daylight assessment:
- 88 Old Mill Street
  - Ancoats Dispensary
  - 2 Tavery Cl
  - 4 Tavery Cl
  - 7 Weybridge Road
  - 2 Weybridge Rd
  - 4 Weybridge Rd
  - Lampwick Quay
  - Weavers Quay
  - Chips
- 5.5 The properties which are highlighted in yellow in paragraph 5.4 also have one or more rooms which are material for sunlight assessment on the basis that they are orientated to within 90 degrees of due south.

## 88 OLD MILL STREET

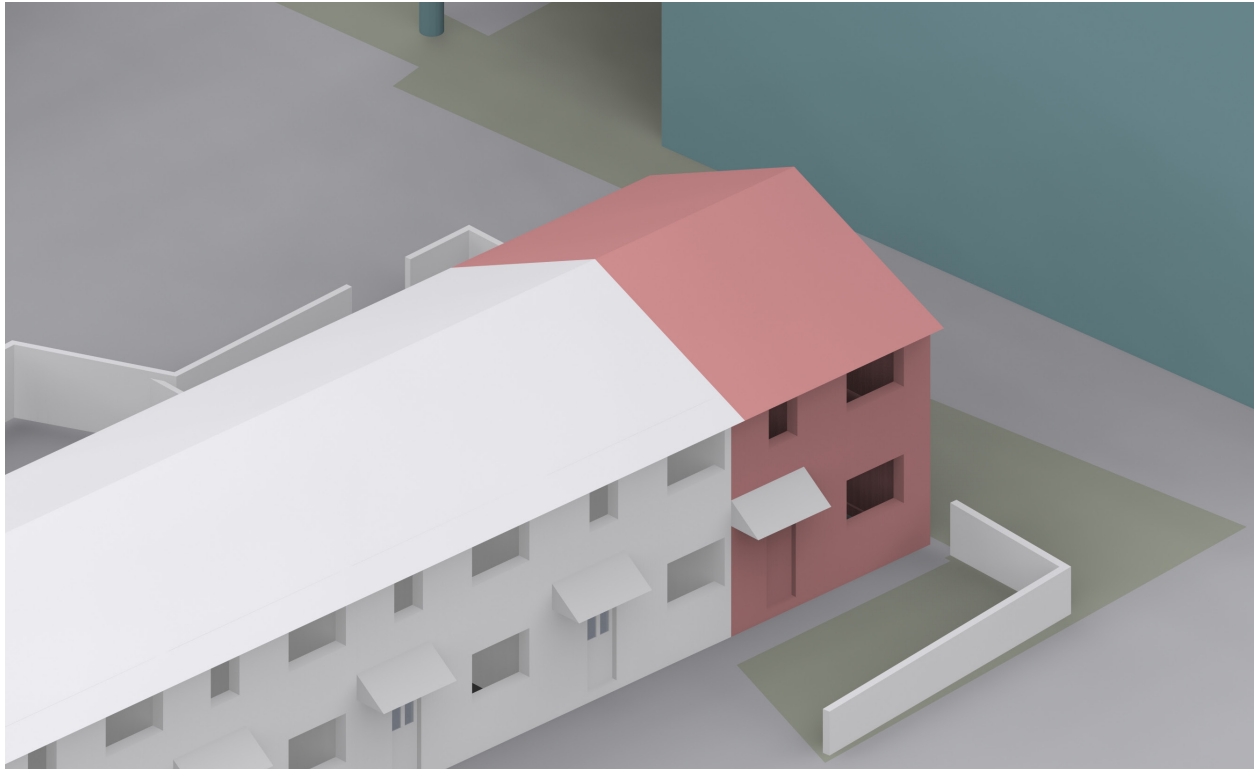


Figure 03: 88 Old Mill Street

- 5.8 7 windows serving 7 site facing rooms have been modelled and analysed.

### DAYLIGHT

- 5.9 The changes in daylight amenity (VSC & NSL) to 6 of the 7 rooms will be BRE compliant.
- 5.10 The change in VSC to the window serving the remaining room will be fully BRE compliant and, considering its urban location, will also retain a very reasonable 22% VSC against the BRE recommended 27%. The room will, however, experience a change in NSL which breaches BRE guidance but only to a minor extent (28% compared to the BRE recommended 20%). Despite this change, the room will continue to benefit from daylight distribution to over 60% of its area.

### SUNLIGHT

- 5.11 Any change in sunlight amenity to 2 of 3 rooms that are material for consideration in sunlight terms will be fully BRE compliant. The change in sunlight amenity to the remaining room will leave it with 36% total APSH against the BRE recommended 25% and 4% winter APSH against the BRE recommended 5%. This is a very good level of sunlight amenity considering the urban location of this property, where it is acknowledged that sunlighting targets are more difficult to achieve.

## ANCOATS DISPENSARY

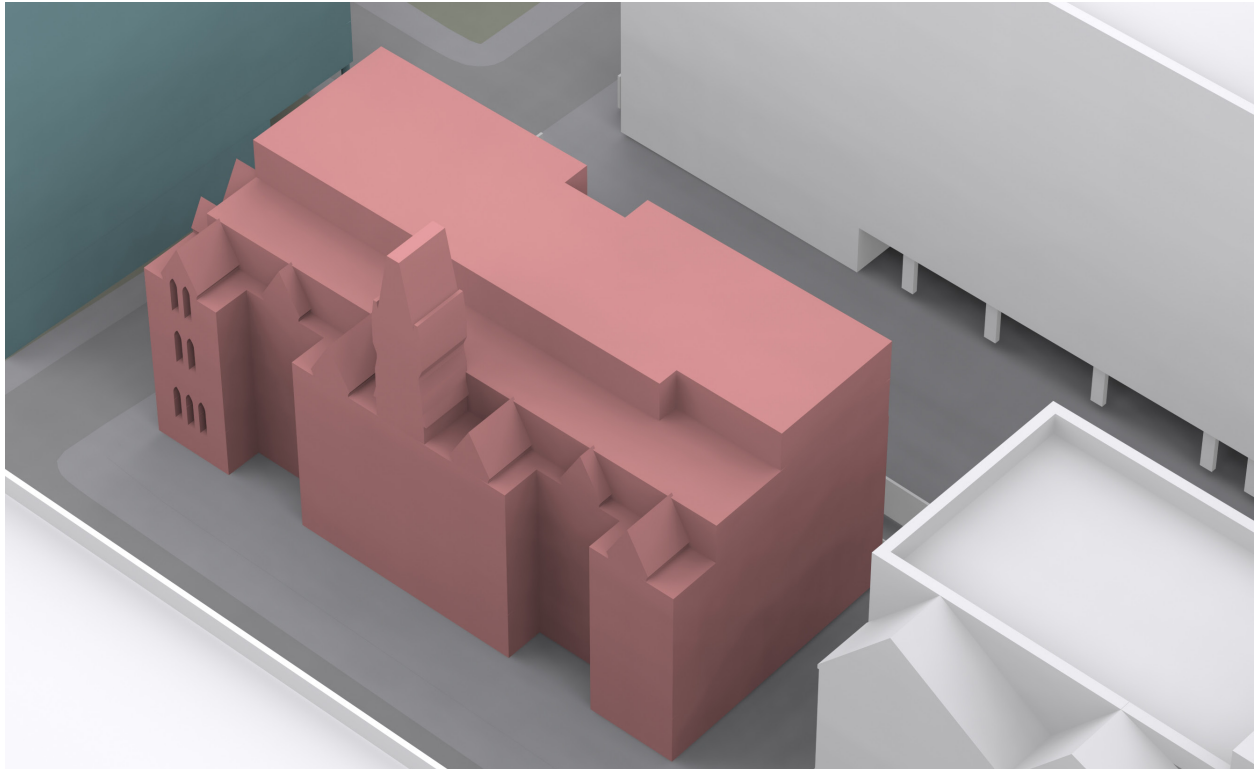


Figure 04: Ancoats Dispensary

- 5.12 27 windows serving 13 site facing rooms have been modelled and analysed for daylight. This property is not material for consideration in sunlight terms as none of its windows are orientated to within 90 degrees of due south.
- 5.13 The changes in daylight amenity (VSC & NSL) to 2 of the 13 rooms will be BRE compliant.
- 5.14 8 of the remaining 11 rooms (3 living/kitchen/dining rooms and 5 bedrooms) are all dual aspect but they have at least one window which derives light across the currently undeveloped site.
- 5.15 Construction of the Proposed Development will therefore result in the windows which directly face the site experiencing changes in sky visibility (VSC) that breach BRE guidance. That said, all 8 rooms will have one or more mitigating windows which will retain VSC levels of between 16.6% and 31% with the Proposed Development in place ie all above 15% which is widely acknowledged as being reasonable within an urban context. As a result of these retained VSC levels, all of the rooms served by these windows will retain daylight distribution (NSL) to between 71% and 94% of their areas.
- 5.16 These dual aspect layouts clearly indicate that this building was designed in acknowledgement that site would, at some point, be developed along the lines of the 2016 planning consent for it. This is further evidenced by the fact that there are only 3 single aspect rooms with all of their windows deriving their light over the site and they are all bedrooms, which have a lesser requirement for natural light by virtue of their usage.
- 5.17 These 3 bedrooms will experience noticeable changes in daylight amenity as a consequence of the construction of the Proposed Development. The, the windows serving 2 of them will, however, retain VSC levels of between 22% and 25% which is very good for a bedroom in an urban location.
- 5.18 Whilst the remaining bedroom will be unable to retain similar levels of daylight amenity, it should be borne in mind that the Proposed Development only affects one room in such a way, it is a bedroom and VSC from the two windows serving this room only differ by an unnoticeable 0.9% and 1.1% compared to what they would have benefited from had the consented scheme been constructed.

## LAMPWICK QUAY

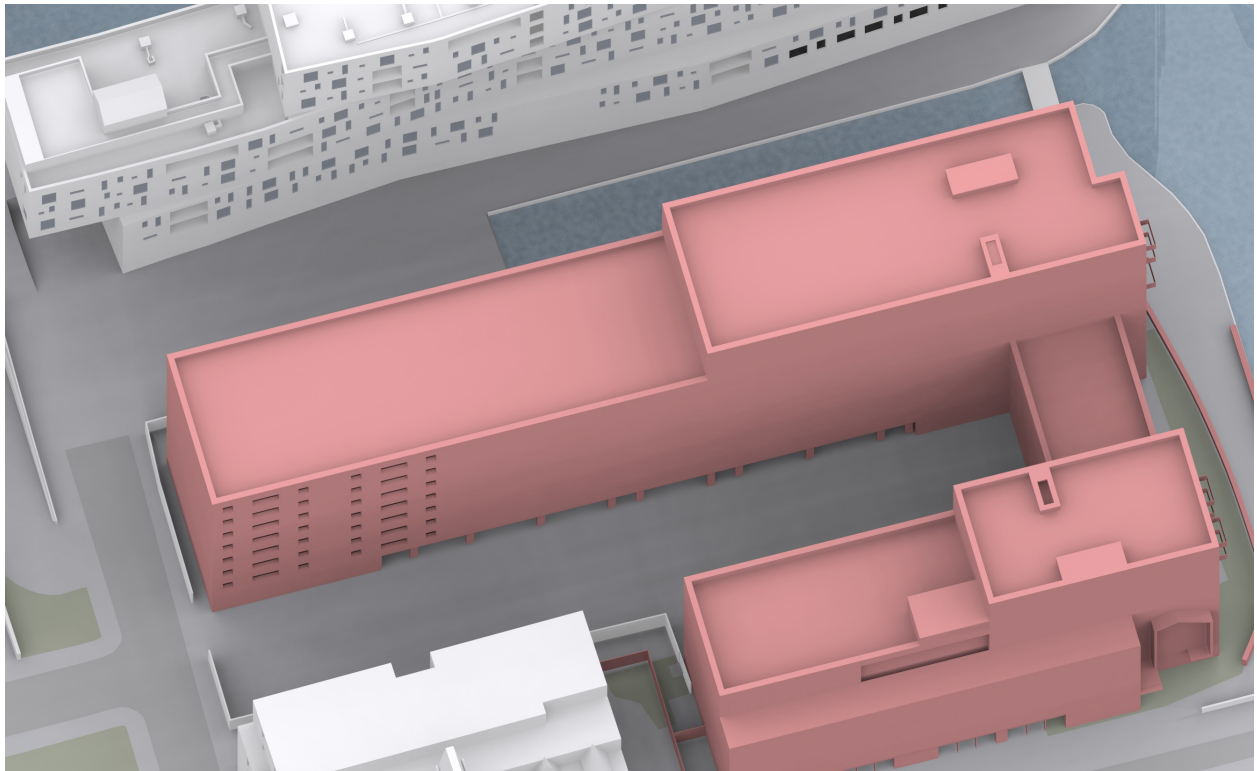


Figure 05: Lampwick Quay

- 5.19 42 windows serving 41 site facing rooms have been modelled and analysed. This property is not material for consideration in sunlight terms as none of its windows are orientated to within 90 degrees of due south.
- 5.20 The changes in daylight amenity (VSC & NSL) to 40 of the 41 rooms will be BRE compliant.
- 5.21 The VSC to the window serving the remaining room will breach BRE guidance but only to a very minor extent (22% compared to the BRE recommended 20%) and will retain a very reasonable in contact 21% VSC.
- 5.22 The room serviced by this window will be fully BRE compliant in NSL terms and retain daylight distribution to 72% of its area.

## WEAVERS QUAY



Figure 06: Weavers Quay

- 5.23 102 windows serving 51 site facing rooms have been modelled and analysed.

### DAYLIGHT

- 5.24 The changes in daylight amenity (VSC & NSL) to 49 of the 51 rooms will be BRE compliant.
- 5.25 The change in VSC to the windows serving the remaining 2 rooms will be fully BRE compliant and, considering their urban location, will also retain a very good 29% & 31% VSC against the BRE recommended 27%
- 5.26 Both rooms will, however, experience changes in NSL which breach BRE guidance but only to a minor extent (25% compared to the BRE recommended 20%). Despite this change, both rooms will continue to benefit from daylight distribution to 75% of their areas.

### SUNLIGHT

- 5.27 Any change in sunlight amenity to all 21 rooms that are material for consideration in sunlight terms will be fully BRE compliant.

## 6 CONCLUSIONS

GIA have undertaken a daylight and sunlight assessment in relation to the Proposed Development known as Lampwick Lane, Manchester. The technical analysis has been undertaken in accordance with the BRE handbook.

- 6.1 With the exception of the newly converted Ancoats Dispensary, the construction of the Proposed Development will result in changes in daylight and sunlight amenity to the surrounding residential properties which are either fully BRE compliant or minor in significance as well as leaving retained values which are very reasonable in context.
- 6.2 The windows in the north west facing elevation of Ancoats Dispensary derive their light across the currently undeveloped site. Development of it to an extent which has previously been consented will, therefore, result in changes in daylight and sunlight amenity which breach BRE guidance.
- 6.3 The majority of the rooms served by these windows do, however, have mitigating windows which retain very reasonable in context levels of sky visibility to the effect that these rooms will all continue to benefit from daylight distribution (NSL) to between 71% and 94% of their areas.
- 6.4 These dual aspect layouts clearly indicate that this building was designed in acknowledgement that site would, at some point, be developed along the lines of the 2016 planning consent for it. This is further evidenced by the fact that there are only 4 single aspect rooms with all of their windows deriving their light over the site and they are all bedrooms, which have a lesser requirement for natural light by virtue of their usage.
- 6.5 These 4 bedrooms will experience noticeable changes in daylight amenity as a consequence of the construction of the Proposed Development. The windows serving 3 of them will, however, retain VSC levels of between 22% and 25% which is very good for a bedroom in an urban location.
- 6.6 Whilst the remaining bedroom will be unable to retain similar levels of daylight amenity, it should be borne in mind that the Proposed Development only affects one room in such a way, it is a bedroom and VSC from the two windows serving this room only differ by an unnoticeable 0.9% and 1.1% compared to what they would have benefited from had the consented scheme been constructed.
- 6.7 Overall, the daylight and sunlight effects of developing the site in line with the Proposed Development will result in changes in daylight and sunlight amenity to the surrounding residential properties which are considered to be reasonable in context.



APPENDIX 01

# PRINCIPLES OF DAYLIGHT, SUNLIGHT & OVERSHADOWING

## APPENDIX 01

# PRINCIPLES OF DAYLIGHT, SUNLIGHT & OVERSHADOWING

The Building Research Establishment (BRE) have set out in their handbook 'Site Layout Planning for Daylight & Sunlight: A Guide to Good Practice 3<sup>rd</sup> edition (2022)', guidelines and methodology for the measurement and assessment of daylight, sunlight and overshadowing.

### BACKGROUND & CONTEXT

A 2.1 The quality of daylight and sunlight amenity as well as the overshadowing of open spaces is often stipulated within planning policy for protection or enhancement and a concern for adjoining owners and other interested parties.

A 2.2 The BRE Guidelines provide advice on site layout planning to determine the quality of daylight and sunlight both within buildings and reaching open spaces.

A 2.3 The BRE Guidelines note that the document is intended to be used in conjunction with the interior daylight recommendations found within the British Standard Daylight in buildings, BS EN 17037 and the CIBSE Publication LG 10 Daylighting – a guide for designers.

A 2.4 Whilst the BRE Guidelines are typically referred to for daylight sunlight and overshadowing matters within the planning process, they were not intended to be used as an instrument of planning policy, nor were the figures intended to be fixedly applied to all locations.

A 2.5 In the introduction of 'Site Layout Planning for daylight and sunlight (2022)', section 1.6 (page 7), states that:

*"The guide is intended for building designers and their clients, consultants and planning officials. The advice given here is not mandatory and this document should not be seen as an instrument of planning policy; its aim is to help rather than constrain the designer. Although it gives numerical guidelines, these should be interpreted flexibly since natural lighting is only one of many factors in site layout design (see Section 5). In special circumstances the developer or planning authority may wish to use different target values. For example, in a historic city centre, or in an area with modern high-rise buildings, a higher degree of obstruction may be unavoidable if new developments are to match the height and proportions of existing buildings".*

A 2.6 Paragraph 2.2.3 (page 14) of the document states:

*"Note that numerical values given here are purely advisory. Different criteria may be used based on the requirements for daylighting in an area viewed against other site layout constraints".*

A 2.7 The numerical criteria suggested by the BRE are therefore designed to provide industry advice/guidance to plan/design with daylight in mind. Alternative values may be appropriate in certain circumstances such as highly dense urban areas. The BRE approach to creating alternative criteria is detailed within Appendix F of the Document.

A 2.8 Paragraph 2.2.2 (page 14) of the BRE Guidelines states:

*"intended for use for rooms in adjoining dwellings where daylight is required, including living rooms, kitchens, and bedrooms. Windows to bathrooms, toilets, storerooms, circulation areas, and garages need not be analysed."*

A 2.9 Although primarily designed to be used for residential properties, the BRE Guidelines continue to state that they may be applied to any existing non-residential buildings where there may be a reasonable expectation of daylight including; schools, hospitals, hotels and hostels, small workshops, and some offices.

A 2.10 Many Local Planning Authorities consider daylight and sunlight an important factor for determining planning applications. Policies refer to both the protection of daylight and sunlight amenity within existing properties and areas of amenity as well as the creation of proposed dwellings and spaces with high levels of daylight and sunlight amenity.

A 2.11 Although Local Authorities will look to the BRE Guide to understand impacts it is their Planning Policies that will determine whether the changes in light should be a reason for refusal at planning.

A 2.12 It is an inevitable consequence of the built-up urban environment that daylight and sunlight will be more limited in dense urban areas. It is well acknowledged that in such situations there may be many other conflicting and potentially more important planning and urban design matters to consider other than just the provision of ideal levels of daylight and sunlight.

A 2.13 The following sections extract relevant sections from the Guide.

## EFFECTS TO DAYLIGHT

A 2.14 The BRE Guidelines provide two methodologies for daylight impact assessment, namely;

- 1 The Vertical Sky Component (VSC); and
- 2 The No Sky Line (NSL).

### Vertical Sky Component (VSC)

A 2.15 The Vertical Sky Component (VSC) method is described in the Glossary of BRE Guidelines as the:

*"Ratio of that part of illuminance, at a point on a given vertical plane, that is received directly from a CIE standard overcast sky, to illuminance on a horizontal plane due to an unobstructed hemisphere of this sky. Usually the 'given vertical plane' is the outside of a window wall. The VSC does not include reflected light, either from the ground or from other buildings"*

A 2.16 Put simply, the VSC provides an assessment of the amount of skylight falling on a vertical plane

(generally a window) directly from the sky, in the circumstance of an overcast sky (CIE standard).

A 2.17 The national numerical value target "ideal" for VSC is 27%. The BRE Guidelines advise that upon implementation of a development, a window should retain a VSC value of 27% or at least 0.8 of its former value (i.e. no more than a 20% change) as per paragraph 2.2.23 of the Guide.

A 2.18 This form of assessment does not take account of window size, room use, room size, window number or dual aspect rooms. The assessment also assumes that all obstructions to the sky are 100% non-reflective thereby omitting the consideration of reflection and considering only the light coming directly from the sky.

A 2.19 The VSC calculation is undertaken in both the existing and proposed scenarios so as to make a comparison.

A 2.20 The image in Figure 01 depicts a Waldram Diagram which can be used to calculate the VSC. The existing buildings are solidly pictured with the proposed scheme semi-transparent in the foreground.

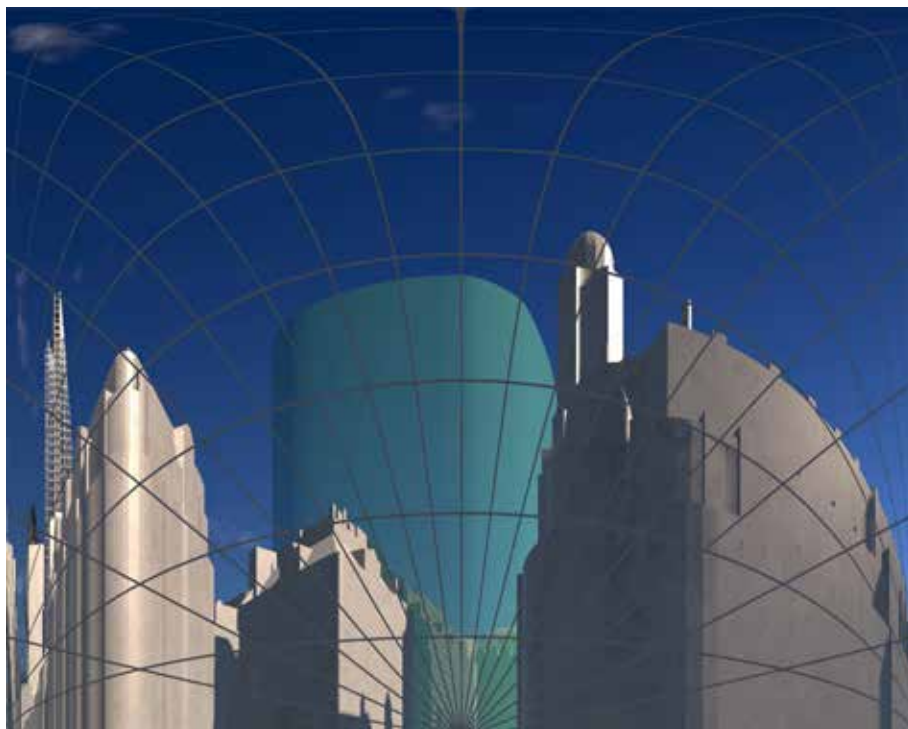


Figure 01: Waldram diagram

No Sky Line (NSL)

- A 2.21 In addition to the VSC, the BRE recommends the NSL method of assessment where internal layouts are known. Whilst the VSC provides information on the quantum of light reaching a window, the NSL seeks to provide information on how well this light is distributed within the room. The NSL is sometimes also referred to as ‘Daylight Distribution’ for this reason.
- A 2.22 The NSL is defined in the Glossary of the Guide as “the outline on the working plane of the area from which no sky can be seen.” and so the NSL is effectively an assessment of sky visibility within a room. As stated already, the calculation is undertaken across the working plane which in accordance with paragraph 2.2.10 “in houses [...] is assumed to be horizontal and 0.85m high”.
- A 2.23 Again, both the existing and proposed positions are calculated and presented alongside any change in position of the NSL. The results can then be presented in table format or else illustrated on a contour plot if required, an example of which can be found in Figure 02 below.

A 2.24 The BRE Guidelines state at paragraph 2.211 that:

*“If, following construction of a new development, the no sky line moves so that the area of the existing room, which does receive direct skylight, is reduced to less than 0.8 times its former value this will be noticeable to the occupants, and more of the room will appear poorly lit. This is also true if the no sky line encroaches on key areas like kitchen sinks and worktops.”*

- A 2.25 In accordance with the strict application of the national numerical values, therefore the change in daylight would be noticeable to the occupants should the NSL experience a loss of NSL greater than 20%.
- A 2.26 It is relevant to note that this assessment takes the number and size of windows serving a room into account as well as the shape of the room but, being concerned only with sky visibility and the distribution of light, does not consider the quantum of light reaching the room.

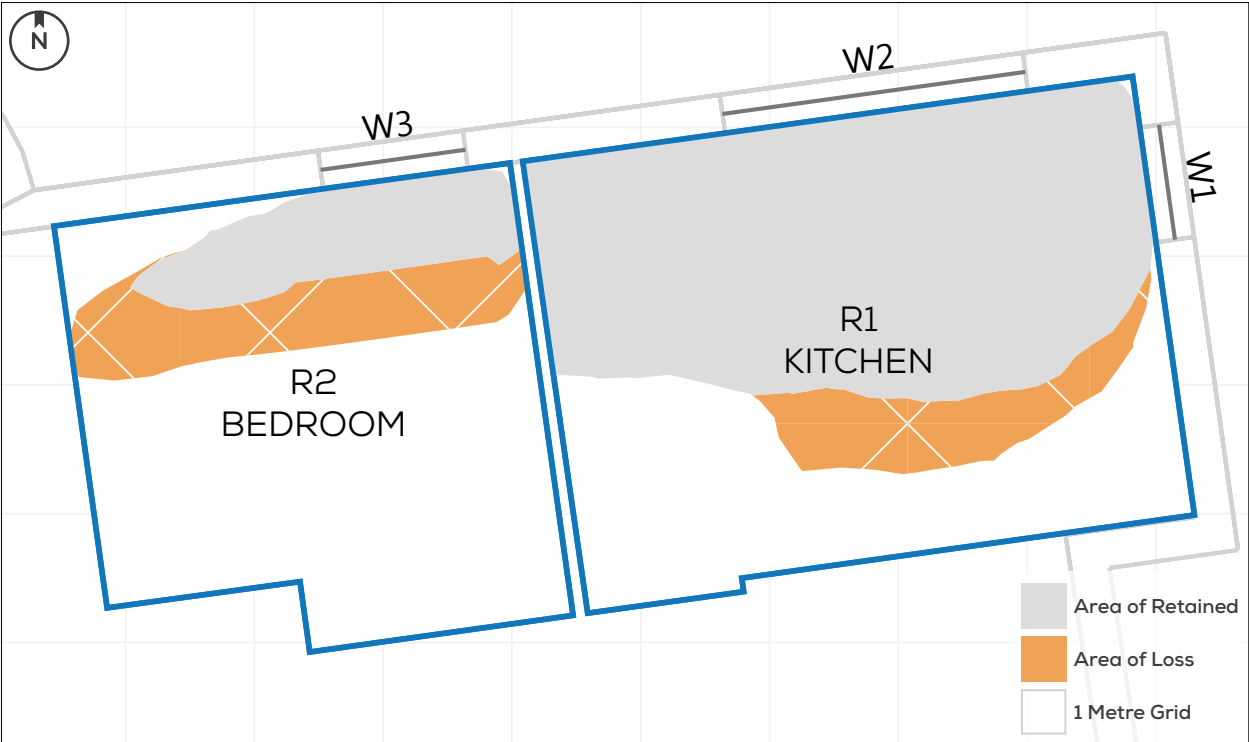


Figure 02: Example NSL diagram

### Decision Chart (Figure 20 of the BRE Guide)

A 2.27 The flowchart in Figure 03 illustrates the steps and criteria outlined within the BRE Guidelines to understand whether the daylighting (VSC and NSL) may be significantly affected.

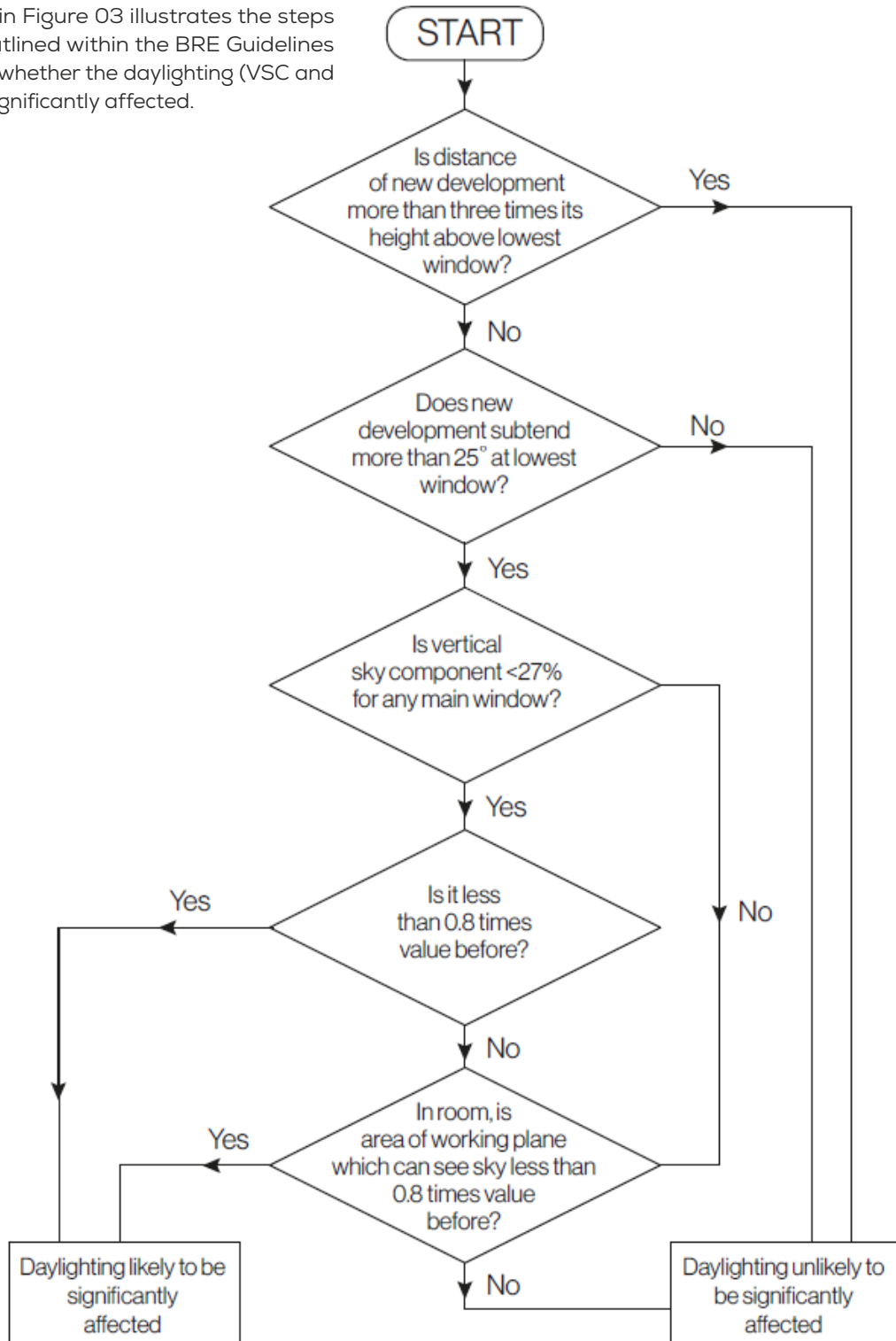


Figure 03: BRE Decision Chart (Figure 20): diffuse daylight in existing buildings. This does not include an assessment of rights to light issues, which a developer may need to consider separately

## EFFECTS TO SUNLIGHT

### Annual Probable Sunlight Hours (APSH)

A 2.28 The BRE Guidance suggests that to understand sunlight impacts to a property, an assessment of Annual Probable Sunlight Hours (APSH) is undertaken. The APSH is defined in the Glossary as:

*“the long-term average of the total number of hours during a year in which direct sunlight reaches the unobstructed ground (when clouds are taken into account)”*

A 2.29 Expanding on the above within the Guidance, long-term averages were used to position 100 spots in the sky, representative of sunlight over the whole year. Correlating to the probability of the sun to shine, the majority of these (70) are at times to the six-months containing summer (from spring equinox to autumn equinox) which 30 are the ‘winter’ months from autumn equinox to spring. The APSH is calculated though calculating how many of these ‘spots’ can be seen from a location (normally a window) both overall and how many of these are during the winter months.

A 2.30 To understand the potential sunlight impacts therefore, all windows facing within 90 degrees of due south and overlooking the development are generally assessed for APSH.

A 2.31 The BRE Guidelines set out the overall methodology and criteria for the assessment of Sunlight in Chapter 3. The BRE Guidelines state in paragraph 3.2.3 and 3.2.5:

*“To assess loss of sunlight to an existing building, it is suggested that all main living rooms of dwellings, and conservatories, should be checked if they have a window facing within 90 degrees of due south. Kitchens and bedrooms are less important, although care should be taken not to block too much sun.”*

*“A point at the centre of the window on the outside face of the window wall may be taken.”*

A 2.32 In interpreting the results, the BRE Guidance states in summary 3.2.13 that:

*“If a living room of an existing dwelling has a main window facing within 90° of due south, and any part of a new development subtends an angle of more than 25° to the horizontal measured from the centre of the window in a vertical section perpendicular to the window, then the sunlighting of the existing dwelling may be adversely affected. This will be the case if the centre of the window:*

- receives less than 25% of annual probable sunlight hours, or less than 5% of annual probable sunlight hours between 21 September and 21 March, and*
- receives less than 0.8 times its former sunlight hours during either period; and*
- has a reduction in sunlight received over the whole year greater than 4% of annual probable sunlight hours.”*

A 2.33 The image in Figure 04 depicts the APSH sun spots overlaid on a Waldram Diagram. The existing buildings are solidly pictured with the proposed scheme semi-transparent in the foreground. The yellow spots indicate summer sun and the blue spots indicate winter sun.



Figure 04: Waldram diagram

## EFFECTS TO OVERSHADOWING

A 2.34 The BRE guidance in respect of overshadowing of amenity spaces is set out in section 3.3.1 of the handbook. Here it states as follows:

*“Sunlight in the spaces between and around buildings has an important impact on the overall appearance and ambiance of a development. It is valuable for a number of reasons, to:*

- *provide attractive sunlit views (all year)*
- *make outdoor activities like sitting out and children’s play more pleasant (mainly warmer months)*
- *encourage plant growth (mainly spring and summer)*
- *dry out the ground, reducing moss and slime (mainly in colder months)*
- *melt frost, ice and snow (in winter)*
- *dry clothes (all year).”*

A 2.35 It must be acknowledged that in urban areas the availability of sunlight on the ground is a factor which is significantly controlled by the existing urban fabric around the site in question and so may have very little to do with the form of the development itself. Likewise, there may be many other urban design, planning and site constraints which determine and run contrary to the best form, siting and location of a proposed development in terms of availability of sun on the ground.

## Sun Hours on Ground & Transient Overshadowing

A 2.36 The Sun Hours on Ground method of overshadowing assessment uses specialist software to determine the sunlight exposure across an area of amenity.

A 2.37 The BRE Guidelines suggest that the Spring Equinox (21 March), being the year’s midpoint, is a suitable date for the assessment. Paragraph 3.3.17 states:

*“It is recommended that 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 sunlight is likely to be noticeable.”*

A 2.38 The Transient Overshadowing study is recommended where large buildings are proposed which may affect a number of gardens or open spaces or where an area is particularly sensitive at certain times of day or year. For the purpose of this assessment, the additional shadow cast is mapped and highlighted at hourly intervals from sunrise to sunset on the following dates:

- 21 March (Spring equinox)
- 21 June (Summer solstice)
- 21 December (Winter solstice)

A 2.39 The BRE guidelines do not provide any suggested criteria for Transient Overshadowing, rather it is a qualitative assessment to aid understanding.

## BRE GUIDELINES: ADDITIONAL DAYLIGHT AND SUNLIGHT TESTS

### Daylight - VSC and APSH to Rooms

- A 2.40 As outlined within the BRE Guidelines (paragraph 2.2.6), the VSC value is calculated for each window; however:

*"If a room has two or more windows of equal size, the mean of their VSCs may be taken".*

- A 2.41 Where a room is served by two or more windows of the same or different sizes, the VSC value to the room can be calculated by applying an average weighting calculation to understand the VSC value to the room. The formula used is as follows;

$$\Sigma(V_n \cdot A_n) / \Sigma A_n$$

Where:

V = window VSC

A = window area

n = the number of windows

- A 2.42 The BRE provide a methodology to calculate APSH in relation to the room and window, paragraph 3.1.12 states:

*"If a room has multiple windows, the amount of sunlight received by each can be added together provided they occur at different times and sunlight hours are not double counted."*

- A 2.43 The above extract of the BRE is in relation to proposed units rather than existing buildings. It does, however, make sense to apply this methodology to existing rooms as well, when room layouts are known as a room served by multiple windows could receive the benefit of sunlight from all windows and not just one.

- A 2.44 GIA calculate the APSH room assessment in the following way:

- 1 The sunlight hours (both winter and annual) are calculated for each window. Instead of simply returning the overall per cent pass rate, i.e. one figure for winter, and one for the whole year, the yes/no result of each of the 100 sun spots is tracked. For this accounting to work, each sun dot needs to be assigned a unique identifier, e.g. from 1 to 100;

- 2 The sets of 100 sun spots are combined for each room using Boolean logic, i.e. conjunctions of yes/no values. The outcome of this step is a set of 100 yes/no values corresponding to the 100 sun spots, but on a per-room basis. Each per-room dot is counted if it is unobstructed for at least one of its windows; and
- 3 The unobstructed sun dots for the room are summed up and expressed as a percentage of the total number of annual and winter spots.

### Balconies/Overhangs

- A 2.45 The BRE recognises that existing architectural features on neighbouring buildings such as balconies and overhangs inherently restrict the quantum of skylight to a window. The BRE Guidelines note on page 11, paragraph 2.1.17 and page 16, paragraph 2.2.13:

*"This is a particular problem if there are large obstructions opposite; with the combined effect of the overhang and the obstruction, it may be impossible to see the sky from inside the room, and hence to receive any direct skylight or sunlight at all."*

*"Existing windows with balconies above them typically receive less daylight. Because the balcony cuts out light from the top part of the sky, even a modest obstruction opposite may result in a large relative impact on the VSC, and on the area receiving direct skylight. One way to demonstrate this would be to carry out an additional calculation of the VSC and the area receiving direct skylight, for both the existing and proposed situations, without the balcony in place."*

- A 2.46 As noted by the BRE Guidelines, where there are existing overhanging features, larger reductions in skylight and sunlight may be unavoidable and alternative criteria can be used. The guidance suggests that in such situations a calculation is carried out that excludes the balcony or the obstruction.

## DAYLIGHT - MIRROR MASSING & ADJOINING DEVELOPMENT LAND

### Alternative target Values for Skylight and Sunlight Access "Mirror Massing"

A 2.47 The BRE Guidelines provide a calculation for the VSC and APSH analysis to quantify an appropriate alternative value based on the context of an environment. This approach is known as the 'mirror image' analysis (see Figure 05).

A 2.48 The BRE notes in paragraph F5:

*"where an existing building has windows that are unusually close to the site boundary and taking more than their fair share of light. Figure F3 shows an example where side windows of an existing building are close to the boundary. To ensure that new development matches the height and proportions of existing buildings, the VSC and APSH targets for these windows could be set to those for a 'mirror-image' building of the same height and size, an equal distance away on the other side of the boundary."*

A 2.49 This analysis is used to understand the levels of Daylight (VSC) and Sunlight (APSH) that would be experienced by an extant neighbouring property if there were a building of the same height and extent opposite.

A 2.50 The mirror image assessment is fairly simplistic and is not, therefore, easily applied to large and complex site footprints which are not all built at equal distances from the site boundary or of the same footprint.

### Adjoining Development Land

A 2.51 The "Adjoining Development Land" analysis provided within the BRE Guidelines is a simple test to ensure that a proposal is a reasonable distance from the boundary so as to "enable future nearby developments to enjoy a similar access to daylight." (2.3.1)

A 2.52 The BRE comments in paragraphs 2.3.3, 2.3.6 and 2.3.7 that:

*"The diffuse daylight coming over the boundary may be quantified in the following way. As a first check, draw a section in a plane perpendicular to*

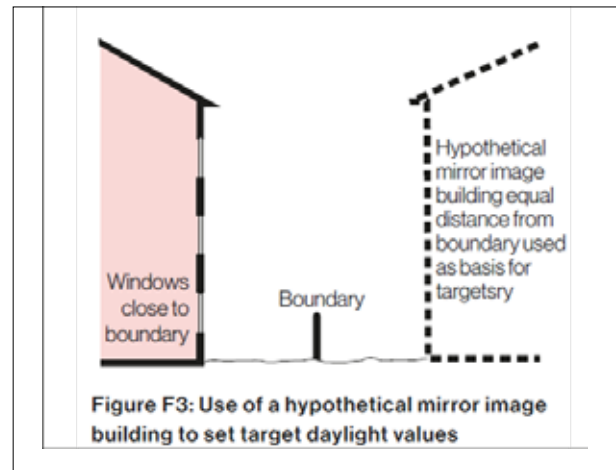


Figure 05: Littlefair, P. (2022). Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice. Hertfordshire: HIS BRE Press p 87  
Figure F3

*the boundary (Figure 21). If a road separates the two sites then the centre line of the road should be taken. Measure the angle to the horizontal subtended at a point 1.6 metres above the boundary by the proposed new buildings. If this angle is less than 43° then there will normally still be the potential for good daylighting on the adjoining development site (but see Sections 2.3.6 and 2.3.7)."*

*"The guidelines above should not be applied too rigidly. A particularly important exception occurs when the two sites are very unequal in size and the proposed new building is larger in scale than the likely future development nearby. This is because the numerical values above are derived by assuming the future development will be exactly the same size as the proposed new building (Figure 22). If the adjoining sites for development are a lot smaller, a better approach is to make a rough prediction of where the nearest window wall of the future development may be; then to carry out the 'new building' analysis in Section 2.1 for this window wall."*

*"The 43° angle should not be used as a form generator, to produce a building which slopes or steps down towards the boundary. Compare Figure 23 with Figure 22 to see how this can result in a higher than anticipated obstruction to daylight. In Figure 23 the proposed building subtends 34° at its mirror image, rather than the maximum of 25° suggested here. In cases of doubt, the best approach is again to carry out a new building analysis for the most likely location of a window wall of a future development."*

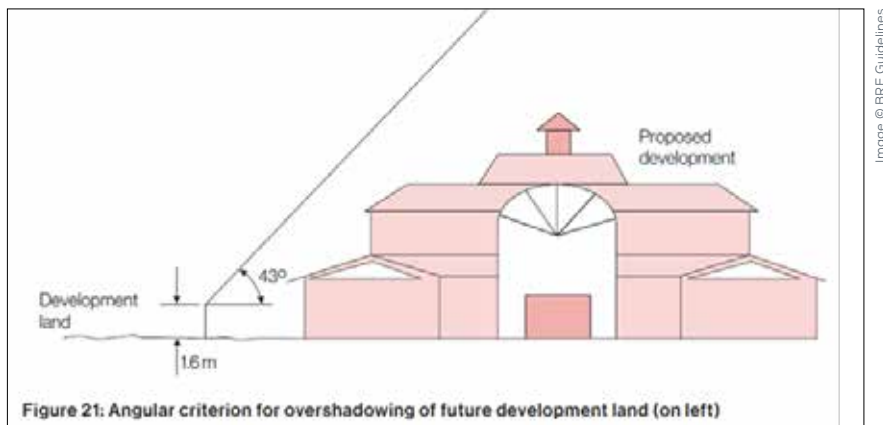


Figure 06: Littlefair, P. (2022). Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice. Hertfordshire: HIS BRE Press p 19 Figure 21

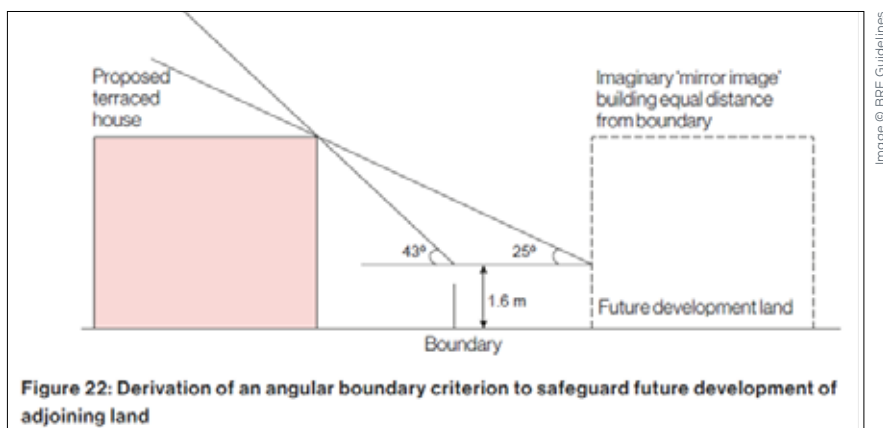


Figure 07: Littlefair, P. (2022). Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice. Hertfordshire: HIS BRE Press p 20 Figure 22

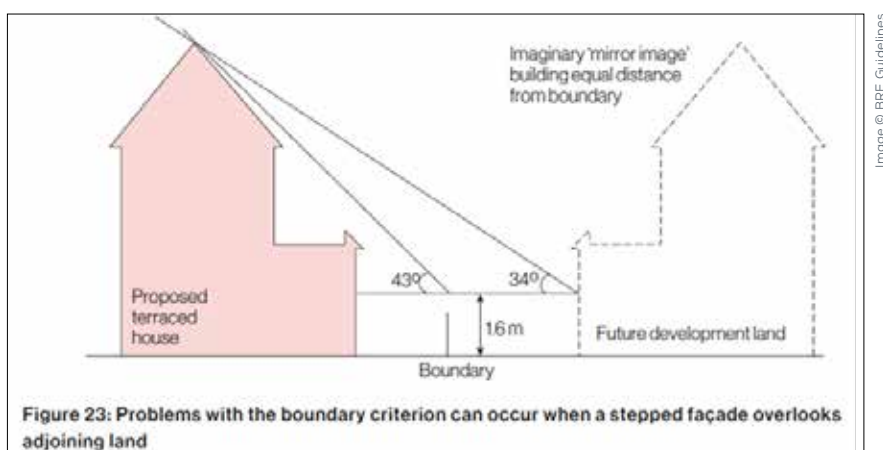


Figure 08: Littlefair, P. (2022). Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice. Hertfordshire: HIS BRE Press p 20 Figure 23

A 2.53 As outlined above, the Adjoining Development Land analysis is predicated on ensuring that a proposal next to future development land is not negatively impacting the ability to develop in consideration of light matters.

PHOTOVOLTAICS

- A 2.54 Paragraph 4.5.2 states that “where a proposed development may result in loss of radiation to existing solar panels (either photovoltaic or solar thermal), an assessment should be carried out.”
- A 2.55 Paragraph 4.5.8 states that “Where the annual probable sunlight hours received by a solar panel with the new development in place is less than 0.90 times the value before, a more detailed calculation of the loss of solar radiation should be undertaken. This is a specialist type of assessment and expert advice should be sought. The assessment should include both direct solar and diffuse sky radiation; over a whole year, around 60% of the radiation received on a horizontal roof comes from the sky. However, reflected radiation from the ground and obstructions need not be included. The modelling should take account of the effects of cloud in reducing direct solar radiation at different times of year, and include a realistic simulation of the way that incoming solar radiation varies from different parts of the sky.”
- A 2.56 Paragraph 4.5.9 states that “if over the whole year the ratio of total solar radiation received with the new development, to the existing value is less than the values given in Table 2, then the loss of radiation is significant.”

Table 2. Recommended minimum ratios of solar radiation received.

| Slope of solar panel in degrees to horizontal | Recommended minimum ratio of radiation received after/before |
|-----------------------------------------------|--------------------------------------------------------------|
| 0-30                                          | 0.90                                                         |
| 30.01-59.99                                   | 0.85                                                         |
| 60-90                                         | 0.80                                                         |

Figure 09: Table 2 from BRE Guidance Section 4, page 36

OTHER AMENITY CONSIDERATIONS

- A 2.58 Daylight and sunlight is one factor among many under the heading of residential amenity considerations for any given development design or planning application; others include:
- View;
  - Privacy;
  - Security;
  - Access;
  - Enclosure;
  - Microclimate;
  - Solar Dazzle; and
  - Solar Convergence.

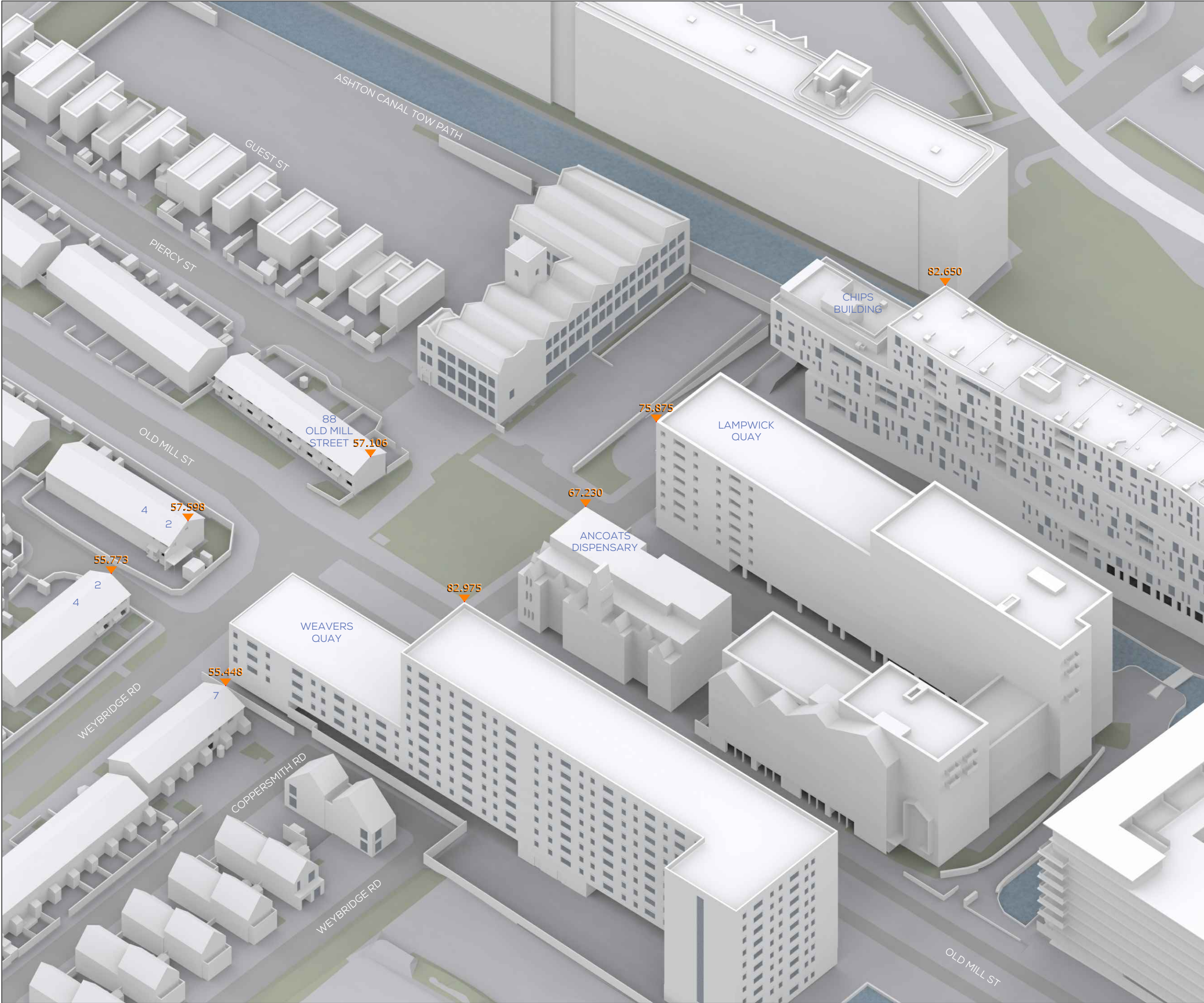
- A 2.57 Finally, paragraph 4.5.10 notes that “numerical values given are purely advisory. Different criteria may be used based on the requirements for solar energy in an area viewed against other site layout constraints. Another important issue is whether the existing solar panels are reasonably sited, at a sensible height and distance from the boundary. A greater loss of solar radiation may be inevitable if panels are mounted close to the ground and near to the site boundary.”

Image © BRE Guidelines

## APPENDIX 02 **DRAWINGS**

APPENDIX 02  
DRAWINGS:

**EXISTING**



SOURCES OF INFORMATION

IR04-20230619-Vertex  
IR06-20230712-Planning Portal  
IR08-20231018-Howells

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MANCHESTER

DRAWING NAME:  
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| DWN BY   | SCALE   | CHK BY | STATUS  | DATE    |
|----------|---------|--------|---------|---------|
| HR       | NTS     | SP     | -       | OCT23   |
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| 0536     | 03      | 01     | 02      | -       |



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M15 4RQ  
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www.gia.uk.com

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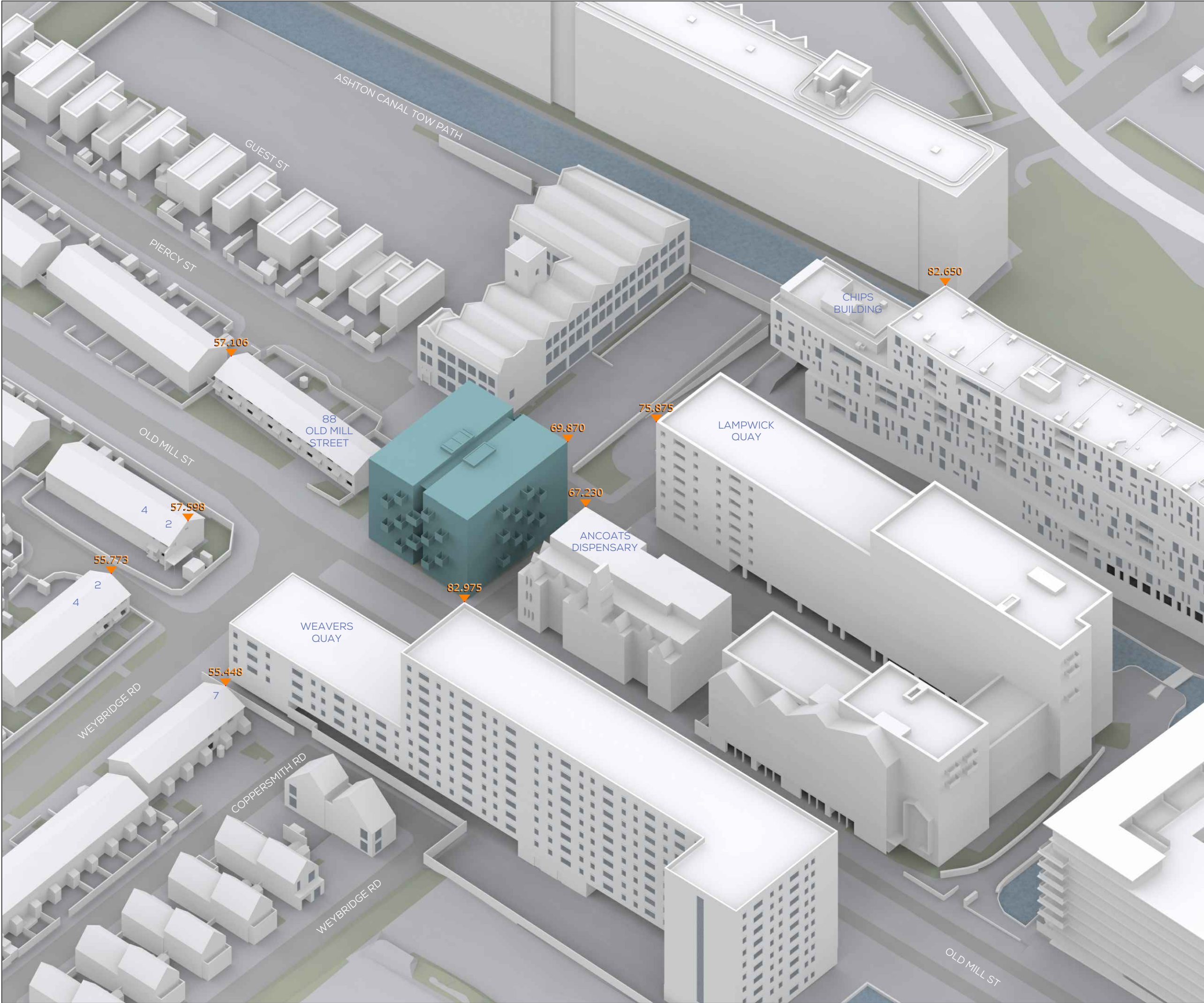
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APPENDIX 02  
DRAWINGS:

**PROPOSED**



SOURCES OF INFORMATION  
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| PROJ No. | REL No. | IS No. | DWG No. | REV No. |
| 0536     | 03      | 02     | 05      | -       |



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| PROJ No. | REL No. | IS No. | DWG No. | REV No. |
| 0536     | 03      | 02     | 06      | -       |



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|----------|---------|--------|---------|---------|
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| PROJ No. | REL No. | IS No. | DWG No. | REV No. |
| 0536     | 03      | 02     | 04      | -       |

APPENDIX 03  
**RESULTS & CONTOURS**

APPENDIX 03  
RESULTS & CONTOURS:

VSC

PROJECT NO: 0536

PROJECT NAME: UPPER KIRBY STREET, MANCHESTER

08/11/2023 10:35:15

VSC ANALYSIS

EXISTING VS. PROPOSED

RELEASE 3 .ISSUE 1

ITERATION NO.: IR08

ARCHITECT: HOWELLS

| FLOOR | ROOM | PROPERTY TYPE | ROOM USE | WINDOW | EXISTING (W) | PROPOSED (W) | LOSS (W) | LOSS % (W) | MEETS CRITERIA (W) |
|-------|------|---------------|----------|--------|--------------|--------------|----------|------------|--------------------|
|-------|------|---------------|----------|--------|--------------|--------------|----------|------------|--------------------|

|                    |    |             |         |        |      |      |     |      |     |
|--------------------|----|-------------|---------|--------|------|------|-----|------|-----|
| 88 OLD MILL STREET |    |             |         |        |      |      |     |      |     |
| F00                | R1 | Residential | Unknown | W1/F00 | 16.1 | 15.4 | 0.7 | 4.3  | YES |
|                    | R2 | Residential | Unknown | W2/F00 | 33.8 | 32.6 | 1.2 | 3.6  | YES |
|                    | R3 | Residential | Unknown | W3/F00 | 26.5 | 21.5 | 5   | 18.9 | YES |
| F01                | R1 | Residential | Unknown | W1/F01 | 28.2 | 28   | 0.2 | 0.7  | YES |
|                    | R2 | Residential | Unknown | W2/F01 | 28.1 | 27.7 | 0.4 | 1.4  | YES |
|                    | R3 | Residential | Unknown | W3/F01 | 21.9 | 18.4 | 3.5 | 16   | YES |
|                    | R4 | Residential | Unknown | W4/F01 | 21.9 | 19.5 | 2.4 | 11   | YES |

|                    |    |             |         |        |      |      |      |      |     |
|--------------------|----|-------------|---------|--------|------|------|------|------|-----|
| ANCOATS DISPENSARY |    |             |         |        |      |      |      |      |     |
| F00                | R1 | Residential | Bedroom | W1/F00 | 19.4 | 16.6 | 2.8  | 14.4 | YES |
|                    |    |             |         | W2/F00 | 34.8 | 9.6  | 25.2 | 72.4 | NO  |
|                    | R2 | Residential | LKD     | W3/F00 | 27.6 | 6.4  | 21.2 | 76.8 | NO  |
|                    |    |             |         | W4/F00 | 27.5 | 7.3  | 20.2 | 73.5 | NO  |
|                    |    |             |         | W5/F00 | 24.8 | 24.5 | 0.3  | 1.2  | YES |
|                    |    |             |         | W6/F00 | 24.5 | 24.3 | 0.2  | 0.8  | YES |
|                    |    |             |         | W7/F00 | 24.3 | 24.1 | 0.2  | 0.8  | YES |
| F01                | R1 | Residential | Bedroom | W1/F01 | 22.6 | 19.9 | 2.7  | 11.9 | YES |
|                    |    |             |         | W2/F01 | 36.2 | 11.6 | 24.6 | 68   | NO  |
|                    | R2 | Residential | Bedroom | W3/F01 | 26.2 | 5.6  | 20.6 | 78.6 | NO  |
|                    |    |             |         | W4/F01 | 26.1 | 6.5  | 19.6 | 75.1 | NO  |
| F02                | R1 | Residential | Bedroom | W1/F02 | 24.4 | 21.8 | 2.6  | 10.7 | YES |
|                    |    |             |         | W2/F02 | 37.3 | 14.3 | 23   | 61.7 | NO  |
|                    | R2 | Residential | LKD     | W3/F02 | 37.4 | 17.1 | 20.3 | 54.3 | NO  |
|                    |    |             |         | W4/F02 | 37.4 | 17.9 | 19.5 | 52.1 | NO  |
|                    |    |             |         | W5/F02 | 28.3 | 28.1 | 0.2  | 0.7  | YES |
|                    |    |             |         | W6/F02 | 28.1 | 27.9 | 0.2  | 0.7  | YES |
| F03                | R1 | Residential | Bedroom | W1/F03 | 26.4 | 24.2 | 2.2  | 8.3  | YES |
|                    |    |             |         | W2/F03 | 37.9 | 18.1 | 19.8 | 52.2 | NO  |
|                    | R2 | Residential | LKD     | W3/F03 | 38.2 | 22.3 | 15.9 | 41.6 | NO  |
|                    |    |             |         | W4/F03 | 31.3 | 31.2 | 0.1  | 0.3  | YES |
|                    |    |             |         | W5/F03 | 31.1 | 30.9 | 0.2  | 0.6  | YES |
| F04                | R1 | Residential | Bedroom | W1/F04 | 37.8 | 25.2 | 12.6 | 33.3 | NO  |
|                    | R2 | Residential | Bedroom | W2/F04 | 30.6 | 21.7 | 8.9  | 29.1 | NO  |
|                    | R3 | Residential | Bedroom | W3/F04 | 32   | 22.8 | 9.2  | 28.8 | NO  |
|                    |    |             |         | W4/F04 | 24.8 | 24.8 | 0    | 0    | YES |
|                    |    |             |         | W5/F04 | 27.3 | 27.3 | 0    | 0    | YES |
| F05                | R1 | Residential | Bedroom | W1/F05 | 38.6 | 31.6 | 7    | 18.1 | YES |
|                    | R2 | Residential | Bedroom | W2/F05 | 38.6 | 31.9 | 6.7  | 17.4 | YES |

|             |    |             |         |        |      |      |     |      |     |
|-------------|----|-------------|---------|--------|------|------|-----|------|-----|
| 2 TAVERY CL |    |             |         |        |      |      |     |      |     |
| F00         | R1 | Residential | Unknown | W1/F00 | 18.2 | 16.4 | 1.8 | 9.9  | YES |
|             |    |             |         | W2/F00 | 14.7 | 13   | 1.7 | 11.6 | YES |
|             | R2 | Residential | Kitchen | W3/F00 | 28.1 | 28.1 | 0   | 0    | YES |
|             |    |             |         | W4/F00 | 3    | 2.7  | 0.3 | 10   | YES |
| F01         | R1 | Residential | Bedroom | W1/F01 | 28.2 | 26.5 | 1.7 | 6    | YES |
|             | R2 | Residential | Bedroom | W2/F01 | 28   | 26.6 | 1.4 | 5    | YES |
|             | R3 | Residential | Bedroom | W3/F01 | 32   | 32   | 0   | 0    | YES |
|             |    |             |         | W4/F01 | 33.1 | 31.9 | 1.2 | 3.6  | YES |
| F02         | R1 | Residential | Unknown | W1/F02 | 33.9 | 32.7 | 1.2 | 3.5  | YES |

|             |    |             |         |        |      |      |     |     |     |
|-------------|----|-------------|---------|--------|------|------|-----|-----|-----|
| 4 TAVERY CL |    |             |         |        |      |      |     |     |     |
| F00         | R1 | Residential | Unknown | W1/F00 | 32.7 | 31.2 | 1.5 | 4.6 | YES |
|             |    |             |         | W2/F00 | 32.7 | 31.3 | 1.4 | 4.3 | YES |

| FLOOR | ROOM | PROPERTY TYPE | ROOM USE | WINDOW | EXISTING (W) | PROPOSED (W) | LOSS (W) | LOSS % (W) | MEETS CRITERIA (W) |
|-------|------|---------------|----------|--------|--------------|--------------|----------|------------|--------------------|
| F01   | R1   | Residential   | Unknown  | W1/F01 | 31.6         | 30.5         | 11       | 3.5        | YES                |

|                  |    |             |         |        |      |      |   |   |     |
|------------------|----|-------------|---------|--------|------|------|---|---|-----|
| 7 WEYBRIDGE ROAD |    |             |         |        |      |      |   |   |     |
| F00              | R1 | Residential | Unknown | W1/F00 | 8.3  | 8.3  | 0 | 0 | YES |
| F01              | R1 | Residential | Unknown | W1/F01 | 22   | 22   | 0 | 0 | YES |
|                  | R2 | Residential | Unknown | W2/F01 | 10.6 | 10.6 | 0 | 0 | YES |

|                |    |             |             |        |      |      |     |     |     |
|----------------|----|-------------|-------------|--------|------|------|-----|-----|-----|
| 2 WEYBRIDGE RD |    |             |             |        |      |      |     |     |     |
| F00            | R1 | Residential | Unknown     | W1/F00 | 29.5 | 28.5 | 1   | 3.4 | YES |
|                | R2 | Residential | Living Room | W2/F00 | 29.8 | 29.2 | 0.6 | 2   | YES |
| F01            | R1 | Residential | Unknown     | W1/F01 | 32.7 | 31.9 | 0.8 | 2.4 | YES |
|                | R2 | Residential | Bedroom     | W2/F01 | 25.7 | 25.2 | 0.5 | 1.9 | YES |
|                | R3 | Residential | Unknown     | W3/F01 | 25.7 | 25.2 | 0.5 | 1.9 | YES |

|                |    |             |             |        |      |      |     |     |     |
|----------------|----|-------------|-------------|--------|------|------|-----|-----|-----|
| 4 WEYBRIDGE RD |    |             |             |        |      |      |     |     |     |
| F00            | R1 | Residential | Living Room | W1/F00 | 29   | 28.5 | 0.5 | 1.7 | YES |
| F01            | R1 | Residential | Bedroom     | W1/F01 | 25.7 | 25.3 | 0.4 | 1.6 | YES |
|                | R2 | Residential | Unknown     | W2/F01 | 25.7 | 25.4 | 0.3 | 1.2 | YES |

|               |    |             |         |        |      |      |     |      |     |
|---------------|----|-------------|---------|--------|------|------|-----|------|-----|
| LAMPWICK QUAY |    |             |         |        |      |      |     |      |     |
| F01           | R1 | Residential | Bedroom | W1/F01 | 26.9 | 21   | 5.9 | 21.9 | NO  |
|               | R2 | Residential | LKD     | W2/F01 | 25.7 | 21.1 | 4.6 | 17.9 | YES |
|               | R3 | Residential | Bedroom | W3/F01 | 23.8 | 20.4 | 3.4 | 14.3 | YES |
|               | R4 | Residential | Bedroom | W4/F01 | 22.4 | 20.4 | 2   | 8.9  | YES |
|               | R5 | Residential | LKD     | W5/F01 | 22.3 | 20.8 | 1.5 | 6.7  | YES |
|               | R6 | Residential | Bedroom | W6/F01 | 21.4 | 20.4 | 1   | 4.7  | YES |
| F02           | R1 | Residential | Bedroom | W1/F02 | 29.9 | 25   | 4.9 | 16.4 | YES |
|               | R2 | Residential | LKD     | W2/F02 | 29   | 25.3 | 3.7 | 12.8 | YES |
|               | R3 | Residential | Bedroom | W3/F02 | 27.4 | 24.6 | 2.8 | 10.2 | YES |
|               | R4 | Residential | Bedroom | W4/F02 | 26.3 | 24.6 | 1.7 | 6.5  | YES |
|               | R5 | Residential | LKD     | W5/F02 | 26.3 | 25   | 1.3 | 4.9  | YES |
|               | R6 | Residential | Bedroom | W6/F02 | 26.3 | 25.5 | 0.8 | 3    | YES |
| F03           | R1 | Residential | Bedroom | W1/F03 | 32.7 | 29.1 | 3.6 | 11   | YES |
|               | R2 | Residential | LKD     | W2/F03 | 32.3 | 29.5 | 2.8 | 8.7  | YES |
|               | R3 | Residential | Bedroom | W3/F03 | 30.9 | 28.9 | 2   | 6.5  | YES |
|               | R4 | Residential | Bedroom | W4/F03 | 30.1 | 28.9 | 1.2 | 4    | YES |
|               | R5 | Residential | LKD     | W5/F03 | 30.3 | 29.4 | 0.9 | 3    | YES |
|               | R6 | Residential | Bedroom | W6/F03 | 29.4 | 28.8 | 0.6 | 2    | YES |
| F04           | R1 | Residential | Bedroom | W1/F04 | 34.3 | 32.1 | 2.2 | 6.4  | YES |
|               | R2 | Residential | LKD     | W2/F04 | 34.3 | 32.6 | 1.7 | 5    | YES |
|               | R3 | Residential | Bedroom | W3/F04 | 33.2 | 31.9 | 1.3 | 3.9  | YES |
|               | R4 | Residential | Bedroom | W4/F04 | 32.6 | 31.8 | 0.8 | 2.5  | YES |
|               | R5 | Residential | LKD     | W5/F04 | 32.9 | 32.3 | 0.6 | 1.8  | YES |
|               | R6 | Residential | Bedroom | W6/F04 | 32   | 31.6 | 0.4 | 1.3  | YES |
| F05           | R1 | Residential | Bedroom | W1/F05 | 35.5 | 34.6 | 0.9 | 2.5  | YES |
|               | R2 | Residential | LKD     | W2/F05 | 35.9 | 35.2 | 0.7 | 1.9  | YES |
|               | R3 | Residential | Bedroom | W3/F05 | 35.1 | 34.6 | 0.5 | 1.4  | YES |
|               | R4 | Residential | Bedroom | W4/F05 | 34.7 | 34.4 | 0.3 | 0.9  | YES |
|               | R5 | Residential | LKD     | W5/F05 | 35   | 34.7 | 0.3 | 0.9  | YES |
|               | R6 | Residential | Bedroom | W6/F05 | 34.1 | 33.8 | 0.3 | 0.9  | YES |
| F06           | R1 | Residential | Bedroom | W1/F06 | 36.1 | 36.1 | 0   | 0    | YES |
|               | R2 | Residential | LKD     | W2/F06 | 36.5 | 36.5 | 0   | 0    | YES |
|               | R3 | Residential | Bedroom | W3/F06 | 35.8 | 35.8 | 0   | 0    | YES |
|               | R4 | Residential | Bedroom | W4/F06 | 35.5 | 35.5 | 0   | 0    | YES |
|               | R5 | Residential | LKD     | W5/F06 | 35.9 | 35.9 | 0   | 0    | YES |

| FLOOR | ROOM | PROPERTY TYPE | ROOM USE | WINDOW | EXISTING (W) | PROPOSED (W) | LOSS (W) | LOSS % (W) | MEETS CRITERIA (W) |
|-------|------|---------------|----------|--------|--------------|--------------|----------|------------|--------------------|
| F07   | R6   | Residential   | Bedroom  | W6/F06 | 35.1         | 35.1         | 0        | 0          | YES                |
|       | R1   | Residential   | Bedroom  | W1/F07 | 36.7         | 36.7         | 0        | 0          | YES                |
|       | R2   | Residential   | LKD      | W2/F07 | 37           | 37           | 0        | 0          | YES                |
|       | R3   | Residential   | Bedroom  | W3/F07 | 36.4         | 36.4         | 0        | 0          | YES                |
|       | R4   | Residential   | Bedroom  | W4/F07 | 36.3         | 36.3         | 0        | 0          | YES                |
|       | R5   | Residential   | LKD      | W5/F07 | 36.7         | 36.7         | 0        | 0          | YES                |
|       | R6   | Residential   | Bedroom  | W6/F07 | 36           | 36           | 0        | 0          | YES                |

| WEAVERS QUAY |     |             |         |         |      |      |     |      |     |
|--------------|-----|-------------|---------|---------|------|------|-----|------|-----|
| F01          | R1  | Residential | LKD     | W1/F01  | 30.6 | 29.3 | 1.3 | 4.2  | YES |
|              |     |             |         | W2/F01  | 31.2 | 30   | 1.2 | 3.8  | YES |
|              | R2  | Residential | Bedroom | W3/F01  | 30.9 | 29.3 | 1.6 | 5.2  | YES |
|              |     |             |         | W4/F01  | 31.4 | 30   | 1.4 | 4.5  | YES |
|              | R3  | Residential | Bedroom | W5/F01  | 31.2 | 29.4 | 1.8 | 5.8  | YES |
|              |     |             |         | W6/F01  | 31.7 | 30.1 | 1.6 | 5    | YES |
|              | R4  | Residential | LKD     | W7/F01  | 31.5 | 29.5 | 2   | 6.3  | YES |
|              |     |             |         | W8/F01  | 32.1 | 30.2 | 1.9 | 5.9  | YES |
|              | R5  | Residential | Bedroom | W9/F01  | 31.9 | 29.5 | 2.4 | 7.5  | YES |
|              |     |             |         | W10/F01 | 32.4 | 30.2 | 2.2 | 6.8  | YES |
|              | R6  | Residential | Bedroom | W11/F01 | 32.3 | 29.6 | 2.7 | 8.4  | YES |
|              |     |             |         | W12/F01 | 32.7 | 30.3 | 2.4 | 7.3  | YES |
|              | R7  | Residential | LKD     | W13/F01 | 32.6 | 29.6 | 3   | 9.2  | YES |
|              |     |             |         | W14/F01 | 33   | 30.2 | 2.8 | 8.5  | YES |
|              | R8  | Residential | Bedroom | W15/F01 | 32.9 | 29.4 | 3.5 | 10.6 | YES |
|              |     |             |         | W16/F01 | 33.3 | 30.1 | 3.2 | 9.6  | YES |
|              | R9  | Residential | Bedroom | W17/F01 | 33   | 29.2 | 3.8 | 11.5 | YES |
|              |     |             |         | W18/F01 | 33.4 | 29.9 | 3.5 | 10.5 | YES |
|              | R10 | Residential | LKD     | W19/F01 | 33.3 | 29.1 | 4.2 | 12.6 | YES |
|              |     |             |         | W20/F01 | 33.6 | 29.7 | 3.9 | 11.6 | YES |
|              | R11 | Residential | Bedroom | W21/F01 | 33.6 | 28.9 | 4.7 | 14   | YES |
|              |     |             |         | W22/F01 | 34   | 29.6 | 4.4 | 12.9 | YES |
|              | R12 | Residential | LKD     | W23/F01 | 33.8 | 29.2 | 4.6 | 13.6 | YES |
|              |     |             |         | W24/F01 | 34.1 | 29.9 | 4.2 | 12.3 | YES |
|              | R13 | Residential | Bedroom | W25/F01 | 33.9 | 29.6 | 4.3 | 12.7 | YES |
|              |     |             |         | W26/F01 | 34.3 | 30.3 | 4   | 11.7 | YES |
| F02          | R1  | Residential | LKD     | W1/F02  | 32.4 | 31.4 | 1   | 3.1  | YES |
|              |     |             |         | W2/F02  | 32.8 | 32   | 0.8 | 2.4  | YES |
|              | R2  | Residential | Bedroom | W3/F02  | 32.5 | 31.4 | 1.1 | 3.4  | YES |
|              |     |             |         | W4/F02  | 33   | 32   | 1   | 3    | YES |
|              | R3  | Residential | Bedroom | W5/F02  | 32.8 | 31.5 | 1.3 | 4    | YES |
|              |     |             |         | W6/F02  | 33.2 | 32.1 | 1.1 | 3.3  | YES |
|              | R4  | Residential | LKD     | W7/F02  | 32.9 | 31.4 | 1.5 | 4.6  | YES |
|              |     |             |         | W8/F02  | 32.8 | 31.5 | 1.3 | 4    | YES |
|              | R5  | Residential | Bedroom | W9/F02  | 33.3 | 31.6 | 1.7 | 5.1  | YES |
|              |     |             |         | W10/F02 | 33.7 | 32.2 | 1.5 | 4.5  | YES |
|              | R6  | Residential | Bedroom | W11/F02 | 33.5 | 31.6 | 1.9 | 5.7  | YES |
|              |     |             |         | W12/F02 | 33.9 | 32.2 | 1.7 | 5    | YES |
|              | R7  | Residential | LKD     | W13/F02 | 33.8 | 31.6 | 2.2 | 6.5  | YES |
|              |     |             |         | W14/F02 | 34.1 | 32.1 | 2   | 5.9  | YES |
|              | R8  | Residential | Bedroom | W15/F02 | 34   | 31.4 | 2.6 | 7.6  | YES |
|              |     |             |         | W16/F02 | 34.3 | 32.1 | 2.2 | 6.4  | YES |
|              | R9  | Residential | Bedroom | W17/F02 | 34.1 | 31.4 | 2.7 | 7.9  | YES |
|              |     |             |         | W18/F02 | 34.4 | 32   | 2.4 | 7    | YES |
|              | R10 | Residential | LKD     | W19/F02 | 34.3 | 31.2 | 3.1 | 9    | YES |
|              |     |             |         | W20/F02 | 34.6 | 31.8 | 2.8 | 8.1  | YES |

| FLOOR | ROOM | PROPERTY TYPE | ROOM USE | WINDOW  | EXISTING (W) | PROPOSED (W) | LOSS (W) | LOSS % (W) | MEETS CRITERIA (W) |
|-------|------|---------------|----------|---------|--------------|--------------|----------|------------|--------------------|
|       | R11  | Residential   | Bedroom  | W21/F02 | 34.6         | 31.1         | 3.5      | 10.1       | YES                |
|       |      |               |          | W22/F02 | 34.9         | 31.8         | 3.1      | 8.9        | YES                |
|       | R12  | Residential   | LKD      | W23/F02 | 34.7         | 31.3         | 3.4      | 9.8        | YES                |
|       |      |               |          | W24/F02 | 35           | 32           | 3        | 8.6        | YES                |
|       | R13  | Residential   | Bedroom  | W25/F02 | 34.9         | 31.7         | 3.2      | 9.2        | YES                |
|       |      |               |          | W26/F02 | 35.1         | 32.3         | 2.8      | 8          | YES                |
| F03   | R1   | Residential   | LKD      | W1/F03  | 33.9         | 33.3         | 0.6      | 1.8        | YES                |
|       |      |               |          | W2/F03  | 34.3         | 33.8         | 0.5      | 1.5        | YES                |
|       | R2   | Residential   | Bedroom  | W3/F03  | 34           | 33.3         | 0.7      | 2.1        | YES                |
|       |      |               |          | W4/F03  | 34.4         | 33.9         | 0.5      | 1.5        | YES                |
|       | R3   | Residential   | Bedroom  | W5/F03  | 34.1         | 33.4         | 0.7      | 2.1        | YES                |
|       |      |               |          | W6/F03  | 34.5         | 33.9         | 0.6      | 1.7        | YES                |
|       | R4   | Residential   | LKD      | W7/F03  | 34.1         | 33.2         | 0.9      | 2.6        | YES                |
|       |      |               |          | W8/F03  | 34           | 33.2         | 0.8      | 2.4        | YES                |
|       | R5   | Residential   | Bedroom  | W9/F03  | 34.5         | 33.4         | 1.1      | 3.2        | YES                |
|       |      |               |          | W10/F03 | 34.8         | 34           | 0.8      | 2.3        | YES                |
|       | R6   | Residential   | Bedroom  | W11/F03 | 34.6         | 33.5         | 1.1      | 3.2        | YES                |
|       |      |               |          | W12/F03 | 35           | 34           | 1        | 2.9        | YES                |
|       | R7   | Residential   | LKD      | W13/F03 | 34.8         | 33.5         | 1.3      | 3.7        | YES                |
|       |      |               |          | W14/F03 | 35.1         | 34           | 1.1      | 3.1        | YES                |
|       | R8   | Residential   | Bedroom  | W15/F03 | 35           | 33.4         | 1.6      | 4.6        | YES                |
|       |      |               |          | W16/F03 | 35.3         | 34           | 1.3      | 3.7        | YES                |
|       | R9   | Residential   | Bedroom  | W17/F03 | 35.1         | 33.4         | 1.7      | 4.8        | YES                |
|       |      |               |          | W18/F03 | 35.4         | 34           | 1.4      | 4          | YES                |
|       | R10  | Residential   | LKD      | W19/F03 | 35.2         | 33.3         | 1.9      | 5.4        | YES                |
|       |      |               |          | W20/F03 | 35.5         | 33.9         | 1.6      | 4.5        | YES                |
|       | R11  | Residential   | Bedroom  | W21/F03 | 35.5         | 33.3         | 2.2      | 6.2        | YES                |
|       |      |               |          | W22/F03 | 35.7         | 33.9         | 1.8      | 5          | YES                |
|       | R12  | Residential   | LKD      | W23/F03 | 35.6         | 33.4         | 2.2      | 6.2        | YES                |
|       |      |               |          | W24/F03 | 35.8         | 34.1         | 1.7      | 4.7        | YES                |
|       | R13  | Residential   | Bedroom  | W25/F03 | 35.7         | 33.7         | 2        | 5.6        | YES                |
|       |      |               |          | W26/F03 | 35.9         | 34.3         | 1.6      | 4.5        | YES                |
| F04   | R1   | Residential   | LKD      | W1/F04  | 35.1         | 34.9         | 0.2      | 0.6        | YES                |
|       |      |               |          | W2/F04  | 35.5         | 35.3         | 0.2      | 0.6        | YES                |
|       | R2   | Residential   | Bedroom  | W3/F04  | 35.2         | 35           | 0.2      | 0.6        | YES                |
|       |      |               |          | W4/F04  | 35.6         | 35.4         | 0.2      | 0.6        | YES                |
| F05   | R1   | Residential   | LKD      | W1/F05  | 36.2         | 36.1         | 0.1      | 0.3        | YES                |
|       |      |               |          | W2/F05  | 36.4         | 36.4         | 0        | 0          | YES                |
|       | R2   | Residential   | Bedroom  | W3/F05  | 36.2         | 36.2         | 0        | 0          | YES                |
|       |      |               |          | W4/F05  | 36.5         | 36.5         | 0        | 0          | YES                |
| F06   | R1   | Residential   | LKD      | W1/F06  | 37.1         | 37.1         | 0        | 0          | YES                |
|       |      |               |          | W2/F06  | 37.4         | 37.4         | 0        | 0          | YES                |
|       | R2   | Residential   | Bedroom  | W3/F06  | 37.2         | 37.2         | 0        | 0          | YES                |
|       |      |               |          | W4/F06  | 37.4         | 37.4         | 0        | 0          | YES                |
| F07   | R1   | Residential   | LKD      | W1/F07  | 37.9         | 37.9         | 0        | 0          | YES                |
|       |      |               |          | W2/F07  | 38.1         | 38.1         | 0        | 0          | YES                |
|       | R2   | Residential   | Bedroom  | W3/F07  | 37.9         | 37.9         | 0        | 0          | YES                |
|       |      |               |          | W4/F07  | 38.2         | 38.2         | 0        | 0          | YES                |
| F08   | R1   | Residential   | LKD      | W1/F08  | 38.6         | 38.6         | 0        | 0          | YES                |
|       |      |               |          | W2/F08  | 38.8         | 38.8         | 0        | 0          | YES                |
|       | R2   | Residential   | Bedroom  | W3/F08  | 38.6         | 38.6         | 0        | 0          | YES                |
|       |      |               |          | W4/F08  | 38.8         | 38.8         | 0        | 0          | YES                |
| F09   | R1   | Residential   | LKD      | W1/F09  | 39.2         | 39.2         | 0        | 0          | YES                |
|       |      |               |          | W2/F09  | 39.3         | 39.3         | 0        | 0          | YES                |
|       | R2   | Residential   | Bedroom  | W3/F09  | 39.2         | 39.2         | 0        | 0          | YES                |

| FLOOR | ROOM | PROPERTY TYPE | ROOM USE | WINDOW | EXISTING (W) | PROPOSED (W) | LOSS (W) | LOSS % (W) | MEETS CRITERIA (W) |
|-------|------|---------------|----------|--------|--------------|--------------|----------|------------|--------------------|
|       |      |               |          | W4/F09 | 39.3         | 39.3         | 0        | 0          | YES                |

|       |    |             |         |         |      |      |     |      |     |
|-------|----|-------------|---------|---------|------|------|-----|------|-----|
| CHIPS |    |             |         |         |      |      |     |      |     |
| F01   | R1 | Residential | LKD     | W1/F01  | 25   | 23.5 | 1.5 | 6    | YES |
|       |    |             |         | W2/F01  | 8.9  | 7.8  | 1.1 | 12.4 | YES |
|       |    |             |         | W3/F01  | 8.9  | 7.7  | 1.2 | 13.5 | YES |
|       | R2 | Residential | Bedroom | W4/F01  | 21.7 | 20.7 | 1   | 4.6  | YES |
|       | R3 | Residential | LKD     | W5/F01  | 20.8 | 20.1 | 0.7 | 3.4  | YES |
|       |    |             |         | W6/F01  | 20.2 | 19.7 | 0.5 | 2.5  | YES |
| F02   | R1 | Residential | Unknown | W1/F02  | 27.5 | 26.4 | 1.1 | 4    | YES |
|       |    |             |         | W2/F02  | 26.6 | 25.4 | 1.2 | 4.5  | YES |
|       | R2 | Residential | Unknown | W3/F02  | 7.9  | 7    | 0.9 | 11.4 | YES |
|       |    |             |         | W4/F02  | 9.6  | 8.7  | 0.9 | 9.4  | YES |
|       | R3 | Residential | Unknown | W5/F02  | 24.5 | 23.7 | 0.8 | 3.3  | YES |
|       |    |             |         | W6/F02  | 23.7 | 23   | 0.7 | 3    | YES |
|       | R4 | Residential | Kitchen | W7/F02  | 23.2 | 22.6 | 0.6 | 2.6  | YES |
|       |    |             |         | W8/F02  | 22.7 | 22.3 | 0.4 | 1.8  | YES |
| F03   | R1 | Residential | Kitchen | W1/F03  | 33.4 | 32.6 | 0.8 | 2.4  | YES |
|       |    |             |         | W13/F03 | 33.9 | 33.7 | 0.2 | 0.6  | YES |
|       | R2 | Residential | Kitchen | W2/F03  | 32.7 | 31.9 | 0.8 | 2.4  | YES |
|       | R3 | Residential | Kitchen | W3/F03  | 32   | 31.2 | 0.8 | 2.5  | YES |
|       |    |             |         | W4/F03  | 31.7 | 31   | 0.7 | 2.2  | YES |
|       |    |             |         | W5/F03  | 30.7 | 30   | 0.7 | 2.3  | YES |
|       |    |             |         | W6/F03  | 30.1 | 29.4 | 0.7 | 2.3  | YES |
|       | R4 | Residential | Kitchen | W7/F03  | 29.4 | 28.8 | 0.6 | 2    | YES |
|       |    |             |         | W8/F03  | 28.6 | 28   | 0.6 | 2.1  | YES |
|       | R5 | Residential | Kitchen | W9/F03  | 27.9 | 27.5 | 0.4 | 1.4  | YES |
|       |    |             |         | W10/F03 | 27.4 | 27   | 0.4 | 1.5  | YES |
|       | R6 | Residential | Kitchen | W11/F03 | 26.8 | 26.5 | 0.3 | 1.1  | YES |
|       |    |             |         | W12/F03 | 9.6  | 9.6  | 0   | 0    | YES |
| F04   | R1 | Residential | Unknown | W1/F04  | 35.2 | 34.8 | 0.4 | 1.1  | YES |
|       |    |             |         | W2/F04  | 35.3 | 34.9 | 0.4 | 1.1  | YES |
|       |    |             |         | W12/F04 | 35.4 | 35.3 | 0.1 | 0.3  | YES |
|       | R2 | Residential | Unknown | W3/F04  | 34.5 | 34.1 | 0.4 | 1.2  | YES |
|       | R3 | Residential | Unknown | W4/F04  | 34.2 | 33.9 | 0.3 | 0.9  | YES |
|       |    |             |         | W5/F04  | 33.5 | 33.1 | 0.4 | 1.2  | YES |
|       |    |             |         | W6/F04  | 32.8 | 32.4 | 0.4 | 1.2  | YES |
|       | R4 | Residential | Unknown | W7/F04  | 31.6 | 31.3 | 0.3 | 0.9  | YES |
|       | R5 | Residential | Kitchen | W8/F04  | 30.8 | 30.6 | 0.2 | 0.6  | YES |
|       |    |             |         | W9/F04  | 30.3 | 30.2 | 0.1 | 0.3  | YES |
|       | R6 | Residential | Kitchen | W10/F04 | 29.9 | 29.8 | 0.1 | 0.3  | YES |
|       |    |             |         | W11/F04 | 12.9 | 12.9 | 0   | 0    | YES |
| F05   | R1 | Residential | Unknown | W1/F05  | 36.6 | 36.6 | 0   | 0    | YES |
|       |    |             |         | W11/F05 | 36.5 | 36.5 | 0   | 0    | YES |
|       |    |             |         | W12/F05 | 36.5 | 36.5 | 0   | 0    | YES |
|       | R2 | Residential | Unknown | W2/F05  | 36.2 | 36.2 | 0   | 0    | YES |
|       | R3 | Residential | Unknown | W3/F05  | 35.7 | 35.6 | 0.1 | 0.3  | YES |
|       |    |             |         | W4/F05  | 35.6 | 35.6 | 0   | 0    | YES |
|       |    |             |         | W5/F05  | 35.1 | 35   | 0.1 | 0.3  | YES |
|       |    |             |         | W6/F05  | 34.8 | 34.8 | 0   | 0    | YES |
|       | R4 | Residential | Unknown | W7/F05  | 21.2 | 21.2 | 0   | 0    | YES |
|       | R5 | Residential | Kitchen | W8/F05  | 21.4 | 21.4 | 0   | 0    | YES |
|       | R6 | Residential | Kitchen | W9/F05  | 33   | 33   | 0   | 0    | YES |
|       |    |             |         | W10/F05 | 32.7 | 32.7 | 0   | 0    | YES |

APPENDIX 03  
RESULTS & CONTOURS:

NSL

| FLOOR | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA (SQM) | EXISTING % | PROPOSED % | LOSS (SQM) | LOSS % | MEETS CRITERIA | WINDOWS ATTACHED TO THE ROOM |
|-------|------|---------------|----------|-----------------|------------|------------|------------|--------|----------------|------------------------------|
|-------|------|---------------|----------|-----------------|------------|------------|------------|--------|----------------|------------------------------|

|                    |    |             |         |      |      |      |     |     |     |        |
|--------------------|----|-------------|---------|------|------|------|-----|-----|-----|--------|
| 88 OLD MILL STREET |    |             |         |      |      |      |     |     |     |        |
| F00                | R1 | Residential | Unknown | 7.3  | 0    | 0    | 0   | 0   | YES | W1/F00 |
|                    | R2 | Residential | Unknown | 10   | 99.4 | 98.3 | 0.1 | 11  | YES | W2/F00 |
|                    | R3 | Residential | Unknown | 17.7 | 83.9 | 60.4 | 4.2 | 28  | NO  | W3/F00 |
| F01                | R1 | Residential | Unknown | 7.3  | 95.8 | 95.6 | 0   | 0.2 | YES | W1/F01 |
|                    | R2 | Residential | Unknown | 10   | 97   | 95.8 | 0.1 | 1.2 | YES | W2/F01 |
|                    | R3 | Residential | Unknown | 10   | 89.4 | 87.8 | 0.2 | 1.8 | YES | W3/F01 |
|                    | R4 | Residential | Unknown | 7.3  | 80.1 | 78.5 | 0.1 | 2   | YES | W4/F01 |

|                    |    |             |         |      |      |      |     |      |     |           |
|--------------------|----|-------------|---------|------|------|------|-----|------|-----|-----------|
| ANCOATS DISPENSARY |    |             |         |      |      |      |     |      |     |           |
| F00                | R1 | Residential | Bedroom | 15.2 | 85.4 | 70.9 | 2.2 | 17   | YES | W1-W2/F00 |
|                    | R2 | Residential | LKD     | 16.8 | 91.5 | 90.8 | 0.1 | 0.7  | YES | W3-W7/F00 |
| F01                | R1 | Residential | Bedroom | 15.2 | 86.9 | 76.1 | 1.6 | 12.5 | YES | W1-W2/F01 |
|                    | R2 | Residential | Bedroom | 11.1 | 31.9 | 0    | 3.5 | 100  | NO  | W3-W4/F01 |
| F02                | R1 | Residential | Bedroom | 15.2 | 93.2 | 87.3 | 0.9 | 6.3  | YES | W1-W2/F02 |
|                    | R2 | Residential | LKD     | 21.2 | 87.5 | 85   | 0.5 | 2.9  | YES | W3-W6/F02 |
| F03                | R1 | Residential | Bedroom | 15.2 | 97.3 | 93.7 | 0.6 | 3.8  | YES | W1-W2/F03 |
|                    | R2 | Residential | LKD     | 21.9 | 90   | 89.1 | 0.2 | 1    | YES | W3-W5/F03 |
| F04                | R1 | Residential | Bedroom | 12.4 | 88.1 | 48.6 | 4.9 | 44.9 | NO  | W1/F04    |
|                    | R2 | Residential | Bedroom | 11.7 | 95.6 | 34.5 | 7.1 | 63.9 | NO  | W2/F04    |
|                    | R3 | Residential | Bedroom | 15.6 | 91.8 | 90.2 | 0.2 | 1.7  | YES | W3-W5/F04 |
| F05                | R1 | Residential | Bedroom | 12.4 | 87.1 | 87.1 | 0   | 0    | YES | W1/F05    |
|                    | R2 | Residential | Bedroom | 11.7 | 96.7 | 96.7 | 0   | 0    | YES | W2/F05    |

|             |    |             |         |      |      |      |   |     |     |           |
|-------------|----|-------------|---------|------|------|------|---|-----|-----|-----------|
| 2 TAVERY CL |    |             |         |      |      |      |   |     |     |           |
| F00         | R1 | Residential | Unknown | 16.8 | 95.6 | 95.6 | 0 | 0   | YES | W1-W2/F00 |
|             | R2 | Residential | Kitchen | 11.8 | 99.8 | 99.8 | 0 | 0.1 | YES | W3-W4/F00 |
| F01         | R1 | Residential | Bedroom | 11.4 | 97.7 | 97.7 | 0 | 0   | YES | W1/F01    |
|             | R2 | Residential | Bedroom | 7.4  | 96.4 | 96.4 | 0 | 0   | YES | W2/F01    |
|             | R3 | Residential | Bedroom | 12.5 | 98.6 | 98.6 | 0 | 0   | YES | W3-W4/F01 |
| F02         | R1 | Residential | Unknown | 5.2  | 80.2 | 80.2 | 0 | 0   | YES | W1/F02    |

|             |    |             |         |      |      |      |   |   |     |           |
|-------------|----|-------------|---------|------|------|------|---|---|-----|-----------|
| 4 TAVERY CL |    |             |         |      |      |      |   |   |     |           |
| F00         | R1 | Residential | Unknown | 10.9 | 96.4 | 96.4 | 0 | 0 | YES | W1-W2/F00 |
| F01         | R1 | Residential | Unknown | 10.9 | 98   | 98   | 0 | 0 | YES | W1/F01    |

|                  |    |             |         |      |      |      |   |   |     |        |
|------------------|----|-------------|---------|------|------|------|---|---|-----|--------|
| 7 WEYBRIDGE ROAD |    |             |         |      |      |      |   |   |     |        |
| F00              | R1 | Residential | Unknown | 19.6 | 29.8 | 29.8 | 0 | 0 | YES | W1/F00 |
| F01              | R1 | Residential | Unknown | 11.2 | 73.7 | 73.7 | 0 | 0 | YES | W1/F01 |
|                  | R2 | Residential | Unknown | 4.7  | 25.8 | 25.8 | 0 | 0 | YES | W2/F01 |

|                |    |             |             |      |      |      |   |   |     |        |
|----------------|----|-------------|-------------|------|------|------|---|---|-----|--------|
| 2 WEYBRIDGE RD |    |             |             |      |      |      |   |   |     |        |
| F00            | R1 | Residential | Unknown     | 4.4  | 94.5 | 94.5 | 0 | 0 | YES | W1/F00 |
|                | R2 | Residential | Living Room | 13.7 | 90.2 | 90.2 | 0 | 0 | YES | W2/F00 |
| F01            | R1 | Residential | Unknown     | 4.8  | 95.4 | 95.4 | 0 | 0 | YES | W1/F01 |
|                | R2 | Residential | Bedroom     | 10.2 | 92.2 | 92.2 | 0 | 0 | YES | W2/F01 |
|                | R3 | Residential | Unknown     | 7    | 92.6 | 92.6 | 0 | 0 | YES | W3/F01 |

| FLOOR          | ROOM | PROPERTY TYPE | ROOM USE    | ROOM AREA (SQM) | EXISTING % | PROPOSED % | LOSS (SQM) | LOSS % | MEETS CRITERIA | WINDOWS ATTACHED TO THE ROOM |
|----------------|------|---------------|-------------|-----------------|------------|------------|------------|--------|----------------|------------------------------|
| 4 WEYBRIDGE RD |      |               |             |                 |            |            |            |        |                |                              |
| F00            | R1   | Residential   | Living Room | 13.7            | 86.8       | 86.8       | 0          | 0      | YES            | W1/F00                       |
| F01            | R1   | Residential   | Bedroom     | 10.2            | 93.6       | 93.6       | 0          | 0      | YES            | W1/F01                       |
|                | R2   | Residential   | Unknown     | 7               | 95.1       | 95.1       | 0          | 0      | YES            | W2/F01                       |
| LAMPWICK QUAY  |      |               |             |                 |            |            |            |        |                |                              |
| F01            | R1   | Residential   | Bedroom     | 10.7            | 81.1       | 72.1       | 1          | 11.1   | YES            | W1/F01                       |
|                | R2   | Residential   | LKD         | 30.2            | 45.1       | 45.1       | 0          | 0      | YES            | W2/F01                       |
|                | R3   | Residential   | Bedroom     | 10.4            | 52         | 52         | 0          | 0      | YES            | W3/F01                       |
|                | R4   | Residential   | Bedroom     | 10.7            | 54.5       | 54.4       | 0          | 0.2    | YES            | W4/F01                       |
|                | R5   | Residential   | LKD         | 15.7            | 50.8       | 50.7       | 0          | 0.1    | YES            | W5/F01                       |
|                | R6   | Residential   | Bedroom     | 10.4            | 57.7       | 57.7       | 0          | 0      | YES            | W6/F01                       |
| F02            | R1   | Residential   | Bedroom     | 10.7            | 89.2       | 87.6       | 0.2        | 1.7    | YES            | W1/F02                       |
|                | R2   | Residential   | LKD         | 30.2            | 54.6       | 54.6       | 0          | 0      | YES            | W2/F02                       |
|                | R3   | Residential   | Bedroom     | 10.4            | 79.4       | 79.4       | 0          | 0      | YES            | W3/F02                       |
|                | R4   | Residential   | Bedroom     | 10.7            | 81.5       | 81.4       | 0          | 0      | YES            | W4/F02                       |
|                | R5   | Residential   | LKD         | 15.7            | 70.2       | 70.2       | 0          | 0      | YES            | W5/F02                       |
|                | R6   | Residential   | Bedroom     | 10.4            | 77.2       | 77.2       | 0          | 0      | YES            | W6/F02                       |
| F03            | R1   | Residential   | Bedroom     | 10.7            | 94.7       | 94.6       | 0          | 0.1    | YES            | W1/F03                       |
|                | R2   | Residential   | LKD         | 30.2            | 66.1       | 66.1       | 0          | 0      | YES            | W2/F03                       |
|                | R3   | Residential   | Bedroom     | 10.4            | 93.5       | 93.5       | 0          | 0      | YES            | W3/F03                       |
|                | R4   | Residential   | Bedroom     | 10.7            | 94.9       | 94.9       | 0          | 0      | YES            | W4/F03                       |
|                | R5   | Residential   | LKD         | 15.7            | 97.9       | 97.9       | 0          | 0      | YES            | W5/F03                       |
|                | R6   | Residential   | Bedroom     | 10.4            | 93.5       | 93.5       | 0          | 0      | YES            | W6/F03                       |
| F04            | R1   | Residential   | Bedroom     | 10.7            | 94.7       | 94.7       | 0          | 0      | YES            | W1/F04                       |
|                | R2   | Residential   | LKD         | 30.2            | 86.7       | 86.7       | 0          | 0      | YES            | W2/F04                       |
|                | R3   | Residential   | Bedroom     | 10.4            | 93.4       | 93.4       | 0          | 0      | YES            | W3/F04                       |
|                | R4   | Residential   | Bedroom     | 10.7            | 94.9       | 94.9       | 0          | 0      | YES            | W4/F04                       |
|                | R5   | Residential   | LKD         | 15.7            | 99.8       | 99.8       | 0          | 0      | YES            | W5/F04                       |
|                | R6   | Residential   | Bedroom     | 10.4            | 93.5       | 93.5       | 0          | 0      | YES            | W6/F04                       |
| F05            | R1   | Residential   | Bedroom     | 10.7            | 94.6       | 94.6       | 0          | 0      | YES            | W1/F05                       |
|                | R2   | Residential   | LKD         | 30.2            | 91.8       | 91.8       | 0          | 0      | YES            | W2/F05                       |
|                | R3   | Residential   | Bedroom     | 10.4            | 93.5       | 93.5       | 0          | 0      | YES            | W3/F05                       |
|                | R4   | Residential   | Bedroom     | 10.7            | 94.9       | 94.9       | 0          | 0      | YES            | W4/F05                       |
|                | R5   | Residential   | LKD         | 15.7            | 99.8       | 99.8       | 0          | 0      | YES            | W5/F05                       |
|                | R6   | Residential   | Bedroom     | 10.4            | 93.5       | 93.5       | 0          | 0      | YES            | W6/F05                       |
| F06            | R1   | Residential   | Bedroom     | 10.7            | 94.7       | 94.7       | 0          | 0      | YES            | W1/F06                       |
|                | R2   | Residential   | LKD         | 30.2            | 97.2       | 97.2       | 0          | 0      | YES            | W2/F06                       |
|                | R3   | Residential   | Bedroom     | 10.4            | 93.5       | 93.5       | 0          | 0      | YES            | W3/F06                       |
|                | R4   | Residential   | Bedroom     | 10.7            | 94.9       | 94.9       | 0          | 0      | YES            | W4/F06                       |
|                | R5   | Residential   | LKD         | 15.7            | 99.8       | 99.8       | 0          | 0      | YES            | W5/F06                       |
|                | R6   | Residential   | Bedroom     | 10.4            | 93.5       | 93.5       | 0          | 0      | YES            | W6/F06                       |
| F07            | R1   | Residential   | Bedroom     | 10.7            | 94.7       | 94.7       | 0          | 0      | YES            | W1/F07                       |
|                | R2   | Residential   | LKD         | 30.2            | 97.3       | 97.3       | 0          | 0      | YES            | W2/F07                       |
|                | R3   | Residential   | Bedroom     | 10.4            | 93.5       | 93.5       | 0          | 0      | YES            | W3/F07                       |
|                | R4   | Residential   | Bedroom     | 10.7            | 95         | 95         | 0          | 0      | YES            | W4/F07                       |
|                | R5   | Residential   | LKD         | 15.7            | 99.8       | 99.8       | 0          | 0      | YES            | W5/F07                       |

| FLOOR | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA (SQM) | EXISTING % | PROPOSED % | LOSS (SQM) | LOSS % | MEETS CRITERIA | WINDOWS ATTACHED TO THE ROOM |
|-------|------|---------------|----------|-----------------|------------|------------|------------|--------|----------------|------------------------------|
|       | R6   | Residential   | Bedroom  | 10.4            | 93.4       | 93.4       | 0          | 0      | YES            | W6/F07                       |

WEAVERS QUAY

|     |     |             |         |      |      |      |     |      |     |             |
|-----|-----|-------------|---------|------|------|------|-----|------|-----|-------------|
| F01 | R1  | Residential | LKD     | 26.4 | 78   | 78   | 0   | 0    | YES | W1-W2/F01   |
|     | R2  | Residential | Bedroom | 11.4 | 97.8 | 97.8 | 0   | 0    | YES | W3-W4/F01   |
|     | R3  | Residential | Bedroom | 11.4 | 97.6 | 97.6 | 0   | 0    | YES | W5-W6/F01   |
|     | R4  | Residential | LKD     | 26.1 | 88   | 88   | 0   | 0    | YES | W7-W8/F01   |
|     | R5  | Residential | Bedroom | 11   | 97.7 | 97.7 | 0   | 0    | YES | W9-W10/F01  |
|     | R6  | Residential | Bedroom | 11   | 97.8 | 97.8 | 0   | 0    | YES | W11-W12/F01 |
|     | R7  | Residential | LKD     | 31.2 | 89.1 | 89.1 | 0   | 0    | YES | W13-W14/F01 |
|     | R8  | Residential | Bedroom | 10.8 | 96.7 | 93.8 | 0.3 | 3    | YES | W15-W16/F01 |
|     | R9  | Residential | Bedroom | 12.8 | 96.7 | 95.1 | 0.2 | 1.7  | YES | W17-W18/F01 |
|     | R10 | Residential | LKD     | 27   | 99.9 | 88.8 | 3   | 11.1 | YES | W19-W20/F01 |
|     | R11 | Residential | Bedroom | 12.2 | 97.1 | 94.8 | 0.3 | 2.4  | YES | W21-W22/F01 |
|     | R12 | Residential | LKD     | 29.7 | 99.8 | 74.5 | 7.5 | 25.4 | NO  | W23-W24/F01 |
|     | R13 | Residential | Bedroom | 12.2 | 96.7 | 95.8 | 0.1 | 1    | YES | W25-W26/F01 |
| F02 | R1  | Residential | LKD     | 26.4 | 90.8 | 90.8 | 0   | 0    | YES | W1-W2/F02   |
|     | R2  | Residential | Bedroom | 11.4 | 97.7 | 97.7 | 0   | 0    | YES | W3-W4/F02   |
|     | R3  | Residential | Bedroom | 11.4 | 97.7 | 97.7 | 0   | 0    | YES | W5-W6/F02   |
|     | R4  | Residential | LKD     | 26.1 | 94.6 | 94.6 | 0   | 0    | YES | W7-W8/F02   |
|     | R5  | Residential | Bedroom | 11   | 97.6 | 97.6 | 0   | 0    | YES | W9-W10/F02  |
|     | R6  | Residential | Bedroom | 11   | 97.7 | 97.7 | 0   | 0    | YES | W11-W12/F02 |
|     | R7  | Residential | LKD     | 31.2 | 91.8 | 91.8 | 0   | 0    | YES | W13-W14/F02 |
|     | R8  | Residential | Bedroom | 10.8 | 97.2 | 97.2 | 0   | 0    | YES | W15-W16/F02 |
|     | R9  | Residential | Bedroom | 12.8 | 96.8 | 96.8 | 0   | 0    | YES | W17-W18/F02 |
|     | R10 | Residential | LKD     | 27   | 99.9 | 91.3 | 2.3 | 8.6  | YES | W19-W20/F02 |
|     | R11 | Residential | Bedroom | 12.2 | 97   | 97   | 0   | 0    | YES | W21-W22/F02 |
|     | R12 | Residential | LKD     | 29.7 | 99.8 | 75.2 | 7.3 | 24.7 | NO  | W23-W24/F02 |
|     | R13 | Residential | Bedroom | 12.2 | 96.7 | 96.7 | 0   | 0    | YES | W25-W26/F02 |
| F03 | R1  | Residential | LKD     | 26.4 | 99.9 | 99.9 | 0   | 0    | YES | W1-W2/F03   |
|     | R2  | Residential | Bedroom | 11.4 | 97.7 | 97.7 | 0   | 0    | YES | W3-W4/F03   |
|     | R3  | Residential | Bedroom | 11.4 | 97.6 | 97.6 | 0   | 0    | YES | W5-W6/F03   |
|     | R4  | Residential | LKD     | 26.1 | 99.9 | 99.9 | 0   | 0    | YES | W7-W8/F03   |
|     | R5  | Residential | Bedroom | 11   | 97.7 | 97.7 | 0   | 0    | YES | W9-W10/F03  |
|     | R6  | Residential | Bedroom | 11   | 97.8 | 97.8 | 0   | 0    | YES | W11-W12/F03 |
|     | R7  | Residential | LKD     | 31.2 | 96.4 | 96.4 | 0   | 0    | YES | W13-W14/F03 |
|     | R8  | Residential | Bedroom | 10.8 | 97.2 | 97.2 | 0   | 0    | YES | W15-W16/F03 |
|     | R9  | Residential | Bedroom | 12.8 | 96.7 | 96.7 | 0   | 0    | YES | W17-W18/F03 |
|     | R10 | Residential | LKD     | 27   | 99.9 | 96.6 | 0.9 | 3.3  | YES | W19-W20/F03 |
|     | R11 | Residential | Bedroom | 12.2 | 97.1 | 97.1 | 0   | 0    | YES | W21-W22/F03 |
|     | R12 | Residential | LKD     | 29.7 | 99.8 | 92.8 | 2.1 | 7    | YES | W23-W24/F03 |
|     | R13 | Residential | Bedroom | 12.2 | 96.8 | 96.8 | 0   | 0    | YES | W25-W26/F03 |
| F04 | R1  | Residential | LKD     | 26.4 | 99.9 | 99.9 | 0   | 0    | YES | W1-W2/F04   |
|     | R2  | Residential | Bedroom | 11.4 | 97.7 | 97.7 | 0   | 0    | YES | W3-W4/F04   |
| F05 | R1  | Residential | LKD     | 26.4 | 99.9 | 99.9 | 0   | 0    | YES | W1-W2/F05   |
|     | R2  | Residential | Bedroom | 11.4 | 97.7 | 97.7 | 0   | 0    | YES | W3-W4/F05   |
| F06 | R1  | Residential | LKD     | 26.4 | 99.9 | 99.9 | 0   | 0    | YES | W1-W2/F06   |
|     | R2  | Residential | Bedroom | 11.4 | 97.7 | 97.7 | 0   | 0    | YES | W3-W4/F06   |

| FLOOR | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA (SQM) | EXISTING % | PROPOSED % | LOSS (SQM) | LOSS % | MEETS CRITERIA | WINDOWS ATTACHED TO THE ROOM |
|-------|------|---------------|----------|-----------------|------------|------------|------------|--------|----------------|------------------------------|
| F07   | R1   | Residential   | LKD      | 26.4            | 99.9       | 99.9       | 0          | 0      | YES            | W1-W2/F07                    |
|       | R2   | Residential   | Bedroom  | 11.4            | 97.6       | 97.6       | 0          | 0      | YES            | W3-W4/F07                    |
| F08   | R1   | Residential   | LKD      | 26.4            | 99.9       | 99.9       | 0          | 0      | YES            | W1-W2/F08                    |
|       | R2   | Residential   | Bedroom  | 11.4            | 97.8       | 97.8       | 0          | 0      | YES            | W3-W4/F08                    |
| F09   | R1   | Residential   | LKD      | 26.4            | 99.9       | 99.9       | 0          | 0      | YES            | W1-W2/F09                    |
|       | R2   | Residential   | Bedroom  | 11.4            | 97.7       | 97.7       | 0          | 0      | YES            | W3-W4/F09                    |

| CHIPS |    |             |         |      |      |      |     |     |     |                 |
|-------|----|-------------|---------|------|------|------|-----|-----|-----|-----------------|
| F01   | R1 | Residential | LKD     | 31.1 | 82.7 | 80.8 | 0.6 | 2.3 | YES | W1-W3/F01       |
|       | R2 | Residential | Bedroom | 15.6 | 61   | 60.8 | 0   | 0.4 | YES | W4/F01          |
|       | R3 | Residential | LKD     | 21.9 | 69.2 | 68.2 | 0.2 | 1.4 | YES | W5-W6/F01       |
| F02   | R1 | Residential | Unknown | 18.3 | 75.5 | 75.5 | 0   | 0   | YES | W1-W2/F02       |
|       | R2 | Residential | Unknown | 11.7 | 85.7 | 85.7 | 0   | 0   | YES | W3-W4/F02       |
|       | R3 | Residential | Unknown | 16.2 | 66.8 | 66.7 | 0   | 0.1 | YES | W5-W6/F02       |
|       | R4 | Residential | Kitchen | 22.4 | 72.4 | 72.3 | 0   | 0.3 | YES | W7-W8/F02       |
| F03   | R1 | Residential | Kitchen | 11   | 99.9 | 99.9 | 0   | 0   | YES | W1, W13/F03     |
|       | R2 | Residential | Kitchen | 10   | 91.7 | 91.7 | 0   | 0   | YES | W2/F03          |
|       | R3 | Residential | Kitchen | 31.1 | 94.9 | 94.9 | 0   | 0   | YES | W3-W6/F03       |
|       | R4 | Residential | Kitchen | 10.8 | 86.6 | 86.6 | 0   | 0   | YES | W7-W8/F03       |
|       | R5 | Residential | Kitchen | 23.6 | 73.1 | 72.5 | 0.1 | 0.8 | YES | W9-W10/F03      |
|       | R6 | Residential | Kitchen | 19.5 | 64.9 | 64.6 | 0.1 | 0.5 | YES | W11-W12/F03     |
| F04   | R1 | Residential | Unknown | 11   | 99.6 | 99.6 | 0   | 0   | YES | W1-W2, W12/F04  |
|       | R2 | Residential | Unknown | 10   | 99.3 | 99.3 | 0   | 0   | YES | W3/F04          |
|       | R3 | Residential | Unknown | 31.1 | 97.5 | 97.5 | 0   | 0   | YES | W4-W6/F04       |
|       | R4 | Residential | Unknown | 10.8 | 68.2 | 68.1 | 0   | 0.1 | YES | W7/F04          |
|       | R5 | Residential | Kitchen | 23.6 | 87.5 | 87.5 | 0   | 0   | YES | W8-W9/F04       |
|       | R6 | Residential | Kitchen | 19.5 | 88.1 | 88.1 | 0   | 0   | YES | W10-W11/F04     |
| F05   | R1 | Residential | Unknown | 11   | 99.5 | 99.5 | 0   | 0   | YES | W1, W11-W12/F05 |
|       | R2 | Residential | Unknown | 10   | 98.1 | 98.1 | 0   | 0   | YES | W2/F05          |
|       | R3 | Residential | Unknown | 31.1 | 96.3 | 96.3 | 0   | 0   | YES | W3-W6/F05       |
|       | R4 | Residential | Unknown | 8.4  | 100  | 100  | 0   | 0   | YES | W7/F05          |
|       | R5 | Residential | Kitchen | 19   | 100  | 100  | 0   | 0   | YES | W8/F05          |
|       | R6 | Residential | Kitchen | 21.4 | 99.2 | 99.2 | 0   | 0   | YES | W9-W10/F05      |

APPENDIX 03  
RESULTS & CONTOURS:

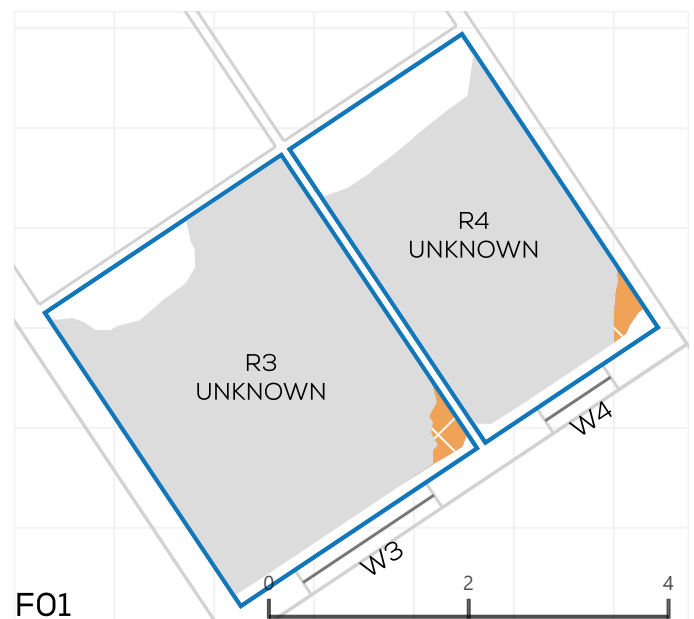
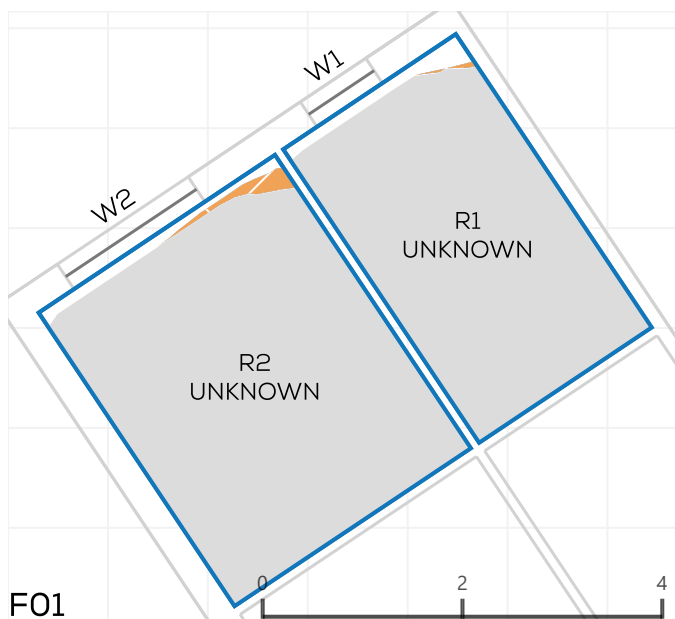
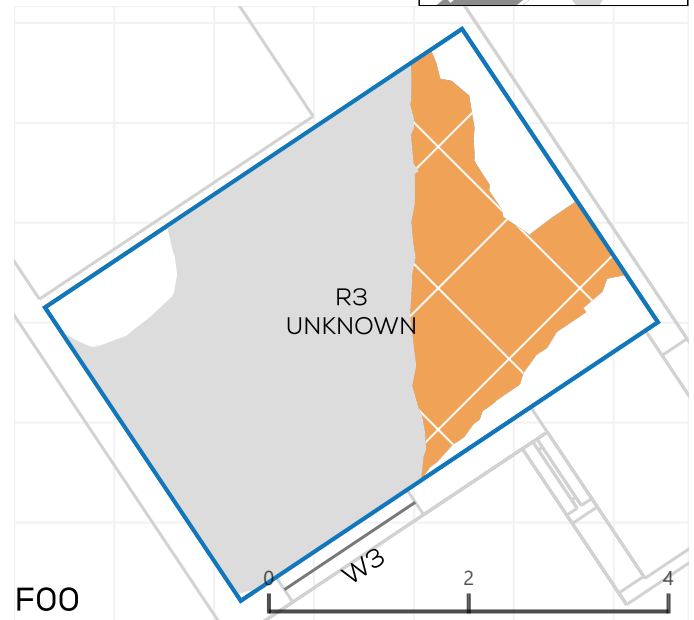
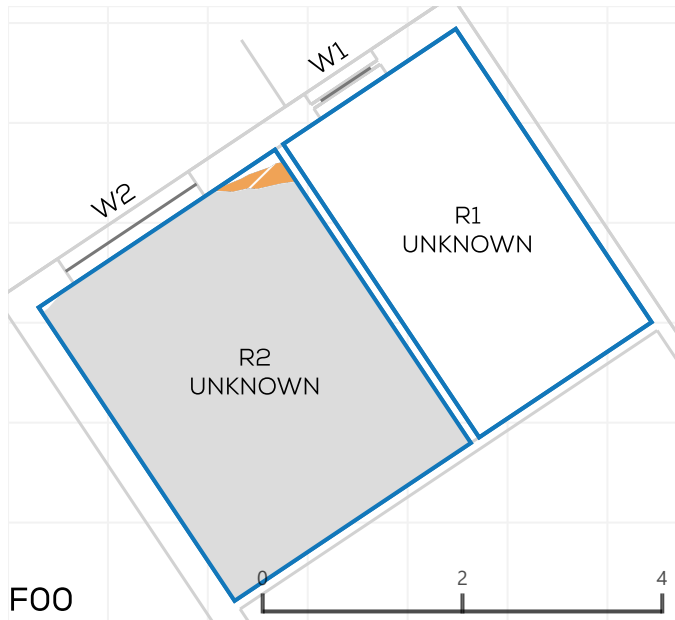
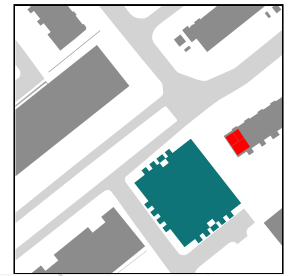
# NSL CONTOURS

# NSL CONTOURS



PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
 REPORT TITLE: EXISTING VS. PROPOSED  
 ADDRESS: 88 OLD MILL STREET  
 DATE: 08/11/2023  
 SCHEME IR: IR08  
 DRAWING No.: 0536-REL03-IS01-NSL1

KEY:  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID



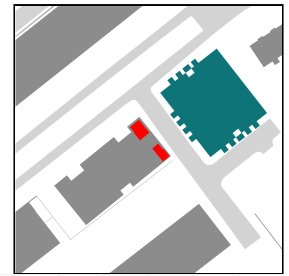
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|--------------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| 88 OLD MILL STREET |      |               |          |               |            |            |          |        |
| F00                | R1   | RESIDENTIAL   | UNKNOWN  | 7.3           | 0          | 0          | 0.0      | 0      |
| F00                | R2   | RESIDENTIAL   | UNKNOWN  | 10.0          | 99.4       | 98.3       | 0.1      | 1.1    |
| F00                | R3   | RESIDENTIAL   | UNKNOWN  | 17.7          | 83.9       | 60.4       | 4.2      | 28     |
| F01                | R1   | RESIDENTIAL   | UNKNOWN  | 7.3           | 95.8       | 95.6       | 0.0      | 0.2    |
| F01                | R2   | RESIDENTIAL   | UNKNOWN  | 10.0          | 97         | 95.8       | 0.1      | 1.2    |
| F01                | R3   | RESIDENTIAL   | UNKNOWN  | 10.0          | 89.4       | 87.8       | 0.2      | 1.8    |
| F01                | R4   | RESIDENTIAL   | UNKNOWN  | 7.3           | 80.1       | 78.5       | 0.1      | 2      |

# NSL CONTOURS



PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
 REPORT TITLE: EXISTING VS. PROPOSED  
 ADDRESS: ANCOATS DISPENSARY  
 DATE: 08/11/2023  
 SCHEME IR: IR08  
 DRAWING No.: 0536-REL03-IS01-NSL2

KEY:  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID



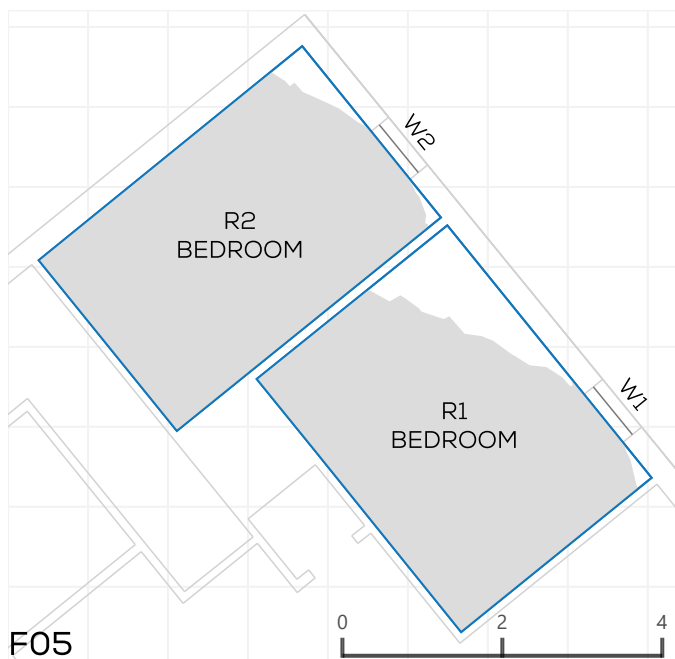
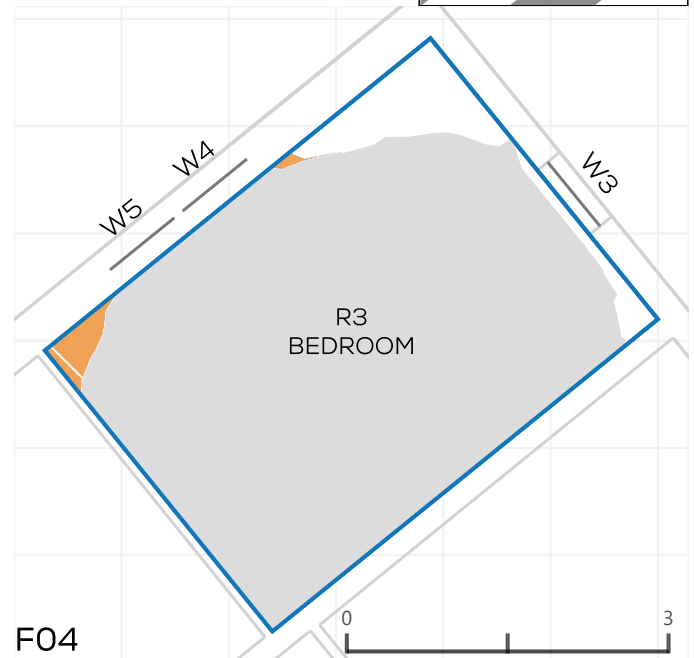
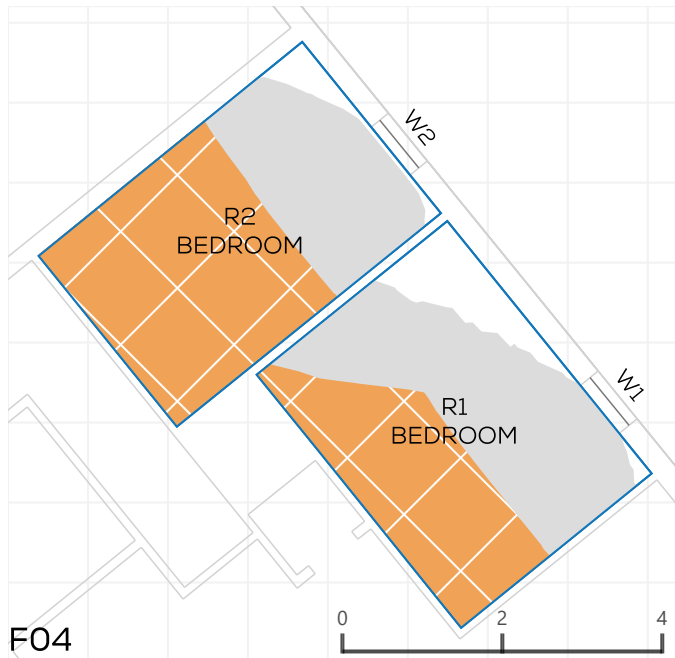
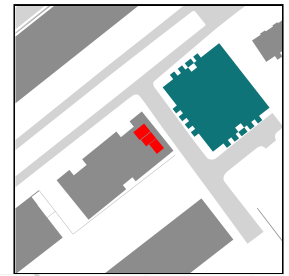
| FLOOR              | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|--------------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| ANCOATS DISPENSARY |      |               |          |               |            |            |          |        |
| F00                | R1   | RESIDENTIAL   | BEDROOM  | 15.2          | 85.4       | 70.9       | 2.2      | 17     |
| F00                | R2   | RESIDENTIAL   | LKD      | 16.8          | 91.5       | 90.8       | 0.1      | 0.7    |
| F01                | R1   | RESIDENTIAL   | BEDROOM  | 15.2          | 86.9       | 76.1       | 1.6      | 12.5   |
| F01                | R2   | RESIDENTIAL   | BEDROOM  | 11.1          | 31.9       | 0          | 3.5      | 100    |
| F02                | R1   | RESIDENTIAL   | BEDROOM  | 15.2          | 93.2       | 87.3       | 0.9      | 6.3    |
| F02                | R2   | RESIDENTIAL   | LKD      | 21.2          | 87.5       | 85         | 0.5      | 2.9    |
| F03                | R1   | RESIDENTIAL   | BEDROOM  | 15.2          | 97.3       | 93.7       | 0.6      | 3.8    |
| F03                | R2   | RESIDENTIAL   | LKD      | 21.9          | 90         | 89.1       | 0.2      | 1      |

# NSL CONTOURS



PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
 REPORT TITLE: EXISTING VS. PROPOSED  
 ADDRESS: ANCOATS DISPENSARY  
 DATE: 08/11/2023  
 SCHEME IR: IR08  
 DRAWING No.: 0536-REL03-IS01-NSL3

KEY:  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID



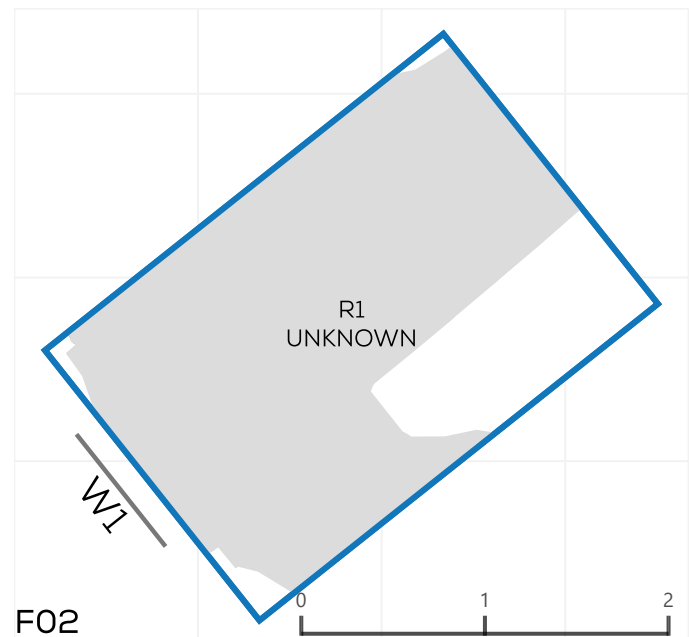
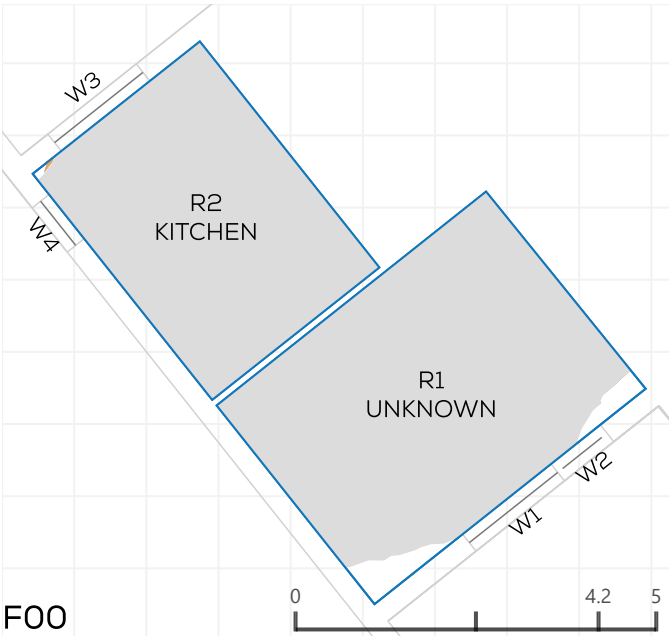
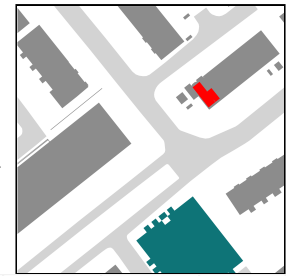
| FLOOR              | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|--------------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| ANCOATS DISPENSARY |      |               |          |               |            |            |          |        |
| F04                | R1   | RESIDENTIAL   | BEDROOM  | 12.4          | 88.1       | 48.6       | 4.9      | 44.9   |
| F04                | R2   | RESIDENTIAL   | BEDROOM  | 11.7          | 95.6       | 34.5       | 7.1      | 63.9   |
| F04                | R3   | RESIDENTIAL   | BEDROOM  | 15.6          | 91.8       | 90.2       | 0.2      | 1.7    |
| F05                | R1   | RESIDENTIAL   | BEDROOM  | 12.4          | 87.1       | 87.1       | 0.0      | 0      |
| F05                | R2   | RESIDENTIAL   | BEDROOM  | 11.7          | 96.7       | 96.7       | 0.0      | 0      |

# NSL CONTOURS



PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
 REPORT TITLE: EXISTING VS. PROPOSED  
 ADDRESS: 2 TAVERY CL  
 DATE: 08/11/2023  
 SCHEME IR: IR08  
 DRAWING No.: 0536-REL03-IS01-NSL4

KEY:  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID



| FLOOR       | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|-------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| 2 TAVERY CL |      |               |          |               |            |            |          |        |
| F00         | R1   | RESIDENTIAL   | UNKNOWN  | 16.8          | 95.6       | 95.6       | 0.0      | 0      |
| F00         | R2   | RESIDENTIAL   | KITCHEN  | 11.8          | 99.8       | 99.8       | 0.0      | 0.1    |
| F01         | R1   | RESIDENTIAL   | BEDROOM  | 11.4          | 97.7       | 97.7       | 0.0      | 0      |
| F01         | R2   | RESIDENTIAL   | BEDROOM  | 7.4           | 96.4       | 96.4       | 0.0      | 0      |
| F01         | R3   | RESIDENTIAL   | BEDROOM  | 12.5          | 98.6       | 98.6       | 0.0      | 0      |
| F02         | R1   | RESIDENTIAL   | UNKNOWN  | 5.2           | 80.2       | 80.2       | 0.0      | 0      |

# NSL CONTOURS



PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: 4 TAVERY CL  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL5

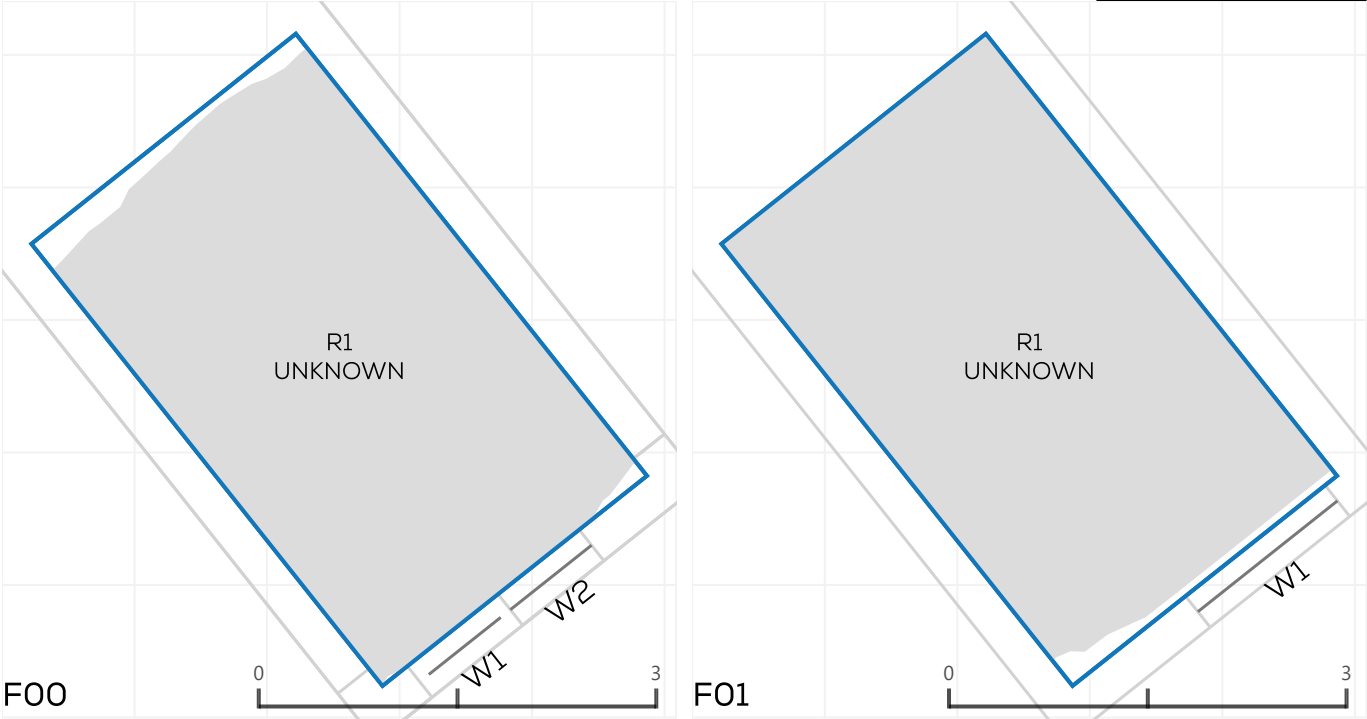
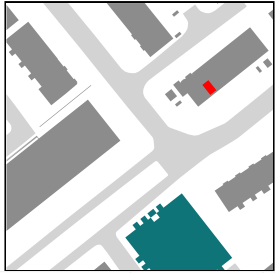
KEY:

GAIN

LOSS

MAINTAINED LIT AREA

1 METRE GRID



| FLOOR       | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|-------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| 4 TAVERY CL |      |               |          |               |            |            |          |        |
| F00         | R1   | RESIDENTIAL   | UNKNOWN  | 10.9          | 96.4       | 96.4       | 0.0      | 0      |
| F01         | R1   | RESIDENTIAL   | UNKNOWN  | 10.9          | 98         | 98         | 0.0      | 0      |

# NSL CONTOURS



PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: 7 WEYBRIDGE ROAD  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL6

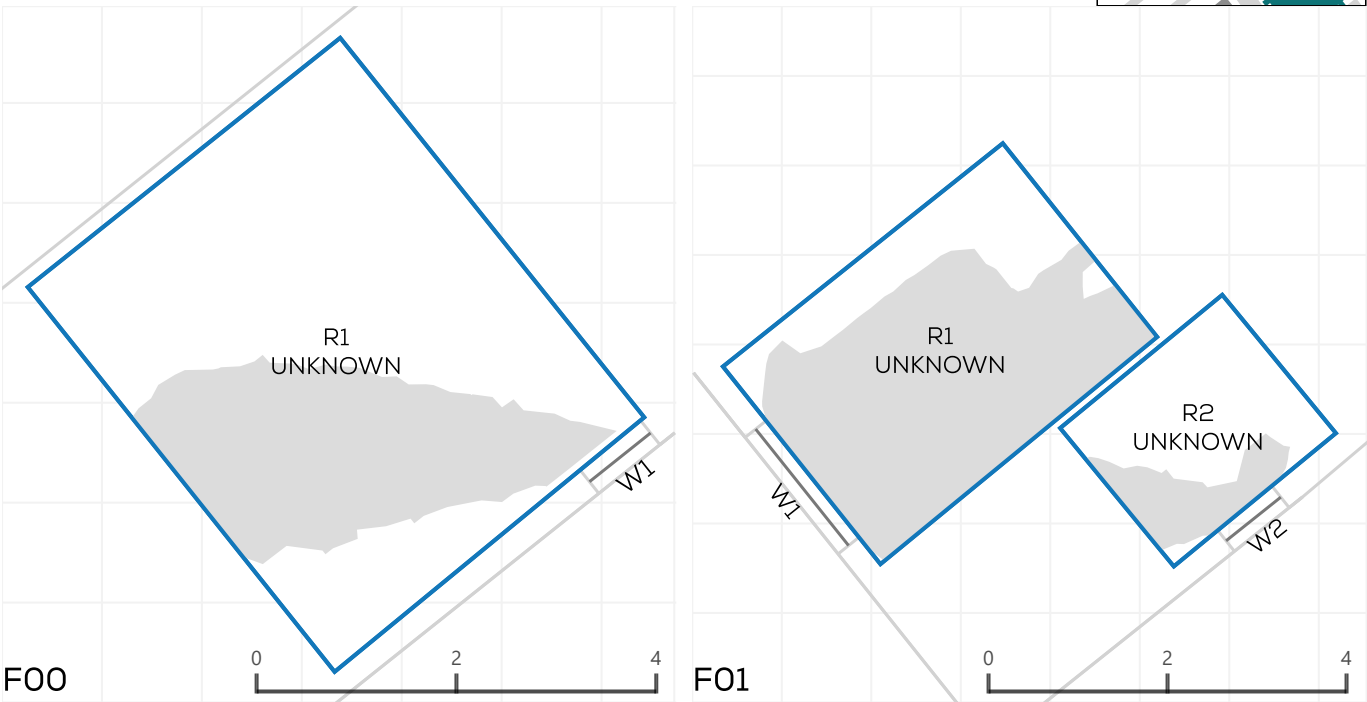
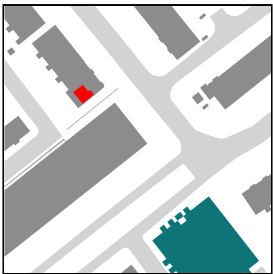
KEY:

GAIN

LOSS

MAINTAINED LIT AREA

1 METRE GRID



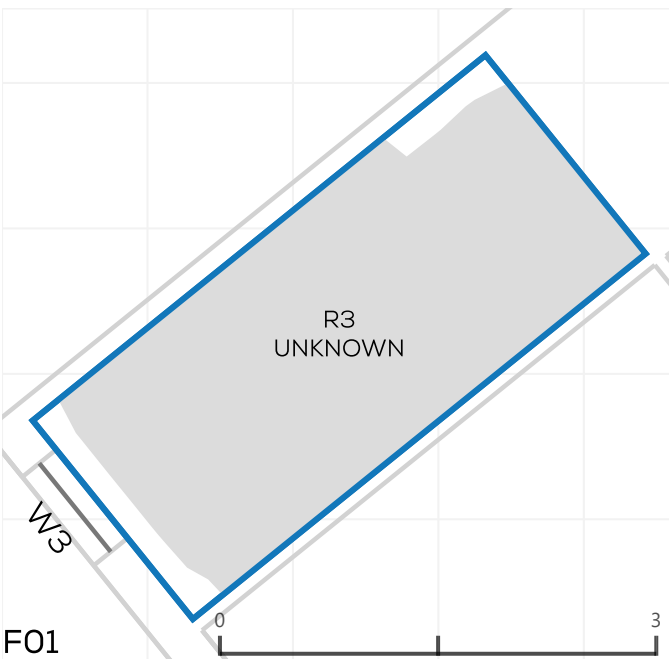
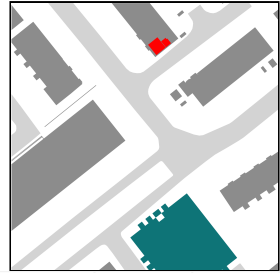
| FLOOR            | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|------------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| 7 WEYBRIDGE ROAD |      |               |          |               |            |            |          |        |
| F00              | R1   | RESIDENTIAL   | UNKNOWN  | 19.6          | 29.8       | 29.8       | 0.0      | 0      |
| F01              | R1   | RESIDENTIAL   | UNKNOWN  | 11.2          | 73.7       | 73.7       | 0.0      | 0      |
| F01              | R2   | RESIDENTIAL   | UNKNOWN  | 4.7           | 25.8       | 25.8       | 0.0      | 0      |

# NSL CONTOURS



PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
 REPORT TITLE: EXISTING VS. PROPOSED  
 ADDRESS: 2 WEYBRIDGE RD  
 DATE: 08/11/2023  
 SCHEME IR: IR08  
 DRAWING No.: 0536-REL03-IS01-NSL7

**KEY:**  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID



| FLOOR          | ROOM | PROPERTY TYPE | ROOM USE    | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|----------------|------|---------------|-------------|---------------|------------|------------|----------|--------|
| 2 WEYBRIDGE RD |      |               |             |               |            |            |          |        |
| F00            | R1   | RESIDENTIAL   | UNKNOWN     | 4.4           | 94.5       | 94.5       | 0.0      | 0      |
| F00            | R2   | RESIDENTIAL   | LIVING ROOM | 13.7          | 90.2       | 90.2       | 0.0      | 0      |
| F01            | R1   | RESIDENTIAL   | UNKNOWN     | 4.8           | 95.4       | 95.4       | 0.0      | 0      |
| F01            | R2   | RESIDENTIAL   | BEDROOM     | 10.2          | 92.2       | 92.2       | 0.0      | 0      |
| F01            | R3   | RESIDENTIAL   | UNKNOWN     | 7.0           | 92.6       | 92.6       | 0.0      | 0      |

PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: 4 WEYBRIDGE RD  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL8

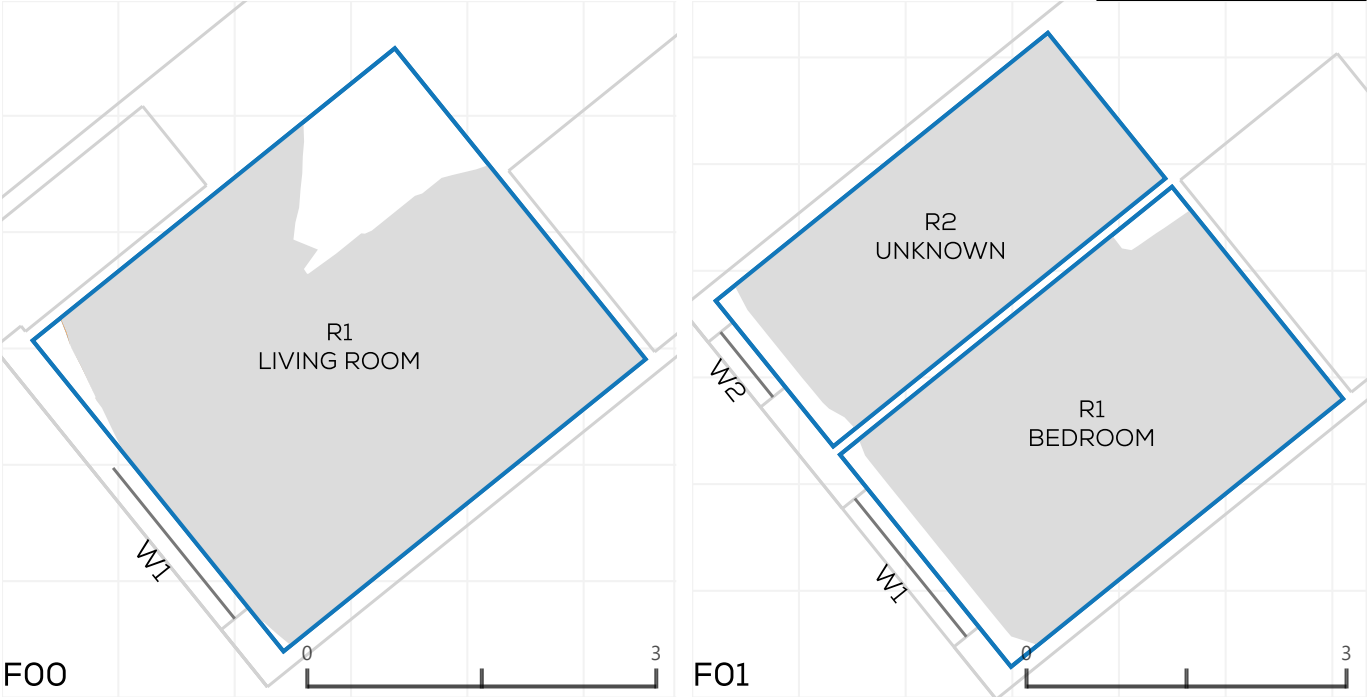
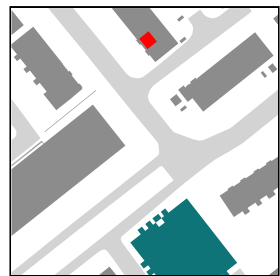
KEY:

GAIN

LOSS

MAINTAINED LIT AREA

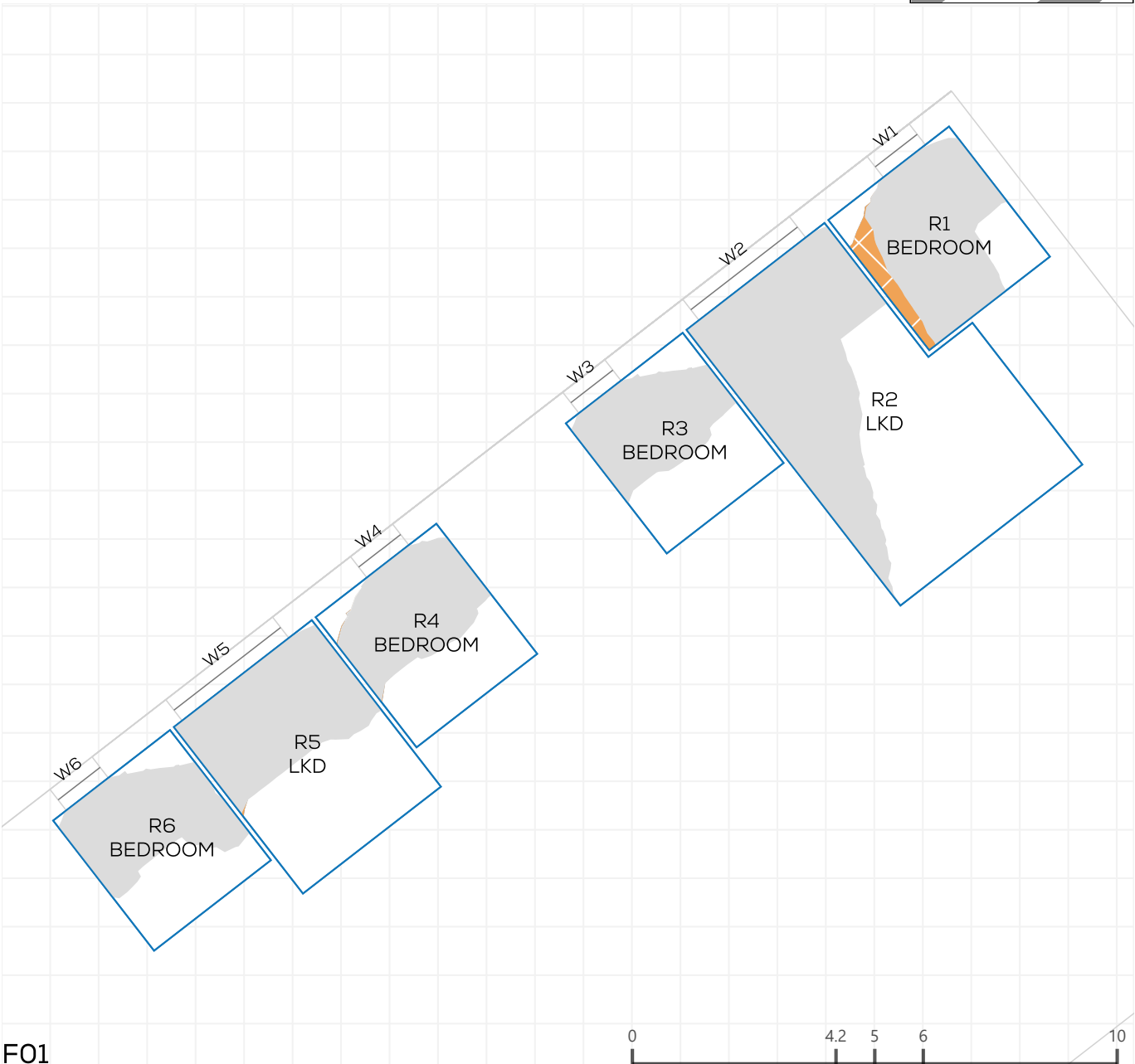
1 METRE GRID



| FLOOR          | ROOM | PROPERTY TYPE | ROOM USE    | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|----------------|------|---------------|-------------|---------------|------------|------------|----------|--------|
|                |      |               |             |               |            |            |          |        |
| 4 WEYBRIDGE RD |      |               |             |               |            |            |          |        |
| F00            | R1   | RESIDENTIAL   | LIVING ROOM | 13.7          | 86.8       | 86.8       | 0.0      | 0      |
| F01            | R1   | RESIDENTIAL   | BEDROOM     | 10.2          | 93.6       | 93.6       | 0.0      | 0      |
| F01            | R2   | RESIDENTIAL   | UNKNOWN     | 7.0           | 95.1       | 95.1       | 0.0      | 0      |

PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: LAMPWICK QUAY  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL9

KEY:  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID



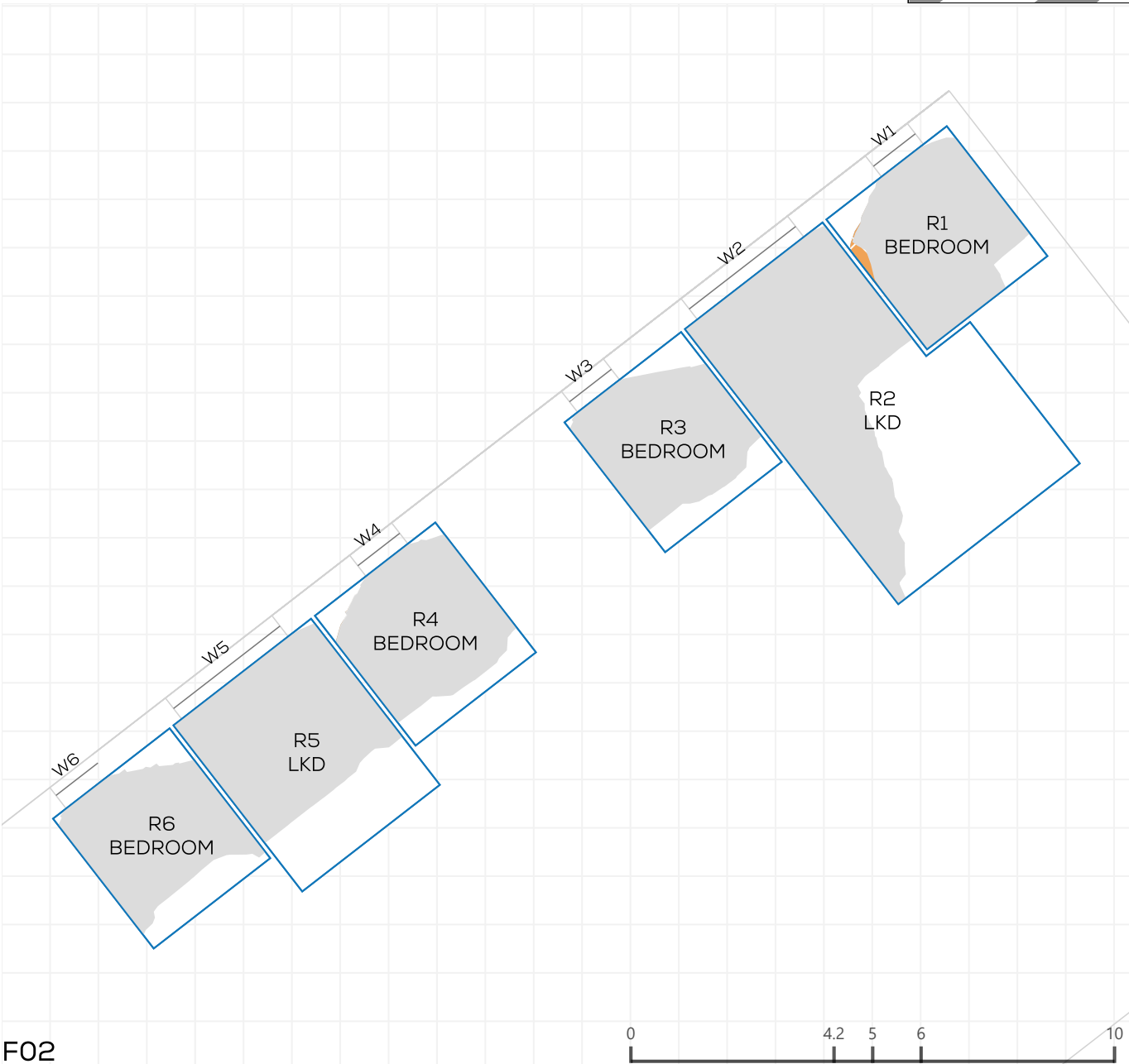
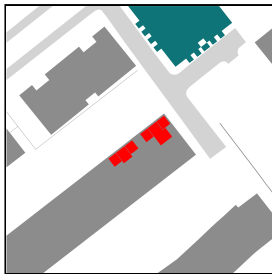
F01



| FLOOR         | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|---------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| LAMPWICK QUAY |      |               |          |               |            |            |          |        |
| F01           | R1   | RESIDENTIAL   | BEDROOM  | 10.7          | 81.1       | 72.1       | 1.0      | 11.1   |
| F01           | R2   | RESIDENTIAL   | LKD      | 30.2          | 45.1       | 45.1       | 0.0      | 0      |
| F01           | R3   | RESIDENTIAL   | BEDROOM  | 10.4          | 52         | 52         | 0.0      | 0      |
| F01           | R4   | RESIDENTIAL   | BEDROOM  | 10.7          | 54.5       | 54.4       | 0.0      | 0.2    |
| F01           | R5   | RESIDENTIAL   | LKD      | 15.7          | 50.8       | 50.7       | 0.0      | 0.1    |
| F01           | R6   | RESIDENTIAL   | BEDROOM  | 10.4          | 57.7       | 57.7       | 0.0      | 0      |

PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: LAMPWICK QUAY  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL10

KEY:  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID



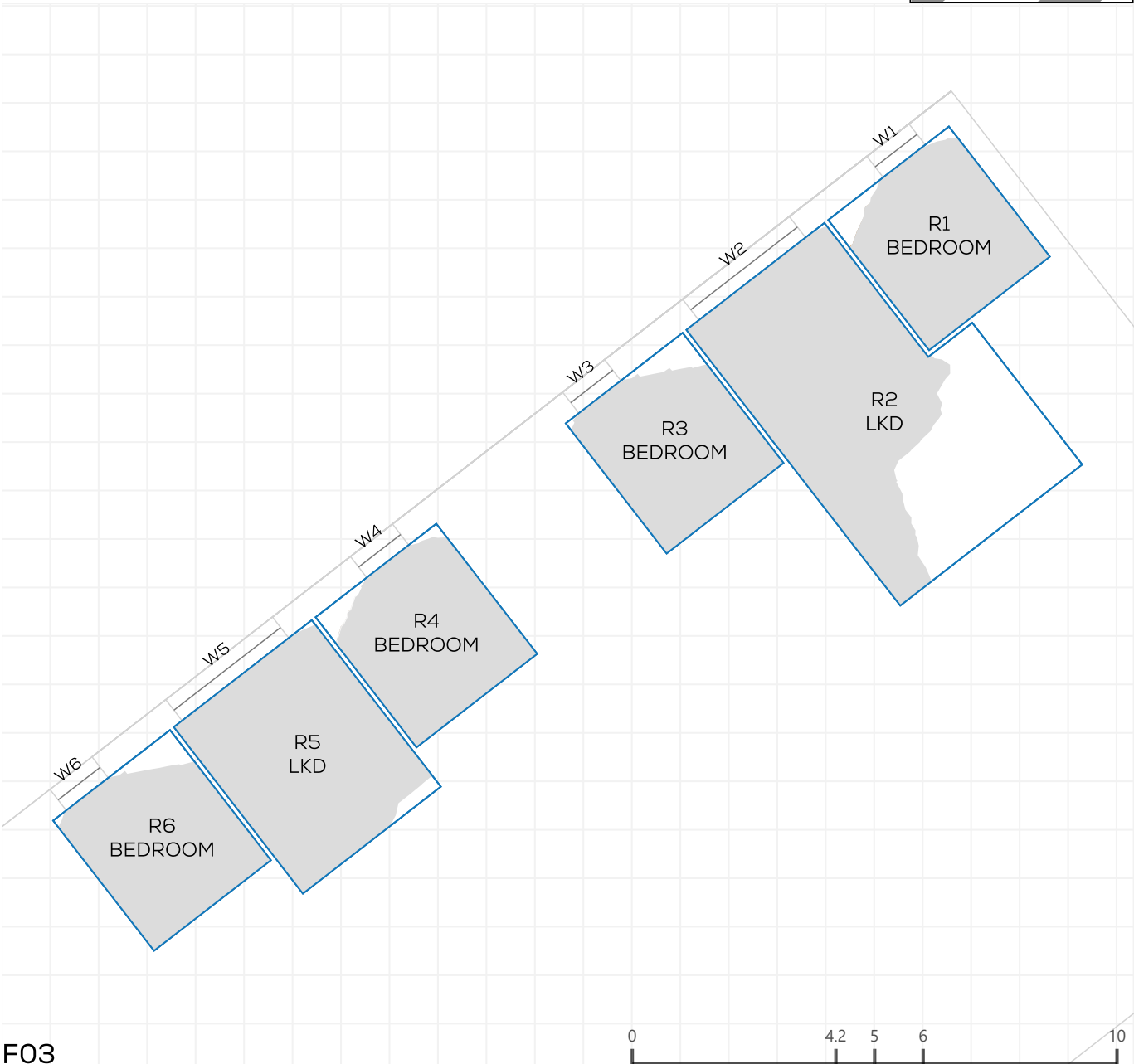
F02



| FLOOR         | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|---------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| LAMPWICK QUAY |      |               |          |               |            |            |          |        |
| F02           | R1   | RESIDENTIAL   | BEDROOM  | 10.7          | 89.2       | 87.6       | 0.2      | 1.7    |
| F02           | R2   | RESIDENTIAL   | LKD      | 30.2          | 54.6       | 54.6       | 0.0      | 0      |
| F02           | R3   | RESIDENTIAL   | BEDROOM  | 10.4          | 79.4       | 79.4       | 0.0      | 0      |
| F02           | R4   | RESIDENTIAL   | BEDROOM  | 10.7          | 81.5       | 81.4       | 0.0      | 0      |
| F02           | R5   | RESIDENTIAL   | LKD      | 15.7          | 70.2       | 70.2       | 0.0      | 0      |
| F02           | R6   | RESIDENTIAL   | BEDROOM  | 10.4          | 77.2       | 77.2       | 0.0      | 0      |

PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: LAMPWICK QUAY  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL11

KEY:  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID

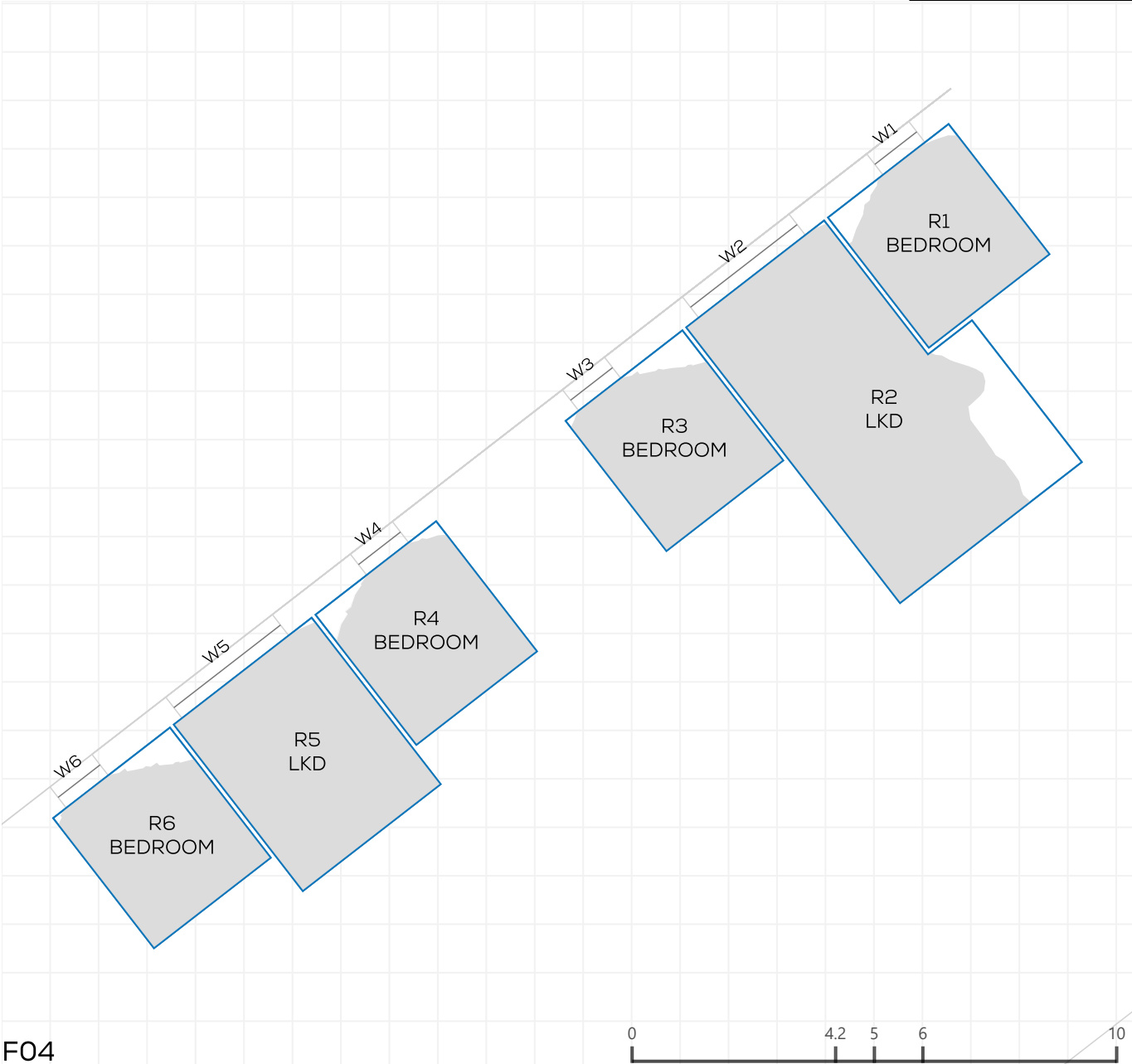
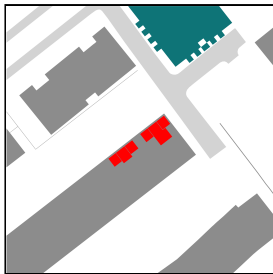


F03

| FLOOR         | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|---------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| LAMPWICK QUAY |      |               |          |               |            |            |          |        |
| F03           | R1   | RESIDENTIAL   | BEDROOM  | 10.7          | 94.7       | 94.6       | 0.0      | 0.1    |
| F03           | R2   | RESIDENTIAL   | LKD      | 30.2          | 66.1       | 66.1       | 0.0      | 0      |
| F03           | R3   | RESIDENTIAL   | BEDROOM  | 10.4          | 93.5       | 93.5       | 0.0      | 0      |
| F03           | R4   | RESIDENTIAL   | BEDROOM  | 10.7          | 94.9       | 94.9       | 0.0      | 0      |
| F03           | R5   | RESIDENTIAL   | LKD      | 15.7          | 97.9       | 97.9       | 0.0      | 0      |
| F03           | R6   | RESIDENTIAL   | BEDROOM  | 10.4          | 93.5       | 93.5       | 0.0      | 0      |

PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: LAMPWICK QUAY  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL12

KEY:  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID

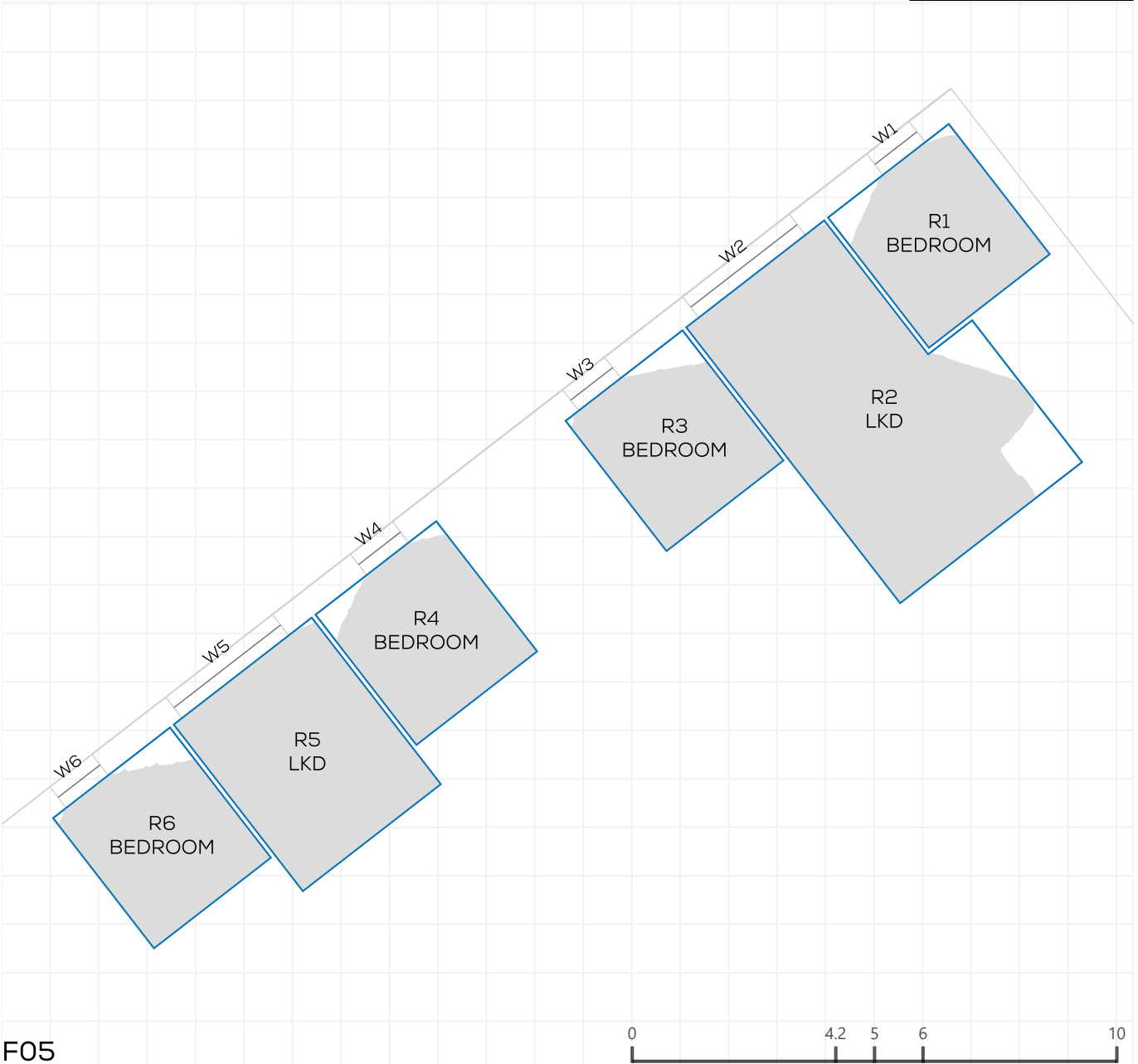
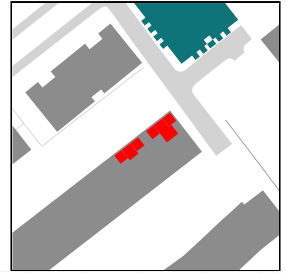


F04

| FLOOR         | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|---------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| LAMPWICK QUAY |      |               |          |               |            |            |          |        |
| F04           | R1   | RESIDENTIAL   | BEDROOM  | 10.7          | 94.7       | 94.7       | 0.0      | 0      |
| F04           | R2   | RESIDENTIAL   | LKD      | 30.2          | 86.7       | 86.7       | 0.0      | 0      |
| F04           | R3   | RESIDENTIAL   | BEDROOM  | 10.4          | 93.4       | 93.4       | 0.0      | 0      |
| F04           | R4   | RESIDENTIAL   | BEDROOM  | 10.7          | 94.9       | 94.9       | 0.0      | 0      |
| F04           | R5   | RESIDENTIAL   | LKD      | 15.7          | 99.8       | 99.8       | 0.0      | 0      |
| F04           | R6   | RESIDENTIAL   | BEDROOM  | 10.4          | 93.5       | 93.5       | 0.0      | 0      |

PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: LAMPWICK QUAY  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL13

KEY:  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID



F05



| FLOOR         | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|---------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| LAMPWICK QUAY |      |               |          |               |            |            |          |        |
| F05           | R1   | RESIDENTIAL   | BEDROOM  | 10.7          | 94.6       | 94.6       | 0.0      | 0      |
| F05           | R2   | RESIDENTIAL   | LKD      | 30.2          | 91.8       | 91.8       | 0.0      | 0      |
| F05           | R3   | RESIDENTIAL   | BEDROOM  | 10.4          | 93.5       | 93.5       | 0.0      | 0      |
| F05           | R4   | RESIDENTIAL   | BEDROOM  | 10.7          | 94.9       | 94.9       | 0.0      | 0      |
| F05           | R5   | RESIDENTIAL   | LKD      | 15.7          | 99.8       | 99.8       | 0.0      | 0      |
| F05           | R6   | RESIDENTIAL   | BEDROOM  | 10.4          | 93.5       | 93.5       | 0.0      | 0      |

PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: LAMPWICK QUAY  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL14

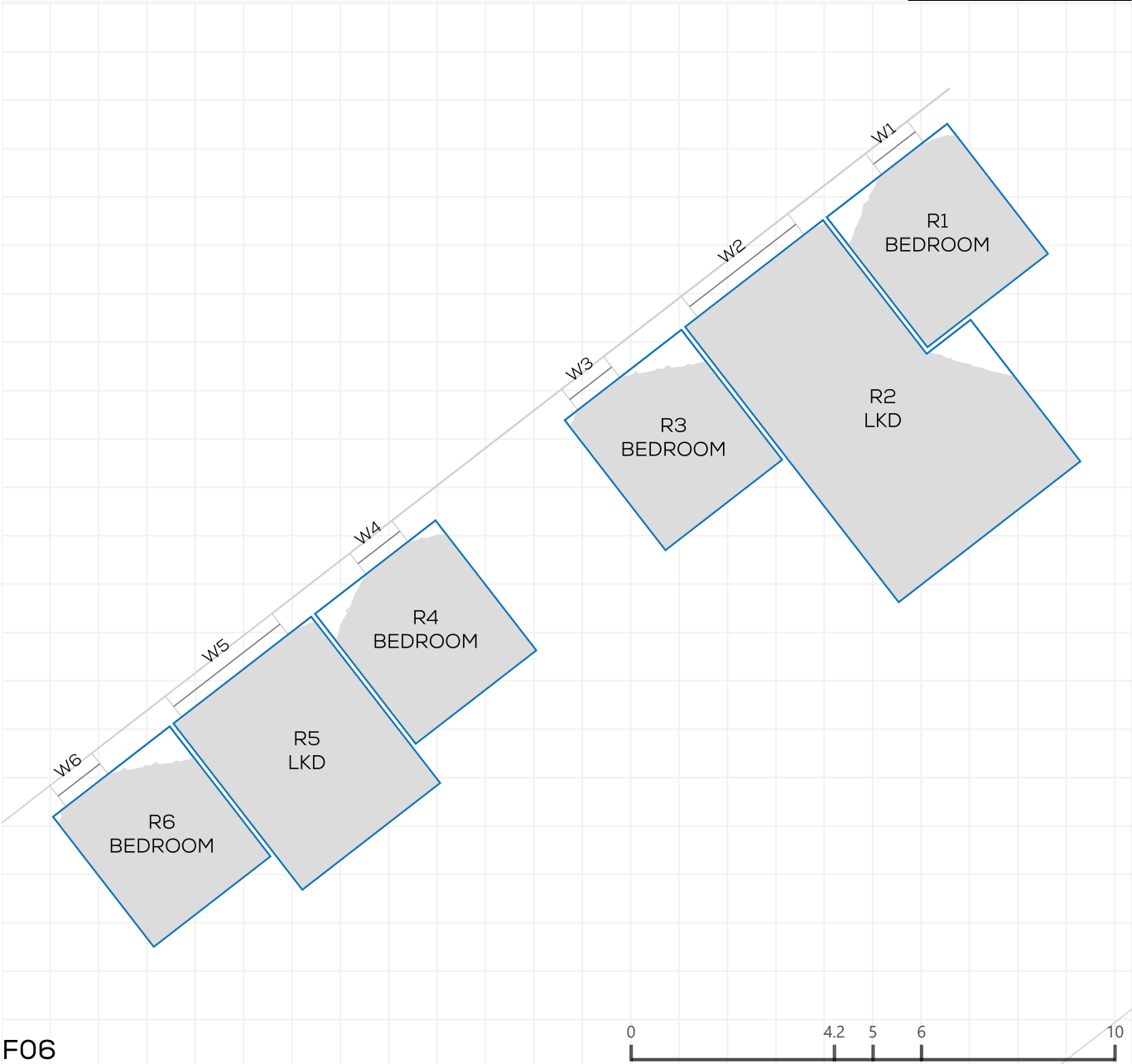
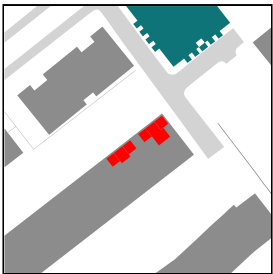
KEY:

GAIN

LOSS

MAINTAINED LIT AREA

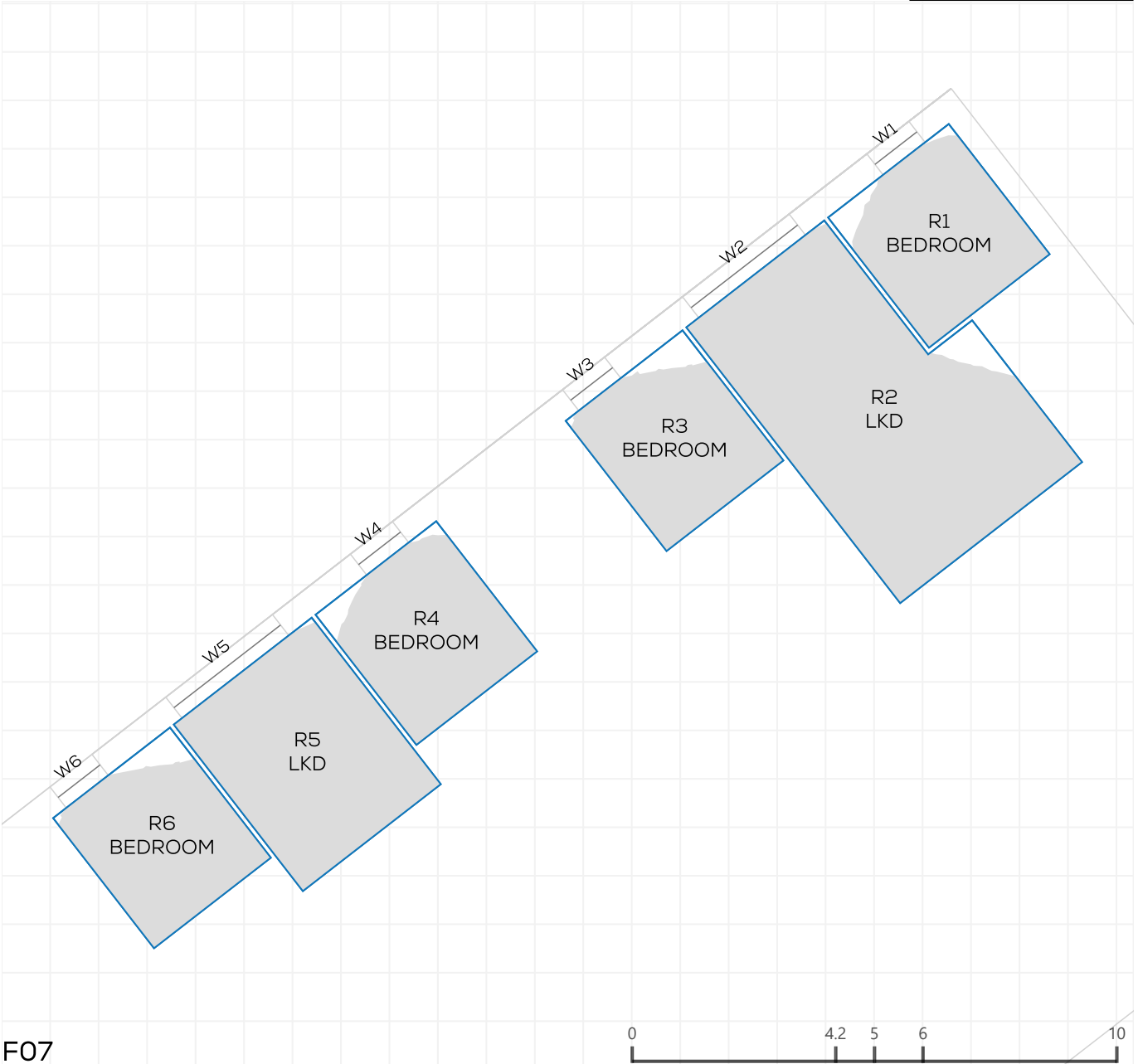
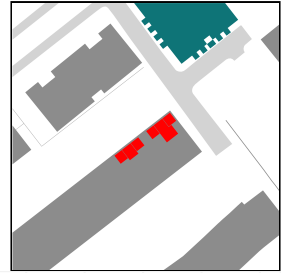
1 METRE GRID



| FLOOR         | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|---------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| LAMPWICK QUAY |      |               |          |               |            |            |          |        |
| F06           | R1   | RESIDENTIAL   | BEDROOM  | 10.7          | 94.7       | 94.7       | 0.0      | 0      |
| F06           | R2   | RESIDENTIAL   | LKD      | 30.2          | 97.2       | 97.2       | 0.0      | 0      |
| F06           | R3   | RESIDENTIAL   | BEDROOM  | 10.4          | 93.5       | 93.5       | 0.0      | 0      |
| F06           | R4   | RESIDENTIAL   | BEDROOM  | 10.7          | 94.9       | 94.9       | 0.0      | 0      |
| F06           | R5   | RESIDENTIAL   | LKD      | 15.7          | 99.8       | 99.8       | 0.0      | 0      |
| F06           | R6   | RESIDENTIAL   | BEDROOM  | 10.4          | 93.5       | 93.5       | 0.0      | 0      |

PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: LAMPWICK QUAY  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL15

KEY:  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID



F07

| FLOOR         | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|---------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| LAMPWICK QUAY |      |               |          |               |            |            |          |        |
| F07           | R1   | RESIDENTIAL   | BEDROOM  | 10.7          | 94.7       | 94.7       | 0.0      | 0      |
| F07           | R2   | RESIDENTIAL   | LKD      | 30.2          | 97.3       | 97.3       | 0.0      | 0      |
| F07           | R3   | RESIDENTIAL   | BEDROOM  | 10.4          | 93.5       | 93.5       | 0.0      | 0      |
| F07           | R4   | RESIDENTIAL   | BEDROOM  | 10.7          | 95         | 95         | 0.0      | 0      |
| F07           | R5   | RESIDENTIAL   | LKD      | 15.7          | 99.8       | 99.8       | 0.0      | 0      |
| F07           | R6   | RESIDENTIAL   | BEDROOM  | 10.4          | 93.4       | 93.4       | 0.0      | 0      |

# NSL CONTOURS



PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: WEAVERS QUAY  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL16

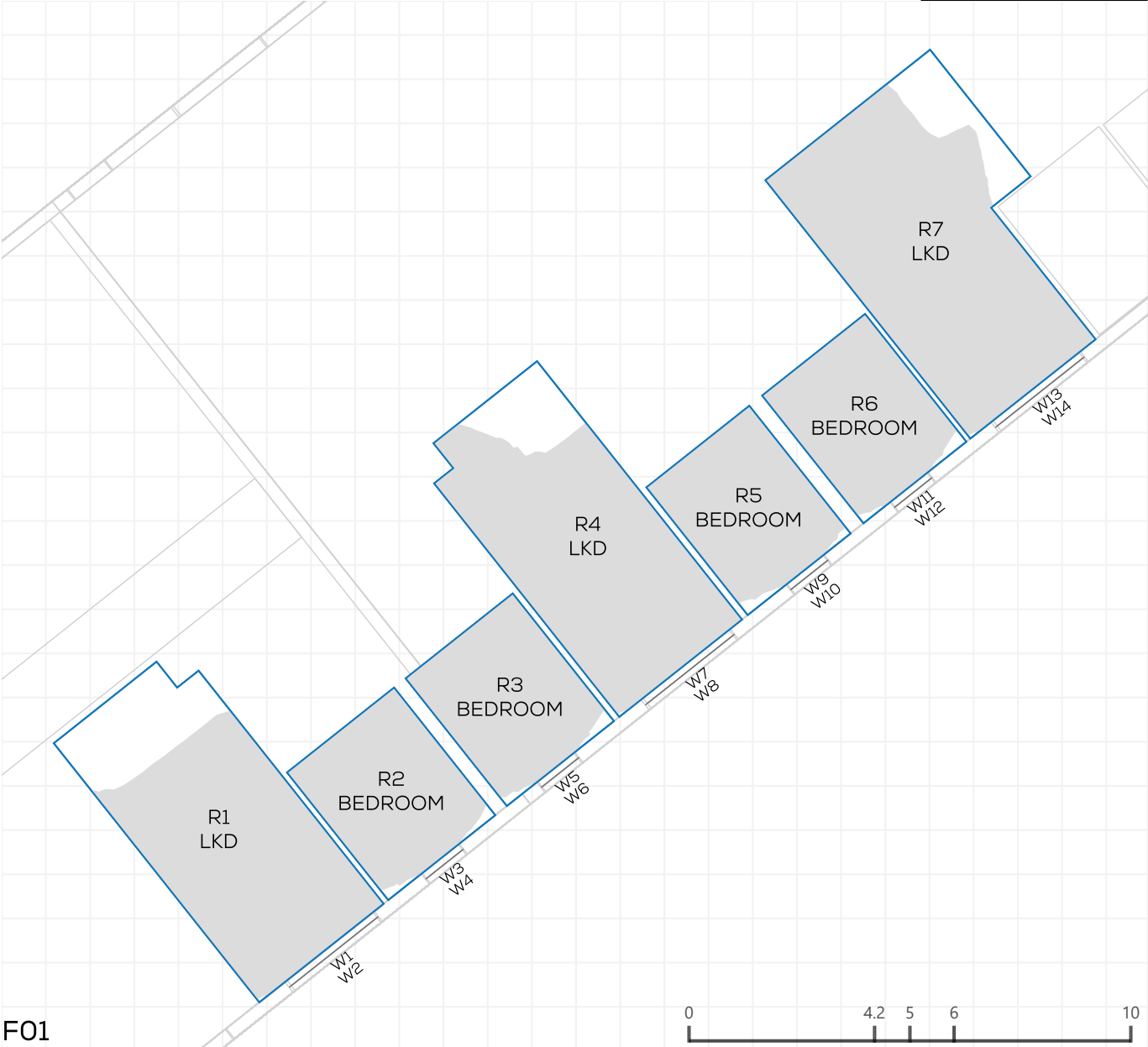
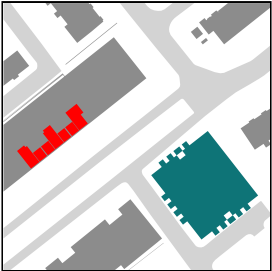
KEY:

GAIN

LOSS

MAINTAINED LIT AREA

1 METRE GRID

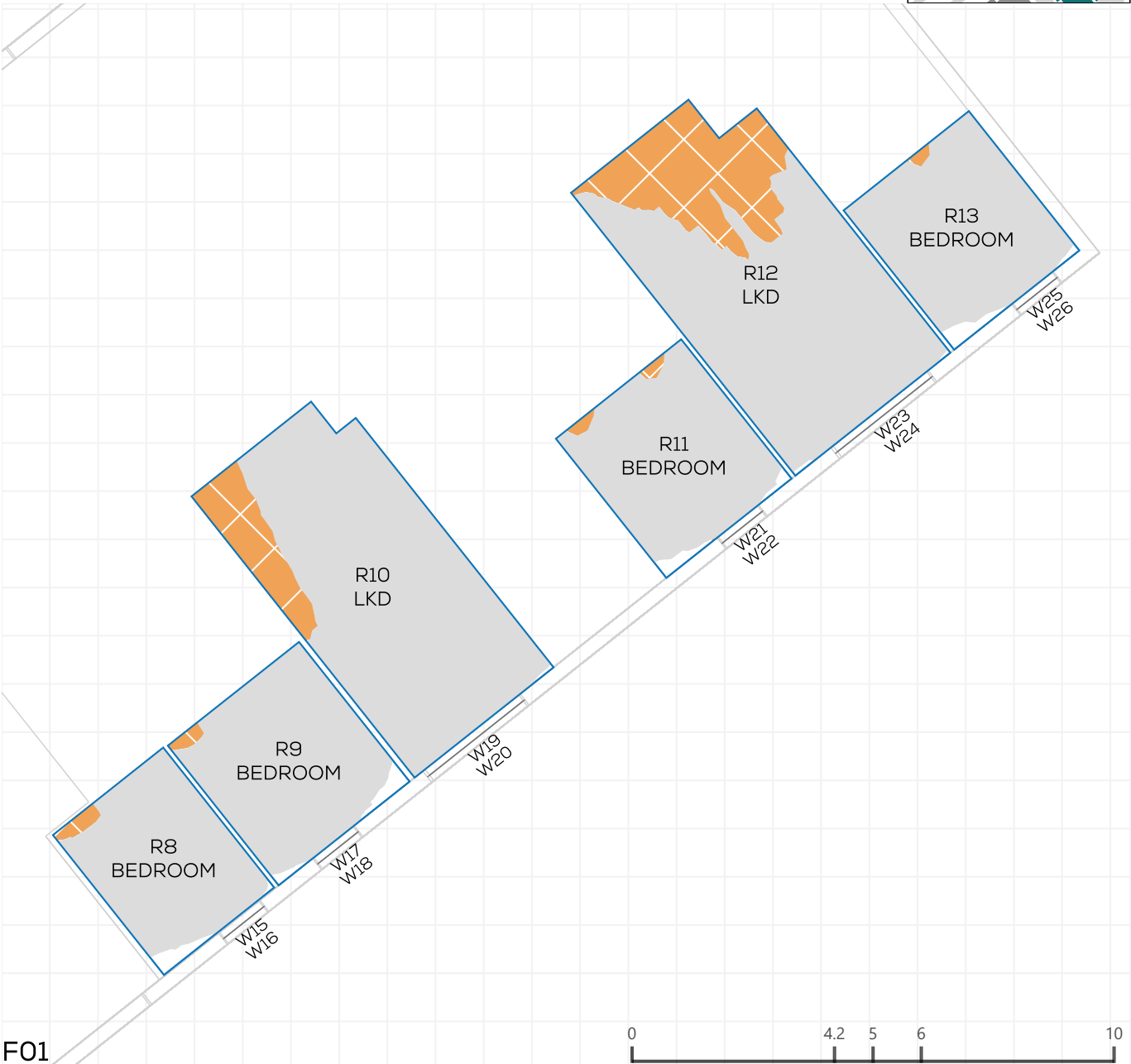
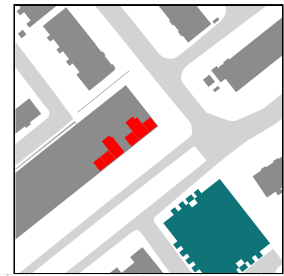


F01

| FLOOR        | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|--------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| WEAVERS QUAY |      |               |          |               |            |            |          |        |
| F01          | R1   | RESIDENTIAL   | LKD      | 26.4          | 78         | 78         | 0.0      | 0      |
| F01          | R2   | RESIDENTIAL   | BEDROOM  | 11.4          | 97.8       | 97.8       | 0.0      | 0      |
| F01          | R3   | RESIDENTIAL   | BEDROOM  | 11.4          | 97.6       | 97.6       | 0.0      | 0      |
| F01          | R4   | RESIDENTIAL   | LKD      | 26.1          | 88         | 88         | 0.0      | 0      |
| F01          | R5   | RESIDENTIAL   | BEDROOM  | 11.0          | 97.7       | 97.7       | 0.0      | 0      |
| F01          | R6   | RESIDENTIAL   | BEDROOM  | 11.0          | 97.8       | 97.8       | 0.0      | 0      |
| F01          | R7   | RESIDENTIAL   | LKD      | 31.2          | 89.1       | 89.1       | 0.0      | 0      |

PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: WEAVERS QUAY  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL17

KEY:  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID



F01

| FLOOR        | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|--------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| WEAVERS QUAY |      |               |          |               |            |            |          |        |
| F01          | R8   | RESIDENTIAL   | BEDROOM  | 10.8          | 96.7       | 93.8       | 0.3      | 3      |
| F01          | R9   | RESIDENTIAL   | BEDROOM  | 12.8          | 96.7       | 95.1       | 0.2      | 1.7    |
| F01          | R10  | RESIDENTIAL   | LKD      | 27.0          | 99.9       | 88.8       | 3.0      | 11.1   |
| F01          | R11  | RESIDENTIAL   | BEDROOM  | 12.2          | 97.1       | 94.8       | 0.3      | 2.4    |
| F01          | R12  | RESIDENTIAL   | LKD      | 29.7          | 99.8       | 74.5       | 7.5      | 25.4   |
| F01          | R13  | RESIDENTIAL   | BEDROOM  | 12.2          | 96.7       | 95.8       | 0.1      | 1      |

# NSL CONTOURS



PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: WEAVERS QUAY  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL18

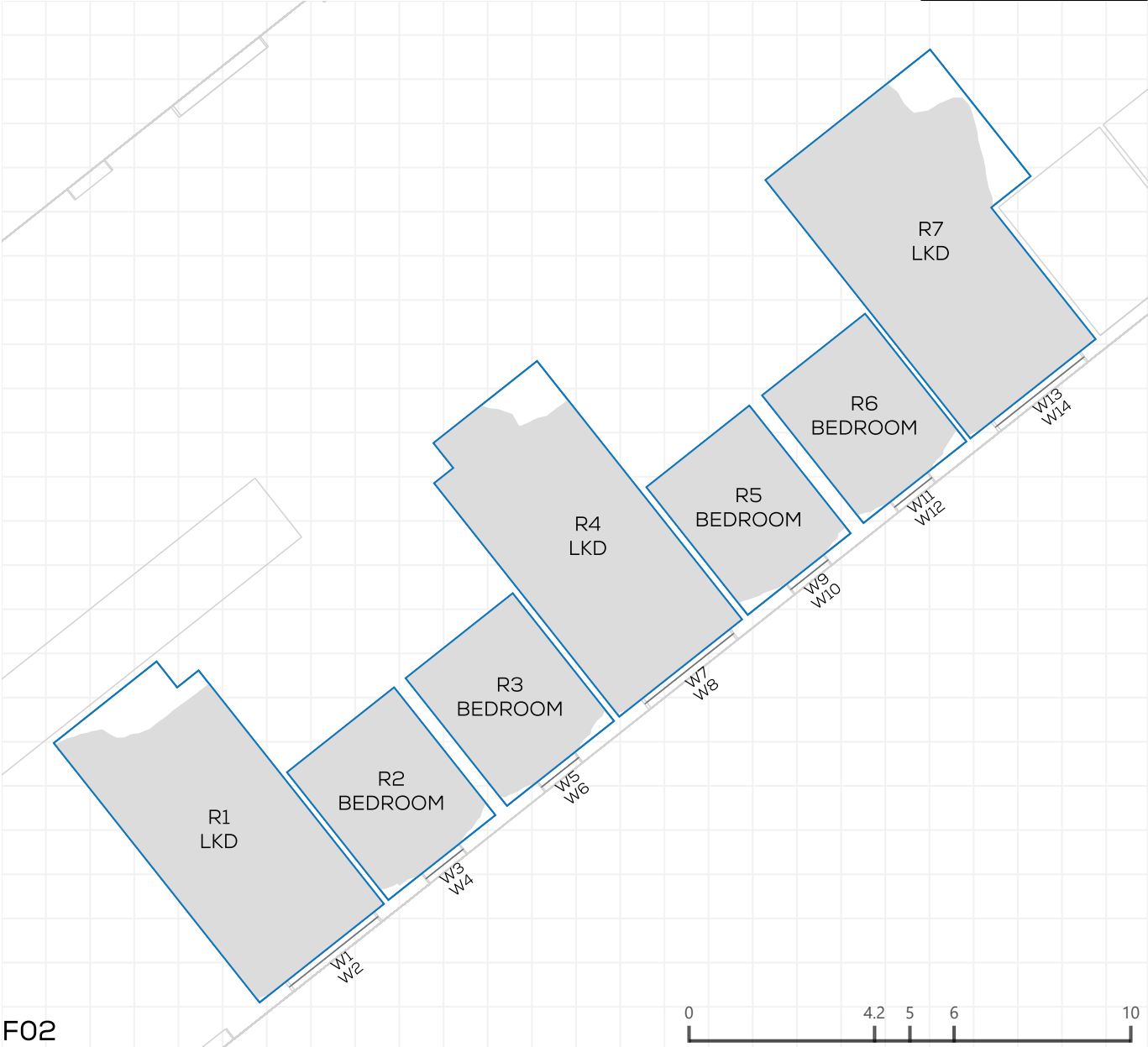
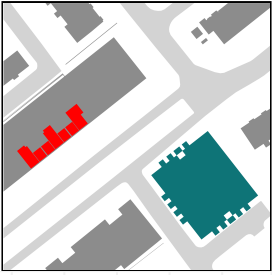
KEY:

GAIN

LOSS

MAINTAINED LIT AREA

1 METRE GRID

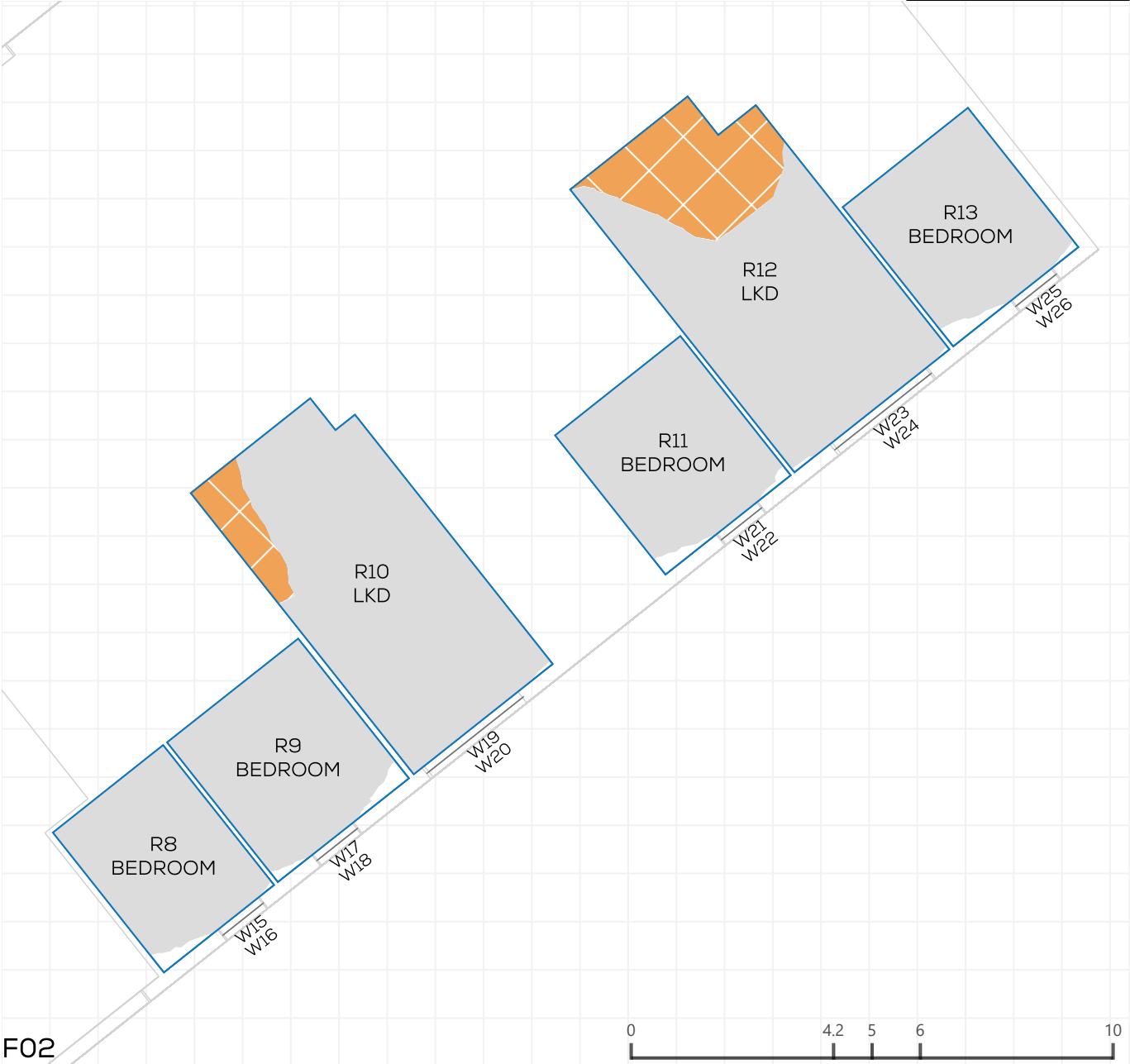
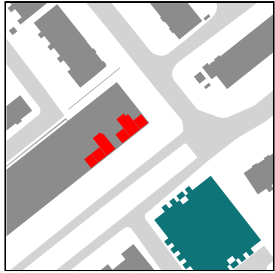


F02

| FLOOR        | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|--------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| WEAVERS QUAY |      |               |          |               |            |            |          |        |
| F02          | R1   | RESIDENTIAL   | LKD      | 26.4          | 90.8       | 90.8       | 0.0      | 0      |
| F02          | R2   | RESIDENTIAL   | BEDROOM  | 11.4          | 97.7       | 97.7       | 0.0      | 0      |
| F02          | R3   | RESIDENTIAL   | BEDROOM  | 11.4          | 97.7       | 97.7       | 0.0      | 0      |
| F02          | R4   | RESIDENTIAL   | LKD      | 26.1          | 94.6       | 94.6       | 0.0      | 0      |
| F02          | R5   | RESIDENTIAL   | BEDROOM  | 11.0          | 97.6       | 97.6       | 0.0      | 0      |
| F02          | R6   | RESIDENTIAL   | BEDROOM  | 11.0          | 97.7       | 97.7       | 0.0      | 0      |
| F02          | R7   | RESIDENTIAL   | LKD      | 31.2          | 91.8       | 91.8       | 0.0      | 0      |

PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: WEAVERS QUAY  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL19

KEY:  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID



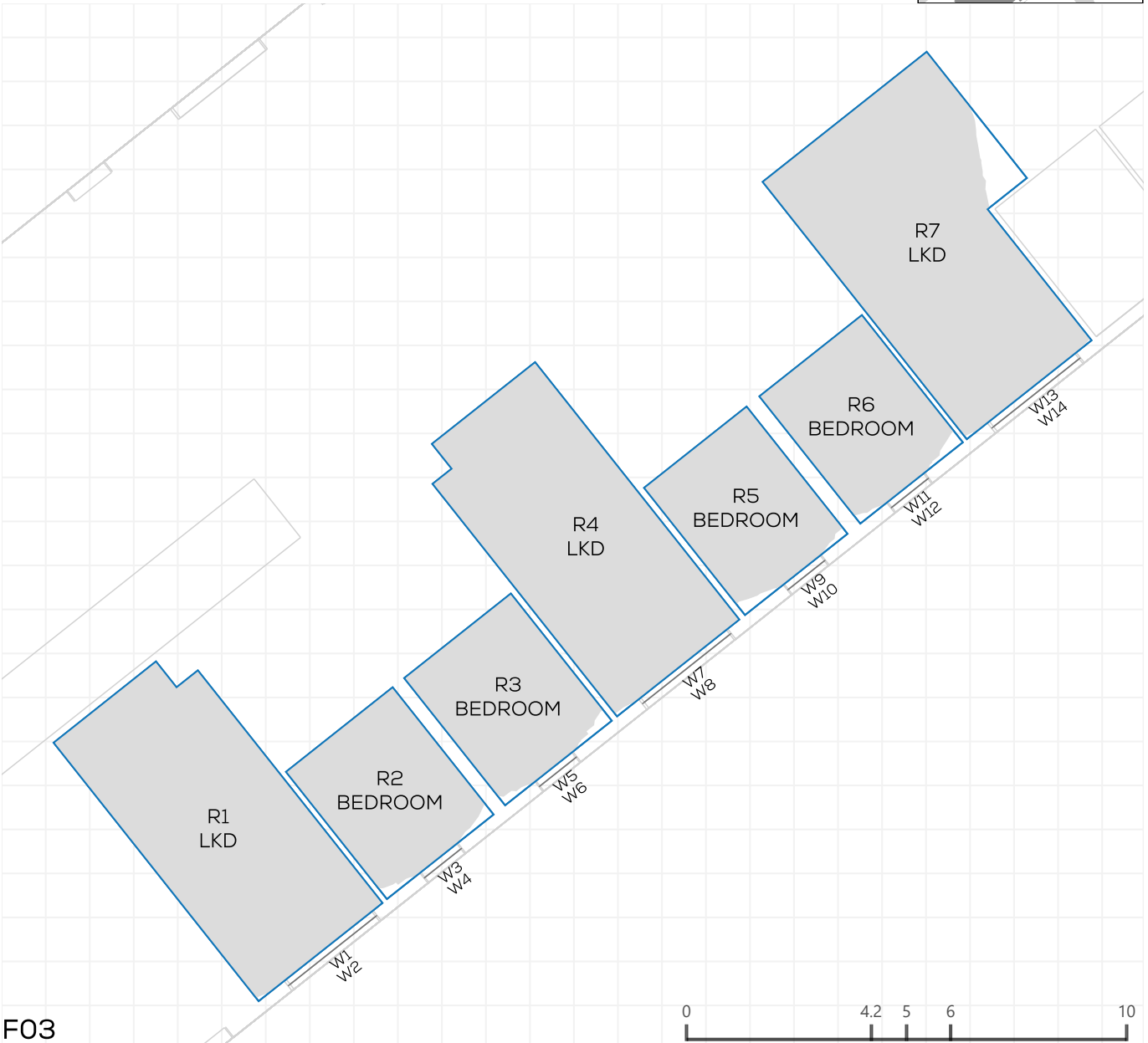
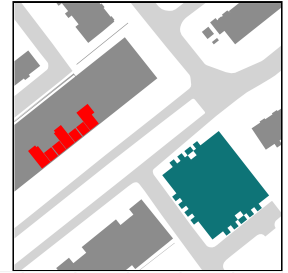
| FLOOR        | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|--------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| WEAVERS QUAY |      |               |          |               |            |            |          |        |
| F02          | R8   | RESIDENTIAL   | BEDROOM  | 10.8          | 97.2       | 97.2       | 0.0      | 0      |
| F02          | R9   | RESIDENTIAL   | BEDROOM  | 12.8          | 96.8       | 96.8       | 0.0      | 0      |
| F02          | R10  | RESIDENTIAL   | LKD      | 27.0          | 99.9       | 91.3       | 2.3      | 8.6    |
| F02          | R11  | RESIDENTIAL   | BEDROOM  | 12.2          | 97         | 97         | 0.0      | 0      |
| F02          | R12  | RESIDENTIAL   | LKD      | 29.7          | 99.8       | 75.2       | 7.3      | 24.7   |
| F02          | R13  | RESIDENTIAL   | BEDROOM  | 12.2          | 96.7       | 96.7       | 0.0      | 0      |

# NSL CONTOURS



PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: WEAVERS QUAY  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL20

KEY:  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID

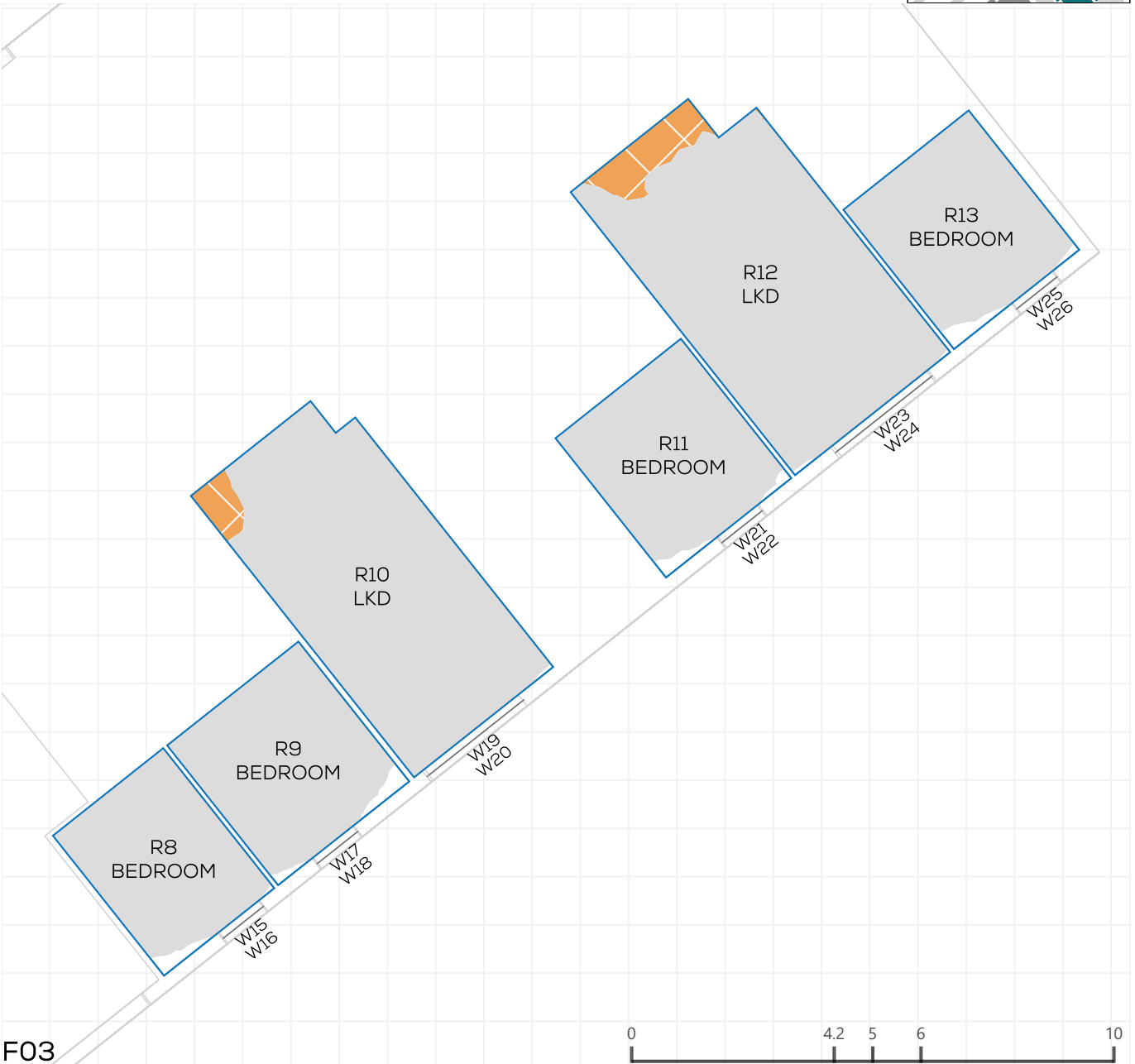
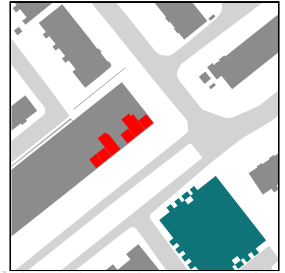


F03

| FLOOR        | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|--------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| WEAVERS QUAY |      |               |          |               |            |            |          |        |
| F03          | R1   | RESIDENTIAL   | LKD      | 26.4          | 99.9       | 99.9       | 0.0      | 0      |
| F03          | R2   | RESIDENTIAL   | BEDROOM  | 11.4          | 97.7       | 97.7       | 0.0      | 0      |
| F03          | R3   | RESIDENTIAL   | BEDROOM  | 11.4          | 97.6       | 97.6       | 0.0      | 0      |
| F03          | R4   | RESIDENTIAL   | LKD      | 26.1          | 99.9       | 99.9       | 0.0      | 0      |
| F03          | R5   | RESIDENTIAL   | BEDROOM  | 11.0          | 97.7       | 97.7       | 0.0      | 0      |
| F03          | R6   | RESIDENTIAL   | BEDROOM  | 11.0          | 97.8       | 97.8       | 0.0      | 0      |
| F03          | R7   | RESIDENTIAL   | LKD      | 31.2          | 96.4       | 96.4       | 0.0      | 0      |

PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: WEAVERS QUAY  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL21

KEY:  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID



F03

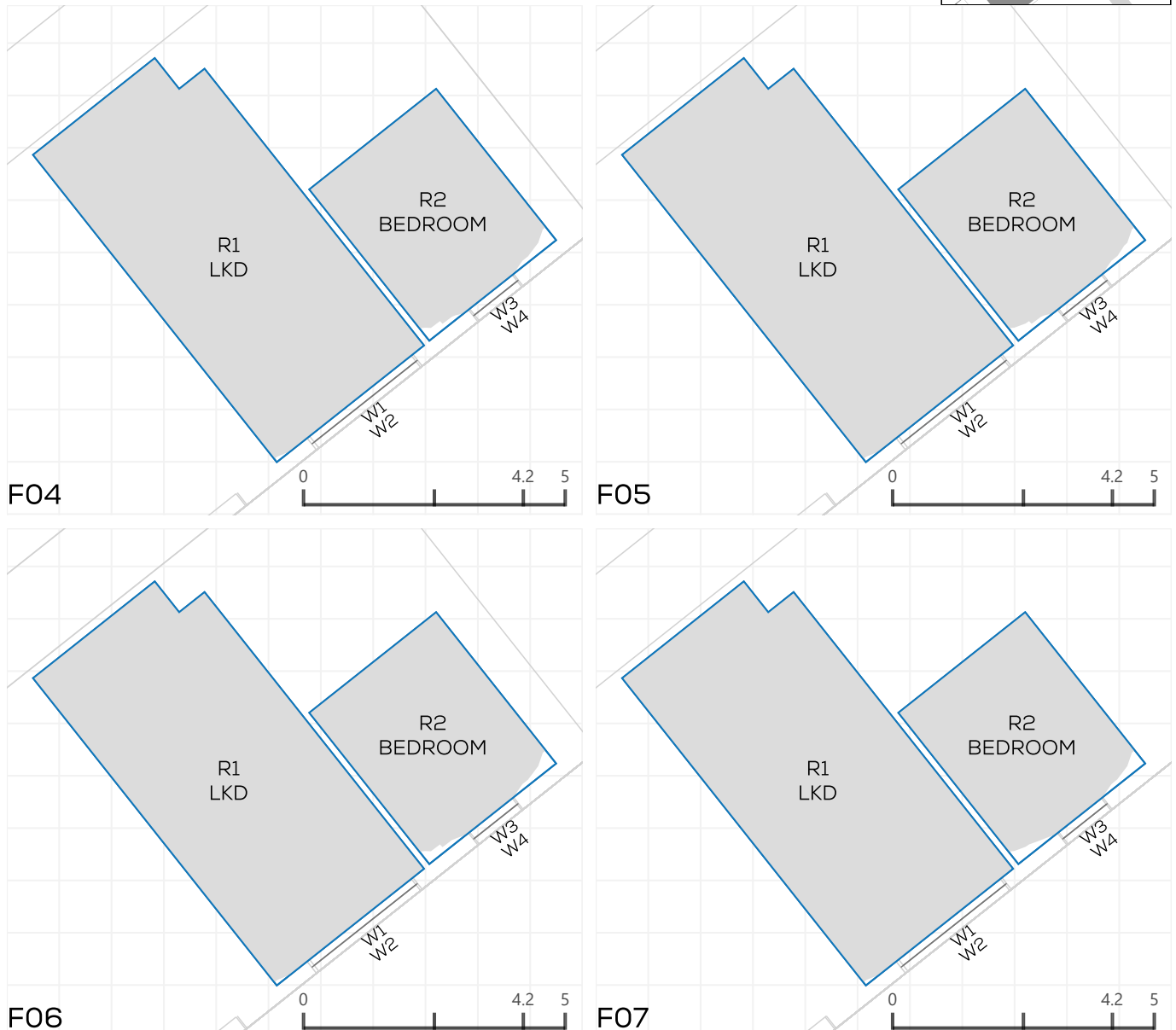
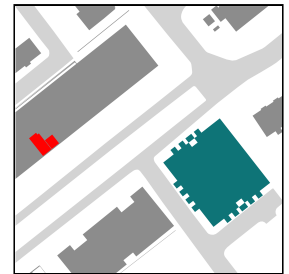
| FLOOR        | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|--------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| WEAVERS QUAY |      |               |          |               |            |            |          |        |
| F03          | R8   | RESIDENTIAL   | BEDROOM  | 10.8          | 97.2       | 97.2       | 0.0      | 0      |
| F03          | R9   | RESIDENTIAL   | BEDROOM  | 12.8          | 96.7       | 96.7       | 0.0      | 0      |
| F03          | R10  | RESIDENTIAL   | LKD      | 27.0          | 99.9       | 96.6       | 0.9      | 3.3    |
| F03          | R11  | RESIDENTIAL   | BEDROOM  | 12.2          | 97.1       | 97.1       | 0.0      | 0      |
| F03          | R12  | RESIDENTIAL   | LKD      | 29.7          | 99.8       | 92.8       | 2.1      | 7      |
| F03          | R13  | RESIDENTIAL   | BEDROOM  | 12.2          | 96.8       | 96.8       | 0.0      | 0      |

# NSL CONTOURS



PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
 REPORT TITLE: EXISTING VS. PROPOSED  
 ADDRESS: WEAVERS QUAY  
 DATE: 08/11/2023  
 SCHEME IR: IR08  
 DRAWING No.: 0536-REL03-IS01-NSL22

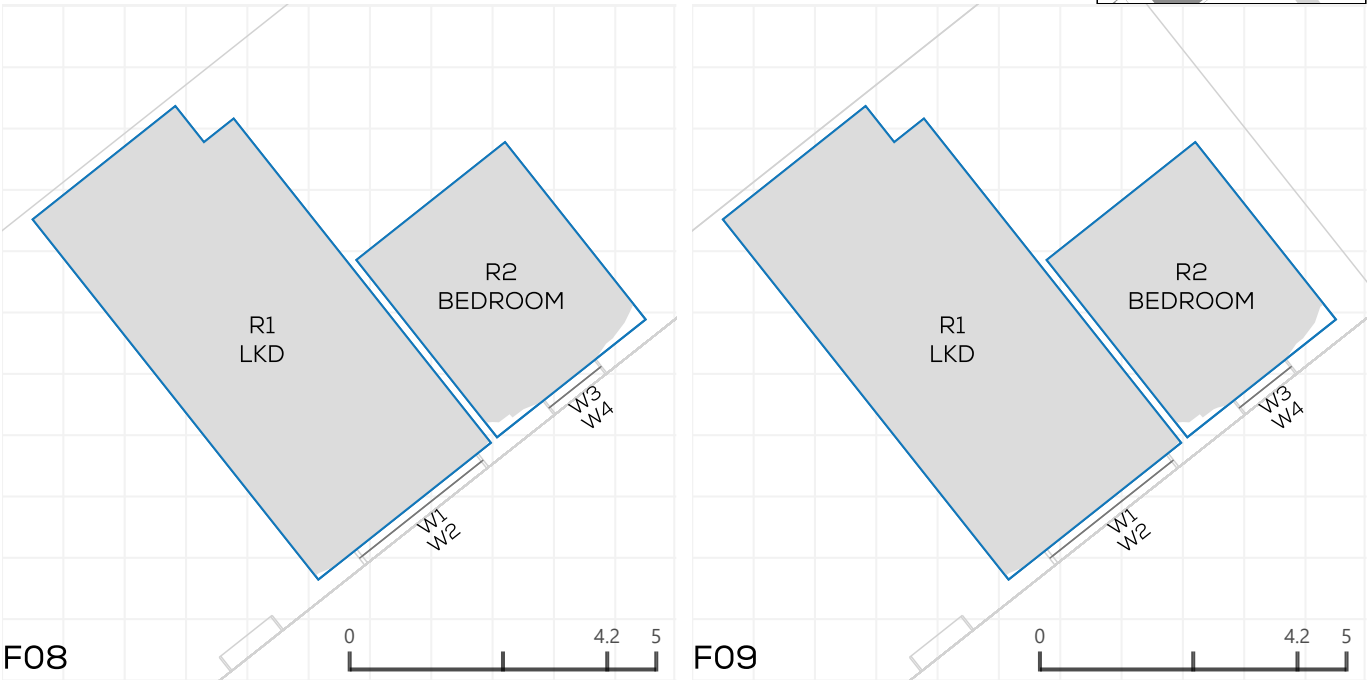
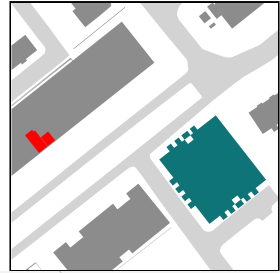
KEY:  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID



| FLOOR        | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|--------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| WEAVERS QUAY |      |               |          |               |            |            |          |        |
| F04          | R1   | RESIDENTIAL   | LKD      | 26.4          | 99.9       | 99.9       | 0.0      | 0      |
| F04          | R2   | RESIDENTIAL   | BEDROOM  | 11.4          | 97.7       | 97.7       | 0.0      | 0      |
| F05          | R1   | RESIDENTIAL   | LKD      | 26.4          | 99.9       | 99.9       | 0.0      | 0      |
| F05          | R2   | RESIDENTIAL   | BEDROOM  | 11.4          | 97.7       | 97.7       | 0.0      | 0      |
| F06          | R1   | RESIDENTIAL   | LKD      | 26.4          | 99.9       | 99.9       | 0.0      | 0      |
| F06          | R2   | RESIDENTIAL   | BEDROOM  | 11.4          | 97.7       | 97.7       | 0.0      | 0      |
| F07          | R1   | RESIDENTIAL   | LKD      | 26.4          | 99.9       | 99.9       | 0.0      | 0      |
| F07          | R2   | RESIDENTIAL   | BEDROOM  | 11.4          | 97.6       | 97.6       | 0.0      | 0      |

PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: WEAVERS QUAY  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL23

KEY:  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID



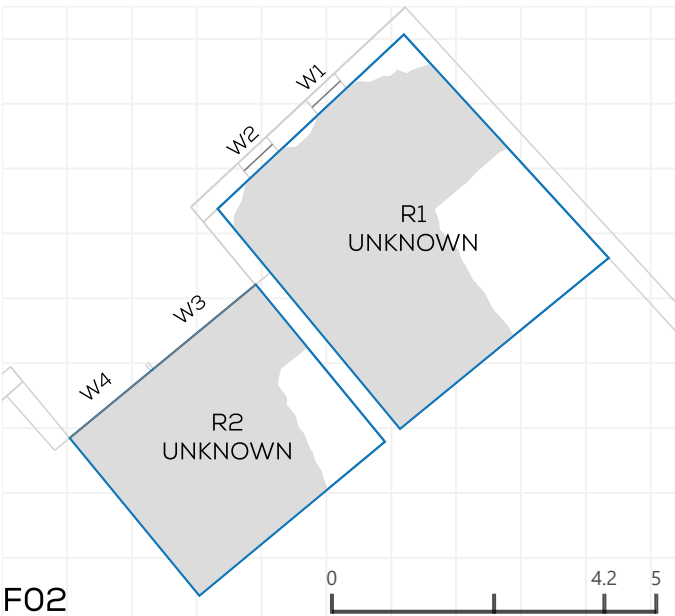
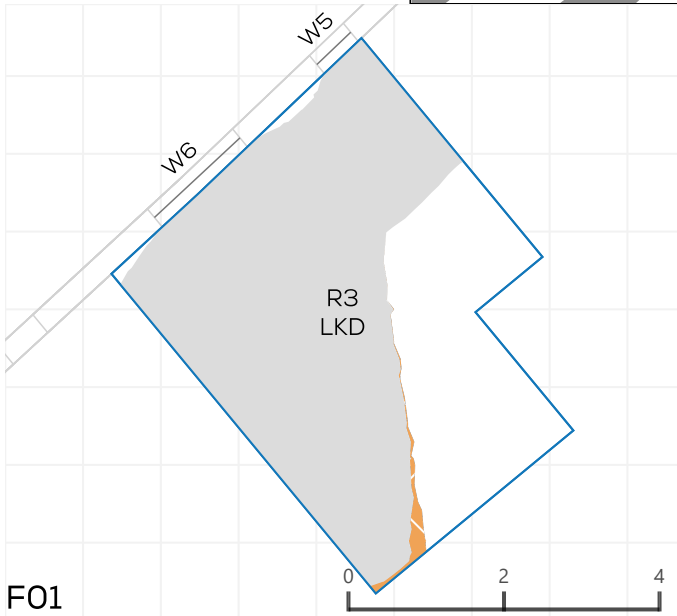
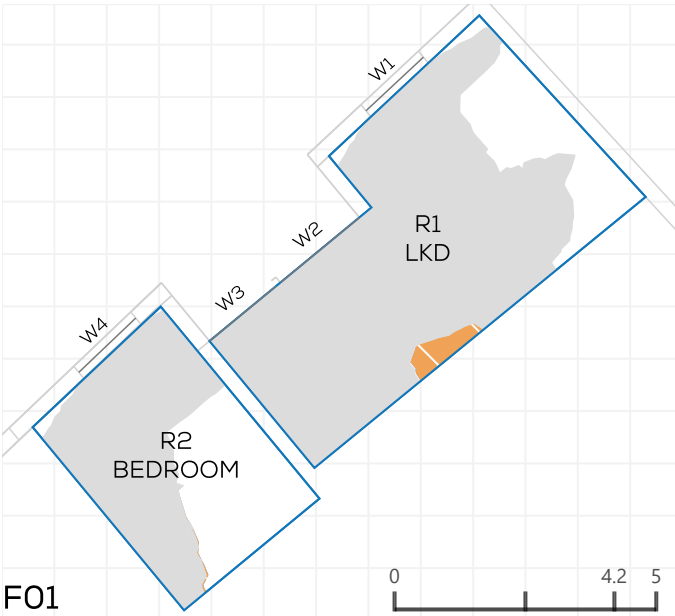
| FLOOR        | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|--------------|------|---------------|----------|---------------|------------|------------|----------|--------|
| WEAVERS QUAY |      |               |          |               |            |            |          |        |
| F08          | R1   | RESIDENTIAL   | LKD      | 26.4          | 99.9       | 99.9       | 0.0      | 0      |
| F08          | R2   | RESIDENTIAL   | BEDROOM  | 11.4          | 97.8       | 97.8       | 0.0      | 0      |
| F09          | R1   | RESIDENTIAL   | LKD      | 26.4          | 99.9       | 99.9       | 0.0      | 0      |
| F09          | R2   | RESIDENTIAL   | BEDROOM  | 11.4          | 97.7       | 97.7       | 0.0      | 0      |

# NSL CONTOURS



PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
 REPORT TITLE: EXISTING VS. PROPOSED  
 ADDRESS: CHIPS  
 DATE: 08/11/2023  
 SCHEME IR: IR08  
 DRAWING No.: 0536-REL03-IS01-NSL24

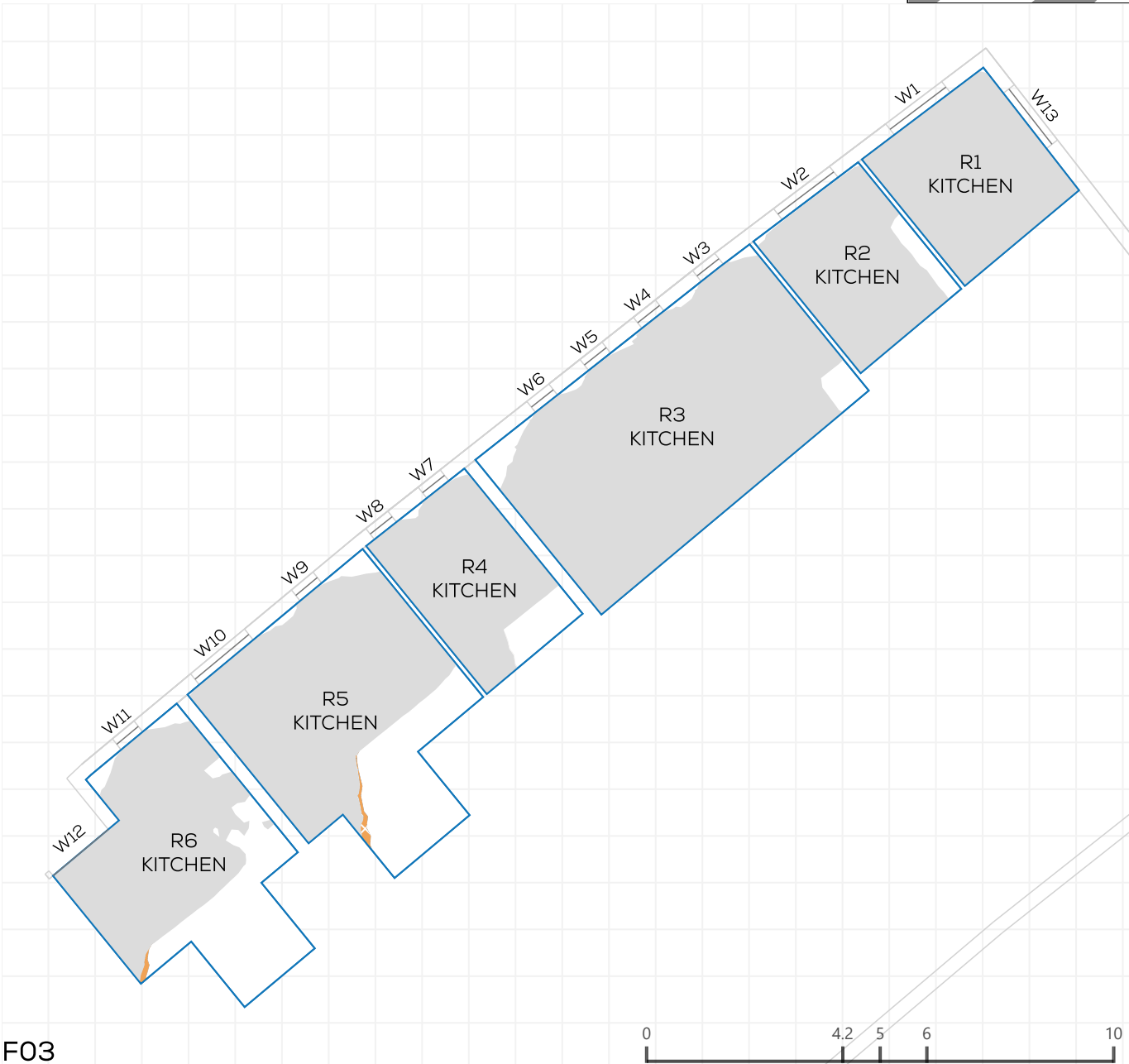
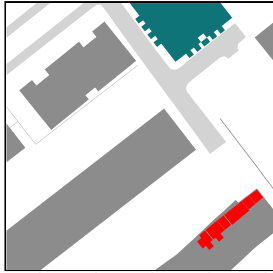
KEY:  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID



| FLOOR | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|-------|------|---------------|----------|---------------|------------|------------|----------|--------|
| CHIPS |      |               |          |               |            |            |          |        |
| F01   | R1   | RESIDENTIAL   | LKD      | 31.1          | 82.7       | 80.8       | 0.6      | 2.3    |
| F01   | R2   | RESIDENTIAL   | BEDROOM  | 15.6          | 61         | 60.8       | 0.0      | 0.4    |
| F01   | R3   | RESIDENTIAL   | LKD      | 21.9          | 69.2       | 68.2       | 0.2      | 1.4    |
| F02   | R1   | RESIDENTIAL   | UNKNOWN  | 18.3          | 75.5       | 75.5       | 0.0      | 0      |
| F02   | R2   | RESIDENTIAL   | UNKNOWN  | 11.7          | 85.7       | 85.7       | 0.0      | 0      |
| F02   | R3   | RESIDENTIAL   | UNKNOWN  | 16.2          | 66.8       | 66.7       | 0.0      | 0.1    |
| F02   | R4   | RESIDENTIAL   | KITCHEN  | 22.4          | 72.4       | 72.3       | 0.0      | 0.3    |

PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: CHIPS  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL25

KEY:  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID

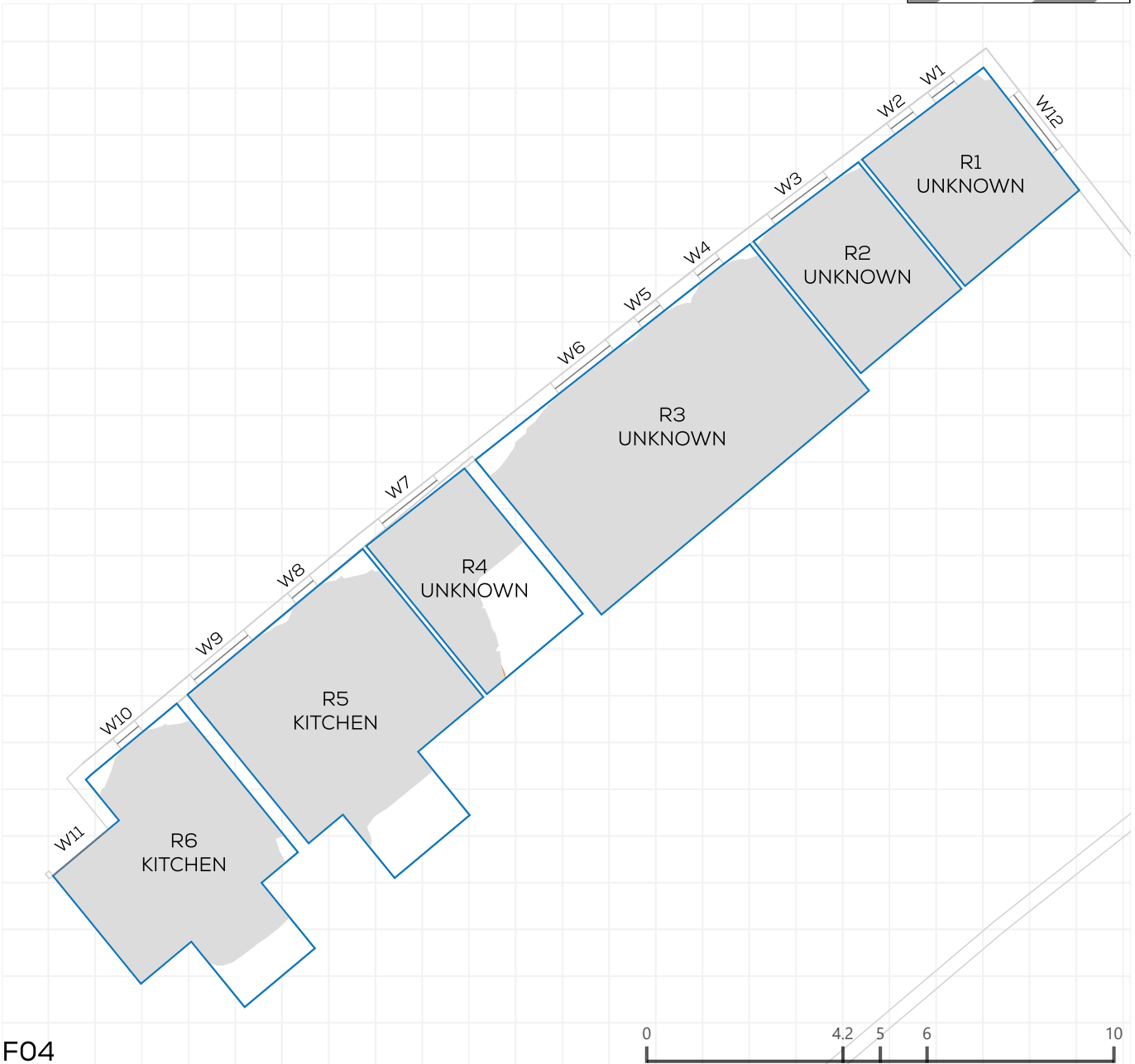
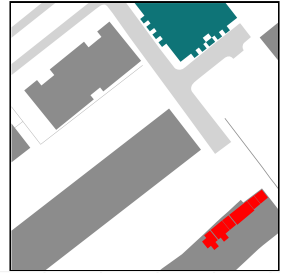


F03

| FLOOR | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|-------|------|---------------|----------|---------------|------------|------------|----------|--------|
| CHIPS |      |               |          |               |            |            |          |        |
| F03   | R1   | RESIDENTIAL   | KITCHEN  | 11.0          | 99.9       | 99.9       | 0.0      | 0      |
| F03   | R2   | RESIDENTIAL   | KITCHEN  | 10.0          | 91.7       | 91.7       | 0.0      | 0      |
| F03   | R3   | RESIDENTIAL   | KITCHEN  | 31.1          | 94.9       | 94.9       | 0.0      | 0      |
| F03   | R4   | RESIDENTIAL   | KITCHEN  | 10.8          | 86.6       | 86.6       | 0.0      | 0      |
| F03   | R5   | RESIDENTIAL   | KITCHEN  | 23.6          | 73.1       | 72.5       | 0.1      | 0.8    |
| F03   | R6   | RESIDENTIAL   | KITCHEN  | 19.5          | 64.9       | 64.6       | 0.1      | 0.5    |

PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: CHIPS  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL26

KEY:  
 GAIN  
 LOSS  
 MAINTAINED LIT AREA  
 1 METRE GRID



F04



| FLOOR | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|-------|------|---------------|----------|---------------|------------|------------|----------|--------|
| CHIPS |      |               |          |               |            |            |          |        |
| F04   | R1   | RESIDENTIAL   | UNKNOWN  | 11.0          | 99.6       | 99.6       | 0.0      | 0      |
| F04   | R2   | RESIDENTIAL   | UNKNOWN  | 10.0          | 99.3       | 99.3       | 0.0      | 0      |
| F04   | R3   | RESIDENTIAL   | UNKNOWN  | 31.1          | 97.5       | 97.5       | 0.0      | 0      |
| F04   | R4   | RESIDENTIAL   | UNKNOWN  | 10.8          | 68.2       | 68.1       | 0.0      | 0.1    |
| F04   | R5   | RESIDENTIAL   | KITCHEN  | 23.6          | 87.5       | 87.5       | 0.0      | 0      |
| F04   | R6   | RESIDENTIAL   | KITCHEN  | 19.5          | 88.1       | 88.1       | 0.0      | 0      |

PROJECT: 0536 - UPPER KIRBY STREET, MANCHES  
REPORT TITLE: EXISTING VS. PROPOSED  
ADDRESS: CHIPS  
DATE: 08/11/2023  
SCHEME IR: IR08  
DRAWING No.: 0536-REL03-IS01-NSL27

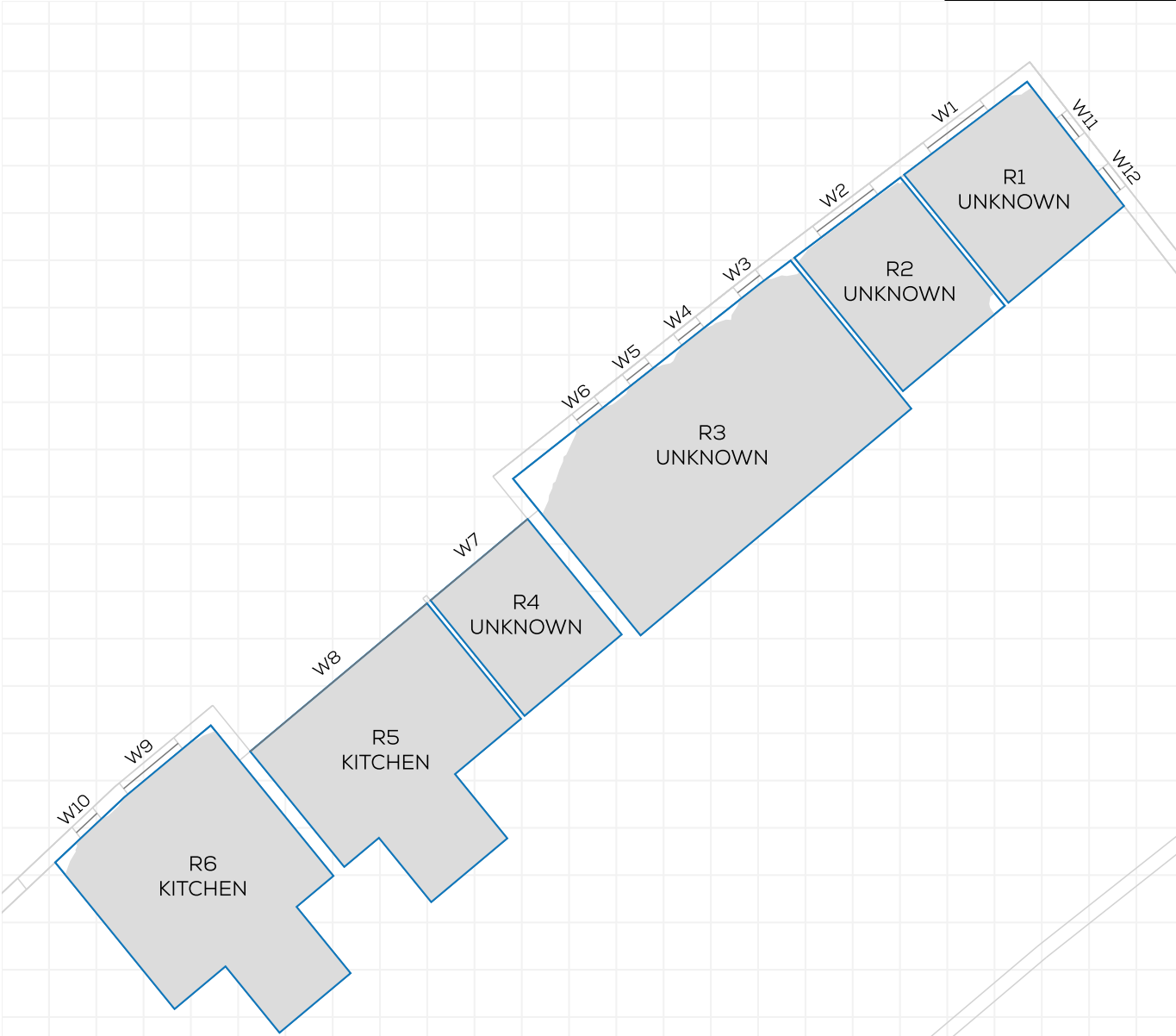
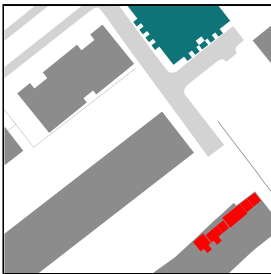
KEY:

GAIN

LOSS

MAINTAINED LIT AREA

1 METRE GRID



F05



| FLOOR | ROOM | PROPERTY TYPE | ROOM USE | ROOM AREA-sqm | EXISTING % | PROPOSED % | LOSS-sqm | LOSS % |
|-------|------|---------------|----------|---------------|------------|------------|----------|--------|
| CHIPS |      |               |          |               |            |            |          |        |
| F05   | R1   | RESIDENTIAL   | UNKNOWN  | 11.0          | 99.5       | 99.5       | 0.0      | 0      |
| F05   | R2   | RESIDENTIAL   | UNKNOWN  | 10.0          | 98.1       | 98.1       | 0.0      | 0      |
| F05   | R3   | RESIDENTIAL   | UNKNOWN  | 31.1          | 96.3       | 96.3       | 0.0      | 0      |
| F05   | R4   | RESIDENTIAL   | UNKNOWN  | 8.4           | 100        | 100        | 0.0      | 0      |
| F05   | R5   | RESIDENTIAL   | KITCHEN  | 19.0          | 100        | 100        | 0.0      | 0      |
| F05   | R6   | RESIDENTIAL   | KITCHEN  | 21.4          | 99.2       | 99.2       | 0.0      | 0      |

APPENDIX 03  
RESULTS & CONTOURS:

# APSH

| FLOOR              | ROOM | PROPERTY TYPE | ROOM USE    | WINDOW  | EXISTING (R) |        | PROPOSED (R) |        | % LOSS (R) |        | MEETS CRITERIA (R) |
|--------------------|------|---------------|-------------|---------|--------------|--------|--------------|--------|------------|--------|--------------------|
|                    |      |               |             |         | ANNUAL       | WINTER | ANNUAL       | WINTER | ANNUAL     | WINTER |                    |
| 88 OLD MILL STREET |      |               |             |         |              |        |              |        |            |        |                    |
| F00                | R3   | Residential   | Unknown     | W3/F00  | 58           | 12     | 36           | 4      | 37.9       | 66.7   | NO                 |
| F01                | R3   | Residential   | Unknown     | W3/F01  | 48           | 13     | 36           | 5      | 25         | 61.5   | YES                |
|                    | R4   | Residential   | Unknown     | W4/F01  | 49           | 14     | 44           | 10     | 10.2       | 28.6   | YES                |
| 2 TAVERY CL        |      |               |             |         |              |        |              |        |            |        |                    |
| F00                | R1   | Residential   | Unknown     | W1/F00  | 41           | 19     | 36           | 14     | 12.2       | 26.3   | YES                |
|                    |      |               |             | W2/F00  |              |        |              |        |            |        |                    |
| F02                | R1   | Residential   | Unknown     | W1/F02  | 70           | 23     | 65           | 18     | 7.1        | 21.7   | YES                |
| 4 TAVERY CL        |      |               |             |         |              |        |              |        |            |        |                    |
| F00                | R1   | Residential   | Unknown     | W1/F00  | 71           | 23     | 66           | 18     | 7          | 21.7   | YES                |
|                    |      |               |             | W2/F00  |              |        |              |        |            |        |                    |
| F01                | R1   | Residential   | Unknown     | W1/F01  | 68           | 24     | 63           | 19     | 7.4        | 20.8   | YES                |
| 7 WEYBRIDGE ROAD   |      |               |             |         |              |        |              |        |            |        |                    |
| F00                | R1   | Residential   | Unknown     | W1/F00  | 13           | 0      | 13           | 0      | 0          | 0      | YES                |
| F01                | R1   | Residential   | Unknown     | W1/F01  | 34           | 0      | 34           | 0      | 0          | 0      | YES                |
|                    | R2   | Residential   | Unknown     | W2/F01  | 20           | 0      | 20           | 0      | 0          | 0      | YES                |
| 2 WEYBRIDGE RD     |      |               |             |         |              |        |              |        |            |        |                    |
| F00                | R1   | Residential   | Unknown     | W1/F00  | 65           | 17     | 61           | 13     | 6.2        | 23.5   | YES                |
|                    | R2   | Residential   | Living Room | W2/F00  | 65           | 17     | 60           | 12     | 7.7        | 29.4   | YES                |
| F01                | R1   | Residential   | Unknown     | W1/F01  | 70           | 21     | 67           | 18     | 4.3        | 14.3   | YES                |
|                    | R3   | Residential   | Unknown     | W3/F01  | 49           | 15     | 46           | 12     | 6.1        | 20     | YES                |
| 4 WEYBRIDGE RD     |      |               |             |         |              |        |              |        |            |        |                    |
| F00                | R1   | Residential   | Living Room | W1/F00  | 58           | 13     | 55           | 10     | 5.2        | 23.1   | YES                |
| F01                | R2   | Residential   | Unknown     | W2/F01  | 49           | 15     | 47           | 13     | 4.1        | 13.3   | YES                |
| WEAVERS QUAY       |      |               |             |         |              |        |              |        |            |        |                    |
| F01                | R1   | Residential   | LKD         | W1/F01  | 64           | 15     | 62           | 15     | 3.1        | 0      | YES                |
|                    |      |               |             | W2/F01  |              |        |              |        |            |        |                    |
|                    | R4   | Residential   | LKD         | W7/F01  | 65           | 16     | 63           | 16     | 3.1        | 0      | YES                |
|                    |      |               |             | W8/F01  |              |        |              |        |            |        |                    |
|                    | R7   | Residential   | LKD         | W13/F01 | 70           | 21     | 67           | 19     | 4.3        | 9.5    | YES                |
|                    |      |               |             | W14/F01 |              |        |              |        |            |        |                    |
|                    | R10  | Residential   | LKD         | W19/F01 | 71           | 22     | 66           | 18     | 7          | 18.2   | YES                |
|                    |      |               |             | W20/F01 |              |        |              |        |            |        |                    |
|                    | R12  | Residential   | LKD         | W23/F01 | 73           | 23     | 67           | 17     | 8.2        | 26.1   | YES                |
|                    |      |               |             | W24/F01 |              |        |              |        |            |        |                    |
| F02                | R1   | Residential   | LKD         | W1/F02  | 69           | 19     | 67           | 19     | 2.9        | 0      | YES                |
|                    |      |               |             | W2/F02  |              |        |              |        |            |        |                    |
|                    | R4   | Residential   | LKD         | W7/F02  | 68           | 18     | 66           | 18     | 2.9        | 0      | YES                |
|                    |      |               |             | W8/F02  |              |        |              |        |            |        |                    |
|                    | R7   | Residential   | LKD         | W13/F02 | 72           | 22     | 69           | 20     | 4.2        | 9.1    | YES                |
|                    |      |               |             | W14/F02 |              |        |              |        |            |        |                    |

08/11/2022 10:25:12

| DELEGATION SCHEMATIC 1 |     |             |     |         |    |    |    |    |     |      |     |
|------------------------|-----|-------------|-----|---------|----|----|----|----|-----|------|-----|
|                        | R10 | Residential | LKD | W19/F02 | 72 | 22 | 69 | 19 | 4.2 | 13.6 | YES |
|                        |     |             |     | W20/F02 |    |    |    |    |     |      |     |
|                        | R12 | Residential | LKD | W23/F02 | 74 | 24 | 69 | 19 | 6.8 | 20.8 | YES |
|                        |     |             |     | W24/F02 |    |    |    |    |     |      |     |
| F03                    | R1  | Residential | LKD | W1/F03  | 75 | 25 | 74 | 25 | 1.3 | 0    | YES |
|                        |     |             |     | W2/F03  |    |    |    |    |     |      |     |
|                        | R4  | Residential | LKD | W7/F03  | 74 | 24 | 73 | 24 | 1.4 | 0    | YES |
|                        |     |             |     | W8/F03  |    |    |    |    |     |      |     |
|                        | R7  | Residential | LKD | W13/F03 | 75 | 25 | 74 | 25 | 1.3 | 0    | YES |
|                        |     |             |     | W14/F03 |    |    |    |    |     |      |     |
|                        | R10 | Residential | LKD | W19/F03 | 74 | 24 | 74 | 24 | 0   | 0    | YES |
|                        |     |             |     | W20/F03 |    |    |    |    |     |      |     |
|                        | R12 | Residential | LKD | W23/F03 | 75 | 25 | 73 | 23 | 2.7 | 8    | YES |
|                        |     |             |     | W24/F03 |    |    |    |    |     |      |     |
| F04                    | R1  | Residential | LKD | W1/F04  | 77 | 27 | 77 | 27 | 0   | 0    | YES |
|                        |     |             |     | W2/F04  |    |    |    |    |     |      |     |
| F05                    | R1  | Residential | LKD | W1/F05  | 78 | 28 | 78 | 28 | 0   | 0    | YES |
|                        |     |             |     | W2/F05  |    |    |    |    |     |      |     |
| F06                    | R1  | Residential | LKD | W1/F06  | 78 | 28 | 78 | 28 | 0   | 0    | YES |
|                        |     |             |     | W2/F06  |    |    |    |    |     |      |     |
| F07                    | R1  | Residential | LKD | W1/F07  | 78 | 28 | 78 | 28 | 0   | 0    | YES |
|                        |     |             |     | W2/F07  |    |    |    |    |     |      |     |
| F08                    | R1  | Residential | LKD | W1/F08  | 78 | 28 | 78 | 28 | 0   | 0    | YES |
|                        |     |             |     | W2/F08  |    |    |    |    |     |      |     |
| F09                    | R1  | Residential | LKD | W1/F09  | 78 | 28 | 78 | 28 | 0   | 0    | YES |
|                        |     |             |     | W2/F09  |    |    |    |    |     |      |     |



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