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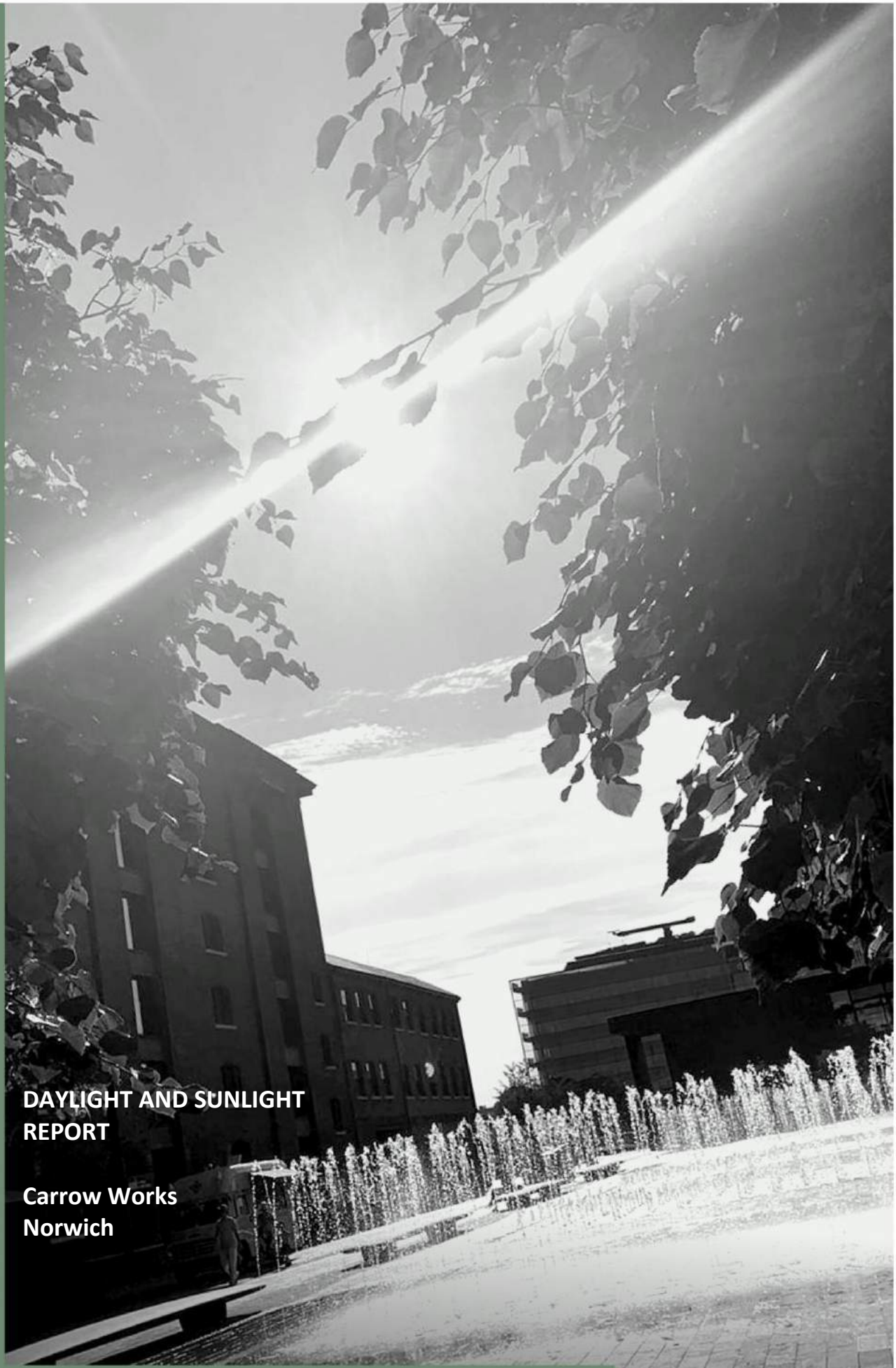

# DAYLIGHT AND SUNLIGHT REPORT

## Carrow Works
## Norwich

| | |
|---|---|
| Client<br>Fuel Properties | Dated<br>6 July 2022 |
| Prepared by<br>James Williamson | Version<br>1 |

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**Appendices**

## 1 INSTRUCTIONS AND BRIEF

1.1 In accordance with your instructions, we have analysed the effect that the proposed development known as the Carrow Works (the 'development') will have on the daylight and sunlight amenity to the neighbouring properties.

1.2 The application is seeking outline planning permission for the development and we have been provided with Parameter Massing and Illustrative Massing models for the proposed scheme. Our assessment focuses on the effect that the Illustrative Massing would have on the neighbouring properties as this provides a more realistic future scenario and more accurately represents the scale of massing that will ultimately be delivered. The Parameter Massing provides flexibility for the designers and it is not anticipated that the Parameter Massing would be constructed to its full extent. Therefore, our conclusions are based upon the effect that the Illustrative Massing would have.

1.3 We have also considered the potential for adequate light to be received to the proposed residential accommodation within the development based upon the Illustrative Massing.

1.4 We have received the following documents and used them in preparing this report:

- JTP Studios Proposed Parameter Massing and Illustrative Massing Models;
- JTP Studios Proposed Parameter Plans;
- Z-Mapping Photogrammetric Model of the site and surrounding buildings.

1.5 Our study has been undertaken by preparing a three-dimensional computer model of the site and surrounding buildings and analysing the effect of the development on the daylight and sunlight levels received by the neighbouring buildings using our bespoke software. Our assessment is based on a visual inspection, the information detailed above and estimates of relevant distances, dimensions and levels which are as accurate as the circumstances allow.

## 2 THE DEVELOPMENT SITE

2.1 The site is bound by the River Wensum to the north, King Street and Bracondale to the west and south and finally, by the railway to the east. The site was formerly known as the Carrow Works and was occupied by Colman's until 2020, it forms part of the East Norwich masterplan.

2.2 The development comprises a residential led, mixed use scheme that will provide approximately 1,800 homes and apartments.

2.3 On the north side of the River Wensum are a series of apartment blocks which have been constructed over the past 10 years or so, with the final block currently under construction. These buildings range in height from 6 to 10 storeys and many apartments have southerly aspects over the site.

2.4 Our 3D model of the surrounding buildings, existing site and proposed development are shown in images 1 and 2 below.

Image 1: 3D View of the site

Image 2: 3D View of the Illustrative Massing

## 3 PLANNING POLICY

3.1 National Policy

*3.1.1* The revised National Planning Policy Framework ('NPPF') 2021 addresses the need for the flexible application of guidance relating to daylight and sunlight under Section 11 'Making effective use of land'. Paragraph 125(c) under subsection "*Achieving appropriate densities"* states the following;

*"c) 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)."*

3.2 Local Policy – Norwich City Council ('NCC')

3.2.1 Policy DM2: 'Amenity' of NCC's Development Management Policies Plan (adopted December 2014) states the following in relation to daylight and sunlight amenity;

*"Existing occupiers:*

*Development will be permitted where it would not result in an unacceptable impact on the amenity of the area or the living or working conditions or operations of neighbouring occupants. Particular regard will be given to:*

*a) the prevention of overlooking and the loss of privacy;*

*b) the prevention of overshadowing and loss of light and outlook; and*

*c) the prevention of disturbance from noise, odour, vibration, air or artificial light pollution.*

*Future occupiers:*

*Development will only be permitted where:*

*a) it provides for a high standard of amenity, satisfactory living and working conditions, adequate protection from noise and pollution and adequate levels of light and outlook for future occupiers; and*

*b) such a standard can be achieved and maintained without preventing or unreasonably restricting the continued operation of established authorised uses and activities on adjacent sites."*

3.2.2 Whilst not specifically referenced in NCC's planning policy, the most commonly applied guidance relating to daylight and sunlight amenity is provided in BRE Report "Site Layout Planning for Daylight and Sunlight; A Guide to Good Practice (2022)".

3.2.3 The site forms part of the East Norwich masterplan.

## 4 BRE REPORT "SITE LAYOUT PLANNING FOR DAYLIGHT AND SUNLIGHT: A GUIDE TO GOOD PRACTICE" SECOND EDITION (2022) ('THE BRE REPORT')

4.1 Principles

4.1.1 The BRE Report was updated in June 2022, with the 2011 version now withdrawn. Appendix A of this report provides an explanatory note which summarises the guidance provided in the BRE Report.

4.1.2 It is important to note that the introduction to the report stresses that the document is provided for guidance purposes only and it is not intended to be interpreted as a strict set of rules. It states that:

*"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 because natural lighting is only one of many factors in site layout design. (para. 1.6)*

*"In special circumstances the Developer or Planning Authority may wish to use different target values." (para. 1.6)*

*"Note that numerical values given here are purely advisory. Different criteria may be used, based upon the requirements for daylighting in an area viewed against other site layout constraints. Another important issue is whether the existing building is itself a good neighbour, standing a reasonable distance from the boundary and taking no more than its fair share of light". (para. 2.2.3)*

4.1.3 Appendix F gives guidelines on determining and applying alternative target values for skylight and sunlight access in areas where the BRE generic numerical target-values are considered unsuitable. The alternative target-value methodology provides site-specific numerical data that can be used to measure the potential effect of new development on neighbouring daylight and sunlight amenity in a more suitable context.

4.1.4 To ensure that vacant land and designated development sites can fulfil their development potential and meet target housing allocations, it is important to also consider the retained quantum of daylight and sunlight, rather than solely focus on the extent of change from the current values. The retained values can then be compared against values received by windows elsewhere in the tested properties that do not overlook the site, together with windows in other neighbouring properties; being 'alternative target-values'.

4.1.5 The BRE Report should be used in conjunction with the interior daylighting recommendations in BS EN 17037 *"Daylight in buildings"* and the CIBSE publication LG10 *"Daylighting – a guide for designers"*.

4.2 Glossary of Terms

4.2.1 Below is a simplified glossary of the daylight and sunlight terminology referred to in this report. Appendix A contains a technical glossary, together with a summary of the recommendations provided in the BRE Report:

4.2.2 **Vertical Sky Component ('VSC')** – the proportion of the sky dome that can be seen from a point in the centre of a window; the maximum VSC achievable from an unobstructed view from a vertical window is nearly 40%.

4.2.3 **No Sky Line ('NSL')** – the area of the working plane in a room that can and cannot receive direct skylight. This test is sometimes termed daylight distribution.

4.2.4 **Annual Probable Sunlight Hours ('APSH')** – the total number of hours in the year that the sun is expected to shine on a window, allowing for average levels of cloudiness.

4.2.5 **Sunlight Exposure ('SE')** – the total number of hours on 21 March that sunlight is expected to shine on a window.

4.2.6 **Sun Hours on Ground ('SOG')** – the total number of hours on a specific date that the sun could shine on the ground, assuming a cloudless sky. Usually assessed on 21 March.

4.2.7 **Transient Overshadowing** –Shadows cast by buildings at specific times and dates, depicted on drawings.

## 5 JUDGING ACCEPTIBILITY OF DAYLIGHT AND SUNLIGHT IMPACTS

5.1 As noted in Section 4, the BRE Report guidelines are not mandatory and should be considered flexibly depending on the local context. Indeed, numerous planning decisions and appeal decisions have made it clear that noticeable reductions in daylight and sunlight amenity should not be equated to "unacceptable losses".

5.2 The site forms part of the East Norwich masterplan and therefore the area is expected to undergo significant regeneration and densification, which will inevitably lead to reductions in daylight and sunlight amenity to neighbouring residential properties. In the existing conditions, the site is occupied by low rise buildings and it is therefore inevitable that any substantial development will have some effects on the levels of light. National and local policy and guidance therefore calls for an assessment of whether the resulting living standards are appropriate and not unacceptable. Authorities need to apply a balanced and flexible approach relating to daylight and sunlight to avoid inhibiting the efficient use of sites.

5.3 The completed apartment blocks to the north of the River Wensum provide a useful comparison when considering what level of retained daylight and sunlight in the neighbouring properties is contextually

appropriate for the area. This is particularly the case where the apartment blocks have been designed facing one another, for example either side of Geoffrey Watling Way.

5.4 To meet planning policy, most modern developments of apartment blocks provide external amenity space in the form of projecting balconies and this is the case for the apartment blocks to the north of the site. Whilst balconies provide occupiers with important external amenity space, they do provide a significant obstruction to daylight and sunlight amenity. The BRE Report states the following in relation to balconies:

*"Because the balcony cuts out light from the top part of the sky, even a modest obstruction may result in a large relative impact on the VSC, and on the area receiving direct skylight." (2.2.13)*

5.5 Professional judgement is required when determining what constitutes adequate levels of daylight and sunlight amenity, by reference to the BRE Report guidance, planning and appeal decisions and by comparison to what has been considered acceptable elsewhere in the locality.

5.6 In this case, the conclusions are based upon the Illustrative Massing. The additional impacts caused by the Parameter Massing, compared to the Illustrative Massing, are predominantly due to the gaps between the taller buildings being infilled. It is intended that this will give future designers sufficient flexibility when designing the individual buildings in detail over many years. As mentioned earlier in this report, it is envisaged that further detailed daylight and sunlight analysis will be undertaken at Reserved Matters Applications once the design for each new building is finalised.

## 6 ASSESSMENT OF SURROUNDING PROPERTIES

6.1 We have analysed the effect of the development on the daylight and sunlight amenity to the properties with a reasonable expectation of daylight and sunlight amenity situated around the site. Properties further afield, including the residential and student accommodation to the west of the site, would comply with the initial 25-degree line test (using the Parameter Massing) and therefore do not require detailed assessment as the daylight and sunlight amenity to them would not be adversely affected.

6.2 The full list of assessed properties is as follows;

- Brennan Bank, Lockhead Bank, Robinson Bank, Nethercott Bank and Gavin Bank (also known as Riverside Heights);
- Block R1, Block R2, Richard Hawthorn House, Solace and Patricia Hollis House (also known as Carrow Quarter);
- Norada, White Moth and Olive, Geoffrey Watling Way (also known as Carrow View).

6.3 The location of these buildings is shown in Image 3 below, with the existing buildings on the site are shaded green.

Image 3: Locations of assessed properties

6.4 The results of our assessment for the Illustrative Massing are set out below on a property-by-property basis. Permission is being sought for the Parameter Massing to give future designers sufficient flexibility to develop a detailed design whilst responding to changes in the market, policy and legislation. Whilst the massing is not representative of the eventual scheme that will be delivered, for completeness we have analysed the impact of the Parameter Massing and provided a summary of the results below.

6.5 <u>Brennan Bank, Lockhead Bank, Robinson Bank, Nethercott Bank and Gavin Bank (also known as Riverside Heights);</u>

Image: 04

Location: North of the development.

Description: Five apartment buildings of 7 and 8 storeys.

6.5.1 Floorplans and elevations have been obtained for these buildings from NCC's online planning database and these have been used to model the window positions and internal arrangements. We understand that the buildings were constructed between 2012 and 2015.

6.5.2 These buildings include car parking at ground floor level with apartments on the upper floors. Typical layouts include single aspect living/kitchen/dining rooms ('LKDs') and bedrooms set back beneath projecting balconies. Whilst the windows serving these buildings are large and designed to allow maximum daylight, the projecting balconies do provide a significant obstruction to daylight and sunlight amenity.

6.5.3 In total, we have assessed 170 windows serving 169 rooms.

*Illustrative Massing*

6.5.4 The analysis results show that all windows and rooms in Brennan Bank, Lochhead Bank and Nethercott Bank would comply with the BRE Report guidelines for daylight amenity. In Robinson Bank, one sixth floor window serving an LKD would retain 0.76 times the existing VSC, marginally transgressing the guidance figure of 0.80. All rooms in Robinson Bank would comply with the guidance using the NSL test.

6.5.5 At Gavin Bank, the Illustrative Massing would cause reductions in VSC to 20 windows, each retaining between 0.69 and 0.79 times the existing VSC however, all rooms tested would meet or exceed the guidance using the NSL test.

6.5.6 Turning to sunlight amenity, all tested rooms would comply with the BRE Report guidelines for winter sunlight. There would be reductions in annual sunlight to 15 rooms, including 9 LKD's and 6 bedrooms. These rooms are typically served by windows beneath projecting balconies and would receive between 19% and 27% APSH in the existing conditions, compared to the BRE Report recommendation of 25%. This is despite there being low rise buildings on the site to the to the south. Each room would retain between 0.65 and 0.79 times the existing APSH, retaining between 13% and 20% APSH, levels that are common in urban environments undergoing rapid transformation and intensification. Indeed, as noted in the following sections, assessment of apartment blocks further east has shown that these levels of APSH are higher than those received elsewhere in the locality.

6.5.7 The SOG test has been undertaken to the communal amenity areas at ground and podium levels between these buildings. The results are shown on drawing 401 under Appendix B and all 5 areas would comfortably meet the BRE Report guidelines, receiving at least 2 hours of direct sunlight to over 87% of the respective areas on 21st March. Accordingly, these areas will all remain well sunlit following completion of the development.

6.5.8 Appendix B also contains transient overshadowing drawings showing the shadows cast by the development at different times of day and year. As can be seen,

6.5.9 In summary, all the rooms in these buildings would comply with the BRE Report guidelines using the NSL test for daylight amenity. Whilst there would be some small transgressions of the BRE Report guidelines, the effects are considered minor and the retained levels of light are considered acceptable. The overshadowing analysis demonstrates that the occupiers will continue to enjoy good amounts of sunlight in the proposed conditions.

*Parameter Massing*

6.5.10 Using the Parameter Massing, 107 of the 170 windows (63%) would comply with the BRE Report guidelines using the VSC test and 128 of the 169 rooms (76%) would comply with the BRE Report guidelines using the NSL test.

6.5.11 The retained levels of VSC and NSL would be similar to the levels received in the existing conditions at Norada, White Moth and Olive buildings fronting Geoffrey Watling Way.

6.5.12 Turning to sunlight amenity, the APSH results show that 116 of the rooms would comply with the guidelines for annual sunlight and 158 with the guidelines for winter sunlight. The Parameter Massing would not result in any unacceptable overshadowing to the communal amenity areas, with the areas complying with the BRE Report guidelines.

6.6 Block R1, Block R2, Richard Hawthorn House, Solace and Patricia Hollis House (also known as Carrow Quarter)

Image: 05

Location: North of the development.

Description: Six to nine storey apartment buildings.

6.6.1 Plans for these buildings have been obtained from NCC's online planning database. Blocks R1 and R2 are currently under construction but will be complete prior to any works commencing on the development site. The proposed elevation facing the south is shown in Image 6 below, with Blocks R1 and R2 on the left hand side, Richard Hawthorn House and Solace in the centre and Patricia Hollis House to the rights hand side.

Image: 06

Description: Proposed south elevation

6.6.2 The windows facing the site serve a mixture of LKDs and bedrooms. The vast majority of LKDs are served by projecting balconies which obstruct daylight and sunlight amenity to the windows beneath.

6.6.3 In total, we have assessed 265 windows serving 169 rooms in these buildings.

*Illustrative Massing*

6.6.4 Using the VSC test, 214 windows (81%) would comply with the BRE Report guidelines and, using the NSL test, 160 (95%) would comply with the BRE Report guidelines.

6.6.5 Starting with Blocks R1 and R2, the 14 windows not meeting the guidelines for VSC are located beneath balconies and serve LKDs that benefit from windows facing east or west as well as south towards the site. These additional windows meet the BRE Report guidelines for VSC and all LKDs would comply with the BRE Report guidelines using the NSL test. There are two first floor bedrooms in Block R1 which would not meet the guidelines for NSL, retaining 0.74 and 0.72 times the existing NSL, only marginally below the 0.80 BRE Report recommendation.

6.6.6 At Richard Hawthorn House and Solace, the 14 windows not meeting the guidelines for VSC serve multi-aspect LKDs. Except for one first floor LKD (Ref. R2), at least one further window to each of these rooms would comply with the BRE Report guidelines for VSC. First floor room R2 would see reductions in VSC, however, two of the windows would retain more than 25% VSC and the room would comply with the BRE Report guidelines using the NSL test. There are two LKD's in Richard Hawthorn House that would not meet the BRE Report guidelines using the NSL test, retaining 0.71 and 0.72 times the NSL in the existing conditions. All the windows serving these two rooms would comply with the guidance for VSC.

6.6.7 Patricia Hollis House is the easternmost block in this development and the assessment results show that 23 windows would deviate from the default BRE Report guidelines using the VSC test. Fifteen of these windows serve LKD's, with the remaining eight serving bedrooms.

6.6.8 The eight windows serving bedrooms would retain between 25.27% and 26.98% VSC, very slightly below the default 27% recommendation. Five bedrooms would also transgress the BRE Report guidance using the NSL test, retaining direct skylight to between 60% and 76% of each rooms area, compared to the BRE Report recommendation of 80%.

6.6.9 Eleven of the adversely affected LKD windows serve rooms with multiple windows, where the remaining windows would comply with the BRE Report guidelines. The remaining four windows serve single aspect LKDs where the windows are set-back beneath projecting balconies (see Image 7). The NSL results show that all the LKDs assessed would comply with the BRE Report guidelines using this test.

Image: 07

Description: Patricia Hollis House

6.6.10 All the main living rooms would comply with the BRE Report guidelines using the NSL test. Where bedrooms experience losses of daylight beyond the default guidance, the vast majority are either minor, or to windows beneath projecting balconies meaning the actual quantum of loss is generally small. As such, it is considered that these apartments would retain adequate levels of daylight amenity.

6.6.11 Turning to sunlight amenity, 165 of the 169 rooms (98%) would comply with the BRE Report guidelines using the APSH test and all 169 would comply with the guidance for winter sunlight. The four rooms not meeting the guidelines are LKD's served by windows beneath projecting balconies that would see the APSH reduced from between 26% and 23% to between 14% and 18%. The retained levels of sunlight are considered appropriate in an urban location undergoing regeneration.

6.6.12 Turning to sunlight amenity, all rooms tested would comply with the BRE Report guidelines for winter sunlight. There would be reductions in annual sunlight to 15 rooms, including 9 LKD's and 6 bedrooms. These rooms are typically served by windows beneath projecting balconies and would receive between 19% and 27% APSH in the existing conditions, compared to the BRE Report recommendation of 25%. Each room would retain between 0.65 and 0.79 times the existing APSH retaining between 13% and 20% APSH, levels that are common in urban environments undergoing rapid transformation and intensification.

6.6.13 Overshadowing has been considered to the communal amenity areas at podium level between these buildings. The analysis demonstrates that both areas would comfortably exceed the guidance given in the BRE Report, with 94% and 96% of each area receiving at least 2 hours of direct sunlight on 21 March.

6.6.14 Appendix B also contains transient overshadowing drawings showing the shadows cast by the development at different times of day and year.

6.6.15 In summary, whilst the Illustrative Massing would cause some minor transgressions of the BRE Report guidelines, the impacts are considered acceptable and the retained levels of daylight and sunlight are contextually appropriate.

*Parameter Massing*

6.6.16 Using the Parameter Massing, 99 of the 265 windows (37%) would comply with the BRE Report guidelines using the VSC test and 52 of the 169 rooms (31%) would comply with the BRE Report guidelines using the NSL test.

6.6.17 Despite the lower level of compliance with the BRE guidance, the retained levels of VSC and NSL are generally consistent with levels currently experienced elsewhere in the area, with many receiving higher levels of VSC and NSL than in the neighbouring buildings, particularly those on the north side of Geoffrey Watling Way (see Section 6.7 below).

6.6.18 Turning to sunlight amenity, the APSH results show that 157 of the rooms would comply with the guidelines for annual sunlight and 142 with the guidelines for winter sunlight. The Parameter Massing would not result in any unacceptable overshadowing to the communal amenity areas, with the areas complying with the BRE Report guidelines.

6.7 Norada, White Moth and Olive, Geoffrey Watling Way (also known as Carrow View)

Image: 08

Location: North of the development.

Description: Six to ten storey buildings containing apartments. Image 3 shows the south elevation which faces the development.

6.7.1 These three blocks of apartments are located on the north side of Geoffrey Watling Way and have recently been completed. The floorplans and elevations have been obtained from NCC's online planning database.

6.7.2 As with the other properties analysed, the windows facing south serve a combination of LKDs and bedrooms. Most of the LKD windows are set-back beneath projecting balconies which restrict daylight and sunlight amenity in the existing conditions. Due to the projecting balconies and proximity to the buildings opposite, these rooms generally receive lower levels of light in the current conditions.

6.7.3 We have assessed a total of 134 windows serving 95 rooms.

*Illustrative Massing*

6.7.4 The assessment results show that 125 windows (93%) and 91 rooms (96%) would comply with the BRE Report guidelines for daylight amenity.

6.7.5 The nine windows not meeting the guidelines each receive extremely low levels of VSC in the existing conditions, meaning that small absolute reductions generate larger ratio reductions. The average VSC to the nine windows not meeting the guidelines would be reduced from 1.61% to 1.16% VSC, an average reduction of just 0.45% VSC which will not be perceptible to the occupiers.

6.7.6 The four rooms not meeting the guidelines for NSL are located in Norada; the NSL to these rooms would be reduced from between 38% and 41% to between 18% and 30%. These retained figures are consistent with existing levels of NSL elsewhere in this development. For example, the second floor rooms at White Moth receive an average NSL of 11% and 23% at third floor.

6.7.7 Turning to sunlight amenity, all assessed rooms would comply with the BRE Report guidelines for both annual and winter sunlight.

6.7.8 In summary, the development would not have an unacceptable effect on daylight and sunlight amenity to these apartments.

*Parameter Massing*

6.7.9 Using the Parameter Massing, 102 of the 134 windows (76%) would comply with the BRE Report guidelines using the VSC test and 81 of the 95 rooms (85%) would comply with the BRE Report guidelines using the NSL test. The windows would see an absolute maximum reduction in VSC of just 3.30%.

6.7.10 Turning to sunlight amenity, the APSH results show that all 95 rooms would comply with the guidelines for both annual and winter sunlight.

6.8 Riverside Walk

Image: 08

Location: North of the development.

Description: Riverside walk and seating areas on the north side of the River Wensum.

6.8.1 Overshadowing has also been considered to the riverside walk and seating areas on the north side of the River Wensum. The SOG and transient overshadowing assessments for this area can be seen on drawings 450 to 456 in Appendix B.

*Illustrative Massing*

6.8.2 This assessment demonstrates that the area would comply with the BRE Report guidelines, with 94% of the area receiving at least 2 hours of sun on 21 March. The transient overshadowing drawings show that the proposed development would cast some additional shadows, however, these would move throughout the day and the gaps between the new buildings would ensure that the area would remain well sunlit.

*Parameter Massing*

6.8.3 Using the Parameter Massing, additional levels of overshadowing would be caused by the development with 48% of the area receiving at least 2 hours of sunlight on 21 March, marginally below the recommended 50%. The area not meeting the guidelines is located in front of the Carrow Quarter development.

6.8.4 The transient overshadowing drawings show that the Parameter Massing would cast shadows in front of the Carrow Quarter development for most of the day on 21 March however, on 21st June, no shadow would be cast on the north side of the river.

## 7 LIGHT LEVELS WITHIN THE PROPOSED SCHEME

7.1 We have considered the potential for daylight and sunlight to be received to the residential accommodation within the development and for sunlight amenity to be received in the communal external amenity areas. Our assessment focuses on the areas of the development where daylight and sunlight amenity is likely to be most restricted. Other areas would generally have greater access to skylight and would therefore receive higher levels of daylight and sunlight amenity.

7.2 The assessment has been undertaken using the Illustrative Massing only as this presents one way in which a development could be brought forward and gives a more realistic representation of the eventual massing and effects.

7.3 It is envisaged that further technical analysis will accompany Reserved Matters Applications for the detailed elements of the development to demonstrate that adequate levels of natural light can be received.

7.4 Daylight

7.4.1 To assess daylight availability in the early stages of the design process, prior to the detailed design of room layouts, window locations and balconies, the BRE Report recommends calculating the VSC at a series of points on the façade.

7.4.2 The BRE Report discusses VSC values and provides the following design guidance:

- VSC of 27% or above, conventional window design will usually allow reasonable daylight to enter rooms;
- VSC between 15% and 27%, larger windows and changes to room layout are usually needed to allow adequate daylight;
- VSC between 5% and 15%, very difficult to provide adequate daylight unless very large windows are used;
- VSC of 5% or less, often impossible to achieve reasonable daylight, even if the whole window wall is glazed.

7.4.3 The 3D model for the Illustrative Massing has been used to ascertain the VSC values that would be achieved at the façades of the illustrative residential buildings located to the north of the site where light would be most restricted due to the proposed density and height. The study assumes that the entirety of the façades will be residential, from ground floor upwards. However, some of the proposed blocks are likely to contain other uses at ground floor that are unlikely to have the same requirement for natural light. Our assessment therefore presents a worst case scenario.

7.4.4 The analysis produces façade images for each elevation showing the VSC value received. The façades are split into 1.5 metre square segments, the colour of which represents the VSC achieved at that location.

7.4.5 The 3D context model of the VSC façade study is shown in Image 9 below. The façade images for each building can be found in Appendix D.

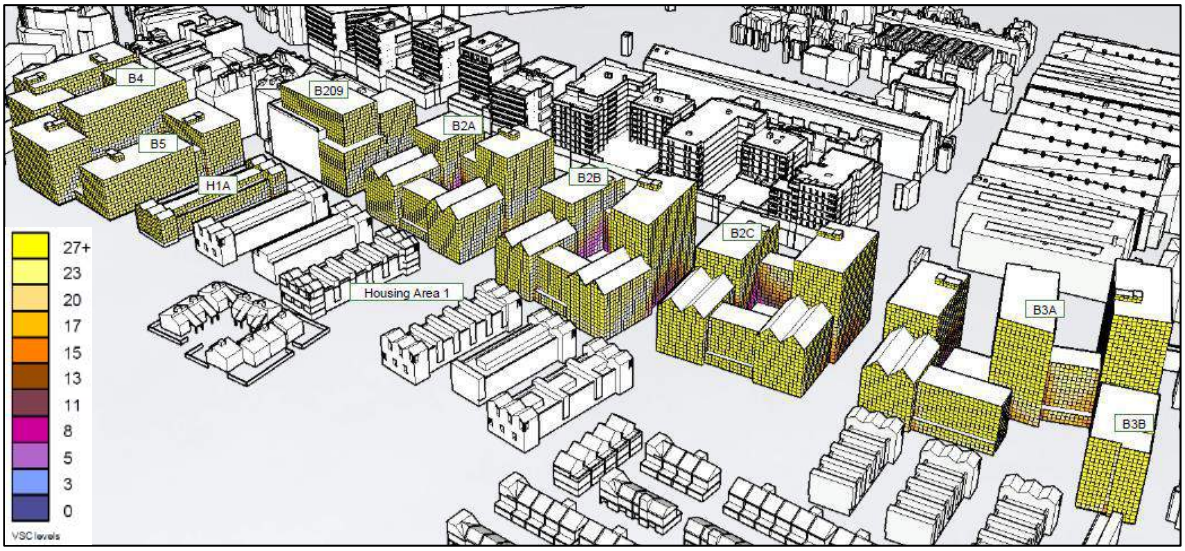



Image 9: VSC Façade Legend

7.4.6 Table 1 below summarises the VSC received to each residential block, illustrated as a percentage of the overall residential façade areas. As an example, 54.97% of the façades to the buildings within 2A would achieve a VSC value of 27% or higher, 33.57% would receive VSC values between 15% and 27%, 11.30% would receive a VSC value between 5% and 15% and 0.18% would receive a VSC value below 5%.

| Plot | VSC (% of façade) | | | |
|---|---|---|---|---|
| | >27% | 15%-26.99% | 5%-14.99% | <5% |
| Building 209 | 76.21% | 21.62% | 2.17% | 0% |
| Building 2A | 54.97% | 33.57% | 11.30% | 0.18% |
| Building 2B | 51.04% | 33.37% | 15.45% | 0.14% |
| Building 2C | 52.44% | 31.48% | 15.99% | 0.09% |
| Building 3A | 53.46% | 33.43% | 13.02% | 0.09% |
| Building 3B | 73.48% | 17.74% | 8.78% | 0% |
| Building 4 | 54.41% | 27.27% | 15.11% | 3.22% |
| Building 5 | 50.92% | 26.74% | 15.15% | 7.18% |
| Houses adjacent to Building 5 | 41.29% | 44.60% | 14.10% | 0% |

Table 1: VSC Façade Results

7.4.7 The results show that the overwhelming majority of the façades assessed will have good access to daylight. Between 77.66% and 97.83% of the façades to each building tested would receive at least 15% VSC, with only between 0% and 7.18% of the respective façades receiving less than 5%.

7.4.8 The isolated areas where daylight will be more restricted face into the central courtyards of the proposed buildings, with the outward facing elevations generally receiving high levels of VSC. The results demonstrate that, with good design, the vast majority of the proposed habitable rooms within the development would have the potential to receive acceptable levels of daylight amenity. Where daylight is more restricted, it will be important to ensure that the detailed design responds to the need to maximise daylight, for example, specifying larger windows.

7.5 Sunlight

7.5.1 In new buildings, the BRE Report recommends calculating the Sunlight Exposure to assess whether a dwelling will appear reasonably sunlit. This test measures the hours of sunlight that could be received at specific points on a façade or, at detailed design stage, the centre point of each window on 21 March.

7.5.2 In housing, the main requirement for sunlight is in living rooms. It is viewed as less important in kitchens and bedrooms.

7.5.3 The BRE Report recommends that:

- Site layout design aims to ensure that at least one main window wall faces within 90-degrees of due south.
- That a habitable room, preferably a main living room, can receive a total of at least 1.5 hours of sunlight on 21 March.
- Where groups of dwellings are planned, site layout design should aim to maximise the number of dwellings that meet the above recommendations.

7.5.4 Sunlight Exposure has been assessed to the same buildings of the Illustrative Massing as have been assessed for daylight. The assessment results include all areas of façade however, façades orientated within 90 degrees of due north would not be expected to achieve the BRE Report guidelines for sunlight amenity. The façade images can be found in Appendix E.

7.5.5 Table 02 below shows the percentage of each façade, calculated on a building-by-building basis, which receive at least 1.5 hours of sunlight on 21 March. It is important to note that these figures include the facades orientated in a northerly direction, where 1.5 hours of sunlight is unlikely to be achievable.

| Plot | Sunlight Exposure (% of façade) | |
|---|---|---|
| | >1.5 hours | <1.5 hours |
| Building 209 | 69.26 | 30.74 |
| Building 2A | 67.06 | 32.94 |

| Plot | Sunlight Exposure (% of façade) | |
|---|---|---|
| | >1.5 hours | <1.5 hours |
| Building 2B | 72.44 | 27.56 |
| Building 2C | 70.57 | 29.43 |
| Building 3A | 72.85 | 27.15 |
| Building 3B | 81.99 | 18.01 |
| Building 4 | 65.83 | 34.17 |
| Building 5 | 61.40 | 38.60 |
| Houses adjacent to Building 5 | 79.85 | 20.15 |

Table 2: Sunlight Exposure Façade Results

7.5.6 The layout of the proposed buildings gives the potential for sunlight to be received across most of the development and this is demonstrated by the results. Over 60% of each façade will meet or exceed the BRE Report guidelines for sunlight amenity with most buildings receiving more than 70%. The areas not meeting the guidelines are mostly orientated in a northerly direction and care will be needed at detailed design stage to ensure that access to sunlight is maximised.

7.6 Overshadowing

7.6.1 Overshadowing is assessed using the SOG assessment which plots the area of an amenity space that receives at least 2 hours of direct sunlight on 21 March. For an external amenity area to appear adequately sunlit throughout the year, the BRE Report recommends that at least half the amenity area should receive at least two hours of direct sunlight on 21 March.

7.6.2 The BRE Report notes that, as an addition, the results on 21 June can be helpful as they represent the best-case of minimum shadow.

7.6.3 The areas meeting the BRE Report guidance are shaded yellow on the plan in Image 10 below, with the numerical values given on the drawings in Appendix F, which show the assessment results on 21 March and 21 June.


Image 10: SOG assessment

7.6.4 The SOG test has been used to assess the amount of sunlight received to the internal courtyards to Buildings 2 to 5 and Building 209. The large communal amenity spaces at Abbey Grounds and Abbey Gardens have not been assessed at they would comfortably exceed the recommended minimum amounts of sunlight due to the largely unobstructed aspect to the south. The future residents will all have access to this well sun lit area.

7.6.5 This analysis shows that the ground level amenity areas assessed within the scheme would all comply with the BRE Report guidelines for sunlight amenity on both 21 March and 21 June.

7.6.6 On 21 March, sunlight would be restricted to some of the podium level courtyards within the proposed blocks. At detailed design stage, consideration should be given to locating the areas of amenity where sunlight is more valuable to the north where greater levels of sunlight should be available. In summer, the majority of the courtyards will receive some sun.

## 8 CONCLUSION

8.1 Effect on Neighbouring Residential Properties

8.1.1 Our analysis has considered the effect that the Illustrative Massing would have on daylight and sunlight amenity to the neighbouring residential properties. The only surrounding properties that could be adversely affected are located to the north of the site, on the northern bank of the River Wensum and comprise a series of recently constructed apartment buildings.

8.1.2 Technical analysis shows that that a high percentage of windows and rooms would meet or exceed the default BRE Report guidelines. Where deviation from the guidance occurs, it is predominantly to windows and rooms that are set beneath projecting balconies which, by their inherent design, restrict the amount of light that can be received to the room beneath. Consequently, even a small additional obstruction can lead to large percentage reduction beyond the default guidance whereas the absolute reduction in light is often modest.

8.1.3 In the existing conditions, the northern part of the site is occupied by low rise warehouse buildings and it is therefore inevitable that the proposed regeneration to provide a higher density residential led development. may lead to some noticeable reductions in the amount of light received. This does not necessarily mean that the effects unacceptable and consideration must be given to the retained levels in the local context, as well as the reductions. Indeed, analysis shows that the retained levels of daylight and sunlight are commensurate with the amounts of daylight and sunlight received by other neighbouring buildings in the current conditions.

8.1.4 Based on the Illustrative Massing, the neighbouring properties would, in our opinion, retain acceptable levels of daylight and sunlight amenity that are contextually appropriate and consistent with expectations in an urban environment undergoing rapid regeneration and densification.

8.1.5 Permission is being sought for the Parameter Massing to give future designers sufficient flexibility to develop a detailed design whilst responding to changes in the market, policy and legislation. Whilst the massing is not representative of the eventual scheme that will be delivered, for completeness we have analysed the impact of the Parameter Massing.

8.1.6 The Parameter Massing will inevitably lead to a greater number of windows and rooms in the neighbouring buildings that would not meet the BRE default guidance, predominantly due to the gaps between the taller buildings being infilled. However, it is considered that the retained levels of daylight and sunlight amenity would be contextually appropriate and directly comparable with the results for parts of other buildings located on the north side of the River Wensum. The final scheme design will include separation between the taller buildings, which will mitigate the effects caused by the Parameter Massing and likely result in effects that are similar to the Illustrative Massing.

8.1.7 It is envisaged that detailed daylight and sunlight analysis will accompany Reserved Matters Applications for each building to ensure that the detailed design of the buildings does not result in unacceptable effects on daylight and sunlight amenity to the neighbouring properties. Based on the results for the Illustrative Massing, this can be achieved.

8.1.8 In accordance with the NPPF, NCC's planning policy and BRE Report guidance, it is considered that the development would not have an unacceptable effect on daylight and sunlight amenity to the neighbouring residential properties. It is considered that, where minor transgressions of the BRE Report guidance occur, the neighbouring apartments will all retain adequate levels of daylight and sunlight amenity, consistent with occupier expectations in an area undergoing regeneration and densification.

8.2 <u>Light Received within the Development</u>

8.2.1 Whilst outline permission is being sought, we have considered the potential for adequate daylight and sunlight to be received for future occupiers. We have focused on those parts of the scheme where daylight and sunlight will be more restricted. Daylight façade studies show that a high percentage of units will have the potential

to receive adequate levels of daylight amenity and the sunlight exposure façade studies illustrate that approximately two thirds of the façades to each building tested would have the potential to receive at least 1.5 hours of sunlight on 21 March, with many areas receiving far more.

8.2.2 The façade studies also highlight areas of the scheme where daylight and / or sunlight availability will be more limited and design mechanisms will be required to maximise the amount of light received. At detailed design stage, a range of design measures can be incorporated, ranging from height, bulk and mass of buildings to window sizes and apartment layouts (e.g. placing stair cores or bathrooms where light is more restricted). By incorporating a range of these options into the final design, it is considered that acceptable levels of daylight and sunlight can be achieved.

8.2.3 Where lower levels of light cannot be avoided to a small proportion of apartments., through careful design, it should be possible to achieve adequate levels of light, commensurate for a large scale regeneration scheme such as this.

8.2.4 Turning to overshadowing, the Illustrative Massing has been designed so that future occupiers will benefit from well sunlit external areas. Whilst sunlight would be restricted to some of the podium level amenity spaces, careful positioning of those areas where sunlight is most valuable should ensure that good levels of amenity are achieved. Indeed, all of the future residents would have access to the ground level amenity areas, which would be well sun lit.

8.2.5 In accordance with national and local planning policy and the BRE Report guidelines, it is considered that adequate levels of daylight and sunlight amenity can be achieved within the proposed development, consistent with occupier expectations for an area undergoing regeneration.

**APPENDIX A**

**BRE REPORT EXPLANATORY NOTE**

**BRE REPORT "SITE LAYOUT PLANNING FOR DAYLIGHT AND SUNLIGHT, A GUIDE TO GOOD PRACTICE" (2022) - EXPLANATORY NOTE AND METHODOLOGY**

The 2022 edition of the BRE Report took effect in June 2022 and superseded the 2011 version. The below note summarises the recommended assessment methodologies, guidance and advice within the BRE Report, in conjunction with other key guidance documents that can be used for assessing the acceptability of developments in terms of any impact on daylight and sunlight to surrounding buildings.

**Introduction**

It is important to note that the introduction to the BRE Report stresses that the document is provided for guidance purposes only and it is not intended to be interpreted as a strict set of rules. It also suggests that it may be appropriate to adopt a flexible approach and alternative target values in dealing with *"special circumstances"* 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."* This is amplified by the following extracts from the introduction and Section 2.2:

*"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 because natural lighting is only one of many factors in site layout design…"*

*"In special circumstances the Developer or Planning Authority may wish to use different target values."*

*"Note that numerical values given here are purely advisory. Different criteria may be used, based upon the requirements for daylighting in an area viewed against other site layout constraints. Another important issue is whether the existing building is itself a good neighbour, standing a reasonable distance from the boundary and taking no more than its fair share of light".*

The examples given in the BRE Report can be applied to any part of the country: suburban, urban and rural areas. The inflexible application of the target values given in the Report may make reaching the BRE criteria difficult in a tight, urban environment where there is unlikely to be the same expectation of daylight and sunlight amenity as in a suburban or rural environment.

**Daylight**

In summary, the BRE Report states that:

*"If any part of a new building or extension, measured in a vertical section perpendicular to a main window wall of an existing building from the centre of the lowest window, subtends an angle of more than 25 degrees to the horizontal, then the diffuse daylighting of the existing building may be adversely affected. This will be the case if either:*

*the vertical sky component ['VSC'] measured at the centre of an existing main window is less than 27%, and less than 0.8 times its former value;*

*the area of the working plane (0.85m above floor level in residential properties) in a room which can receive direct skylight is reduced to less than 0.8 times it former value.*

*The guidelines given here are intended for use for rooms in adjoining dwellings where daylight is required including living rooms, kitchens and bedrooms. Windows to bathrooms, toilets, store rooms, 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."*

The Report also states that:

*"Where room layouts are known, the impact on the daylighting distribution in the existing building can be found by plotting the 'no-sky line' in each of the main rooms. For houses this would include living rooms, dining rooms and kitchens; bedrooms should also be analysed, although they are less important. In non-domestic buildings each main room where daylight is expected should be investigated."*

*…Windows to bathrooms, toilets, store rooms, circulation areas and garages need not be analysed."*

Guidance has been provided in the Second Edition of the report in relation to existing windows with balconies:

*"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 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 area receiving direct skylight, for both the existing and proposed situations, without the balcony in place. For example, if the proposed VSC with the balcony was under 0.8 times the existing value with the balcony, but the same ratio for the values without the balcony was well over 0.8, this would show that the presence of the balcony, rather than the size of the new obstruction, was the main factor in the relative loss of light."*

*A larger relative reduction in VSC may also be unavoidable if the existing window has projecting wings on one or both sides of it, or is recessed into the building so that it is obstructed on both sides as well as above."*

Further guidance is provided in Appendix F on alternative target values when considering the loss of light to an existing building. F1 states the following:

*"These values are purely advisory and different targets may be used based on the special requirements of the proposed development or its location. Such alternative targets may be generated from the layout dimensions of existing development"*

**Sunlight**

The BRE Report advises that new development should take care to safeguard access to sunlight for existing buildings and any non-domestic buildings where there is a particular requirement for sunlight. In summary, the report states:

*"If a living room of an existing dwelling has a main window facing within 90 degrees of due south, and any part of a new development subtends an angle of more than 25 degrees 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 over the whole year greater than 4% of annual probable sunlight hours"*

The report also states that:

*"…It is suggested that all main living rooms of dwellings, and conservatories, should be checked if they have a window facing within ninety-degrees of due south. Kitchens and bedrooms are less important, although care should be taken not to block too much sun. In non-domestic buildings any spaces which are deemed to have a special requirement for sunlight should be checked; they will normally face within ninety-degrees of due south anyway."*

**Overshadowing**

Section 3.3 of the BRE Report gives guidelines for protecting the sunlight to open spaces where it will be required. This would normally include:

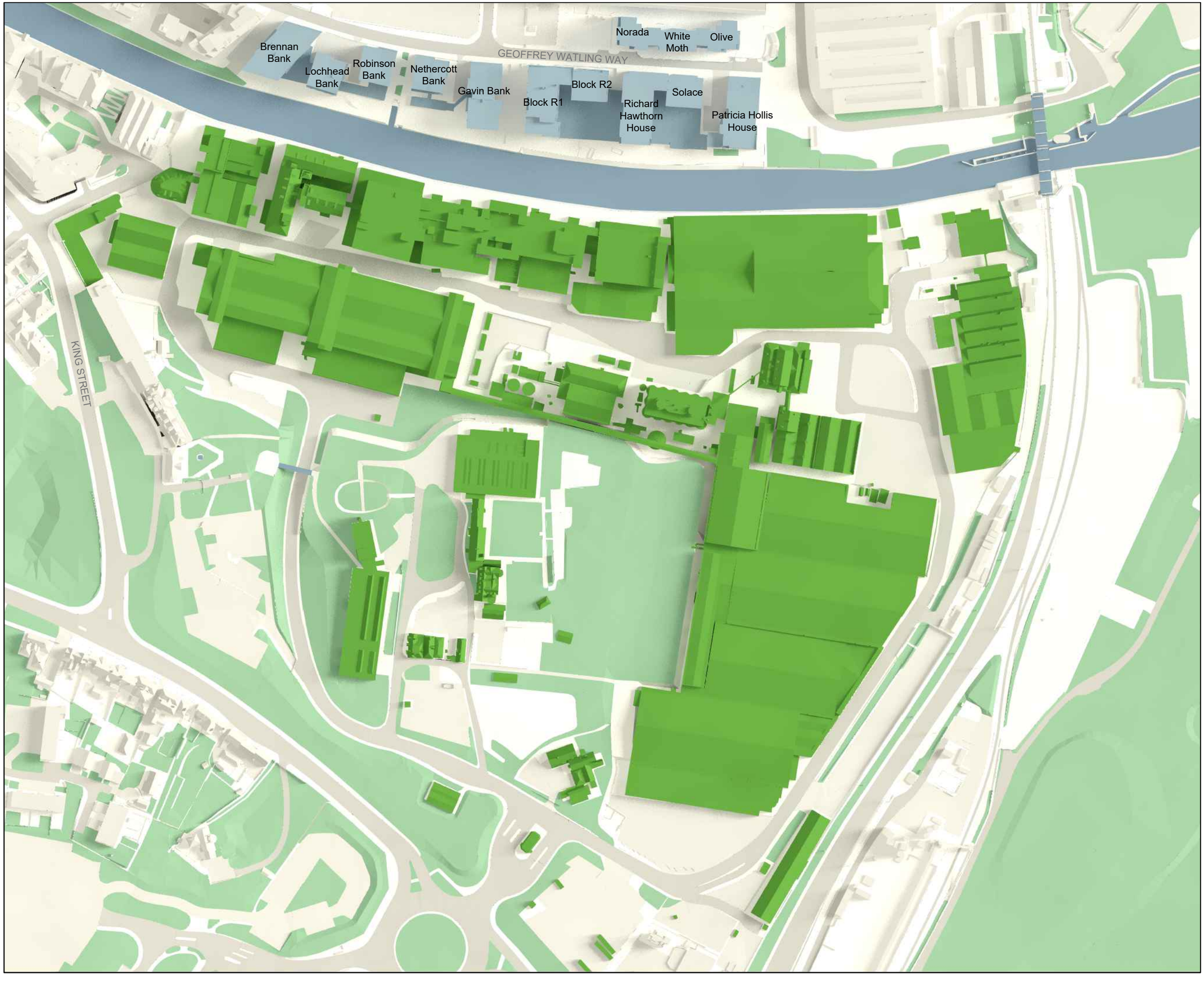
- Gardens, usually the main back garden of a house and allotments;
- Parks and playing fields;
- Children's playgrounds;
- Outdoor swimming pools and paddling pools;
- Sitting out areas such as those between non-domestic buildings and in public squares; and
- Focal points for views such as a group of monuments or fountains.

In summary, the Report states that:

*"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 2 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 2 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. If a detailed calculation cannot be carried out, it is recommended that the centre of the area should receive at least 2 hours of sunlight on 21 March."*

**APPENDIX B**

**DRAWINGS FOR SURROUNDING PROPERTIES**



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SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

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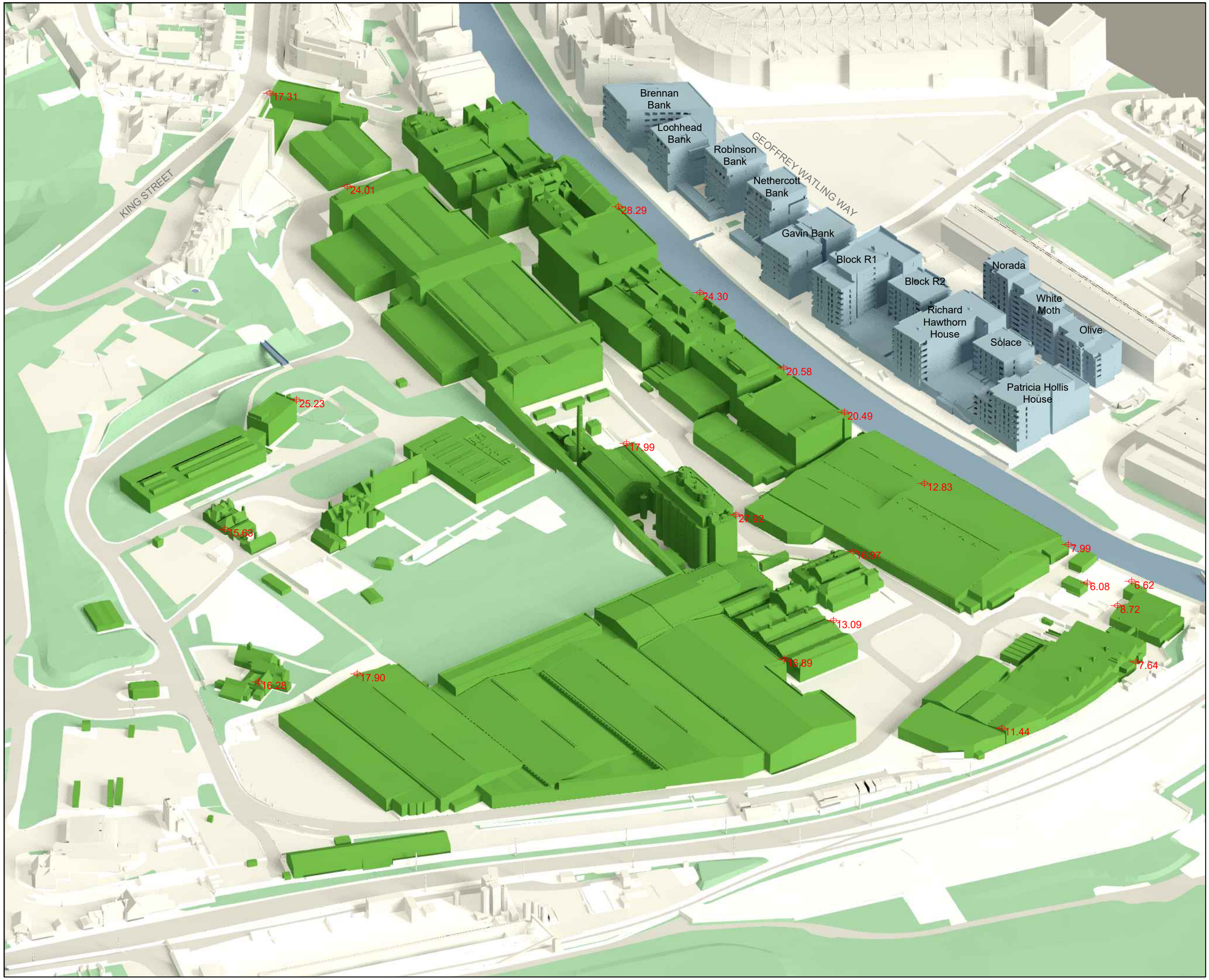




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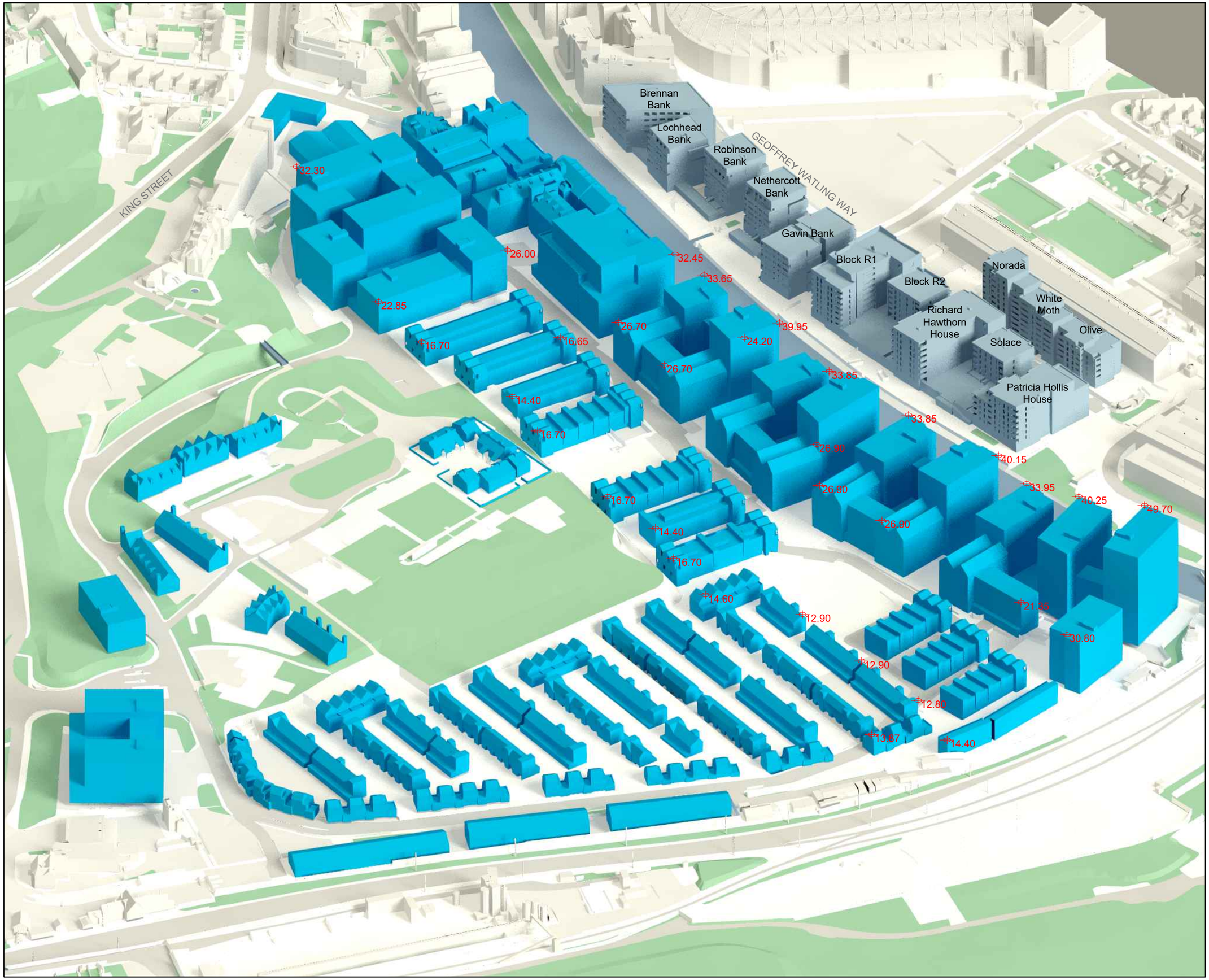




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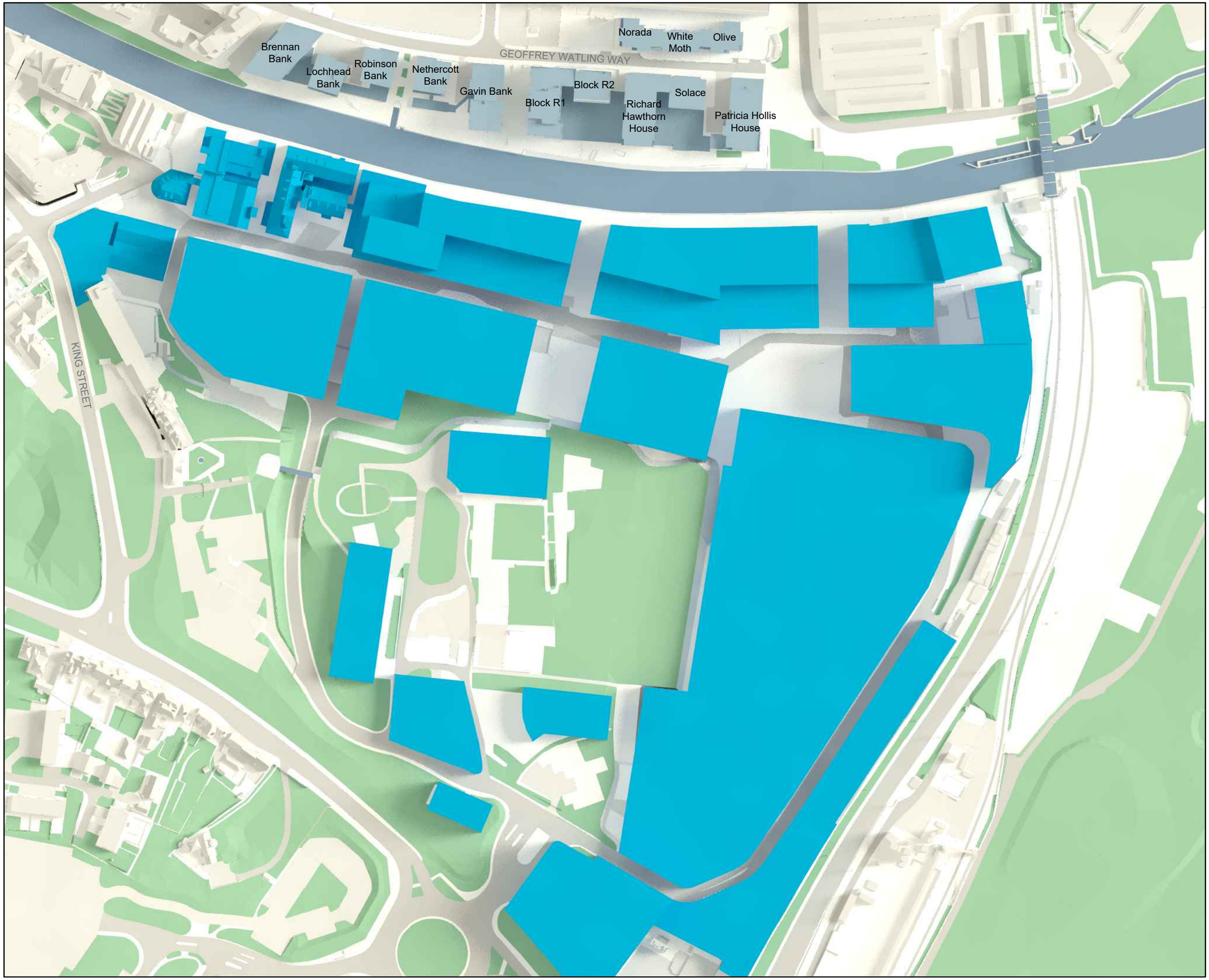




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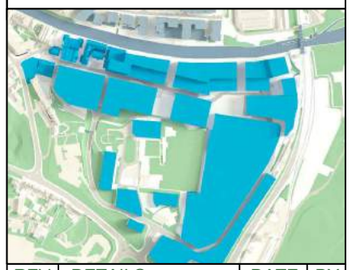

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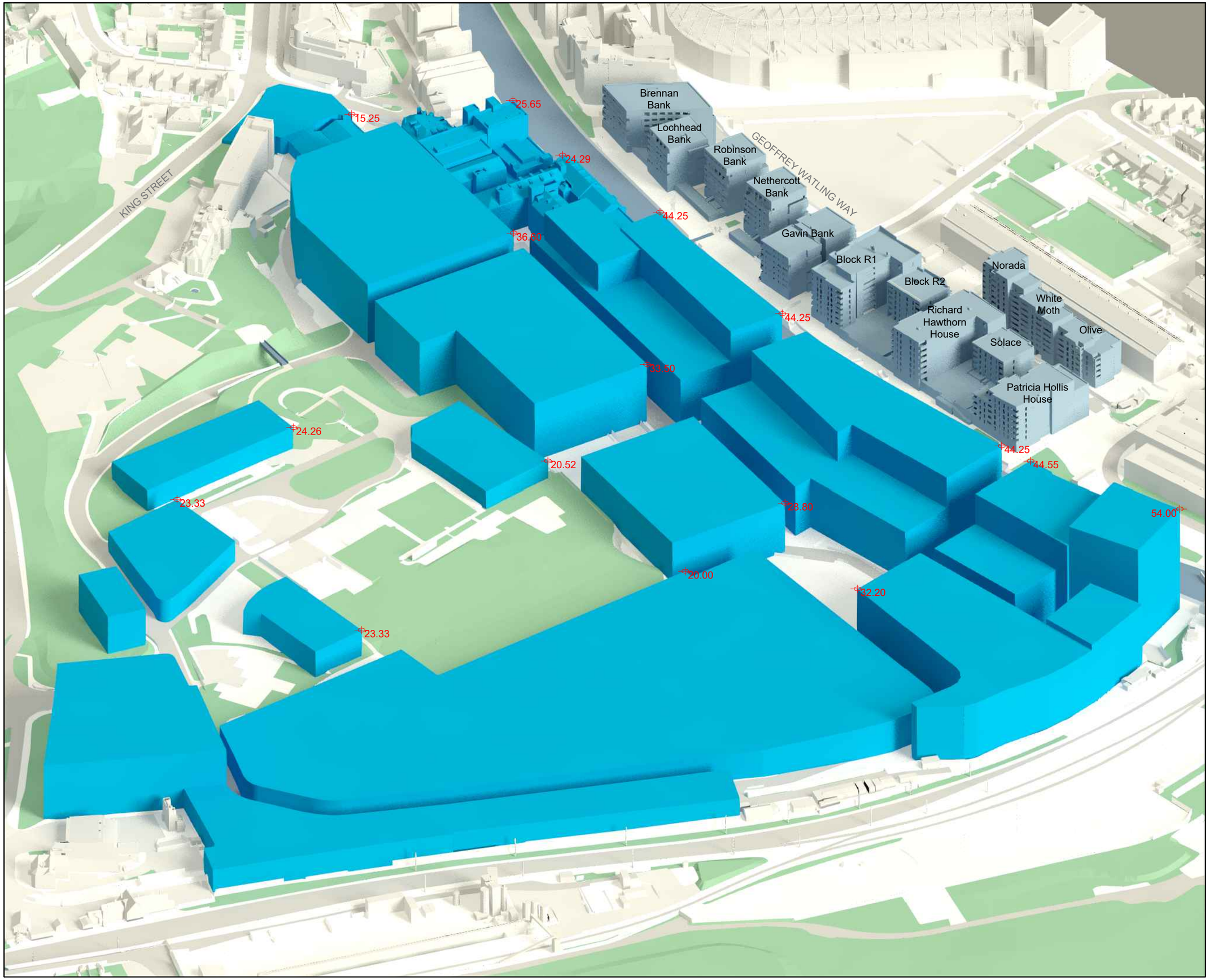




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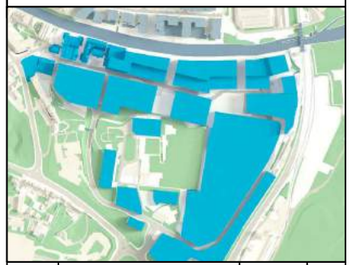

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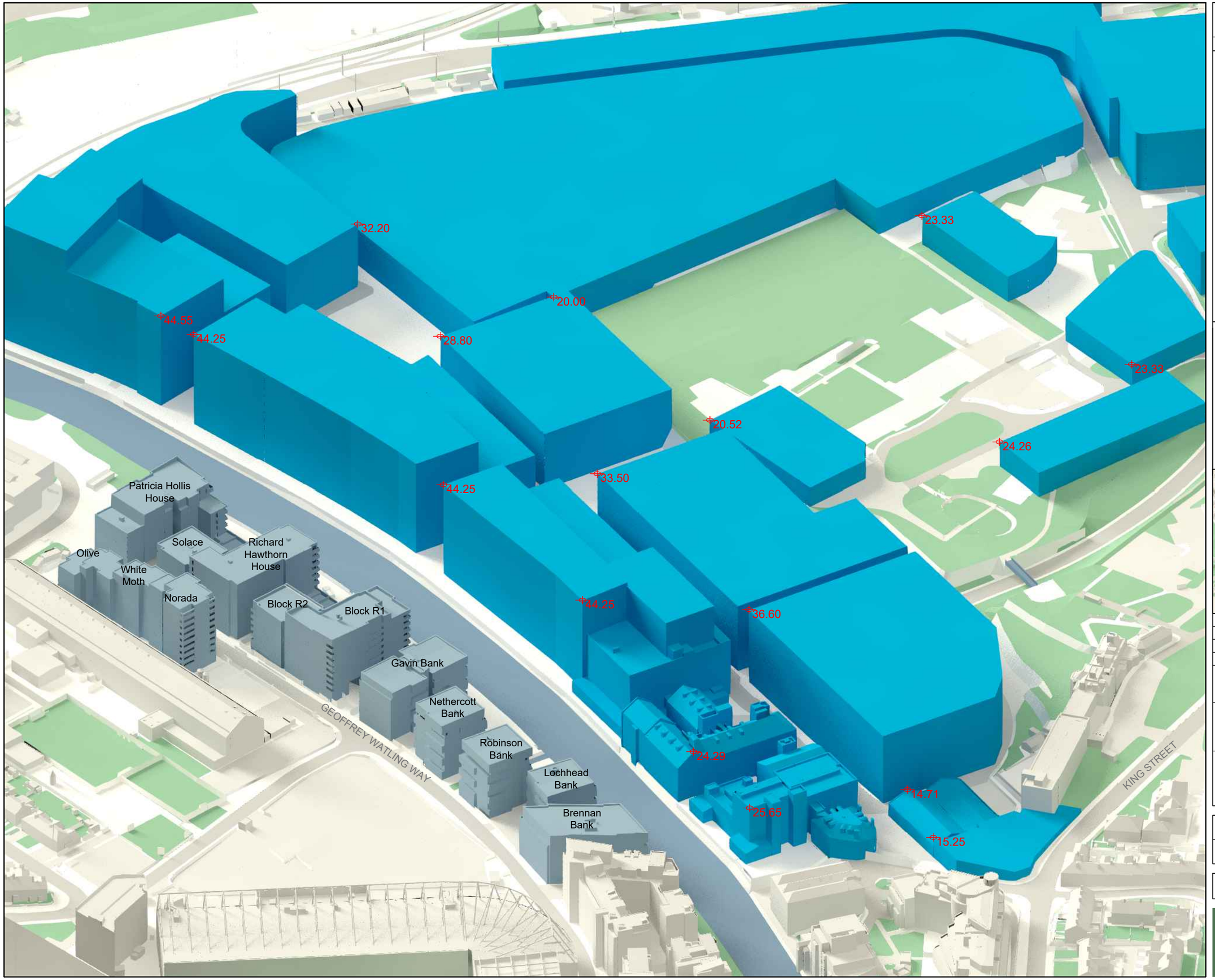




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SOURCES OF INFORMATION:

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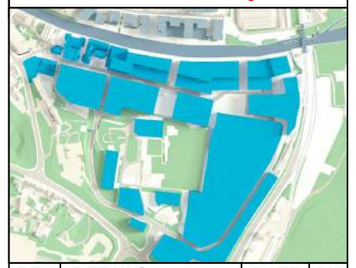

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Proposed 3D view
Parameter Massing

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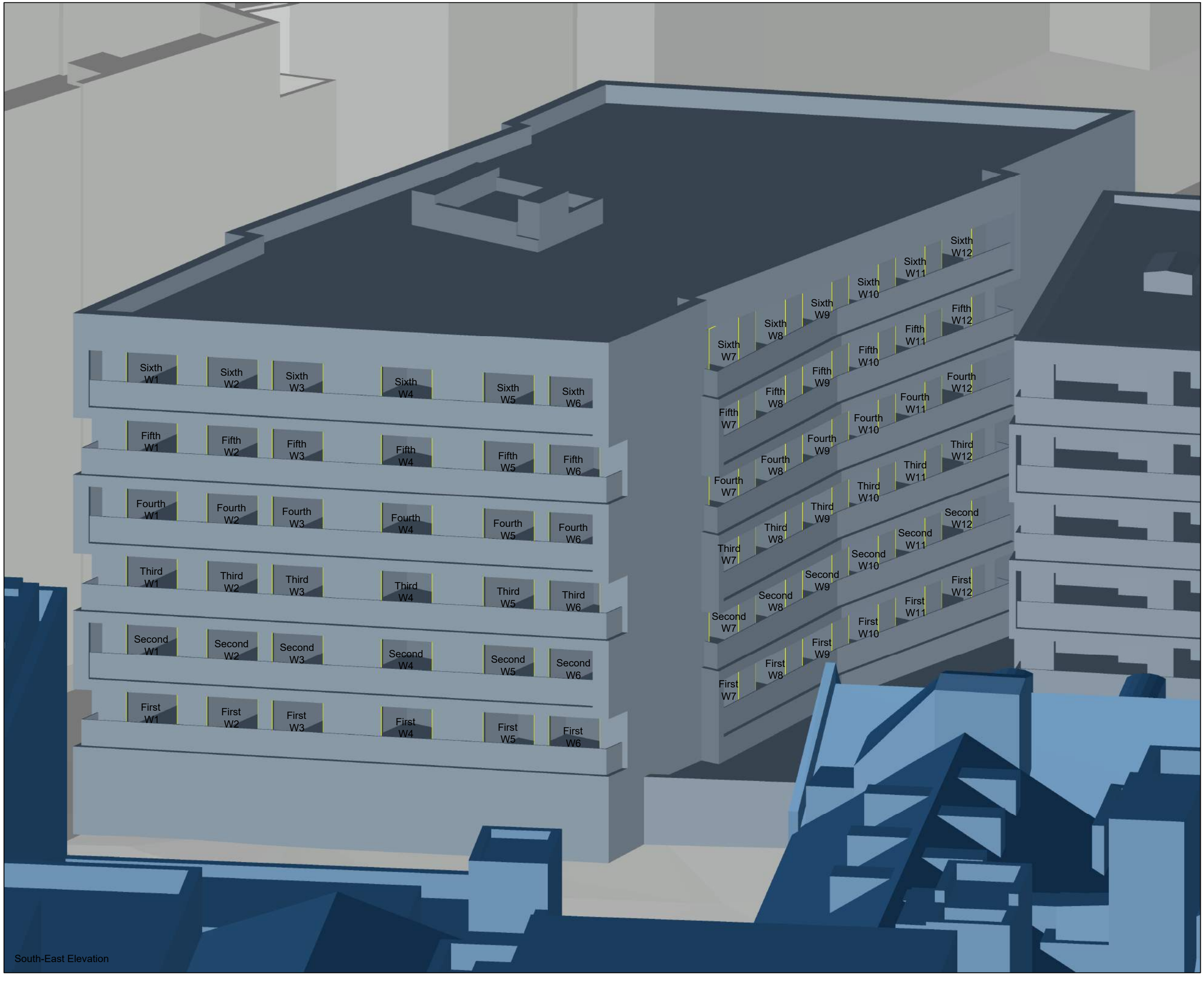

South-East Elevation



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SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

KEY
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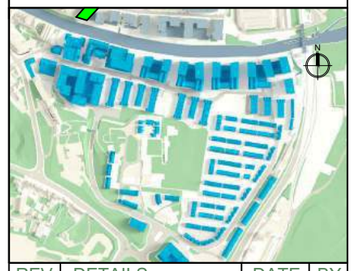
- Surrounding buildings
- XXXXX WX Window Location



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CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Window Maps
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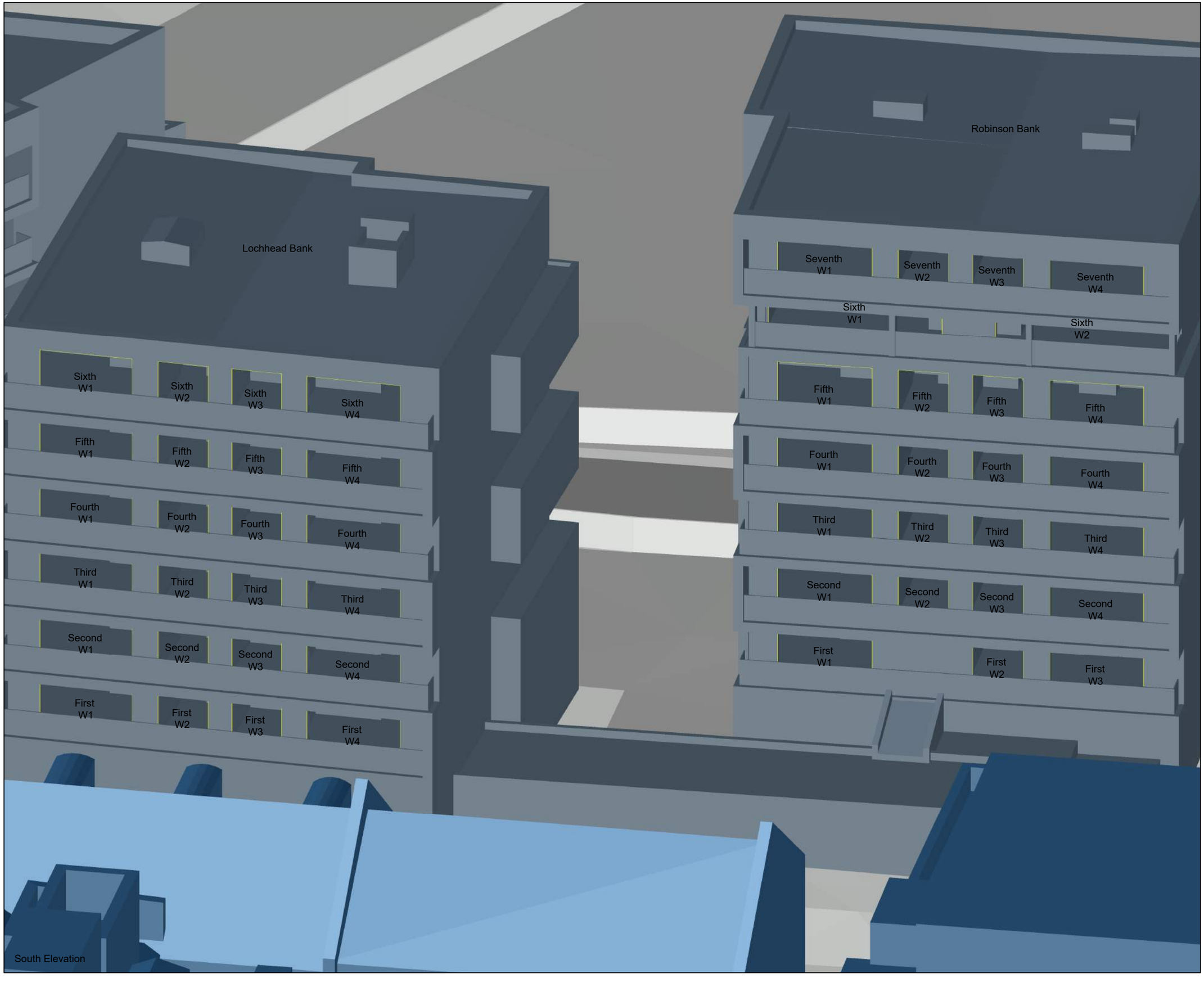




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SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

KEY
- Analysed properties
- Surrounding buildings
- XXXXX WX Window Location

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CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Window Maps
Lochhead Bank & Robinson Bank

| SCALE | DATE |
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| Not to Scale | Jul-22 |
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DO NOT SCALE

SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

KEY
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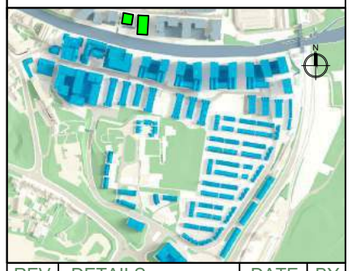
- Surrounding buildings
- XXXXX WX Window Location



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CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Window Maps
Nethercott Bank & Gavin Bank

| SCALE | DATE |
|---|---|
| Not to Scale | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
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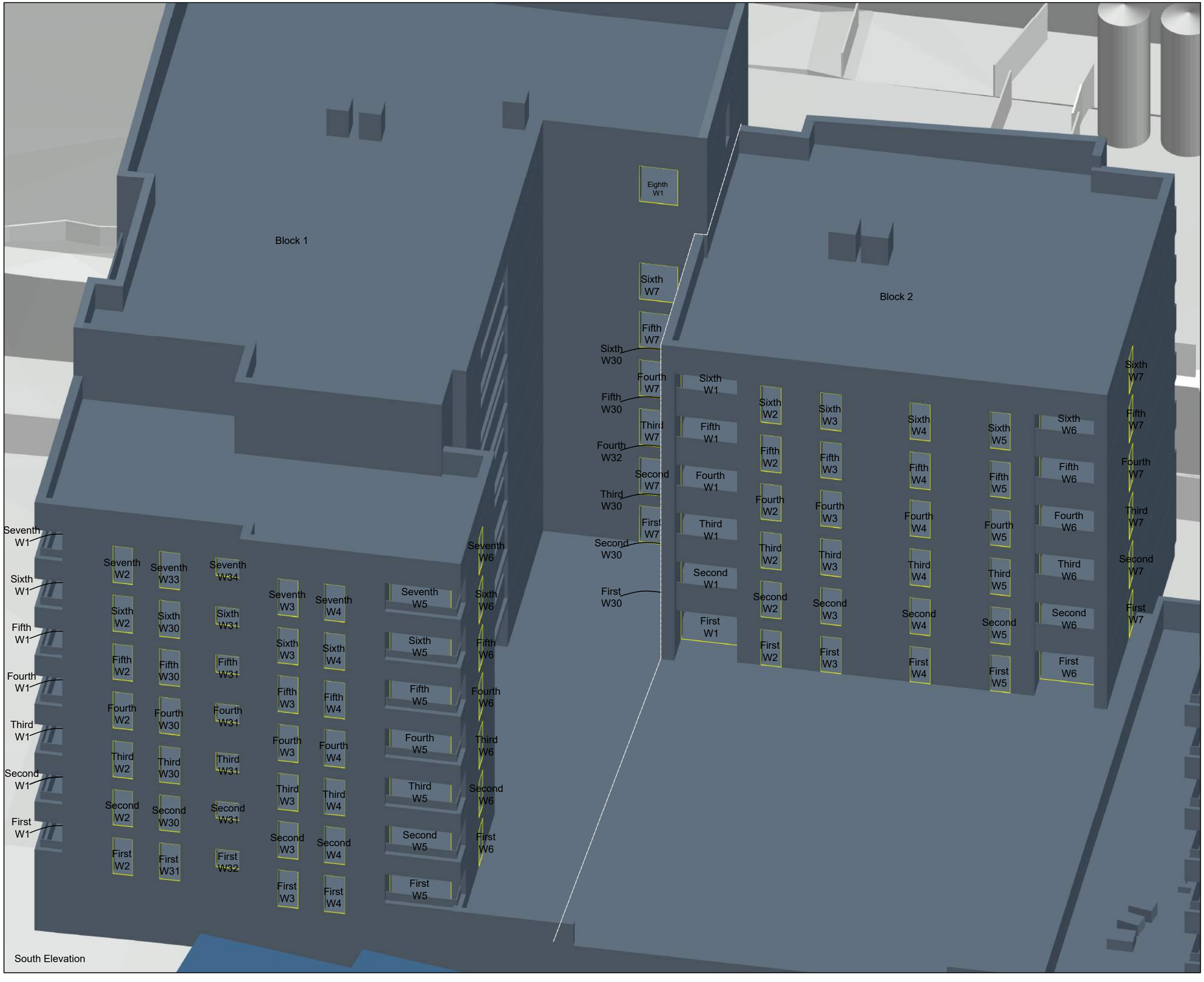
| D+S /1/ 303 | |

CONSIL






DO NOT SCALE

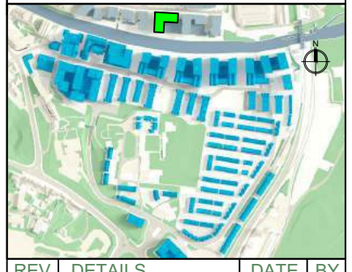
SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

KEY

- Analysed properties
- Surrounding buildings
- XXXXX WX — Window Location



| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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CLIENT
Fuel Properties

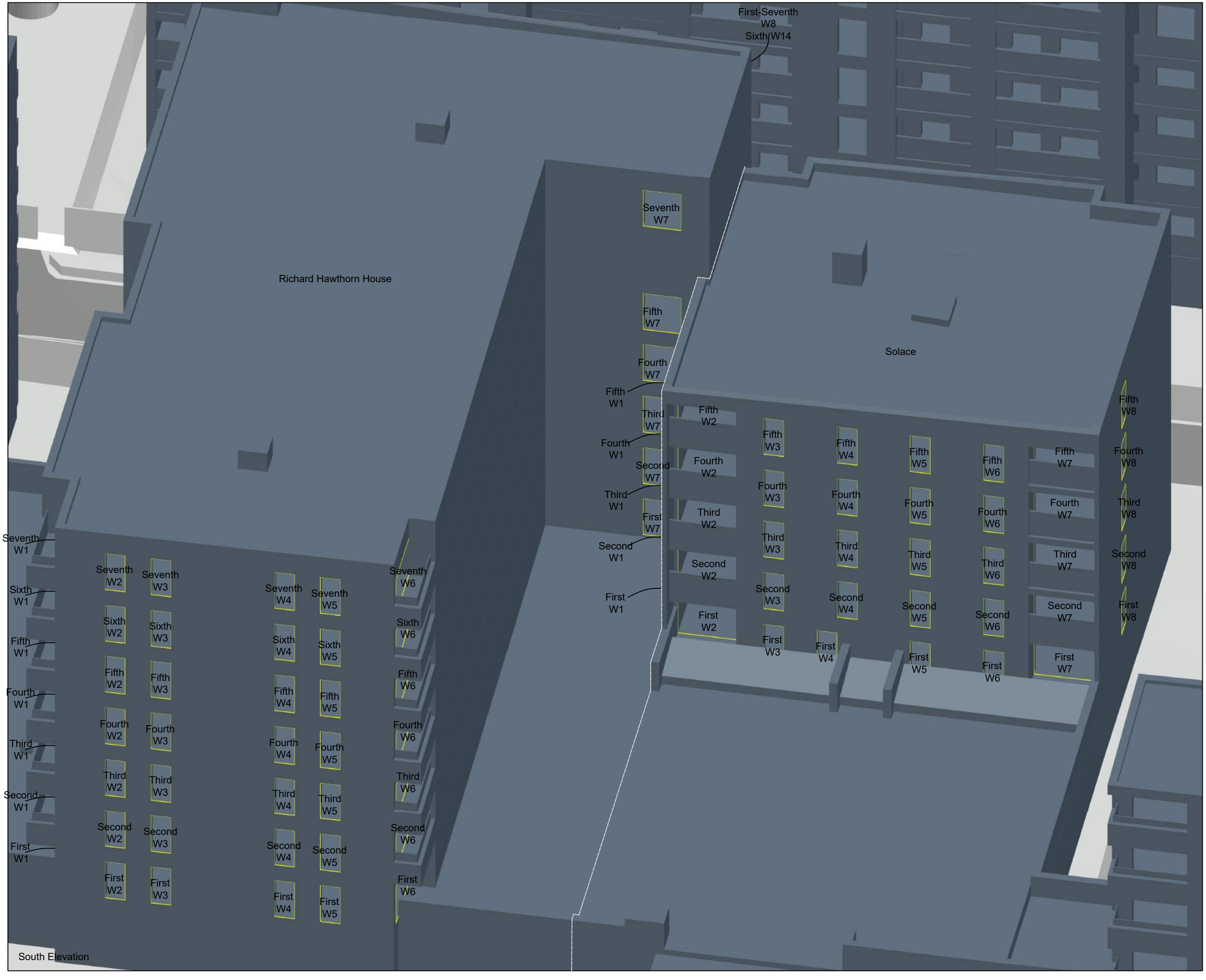
PROJECT
Carrow Works

DRAWING TITLE
Window Maps
Block 1 & Block 2 Geoffrey Watling Way

| SCALE | DATE |
|---|---|
| Not to Scale | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 304 | |

CONSIL






DO NOT SCALE

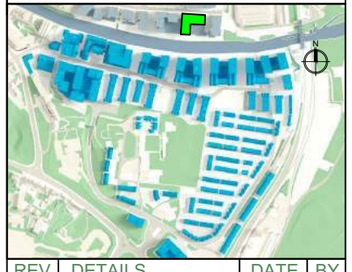
SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

KEY

- Analysed properties
- Surrounding buildings
- XXXXX WX Window Location



| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Window Maps
Richard Hawthorn House & Solace

| SCALE | DATE |
|---|---|
| Not to Scale | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 305 | |

CONSIL

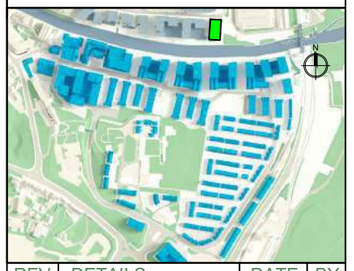



DO NOT SCALE

SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

KEY
- Analysed properties
- Surrounding buildings
- XXXXX WX Window Location



| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Window Maps
Patricia Hollis House

| SCALE | DATE |
|---|---|
| Not to Scale | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 306 | |

CONSIL


South Elevation



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

KEY

- Analysed properties
- Surrounding buildings
- XXXXX WX Window Location

| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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| | | | |

CLIENT
Fuel Properties

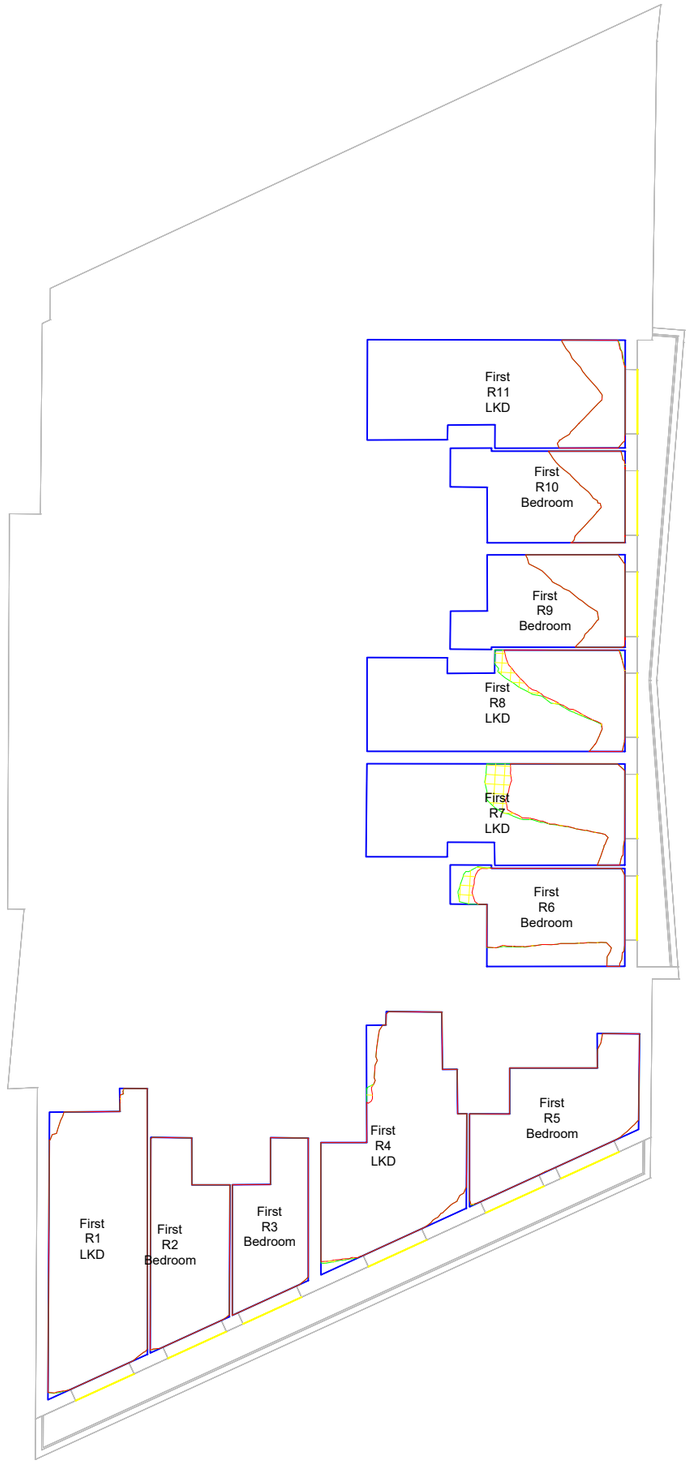
PROJECT
Carrow Works

DRAWING TITLE
Window Maps
Norada, White Moth, Olive

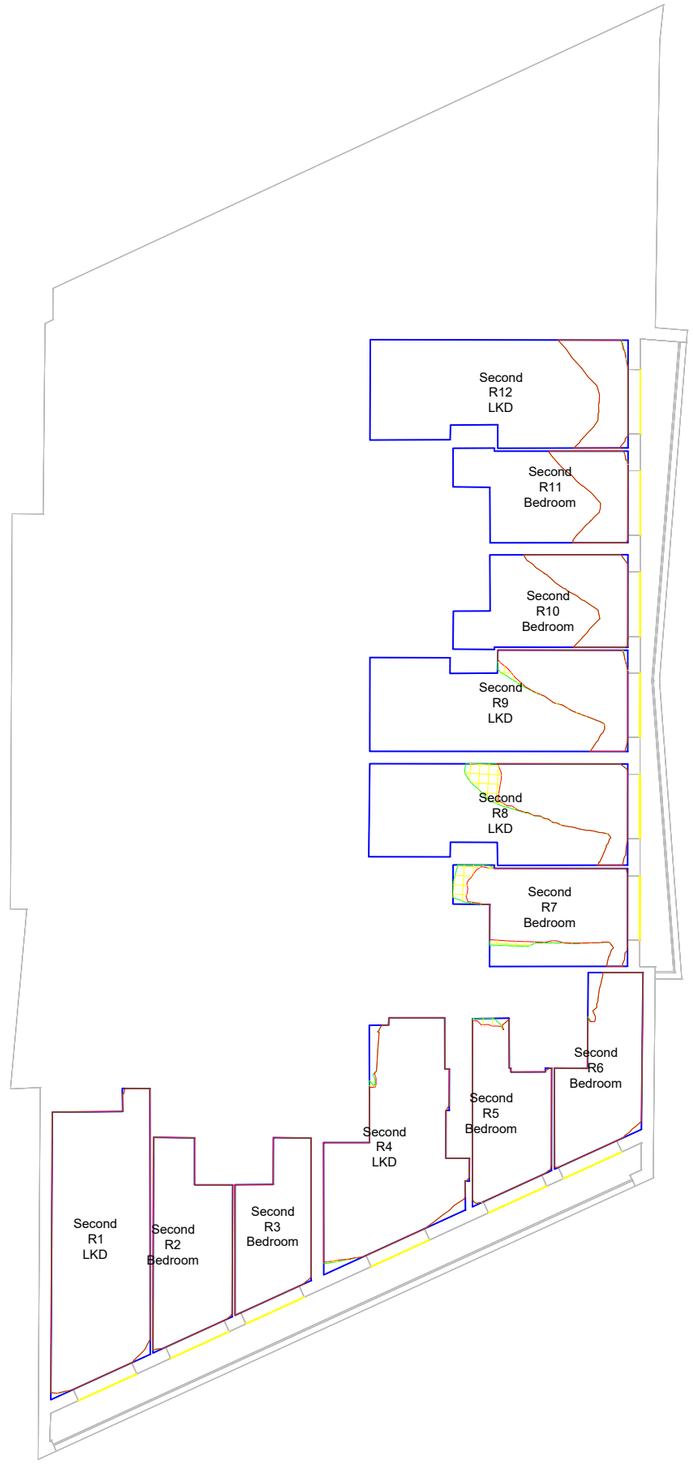
| SCALE | DATE |
|---|---|
| Not to Scale | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 307 | |

CONSIL




First Floor




Second Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain



| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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CLIENT
Fuel Properties

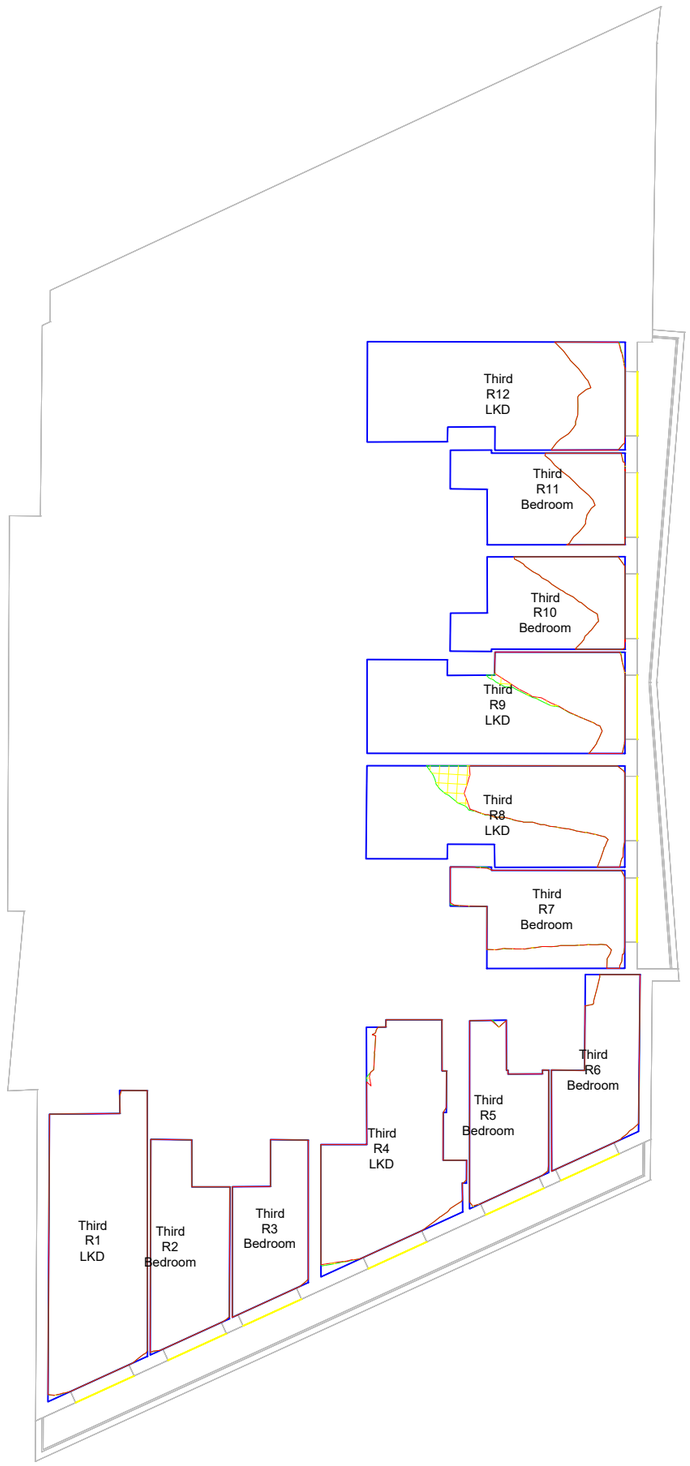
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Brennan Bank Geoffrey Watling Way

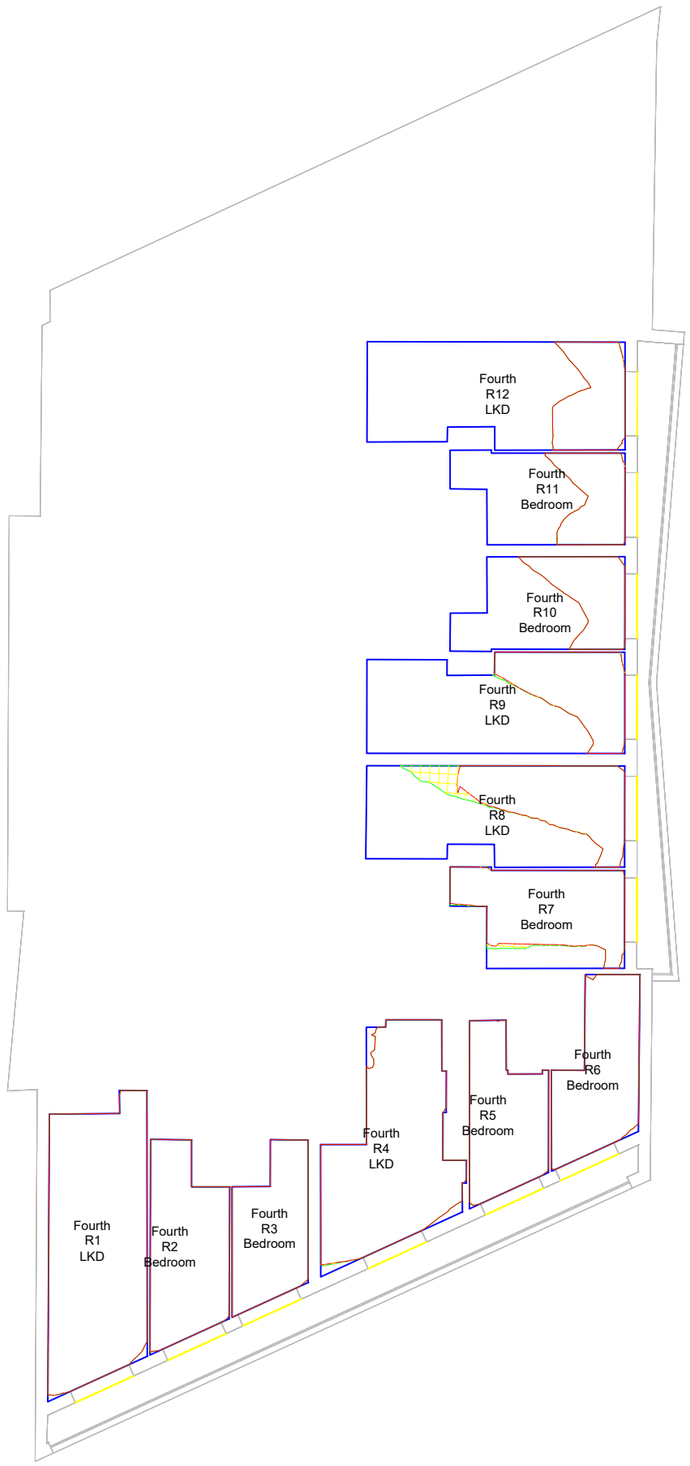
| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 201 | |

CONSIL




Third Floor




Fourth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain



| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
| | | | |
| | | | |

CLIENT
Fuel Properties

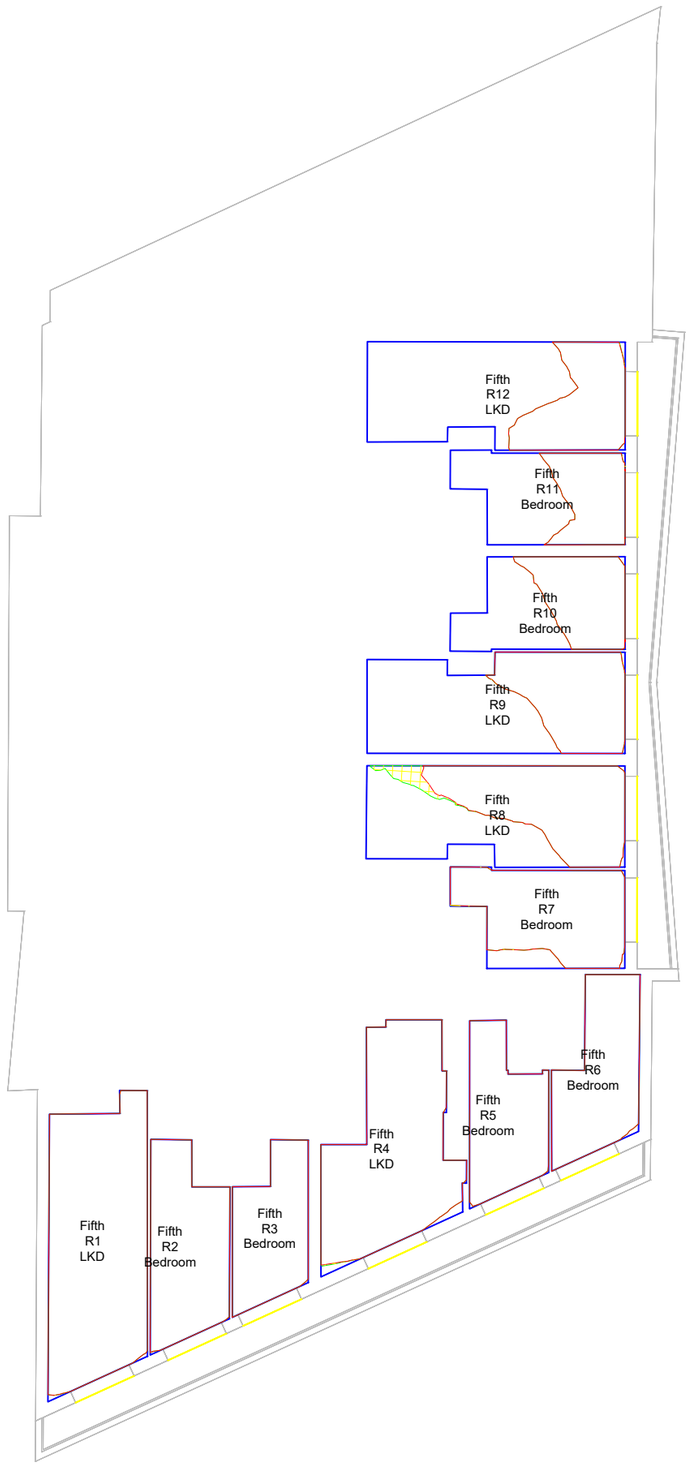
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Brennan Bank Geoffrey Watling Way

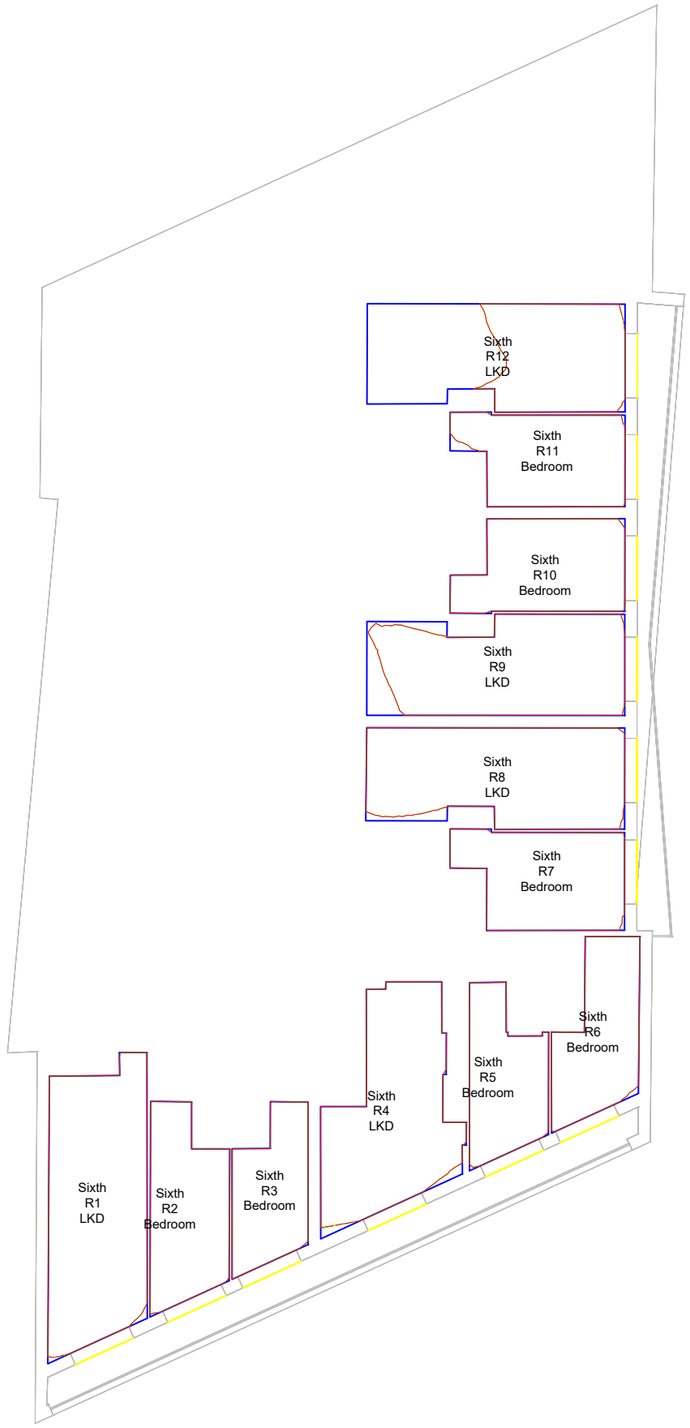
| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 202 | |

CONSIL




Fifth Floor




Sixth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain



| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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CLIENT
Fuel Properties

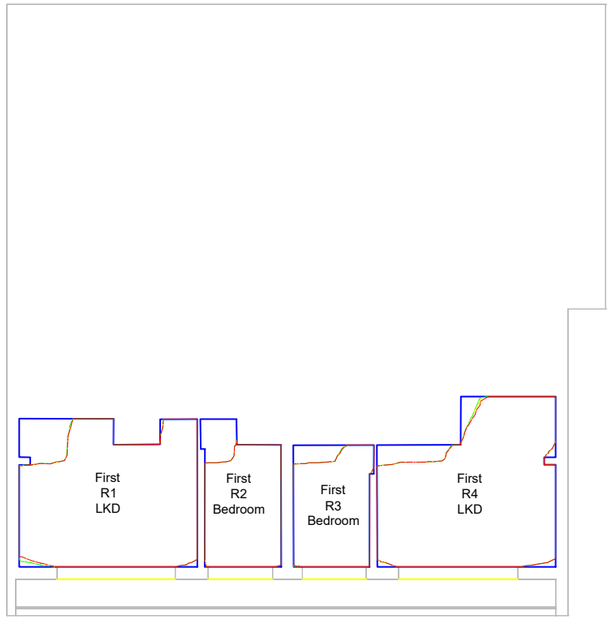
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Brennan Bank Geoffrey Watling Way

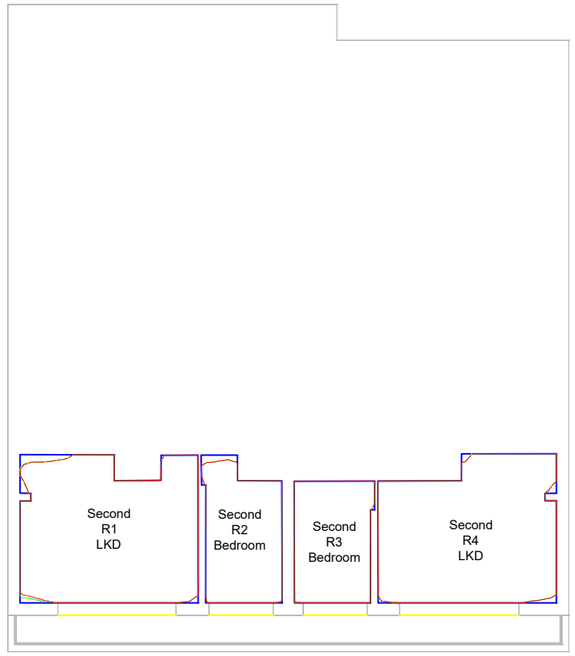
| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 203 | |

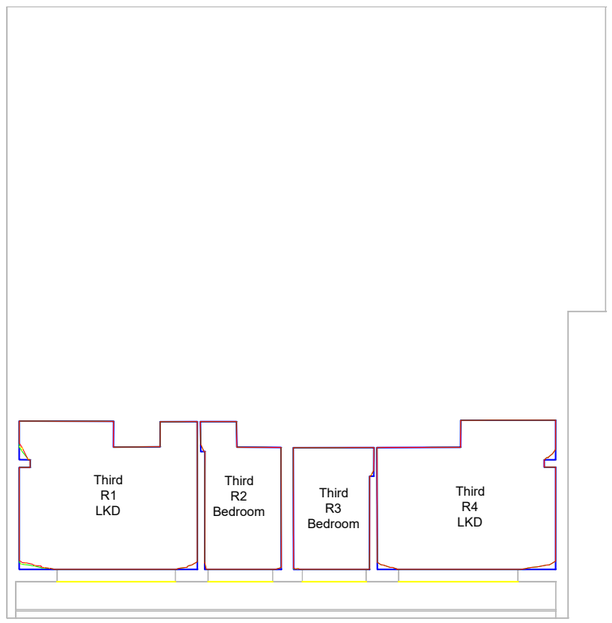
CONSIL



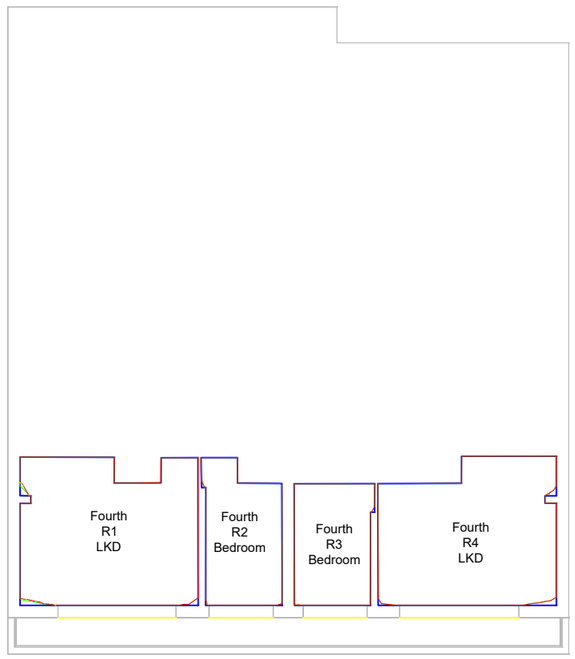

First Floor




Second Floor




Third Floor




Fourth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain



| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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CLIENT
Fuel Properties

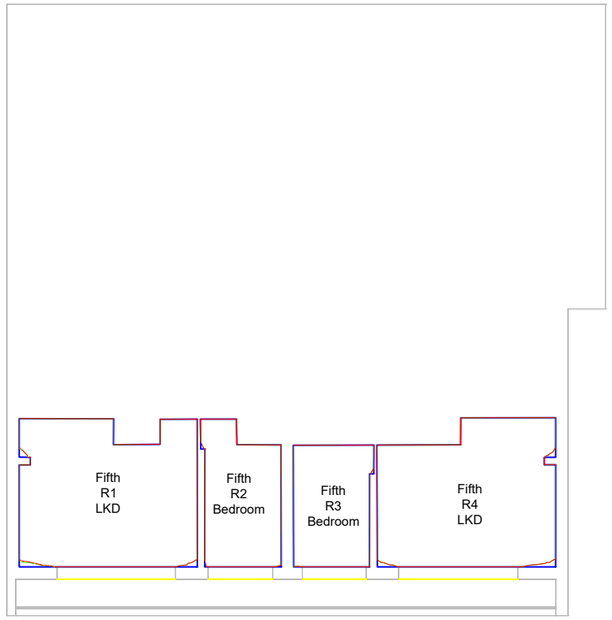
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Lochhead Bank Geoffrey Watling Way

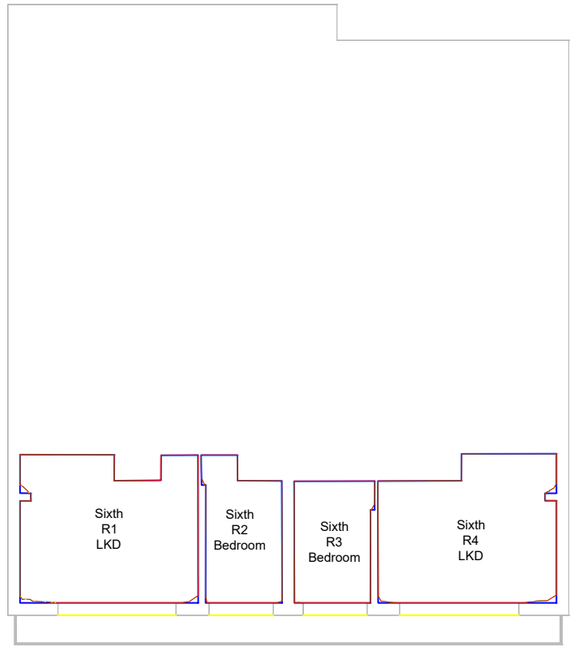
| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 204 | |

CONSIL




Fifth Floor




Sixth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain

| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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CLIENT
Fuel Properties

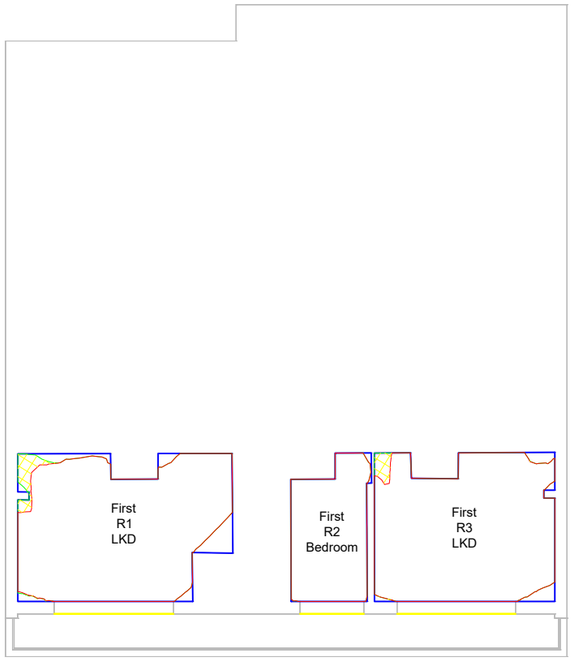
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Lochhead Bank Geoffrey Watling Way

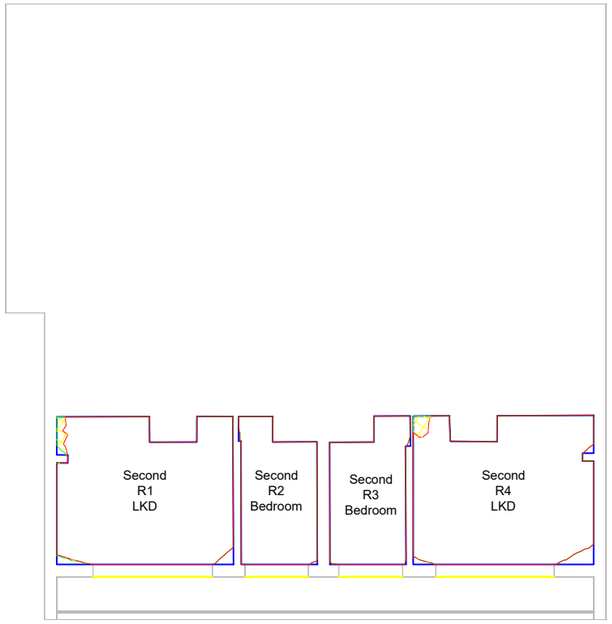
| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 205 | |

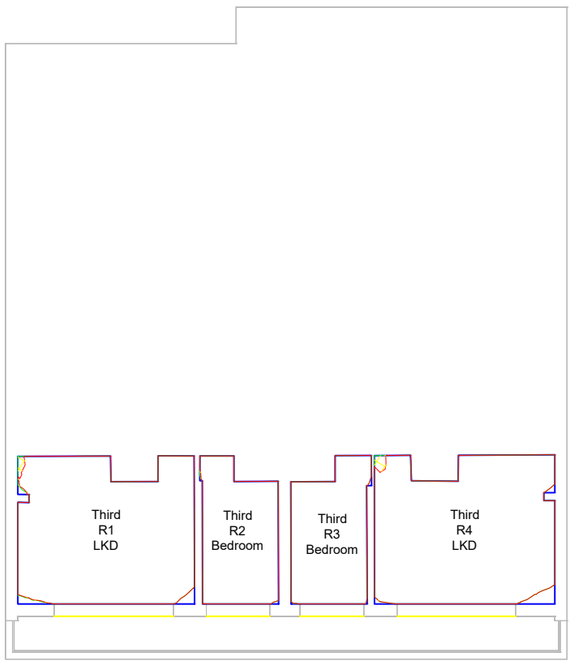
CONSIL



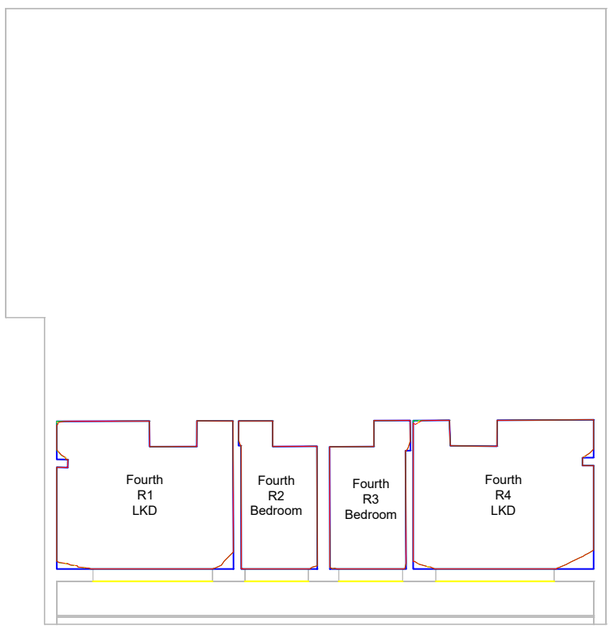

First Floor




Second Floor




Third Floor




Fourth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain




| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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CLIENT
Fuel Properties

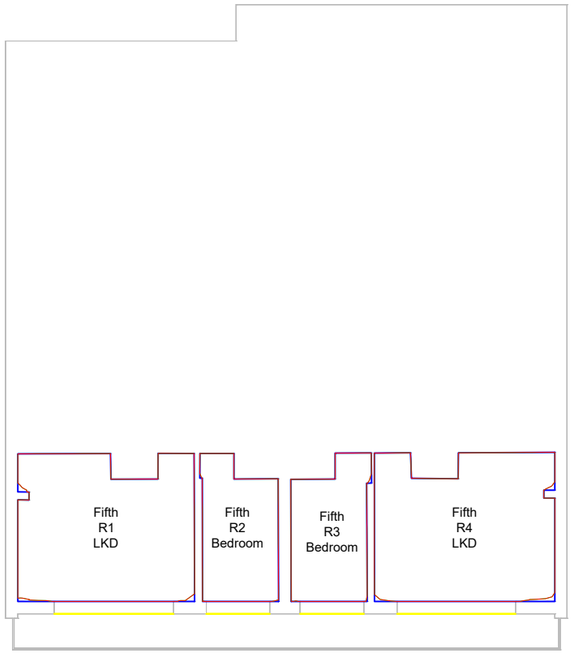
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Robinson Bank Geoffrey Watling Way

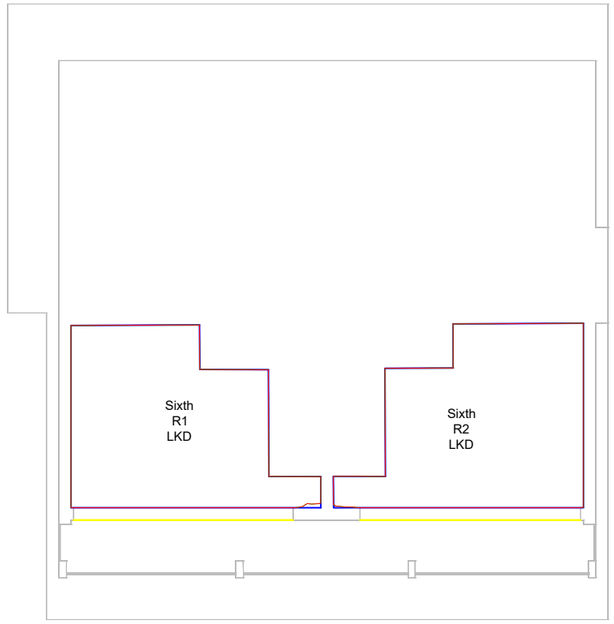
| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 206 | |

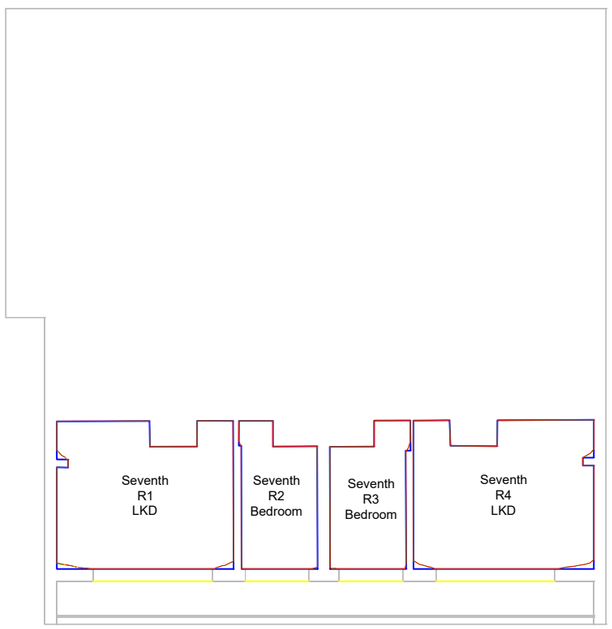
CONSIL




Fifth Floor




Sixth Floor




Seventh Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain



| REV | DETAILS | DATE | BY |
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CLIENT
Fuel Properties

PROJECT
Carrow Works

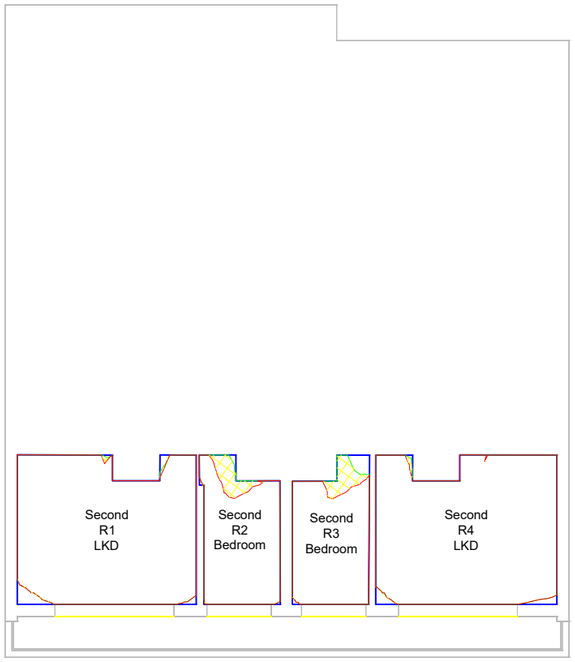
DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Robinson Bank Geoffrey Watling Way

| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

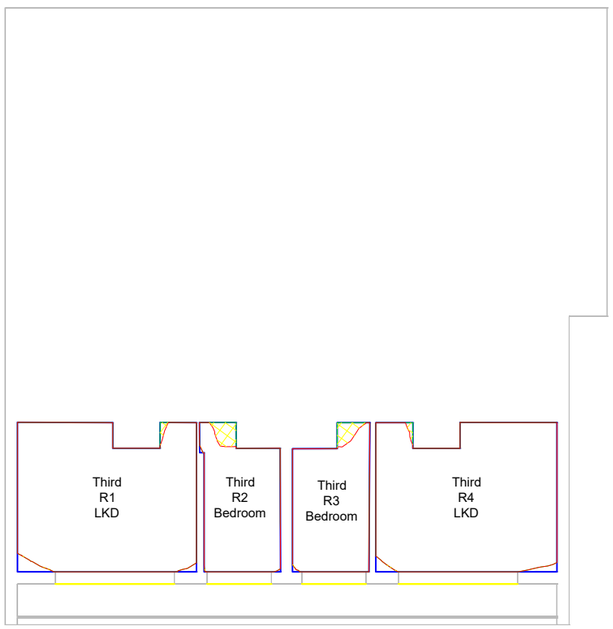
| DWG No. | REV. |
|---|---|
| D+S/1/ 207 | |

CONSIL

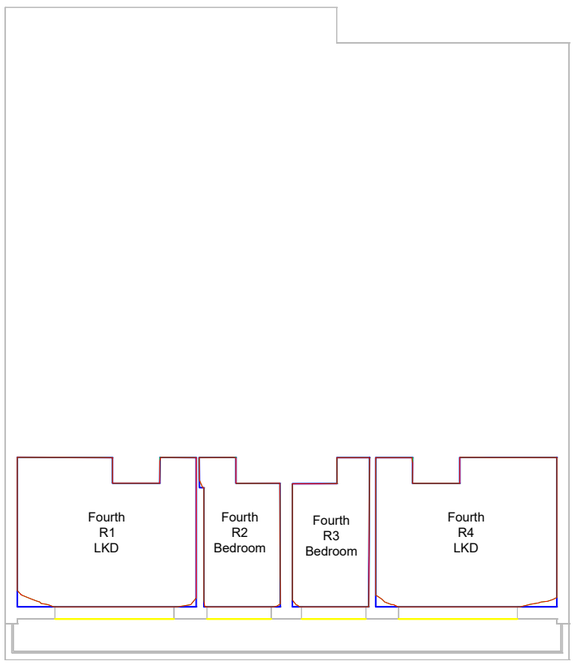

First Floor




Second Floor




Third Floor




Fourth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain


| REV | DETAILS | DATE | BY |
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| A | * | * | * |
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CLIENT
Fuel Properties

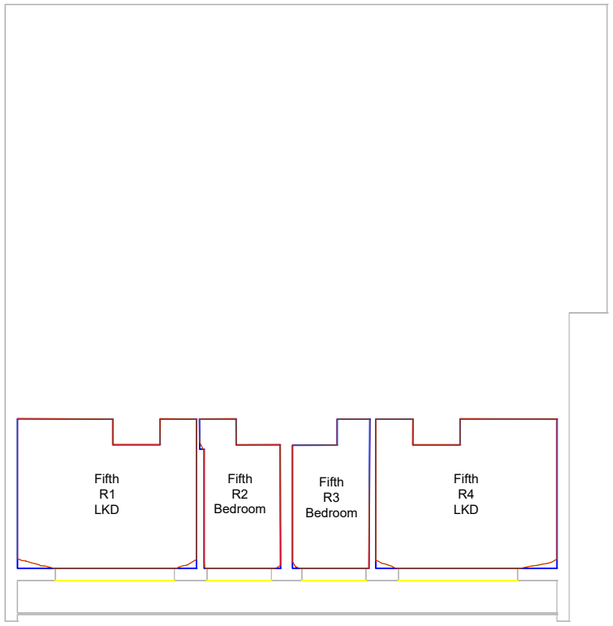
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Nethercott Bank Geoffrey Watling Way

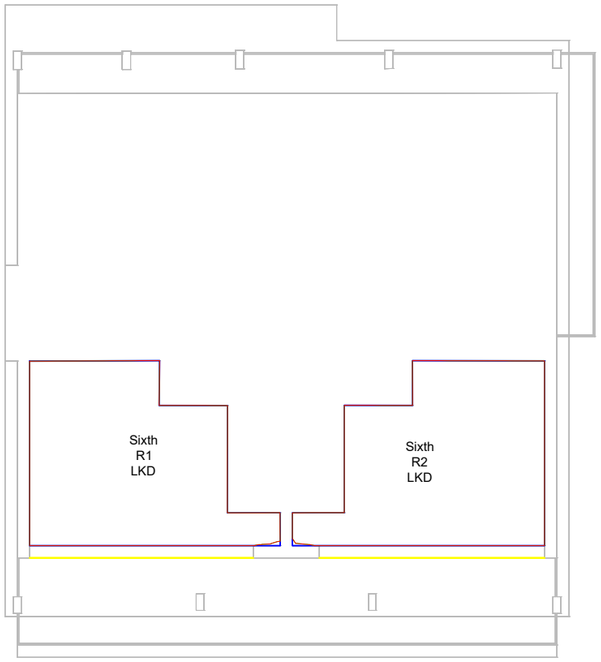
| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 208 | |

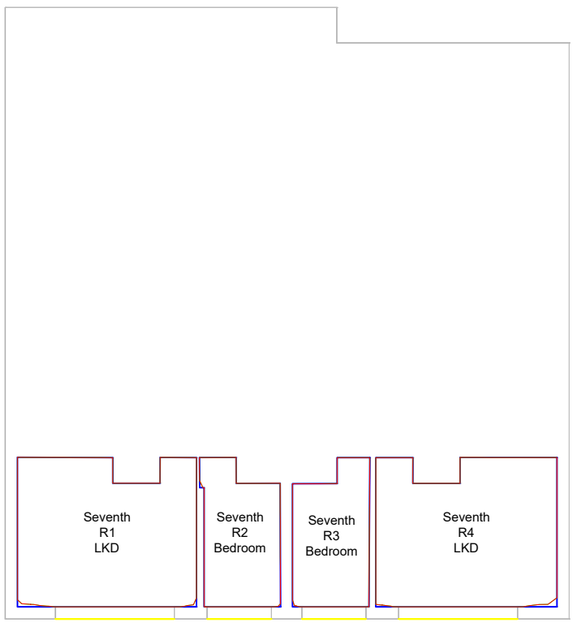
CONSIL




Fifth Floor




Sixth Floor




Seventh Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain



| REV | DETAILS | DATE | BY |
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CLIENT
Fuel Properties

PROJECT
Carrow Works

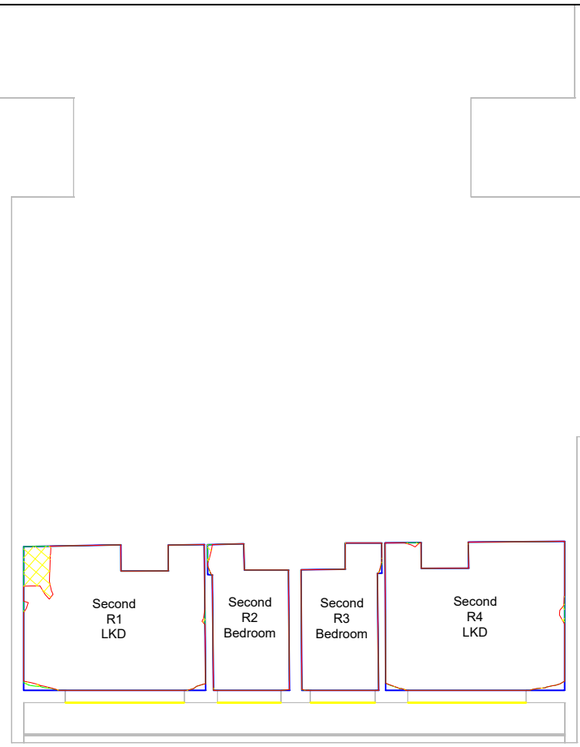
DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Nethercott Bank Geoffrey Watling Way

| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

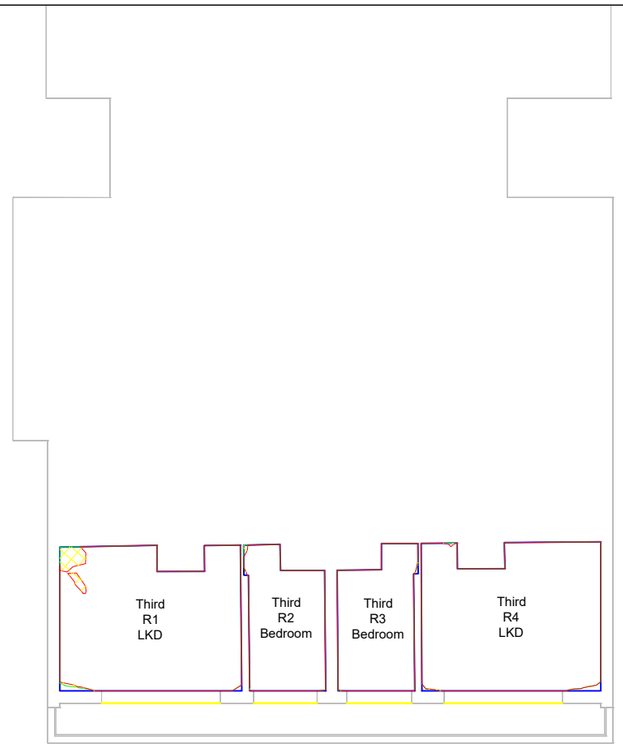
| DWG No. | REV. |
|---|---|
| D+S /1/ 209 | |

CONSIL

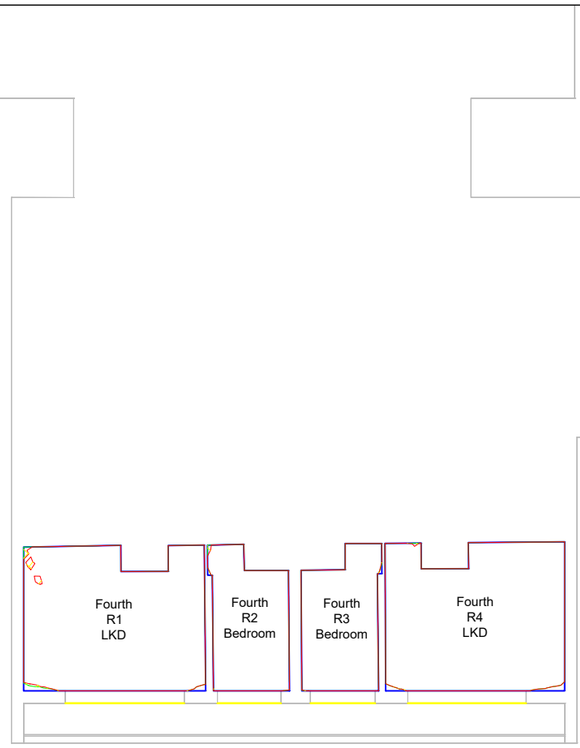

First Floor




Second Floor




Third Floor




Fourth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain




| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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CLIENT
Fuel Properties

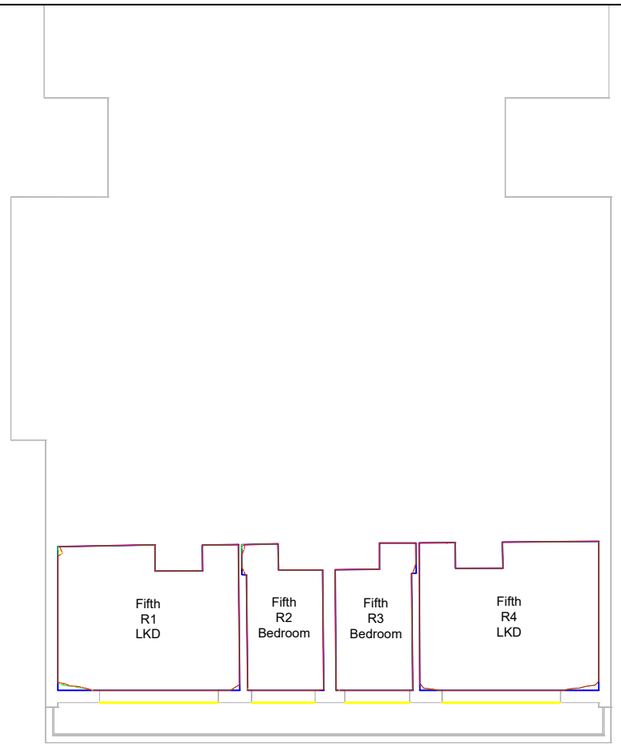
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Gavin Bank Geoffrey Watling Way

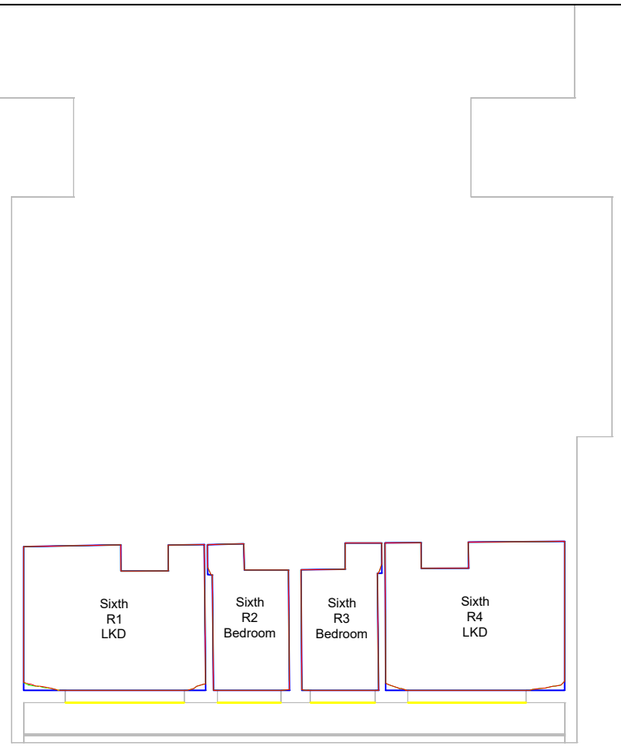
| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S/1/ 210 | |

CONSIL




Fifth Floor




Sixth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain


| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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CLIENT
Fuel Properties

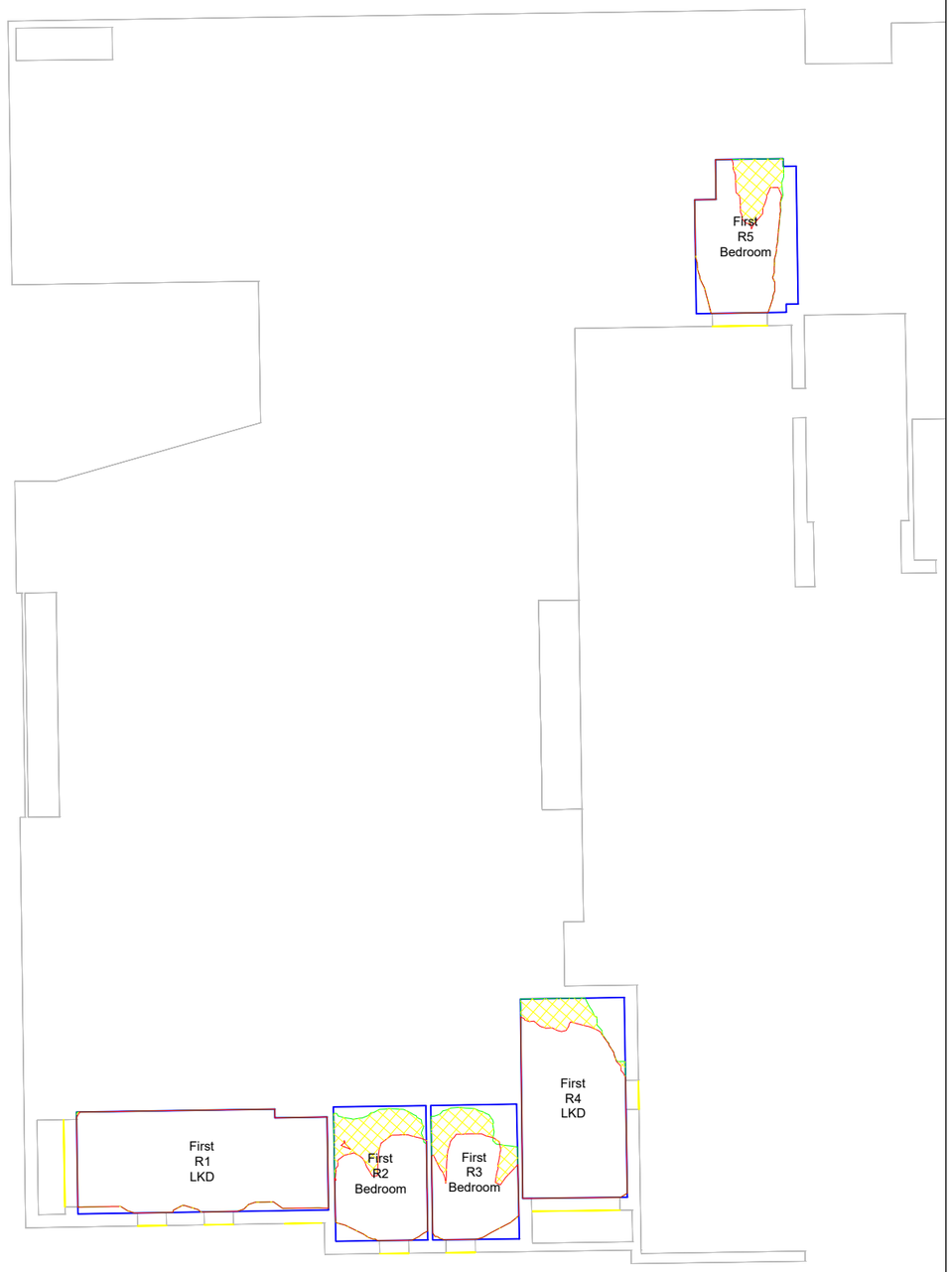
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Gavin Bank Geoffrey Watling Way

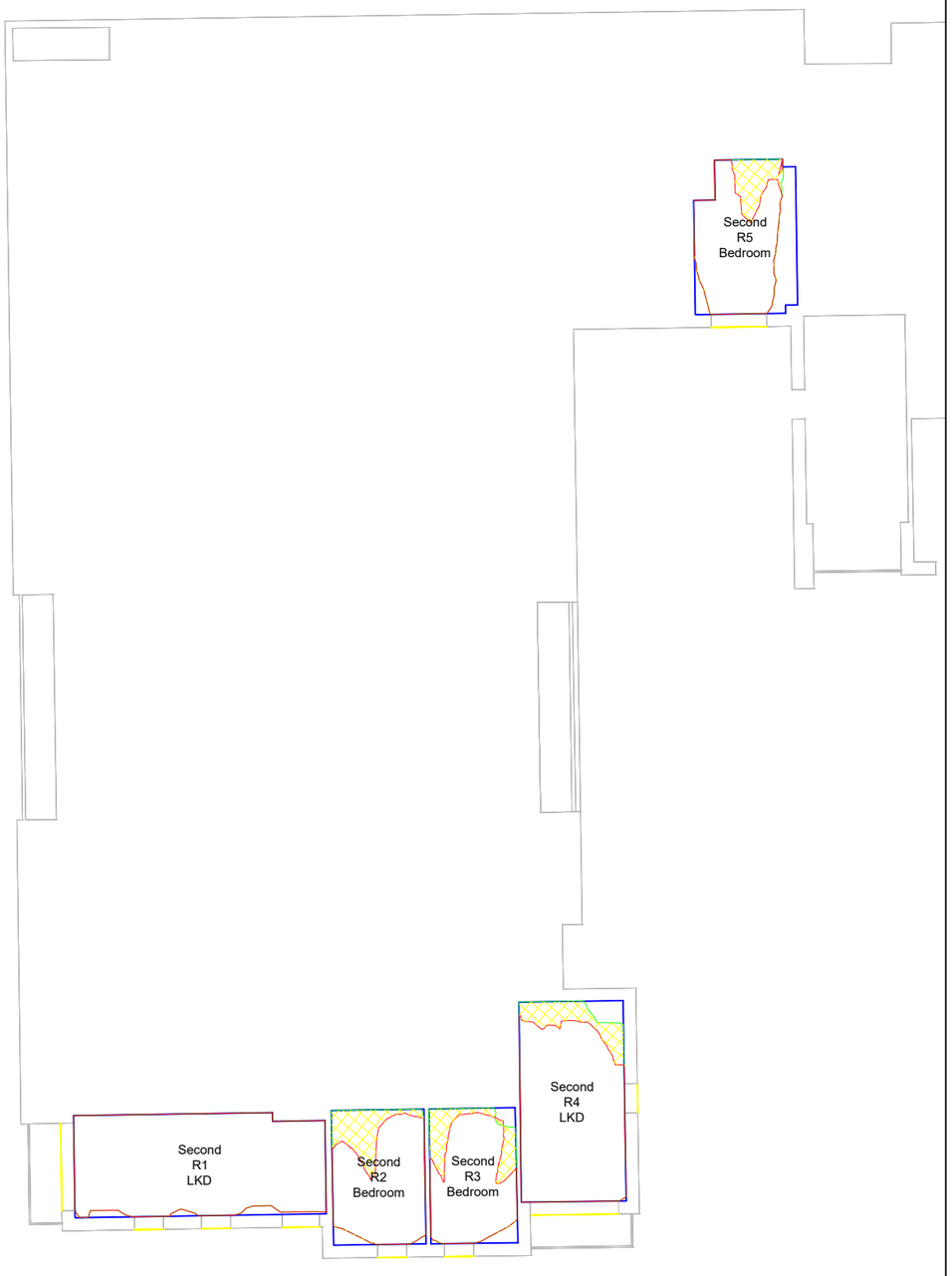
| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S/1/ 211 | |

CONSIL




First Floor




Second Floor



DO NOT SCALE

SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

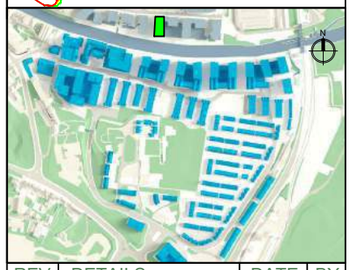
KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain




| REV | DETAILS | DATE | BY |
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CLIENT
Fuel Properties

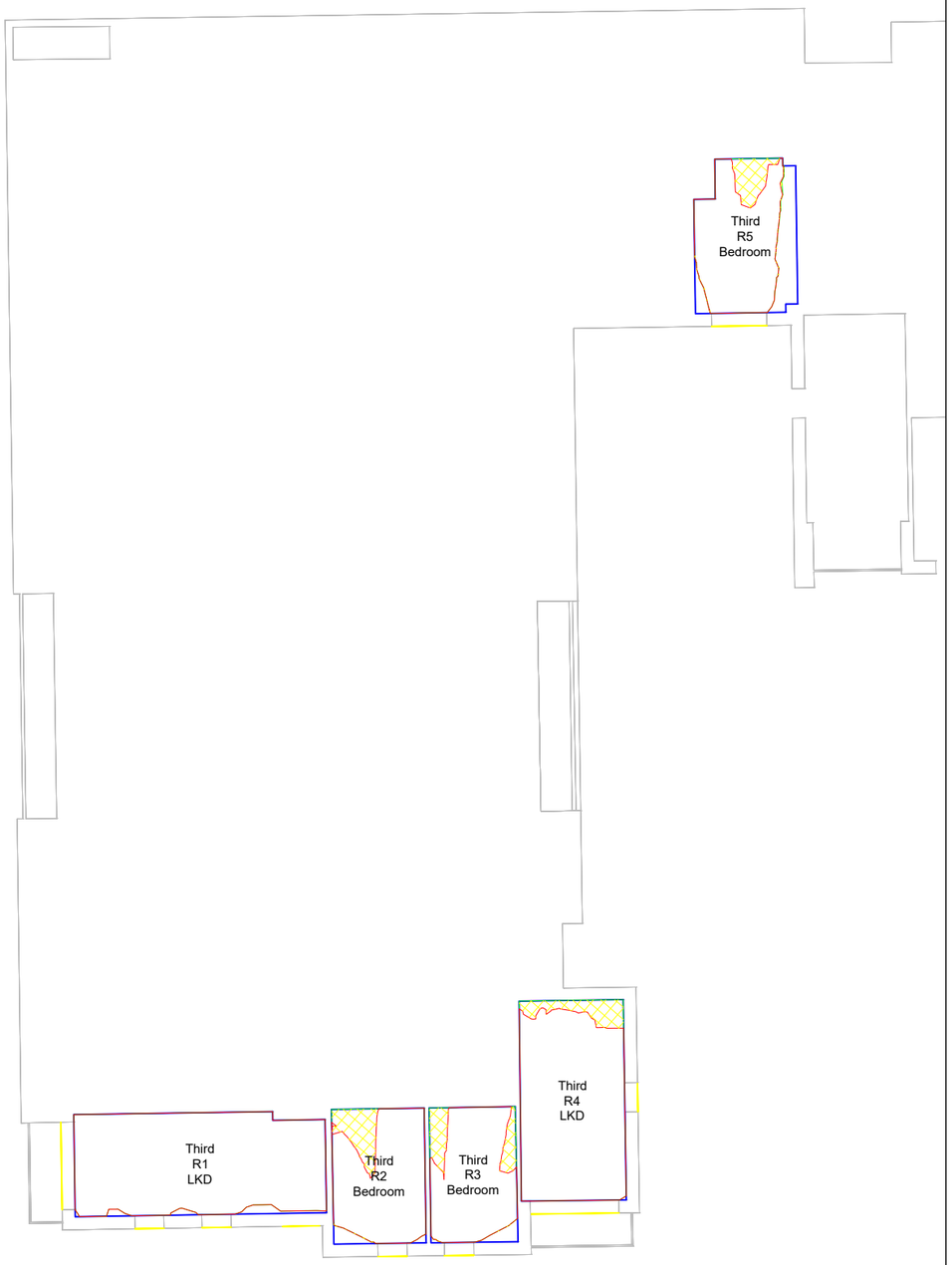
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Block R1 Geoffrey Watling Way

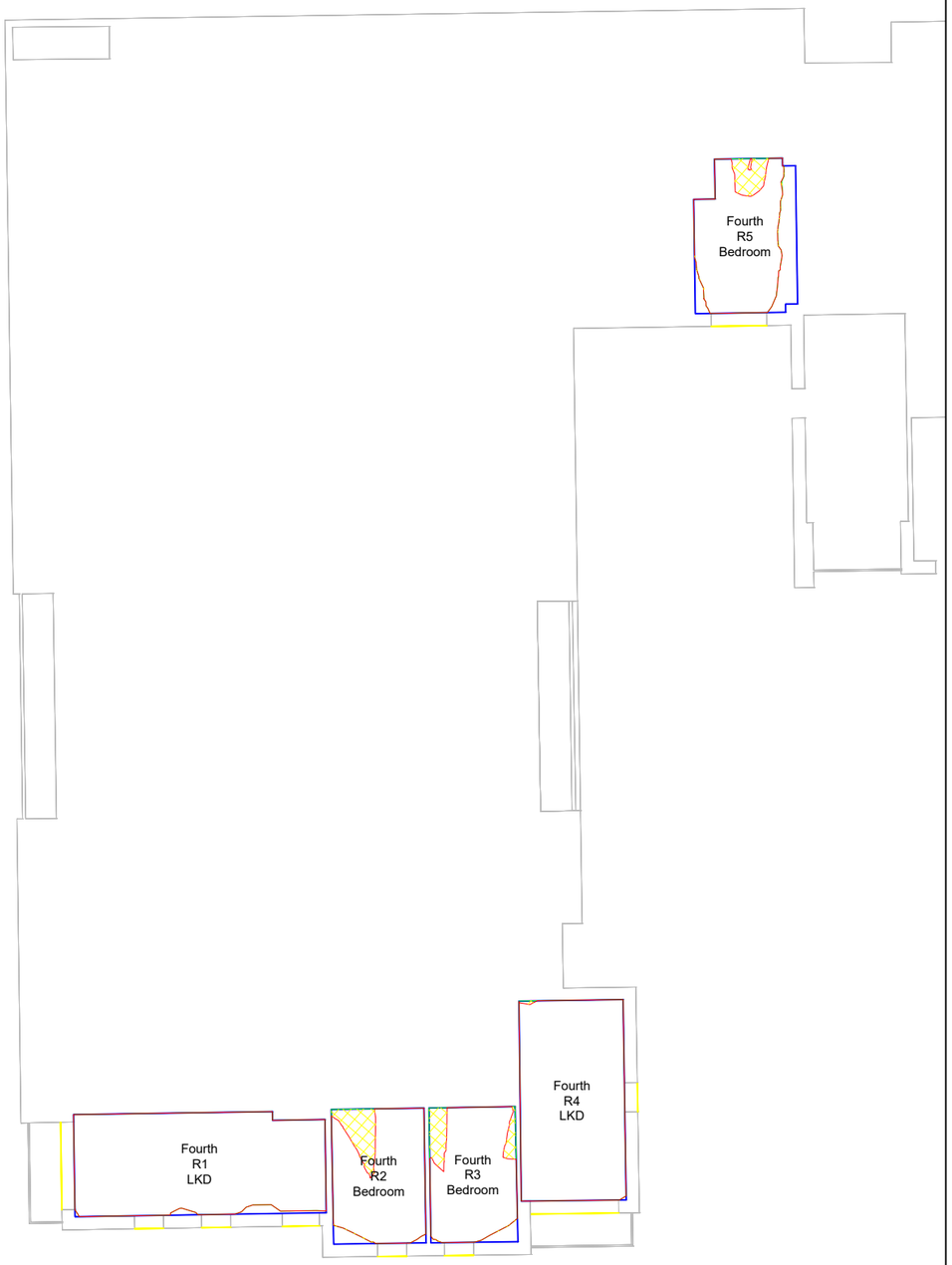
| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 212 | |

CONSIL




Third Floor




Fourth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

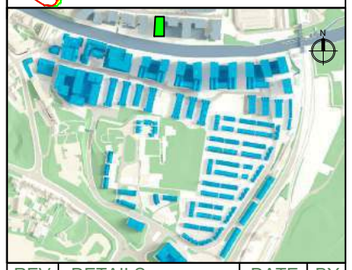
KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain




| REV | DETAILS | DATE | BY |
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CLIENT
Fuel Properties

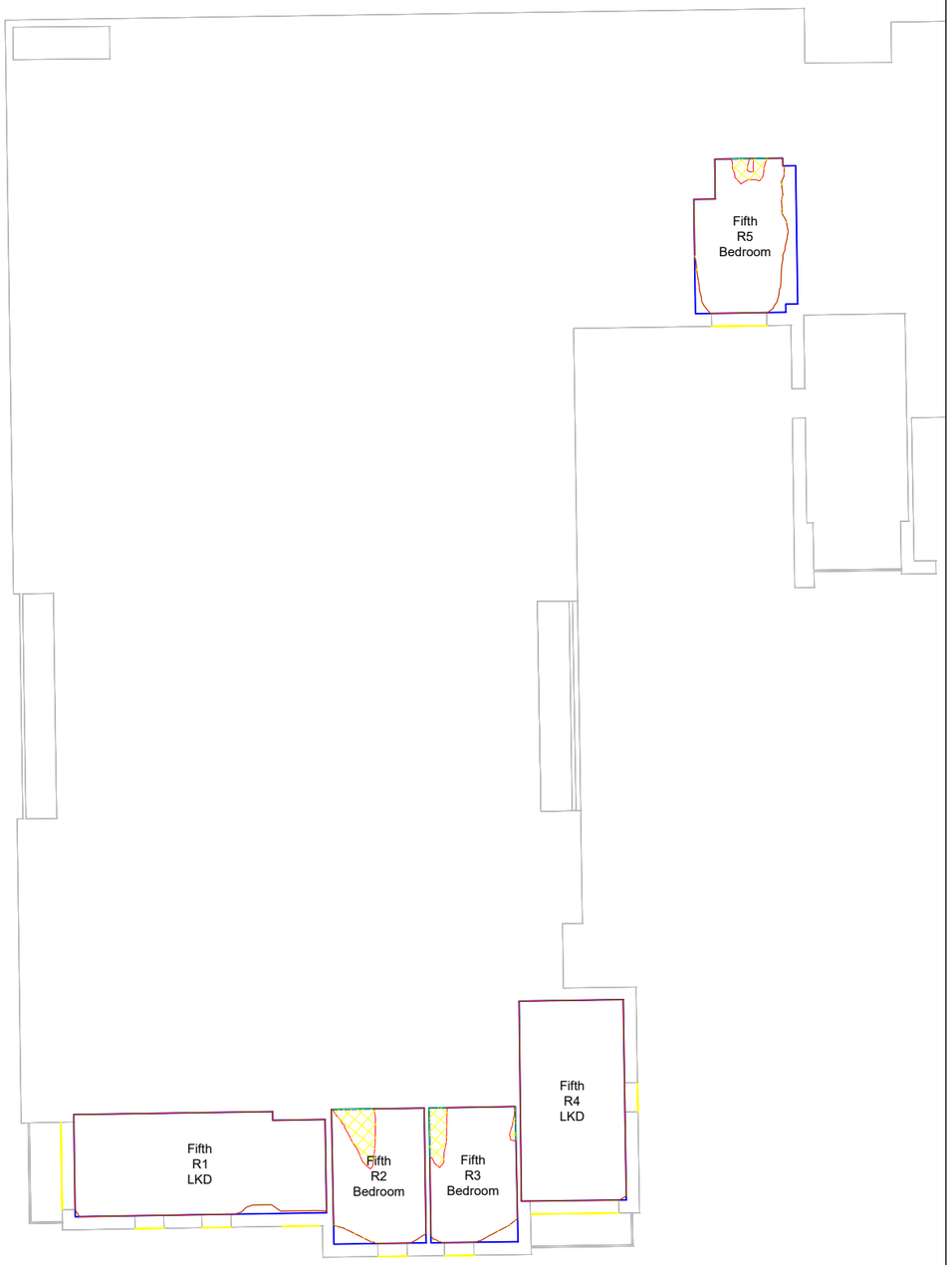
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Block R1 Geoffrey Watling Way

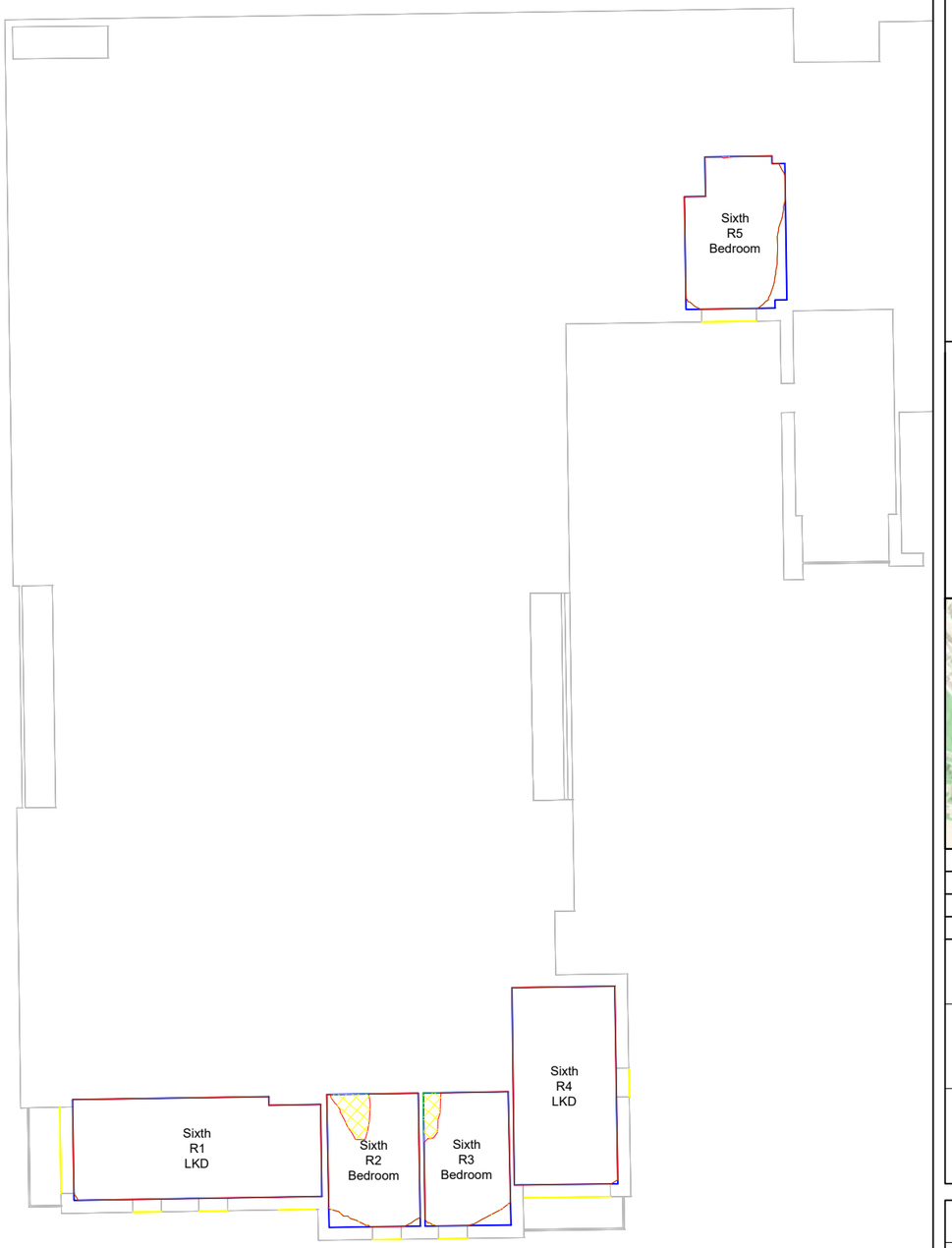
| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 213 | |

CONSIL




Fifth Floor




Sixth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

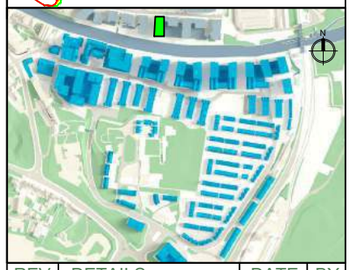
KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain




| REV | DETAILS | DATE | BY |
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CLIENT
Fuel Properties

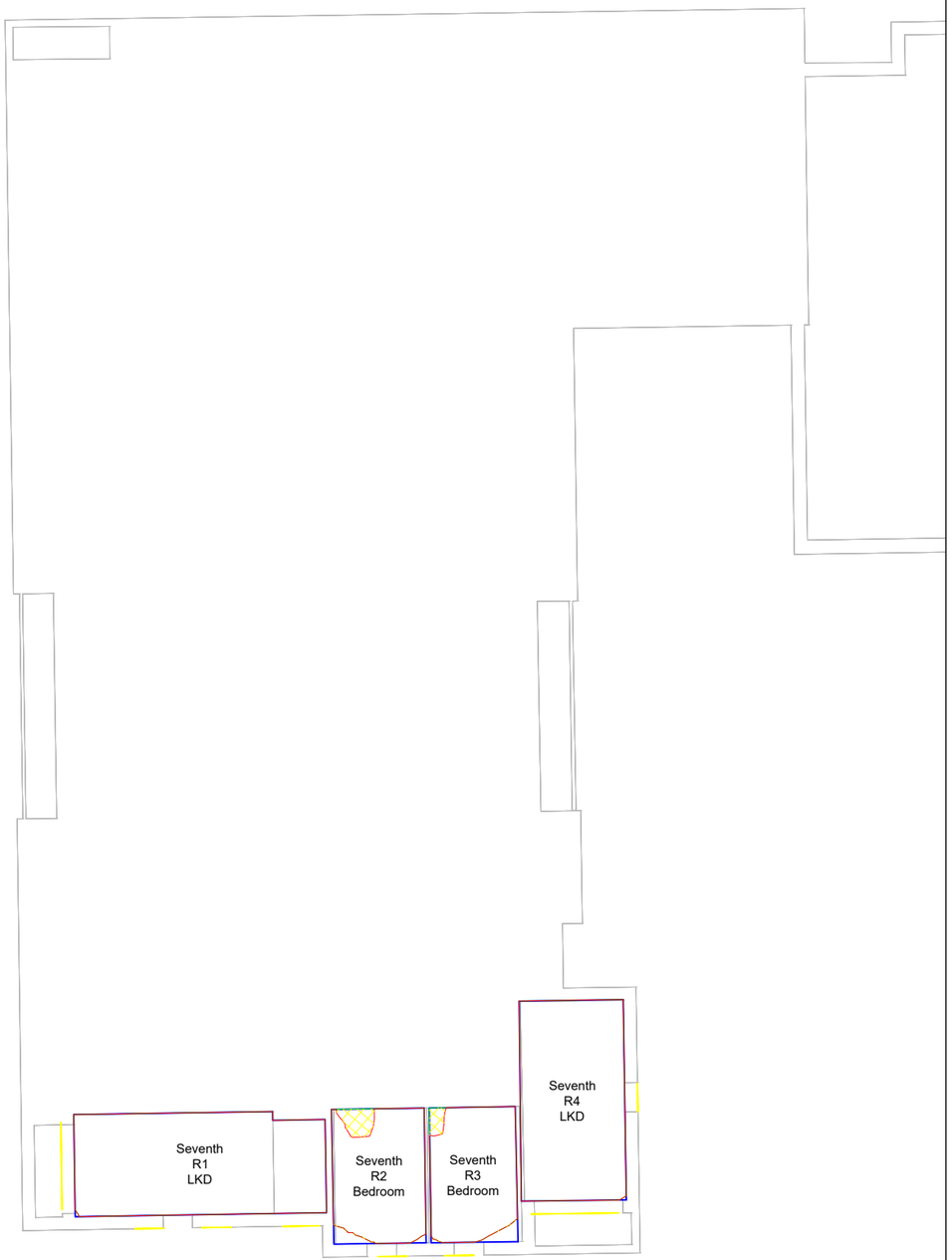
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Block R1 Geoffrey Watling Way

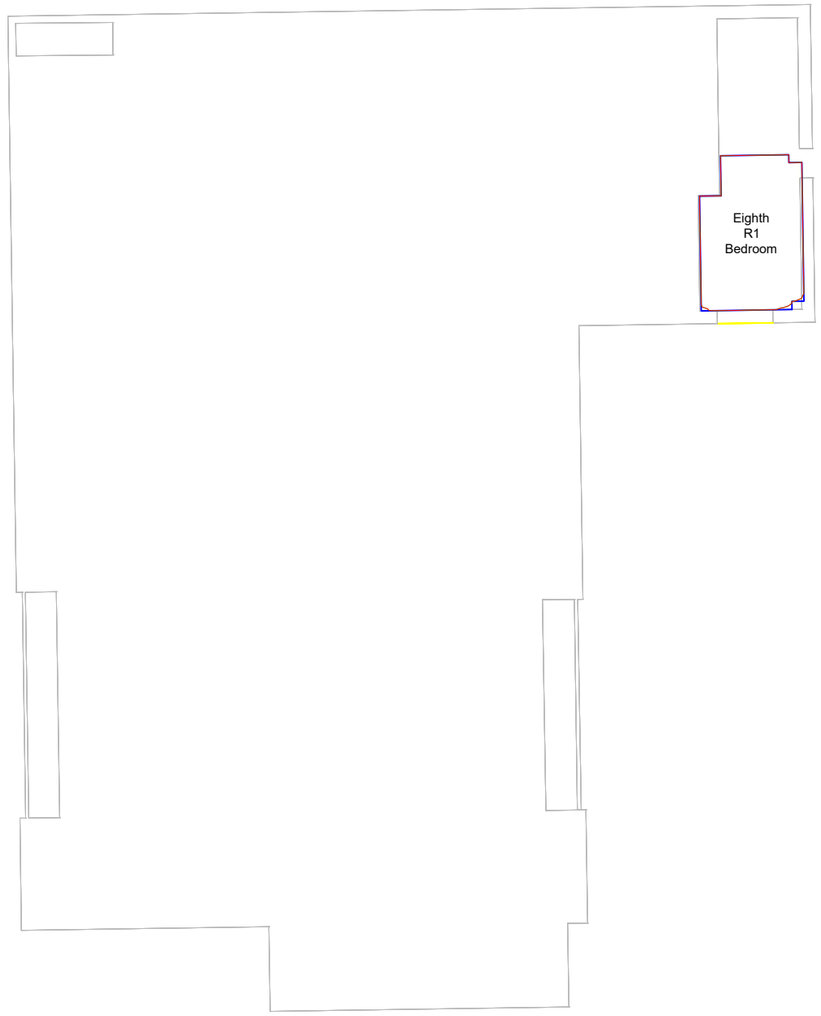
| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 214 | |

CONSIL




Seventh Floor




Eighth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

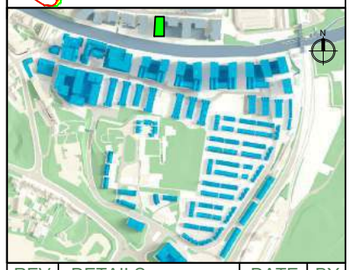
KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain




| REV | DETAILS | DATE | BY |
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CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Block R1 Geoffrey Watling Way

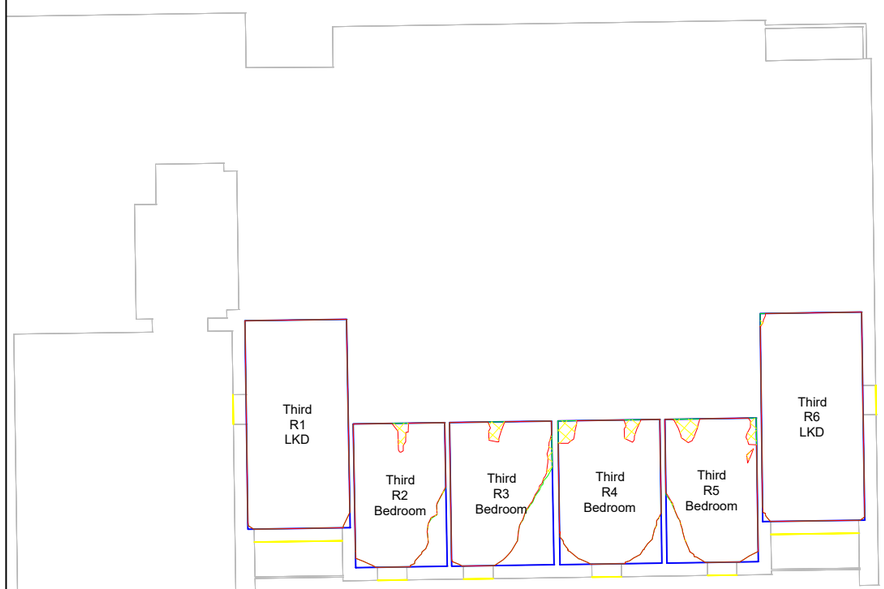
| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 215 | |

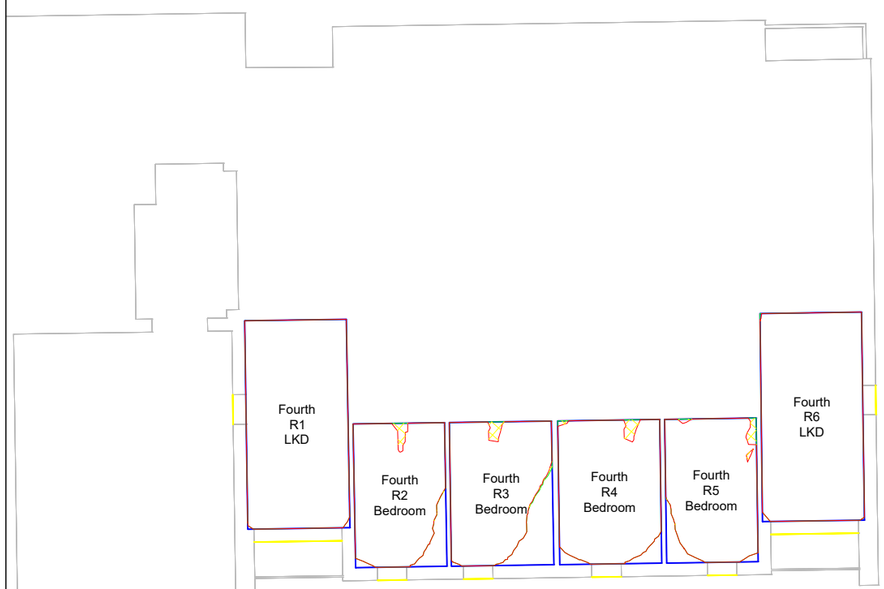
CONSIL


First Floor


Second Floor




Third Floor




Fourth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain




| REV | DETAILS | DATE | BY |
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CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Block R2 Geoffrey Watling Way

| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
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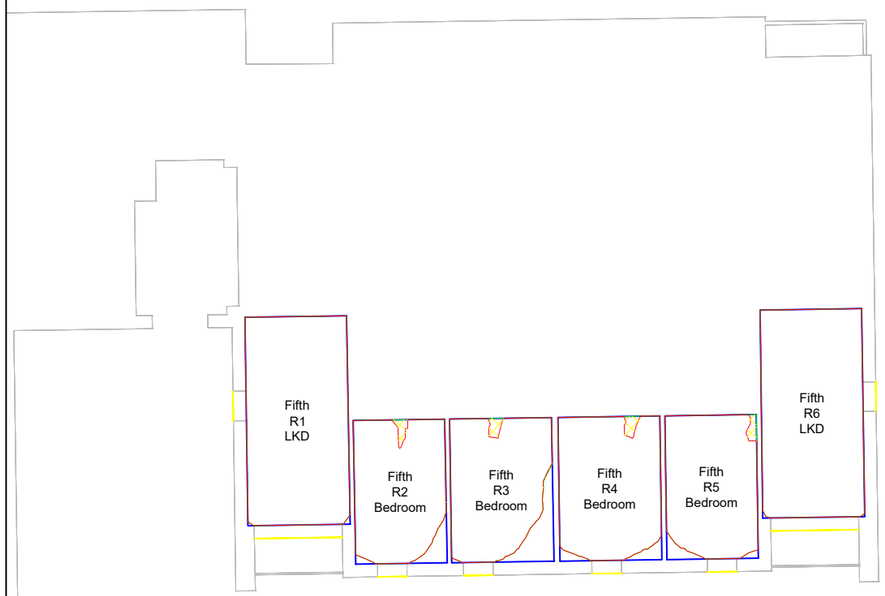
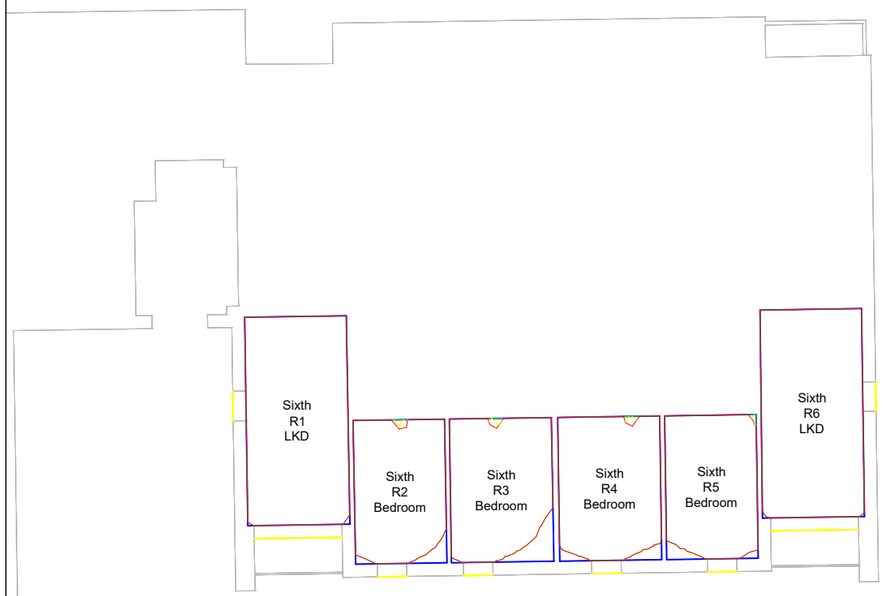
| D+S /1/ 216 | |

CONSIL




Fifth Floor




Sixth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain


| REV | DETAILS | DATE | BY |
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CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Block R2 Geoffrey Watling Way

| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
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| DWG No. | REV. |
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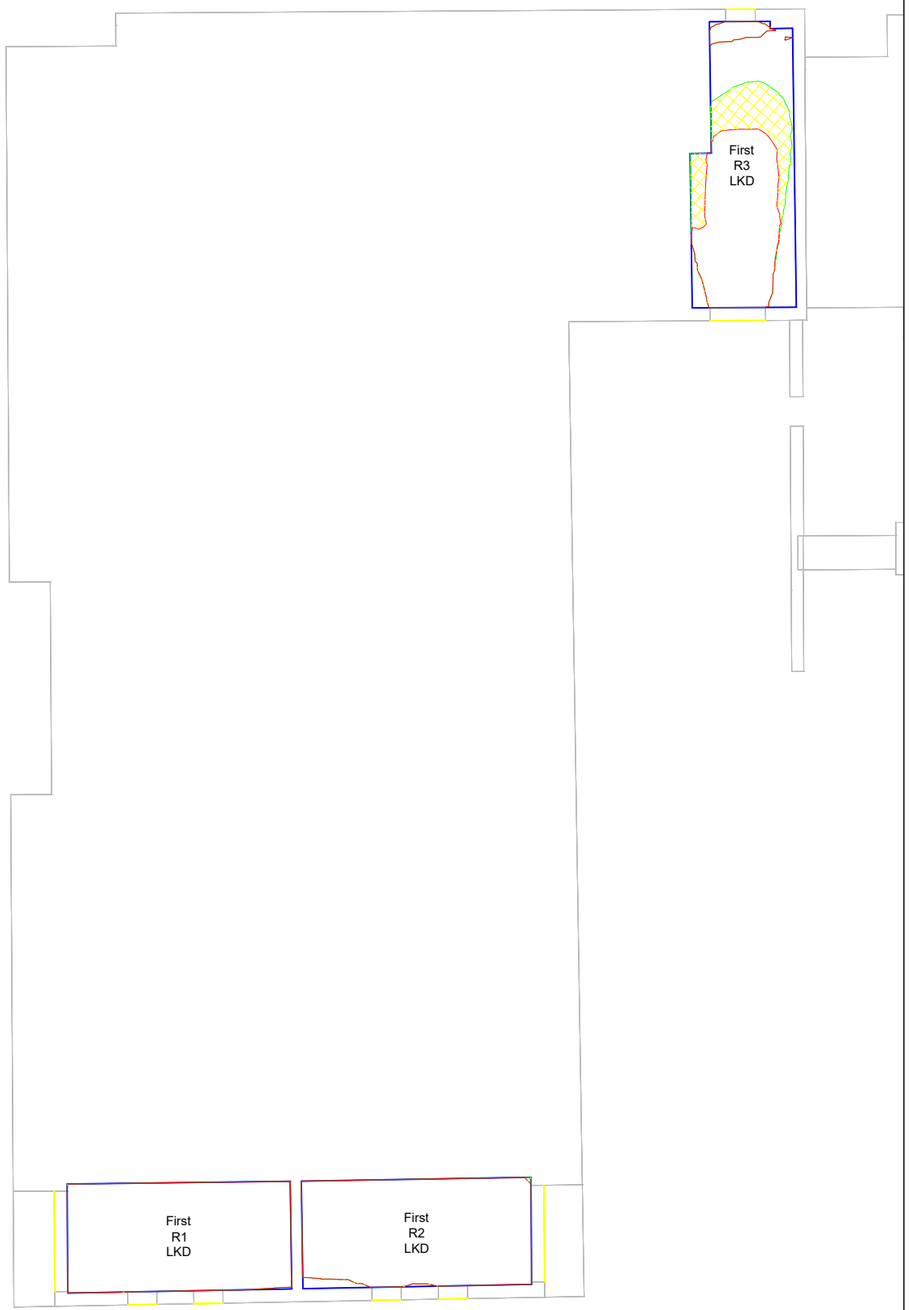
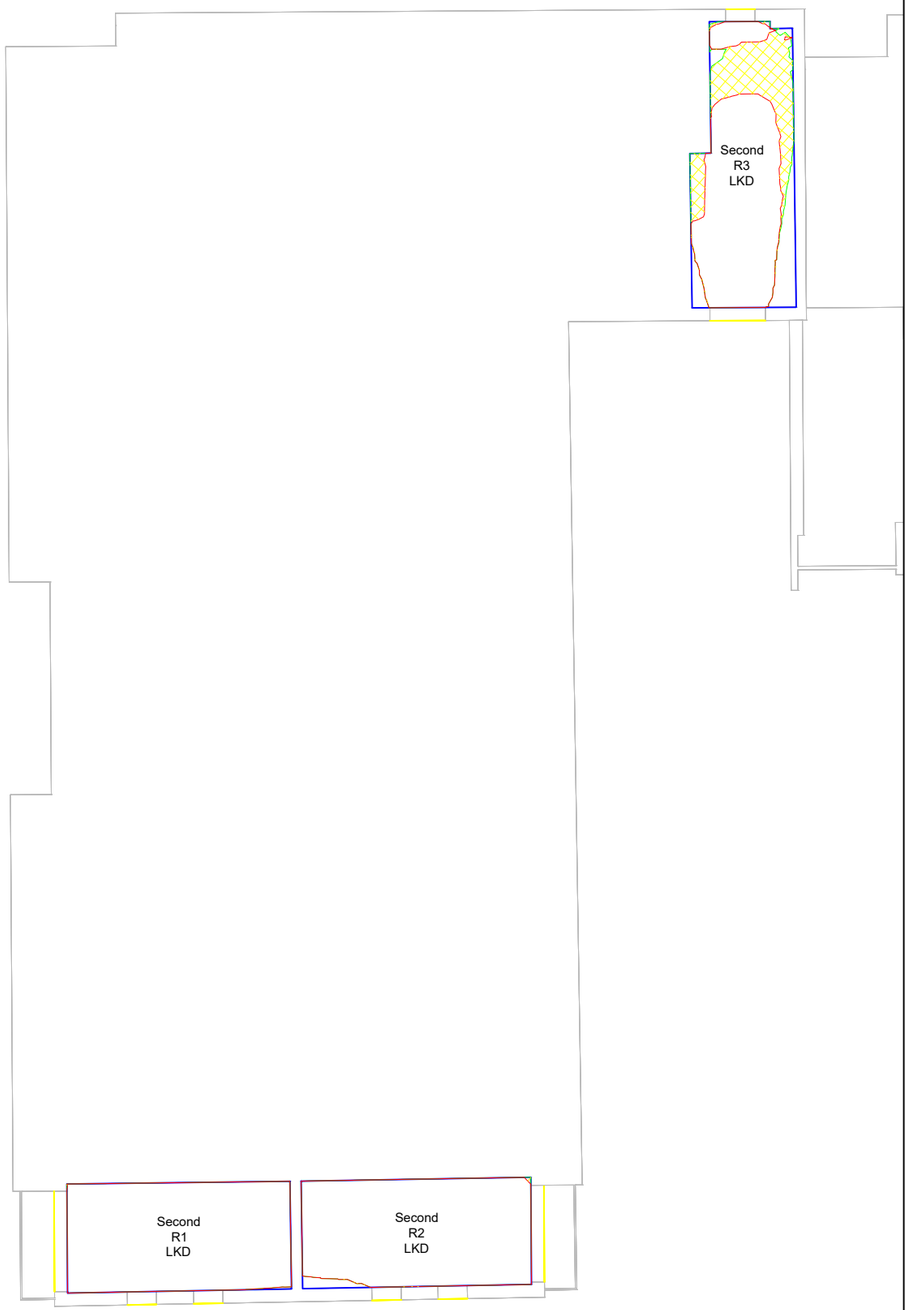
| D+S /1/ 217 | |

CONSIL




First Floor




Second Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

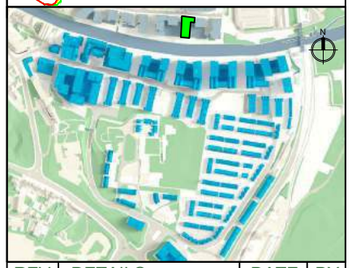
KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain

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CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Richard Hawthorn House

| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
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| DWG No. | REV. |
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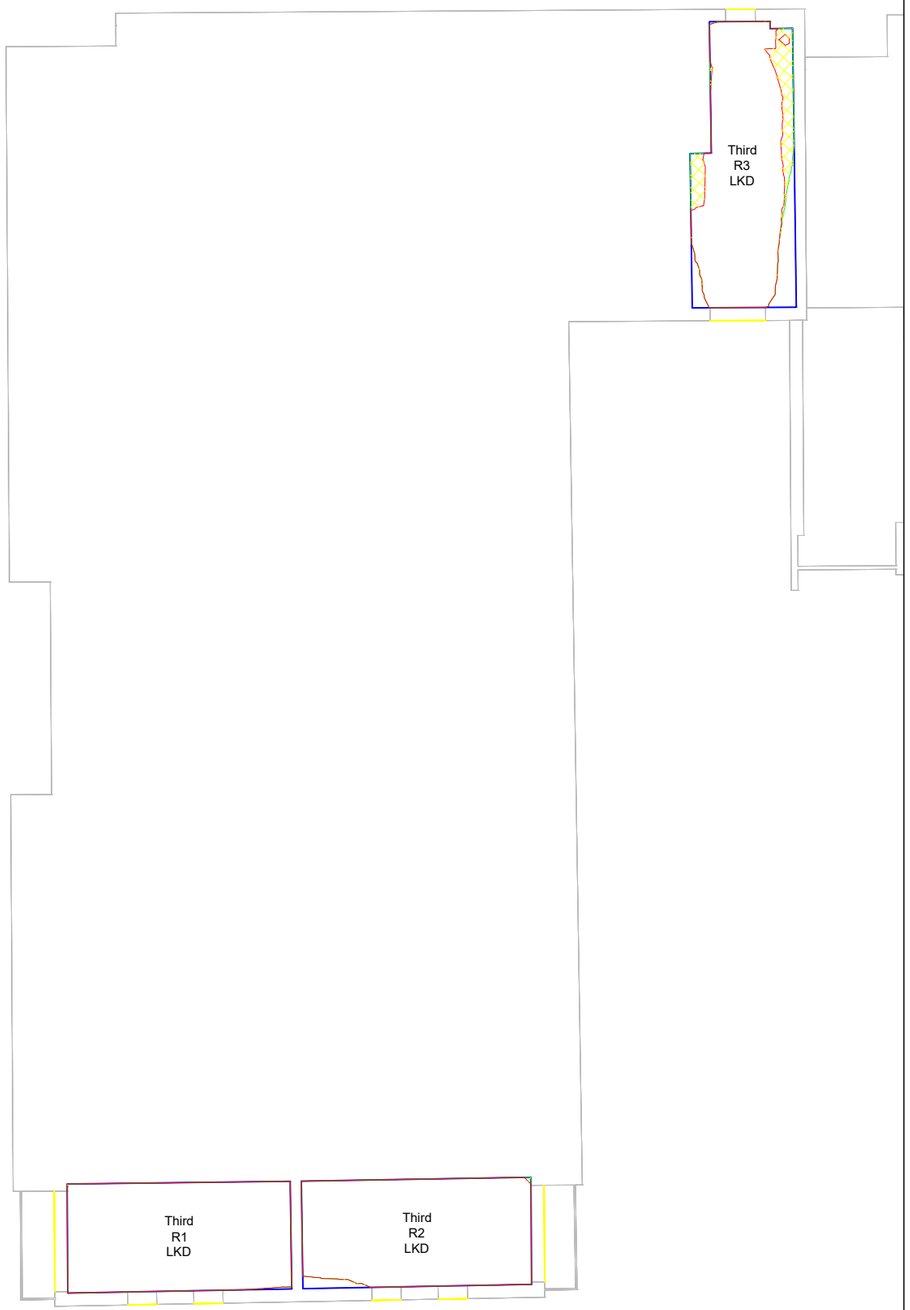
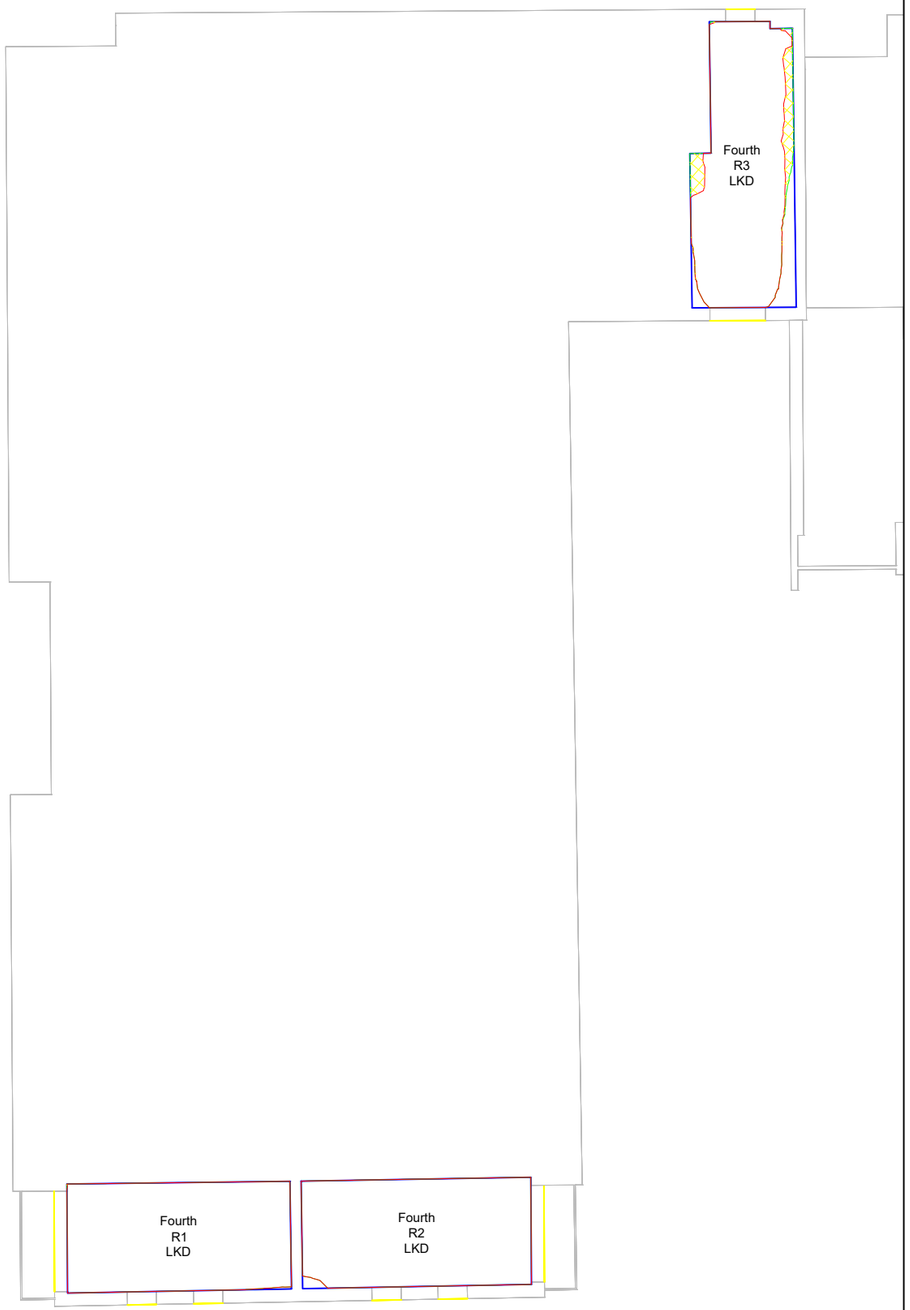
| D+S /1/ 218 | |

CONSIL




Third Floor




Fourth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

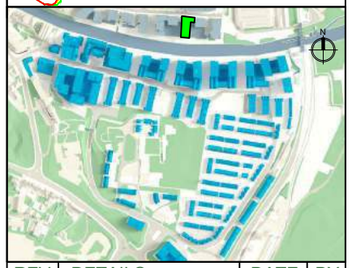
KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain

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CLIENT
Fuel Properties

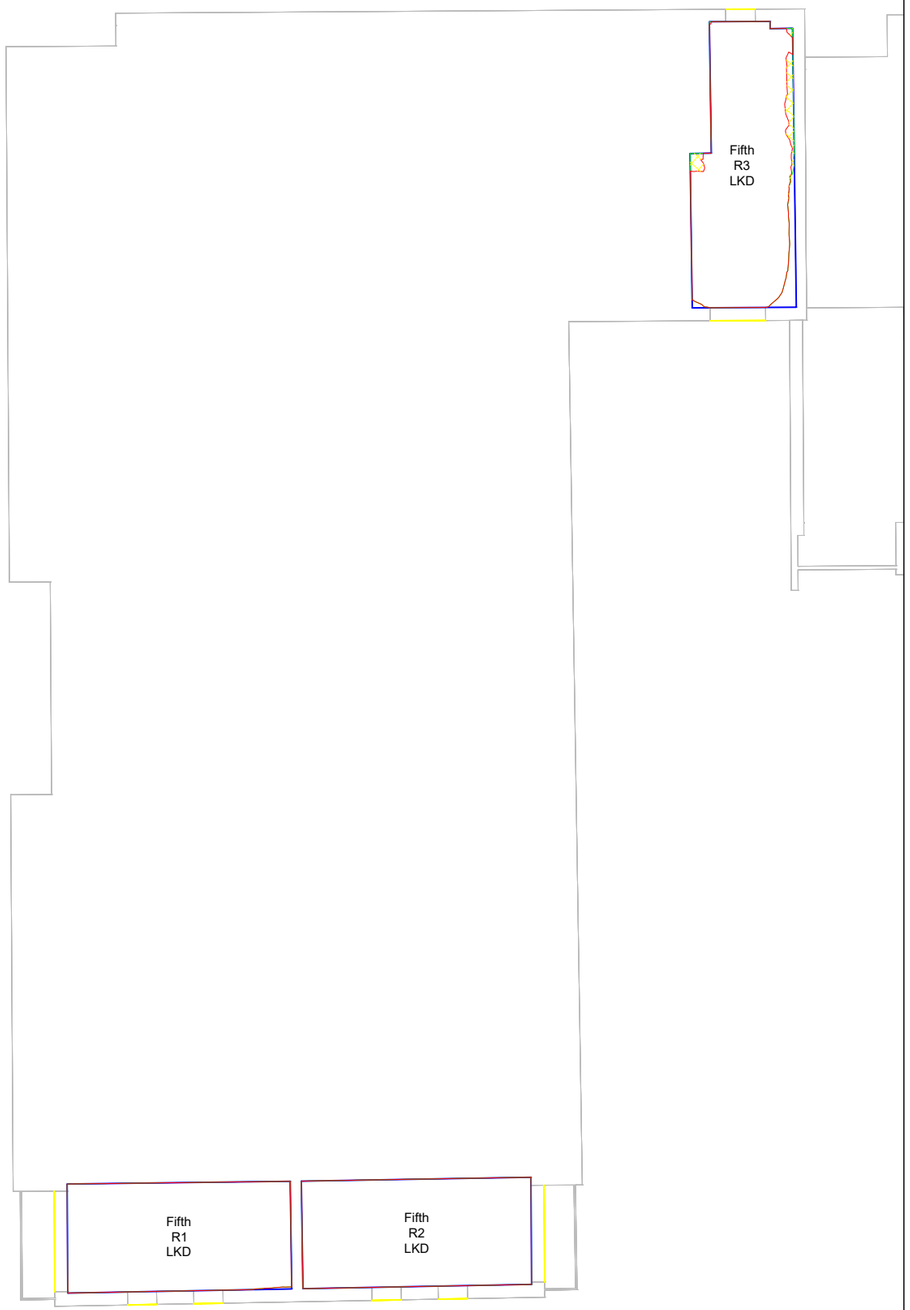
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Richard Hawthorn House

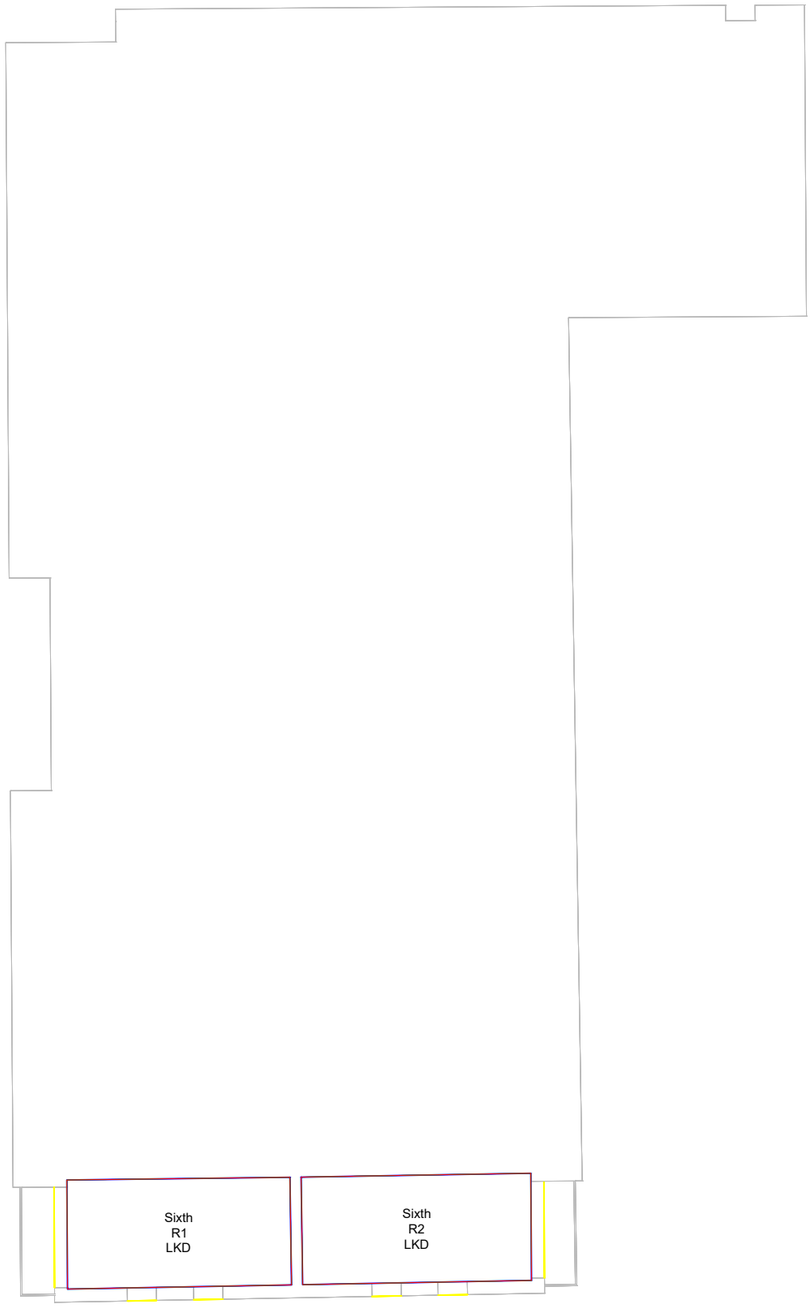
| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 219 | |

CONSIL




Fifth Floor




Sixth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain




| REV | DETAILS | DATE | BY |
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CLIENT
Fuel Properties

PROJECT
Carrow Works

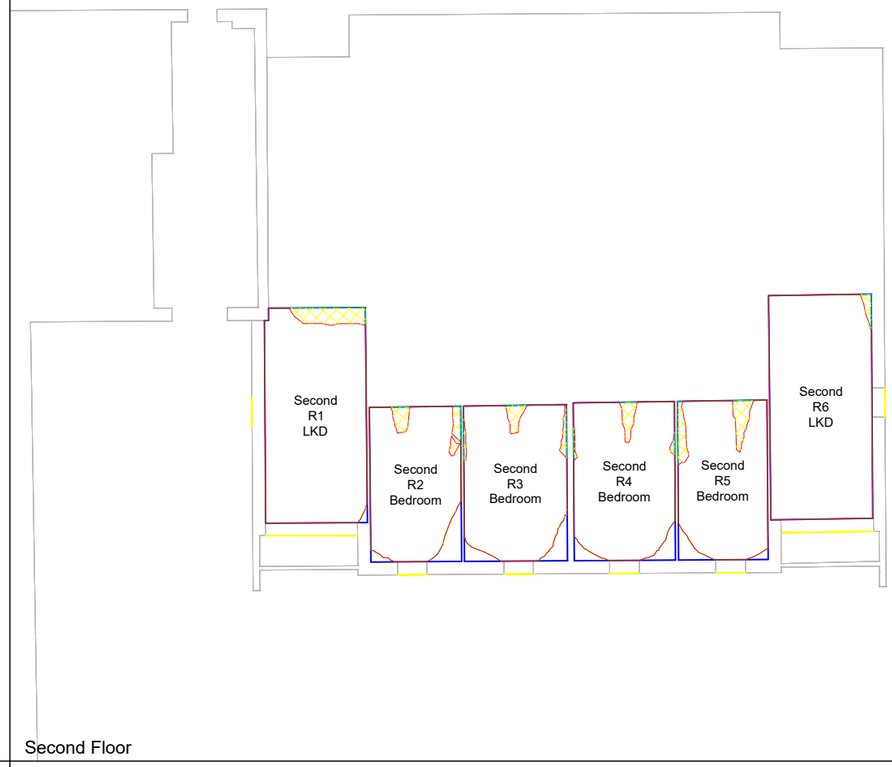
DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Richard Hawthorn House

| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

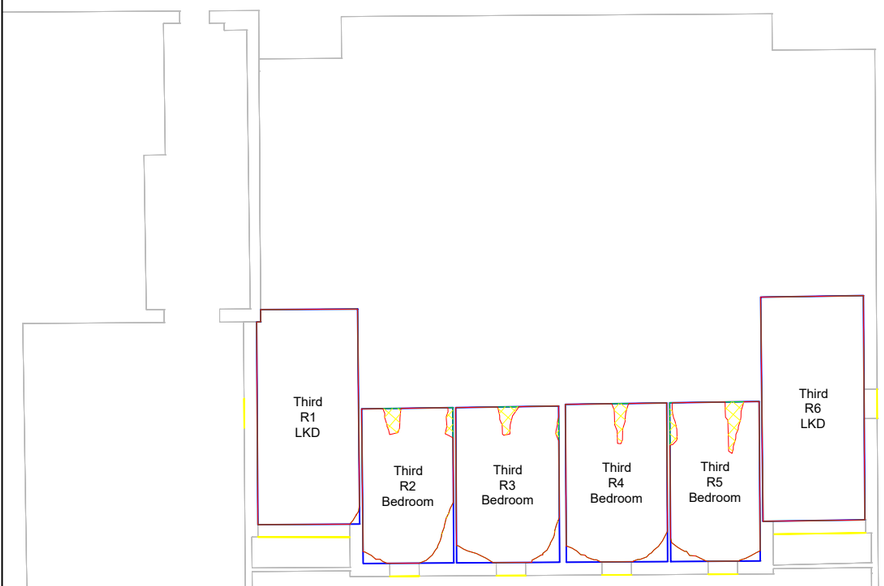
| DWG No. | REV. |
|---|---|
| D+S /1/ 220 | |

CONSIL


First Floor




Second Floor




Third Floor


Fourth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain




| REV | DETAILS | DATE | BY |
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CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Solace Geoffrey Watling Way

| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 221 | |

CONSIL


Fifth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain


| REV | DETAILS | DATE | BY |
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CLIENT
Fuel Properties

PROJECT
Carrow Works

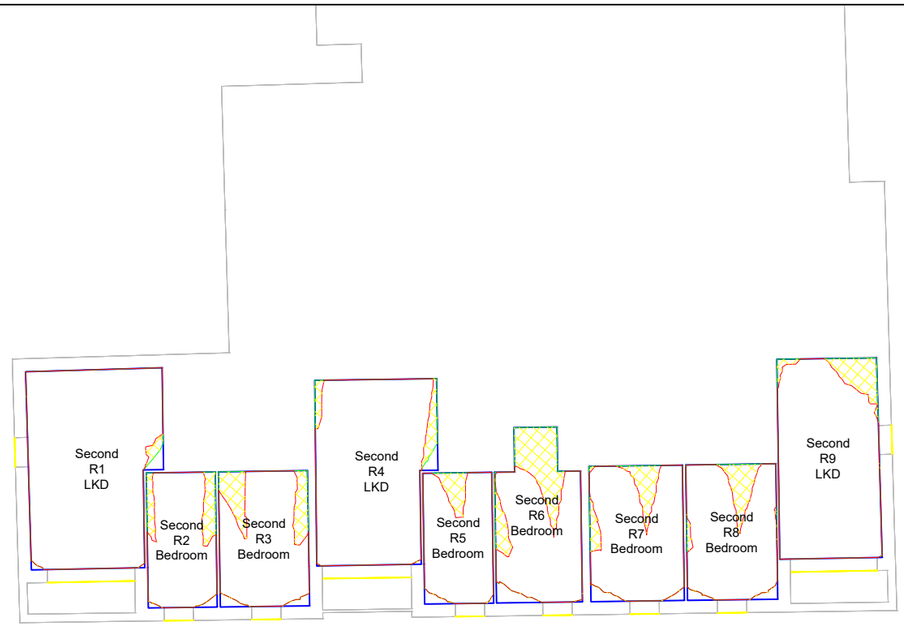
DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Solace Geoffrey Watling Way

| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 222 | |

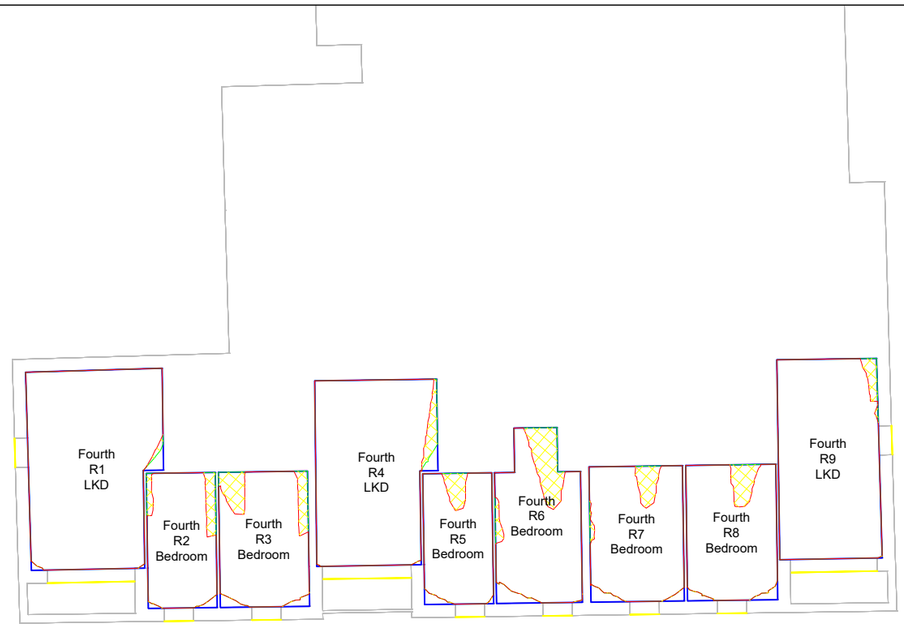
CONSIL


First Floor




Second Floor


Third Floor




Fourth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain



| REV | DETAILS | DATE | BY |
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CLIENT
Fuel Properties

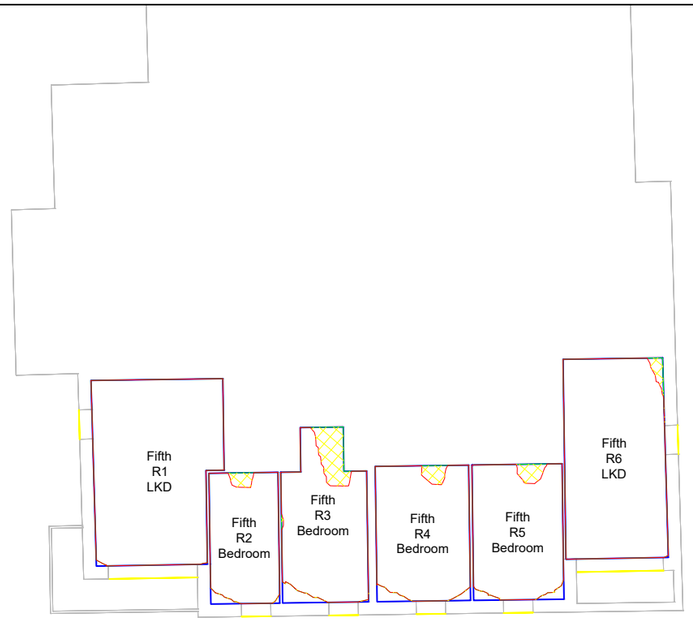
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Patricia Hollis House Watling Way

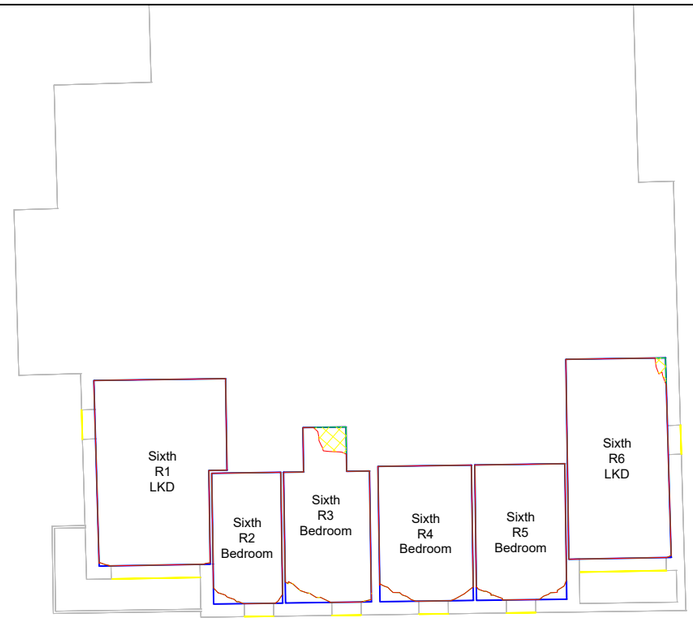
| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 223 | |

CONSIL




Fifth Floor




Sixth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain


| REV | DETAILS | DATE | BY |
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CLIENT
Fuel Properties

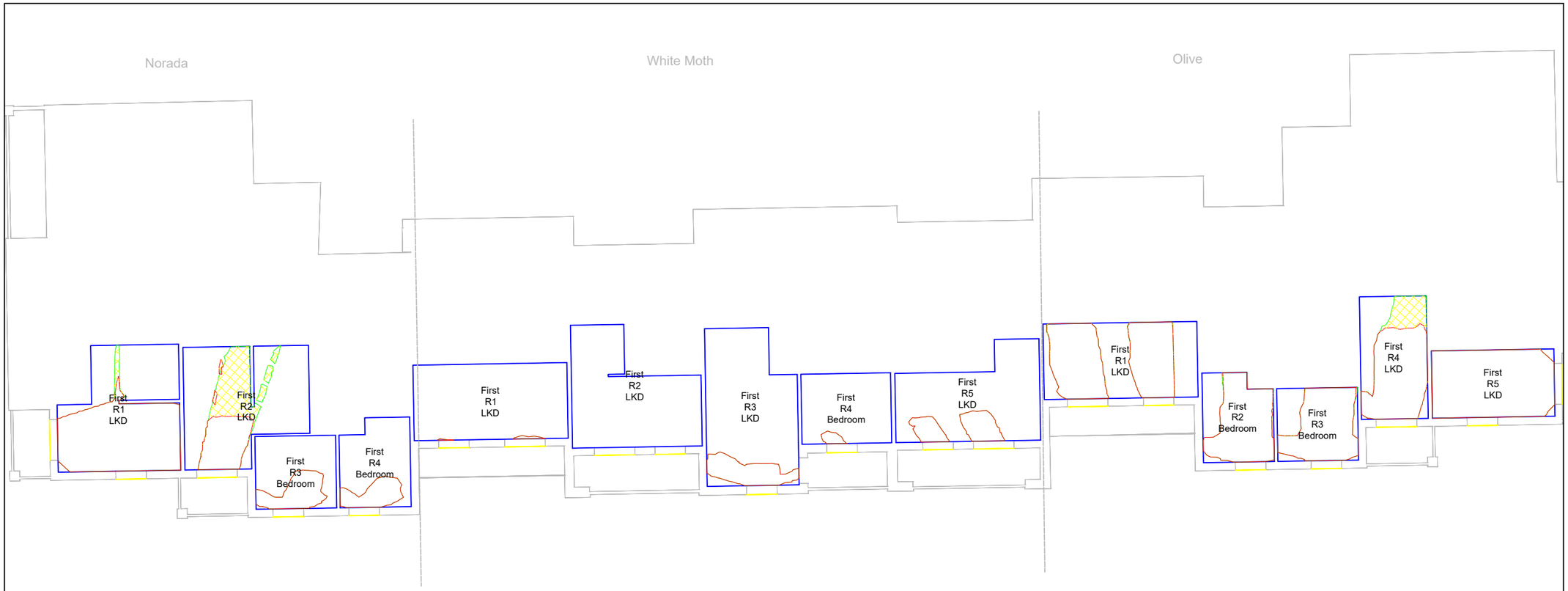
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Patricia Hollis House Watling Way

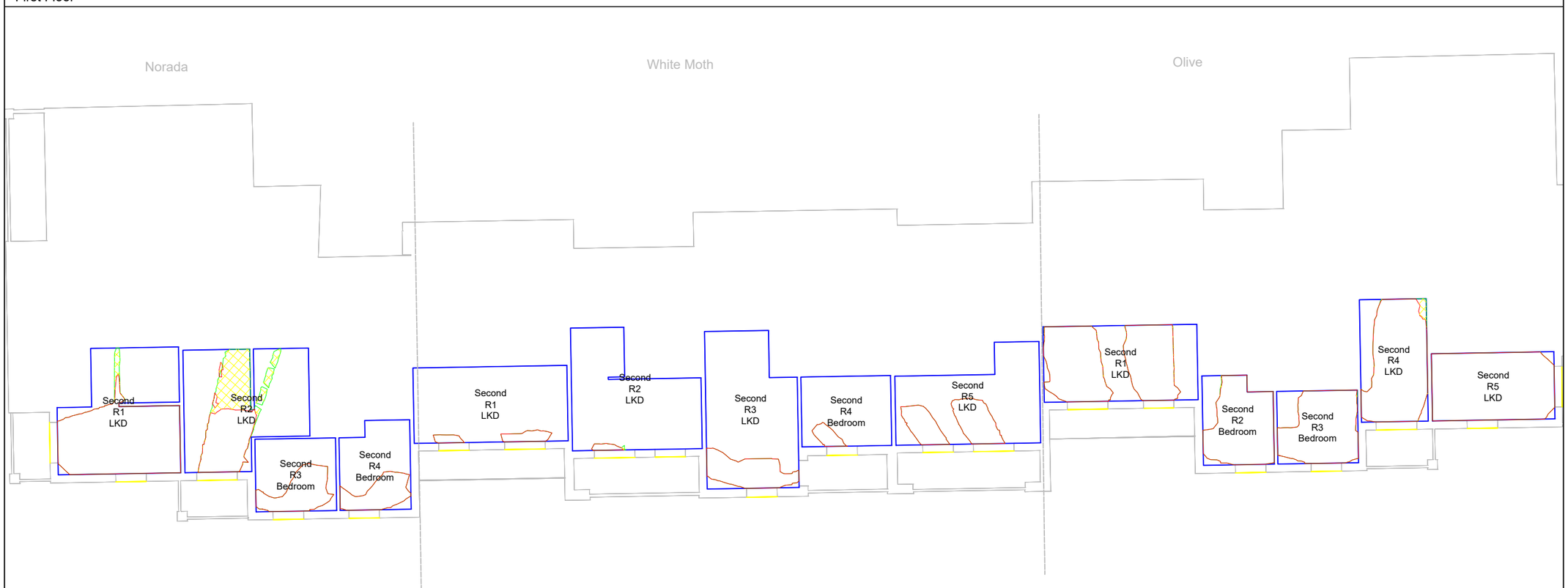
| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 224 | |

CONSIL




First Floor




Second Floor



DO NOT SCALE

SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain




| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
| | | | |
| | | | |

CLIENT
Fuel Properties

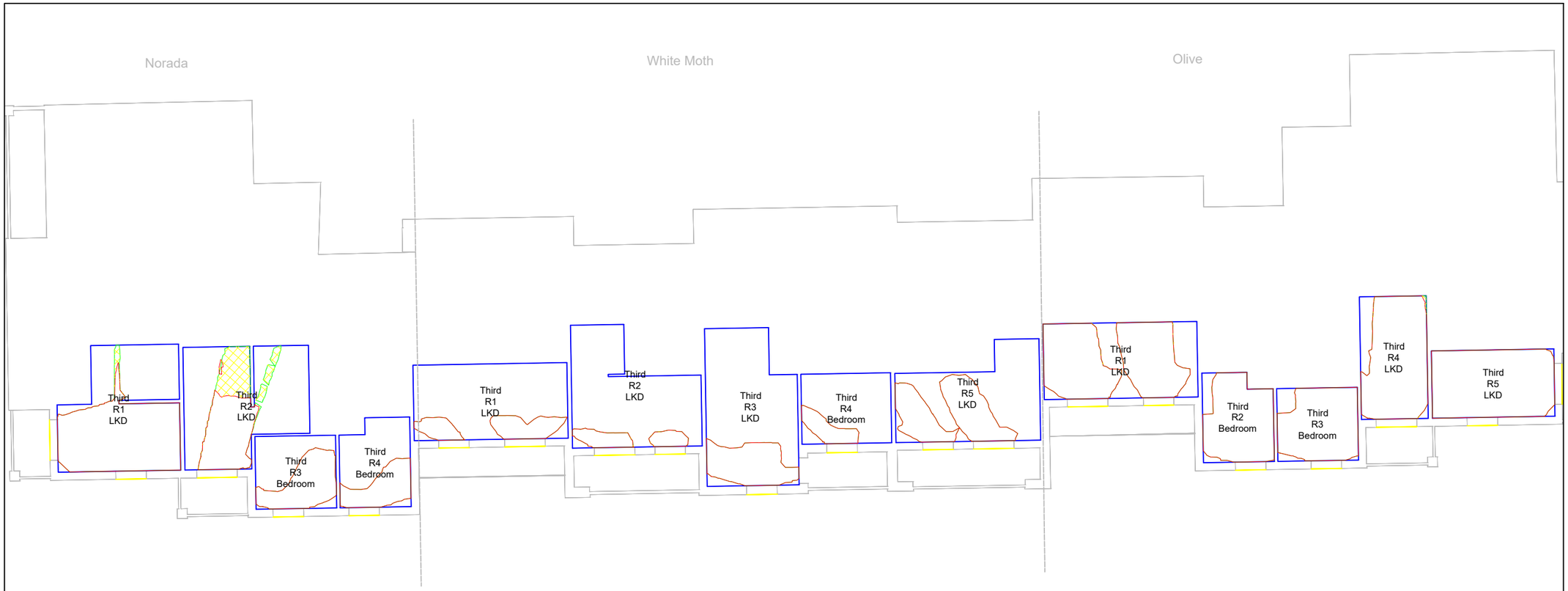
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Norada, White Moth, Olive

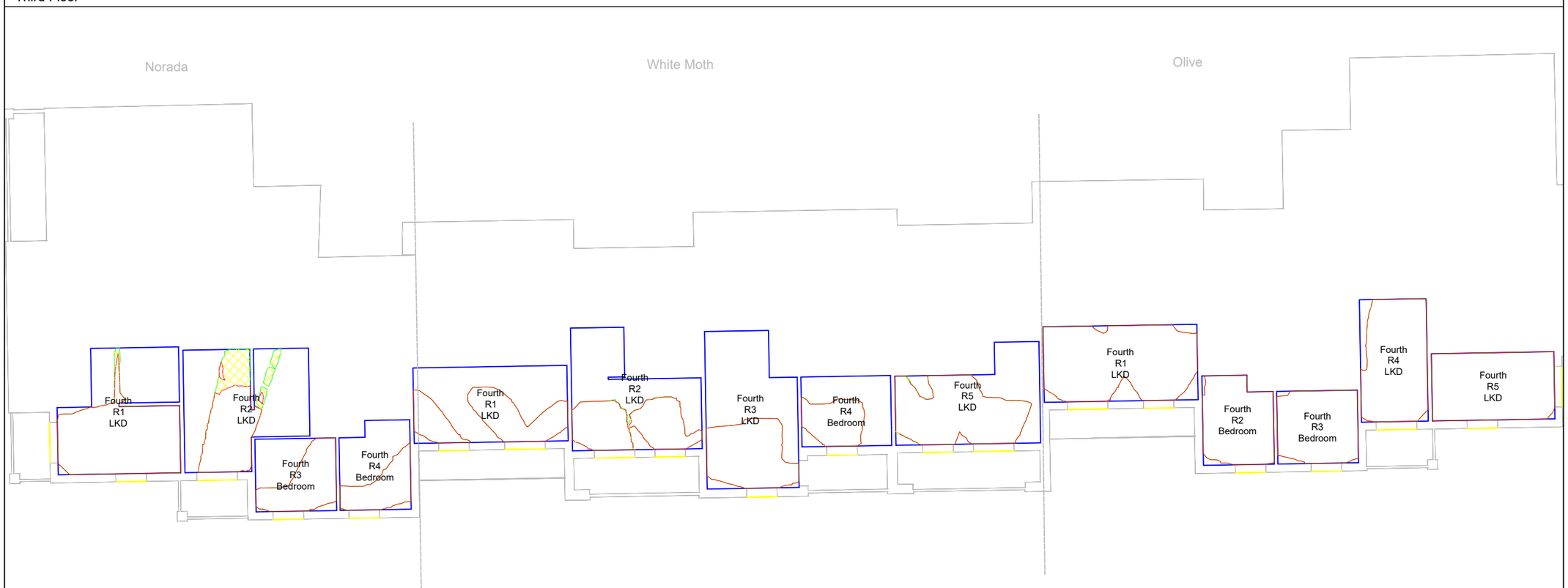
| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 225 | |

CONSIL




Third Floor




Fourth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

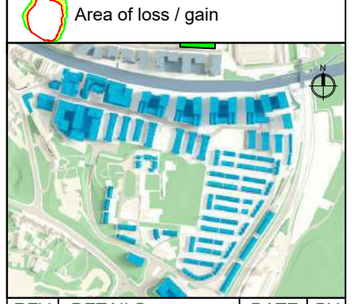
KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain



| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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CLIENT
Fuel Properties

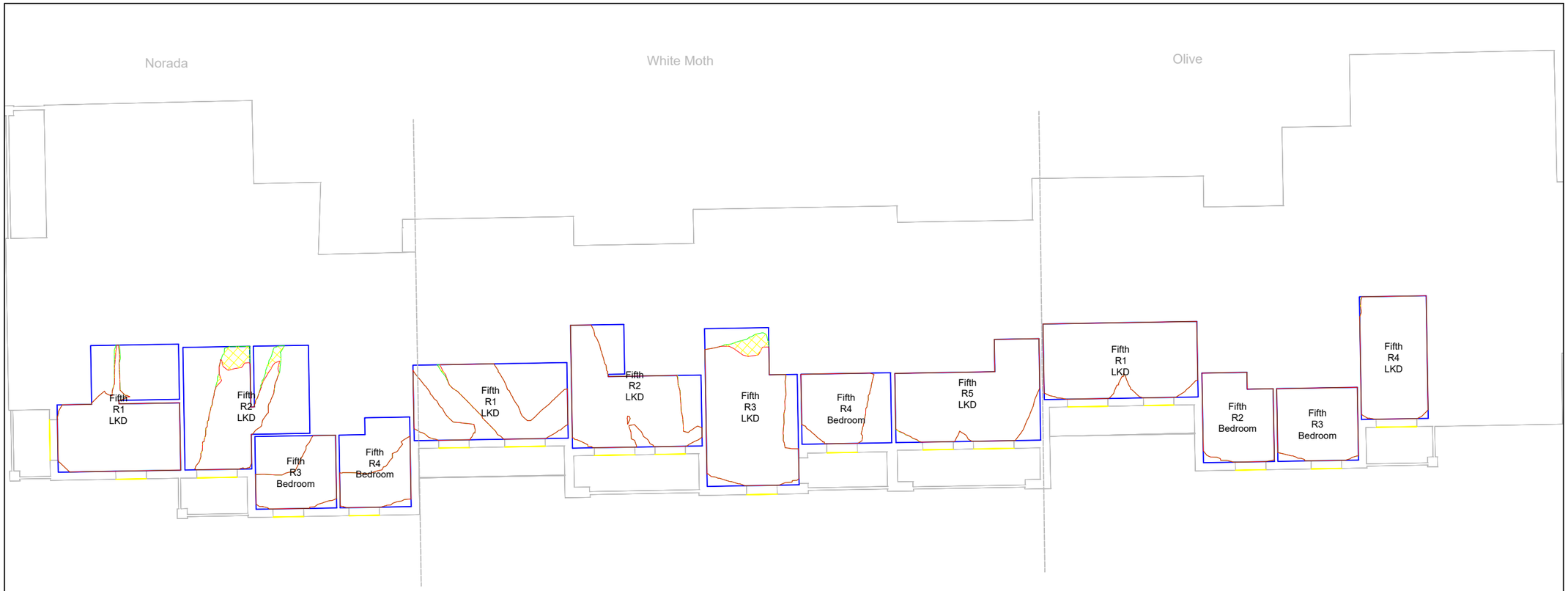
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Norada, White Moth, Olive

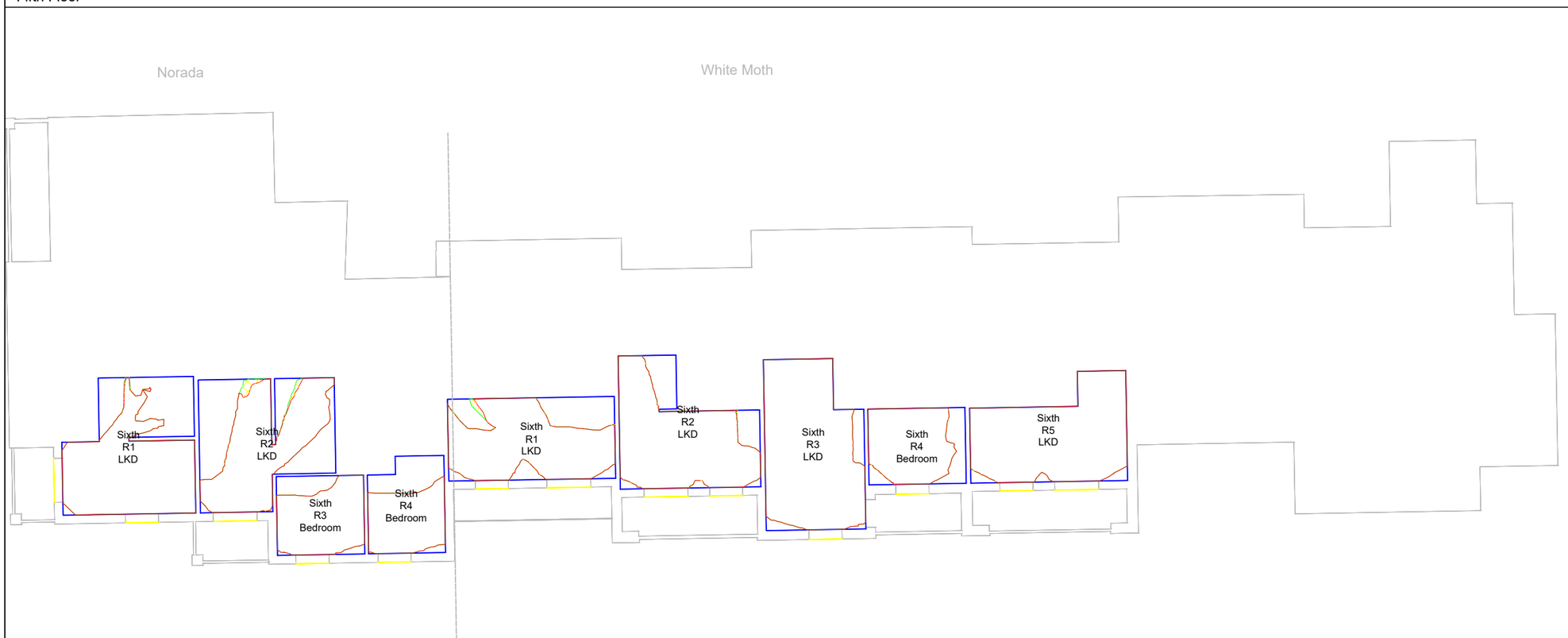
| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 226 | |

CONSIL




Fifth Floor




Sixth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain




| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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CLIENT
Fuel Properties

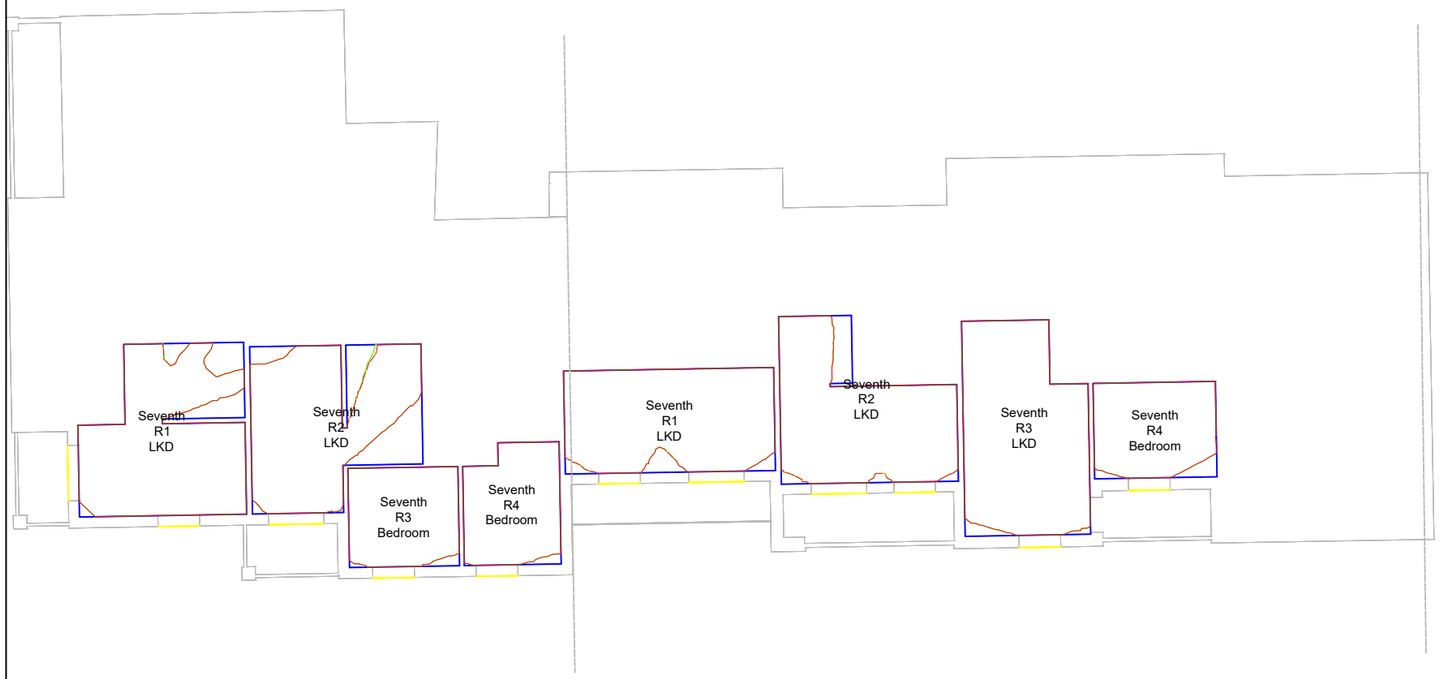
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Norada, White Moth, Olive

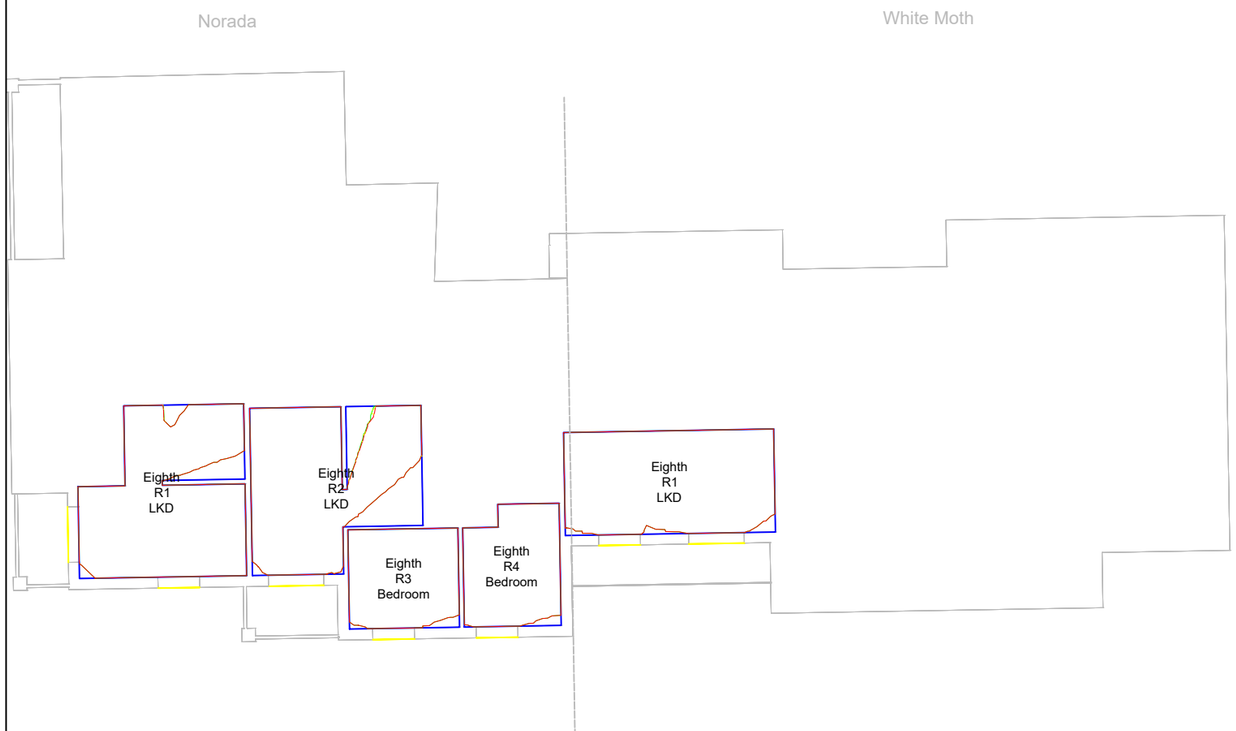
| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 227 | |

CONSIL




Seventh Floor




Eighth Floor



DO NOT SCALE

SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain




| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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CLIENT
Fuel Properties

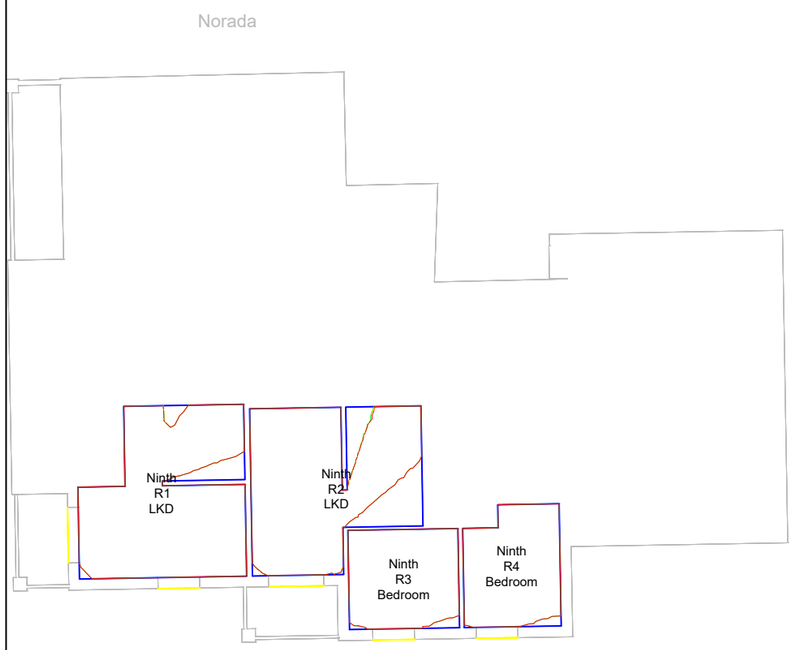
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Norada, White Moth, Olive

| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 228 | |

CONSIL




Ninth Floor



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY

R1 Room area

Existing no-skyline

Proposed no-skyline

Area of loss / gain




| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
| | | | |
| | | | |

CLIENT
Fuel Properties

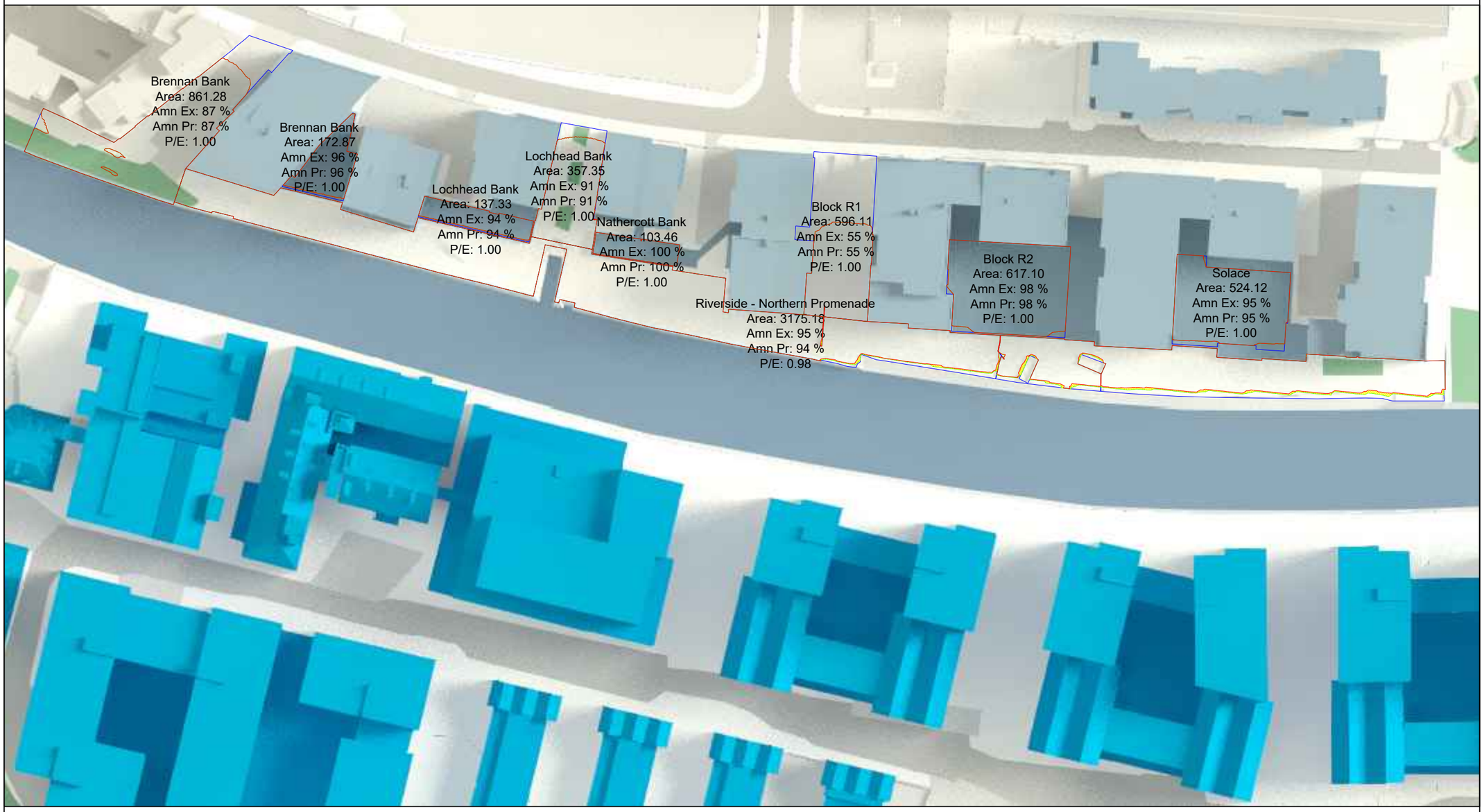
PROJECT
Carrow Works

DRAWING TITLE
Daylight Distribution contours
Illustrative Massing
Norada, White Moth, Olive

| SCALE | DATE |
|---|---|
| 1:200 | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 229 | |

CONSIL




March 21st



DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY

- Amenity area
- Existing area of direct sunlight
- Proposed area of direct sunlight
- Area of loss / gain

| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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| | | | |

CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Permanent Overshadowing
Illustrative Massing

| SCALE | DATE |
|---|---|
| [Not to Scale] | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

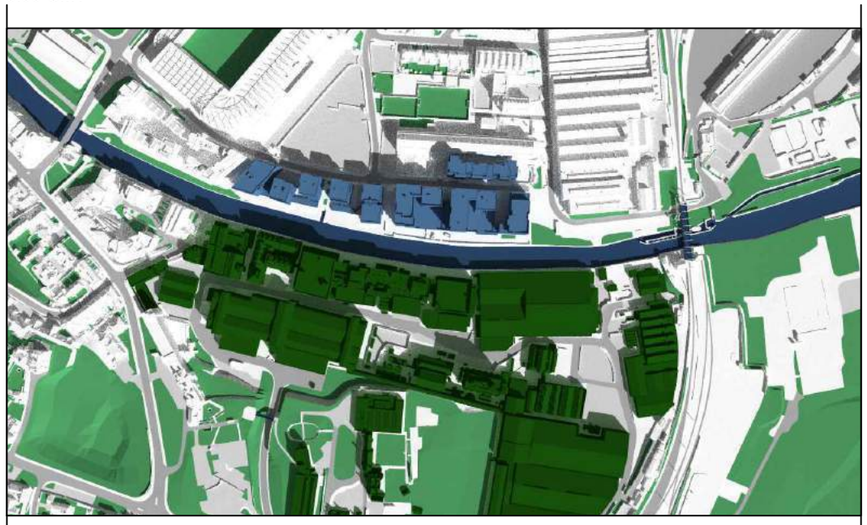
| DWG No. | REV. |
|---|---|
| D+S /1/ 401 | |

CONSIL

Existing scenario - March 21st

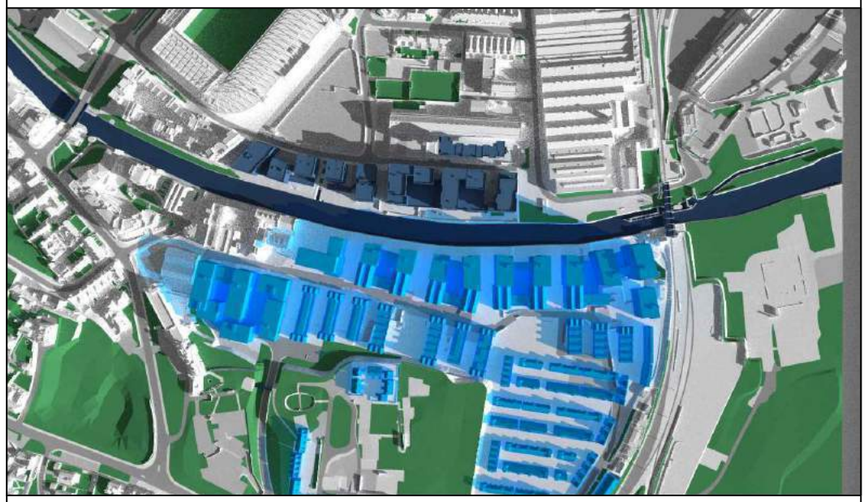
8:00 GMT

9:00 GMT

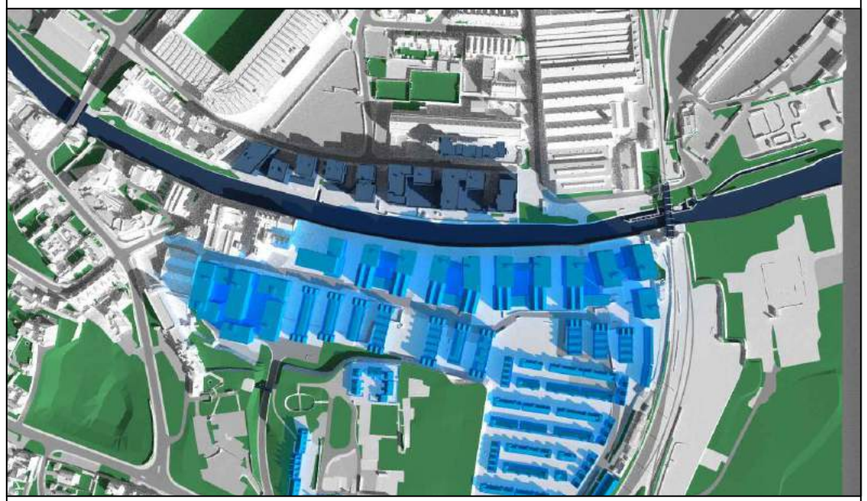


10:00 GMT

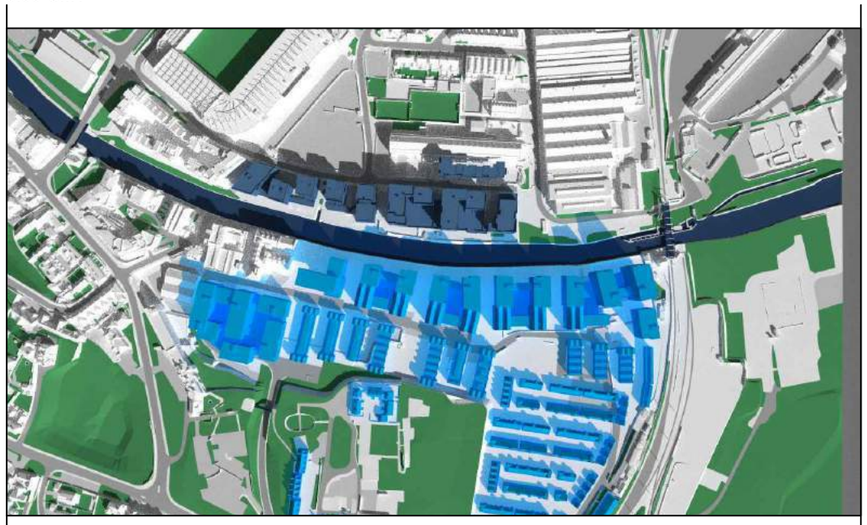
Proposed scenario - March 21st



8:00 GMT



9:00 GMT



10:00 GMT



DO NOT SCALE

SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY
- Existing buildings
- Proposed buildings
- Analysed properties
- Surrounding buildings

| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Transient Overshadowing
Illustrative Massing

| SCALE | DATE |
|---|---|
| Not to Scale | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

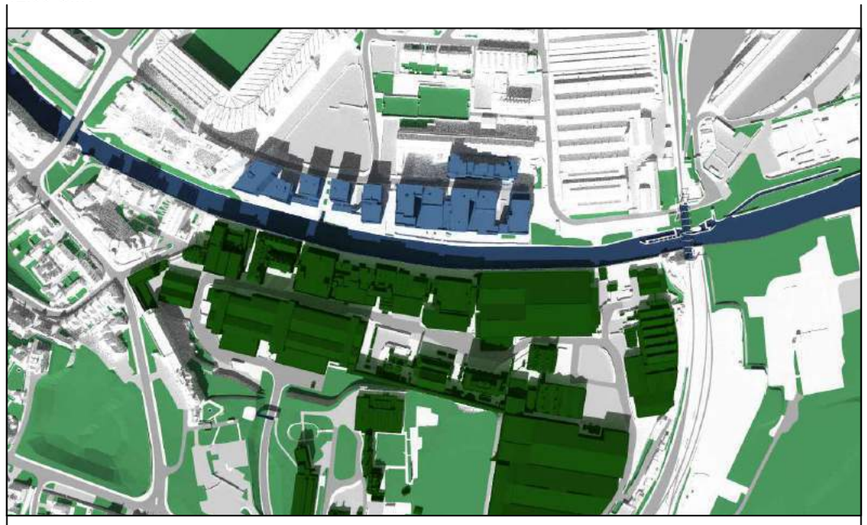
| DWG No. | REV. |
|---|---|
| D+S /1/ 451 | |

CONSIL

Existing scenario - March 21st

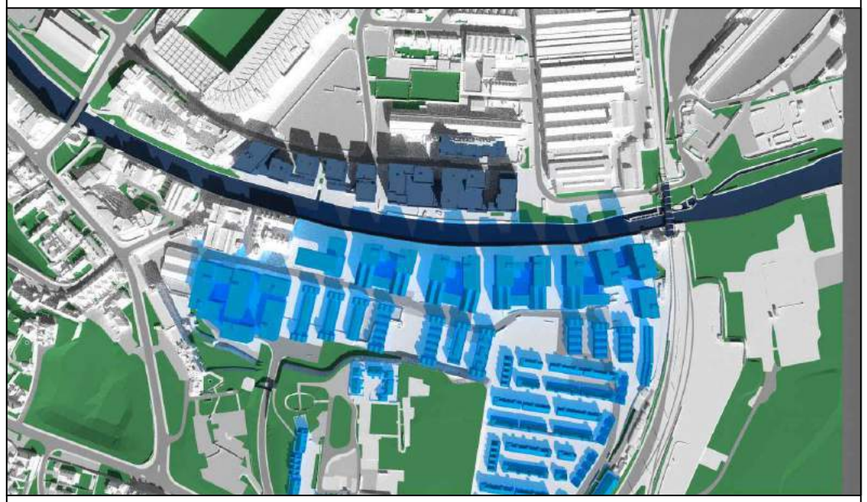
11:00 GMT

12:00 GMT

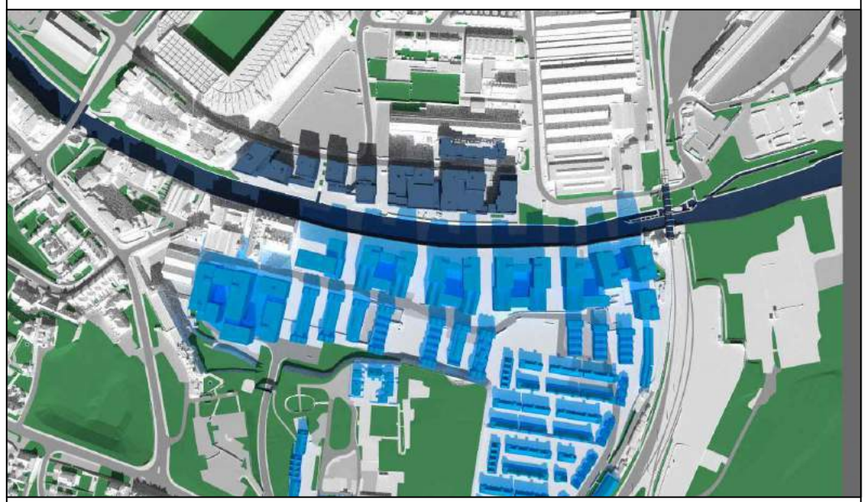


13:00 GMT

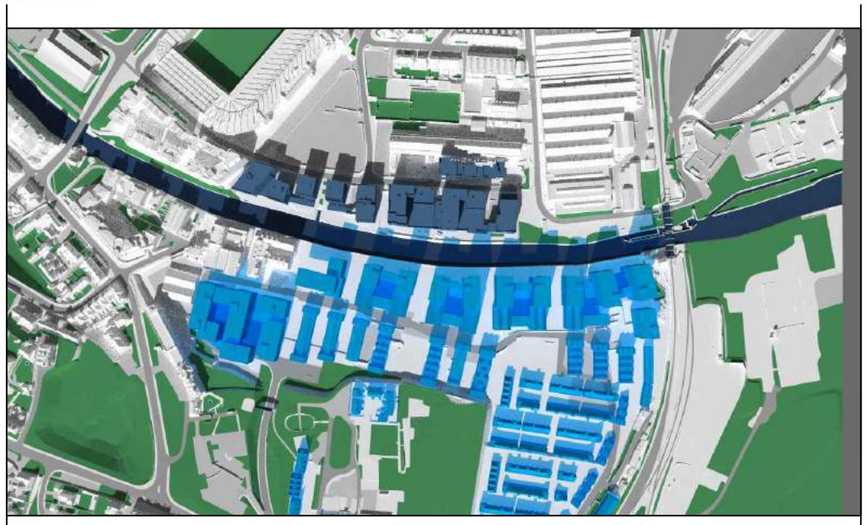
Proposed scenario - March 21st



11:00 GMT



12:00 GMT



13:00 GMT



DO NOT SCALE

SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY
- Existing buildings
- Proposed buildings
- Analysed properties
- Surrounding buildings

| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Transient Overshadowing
Illustrative Massing

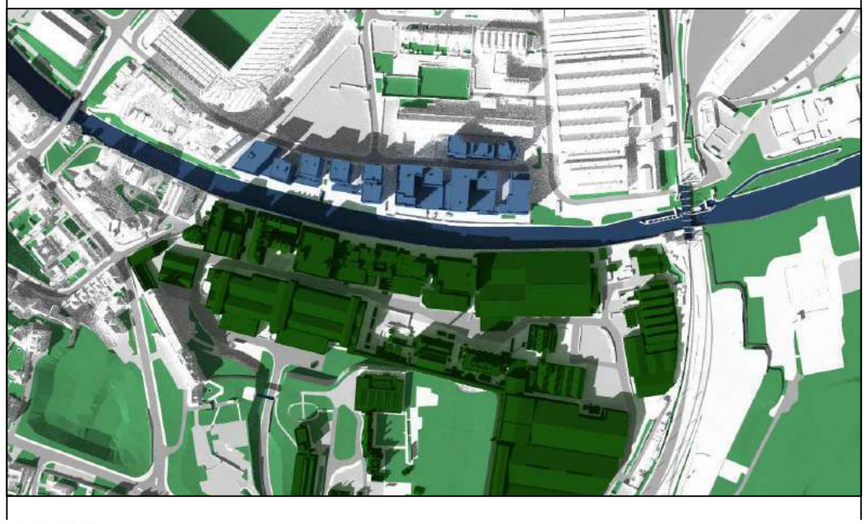
| SCALE | DATE |
|---|---|
| Not to Scale | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 452 | |

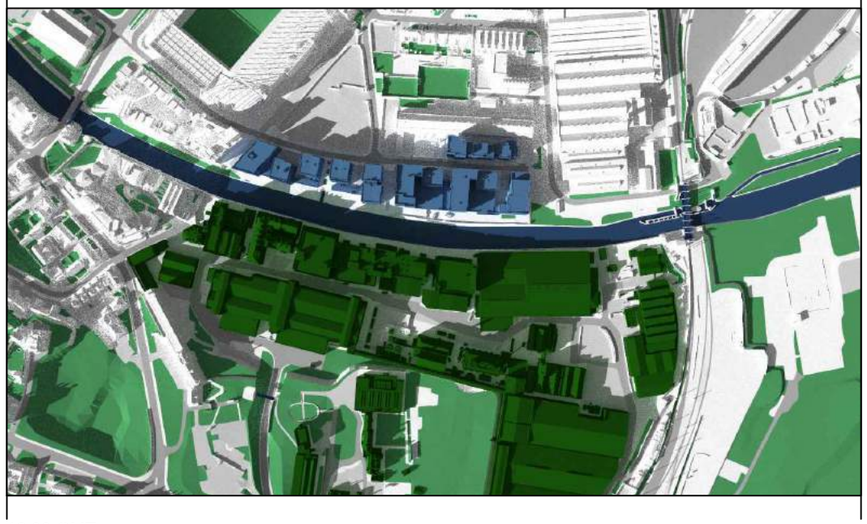
CONSIL

Existing scenario - March 21st

14:00 GMT

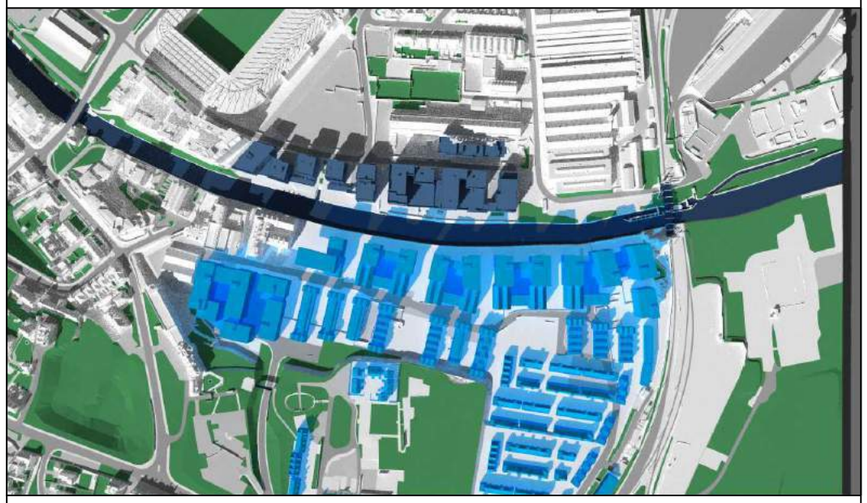


15:00 GMT

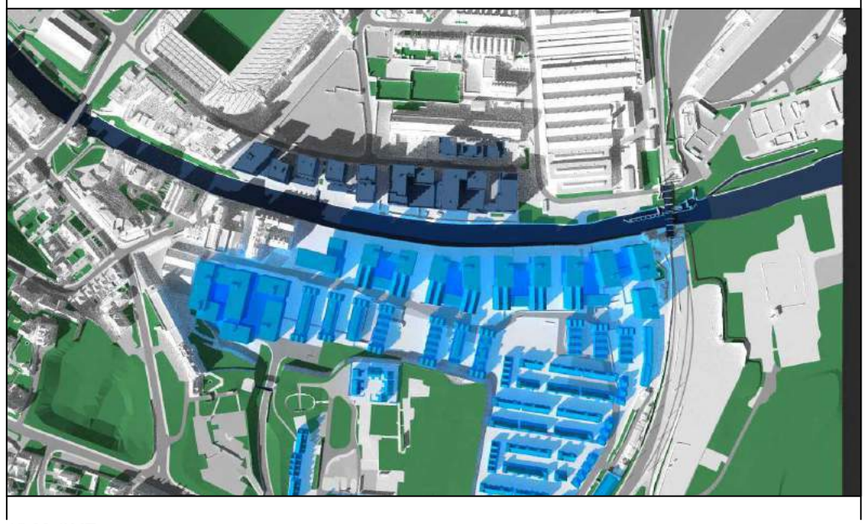


16:00 GMT

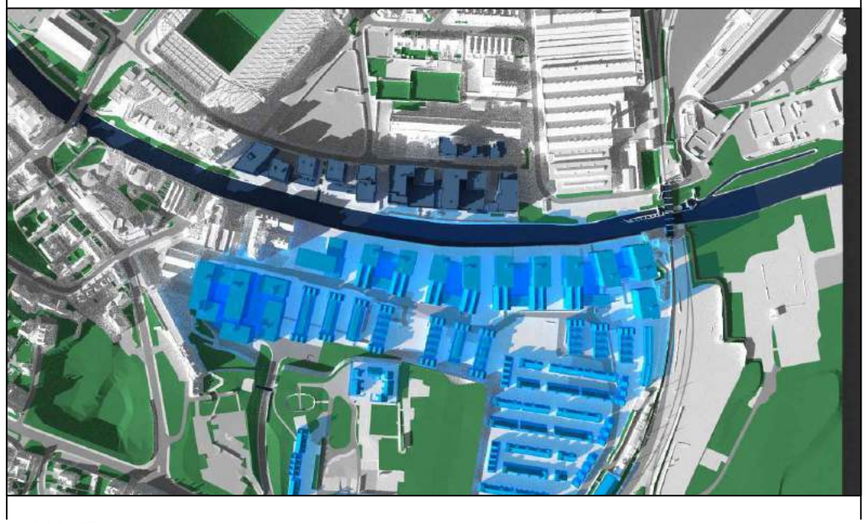
Proposed scenario - March 21st



14:00 GMT



15:00 GMT



16:00 GMT



DO NOT SCALE

SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY
- Existing buildings
- Proposed buildings
- Analysed properties
- Surrounding buildings

| REV | DETAILS | DATE | BY |
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CLIENT
Fuel Properties

PROJECT
Carrow Works

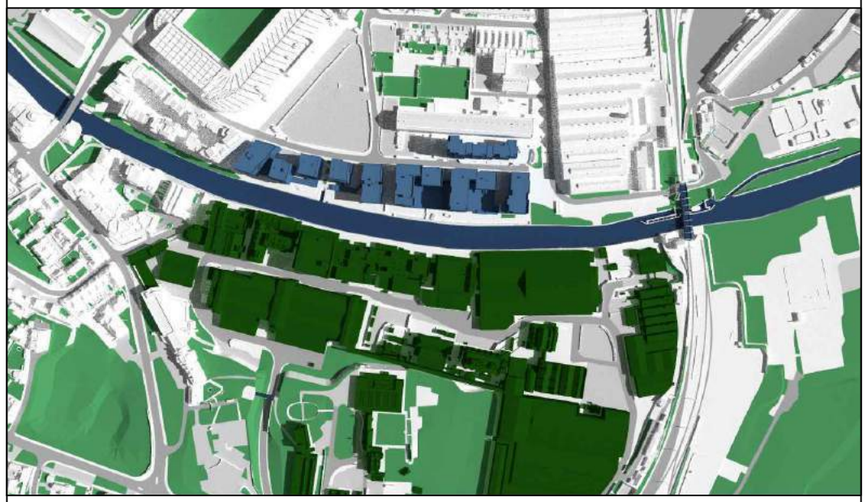
DRAWING TITLE
Transient Overshadowing
Illustrative Massing

| SCALE | DATE |
|---|---|
| Not to Scale | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

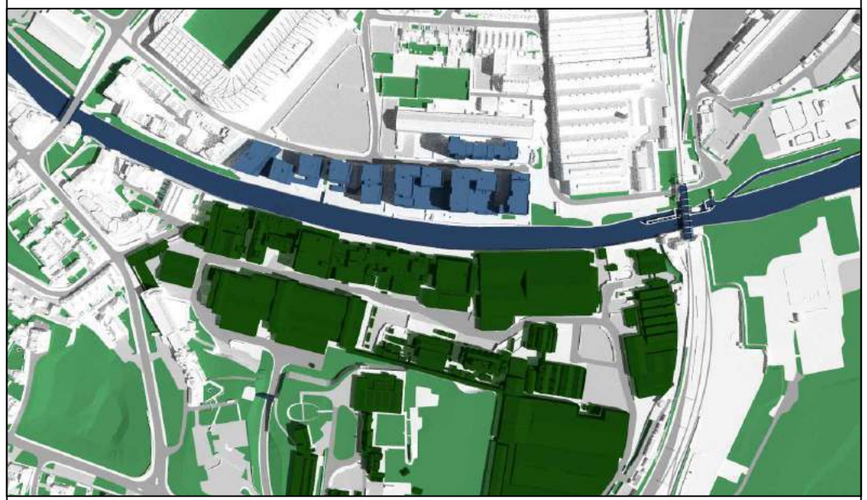
| DWG No. | REV. |
|---|---|
| D+S /1/ 453 | |

CONSIL

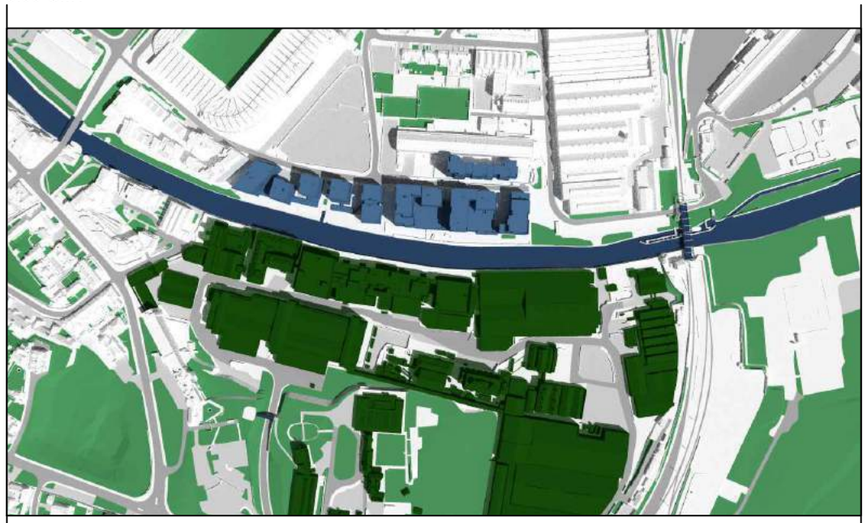
Existing scenario - June 21st



8:00 GMT

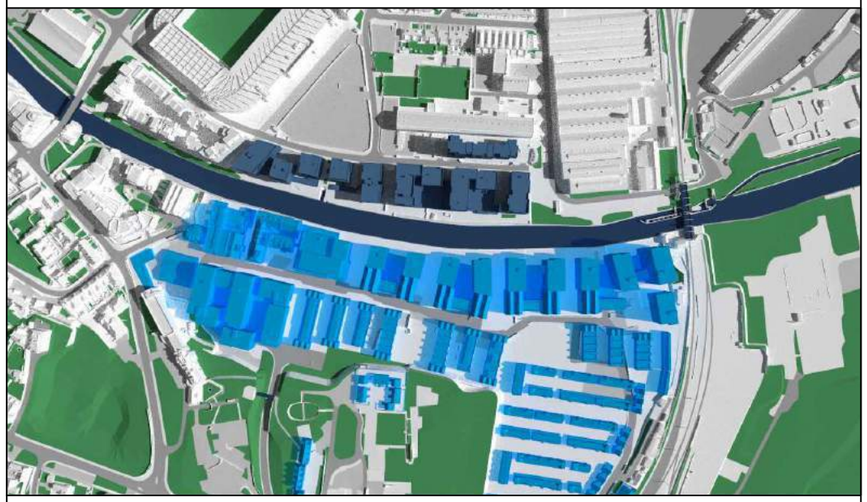


9:00 GMT

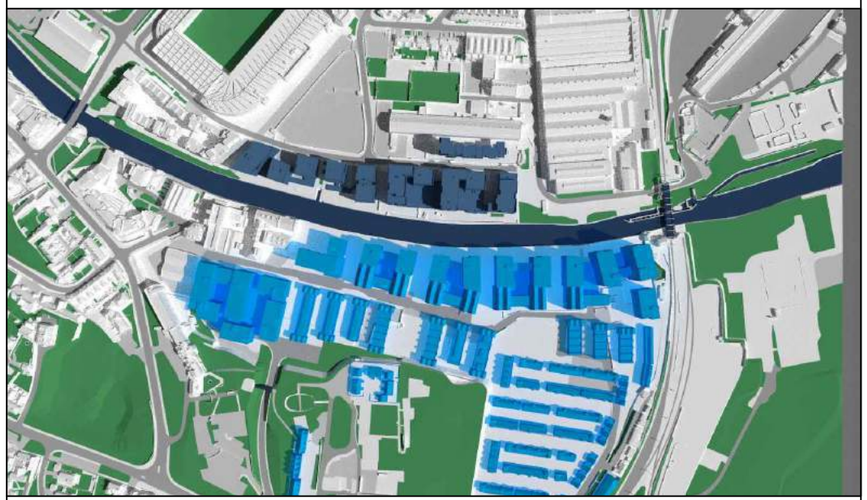


10:00 GMT

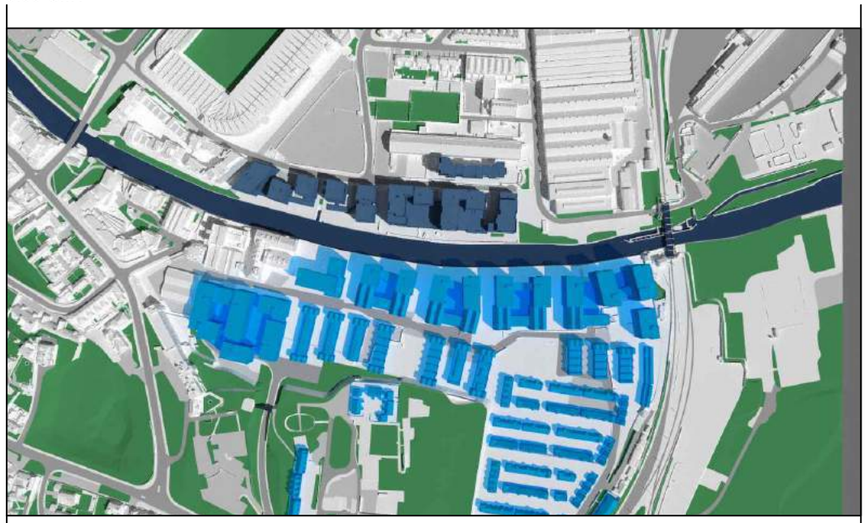
Proposed scenario - June 21st



8:00 GMT



9:00 GMT



10:00 GMT



DO NOT SCALE

SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY
- Existing buildings
- Proposed buildings
- Analysed properties
- Surrounding buildings

| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Transient Overshadowing
Illustrative Massing

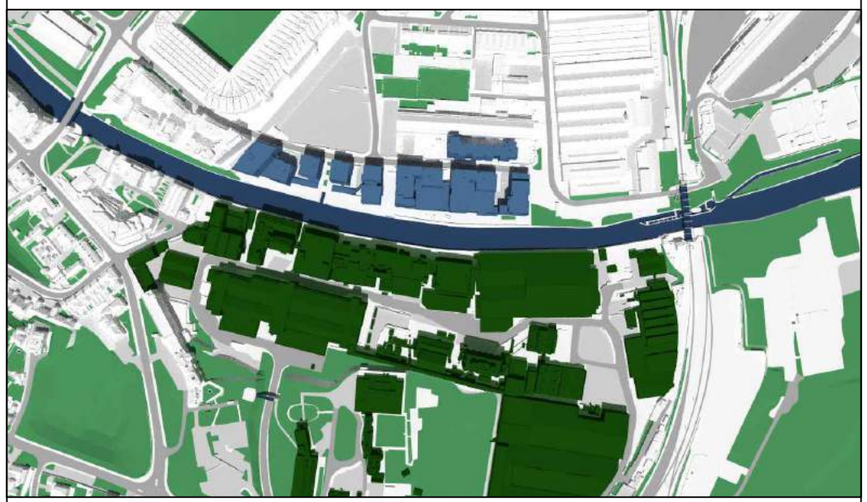
| SCALE | DATE |
|---|---|
| Not to Scale | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 454 | |

CONSIL

Existing scenario - June 21st

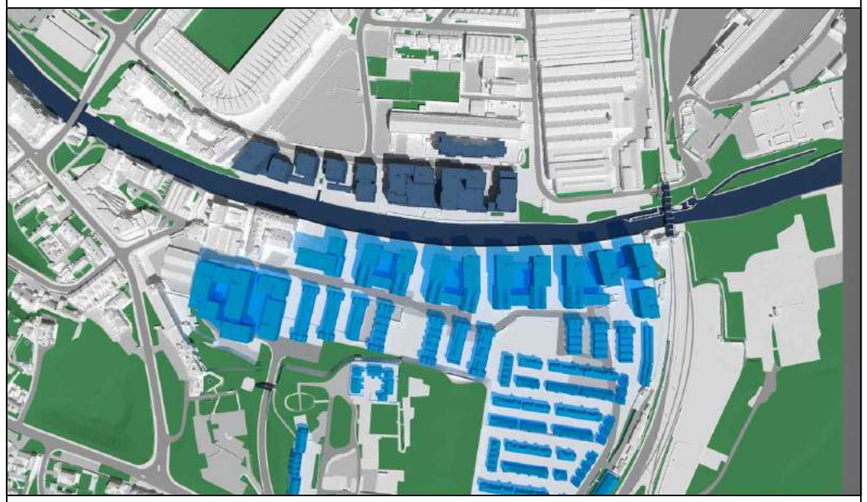
11:00 GMT



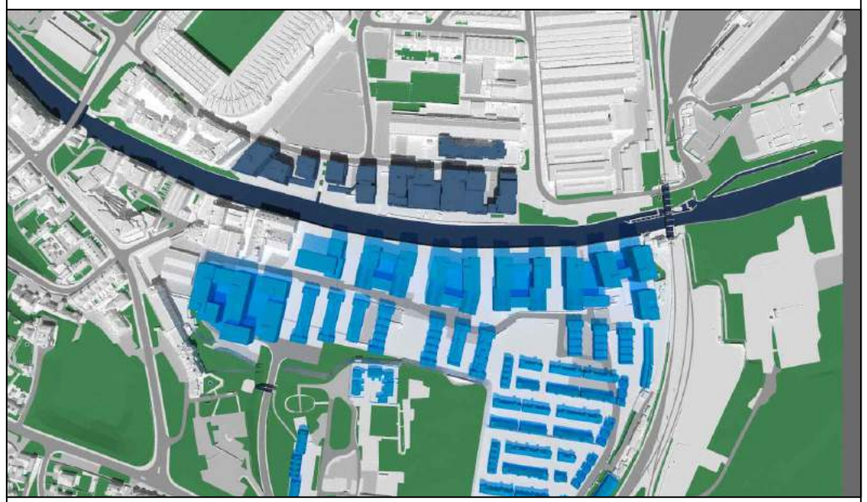
12:00 GMT

13:00 GMT

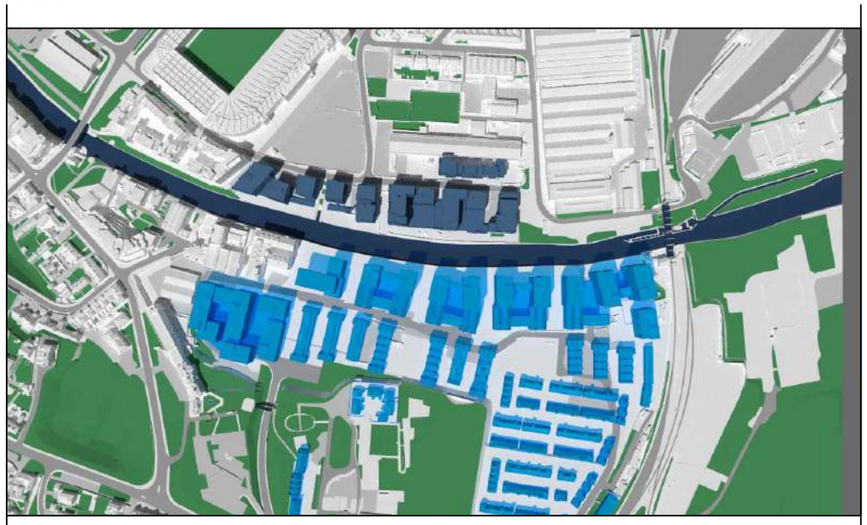
Proposed scenario - June 21st



11:00 GMT



12:00 GMT



13:00 GMT



DO NOT SCALE

SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY
- Existing buildings
- Proposed buildings
- Analysed properties
- Surrounding buildings

| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Transient Overshadowing
Illustrative Massing

| SCALE | DATE |
|---|---|
| Not to Scale | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 455 | |

CONSIL

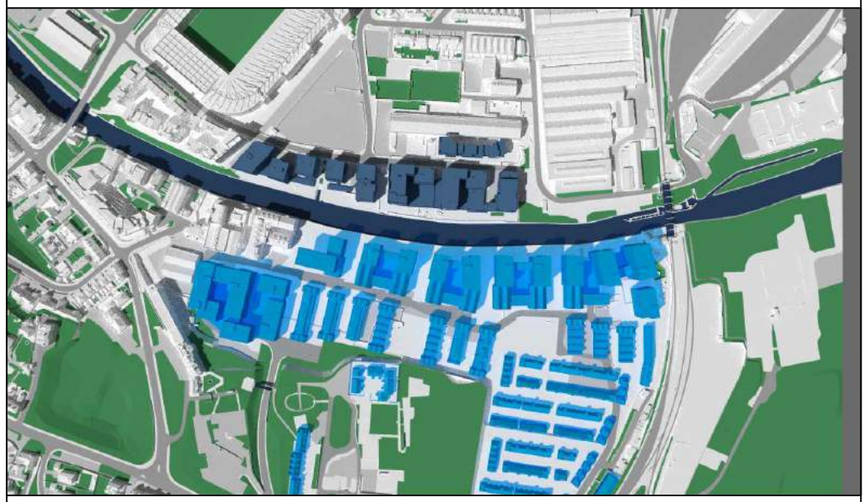
Existing scenario - June 21st

14:00 GMT

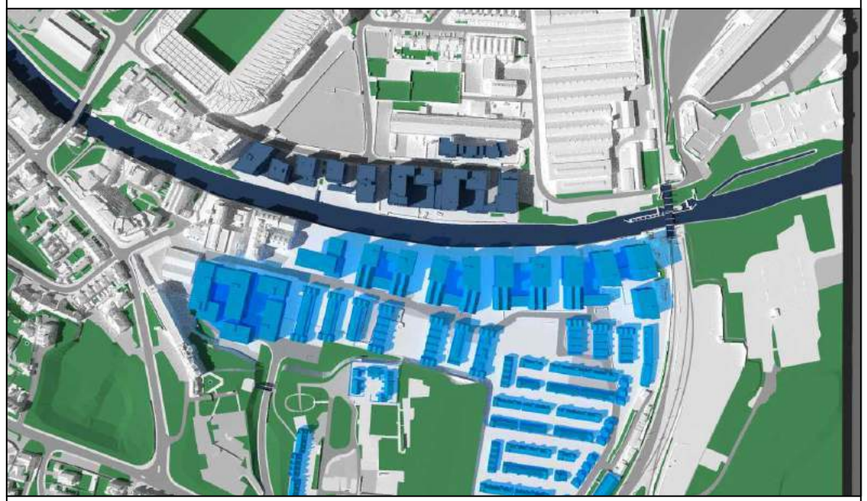
15:00 GMT

16:00 GMT

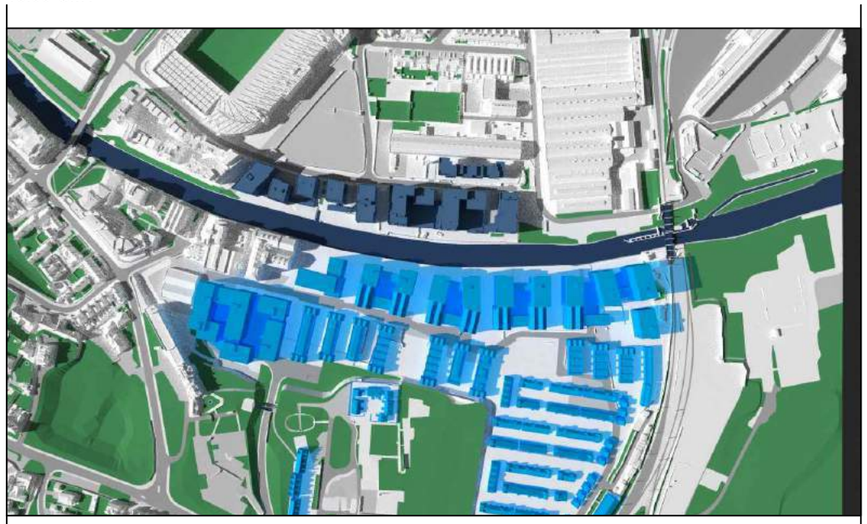
Proposed scenario - June 21st



14:00 GMT



15:00 GMT



16:00 GMT



DO NOT SCALE

SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY
- Existing buildings
- Proposed buildings
- Analysed properties
- Surrounding buildings

| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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| | | | |

CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Transient Overshadowing
Illustrative Massing

| SCALE | DATE |
|---|---|
| Not to Scale | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 456 | |

CONSIL


March 21st



DO NOT SCALE

SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY
- Amenity area
- Existing area of direct sunlight
- Proposed area of direct sunlight
- Area of loss / gain

| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
| | | | |
| | | | |

CLIENT
Fuel Properties

PROJECT
Carrow Works

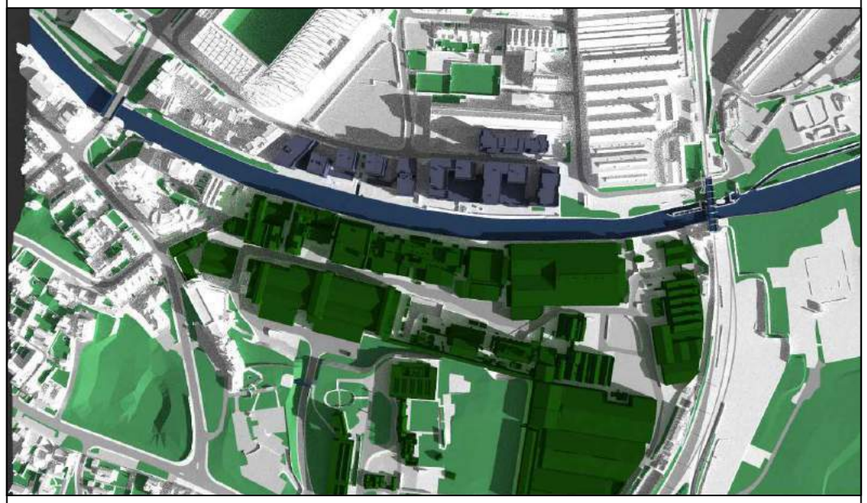
DRAWING TITLE
Permanent Overshadowing
Parameter Massing

| SCALE | DATE |
|---|---|
| [Not to Scale] | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

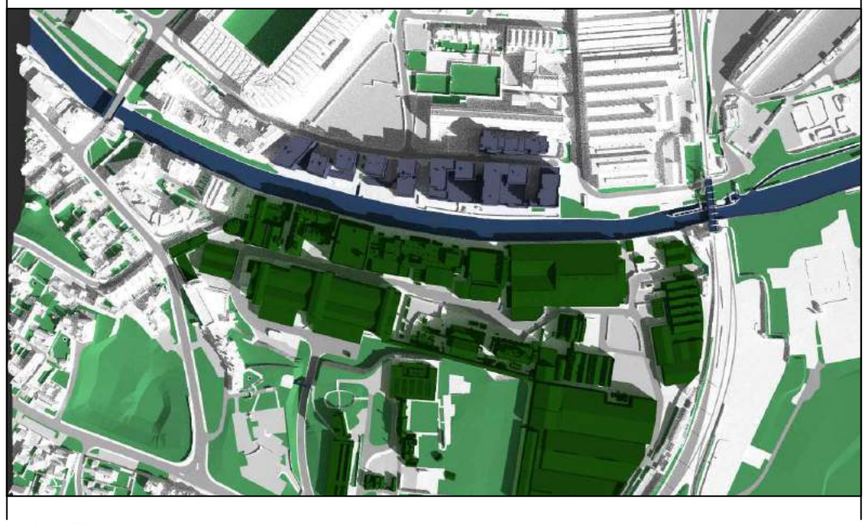
| DWG No. | REV. |
|---|---|
| D+S /1/ 401 | |

CONSIL

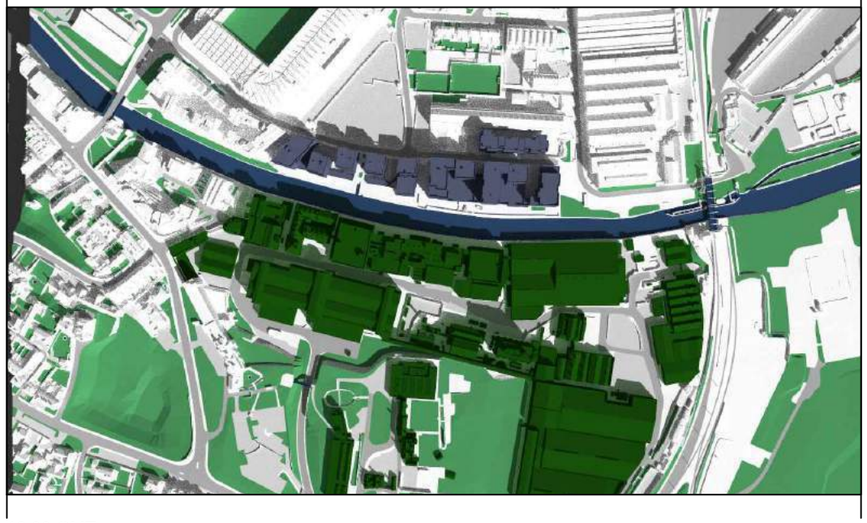
Existing scenario - March 21st



8:00 GMT

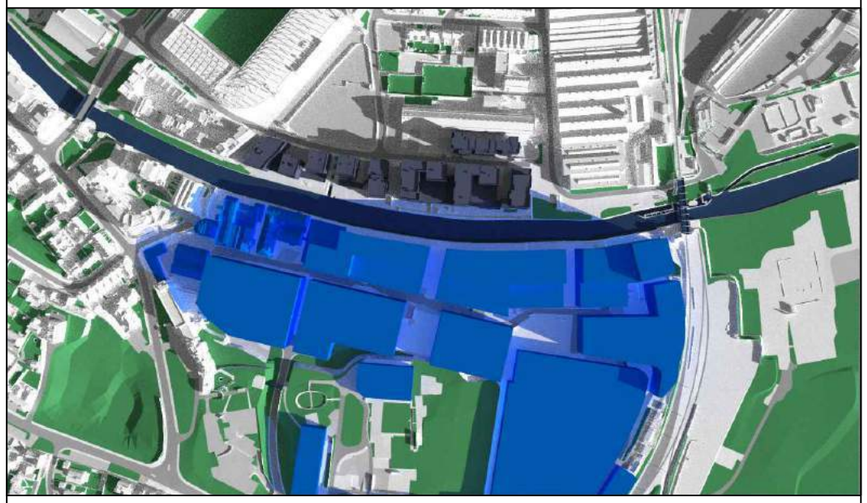


9:00 GMT

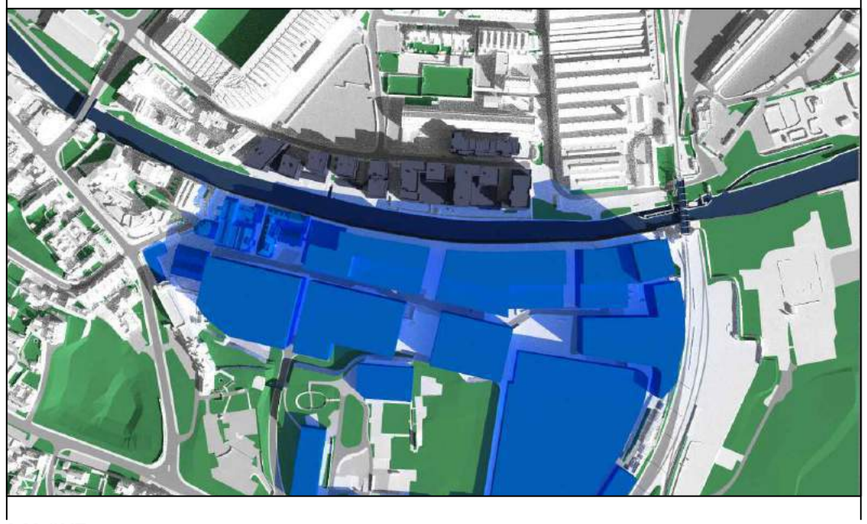


10:00 GMT

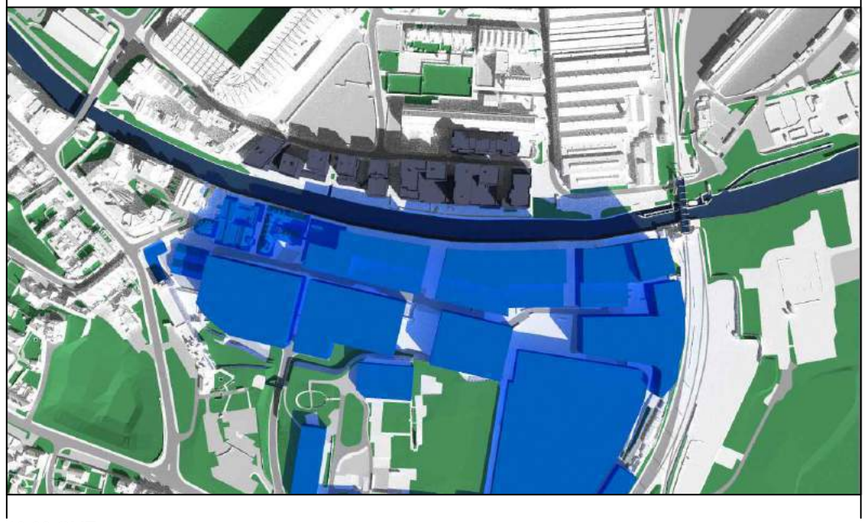
Proposed scenario - March 21st



8:00 GMT



9:00 GMT



10:00 GMT



DO NOT SCALE

SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY
- Existing buildings
- Proposed buildings
- Analysed properties
- Surrounding buildings

| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
| | | | |
| | | | |

CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Transient Overshadowing
Parameter Massing

| SCALE | DATE |
|---|---|
| Not to Scale | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 451 | |

CONSIL

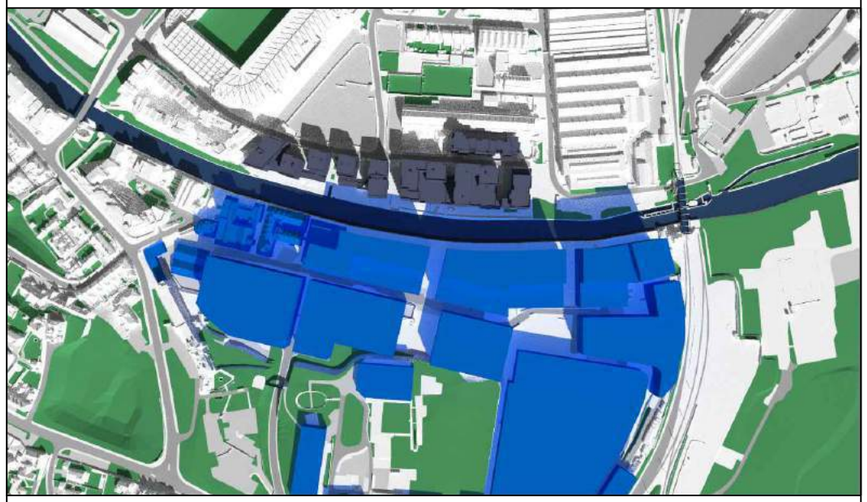
Existing scenario - March 21st

11:00 GMT

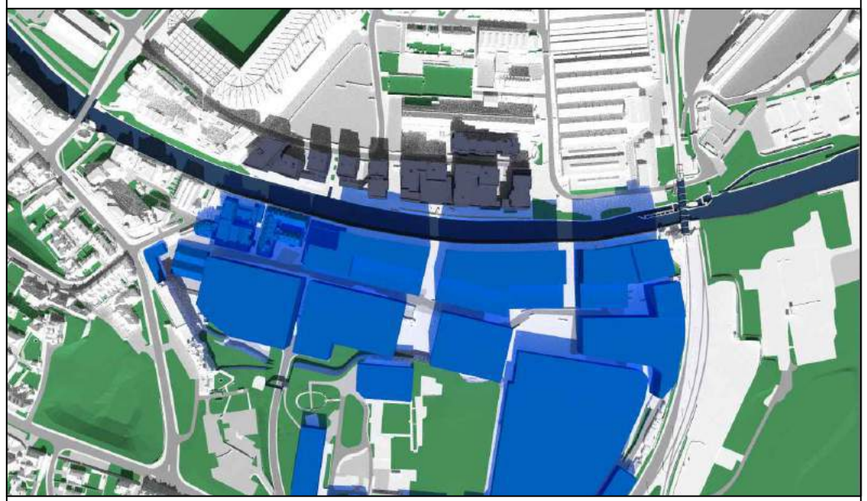
12:00 GMT

13:00 GMT

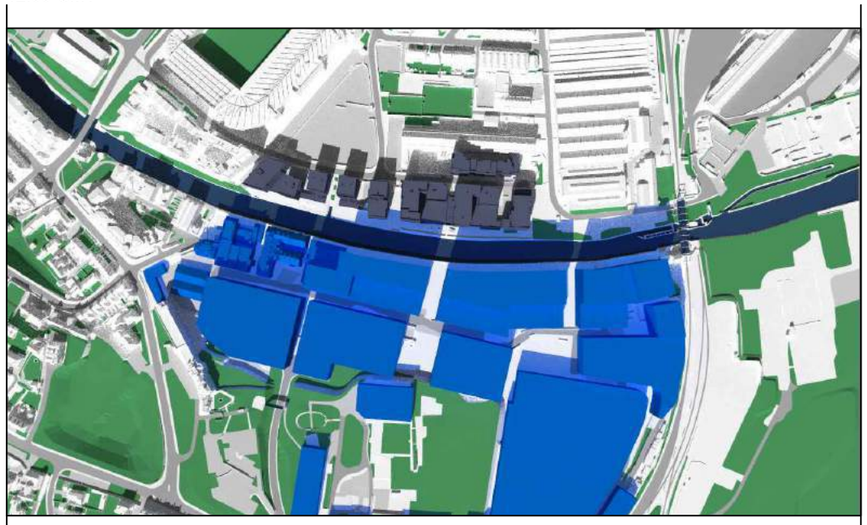
Proposed scenario - March 21st



11:00 GMT



12:00 GMT



13:00 GMT



DO NOT SCALE

SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY
- Existing buildings
- Proposed buildings
- Analysed properties
- Surrounding buildings

| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
| | | | |
| | | | |

CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Transient Overshadowing Parameter Massing

| SCALE | DATE |
|---|---|
| Not to Scale | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

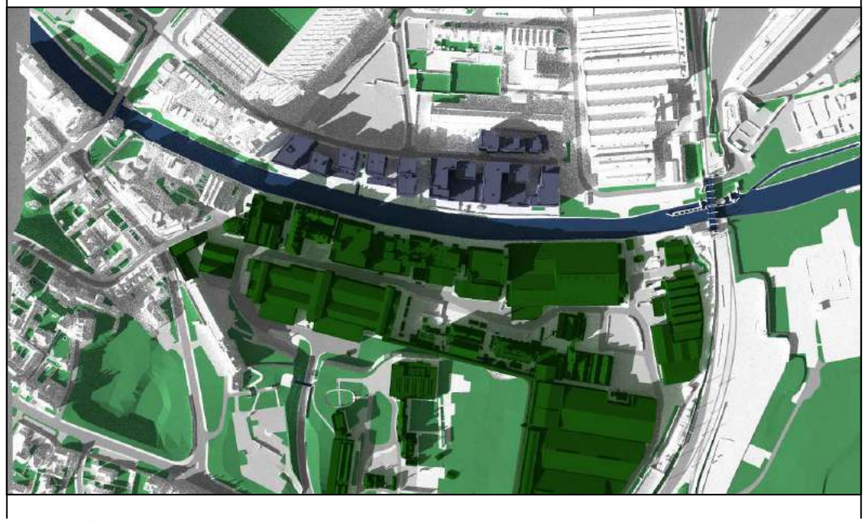
| DWG No. | REV. |
|---|---|
| D+S /1/ 452 | |

CONSIL

Existing scenario - March 21st

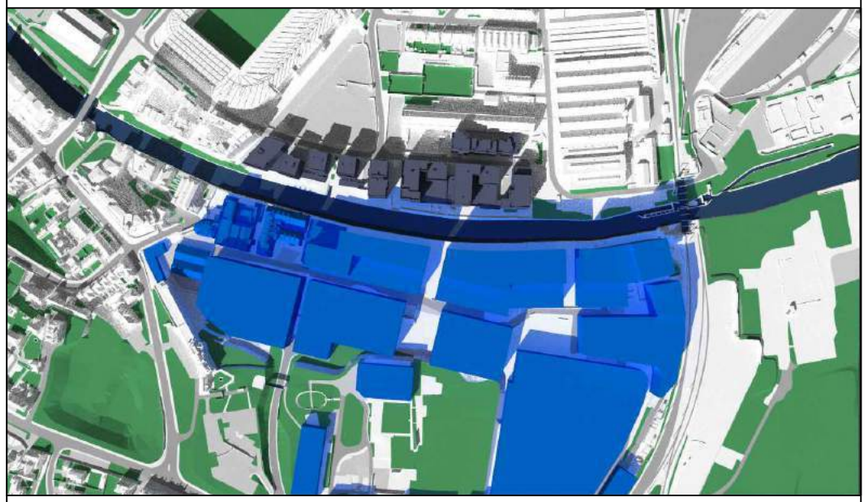
14:00 GMT

15:00 GMT

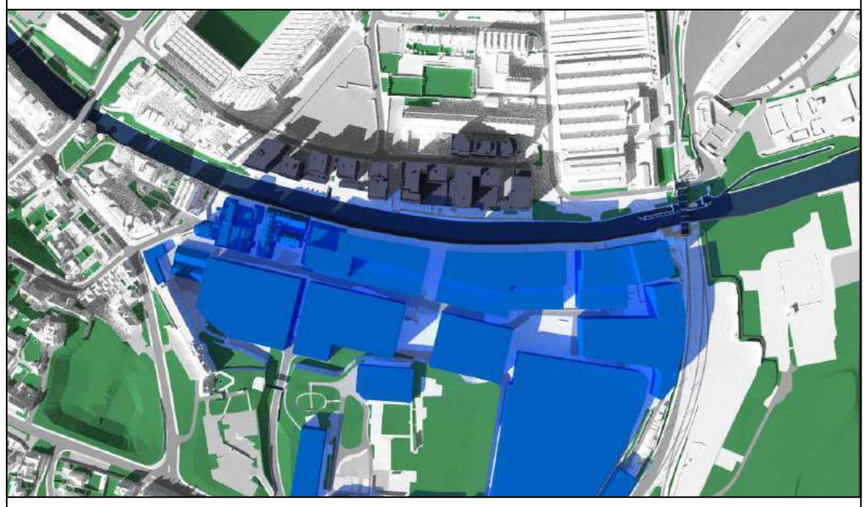


16:00 GMT

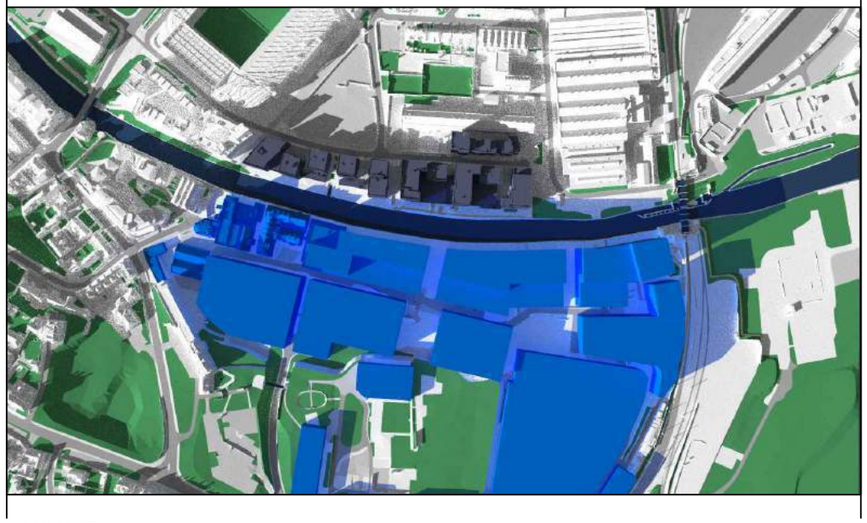
Proposed scenario - March 21st



14:00 GMT



15:00 GMT



16:00 GMT



DO NOT SCALE

SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY
- Existing buildings
- Proposed buildings
- Analysed properties
- Surrounding buildings

| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
| | | | |
| | | | |

CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Transient Overshadowing
Parameter Massing

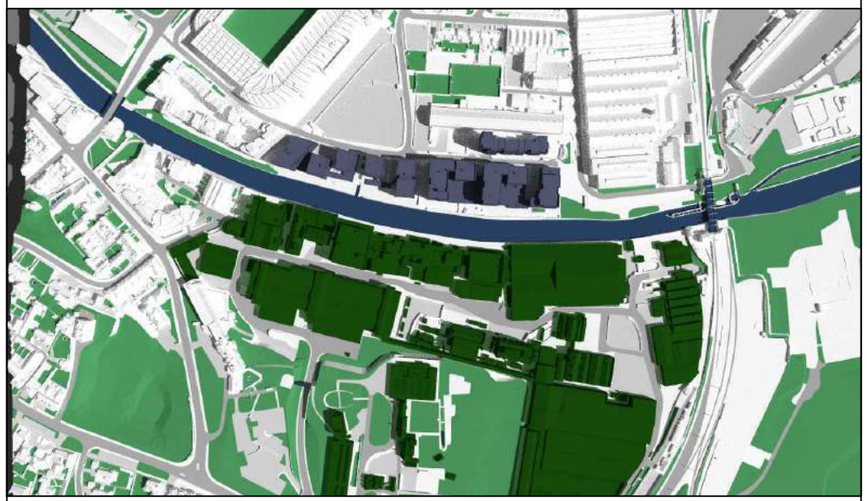
| SCALE | DATE |
|---|---|
| Not to Scale | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 453 | |

CONSIL

Existing scenario - June 21st

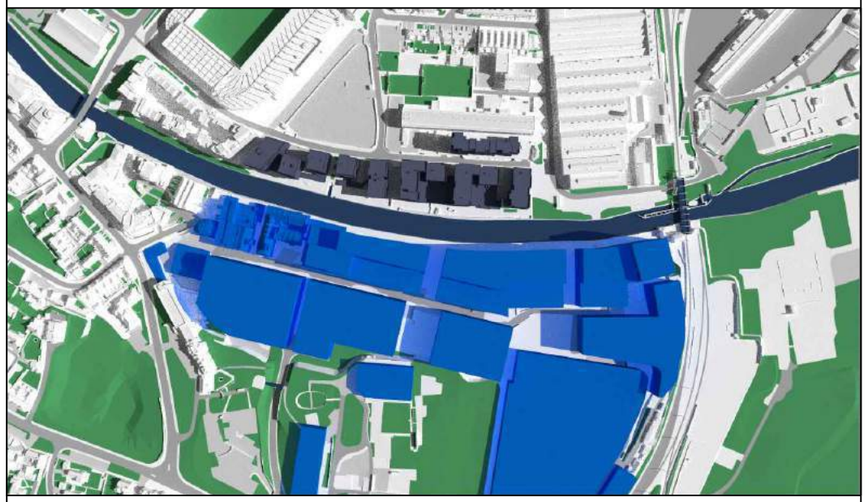
8:00 GMT



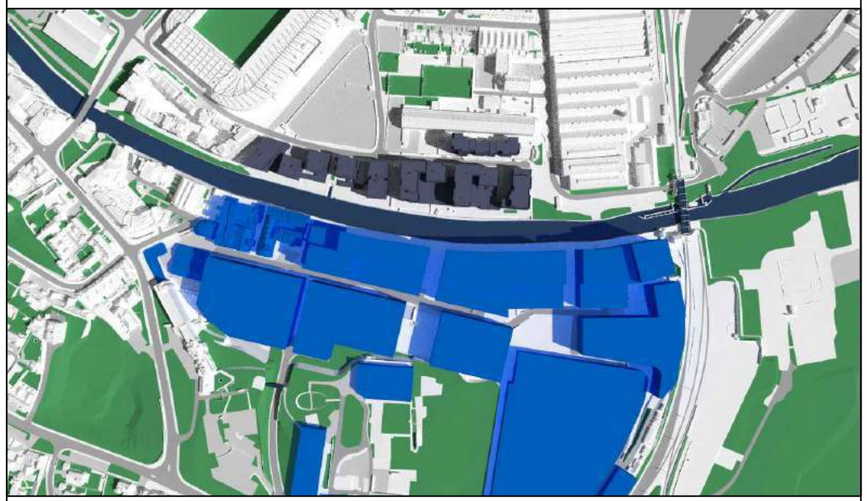
9:00 GMT

10:00 GMT

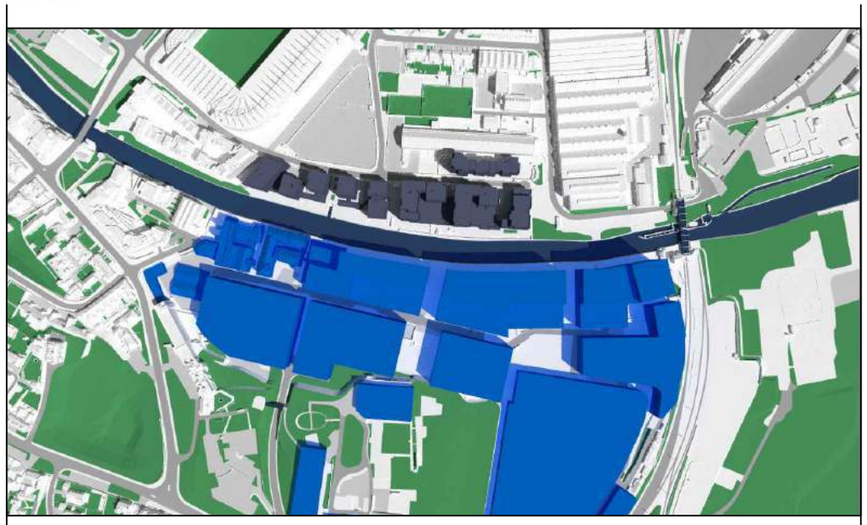
Proposed scenario - June 21st



8:00 GMT



9:00 GMT



10:00 GMT



DO NOT SCALE

SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY
- Existing buildings
- Proposed buildings
- Analysed properties
- Surrounding buildings

| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
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| | | | |

CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Transient Overshadowing Parameter Massing

| SCALE | DATE |
|---|---|
| Not to Scale | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 454 | |

CONSIL

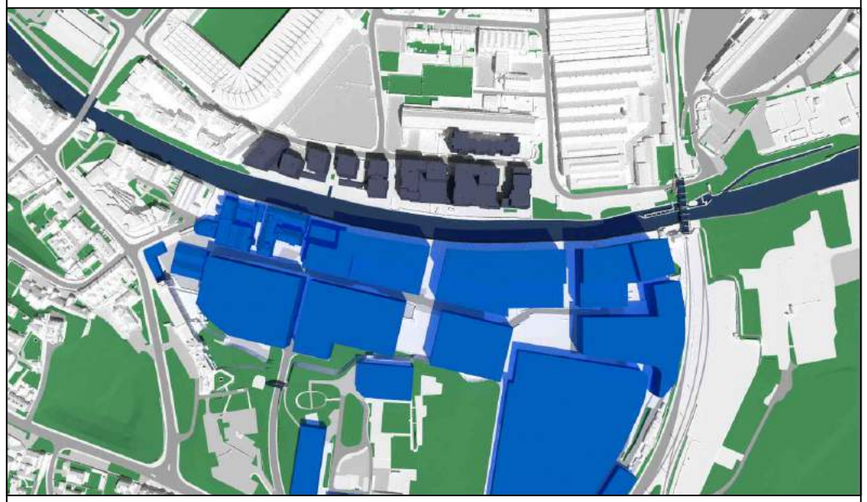
Existing scenario - June 21st

11:00 GMT

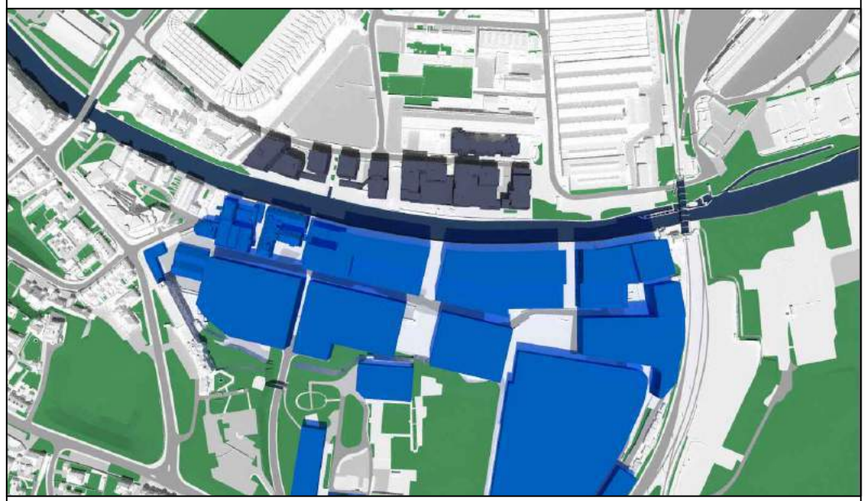
12:00 GMT

13:00 GMT

Proposed scenario - June 21st



11:00 GMT



12:00 GMT

13:00 GMT



DO NOT SCALE

SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY
- Existing buildings
- Proposed buildings
- Analysed properties
- Surrounding buildings

| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
| | | | |
| | | | |

CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Transient Overshadowing Parameter Massing

| SCALE | DATE |
|---|---|
| Not to Scale | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 455 | |

CONSIL

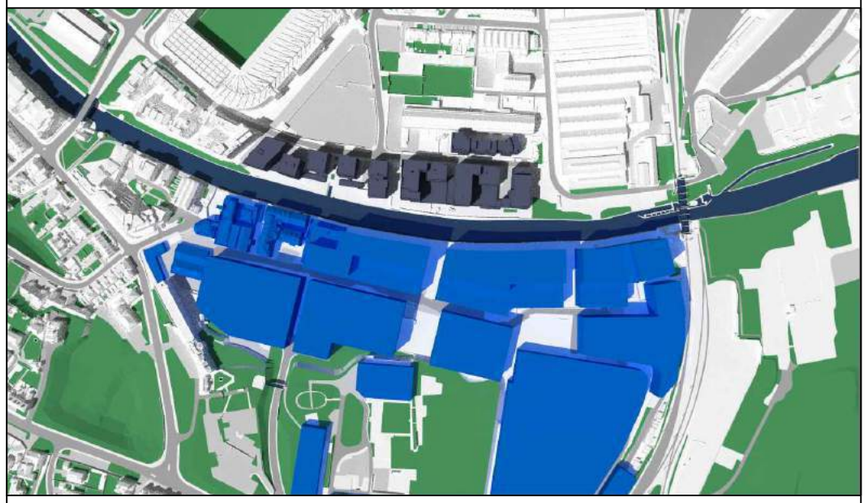
Existing scenario - June 21st

14:00 GMT

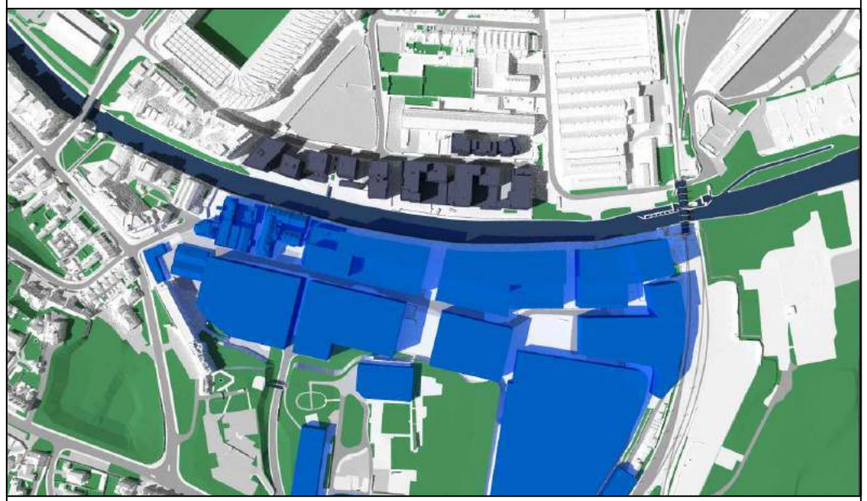
15:00 GMT

16:00 GMT

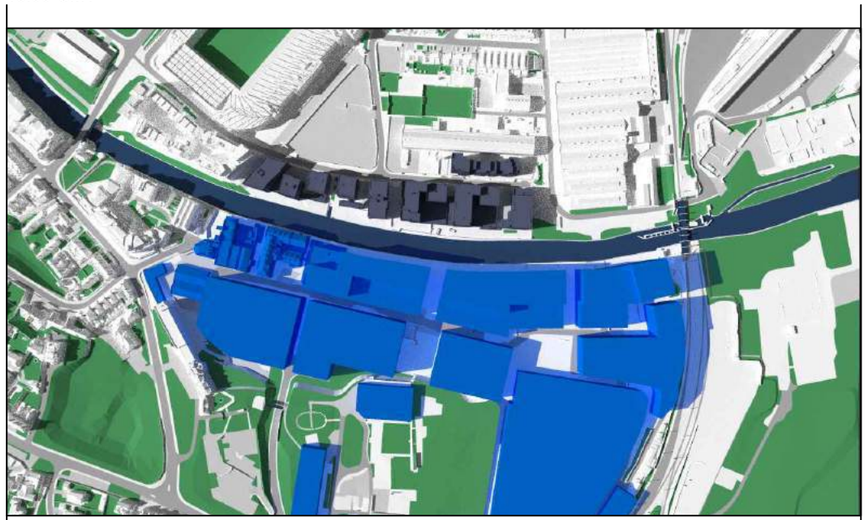
Proposed scenario - June 21st



14:00 GMT



15:00 GMT



16:00 GMT



DO NOT SCALE

SOURCES OF INFORMATION:
JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY
- Existing buildings
- Proposed buildings
- Analysed properties
- Surrounding buildings

| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
| | | | |
| | | | |

CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Transient Overshadowing Parameter Massing

| SCALE | DATE |
|---|---|
| Not to Scale | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 456 | |

CONSIL

**APPENDIX C**

**VERTICAL SKY COMPONENT, NO SKY LINE AND ANNUAL PROBABLE SUNLIGHT HOURS RESULT SPREADSHEETS FOR SURROUNDING PROPERTIES**

**Daylight and Sunlight Illustrative Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| **Brennan Bank Geoffrey Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 8.80 | 8.51 | 0.29 | 3 | Yes | 99 | 99 | 0 | Yes | 17 | 17 | 0 | Yes | 14 | 14 | 0 | Yes |
| First R2 / W2 | Bedroom | 8.62 | 8.31 | 0.31 | 4 | Yes | 100 | 100 | 0 | Yes | 15 | 15 | 0 | Yes | 14 | 14 | 0 | Yes |
| First R3 / W3 | Bedroom | 8.51 | 8.20 | 0.31 | 4 | Yes | 100 | 100 | 0 | Yes | 15 | 15 | 0 | Yes | 14 | 14 | 0 | Yes |
| First R4 / W4 | LKD | 8.39 | 8.03 | 0.36 | 4 | Yes | 95 | 95 | 1 | Yes | 14 | 14 | 0 | Yes | 13 | 13 | 0 | Yes |
| First R5 / W5 | Bedroom | 8.30 | 7.84 | 0.46 | 6 | Yes | 99 | 99 | 0 | Yes | 13 | 13 | 0 | Yes | 12 | 12 | 0 | Yes |
| First R5 / W6 | | 8.58 | 8.07 | 0.51 | 6 | Yes | | | | | 15 | 15 | 0 | Yes | 14 | 14 | 0 | Yes |
| First R6 / W7 | Bedroom | 3.42 | 3.20 | 0.22 | 6 | Yes | 78 | 75 | 4 | Yes | 7 | 7 | 0 | Yes | 6 | 6 | 0 | Yes |
| First R7 / W8 | LKD | 3.76 | 3.48 | 0.28 | 7 | Yes | 36 | 32 | 12 | Yes | 9 | 9 | 0 | Yes | 8 | 8 | 0 | Yes |
| First R8 / W9 | LKD | 4.03 | 3.88 | 0.15 | 4 | Yes | 31 | 29 | 9 | Yes | 7 | 7 | 0 | Yes | 6 | 6 | 0 | Yes |
| First R9 / W10 | Bedroom | 3.05 | 2.95 | 0.10 | 3 | Yes | 36 | 36 | 0 | Yes | 9 | 9 | 0 | Yes | 8 | 8 | 0 | Yes |
| First R10 / W11 | Bedroom | 1.95 | 1.86 | 0.09 | 5 | Yes | 30 | 30 | 0 | Yes | 7 | 7 | 0 | Yes | 3 | 3 | 0 | Yes |
| First R11 / W12 | LKD | 1.46 | 1.38 | 0.08 | 5 | Yes | 18 | 18 | 0 | Yes | 5 | 5 | 0 | Yes | 2 | 2 | 0 | Yes |
| Second R1 / W1 | LKD | 10.02 | 9.60 | 0.42 | 4 | Yes | 99 | 99 | 0 | Yes | 16 | 16 | 0 | Yes | 15 | 15 | 0 | Yes |
| Second R2 / W2 | Bedroom | 10.05 | 9.59 | 0.46 | 5 | Yes | 100 | 100 | 0 | Yes | 17 | 16 | 6 | Yes | 16 | 15 | 6 | Yes |
| Second R3 / W3 | Bedroom | 9.97 | 9.48 | 0.49 | 5 | Yes | 100 | 100 | 0 | Yes | 16 | 15 | 6 | Yes | 15 | 14 | 7 | Yes |
| Second R4 / W4 | LKD | 9.87 | 9.31 | 0.56 | 6 | Yes | 96 | 96 | 0 | Yes | 16 | 15 | 6 | Yes | 15 | 14 | 7 | Yes |
| Second R5 / W5 | Bedroom | 9.71 | 9.13 | 0.58 | 6 | Yes | 99 | 98 | 1 | Yes | 15 | 14 | 7 | Yes | 14 | 13 | 7 | Yes |
| Second R6 / W6 | Bedroom | 8.82 | 8.36 | 0.46 | 5 | Yes | 95 | 95 | 0 | Yes | 13 | 13 | 0 | Yes | 12 | 12 | 0 | Yes |
| Second R7 / W7 | Bedroom | 4.43 | 4.02 | 0.41 | 9 | Yes | 81 | 75 | 7 | Yes | 11 | 11 | 0 | Yes | 10 | 10 | 0 | Yes |
| Second R8 / W8 | LKD | 4.29 | 3.99 | 0.30 | 7 | Yes | 38 | 33 | 11 | Yes | 10 | 10 | 0 | Yes | 9 | 9 | 0 | Yes |
| Second R9 / W9 | LKD | 4.53 | 4.38 | 0.15 | 3 | Yes | 32 | 31 | 2 | Yes | 9 | 9 | 0 | Yes | 8 | 8 | 0 | Yes |
| Second R10 / W10 | Bedroom | 3.55 | 3.43 | 0.12 | 3 | Yes | 37 | 37 | 0 | Yes | 11 | 11 | 0 | Yes | 8 | 8 | 0 | Yes |
| Second R11 / W11 | Bedroom | 2.14 | 2.04 | 0.10 | 5 | Yes | 31 | 31 | 0 | Yes | 7 | 7 | 0 | Yes | 3 | 3 | 0 | Yes |
| Second R12 / W12 | LKD | 0.96 | 0.87 | 0.09 | 9 | Yes | 17 | 17 | 0 | Yes | 4 | 4 | 0 | Yes | 2 | 2 | 0 | Yes |
| Third R1 / W1 | LKD | 11.51 | 11.01 | 0.50 | 4 | Yes | 100 | 100 | 0 | Yes | 20 | 20 | 0 | Yes | 17 | 17 | 0 | Yes |
| Third R2 / W2 | Bedroom | 11.38 | 10.81 | 0.57 | 5 | Yes | 100 | 100 | 0 | Yes | 20 | 19 | 5 | Yes | 19 | 18 | 5 | Yes |
| Third R3 / W3 | Bedroom | 11.31 | 10.70 | 0.61 | 5 | Yes | 100 | 100 | 0 | Yes | 20 | 19 | 5 | Yes | 19 | 18 | 5 | Yes |
| Third R4 / W4 | LKD | 11.22 | 10.54 | 0.68 | 6 | Yes | 96 | 96 | 0 | Yes | 19 | 18 | 5 | Yes | 18 | 17 | 6 | Yes |
| Third R5 / W5 | Bedroom | 11.17 | 10.41 | 0.76 | 7 | Yes | 99 | 99 | 0 | Yes | 19 | 18 | 5 | Yes | 18 | 17 | 6 | Yes |
| Third R6 / W6 | Bedroom | 11.48 | 10.69 | 0.79 | 7 | Yes | 97 | 97 | 0 | Yes | 21 | 20 | 5 | Yes | 20 | 19 | 5 | Yes |
| Third R7 / W7 | Bedroom | 4.65 | 4.32 | 0.33 | 7 | Yes | 82 | 82 | 0 | Yes | 9 | 9 | 0 | Yes | 8 | 8 | 0 | Yes |
| Third R8 / W8 | LKD | 4.93 | 4.58 | 0.35 | 7 | Yes | 45 | 41 | 10 | Yes | 10 | 10 | 0 | Yes | 9 | 9 | 0 | Yes |
| Third R9 / W9 | LKD | 5.62 | 5.42 | 0.20 | 4 | Yes | 33 | 32 | 3 | Yes | 10 | 10 | 0 | Yes | 8 | 8 | 0 | Yes |
| Third R10 / W10 | Bedroom | 3.94 | 3.81 | 0.13 | 3 | Yes | 37 | 37 | 0 | Yes | 9 | 9 | 0 | Yes | 8 | 8 | 0 | Yes |
| Third R11 / W11 | Bedroom | 2.52 | 2.40 | 0.12 | 5 | Yes | 32 | 32 | 0 | Yes | 7 | 7 | 0 | Yes | 3 | 3 | 0 | Yes |
| Third R12 / W12 | LKD | 1.98 | 1.89 | 0.09 | 5 | Yes | 21 | 21 | 0 | Yes | 5 | 5 | 0 | Yes | 2 | 2 | 0 | Yes |
| Fourth R1 / W1 | LKD | 12.36 | 11.80 | 0.56 | 5 | Yes | 99 | 99 | 0 | Yes | 21 | 20 | 5 | Yes | 20 | 19 | 5 | Yes |
| Fourth R2 / W2 | Bedroom | 12.52 | 11.89 | 0.63 | 5 | Yes | 100 | 100 | 0 | Yes | 20 | 19 | 5 | Yes | 19 | 18 | 5 | Yes |
| Fourth R3 / W3 | Bedroom | 12.49 | 11.82 | 0.67 | 5 | Yes | 100 | 100 | 0 | Yes | 20 | 19 | 5 | Yes | 19 | 18 | 5 | Yes |
| Fourth R4 / W4 | LKD | 12.44 | 11.70 | 0.74 | 6 | Yes | 97 | 97 | 0 | Yes | 20 | 19 | 5 | Yes | 19 | 18 | 5 | Yes |
| Fourth R5 / W5 | Bedroom | 12.33 | 11.58 | 0.75 | 6 | Yes | 100 | 100 | 0 | Yes | 20 | 19 | 5 | Yes | 19 | 18 | 5 | Yes |
| Fourth R6 / W6 | Bedroom | 11.06 | 10.48 | 0.58 | 5 | Yes | 99 | 99 | 0 | Yes | 17 | 17 | 0 | Yes | 16 | 16 | 0 | Yes |
| Fourth R7 / W7 | Bedroom | 5.92 | 5.39 | 0.53 | 9 | Yes | 82 | 81 | 2 | Yes | 11 | 11 | 0 | Yes | 10 | 10 | 0 | Yes |
| Fourth R8 / W8 | LKD | 6.34 | 5.97 | 0.37 | 6 | Yes | 44 | 40 | 11 | Yes | 11 | 11 | 0 | Yes | 9 | 9 | 0 | Yes |
| Fourth R9 / W9 | LKD | 8.50 | 8.32 | 0.18 | 2 | Yes | 33 | 33 | 1 | Yes | 19 | 19 | 0 | Yes | 10 | 10 | 0 | Yes |
| Fourth R10 / W10 | Bedroom | 5.38 | 5.24 | 0.14 | 3 | Yes | 40 | 40 | 0 | Yes | 13 | 13 | 0 | Yes | 9 | 9 | 0 | Yes |
| Fourth R11 / W11 | Bedroom | 3.12 | 2.99 | 0.13 | 4 | Yes | 38 | 38 | 0 | Yes | 7 | 7 | 0 | Yes | 3 | 3 | 0 | Yes |
| Fourth R12 / W12 | LKD | 1.77 | 1.66 | 0.11 | 6 | Yes | 25 | 25 | 0 | Yes | 4 | 4 | 0 | Yes | 2 | 2 | 0 | Yes |
| Fifth R1 / W1 | LKD | 13.69 | 13.12 | 0.57 | 4 | Yes | 100 | 100 | 0 | Yes | 23 | 22 | 4 | Yes | 20 | 19 | 5 | Yes |
| Fifth R2 / W2 | Bedroom | 13.59 | 12.94 | 0.65 | 5 | Yes | 100 | 100 | 0 | Yes | 20 | 19 | 5 | Yes | 19 | 18 | 5 | Yes |
| Fifth R3 / W3 | Bedroom | 13.58 | 12.87 | 0.71 | 5 | Yes | 100 | 100 | 0 | Yes | 20 | 19 | 5 | Yes | 19 | 18 | 5 | Yes |

**Daylight and Sunlight Illustrative Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Fifth R4 / W4 | LKD | 13.55 | 12.78 | 0.77 | 6 | Yes | 98 | 98 | 0 | Yes | 21 | 20 | 5 | Yes | 20 | 19 | 5 | Yes |
| Fifth R5 / W5 | Bedroom | 13.56 | 12.72 | 0.84 | 6 | Yes | 100 | 100 | 0 | Yes | 21 | 20 | 5 | Yes | 20 | 19 | 5 | Yes |
| Fifth R6 / W6 | Bedroom | 13.93 | 13.06 | 0.87 | 6 | Yes | 99 | 99 | 0 | Yes | 23 | 22 | 4 | Yes | 22 | 21 | 5 | Yes |
| Fifth R7 / W7 | Bedroom | 8.10 | 7.71 | 0.39 | 5 | Yes | 91 | 91 | 0 | Yes | 13 | 13 | 0 | Yes | 9 | 9 | 0 | Yes |
| Fifth R8 / W8 | LKD | 10.51 | 10.14 | 0.37 | 4 | Yes | 57 | 54 | 6 | Yes | 19 | 19 | 0 | Yes | 10 | 10 | 0 | Yes |
| Fifth R9 / W9 | LKD | 13.69 | 13.50 | 0.19 | 1 | Yes | 42 | 41 | 0 | Yes | 29 | 29 | 0 | Yes | 10 | 10 | 0 | Yes |
| Fifth R10 / W10 | Bedroom | 9.42 | 9.27 | 0.15 | 2 | Yes | 51 | 51 | 0 | Yes | 20 | 20 | 0 | Yes | 11 | 11 | 0 | Yes |
| Fifth R11 / W11 | Bedroom | 4.65 | 4.51 | 0.14 | 3 | Yes | 43 | 43 | 0 | Yes | 11 | 11 | 0 | Yes | 6 | 6 | 0 | Yes |
| Fifth R12 / W12 | LKD | 3.54 | 3.41 | 0.13 | 4 | Yes | 33 | 33 | 0 | Yes | 9 | 9 | 0 | Yes | 4 | 4 | 0 | Yes |
| Sixth R1 / W1 | LKD | 14.21 | 13.66 | 0.55 | 4 | Yes | 99 | 99 | 0 | Yes | 21 | 21 | 0 | Yes | 20 | 20 | 0 | Yes |
| Sixth R2 / W2 | Bedroom | 14.45 | 13.84 | 0.61 | 4 | Yes | 100 | 100 | 0 | Yes | 21 | 21 | 0 | Yes | 20 | 20 | 0 | Yes |
| Sixth R3 / W3 | Bedroom | 14.46 | 13.80 | 0.66 | 5 | Yes | 100 | 100 | 0 | Yes | 21 | 21 | 0 | Yes | 20 | 20 | 0 | Yes |
| Sixth R4 / W4 | LKD | 14.46 | 13.74 | 0.72 | 5 | Yes | 98 | 98 | 0 | Yes | 21 | 21 | 0 | Yes | 20 | 20 | 0 | Yes |
| Sixth R5 / W5 | Bedroom | 14.37 | 13.67 | 0.70 | 5 | Yes | 100 | 100 | 0 | Yes | 21 | 21 | 0 | Yes | 20 | 20 | 0 | Yes |
| Sixth R6 / W6 | Bedroom | 12.79 | 12.30 | 0.49 | 4 | Yes | 99 | 99 | 0 | Yes | 18 | 18 | 0 | Yes | 17 | 17 | 0 | Yes |
| Sixth R7 / W7 | Bedroom | 35.27 | 34.70 | 0.57 | 2 | Yes | 100 | 100 | 0 | Yes | 63 | 63 | 0 | Yes | 20 | 20 | 0 | Yes |
| Sixth R8 / W8 | LKD | 30.74 | 30.33 | 0.41 | 1 | Yes | 97 | 97 | 0 | Yes | 61 | 61 | 0 | Yes | 22 | 22 | 0 | Yes |
| Sixth R9 / W9 | LKD | 23.13 | 22.93 | 0.20 | 1 | Yes | 91 | 91 | 0 | Yes | 50 | 50 | 0 | Yes | 20 | 20 | 0 | Yes |
| Sixth R10 / W10 | Bedroom | 16.30 | 16.17 | 0.13 | 1 | Yes | 100 | 100 | 0 | Yes | 35 | 35 | 0 | Yes | 16 | 16 | 0 | Yes |
| Sixth R11 / W11 | Bedroom | 11.05 | 10.92 | 0.13 | 1 | Yes | 98 | 98 | 0 | Yes | 21 | 21 | 0 | Yes | 12 | 12 | 0 | Yes |
| Sixth R12 / W12 | LKD | 7.04 | 6.94 | 0.10 | 1 | Yes | 54 | 54 | 0 | Yes | 13 | 13 | 0 | Yes | 9 | 9 | 0 | Yes |
| **Lochhead Bank Geoffrey Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 10.15 | 9.66 | 0.49 | 5 | Yes | 91 | 90 | 0 | Yes | 16 | 15 | 6 | Yes | 14 | 13 | 7 | Yes |
| First R2 / W2 | Bedroom | 9.90 | 9.40 | 0.50 | 5 | Yes | 86 | 86 | 0 | Yes | 17 | 16 | 6 | Yes | 14 | 13 | 7 | Yes |
| First R3 / W3 | Bedroom | 9.65 | 9.19 | 0.46 | 5 | Yes | 91 | 91 | 0 | Yes | 17 | 16 | 6 | Yes | 14 | 13 | 7 | Yes |
| First R4 / W4 | LKD | 9.30 | 8.95 | 0.35 | 4 | Yes | 93 | 92 | 0 | Yes | 15 | 15 | 0 | Yes | 12 | 12 | 0 | Yes |
| Second R1 / W1 | LKD | 11.91 | 11.31 | 0.60 | 5 | Yes | 98 | 97 | 0 | Yes | 21 | 18 | 14 | Yes | 18 | 15 | 17 | Yes |
| Second R2 / W2 | Bedroom | 11.62 | 11.01 | 0.61 | 5 | Yes | 97 | 97 | 0 | Yes | 21 | 18 | 14 | Yes | 18 | 15 | 17 | Yes |
| Second R3 / W3 | Bedroom | 11.41 | 10.84 | 0.57 | 5 | Yes | 100 | 100 | 0 | Yes | 20 | 18 | 10 | Yes | 17 | 15 | 12 | Yes |
| Second R4 / W4 | LKD | 11.23 | 10.69 | 0.54 | 5 | Yes | 99 | 99 | 0 | Yes | 20 | 19 | 5 | Yes | 17 | 16 | 6 | Yes |
| Third R1 / W1 | LKD | 13.37 | 12.68 | 0.69 | 5 | Yes | 99 | 99 | 0 | Yes | 24 | 23 | 4 | Yes | 22 | 21 | 5 | Yes |
| Third R2 / W2 | Bedroom | 13.26 | 12.57 | 0.69 | 5 | Yes | 100 | 100 | 0 | Yes | 25 | 23 | 8 | Yes | 22 | 20 | 9 | Yes |
| Third R3 / W3 | Bedroom | 13.10 | 12.46 | 0.64 | 5 | Yes | 100 | 100 | 0 | Yes | 25 | 23 | 8 | Yes | 22 | 20 | 9 | Yes |
| Third R4 / W4 | LKD | 12.81 | 12.29 | 0.52 | 4 | Yes | 99 | 99 | 0 | Yes | 22 | 21 | 5 | Yes | 19 | 18 | 5 | Yes |
| Fourth R1 / W1 | LKD | 15.01 | 14.26 | 0.75 | 5 | Yes | 99 | 99 | 0 | Yes | 25 | 24 | 4 | Yes | 22 | 21 | 5 | Yes |
| Fourth R2 / W2 | Bedroom | 14.84 | 14.09 | 0.75 | 5 | Yes | 100 | 100 | 0 | Yes | 25 | 24 | 4 | Yes | 22 | 21 | 5 | Yes |
| Fourth R3 / W3 | Bedroom | 14.74 | 14.00 | 0.74 | 5 | Yes | 100 | 100 | 0 | Yes | 25 | 24 | 4 | Yes | 22 | 21 | 5 | Yes |
| Fourth R4 / W4 | LKD | 14.66 | 13.96 | 0.70 | 5 | Yes | 99 | 99 | 0 | Yes | 26 | 24 | 8 | Yes | 23 | 21 | 9 | Yes |
| Fifth R1 / W1 | LKD | 16.15 | 15.33 | 0.82 | 5 | Yes | 99 | 99 | 0 | Yes | 25 | 24 | 4 | Yes | 23 | 22 | 4 | Yes |
| Fifth R2 / W2 | Bedroom | 16.19 | 15.36 | 0.83 | 5 | Yes | 100 | 100 | 0 | Yes | 26 | 25 | 4 | Yes | 23 | 22 | 4 | Yes |
| Fifth R3 / W3 | Bedroom | 16.13 | 15.30 | 0.83 | 5 | Yes | 100 | 100 | 0 | Yes | 26 | 25 | 4 | Yes | 23 | 22 | 4 | Yes |
| Fifth R4 / W4 | LKD | 15.92 | 15.14 | 0.78 | 5 | Yes | 99 | 99 | 0 | Yes | 25 | 25 | 0 | Yes | 22 | 22 | 0 | Yes |
| Sixth R1 / W1 | LKD | 38.29 | 37.41 | 0.88 | 2 | Yes | 99 | 99 | 0 | Yes | 86 | 85 | 1 | Yes | 30 | 29 | 3 | Yes |
| Sixth R2 / W2 | Bedroom | 38.25 | 37.34 | 0.91 | 2 | Yes | 100 | 100 | 0 | Yes | 86 | 85 | 1 | Yes | 30 | 29 | 3 | Yes |
| Sixth R3 / W3 | Bedroom | 38.24 | 37.28 | 0.96 | 3 | Yes | 100 | 100 | 0 | Yes | 86 | 85 | 1 | Yes | 30 | 29 | 3 | Yes |
| Sixth R4 / W4 | LKD | 38.19 | 37.19 | 1.00 | 3 | Yes | 99 | 99 | 0 | Yes | 86 | 85 | 1 | Yes | 30 | 29 | 3 | Yes |
| **Robinson Bank Geoffrey Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 10.19 | 9.35 | 0.84 | 8 | Yes | 94 | 91 | 3 | Yes | 20 | 17 | 15 | Yes | 19 | 16 | 16 | Yes |
| First R2 / W2 | Bedroom | 10.80 | 9.84 | 0.96 | 9 | Yes | 99 | 99 | 0 | Yes | 21 | 18 | 14 | Yes | 19 | 16 | 16 | Yes |
| First R3 / W3 | LKD | 11.01 | 9.95 | 1.06 | 10 | Yes | 97 | 95 | 2 | Yes | 22 | 19 | 14 | Yes | 20 | 17 | 15 | Yes |
| Second R1 / W1 | LKD | 11.48 | 10.57 | 0.91 | 8 | Yes | 99 | 97 | 1 | Yes | 22 | 20 | 9 | Yes | 21 | 19 | 10 | Yes |

**Daylight and Sunlight Illustrative Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Second R2 / W2 | Bedroom | 11.93 | 10.96 | 0.97 | 8 | Yes | 100 | 100 | 0 | Yes | 22 | 20 | 9 | Yes | 21 | 19 | 10 | Yes |
| Second R3 / W3 | Bedroom | 12.13 | 11.10 | 1.03 | 8 | Yes | 100 | 100 | 0 | Yes | 24 | 22 | 8 | Yes | 22 | 20 | 9 | Yes |
| Second R4 / W4 | LKD | 12.17 | 11.11 | 1.06 | 9 | Yes | 98 | 97 | 1 | Yes | 22 | 21 | 5 | Yes | 20 | 19 | 5 | Yes |
| Third R1 / W1 | LKD | 12.76 | 11.79 | 0.97 | 8 | Yes | 99 | 98 | 1 | Yes | 24 | 22 | 8 | Yes | 23 | 21 | 9 | Yes |
| Third R2 / W2 | Bedroom | 13.22 | 12.19 | 1.03 | 8 | Yes | 100 | 100 | 0 | Yes | 23 | 21 | 9 | Yes | 22 | 20 | 9 | Yes |
| Third R3 / W3 | Bedroom | 13.43 | 12.33 | 1.10 | 8 | Yes | 100 | 100 | 0 | Yes | 25 | 23 | 8 | Yes | 23 | 21 | 9 | Yes |
| Third R4 / W4 | LKD | 13.68 | 12.47 | 1.21 | 9 | Yes | 98 | 98 | 1 | Yes | 26 | 22 | 15 | Yes | 24 | 20 | 17 | Yes |
| Fourth R1 / W1 | LKD | 14.02 | 12.97 | 1.05 | 7 | Yes | 99 | 99 | 0 | Yes | 25 | 24 | 4 | Yes | 24 | 23 | 4 | Yes |
| Fourth R2 / W2 | Bedroom | 14.50 | 13.38 | 1.12 | 8 | Yes | 100 | 100 | 0 | Yes | 25 | 24 | 4 | Yes | 24 | 23 | 4 | Yes |
| Fourth R3 / W3 | Bedroom | 14.70 | 13.51 | 1.19 | 8 | Yes | 100 | 100 | 0 | Yes | 26 | 25 | 4 | Yes | 24 | 23 | 4 | Yes |
| Fourth R4 / W4 | LKD | 14.71 | 13.49 | 1.22 | 8 | Yes | 98 | 98 | 0 | Yes | 25 | 25 | 0 | Yes | 23 | 23 | 0 | Yes |
| Fifth R1 / W1 | LKD | 32.72 | 31.53 | 1.19 | 4 | Yes | 99 | 99 | 0 | Yes | 74 | 73 | 1 | Yes | 28 | 27 | 4 | Yes |
| Fifth R2 / W2 | Bedroom | 33.05 | 31.78 | 1.27 | 4 | Yes | 100 | 100 | 0 | Yes | 75 | 74 | 1 | Yes | 28 | 27 | 4 | Yes |
| Fifth R3 / W3 | Bedroom | 33.25 | 31.91 | 1.34 | 4 | Yes | 100 | 100 | 0 | Yes | 77 | 76 | 1 | Yes | 30 | 29 | 3 | Yes |
| Fifth R4 / W4 | LKD | 33.60 | 32.15 | 1.45 | 4 | Yes | 99 | 99 | 0 | Yes | 81 | 80 | 1 | Yes | 30 | 29 | 3 | Yes |
| Sixth R1 / W1 | LKD | 5.73 | 4.61 | 1.12 | 20 | Yes | 100 | 100 | 0 | Yes | 6 | 5 | 17 | Yes | 6 | 5 | 17 | Yes |
| Sixth R2 / W2 | LKD | 6.01 | 4.54 | 1.47 | 24 | No | 100 | 100 | 0 | Yes | 7 | 7 | 0 | Yes | 7 | 7 | 0 | Yes |
| Seventh R1 / W1 | LKD | 17.71 | 16.49 | 1.22 | 7 | Yes | 99 | 99 | 0 | Yes | 28 | 27 | 4 | Yes | 26 | 25 | 4 | Yes |
| Seventh R2 / W2 | Bedroom | 17.95 | 16.65 | 1.30 | 7 | Yes | 100 | 100 | 0 | Yes | 28 | 27 | 4 | Yes | 26 | 25 | 4 | Yes |
| Seventh R3 / W3 | Bedroom | 17.95 | 16.59 | 1.36 | 8 | Yes | 100 | 100 | 0 | Yes | 28 | 27 | 4 | Yes | 26 | 25 | 4 | Yes |
| Seventh R4 / W4 | LKD | 17.72 | 16.35 | 1.37 | 8 | Yes | 99 | 99 | 0 | Yes | 27 | 27 | 0 | Yes | 25 | 25 | 0 | Yes |
| **Nethercott Bank Geoffrey Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 11.91 | 10.21 | 1.70 | 14 | Yes | 98 | 98 | 0 | Yes | 21 | 19 | 10 | Yes | 19 | 17 | 11 | Yes |
| First R2 / W2 | Bedroom | 11.93 | 10.18 | 1.75 | 15 | Yes | 98 | 85 | 13 | Yes | 21 | 18 | 14 | Yes | 19 | 16 | 16 | Yes |
| First R3 / W3 | LKD | 11.57 | 9.93 | 1.64 | 14 | Yes | 97 | 93 | 3 | Yes | 21 | 16 | 24 | No | 19 | 14 | 26 | Yes |
| Second R1 / W1 | LKD | 13.37 | 11.58 | 1.79 | 13 | Yes | 98 | 98 | 0 | Yes | 22 | 21 | 5 | Yes | 20 | 19 | 5 | Yes |
| Second R2 / W2 | Bedroom | 13.21 | 11.37 | 1.84 | 14 | Yes | 99 | 90 | 9 | Yes | 23 | 21 | 9 | Yes | 21 | 19 | 10 | Yes |
| Second R3 / W3 | Bedroom | 13.07 | 11.25 | 1.82 | 14 | Yes | 97 | 88 | 9 | Yes | 23 | 21 | 9 | Yes | 21 | 19 | 10 | Yes |
| Second R4 / W4 | LKD | 12.80 | 11.06 | 1.74 | 14 | Yes | 99 | 98 | 0 | Yes | 22 | 19 | 14 | Yes | 20 | 17 | 15 | Yes |
| Third R1 / W1 | LKD | 14.48 | 12.64 | 1.84 | 13 | Yes | 98 | 98 | 0 | Yes | 25 | 22 | 12 | Yes | 23 | 20 | 13 | Yes |
| Third R2 / W2 | Bedroom | 14.51 | 12.59 | 1.92 | 13 | Yes | 100 | 95 | 5 | Yes | 25 | 22 | 12 | Yes | 23 | 20 | 13 | Yes |
| Third R3 / W3 | Bedroom | 14.36 | 12.44 | 1.92 | 13 | Yes | 100 | 96 | 4 | Yes | 26 | 24 | 8 | Yes | 24 | 22 | 8 | Yes |
| Third R4 / W4 | LKD | 14.07 | 12.22 | 1.85 | 13 | Yes | 99 | 98 | 0 | Yes | 24 | 22 | 8 | Yes | 22 | 20 | 9 | Yes |
| Fourth R1 / W1 | LKD | 16.01 | 14.07 | 1.94 | 12 | Yes | 99 | 99 | 0 | Yes | 26 | 25 | 4 | Yes | 24 | 23 | 4 | Yes |
| Fourth R2 / W2 | Bedroom | 15.83 | 13.82 | 2.01 | 13 | Yes | 100 | 100 | 0 | Yes | 26 | 25 | 4 | Yes | 24 | 23 | 4 | Yes |
| Fourth R3 / W3 | Bedroom | 15.70 | 13.70 | 2.00 | 13 | Yes | 100 | 100 | 0 | Yes | 26 | 25 | 4 | Yes | 24 | 23 | 4 | Yes |
| Fourth R4 / W4 | LKD | 15.43 | 13.49 | 1.94 | 13 | Yes | 99 | 99 | 0 | Yes | 25 | 24 | 4 | Yes | 23 | 22 | 4 | Yes |
| Fifth R1 / W1 | LKD | 17.01 | 14.96 | 2.05 | 12 | Yes | 99 | 99 | 0 | Yes | 28 | 28 | 0 | Yes | 26 | 26 | 0 | Yes |
| Fifth R2 / W2 | Bedroom | 17.12 | 15.01 | 2.11 | 12 | Yes | 100 | 100 | 0 | Yes | 27 | 27 | 0 | Yes | 25 | 25 | 0 | Yes |
| Fifth R3 / W3 | Bedroom | 17.03 | 14.93 | 2.10 | 12 | Yes | 100 | 100 | 0 | Yes | 27 | 27 | 0 | Yes | 25 | 25 | 0 | Yes |
| Fifth R4 / W4 | LKD | 16.84 | 14.80 | 2.04 | 12 | Yes | 99 | 99 | 0 | Yes | 27 | 27 | 0 | Yes | 25 | 25 | 0 | Yes |
| Sixth R1 / W1 | LKD | 11.78 | 10.02 | 1.76 | 15 | Yes | 100 | 100 | 0 | Yes | 16 | 15 | 6 | Yes | 16 | 15 | 6 | Yes |
| Sixth R2 / W2 | LKD | 11.83 | 9.75 | 2.08 | 18 | Yes | 100 | 100 | 0 | Yes | 17 | 16 | 6 | Yes | 17 | 16 | 6 | Yes |
| Seventh R1 / W1 | LKD | 38.77 | 36.84 | 1.93 | 5 | Yes | 100 | 100 | 0 | Yes | 88 | 88 | 0 | Yes | 30 | 30 | 0 | Yes |
| Seventh R2 / W2 | Bedroom | 38.80 | 36.78 | 2.02 | 5 | Yes | 100 | 100 | 0 | Yes | 88 | 88 | 0 | Yes | 30 | 30 | 0 | Yes |
| Seventh R3 / W3 | Bedroom | 38.83 | 36.76 | 2.07 | 5 | Yes | 100 | 100 | 0 | Yes | 88 | 88 | 0 | Yes | 30 | 30 | 0 | Yes |
| Seventh R4 / W4 | LKD | 38.86 | 36.73 | 2.13 | 5 | Yes | 100 | 100 | 0 | Yes | 88 | 88 | 0 | Yes | 30 | 30 | 0 | Yes |
| **Gavin Bank Geoffrey Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 11.21 | 8.14 | 3.07 | 27 | No | 96 | 92 | 4 | Yes | 19 | 13 | 32 | No | 19 | 13 | 32 | Yes |
| First R2 / W2 | Bedroom | 11.31 | 8.07 | 3.24 | 29 | No | 92 | 99 | -7 | Yes | 19 | 13 | 32 | No | 19 | 13 | 32 | Yes |
| First R3 / W3 | Bedroom | 11.44 | 8.08 | 3.36 | 29 | No | 94 | 99 | -5 | Yes | 19 | 15 | 21 | Yes | 19 | 15 | 21 | Yes |

**Daylight and Sunlight Illustrative Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| First R4 / W4 | LKD | 11.67 | 8.11 | 3.56 | 31 | No | 94 | 95 | -1 | Yes | 21 | 15 | 29 | No | 21 | 15 | 29 | Yes |
| Second R1 / W1 | LKD | 12.76 | 9.43 | 3.33 | 26 | No | 99 | 94 | 5 | Yes | 24 | 17 | 29 | No | 24 | 17 | 29 | Yes |
| Second R2 / W2 | Bedroom | 12.99 | 9.53 | 3.46 | 27 | No | 100 | 99 | 1 | Yes | 24 | 16 | 33 | No | 24 | 16 | 33 | Yes |
| Second R3 / W3 | Bedroom | 13.09 | 9.53 | 3.56 | 27 | No | 100 | 100 | 0 | Yes | 23 | 17 | 26 | No | 23 | 17 | 26 | Yes |
| Second R4 / W4 | LKD | 13.03 | 9.39 | 3.64 | 28 | No | 99 | 99 | 0 | Yes | 23 | 15 | 35 | No | 23 | 15 | 35 | Yes |
| Third R1 / W1 | LKD | 14.59 | 11.05 | 3.54 | 24 | No | 99 | 97 | 3 | Yes | 25 | 19 | 24 | No | 25 | 19 | 24 | Yes |
| Third R2 / W2 | Bedroom | 14.65 | 10.99 | 3.66 | 25 | No | 100 | 99 | 0 | Yes | 26 | 18 | 31 | No | 26 | 18 | 31 | Yes |
| Third R3 / W3 | Bedroom | 14.74 | 10.97 | 3.77 | 26 | No | 100 | 100 | 0 | Yes | 26 | 19 | 27 | No | 26 | 19 | 27 | Yes |
| Third R4 / W4 | LKD | 14.94 | 10.97 | 3.97 | 27 | No | 99 | 99 | 0 | Yes | 27 | 20 | 26 | No | 27 | 20 | 26 | Yes |
| Fourth R1 / W1 | LKD | 15.93 | 12.28 | 3.65 | 23 | No | 99 | 98 | 1 | Yes | 27 | 20 | 26 | No | 27 | 20 | 26 | Yes |
| Fourth R2 / W2 | Bedroom | 16.17 | 12.42 | 3.75 | 23 | No | 100 | 100 | 0 | Yes | 27 | 22 | 19 | Yes | 27 | 22 | 19 | Yes |
| Fourth R3 / W3 | Bedroom | 16.24 | 12.40 | 3.84 | 24 | No | 100 | 100 | 0 | Yes | 27 | 22 | 19 | Yes | 27 | 22 | 19 | Yes |
| Fourth R4 / W4 | LKD | 16.12 | 12.23 | 3.89 | 24 | No | 99 | 99 | 0 | Yes | 27 | 20 | 26 | No | 27 | 20 | 26 | Yes |
| Fifth R1 / W1 | LKD | 17.57 | 13.94 | 3.63 | 21 | No | 99 | 99 | 0 | Yes | 27 | 24 | 11 | Yes | 27 | 24 | 11 | Yes |
| Fifth R2 / W2 | Bedroom | 17.59 | 13.85 | 3.74 | 21 | No | 100 | 100 | 0 | Yes | 28 | 24 | 14 | Yes | 28 | 24 | 14 | Yes |
| Fifth R3 / W3 | Bedroom | 17.66 | 13.82 | 3.84 | 22 | No | 100 | 100 | 0 | Yes | 28 | 24 | 14 | Yes | 28 | 24 | 14 | Yes |
| Fifth R4 / W4 | LKD | 17.82 | 13.84 | 3.98 | 22 | No | 99 | 99 | 0 | Yes | 29 | 26 | 10 | Yes | 29 | 26 | 10 | Yes |
| Sixth R1 / W1 | LKD | 18.16 | 14.64 | 3.52 | 19 | Yes | 99 | 99 | 0 | Yes | 28 | 26 | 7 | Yes | 28 | 26 | 7 | Yes |
| Sixth R2 / W2 | Bedroom | 18.38 | 14.75 | 3.63 | 20 | Yes | 100 | 100 | 0 | Yes | 28 | 26 | 7 | Yes | 28 | 26 | 7 | Yes |
| Sixth R3 / W3 | Bedroom | 18.42 | 14.73 | 3.69 | 20 | Yes | 100 | 100 | 0 | Yes | 28 | 26 | 7 | Yes | 28 | 26 | 7 | Yes |
| Sixth R4 / W4 | LKD | 18.26 | 14.55 | 3.71 | 20 | Yes | 99 | 99 | 0 | Yes | 28 | 25 | 11 | Yes | 28 | 25 | 11 | Yes |
| **Block R1** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 5.63 | 5.07 | 0.56 | 10 | Yes | 97 | 97 | 0 | Yes | *North Facing* | | | | | | | |
| First R1 / W2 | | 31.40 | 25.93 | 5.47 | 17 | Yes | | | | | 76 | 65 | 14 | Yes | 23 | 12 | 48 | Yes |
| First R1 / W31 | | 30.97 | 25.40 | 5.57 | 18 | Yes | | | | | 73 | 61 | 16 | Yes | 22 | 10 | 55 | Yes |
| First R1 / W32 | | 24.03 | 19.69 | 4.34 | 18 | Yes | | | | | 53 | 46 | 13 | Yes | 17 | 10 | 41 | Yes |
| First R2 / W3 | Bedroom | 31.87 | 25.71 | 6.16 | 19 | Yes | 90 | 64 | 28 | No | 80 | 70 | 13 | Yes | 22 | 12 | 45 | Yes |
| First R3 / W4 | Bedroom | 31.97 | 25.73 | 6.24 | 20 | Yes | 84 | 62 | 26 | No | 80 | 69 | 14 | Yes | 22 | 11 | 50 | Yes |
| First R4 / W5 | LKD | 11.22 | 5.32 | 5.90 | 53 | No | 93 | 83 | 11 | Yes | 23 | 13 | 43 | No | 21 | 11 | 48 | Yes |
| First R4 / W6 | | 26.07 | 23.26 | 2.81 | 11 | Yes | | | | | 43 | 35 | 19 | Yes | 15 | 7 | 53 | Yes |
| First R5 / W7 | Bedroom | 7.38 | 6.43 | 0.95 | 13 | Yes | 78 | 63 | 20 | Yes | 13 | 11 | 15 | Yes | 5 | 3 | 40 | Yes |
| Second R1 / W1 | LKD | 6.21 | 5.53 | 0.68 | 11 | Yes | 97 | 97 | 0 | Yes | *North Facing* | | | | | | | |
| Second R1 / W2 | | 32.99 | 27.43 | 5.56 | 17 | Yes | | | | | 79 | 70 | 11 | Yes | 26 | 17 | 35 | Yes |
| Second R1 / W30 | | 32.54 | 26.90 | 5.64 | 17 | Yes | | | | | 77 | 68 | 12 | Yes | 26 | 17 | 35 | Yes |
| Second R1 / W31 | | 25.39 | 20.95 | 4.44 | 17 | Yes | | | | | 56 | 50 | 11 | Yes | 20 | 14 | 30 | Yes |
| Second R2 / W3 | Bedroom | 33.46 | 27.23 | 6.23 | 19 | Yes | 96 | 76 | 20 | Yes | 84 | 73 | 13 | Yes | 26 | 15 | 42 | Yes |
| Second R3 / W4 | Bedroom | 33.55 | 27.25 | 6.30 | 19 | Yes | 93 | 74 | 20 | Yes | 85 | 73 | 14 | Yes | 27 | 15 | 44 | Yes |
| Second R4 / W5 | LKD | 12.61 | 6.64 | 5.97 | 47 | No | 96 | 85 | 12 | Yes | 26 | 14 | 46 | No | 24 | 12 | 50 | Yes |
| Second R4 / W6 | | 28.11 | 25.37 | 2.74 | 10 | Yes | | | | | 44 | 37 | 16 | Yes | 15 | 8 | 47 | Yes |
| Second R5 / W7 | Bedroom | 8.14 | 7.18 | 0.96 | 12 | Yes | 79 | 66 | 16 | Yes | 13 | 12 | 8 | Yes | 5 | 4 | 20 | Yes |
| Third R1 / W1 | LKD | 7.51 | 6.73 | 0.78 | 10 | Yes | 97 | 97 | 0 | Yes | *North Facing* | | | | | | | |
| Third R1 / W2 | | 34.50 | 28.96 | 5.54 | 16 | Yes | | | | | 81 | 72 | 11 | Yes | 28 | 19 | 32 | Yes |
| Third R1 / W30 | | 34.03 | 28.42 | 5.61 | 16 | Yes | | | | | 78 | 70 | 10 | Yes | 27 | 19 | 30 | Yes |
| Third R1 / W31 | | 26.67 | 22.23 | 4.44 | 17 | Yes | | | | | 57 | 52 | 9 | Yes | 21 | 16 | 24 | Yes |
| Third R2 / W3 | Bedroom | 34.96 | 28.79 | 6.17 | 18 | Yes | 96 | 81 | 15 | Yes | 85 | 77 | 9 | Yes | 27 | 19 | 30 | Yes |
| Third R3 / W4 | Bedroom | 35.04 | 28.79 | 6.25 | 18 | Yes | 96 | 81 | 15 | Yes | 85 | 78 | 8 | Yes | 27 | 20 | 26 | Yes |
| Third R4 / W5 | LKD | 13.89 | 8.00 | 5.89 | 42 | No | 100 | 92 | 8 | Yes | 26 | 18 | 31 | No | 24 | 16 | 33 | Yes |
| Third R4 / W6 | | 30.26 | 27.66 | 2.60 | 9 | Yes | | | | | 45 | 40 | 11 | Yes | 15 | 10 | 33 | Yes |
| Third R5 / W7 | Bedroom | 9.15 | 8.20 | 0.95 | 10 | Yes | 79 | 70 | 12 | Yes | 14 | 13 | 7 | Yes | 5 | 4 | 20 | Yes |

**Daylight and Sunlight Illustrative Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Fourth R1 / W1 | LKD | 10.13 | 9.33 | 0.80 | 8 | Yes | 98 | 98 | 0 | Yes | *North Facing* | | | | | | | |
| Fourth R1 / W2 | | 35.90 | 30.51 | 5.39 | 15 | Yes | | | | | 81 | 74 | 9 | Yes | 28 | 21 | 25 | Yes |
| Fourth R1 / W30 | | 35.42 | 29.96 | 5.46 | 15 | Yes | | | | | 79 | 71 | 10 | Yes | 28 | 20 | 29 | Yes |
| Fourth R1 / W31 | | 27.89 | 23.54 | 4.35 | 16 | Yes | | | | | 58 | 52 | 10 | Yes | 22 | 16 | 27 | Yes |
| Fourth R2 / W3 | Bedroom | 36.32 | 30.36 | 5.96 | 16 | Yes | 96 | 83 | 13 | Yes | 86 | 77 | 10 | Yes | 28 | 19 | 32 | Yes |
| Fourth R3 / W4 | Bedroom | 36.38 | 30.36 | 6.02 | 17 | Yes | 96 | 84 | 12 | Yes | 86 | 78 | 9 | Yes | 28 | 20 | 29 | Yes |
| Fourth R4 / W5 | LKD | 15.06 | 9.37 | 5.69 | 38 | No | 100 | 100 | 0 | Yes | 27 | 19 | 30 | No | 25 | 17 | 32 | Yes |
| Fourth R4 / W6 | | 32.49 | 30.08 | 2.41 | 7 | Yes | | | | | 47 | 43 | 9 | Yes | 15 | 11 | 27 | Yes |
| Fourth R5 / W7 | Bedroom | 10.63 | 9.69 | 0.94 | 9 | Yes | 81 | 73 | 9 | Yes | 14 | 13 | 7 | Yes | 5 | 4 | 20 | Yes |
| Fifth R1 / W1 | LKD | 12.94 | 12.14 | 0.80 | 6 | Yes | 98 | 98 | 0 | Yes | *North Facing* | | | | | | | |
| Fifth R1 / W2 | | 37.19 | 32.04 | 5.15 | 14 | Yes | | | | | 81 | 76 | 6 | Yes | 28 | 23 | 18 | Yes |
| Fifth R1 / W30 | | 36.69 | 31.48 | 5.21 | 14 | Yes | | | | | 79 | 73 | 8 | Yes | 28 | 22 | 21 | Yes |
| Fifth R1 / W31 | | 29.01 | 24.82 | 4.19 | 14 | Yes | | | | | 58 | 54 | 7 | Yes | 22 | 18 | 18 | Yes |
| Fifth R2 / W3 | Bedroom | 37.57 | 31.91 | 5.66 | 15 | Yes | 96 | 85 | 12 | Yes | 87 | 81 | 7 | Yes | 29 | 23 | 21 | Yes |
| Fifth R3 / W4 | Bedroom | 37.60 | 31.90 | 5.70 | 15 | Yes | 96 | 87 | 9 | Yes | 87 | 81 | 7 | Yes | 29 | 23 | 21 | Yes |
| Fifth R4 / W5 | LKD | 16.09 | 10.73 | 5.36 | 33 | No | 100 | 100 | 0 | Yes | 28 | 22 | 21 | No | 26 | 20 | 23 | Yes |
| Fifth R4 / W6 | | 34.68 | 32.53 | 2.15 | 6 | Yes | | | | | 49 | 46 | 6 | Yes | 15 | 12 | 20 | Yes |
| Fifth R5 / W7 | Bedroom | 13.15 | 12.23 | 0.92 | 7 | Yes | 84 | 80 | 5 | Yes | 22 | 22 | 0 | Yes | 7 | 7 | 0 | Yes |
| Sixth R1 / W1 | LKD | 15.57 | 14.76 | 0.81 | 5 | Yes | 100 | 100 | 0 | Yes | *North Facing* | | | | | | | |
| Sixth R1 / W2 | | 38.28 | 33.51 | 4.77 | 12 | Yes | | | | | 82 | 77 | 6 | Yes | 29 | 24 | 17 | Yes |
| Sixth R1 / W30 | | 37.77 | 32.98 | 4.79 | 13 | Yes | | | | | 80 | 75 | 6 | Yes | 29 | 24 | 17 | Yes |
| Sixth R1 / W31 | | 29.92 | 26.06 | 3.86 | 13 | Yes | | | | | 60 | 56 | 7 | Yes | 24 | 20 | 17 | Yes |
| Sixth R2 / W3 | Bedroom | 38.55 | 33.40 | 5.15 | 13 | Yes | 96 | 86 | 10 | Yes | 88 | 82 | 7 | Yes | 30 | 24 | 20 | Yes |
| Sixth R3 / W4 | Bedroom | 38.57 | 33.39 | 5.18 | 13 | Yes | 96 | 90 | 6 | Yes | 88 | 82 | 7 | Yes | 30 | 24 | 20 | Yes |
| Sixth R4 / W5 | LKD | 16.89 | 12.05 | 4.84 | 29 | No | 100 | 100 | 0 | Yes | 28 | 23 | 18 | Yes | 26 | 21 | 19 | Yes |
| Sixth R4 / W6 | | 36.56 | 34.67 | 1.89 | 5 | Yes | | | | | 50 | 48 | 4 | Yes | 15 | 13 | 13 | Yes |
| Sixth R5 / W7 | Bedroom | 18.80 | 17.96 | 0.84 | 4 | Yes | 93 | 93 | 0 | Yes | 32 | 32 | 0 | Yes | 10 | 10 | 0 | Yes |
| Seventh R1 / W1 | LKD | 17.13 | 16.40 | 0.73 | 4 | Yes | 100 | 100 | 0 | Yes | *North Facing* | | | | | | | |
| Seventh R1 / W2 | | 38.97 | 34.93 | 4.04 | 10 | Yes | | | | | 87 | 83 | 5 | Yes | 30 | 26 | 13 | Yes |
| Seventh R1 / W33 | | 38.59 | 34.54 | 4.05 | 10 | Yes | | | | | 82 | 77 | 6 | Yes | 30 | 25 | 17 | Yes |
| Seventh R1 / W34 | | 30.65 | 27.40 | 3.25 | 11 | Yes | | | | | 60 | 56 | 7 | Yes | 24 | 20 | 17 | Yes |
| Seventh R2 / W3 | Bedroom | 39.09 | 34.78 | 4.31 | 11 | Yes | 96 | 90 | 7 | Yes | 88 | 83 | 6 | Yes | 30 | 25 | 17 | Yes |
| Seventh R3 / W4 | Bedroom | 39.10 | 34.77 | 4.33 | 11 | Yes | 96 | 93 | 4 | Yes | 88 | 83 | 6 | Yes | 30 | 25 | 17 | Yes |
| Seventh R4 / W5 | LKD | 17.26 | 13.26 | 4.00 | 23 | No | 100 | 100 | 0 | Yes | 28 | 23 | 18 | Yes | 26 | 21 | 19 | Yes |
| Seventh R4 / W6 | | 38.06 | 36.44 | 1.62 | 4 | Yes | | | | | 51 | 50 | 2 | Yes | 15 | 14 | 7 | Yes |
| Eighth R1 / W1 | Bedroom | 35.84 | 34.40 | 1.44 | 4 | Yes | 99 | 99 | 0 | Yes | 81 | 81 | 0 | Yes | 26 | 26 | 0 | Yes |
| **Block R2** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 9.92 | 6.98 | 2.94 | 30 | No | 97 | 93 | 5 | Yes | 16 | 12 | 25 | Yes | 16 | 12 | 25 | Yes |
| First R1 / W30 | | 1.69 | 1.64 | 0.05 | 3 | Yes | | | | | *North Facing* | | | | | | | |
| First R2 / W2 | Bedroom | 24.23 | 21.12 | 3.11 | 13 | Yes | 97 | 93 | 4 | Yes | 50 | 44 | 12 | Yes | 19 | 13 | 32 | Yes |
| First R3 / W3 | Bedroom | 25.09 | 21.95 | 3.14 | 13 | Yes | 94 | 83 | 12 | Yes | 48 | 41 | 15 | Yes | 18 | 11 | 39 | Yes |
| First R4 / W4 | Bedroom | 25.46 | 22.47 | 2.99 | 12 | Yes | 90 | 81 | 10 | Yes | 48 | 41 | 15 | Yes | 18 | 11 | 39 | Yes |
| First R5 / W5 | Bedroom | 24.80 | 22.15 | 2.65 | 11 | Yes | 89 | 80 | 11 | Yes | 49 | 43 | 12 | Yes | 18 | 12 | 33 | Yes |
| First R6 / W6 | LKD | 10.28 | 8.04 | 2.24 | 22 | No | 100 | 98 | 2 | Yes | 16 | 11 | 31 | No | 16 | 11 | 31 | Yes |
| First R6 / W7 | | 4.80 | 4.68 | 0.12 | 3 | Yes | | | | | 11 | 10 | 9 | Yes | 4 | 3 | 25 | Yes |
| Second R1 / W1 | LKD | 10.48 | 7.60 | 2.88 | 27 | No | 100 | 96 | 3 | Yes | 16 | 13 | 19 | Yes | 16 | 13 | 19 | Yes |
| Second R1 / W30 | | 2.16 | 2.11 | 0.05 | 2 | Yes | | | | | *North Facing* | | | | | | | |
| Second R2 / W2 | Bedroom | 25.81 | 22.75 | 3.06 | 12 | Yes | 88 | 86 | 3 | Yes | 53 | 48 | 9 | Yes | 19 | 14 | 26 | Yes |
| Second R3 / W3 | Bedroom | 26.75 | 23.65 | 3.10 | 12 | Yes | 81 | 77 | 5 | Yes | 52 | 47 | 10 | Yes | 18 | 13 | 28 | Yes |
| Second R4 / W4 | Bedroom | 27.17 | 24.20 | 2.97 | 11 | Yes | 92 | 85 | 8 | Yes | 52 | 46 | 12 | Yes | 19 | 13 | 32 | Yes |
| Second R5 / W5 | Bedroom | 26.50 | 23.85 | 2.65 | 10 | Yes | 90 | 83 | 8 | Yes | 52 | 48 | 8 | Yes | 20 | 16 | 20 | Yes |

**Daylight and Sunlight Illustrative Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Second R6 / W6 | LKD | 10.97 | 8.72 | 2.25 | 21 | No | 100 | 99 | 1 | Yes | 17 | 13 | 24 | Yes | 17 | 13 | 24 | Yes |
| Second R6 / W7 | | 6.09 | 5.99 | 0.10 | 2 | Yes | | | | | 12 | 11 | 8 | Yes | 4 | 3 | 25 | Yes |
| Third R1 / W1 | LKD | 11.06 | 8.31 | 2.75 | 25 | No | 100 | 100 | 0 | Yes | 16 | 15 | 6 | Yes | 16 | 15 | 6 | Yes |
| Third R1 / W30 | | 2.87 | 2.82 | 0.05 | 2 | Yes | | | | | *North Facing* | | | | | | | |
| Third R2 / W2 | Bedroom | 27.54 | 24.59 | 2.95 | 11 | Yes | 89 | 87 | 2 | Yes | 58 | 55 | 5 | Yes | 19 | 16 | 16 | Yes |
| Third R3 / W3 | Bedroom | 28.55 | 25.55 | 3.00 | 11 | Yes | 82 | 79 | 4 | Yes | 57 | 54 | 5 | Yes | 18 | 15 | 17 | Yes |
| Third R4 / W4 | Bedroom | 29.03 | 26.14 | 2.89 | 10 | Yes | 93 | 89 | 5 | Yes | 59 | 55 | 7 | Yes | 19 | 15 | 21 | Yes |
| Third R5 / W5 | Bedroom | 28.39 | 25.78 | 2.61 | 9 | Yes | 91 | 86 | 5 | Yes | 57 | 53 | 7 | Yes | 20 | 16 | 20 | Yes |
| Third R6 / W6 | LKD | 11.72 | 9.48 | 2.24 | 19 | Yes | 100 | 100 | 0 | Yes | 18 | 14 | 22 | Yes | 18 | 14 | 22 | Yes |
| Third R6 / W7 | | 7.98 | 7.88 | 0.10 | 1 | Yes | | | | | 16 | 16 | 0 | Yes | 5 | 5 | 0 | Yes |
| Fourth R1 / W1 | LKD | 11.82 | 9.22 | 2.60 | 22 | No | 100 | 100 | 0 | Yes | 17 | 16 | 6 | Yes | 17 | 16 | 6 | Yes |
| Fourth R1 / W32 | | 3.98 | 3.94 | 0.04 | 1 | Yes | | | | | *North Facing* | | | | | | | |
| Fourth R2 / W2 | Bedroom | 29.47 | 26.66 | 2.81 | 10 | Yes | 91 | 89 | 2 | Yes | 62 | 60 | 3 | Yes | 20 | 18 | 10 | Yes |
| Fourth R3 / W3 | Bedroom | 30.51 | 27.64 | 2.87 | 9 | Yes | 83 | 82 | 2 | Yes | 64 | 62 | 3 | Yes | 20 | 18 | 10 | Yes |
| Fourth R4 / W4 | Bedroom | 31.03 | 28.24 | 2.79 | 9 | Yes | 95 | 93 | 2 | Yes | 65 | 62 | 5 | Yes | 20 | 17 | 15 | Yes |
| Fourth R5 / W5 | Bedroom | 30.43 | 27.89 | 2.54 | 8 | Yes | 93 | 91 | 2 | Yes | 62 | 59 | 5 | Yes | 20 | 17 | 15 | Yes |
| Fourth R6 / W6 | LKD | 12.57 | 10.41 | 2.16 | 17 | Yes | 100 | 100 | 0 | Yes | 21 | 17 | 19 | Yes | 21 | 17 | 19 | Yes |
| Fourth R6 / W7 | | 10.83 | 10.74 | 0.09 | 1 | Yes | | | | | 18 | 18 | 0 | Yes | 5 | 5 | 0 | Yes |
| Fifth R1 / W1 | LKD | 12.82 | 10.39 | 2.43 | 19 | Yes | 100 | 100 | 0 | Yes | 18 | 17 | 6 | Yes | 18 | 17 | 6 | Yes |
| Fifth R1 / W30 | | 5.82 | 5.77 | 0.05 | 1 | Yes | | | | | *North Facing* | | | | | | | |
| Fifth R2 / W2 | Bedroom | 31.49 | 28.86 | 2.63 | 8 | Yes | 94 | 92 | 2 | Yes | 66 | 64 | 3 | Yes | 20 | 18 | 10 | Yes |
| Fifth R3 / W3 | Bedroom | 32.49 | 29.80 | 2.69 | 8 | Yes | 87 | 86 | 2 | Yes | 69 | 67 | 3 | Yes | 21 | 19 | 10 | Yes |
| Fifth R4 / W4 | Bedroom | 33.02 | 30.38 | 2.64 | 8 | Yes | 96 | 94 | 2 | Yes | 71 | 68 | 4 | Yes | 23 | 20 | 13 | Yes |
| Fifth R5 / W5 | Bedroom | 32.54 | 30.14 | 2.40 | 7 | Yes | 96 | 95 | 2 | Yes | 70 | 68 | 3 | Yes | 21 | 19 | 10 | Yes |
| Fifth R6 / W6 | LKD | 13.61 | 11.58 | 2.03 | 15 | Yes | 100 | 100 | 0 | Yes | 21 | 19 | 10 | Yes | 21 | 19 | 10 | Yes |
| Fifth R6 / W7 | | 15.21 | 15.13 | 0.08 | 1 | Yes | | | | | 22 | 22 | 0 | Yes | 7 | 7 | 0 | Yes |
| Sixth R1 / W1 | LKD | 9.61 | 7.45 | 2.16 | 22 | No | 100 | 100 | 0 | Yes | 11 | 11 | 0 | Yes | 11 | 11 | 0 | Yes |
| Sixth R1 / W30 | | 9.03 | 8.99 | 0.04 | 0 | Yes | | | | | *North Facing* | | | | | | | |
| Sixth R2 / W2 | Bedroom | 29.94 | 27.59 | 2.35 | 8 | Yes | 96 | 95 | 1 | Yes | 67 | 66 | 1 | Yes | 23 | 22 | 4 | Yes |
| Sixth R3 / W3 | Bedroom | 30.77 | 28.33 | 2.44 | 8 | Yes | 92 | 91 | 1 | Yes | 69 | 69 | 0 | Yes | 24 | 24 | 0 | Yes |
| Sixth R4 / W4 | Bedroom | 31.23 | 28.81 | 2.42 | 8 | Yes | 96 | 96 | 1 | Yes | 69 | 68 | 1 | Yes | 24 | 23 | 4 | Yes |
| Sixth R5 / W5 | Bedroom | 30.94 | 28.73 | 2.21 | 7 | Yes | 97 | 96 | 0 | Yes | 70 | 70 | 0 | Yes | 24 | 24 | 0 | Yes |
| Sixth R6 / W6 | LKD | 10.19 | 8.34 | 1.85 | 18 | Yes | 100 | 100 | 0 | Yes | 13 | 12 | 8 | Yes | 13 | 12 | 8 | Yes |
| Sixth R6 / W7 | | 21.81 | 21.75 | 0.06 | 0 | Yes | | | | | 30 | 30 | 0 | Yes | 8 | 8 | 0 | Yes |
| **Richard Hawthorn** | | | | | | | | | | | | | | | | | | |
| First R1 / W3 | LKD | 33.75 | 26.25 | 7.50 | 22 | No | 100 | 100 | 0 | Yes | 85 | 71 | 16 | Yes | 27 | 13 | 52 | Yes |
| First R1 / W2 | | 33.66 | 26.34 | 7.32 | 22 | No | | | | | 85 | 74 | 13 | Yes | 27 | 16 | 41 | Yes |
| First R1 / W1 | | 9.29 | 8.06 | 1.23 | 13 | Yes | | | | | *North Facing* | | | | | | | |
| First R2 / W6 | LKD | 14.09 | 10.25 | 3.84 | 27 | No | 98 | 98 | 0 | Yes | 23 | 16 | 30 | No | 11 | 4 | 64 | No |
| First R2 / W5 | | 34.11 | 25.93 | 8.18 | 24 | No | | | | | 84 | 68 | 19 | Yes | 26 | 10 | 62 | Yes |
| First R2 / W4 | | 34.01 | 25.98 | 8.03 | 24 | No | | | | | 84 | 70 | 17 | Yes | 26 | 12 | 54 | Yes |
| First R3 / W7 | LKD | 8.25 | 7.36 | 0.89 | 11 | Yes | 72 | 52 | 28 | No | 13 | 12 | 8 | Yes | 5 | 4 | 20 | Yes |
| First R3 / W8 | | 10.99 | 10.99 | 0.00 | 0 | Yes | | | | | *North Facing* | | | | | | | |
| Second R1 / W3 | LKD | 35.25 | 27.72 | 7.53 | 21 | Yes | 100 | 100 | 0 | Yes | 85 | 75 | 12 | Yes | 27 | 17 | 37 | Yes |
| Second R1 / W2 | | 35.17 | 27.79 | 7.38 | 21 | Yes | | | | | 85 | 77 | 9 | Yes | 27 | 19 | 30 | Yes |
| Second R1 / W1 | | 10.82 | 9.42 | 1.40 | 13 | Yes | | | | | *North Facing* | | | | | | | |
| Second R2 / W6 | LKD | 15.51 | 11.75 | 3.76 | 24 | No | 98 | 98 | 0 | Yes | 24 | 18 | 25 | No | 11 | 5 | 55 | Yes |
| Second R2 / W5 | | 35.55 | 27.45 | 8.10 | 23 | Yes | | | | | 85 | 70 | 18 | Yes | 27 | 12 | 56 | Yes |
| Second R2 / W4 | | 35.47 | 27.48 | 7.99 | 23 | Yes | | | | | 85 | 72 | 15 | Yes | 27 | 14 | 48 | Yes |
| Second R3 / W7 | LKD | 9.22 | 8.38 | 0.84 | 9 | Yes | 88 | 63 | 29 | No | 14 | 14 | 0 | Yes | 5 | 5 | 0 | Yes |
| Second R3 / W8 | | 13.19 | 13.19 | 0.00 | 0 | Yes | | | | | *North Facing* | | | | | | | |

**Daylight and Sunlight Illustrative Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Third R1 / W3 | LKD | 36.53 | 29.21 | 7.32 | 20 | Yes | 100 | 100 | 0 | Yes | 87 | 76 | 13 | Yes | 29 | 18 | 38 | Yes |
| Third R1 / W2 | | 36.47 | 29.27 | 7.20 | 20 | Yes | | | | | 87 | 77 | 11 | Yes | 29 | 19 | 34 | Yes |
| Third R1 / W1 | | 12.41 | 10.88 | 1.53 | 12 | Yes | | | | | *North Facing* | | | | | | | |
| Third R2 / W6 | LKD | 16.82 | 13.25 | 3.57 | 21 | No | 98 | 98 | 0 | Yes | 26 | 21 | 19 | Yes | 11 | 6 | 45 | Yes |
| Third R2 / W5 | | 36.80 | 29.00 | 7.80 | 21 | Yes | | | | | 87 | 74 | 15 | Yes | 29 | 16 | 45 | Yes |
| Third R2 / W4 | | 36.72 | 29.02 | 7.70 | 21 | Yes | | | | | 87 | 75 | 14 | Yes | 29 | 17 | 41 | Yes |
| Third R3 / W7 | LKD | 10.72 | 9.95 | 0.77 | 7 | Yes | 90 | 79 | 12 | Yes | 14 | 14 | 0 | Yes | 5 | 5 | 0 | Yes |
| Third R3 / W8 | | 16.07 | 16.07 | 0.00 | 0 | Yes | | | | | *North Facing* | | | | | | | |
| Fourth R1 / W3 | LKD | 37.64 | 30.73 | 6.91 | 18 | Yes | 100 | 100 | 0 | Yes | 88 | 77 | 13 | Yes | 30 | 19 | 37 | Yes |
| Fourth R1 / W2 | | 37.59 | 30.77 | 6.82 | 18 | Yes | | | | | 88 | 78 | 11 | Yes | 30 | 20 | 33 | Yes |
| Fourth R1 / W1 | | 13.96 | 12.38 | 1.58 | 11 | Yes | | | | | *North Facing* | | | | | | | |
| Fourth R2 / W6 | LKD | 18.03 | 14.77 | 3.26 | 18 | Yes | 99 | 99 | 0 | Yes | 27 | 23 | 15 | Yes | 11 | 7 | 36 | Yes |
| Fourth R2 / W5 | | 37.83 | 30.56 | 7.27 | 19 | Yes | | | | | 88 | 75 | 15 | Yes | 30 | 17 | 43 | Yes |
| Fourth R2 / W4 | | 37.77 | 30.57 | 7.20 | 19 | Yes | | | | | 88 | 76 | 14 | Yes | 30 | 18 | 40 | Yes |
| Fourth R3 / W7 | LKD | 13.56 | 12.87 | 0.69 | 5 | Yes | 92 | 85 | 7 | Yes | 23 | 23 | 0 | Yes | 7 | 7 | 0 | Yes |
| Fourth R3 / W8 | | 19.80 | 19.80 | 0.00 | 0 | Yes | | | | | *North Facing* | | | | | | | |
| Fifth R1 / W3 | LKD | 38.51 | 32.23 | 6.28 | 16 | Yes | 100 | 100 | 0 | Yes | 88 | 79 | 10 | Yes | 30 | 21 | 30 | Yes |
| Fifth R1 / W2 | | 38.48 | 32.26 | 6.22 | 16 | Yes | | | | | 88 | 80 | 9 | Yes | 30 | 22 | 27 | Yes |
| Fifth R1 / W1 | | 15.42 | 13.92 | 1.50 | 10 | Yes | | | | | *North Facing* | | | | | | | |
| Fifth R2 / W6 | LKD | 19.06 | 16.26 | 2.80 | 15 | Yes | 100 | 100 | 0 | Yes | 28 | 25 | 11 | Yes | 11 | 8 | 27 | Yes |
| Fifth R2 / W5 | | 38.62 | 32.12 | 6.50 | 17 | Yes | | | | | 88 | 78 | 11 | Yes | 30 | 20 | 33 | Yes |
| Fifth R2 / W4 | | 38.59 | 32.11 | 6.48 | 17 | Yes | | | | | 88 | 78 | 11 | Yes | 30 | 20 | 33 | Yes |
| Fifth R3 / W7 | LKD | 21.19 | 20.57 | 0.62 | 3 | Yes | 95 | 92 | 4 | Yes | 40 | 40 | 0 | Yes | 12 | 12 | 0 | Yes |
| Fifth R3 / W8 | | 24.44 | 24.44 | 0.00 | 0 | Yes | | | | | *North Facing* | | | | | | | |
| Sixth R1 / W3 | LKD | 38.99 | 33.68 | 5.31 | 14 | Yes | 100 | 100 | 0 | Yes | 88 | 81 | 8 | Yes | 30 | 23 | 23 | Yes |
| Sixth R1 / W2 | | 38.99 | 33.70 | 5.29 | 14 | Yes | | | | | 88 | 81 | 8 | Yes | 30 | 23 | 23 | Yes |
| Sixth R1 / W1 | | 16.76 | 15.41 | 1.35 | 8 | Yes | | | | | *North Facing* | | | | | | | |
| Sixth R2 / W6 | LKD | 19.86 | 17.54 | 2.32 | 12 | Yes | 100 | 100 | 0 | Yes | 28 | 25 | 11 | Yes | 11 | 8 | 27 | Yes |
| Sixth R2 / W5 | | 39.01 | 33.63 | 5.38 | 14 | Yes | | | | | 88 | 80 | 9 | Yes | 30 | 22 | 27 | Yes |
| Sixth R2 / W4 | | 39.00 | 33.61 | 5.39 | 14 | Yes | | | | | 88 | 80 | 9 | Yes | 30 | 22 | 27 | Yes |
| Seventh R1 / W3 | LKD | 39.17 | 35.03 | 4.14 | 11 | Yes | 100 | 100 | 0 | Yes | 88 | 86 | 2 | Yes | 30 | 28 | 7 | Yes |
| Seventh R1 / W2 | | 39.17 | 35.05 | 4.12 | 11 | Yes | | | | | 88 | 86 | 2 | Yes | 30 | 28 | 7 | Yes |
| Seventh R1 / W1 | | 35.19 | 34.11 | 1.08 | 3 | Yes | | | | | *North Facing* | | | | | | | |
| Seventh R2 / W6 | LKD | 36.53 | 34.66 | 1.87 | 5 | Yes | 100 | 100 | 0 | Yes | 52 | 49 | 6 | Yes | 15 | 12 | 20 | Yes |
| Seventh R2 / W5 | | 39.18 | 35.01 | 4.17 | 11 | Yes | | | | | 88 | 83 | 6 | Yes | 30 | 25 | 17 | Yes |
| Seventh R2 / W4 | | 39.17 | 34.99 | 4.18 | 11 | Yes | | | | | 88 | 83 | 6 | Yes | 30 | 25 | 17 | Yes |
| Seventh R3 / W7 | LKD | 37.07 | 35.53 | 1.54 | 4 | Yes | 100 | 100 | 0 | Yes | 85 | 85 | 0 | Yes | 27 | 27 | 0 | Yes |
| Seventh R3 / W8 | | 34.67 | 34.67 | 0.00 | 0 | Yes | | | | | *North Facing* | | | | | | | |
| **Solace Geoffrey Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W2 | LKD | 12.71 | 9.26 | 3.45 | 27 | No | 100 | 84 | 16 | Yes | 22 | 18 | 18 | Yes | 17 | 13 | 24 | Yes |
| First R1 / W1 | | 2.25 | 2.18 | 0.07 | 3 | Yes | | | | | *North Facing* | | | | | | | |
| First R2 / W3 | Bedroom | 26.43 | 22.86 | 3.57 | 14 | Yes | 98 | 93 | 6 | Yes | 55 | 49 | 11 | Yes | 19 | 13 | 32 | Yes |
| First R3 / W4 | Bedroom | 27.20 | 23.77 | 3.43 | 13 | Yes | 96 | 91 | 5 | Yes | 55 | 50 | 9 | Yes | 18 | 13 | 28 | Yes |
| First R4 / W5 | Bedroom | 27.55 | 24.17 | 3.38 | 12 | Yes | 94 | 87 | 7 | Yes | 56 | 51 | 9 | Yes | 19 | 14 | 26 | Yes |
| First R5 / W6 | Bedroom | 26.91 | 23.72 | 3.19 | 12 | Yes | 92 | 82 | 12 | Yes | 56 | 49 | 13 | Yes | 20 | 13 | 35 | Yes |
| First R6 / W7 | LKD | 12.05 | 9.43 | 2.62 | 22 | No | 100 | 98 | 2 | Yes | 22 | 18 | 18 | Yes | 17 | 13 | 24 | Yes |
| First R6 / W8 | | 15.36 | 15.35 | 0.01 | 0 | Yes | | | | | 16 | 16 | 0 | Yes | 3 | 3 | 0 | Yes |
| Second R1 / W2 | LKD | 13.27 | 9.94 | 3.33 | 25 | No | 100 | 94 | 5 | Yes | 23 | 22 | 4 | Yes | 17 | 16 | 6 | Yes |
| Second R1 / W1 | | 3.00 | 2.93 | 0.07 | 2 | Yes | | | | | *North Facing* | | | | | | | |
| Second R2 / W3 | Bedroom | 28.17 | 24.76 | 3.41 | 12 | Yes | 93 | 88 | 6 | Yes | 60 | 57 | 5 | Yes | 20 | 17 | 15 | Yes |
| Second R3 / W4 | Bedroom | 29.28 | 26.02 | 3.26 | 11 | Yes | 94 | 90 | 4 | Yes | 61 | 58 | 5 | Yes | 20 | 17 | 15 | Yes |
| Second R4 / W5 | Bedroom | 29.58 | 26.38 | 3.20 | 11 | Yes | 95 | 92 | 3 | Yes | 62 | 59 | 5 | Yes | 19 | 16 | 16 | Yes |

**Daylight and Sunlight Illustrative Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Second R5 / W6 | Bedroom | 29.11 | 26.08 | 3.03 | 10 | Yes | 96 | 88 | 8 | Yes | 62 | 57 | 8 | Yes | 20 | 15 | 25 | Yes |
| Second R6 / W7 | LKD | 11.65 | 9.15 | 2.50 | 21 | No | 100 | 99 | 1 | Yes | 20 | 15 | 25 | No | 20 | 15 | 25 | Yes |
| Second R6 / W8 | | 18.88 | 18.88 | 0.00 | 0 | Yes | | | | | 24 | 24 | 0 | Yes | 5 | 5 | 0 | Yes |
| Third R1 / W2 | LKD | 14.02 | 10.88 | 3.14 | 22 | No | 100 | 100 | 0 | Yes | 25 | 25 | 0 | Yes | 19 | 19 | 0 | Yes |
| Third R1 / W1 | | 4.22 | 4.15 | 0.07 | 2 | Yes | | | | | *North Facing* | | | | | | | |
| Third R2 / W3 | Bedroom | 30.02 | 26.69 | 3.33 | 11 | Yes | 94 | 90 | 4 | Yes | 63 | 62 | 2 | Yes | 20 | 19 | 5 | Yes |
| Third R3 / W4 | Bedroom | 31.24 | 28.01 | 3.23 | 10 | Yes | 95 | 93 | 2 | Yes | 67 | 64 | 4 | Yes | 21 | 18 | 14 | Yes |
| Third R4 / W5 | Bedroom | 31.68 | 28.61 | 3.07 | 10 | Yes | 96 | 94 | 2 | Yes | 69 | 67 | 3 | Yes | 22 | 20 | 9 | Yes |
| Third R5 / W6 | Bedroom | 31.41 | 28.53 | 2.88 | 9 | Yes | 97 | 92 | 5 | Yes | 67 | 63 | 6 | Yes | 21 | 17 | 19 | Yes |
| Third R6 / W7 | LKD | 13.16 | 10.77 | 2.39 | 18 | Yes | 100 | 100 | 0 | Yes | 21 | 16 | 24 | No | 21 | 16 | 24 | Yes |
| Third R6 / W8 | | 23.25 | 23.22 | 0.03 | 0 | Yes | | | | | 29 | 28 | 3 | Yes | 8 | 7 | 13 | Yes |
| Fourth R1 / W2 | LKD | 14.93 | 12.06 | 2.87 | 19 | Yes | 100 | 100 | 0 | Yes | 25 | 25 | 0 | Yes | 19 | 19 | 0 | Yes |
| Fourth R1 / W1 | | 6.36 | 6.29 | 0.07 | 1 | Yes | | | | | *North Facing* | | | | | | | |
| Fourth R2 / W3 | Bedroom | 31.91 | 28.73 | 3.18 | 10 | Yes | 96 | 93 | 3 | Yes | 68 | 67 | 1 | Yes | 20 | 19 | 5 | Yes |
| Fourth R3 / W4 | Bedroom | 33.15 | 29.96 | 3.19 | 10 | Yes | 96 | 94 | 2 | Yes | 70 | 69 | 1 | Yes | 21 | 20 | 5 | Yes |
| Fourth R4 / W5 | Bedroom | 33.69 | 30.56 | 3.13 | 9 | Yes | 97 | 95 | 2 | Yes | 74 | 73 | 1 | Yes | 24 | 23 | 4 | Yes |
| Fourth R5 / W6 | Bedroom | 33.68 | 30.65 | 3.03 | 9 | Yes | 97 | 94 | 4 | Yes | 74 | 71 | 4 | Yes | 24 | 21 | 13 | Yes |
| Fourth R6 / W7 | LKD | 14.71 | 12.09 | 2.62 | 18 | Yes | 100 | 100 | 0 | Yes | 22 | 18 | 18 | Yes | 22 | 18 | 18 | Yes |
| Fourth R6 / W8 | | 28.35 | 28.20 | 0.15 | 1 | Yes | | | | | 39 | 39 | 0 | Yes | 10 | 10 | 0 | Yes |
| Fifth R1 / W2 | LKD | 10.09 | 7.55 | 2.54 | 25 | No | 100 | 100 | 0 | Yes | 14 | 14 | 0 | Yes | 14 | 14 | 0 | Yes |
| Fifth R1 / W1 | | 10.33 | 10.26 | 0.07 | 1 | Yes | | | | | *North Facing* | | | | | | | |
| Fifth R2 / W3 | Bedroom | 29.43 | 26.54 | 2.89 | 10 | Yes | 97 | 95 | 2 | Yes | 65 | 65 | 0 | Yes | 22 | 22 | 0 | Yes |
| Fifth R3 / W4 | Bedroom | 30.47 | 27.49 | 2.98 | 10 | Yes | 96 | 95 | 2 | Yes | 70 | 70 | 0 | Yes | 25 | 25 | 0 | Yes |
| Fifth R4 / W5 | Bedroom | 30.98 | 27.94 | 3.04 | 10 | Yes | 97 | 95 | 2 | Yes | 70 | 70 | 0 | Yes | 25 | 25 | 0 | Yes |
| Fifth R5 / W6 | Bedroom | 31.13 | 28.07 | 3.06 | 10 | Yes | 97 | 94 | 3 | Yes | 71 | 70 | 1 | Yes | 25 | 24 | 4 | Yes |
| Fifth R6 / W7 | LKD | 11.67 | 8.91 | 2.76 | 24 | No | 100 | 100 | 0 | Yes | 17 | 15 | 12 | Yes | 17 | 15 | 12 | Yes |
| Fifth R6 / W8 | | 33.58 | 33.36 | 0.22 | 1 | Yes | | | | | 45 | 45 | 0 | Yes | 12 | 12 | 0 | Yes |
| **Patricia Hollis House Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 26.00 | 23.83 | 2.17 | 8 | Yes | 99 | 97 | 2 | Yes | *North Facing* | | | | | | | |
| First R1 / W2 | | 15.41 | 7.61 | 7.80 | 51 | No | | | | | 24 | 13 | 46 | No | 23 | 12 | 48 | Yes |
| First R2 / W3 | Bedroom | 35.59 | 26.24 | 9.35 | 26 | No | 98 | 83 | 15 | Yes | 85 | 68 | 20 | Yes | 27 | 10 | 63 | Yes |
| First R3 / W4 | Bedroom | 35.66 | 26.18 | 9.48 | 27 | No | 97 | 79 | 19 | Yes | 85 | 67 | 21 | Yes | 27 | 9 | 67 | Yes |
| First R4 / W5 | LKD | 14.82 | 6.98 | 7.84 | 53 | No | 99 | 93 | 6 | Yes | 24 | 14 | 42 | No | 22 | 12 | 45 | Yes |
| First R5 / W6 | Bedroom | 35.79 | 25.74 | 10.05 | 28 | No | 97 | 83 | 15 | Yes | 85 | 69 | 19 | Yes | 27 | 12 | 56 | Yes |
| First R6 / W7 | Bedroom | 35.86 | 25.55 | 10.31 | 29 | No | 96 | 60 | 38 | No | 85 | 70 | 18 | Yes | 27 | 13 | 52 | Yes |
| First R7 / W8 | Bedroom | 35.93 | 25.40 | 10.53 | 29 | No | 96 | 74 | 24 | No | 85 | 67 | 21 | Yes | 27 | 10 | 63 | Yes |
| First R8 / W9 | Bedroom | 35.99 | 25.27 | 10.72 | 30 | No | 97 | 74 | 24 | No | 85 | 68 | 20 | Yes | 27 | 11 | 59 | Yes |
| First R9 / W10 | LKD | 16.42 | 6.39 | 10.03 | 61 | No | 100 | 89 | 11 | Yes | 29 | 14 | 52 | No | 26 | 12 | 54 | Yes |
| First R9 / W11 | | 37.88 | 33.65 | 4.23 | 11 | Yes | | | | | 49 | 42 | 14 | Yes | 15 | 8 | 47 | Yes |
| Second R1 / W1 | LKD | 28.36 | 26.23 | 2.13 | 8 | Yes | 99 | 98 | 1 | Yes | *North Facing* | | | | | | | |
| Second R1 / W3 | | 16.39 | 8.90 | 7.49 | 46 | No | | | | | 25 | 14 | 44 | No | 24 | 13 | 46 | Yes |
| Second R2 / W4 | Bedroom | 36.69 | 27.69 | 9.00 | 25 | Yes | 98 | 84 | 14 | Yes | 86 | 72 | 16 | Yes | 28 | 14 | 50 | Yes |
| Second R3 / W5 | Bedroom | 36.75 | 27.64 | 9.11 | 25 | Yes | 97 | 80 | 18 | Yes | 86 | 72 | 16 | Yes | 28 | 14 | 50 | Yes |
| Second R4 / W6 | LKD | 15.68 | 8.17 | 7.51 | 48 | No | 99 | 94 | 5 | Yes | 24 | 16 | 33 | No | 22 | 14 | 36 | Yes |
| Second R5 / W7 | Bedroom | 36.86 | 27.25 | 9.61 | 26 | Yes | 97 | 88 | 9 | Yes | 85 | 73 | 14 | Yes | 27 | 15 | 44 | Yes |
| Second R6 / W8 | Bedroom | 36.91 | 27.10 | 9.81 | 27 | Yes | 96 | 70 | 28 | No | 86 | 74 | 14 | Yes | 28 | 16 | 43 | Yes |
| Second R7 / W9 | Bedroom | 36.97 | 26.98 | 9.99 | 27 | No | 96 | 85 | 12 | Yes | 86 | 70 | 19 | Yes | 28 | 13 | 54 | Yes |
| Second R8 / W10 | Bedroom | 37.02 | 26.87 | 10.15 | 27 | No | 97 | 86 | 12 | Yes | 87 | 71 | 18 | Yes | 29 | 14 | 52 | Yes |
| Second R9 / W11 | LKD | 17.30 | 7.84 | 9.46 | 55 | No | 100 | 92 | 8 | Yes | 30 | 16 | 47 | No | 27 | 13 | 52 | Yes |
| Second R9 / W12 | | 38.68 | 34.68 | 4.00 | 10 | Yes | | | | | 50 | 45 | 10 | Yes | 15 | 10 | 33 | Yes |
| Third R1 / W1 | LKD | 30.79 | 28.73 | 2.06 | 7 | Yes | 99 | 98 | 1 | Yes | *North Facing* | | | | | | | |
| Third R1 / W2 | | 17.22 | 10.22 | 7.00 | 41 | No | | | | | 27 | 16 | 41 | No | 26 | 15 | 42 | Yes |

**Daylight and Sunlight Illustrative Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Third R2 / W3 | Bedroom | 37.58 | 29.18 | 8.40 | 22 | Yes | 98 | 85 | 13 | Yes | 88 | 74 | 16 | Yes | 30 | 16 | 47 | Yes |
| Third R3 / W4 | Bedroom | 37.63 | 29.12 | 8.51 | 23 | Yes | 97 | 81 | 16 | Yes | 88 | 76 | 14 | Yes | 30 | 18 | 40 | Yes |
| Third R4 / W5 | LKD | 16.38 | 9.38 | 7.00 | 43 | No | 99 | 95 | 4 | Yes | 26 | 18 | 31 | No | 24 | 16 | 33 | Yes |
| Third R5 / W6 | Bedroom | 37.72 | 28.79 | 8.93 | 24 | Yes | 97 | 89 | 8 | Yes | 88 | 74 | 16 | Yes | 30 | 16 | 47 | Yes |
| Third R6 / W7 | Bedroom | 37.78 | 28.68 | 9.10 | 24 | Yes | 96 | 76 | 21 | No | 88 | 75 | 15 | Yes | 30 | 17 | 43 | Yes |
| Third R7 / W8 | Bedroom | 37.84 | 28.60 | 9.24 | 24 | Yes | 96 | 87 | 10 | Yes | 88 | 73 | 17 | Yes | 30 | 15 | 50 | Yes |
| Third R8 / W9 | Bedroom | 37.88 | 28.50 | 9.38 | 25 | Yes | 97 | 88 | 9 | Yes | 88 | 75 | 15 | Yes | 30 | 17 | 43 | Yes |
| Third R9 / W10 | LKD | 18.02 | 9.32 | 8.70 | 48 | No | 100 | 94 | 6 | Yes | 31 | 18 | 42 | No | 28 | 15 | 46 | Yes |
| Third R9 / W11 | | 39.27 | 35.56 | 3.71 | 9 | Yes | | | | | 50 | 45 | 10 | Yes | 15 | 10 | 33 | Yes |
| Fourth R1 / W1 | LKD | 33.22 | 31.26 | 1.96 | 6 | Yes | 99 | 98 | 0 | Yes | *North Facing* | | | | | | | |
| Fourth R1 / W2 | | 17.91 | 11.54 | 6.37 | 36 | No | | | | | 27 | 18 | 33 | No | 26 | 17 | 35 | Yes |
| Fourth R2 / W3 | Bedroom | 38.28 | 30.67 | 7.61 | 20 | Yes | 98 | 89 | 9 | Yes | 88 | 78 | 11 | Yes | 30 | 20 | 33 | Yes |
| Fourth R3 / W4 | Bedroom | 38.32 | 30.62 | 7.70 | 20 | Yes | 97 | 84 | 13 | Yes | 88 | 78 | 11 | Yes | 30 | 20 | 33 | Yes |
| Fourth R4 / W5 | LKD | 16.92 | 10.63 | 6.29 | 37 | No | 99 | 96 | 3 | Yes | 26 | 21 | 19 | Yes | 24 | 19 | 21 | Yes |
| Fourth R5 / W6 | Bedroom | 38.39 | 30.38 | 8.01 | 21 | Yes | 97 | 90 | 7 | Yes | 88 | 77 | 13 | Yes | 30 | 19 | 37 | Yes |
| Fourth R6 / W7 | Bedroom | 38.42 | 30.29 | 8.13 | 21 | Yes | 96 | 80 | 17 | Yes | 88 | 78 | 11 | Yes | 30 | 20 | 33 | Yes |
| Fourth R7 / W8 | Bedroom | 38.45 | 30.22 | 8.23 | 21 | Yes | 96 | 90 | 7 | Yes | 88 | 77 | 13 | Yes | 30 | 19 | 37 | Yes |
| Fourth R8 / W9 | Bedroom | 38.48 | 30.16 | 8.32 | 22 | Yes | 97 | 90 | 7 | Yes | 88 | 77 | 13 | Yes | 30 | 19 | 37 | Yes |
| Fourth R9 / W10 | LKD | 18.48 | 10.82 | 7.66 | 41 | No | 100 | 98 | 2 | Yes | 31 | 20 | 35 | No | 28 | 17 | 39 | Yes |
| Fourth R9 / W11 | | 39.56 | 36.27 | 3.29 | 8 | Yes | | | | | 50 | 46 | 8 | Yes | 15 | 11 | 27 | Yes |
| Fifth R1 / W1 | LKD | 18.96 | 13.07 | 5.89 | 31 | No | 100 | 100 | 0 | Yes | 28 | 22 | 21 | No | 26 | 20 | 23 | Yes |
| Fifth R1 / W8 | | 29.72 | 28.00 | 1.72 | 6 | Yes | | | | | *North Facing* | | | | | | | |
| Fifth R2 / W2 | Bedroom | 38.83 | 31.94 | 6.89 | 18 | Yes | 97 | 94 | 4 | Yes | 88 | 80 | 9 | Yes | 30 | 22 | 27 | Yes |
| Fifth R3 / W3 | Bedroom | 38.84 | 31.88 | 6.96 | 18 | Yes | 96 | 85 | 12 | Yes | 88 | 79 | 10 | Yes | 30 | 21 | 30 | Yes |
| Fifth R4 / W4 | Bedroom | 38.86 | 31.84 | 7.02 | 18 | Yes | 96 | 93 | 3 | Yes | 88 | 78 | 11 | Yes | 30 | 20 | 33 | Yes |
| Fifth R5 / W5 | Bedroom | 38.87 | 31.80 | 7.07 | 18 | Yes | 97 | 93 | 4 | Yes | 88 | 77 | 13 | Yes | 30 | 19 | 37 | Yes |
| Fifth R6 / W6 | LKD | 18.79 | 12.31 | 6.48 | 34 | No | 100 | 99 | 1 | Yes | 31 | 22 | 29 | No | 28 | 19 | 32 | Yes |
| Fifth R6 / W7 | | 39.60 | 36.77 | 2.83 | 7 | Yes | | | | | 50 | 46 | 8 | Yes | 15 | 11 | 27 | Yes |
| Sixth R1 / W1 | LKD | 35.68 | 30.87 | 4.81 | 13 | Yes | 100 | 100 | 0 | Yes | 71 | 69 | 3 | Yes | 26 | 24 | 8 | Yes |
| Sixth R1 / W8 | | 33.94 | 32.43 | 1.51 | 4 | Yes | | | | | *North Facing* | | | | | | | |
| Sixth R2 / W2 | Bedroom | 39.07 | 33.46 | 5.61 | 14 | Yes | 97 | 97 | 0 | Yes | 88 | 84 | 5 | Yes | 30 | 26 | 13 | Yes |
| Sixth R3 / W3 | Bedroom | 39.08 | 33.44 | 5.64 | 14 | Yes | 96 | 91 | 5 | Yes | 88 | 83 | 6 | Yes | 30 | 25 | 17 | Yes |
| Sixth R4 / W4 | Bedroom | 39.08 | 33.43 | 5.65 | 14 | Yes | 96 | 96 | 0 | Yes | 88 | 83 | 6 | Yes | 30 | 25 | 17 | Yes |
| Sixth R5 / W5 | Bedroom | 39.09 | 33.41 | 5.68 | 15 | Yes | 97 | 97 | 0 | Yes | 88 | 82 | 7 | Yes | 30 | 24 | 20 | Yes |
| Sixth R6 / W6 | LKD | 18.97 | 13.78 | 5.19 | 27 | No | 100 | 99 | 1 | Yes | 31 | 25 | 19 | Yes | 28 | 22 | 21 | Yes |
| Sixth R6 / W7 | | 39.61 | 37.25 | 2.36 | 6 | Yes | | | | | 50 | 47 | 6 | Yes | 15 | 12 | 20 | Yes |
| **Norada Geoffrey Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 4.04 | 4.05 | -0.01 | 0 | Yes | 62 | 61 | 2 | Yes | *North Facing* | | | | | | | |
| First R1 / W2 | | 12.97 | 12.88 | 0.09 | 1 | Yes | | | | | 31 | 31 | 0 | Yes | 5 | 5 | 0 | Yes |
| First R2 / W3 | LKD | 0.56 | 0.28 | 0.28 | 50 | No | 38 | 18 | 52 | No | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| First R3 / W4 | Bedroom | 10.72 | 10.72 | 0.00 | 0 | Yes | 29 | 29 | 0 | Yes | 30 | 30 | 0 | Yes | 0 | 0 | 100 | Yes |
| First R4 / W5 | Bedroom | 10.31 | 10.31 | 0.00 | 0 | Yes | 22 | 22 | 0 | Yes | 33 | 33 | 0 | Yes | 0 | 0 | 100 | Yes |
| Second R1 / W1 | LKD | 4.45 | 4.46 | -0.01 | 0 | Yes | 62 | 61 | 2 | Yes | *North Facing* | | | | | | | |
| Second R1 / W2 | | 15.02 | 14.90 | 0.12 | 1 | Yes | | | | | 34 | 34 | 0 | Yes | 5 | 5 | 0 | Yes |
| Second R2 / W3 | LKD | 0.61 | 0.34 | 0.27 | 44 | No | 39 | 22 | 44 | No | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| Second R3 / W4 | Bedroom | 12.95 | 12.95 | 0.00 | 0 | Yes | 36 | 36 | 0 | Yes | 40 | 40 | 0 | Yes | 0 | 0 | 100 | Yes |
| Second R4 / W5 | Bedroom | 12.48 | 12.48 | 0.00 | 0 | Yes | 29 | 29 | 0 | Yes | 40 | 40 | 0 | Yes | 1 | 1 | 0 | Yes |
| Third R1 / W1 | LKD | 4.86 | 4.87 | -0.01 | 0 | Yes | 63 | 62 | 2 | Yes | *North Facing* | | | | | | | |
| Third R1 / W2 | | 17.55 | 17.40 | 0.15 | 1 | Yes | | | | | 43 | 43 | 0 | Yes | 7 | 7 | 0 | Yes |
| Third R2 / W3 | LKD | 0.73 | 0.47 | 0.26 | 36 | No | 40 | 26 | 35 | No | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| Third R3 / W4 | Bedroom | 15.77 | 15.77 | 0.00 | 0 | Yes | 50 | 50 | 0 | Yes | 48 | 48 | 0 | Yes | 1 | 1 | 0 | Yes |
| Third R4 / W5 | Bedroom | 15.25 | 15.25 | 0.00 | 0 | Yes | 36 | 36 | 0 | Yes | 48 | 48 | 0 | Yes | 3 | 3 | 0 | Yes |

**Daylight and Sunlight Illustrative Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Fourth R1 / W1 | LKD | 5.32 | 5.33 | -0.01 | 0 | Yes | 64 | 63 | 1 | Yes | *North Facing* | | | | | | | |
| Fourth R1 / W2 | | 20.61 | 20.43 | 0.18 | 1 | Yes | | | | | 49 | 49 | 0 | Yes | 9 | 9 | 0 | Yes |
| Fourth R2 / W3 | LKD | 1.01 | 0.76 | 0.25 | 25 | No | 41 | 30 | 27 | No | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| Fourth R3 / W4 | Bedroom | 19.34 | 19.34 | 0.00 | 0 | Yes | 59 | 59 | 0 | Yes | 55 | 55 | 0 | Yes | 3 | 3 | 0 | Yes |
| Fourth R4 / W5 | Bedroom | 18.80 | 18.80 | 0.00 | 0 | Yes | 42 | 42 | 0 | Yes | 57 | 57 | 0 | Yes | 5 | 5 | 0 | Yes |
| Fifth R1 / W1 | LKD | 6.04 | 6.04 | 0.00 | 0 | Yes | 66 | 66 | 1 | Yes | *North Facing* | | | | | | | |
| Fifth R1 / W2 | | 24.22 | 23.95 | 0.27 | 1 | Yes | | | | | 53 | 53 | 0 | Yes | 12 | 12 | 0 | Yes |
| Fifth R2 / W3 | LKD | 1.69 | 1.42 | 0.27 | 16 | Yes | 45 | 39 | 14 | Yes | 2 | 2 | 0 | Yes | 1 | 1 | 0 | Yes |
| Fifth R3 / W4 | Bedroom | 23.77 | 23.71 | 0.06 | 0 | Yes | 66 | 66 | 0 | Yes | 66 | 66 | 0 | Yes | 8 | 8 | 0 | Yes |
| Fifth R4 / W5 | Bedroom | 23.28 | 23.23 | 0.05 | 0 | Yes | 49 | 49 | 0 | Yes | 64 | 64 | 0 | Yes | 6 | 6 | 0 | Yes |
| Sixth R1 / W1 | LKD | 7.10 | 7.08 | 0.02 | 0 | Yes | 71 | 71 | 0 | Yes | *North Facing* | | | | | | | |
| Sixth R1 / W2 | | 28.11 | 27.69 | 0.42 | 1 | Yes | | | | | 59 | 59 | 0 | Yes | 18 | 18 | 0 | Yes |
| Sixth R2 / W3 | LKD | 2.51 | 2.23 | 0.28 | 11 | Yes | 61 | 59 | 3 | Yes | 3 | 3 | 0 | Yes | 2 | 2 | 0 | Yes |
| Sixth R3 / W4 | Bedroom | 28.92 | 28.79 | 0.13 | 0 | Yes | 82 | 82 | 0 | Yes | 76 | 76 | 0 | Yes | 18 | 18 | 0 | Yes |
| Sixth R4 / W5 | Bedroom | 28.49 | 28.33 | 0.16 | 1 | Yes | 67 | 67 | 0 | Yes | 74 | 73 | 1 | Yes | 16 | 15 | 6 | Yes |
| Seventh R1 / W1 | LKD | 8.04 | 7.90 | 0.14 | 2 | Yes | 89 | 89 | 0 | Yes | *North Facing* | | | | | | | |
| Seventh R1 / W2 | | 31.71 | 31.10 | 0.61 | 2 | Yes | | | | | 65 | 65 | 0 | Yes | 24 | 24 | 0 | Yes |
| Seventh R2 / W3 | LKD | 5.83 | 5.47 | 0.36 | 6 | Yes | 81 | 81 | 0 | Yes | 10 | 10 | 0 | Yes | 9 | 9 | 0 | Yes |
| Seventh R3 / W4 | Bedroom | 34.25 | 33.96 | 0.29 | 1 | Yes | 97 | 97 | 0 | Yes | 86 | 86 | 0 | Yes | 28 | 28 | 0 | Yes |
| Seventh R4 / W5 | Bedroom | 34.02 | 33.76 | 0.26 | 1 | Yes | 98 | 98 | 0 | Yes | 86 | 86 | 0 | Yes | 28 | 28 | 0 | Yes |
| Eighth R1 / W1 | LKD | 8.61 | 8.48 | 0.13 | 2 | Yes | 94 | 94 | 0 | Yes | *North Facing* | | | | | | | |
| Eighth R1 / W2 | | 34.74 | 33.66 | 1.08 | 3 | Yes | | | | | 67 | 67 | 0 | Yes | 26 | 26 | 0 | Yes |
| Eighth R2 / W3 | LKD | 8.63 | 7.88 | 0.75 | 9 | Yes | 84 | 84 | 0 | Yes | 11 | 11 | 0 | Yes | 10 | 10 | 0 | Yes |
| Eighth R3 / W4 | Bedroom | 38.85 | 37.69 | 1.16 | 3 | Yes | 97 | 97 | 0 | Yes | 88 | 88 | 0 | Yes | 30 | 30 | 0 | Yes |
| Eighth R4 / W5 | Bedroom | 38.90 | 37.70 | 1.20 | 3 | Yes | 98 | 98 | 0 | Yes | 88 | 88 | 0 | Yes | 30 | 30 | 0 | Yes |
| Ninth R1 / W1 | LKD | 21.14 | 21.05 | 0.09 | 0 | Yes | 94 | 94 | 0 | Yes | *North Facing* | | | | | | | |
| Ninth R1 / W2 | | 37.38 | 36.46 | 0.92 | 2 | Yes | | | | | 80 | 80 | 0 | Yes | 26 | 26 | 0 | Yes |
| Ninth R2 / W3 | LKD | 21.54 | 20.92 | 0.62 | 3 | Yes | 84 | 84 | 0 | Yes | 34 | 34 | 0 | Yes | 10 | 10 | 0 | Yes |
| Ninth R3 / W4 | Bedroom | 39.43 | 38.41 | 1.02 | 3 | Yes | 97 | 97 | 0 | Yes | 88 | 88 | 0 | Yes | 30 | 30 | 0 | Yes |
| Ninth R4 / W5 | Bedroom | 39.43 | 38.42 | 1.01 | 3 | Yes | 98 | 98 | 0 | Yes | 88 | 88 | 0 | Yes | 30 | 30 | 0 | Yes |
| **White Moth Geoffrey Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 0.00 | 0.00 | 0.00 | 100 | Yes | 1 | 1 | 0 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| First R1 / W2 | | 0.00 | 0.00 | 0.00 | 100 | Yes | | | | | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| First R2 / W3 | LKD | 0.00 | 0.00 | 0.00 | 100 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| First R2 / W4 | | 0.03 | 0.00 | 0.03 | 100 | No | | | | | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| First R3 / W5 | LKD | 12.88 | 12.88 | 0.00 | 0 | Yes | 14 | 14 | 0 | Yes | 38 | 38 | 0 | Yes | 1 | 1 | 0 | Yes |
| First R4 / W6 | Bedroom | 0.00 | 0.00 | 0.00 | 100 | Yes | 3 | 3 | 0 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| First R5 / W7 | LKD | 0.00 | 0.00 | 0.00 | 100 | Yes | 14 | 14 | 0 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| First R5 / W8 | | 0.01 | 0.01 | 0.00 | 0 | Yes | | | | | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Second R1 / W1 | LKD | 0.00 | 0.00 | 0.00 | 100 | Yes | 6 | 6 | 0 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Second R1 / W2 | | 0.00 | 0.00 | 0.00 | 100 | Yes | | | | | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Second R2 / W3 | LKD | 0.00 | 0.00 | 0.00 | 100 | Yes | 1 | 1 | 5 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Second R2 / W4 | | 0.03 | 0.03 | 0.00 | 0 | Yes | | | | | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Second R3 / W5 | LKD | 15.85 | 15.85 | 0.00 | 0 | Yes | 18 | 18 | 0 | Yes | 48 | 48 | 0 | Yes | 2 | 2 | 0 | Yes |
| Second R4 / W6 | Bedroom | 0.00 | 0.00 | 0.00 | 100 | Yes | 7 | 7 | 0 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Second R5 / W7 | LKD | 0.05 | 0.05 | 0.00 | 0 | Yes | 24 | 24 | 0 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Second R5 / W8 | | 0.11 | 0.11 | 0.00 | 0 | Yes | | | | | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Third R1 / W1 | LKD | 0.00 | 0.00 | 0.00 | 100 | Yes | 18 | 18 | 0 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Third R1 / W2 | | 0.00 | 0.00 | 0.00 | 100 | Yes | | | | | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Third R2 / W3 | LKD | 0.00 | 0.00 | 0.00 | 100 | Yes | 12 | 12 | 0 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Third R2 / W4 | | 0.03 | 0.03 | 0.00 | 0 | Yes | | | | | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Third R3 / W5 | LKD | 19.63 | 19.63 | 0.00 | 0 | Yes | 24 | 24 | 0 | Yes | 56 | 56 | 0 | Yes | 5 | 5 | 0 | Yes |

**Daylight and Sunlight Illustrative Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Third R4 / W6 | Bedroom | 0.05 | 0.05 | 0.00 | 0 | Yes | 17 | 17 | 0 | Yes | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| Third R5 / W7 | LKD | 0.18 | 0.18 | 0.00 | 0 | Yes | 40 | 40 | 0 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Third R5 / W8 | | 0.31 | 0.31 | 0.00 | 0 | Yes | | | | | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| Fourth R1 / W1 | LKD | 0.48 | 0.48 | 0.00 | 0 | Yes | 40 | 40 | 0 | Yes | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| Fourth R1 / W2 | | 0.38 | 0.38 | 0.00 | 0 | Yes | | | | | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| Fourth R2 / W3 | LKD | 0.38 | 0.37 | 0.01 | 3 | Yes | 42 | 42 | 1 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Fourth R2 / W4 | | 0.38 | 0.38 | 0.00 | 0 | Yes | | | | | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Fourth R3 / W5 | LKD | 24.22 | 24.22 | 0.00 | 0 | Yes | 39 | 39 | 0 | Yes | 65 | 65 | 0 | Yes | 12 | 12 | 0 | Yes |
| Fourth R4 / W6 | Bedroom | 0.98 | 0.98 | 0.00 | 0 | Yes | 40 | 40 | 0 | Yes | 2 | 2 | 0 | Yes | 2 | 2 | 0 | Yes |
| Fourth R5 / W7 | LKD | 1.14 | 1.09 | 0.05 | 4 | Yes | 63 | 62 | 0 | Yes | 2 | 2 | 0 | Yes | 2 | 2 | 0 | Yes |
| Fourth R5 / W8 | | 1.13 | 1.11 | 0.02 | 2 | Yes | | | | | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| Fifth R1 / W1 | LKD | 1.08 | 0.97 | 0.11 | 10 | Yes | 57 | 56 | 0 | Yes | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| Fifth R1 / W2 | | 0.88 | 0.87 | 0.01 | 1 | Yes | | | | | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| Fifth R2 / W3 | LKD | 1.88 | 1.81 | 0.07 | 4 | Yes | 77 | 77 | 0 | Yes | 2 | 2 | 0 | Yes | 2 | 2 | 0 | Yes |
| Fifth R2 / W4 | | 1.73 | 1.67 | 0.06 | 3 | Yes | | | | | 3 | 3 | 0 | Yes | 3 | 3 | 0 | Yes |
| Fifth R3 / W5 | LKD | 29.39 | 29.33 | 0.06 | 0 | Yes | 84 | 80 | 5 | Yes | 75 | 75 | 0 | Yes | 19 | 19 | 0 | Yes |
| Fifth R4 / W6 | Bedroom | 3.85 | 3.76 | 0.09 | 2 | Yes | 69 | 69 | 0 | Yes | 7 | 7 | 0 | Yes | 7 | 7 | 0 | Yes |
| Fifth R5 / W7 | LKD | 4.45 | 4.23 | 0.22 | 5 | Yes | 93 | 93 | 0 | Yes | 7 | 7 | 0 | Yes | 7 | 7 | 0 | Yes |
| Fifth R5 / W8 | | 4.07 | 3.92 | 0.15 | 4 | Yes | | | | | 7 | 7 | 0 | Yes | 7 | 7 | 0 | Yes |
| Sixth R1 / W1 | LKD | 3.19 | 2.85 | 0.34 | 11 | Yes | 73 | 73 | 1 | Yes | 4 | 3 | 25 | Yes | 4 | 3 | 25 | Yes |
| Sixth R1 / W2 | | 3.21 | 3.03 | 0.18 | 6 | Yes | | | | | 4 | 4 | 0 | Yes | 4 | 4 | 0 | Yes |
| Sixth R2 / W3 | LKD | 3.19 | 2.47 | 0.72 | 23 | No | 82 | 82 | 0 | Yes | 3 | 2 | 33 | Yes | 3 | 2 | 33 | Yes |
| Sixth R2 / W4 | | 2.97 | 2.48 | 0.49 | 16 | Yes | | | | | 4 | 4 | 0 | Yes | 4 | 4 | 0 | Yes |
| Sixth R3 / W5 | LKD | 34.06 | 32.94 | 1.12 | 3 | Yes | 94 | 94 | 0 | Yes | 80 | 79 | 1 | Yes | 24 | 23 | 4 | Yes |
| Sixth R4 / W6 | Bedroom | 6.44 | 5.44 | 1.00 | 16 | Yes | 78 | 78 | 0 | Yes | 8 | 8 | 0 | Yes | 8 | 8 | 0 | Yes |
| Sixth R5 / W7 | LKD | 7.18 | 5.99 | 1.19 | 17 | Yes | 96 | 96 | 0 | Yes | 8 | 7 | 13 | Yes | 8 | 7 | 13 | Yes |
| Sixth R5 / W8 | | 6.60 | 5.63 | 0.97 | 15 | Yes | | | | | 8 | 8 | 0 | Yes | 8 | 8 | 0 | Yes |
| Seventh R1 / W1 | LKD | 6.68 | 6.25 | 0.43 | 6 | Yes | 95 | 95 | 0 | Yes | 11 | 10 | 9 | Yes | 11 | 10 | 9 | Yes |
| Seventh R1 / W2 | | 6.97 | 6.79 | 0.18 | 3 | Yes | | | | | 10 | 10 | 0 | Yes | 10 | 10 | 0 | Yes |
| Seventh R2 / W3 | LKD | 6.01 | 5.24 | 0.77 | 13 | Yes | 92 | 92 | 0 | Yes | 8 | 7 | 13 | Yes | 8 | 7 | 13 | Yes |
| Seventh R2 / W4 | | 5.94 | 5.49 | 0.45 | 8 | Yes | | | | | 8 | 8 | 0 | Yes | 8 | 8 | 0 | Yes |
| Seventh R3 / W5 | LKD | 36.98 | 35.84 | 1.14 | 3 | Yes | 98 | 98 | 0 | Yes | 85 | 84 | 1 | Yes | 28 | 27 | 4 | Yes |
| Seventh R4 / W6 | Bedroom | 32.42 | 31.20 | 1.22 | 4 | Yes | 94 | 94 | 0 | Yes | 69 | 68 | 1 | Yes | 26 | 25 | 4 | Yes |
| Eighth R1 / W1 | LKD | 29.29 | 28.19 | 1.10 | 4 | Yes | 98 | 98 | 0 | Yes | 62 | 62 | 0 | Yes | 23 | 23 | 0 | Yes |
| Eighth R1 / W2 | | 36.90 | 35.64 | 1.26 | 3 | Yes | | | | | 77 | 77 | 0 | Yes | 28 | 28 | 0 | Yes |
| **Olive Geoffrey Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 1.04 | 1.00 | 0.04 | 4 | Yes | 59 | 59 | 0 | Yes | 2 | 2 | 0 | Yes | 2 | 2 | 0 | Yes |
| First R1 / W2 | | 1.78 | 1.84 | -0.06 | -3 | Yes | | | | | 2 | 2 | 0 | Yes | 2 | 2 | 0 | Yes |
| First R2 / W3 | Bedroom | 21.29 | 21.06 | 0.23 | 1 | Yes | 76 | 76 | 0 | Yes | 60 | 59 | 2 | Yes | 9 | 8 | 11 | Yes |
| First R3 / W4 | Bedroom | 22.02 | 21.50 | 0.52 | 2 | Yes | 74 | 74 | 0 | Yes | 59 | 58 | 2 | Yes | 9 | 8 | 11 | Yes |
| First R4 / W5 | LKD | 2.28 | 1.53 | 0.75 | 33 | No | 74 | 60 | 19 | Yes | 7 | 5 | 29 | Yes | 5 | 3 | 40 | Yes |
| First R5 / W6 | LKD | 21.11 | 20.22 | 0.89 | 4 | Yes | 98 | 98 | 0 | Yes | 56 | 54 | 4 | Yes | 11 | 9 | 18 | Yes |
| First R5 / W7 | | 5.75 | 5.35 | 0.40 | 7 | Yes | | | | | 9 | 8 | 11 | Yes | 3 | 2 | 33 | Yes |
| Second R1 / W1 | LKD | 1.46 | 1.36 | 0.10 | 7 | Yes | 65 | 65 | 0 | Yes | 2 | 2 | 0 | Yes | 2 | 2 | 0 | Yes |
| Second R1 / W2 | | 2.23 | 2.25 | -0.02 | -1 | Yes | | | | | 2 | 2 | 0 | Yes | 2 | 2 | 0 | Yes |
| Second R2 / W3 | Bedroom | 24.44 | 24.20 | 0.24 | 1 | Yes | 83 | 83 | 0 | Yes | 64 | 64 | 0 | Yes | 11 | 11 | 0 | Yes |
| Second R3 / W4 | Bedroom | 25.22 | 24.71 | 0.51 | 2 | Yes | 83 | 83 | 0 | Yes | 66 | 65 | 2 | Yes | 12 | 11 | 8 | Yes |
| Second R4 / W5 | LKD | 2.72 | 1.97 | 0.75 | 28 | No | 82 | 80 | 2 | Yes | 8 | 6 | 25 | Yes | 6 | 4 | 33 | Yes |
| Second R5 / W6 | LKD | 23.95 | 23.04 | 0.91 | 4 | Yes | 98 | 98 | 0 | Yes | 59 | 57 | 3 | Yes | 14 | 12 | 14 | Yes |
| Second R5 / W7 | | 6.64 | 6.26 | 0.38 | 6 | Yes | | | | | 10 | 9 | 10 | Yes | 3 | 2 | 33 | Yes |
| Third R1 / W1 | LKD | 2.91 | 2.76 | 0.15 | 5 | Yes | 74 | 74 | 0 | Yes | 4 | 4 | 0 | Yes | 4 | 4 | 0 | Yes |
| Third R1 / W2 | | 3.31 | 3.28 | 0.03 | 1 | Yes | | | | | 4 | 4 | 0 | Yes | 4 | 4 | 0 | Yes |

**Daylight and Sunlight Illustrative Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Third R2 / W3 | Bedroom | 27.79 | 27.55 | 0.24 | 1 | Yes | 90 | 90 | 0 | Yes | 72 | 72 | 0 | Yes | 17 | 17 | 0 | Yes |
| Third R3 / W4 | Bedroom | 28.52 | 28.03 | 0.49 | 2 | Yes | 90 | 90 | 0 | Yes | 72 | 71 | 1 | Yes | 17 | 16 | 6 | Yes |
| Third R4 / W5 | LKD | 3.32 | 2.60 | 0.72 | 22 | No | 88 | 87 | 0 | Yes | 9 | 8 | 11 | Yes | 7 | 6 | 14 | Yes |
| Third R5 / W6 | LKD | 26.59 | 25.66 | 0.93 | 3 | Yes | 99 | 99 | 0 | Yes | 64 | 63 | 2 | Yes | 19 | 18 | 5 | Yes |
| Third R5 / W7 | | 7.37 | 7.01 | 0.36 | 5 | Yes | | | | | 10 | 9 | 10 | Yes | 3 | 2 | 33 | Yes |
| Fourth R1 / W1 | LKD | 5.43 | 5.21 | 0.22 | 4 | Yes | 90 | 90 | 0 | Yes | 8 | 8 | 0 | Yes | 8 | 8 | 0 | Yes |
| Fourth R1 / W2 | | 5.46 | 5.39 | 0.07 | 1 | Yes | | | | | 5 | 5 | 0 | Yes | 5 | 5 | 0 | Yes |
| Fourth R2 / W3 | Bedroom | 31.25 | 30.91 | 0.34 | 1 | Yes | 97 | 97 | 0 | Yes | 76 | 76 | 0 | Yes | 20 | 20 | 0 | Yes |
| Fourth R3 / W4 | Bedroom | 31.78 | 31.26 | 0.52 | 2 | Yes | 96 | 96 | 0 | Yes | 77 | 77 | 0 | Yes | 21 | 21 | 0 | Yes |
| Fourth R4 / W5 | LKD | 4.61 | 3.96 | 0.65 | 14 | Yes | 92 | 92 | 0 | Yes | 9 | 8 | 11 | Yes | 7 | 6 | 14 | Yes |
| Fourth R5 / W6 | LKD | 29.55 | 28.64 | 0.91 | 3 | Yes | 100 | 100 | 0 | Yes | 68 | 67 | 1 | Yes | 23 | 22 | 4 | Yes |
| Fourth R5 / W7 | | 20.14 | 19.81 | 0.33 | 2 | Yes | | | | | 29 | 28 | 3 | Yes | 5 | 4 | 20 | Yes |
| Fifth R1 / W1 | LKD | 24.75 | 24.32 | 0.43 | 2 | Yes | 95 | 95 | 0 | Yes | 56 | 55 | 2 | Yes | 21 | 20 | 5 | Yes |
| Fifth R1 / W2 | | 25.13 | 24.89 | 0.24 | 1 | Yes | | | | | 46 | 46 | 0 | Yes | 19 | 19 | 0 | Yes |
| Fifth R2 / W3 | Bedroom | 34.65 | 34.09 | 0.56 | 2 | Yes | 98 | 98 | 0 | Yes | 83 | 82 | 1 | Yes | 26 | 25 | 4 | Yes |
| Fifth R3 / W4 | Bedroom | 34.93 | 34.27 | 0.66 | 2 | Yes | 97 | 97 | 0 | Yes | 85 | 84 | 1 | Yes | 27 | 26 | 4 | Yes |
| Fifth R4 / W5 | LKD | 18.26 | 17.62 | 0.64 | 4 | Yes | 99 | 99 | 0 | Yes | 38 | 37 | 3 | Yes | 11 | 10 | 9 | Yes |

**Daylight and Sunlight Parameter Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| **Brennan Bank Geoffrey Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 8.80 | 7.89 | 0.91 | 10 | Yes | 99 | 98 | 0 | Yes | 17 | 15 | 12 | Yes | 14 | 12 | 14 | Yes |
| First R2 / W2 | Bedroom | 8.62 | 7.65 | 0.97 | 11 | Yes | 100 | 100 | 0 | Yes | 15 | 12 | 20 | Yes | 14 | 11 | 21 | Yes |
| First R3 / W3 | Bedroom | 8.51 | 7.50 | 1.01 | 12 | Yes | 100 | 100 | 0 | Yes | 15 | 12 | 20 | Yes | 14 | 11 | 21 | Yes |
| First R4 / W4 | LKD | 8.39 | 7.29 | 1.10 | 13 | Yes | 95 | 94 | 2 | Yes | 14 | 12 | 14 | Yes | 13 | 11 | 15 | Yes |
| First R5 / W5 | Bedroom | 8.30 | 7.09 | 1.21 | 15 | Yes | 99 | 99 | 0 | Yes | 13 | 11 | 15 | Yes | 12 | 10 | 17 | Yes |
| First R5 / W6 | | 8.58 | 7.14 | 1.44 | 17 | Yes | | | | | 15 | 11 | 27 | Yes | 14 | 10 | 29 | Yes |
| First R6 / W7 | Bedroom | 3.42 | 2.64 | 0.78 | 23 | No | 78 | 48 | 39 | No | 7 | 5 | 29 | Yes | 6 | 4 | 33 | Yes |
| First R7 / W8 | LKD | 3.76 | 3.13 | 0.63 | 17 | Yes | 36 | 26 | 28 | No | 9 | 7 | 22 | Yes | 8 | 6 | 25 | Yes |
| First R8 / W9 | LKD | 4.03 | 3.71 | 0.32 | 8 | Yes | 31 | 27 | 14 | Yes | 7 | 6 | 14 | Yes | 6 | 5 | 17 | Yes |
| First R9 / W10 | Bedroom | 3.05 | 2.82 | 0.23 | 8 | Yes | 36 | 36 | 0 | Yes | 9 | 9 | 0 | Yes | 8 | 8 | 0 | Yes |
| First R10 / W11 | Bedroom | 1.95 | 1.75 | 0.20 | 10 | Yes | 30 | 30 | 0 | Yes | 7 | 7 | 0 | Yes | 3 | 3 | 0 | Yes |
| First R11 / W12 | LKD | 1.46 | 1.31 | 0.15 | 10 | Yes | 18 | 18 | 1 | Yes | 5 | 5 | 0 | Yes | 2 | 2 | 0 | Yes |
| Second R1 / W1 | LKD | 10.02 | 8.91 | 1.11 | 11 | Yes | 99 | 99 | 0 | Yes | 16 | 16 | 0 | Yes | 15 | 15 | 0 | Yes |
| Second R2 / W2 | Bedroom | 10.05 | 8.85 | 1.20 | 12 | Yes | 100 | 100 | 0 | Yes | 17 | 15 | 12 | Yes | 16 | 14 | 13 | Yes |
| Second R3 / W3 | Bedroom | 9.97 | 8.72 | 1.25 | 13 | Yes | 100 | 100 | 0 | Yes | 16 | 14 | 13 | Yes | 15 | 13 | 13 | Yes |
| Second R4 / W4 | LKD | 9.87 | 8.52 | 1.35 | 14 | Yes | 96 | 95 | 1 | Yes | 16 | 13 | 19 | Yes | 15 | 12 | 20 | Yes |
| Second R5 / W5 | Bedroom | 9.71 | 8.32 | 1.39 | 14 | Yes | 99 | 90 | 9 | Yes | 15 | 12 | 20 | Yes | 14 | 11 | 21 | Yes |
| Second R6 / W6 | Bedroom | 8.82 | 7.80 | 1.02 | 12 | Yes | 95 | 95 | 0 | Yes | 13 | 12 | 8 | Yes | 12 | 11 | 8 | Yes |
| Second R7 / W7 | Bedroom | 4.43 | 3.39 | 1.04 | 23 | No | 81 | 55 | 32 | No | 11 | 10 | 9 | Yes | 10 | 9 | 10 | Yes |
| Second R8 / W8 | LKD | 4.29 | 3.65 | 0.64 | 15 | Yes | 38 | 29 | 23 | No | 10 | 9 | 10 | Yes | 9 | 8 | 11 | Yes |
| Second R9 / W9 | LKD | 4.53 | 4.20 | 0.33 | 7 | Yes | 32 | 29 | 8 | Yes | 9 | 9 | 0 | Yes | 8 | 8 | 0 | Yes |
| Second R10 / W10 | Bedroom | 3.55 | 3.30 | 0.25 | 7 | Yes | 37 | 37 | 0 | Yes | 11 | 11 | 0 | Yes | 8 | 8 | 0 | Yes |
| Second R11 / W11 | Bedroom | 2.14 | 1.92 | 0.22 | 10 | Yes | 31 | 31 | 0 | Yes | 7 | 7 | 0 | Yes | 3 | 3 | 0 | Yes |
| Second R12 / W12 | LKD | 0.96 | 0.77 | 0.19 | 20 | Yes | 17 | 17 | 1 | Yes | 4 | 4 | 0 | Yes | 2 | 2 | 0 | Yes |
| Third R1 / W1 | LKD | 11.51 | 10.27 | 1.24 | 11 | Yes | 100 | 100 | 0 | Yes | 20 | 20 | 0 | Yes | 17 | 17 | 0 | Yes |
| Third R2 / W2 | Bedroom | 11.38 | 10.03 | 1.35 | 12 | Yes | 100 | 100 | 0 | Yes | 20 | 19 | 5 | Yes | 19 | 18 | 5 | Yes |
| Third R3 / W3 | Bedroom | 11.31 | 9.89 | 1.42 | 13 | Yes | 100 | 100 | 0 | Yes | 20 | 19 | 5 | Yes | 19 | 18 | 5 | Yes |
| Third R4 / W4 | LKD | 11.22 | 9.70 | 1.52 | 14 | Yes | 96 | 95 | 1 | Yes | 19 | 18 | 5 | Yes | 18 | 17 | 6 | Yes |
| Third R5 / W5 | Bedroom | 11.17 | 9.54 | 1.63 | 15 | Yes | 99 | 96 | 4 | Yes | 19 | 18 | 5 | Yes | 18 | 17 | 6 | Yes |
| Third R6 / W6 | Bedroom | 11.48 | 9.73 | 1.75 | 15 | Yes | 97 | 97 | 0 | Yes | 21 | 20 | 5 | Yes | 20 | 19 | 5 | Yes |
| Third R7 / W7 | Bedroom | 4.65 | 3.71 | 0.94 | 20 | Yes | 82 | 61 | 25 | No | 9 | 9 | 0 | Yes | 8 | 8 | 0 | Yes |
| Third R8 / W8 | LKD | 4.93 | 4.13 | 0.80 | 16 | Yes | 45 | 32 | 29 | No | 10 | 10 | 0 | Yes | 9 | 9 | 0 | Yes |
| Third R9 / W9 | LKD | 5.62 | 5.12 | 0.50 | 9 | Yes | 33 | 29 | 10 | Yes | 10 | 10 | 0 | Yes | 8 | 8 | 0 | Yes |
| Third R10 / W10 | Bedroom | 3.94 | 3.59 | 0.35 | 9 | Yes | 37 | 37 | 0 | Yes | 9 | 9 | 0 | Yes | 8 | 8 | 0 | Yes |
| Third R11 / W11 | Bedroom | 2.52 | 2.22 | 0.30 | 12 | Yes | 32 | 32 | 0 | Yes | 7 | 7 | 0 | Yes | 3 | 3 | 0 | Yes |
| Third R12 / W12 | LKD | 1.98 | 1.74 | 0.24 | 12 | Yes | 21 | 21 | 1 | Yes | 5 | 5 | 0 | Yes | 2 | 2 | 0 | Yes |
| Fourth R1 / W1 | LKD | 12.36 | 11.01 | 1.35 | 11 | Yes | 99 | 99 | 0 | Yes | 21 | 20 | 5 | Yes | 20 | 19 | 5 | Yes |
| Fourth R2 / W2 | Bedroom | 12.52 | 11.04 | 1.48 | 12 | Yes | 100 | 100 | 0 | Yes | 20 | 19 | 5 | Yes | 19 | 18 | 5 | Yes |
| Fourth R3 / W3 | Bedroom | 12.49 | 10.94 | 1.55 | 12 | Yes | 100 | 100 | 0 | Yes | 20 | 19 | 5 | Yes | 19 | 18 | 5 | Yes |
| Fourth R4 / W4 | LKD | 12.44 | 10.77 | 1.67 | 13 | Yes | 97 | 96 | 1 | Yes | 20 | 19 | 5 | Yes | 19 | 18 | 5 | Yes |
| Fourth R5 / W5 | Bedroom | 12.33 | 10.62 | 1.71 | 14 | Yes | 100 | 100 | 0 | Yes | 20 | 19 | 5 | Yes | 19 | 18 | 5 | Yes |
| Fourth R6 / W6 | Bedroom | 11.06 | 9.82 | 1.24 | 11 | Yes | 99 | 99 | 0 | Yes | 17 | 17 | 0 | Yes | 16 | 16 | 0 | Yes |
| Fourth R7 / W7 | Bedroom | 5.92 | 4.61 | 1.31 | 22 | No | 82 | 69 | 16 | Yes | 11 | 11 | 0 | Yes | 10 | 10 | 0 | Yes |
| Fourth R8 / W8 | LKD | 6.34 | 5.45 | 0.89 | 14 | Yes | 44 | 34 | 23 | No | 11 | 11 | 0 | Yes | 9 | 9 | 0 | Yes |
| Fourth R9 / W9 | LKD | 8.50 | 7.94 | 0.56 | 7 | Yes | 33 | 32 | 3 | Yes | 19 | 19 | 0 | Yes | 10 | 10 | 0 | Yes |
| Fourth R10 / W10 | Bedroom | 5.38 | 4.94 | 0.44 | 8 | Yes | 40 | 40 | 0 | Yes | 13 | 13 | 0 | Yes | 9 | 9 | 0 | Yes |
| Fourth R11 / W11 | Bedroom | 3.12 | 2.77 | 0.35 | 11 | Yes | 38 | 38 | 0 | Yes | 7 | 7 | 0 | Yes | 3 | 3 | 0 | Yes |
| Fourth R12 / W12 | LKD | 1.77 | 1.49 | 0.28 | 16 | Yes | 25 | 25 | 0 | Yes | 4 | 4 | 0 | Yes | 2 | 2 | 0 | Yes |
| Fifth R1 / W1 | LKD | 13.69 | 12.26 | 1.43 | 10 | Yes | 100 | 100 | 0 | Yes | 23 | 22 | 4 | Yes | 20 | 19 | 5 | Yes |
| Fifth R2 / W2 | Bedroom | 13.59 | 12.01 | 1.58 | 12 | Yes | 100 | 100 | 0 | Yes | 20 | 19 | 5 | Yes | 19 | 18 | 5 | Yes |
| Fifth R3 / W3 | Bedroom | 13.58 | 11.88 | 1.70 | 13 | Yes | 100 | 100 | 0 | Yes | 20 | 19 | 5 | Yes | 19 | 18 | 5 | Yes |

**Daylight and Sunlight Parameter Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Fifth R4 / W4 | LKD | 13.55 | 11.71 | 1.84 | 14 | Yes | 98 | 98 | 0 | Yes | 21 | 20 | 5 | Yes | 20 | 19 | 5 | Yes |
| Fifth R5 / W5 | Bedroom | 13.56 | 11.60 | 1.96 | 14 | Yes | 100 | 100 | 0 | Yes | 21 | 20 | 5 | Yes | 20 | 19 | 5 | Yes |
| Fifth R6 / W6 | Bedroom | 13.93 | 11.88 | 2.05 | 15 | Yes | 99 | 99 | 0 | Yes | 23 | 22 | 4 | Yes | 22 | 21 | 5 | Yes |
| Fifth R7 / W7 | Bedroom | 8.10 | 6.91 | 1.19 | 15 | Yes | 91 | 87 | 4 | Yes | 13 | 13 | 0 | Yes | 9 | 9 | 0 | Yes |
| Fifth R8 / W8 | LKD | 10.51 | 9.49 | 1.02 | 10 | Yes | 57 | 48 | 16 | Yes | 19 | 19 | 0 | Yes | 10 | 10 | 0 | Yes |
| Fifth R9 / W9 | LKD | 13.69 | 13.00 | 0.69 | 5 | Yes | 42 | 41 | 1 | Yes | 29 | 29 | 0 | Yes | 10 | 10 | 0 | Yes |
| Fifth R10 / W10 | Bedroom | 9.42 | 8.91 | 0.51 | 5 | Yes | 51 | 51 | 0 | Yes | 20 | 20 | 0 | Yes | 11 | 11 | 0 | Yes |
| Fifth R11 / W11 | Bedroom | 4.65 | 4.26 | 0.39 | 8 | Yes | 43 | 43 | 0 | Yes | 11 | 11 | 0 | Yes | 6 | 6 | 0 | Yes |
| Fifth R12 / W12 | LKD | 3.54 | 3.23 | 0.31 | 9 | Yes | 33 | 33 | 0 | Yes | 9 | 9 | 0 | Yes | 4 | 4 | 0 | Yes |
| Sixth R1 / W1 | LKD | 14.21 | 12.69 | 1.52 | 11 | Yes | 99 | 99 | 0 | Yes | 21 | 20 | 5 | Yes | 20 | 19 | 5 | Yes |
| Sixth R2 / W2 | Bedroom | 14.45 | 12.82 | 1.63 | 11 | Yes | 100 | 100 | 0 | Yes | 21 | 20 | 5 | Yes | 20 | 19 | 5 | Yes |
| Sixth R3 / W3 | Bedroom | 14.46 | 12.75 | 1.71 | 12 | Yes | 100 | 100 | 0 | Yes | 21 | 20 | 5 | Yes | 20 | 19 | 5 | Yes |
| Sixth R4 / W4 | LKD | 14.46 | 12.61 | 1.85 | 13 | Yes | 98 | 98 | 0 | Yes | 21 | 20 | 5 | Yes | 20 | 19 | 5 | Yes |
| Sixth R5 / W5 | Bedroom | 14.37 | 12.51 | 1.86 | 13 | Yes | 100 | 100 | 0 | Yes | 21 | 20 | 5 | Yes | 20 | 19 | 5 | Yes |
| Sixth R6 / W6 | Bedroom | 12.79 | 11.45 | 1.34 | 10 | Yes | 99 | 99 | 0 | Yes | 18 | 18 | 0 | Yes | 17 | 17 | 0 | Yes |
| Sixth R7 / W7 | Bedroom | 35.27 | 33.59 | 1.68 | 5 | Yes | 100 | 100 | 0 | Yes | 63 | 63 | 0 | Yes | 20 | 20 | 0 | Yes |
| Sixth R8 / W8 | LKD | 30.74 | 29.51 | 1.23 | 4 | Yes | 97 | 89 | 9 | Yes | 61 | 61 | 0 | Yes | 22 | 22 | 0 | Yes |
| Sixth R9 / W9 | LKD | 23.13 | 22.29 | 0.84 | 4 | Yes | 91 | 83 | 9 | Yes | 50 | 50 | 0 | Yes | 20 | 20 | 0 | Yes |
| Sixth R10 / W10 | Bedroom | 16.30 | 15.70 | 0.60 | 4 | Yes | 100 | 100 | 0 | Yes | 35 | 35 | 0 | Yes | 16 | 16 | 0 | Yes |
| Sixth R11 / W11 | Bedroom | 11.05 | 10.64 | 0.41 | 4 | Yes | 98 | 98 | 0 | Yes | 21 | 21 | 0 | Yes | 12 | 12 | 0 | Yes |
| Sixth R12 / W12 | LKD | 7.04 | 6.75 | 0.29 | 4 | Yes | 54 | 54 | 0 | Yes | 13 | 13 | 0 | Yes | 9 | 9 | 0 | Yes |
| **Lochhead Bank Geoffrey Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 10.15 | 8.92 | 1.23 | 12 | Yes | 91 | 88 | 3 | Yes | 16 | 14 | 13 | Yes | 14 | 12 | 14 | Yes |
| First R2 / W2 | Bedroom | 9.90 | 8.72 | 1.18 | 12 | Yes | 86 | 85 | 0 | Yes | 17 | 15 | 12 | Yes | 14 | 12 | 14 | Yes |
| First R3 / W3 | Bedroom | 9.65 | 8.53 | 1.12 | 12 | Yes | 91 | 91 | 0 | Yes | 17 | 15 | 12 | Yes | 14 | 12 | 14 | Yes |
| First R4 / W4 | LKD | 9.30 | 8.28 | 1.02 | 11 | Yes | 93 | 90 | 2 | Yes | 15 | 14 | 7 | Yes | 12 | 11 | 8 | Yes |
| Second R1 / W1 | LKD | 11.91 | 10.50 | 1.41 | 12 | Yes | 98 | 97 | 1 | Yes | 21 | 17 | 19 | Yes | 18 | 14 | 22 | Yes |
| Second R2 / W2 | Bedroom | 11.62 | 10.26 | 1.36 | 12 | Yes | 97 | 97 | 0 | Yes | 21 | 17 | 19 | Yes | 18 | 14 | 22 | Yes |
| Second R3 / W3 | Bedroom | 11.41 | 10.10 | 1.31 | 11 | Yes | 100 | 100 | 0 | Yes | 20 | 17 | 15 | Yes | 17 | 14 | 18 | Yes |
| Second R4 / W4 | LKD | 11.23 | 9.91 | 1.32 | 12 | Yes | 99 | 99 | 0 | Yes | 20 | 17 | 15 | Yes | 17 | 14 | 18 | Yes |
| Third R1 / W1 | LKD | 13.37 | 11.77 | 1.60 | 12 | Yes | 99 | 98 | 1 | Yes | 24 | 20 | 17 | Yes | 22 | 18 | 18 | Yes |
| Third R2 / W2 | Bedroom | 13.26 | 11.71 | 1.55 | 12 | Yes | 100 | 100 | 0 | Yes | 25 | 20 | 20 | Yes | 22 | 17 | 23 | Yes |
| Third R3 / W3 | Bedroom | 13.10 | 11.59 | 1.51 | 12 | Yes | 100 | 100 | 0 | Yes | 25 | 20 | 20 | Yes | 22 | 17 | 23 | Yes |
| Third R4 / W4 | LKD | 12.81 | 11.42 | 1.39 | 11 | Yes | 99 | 99 | 0 | Yes | 22 | 18 | 18 | Yes | 19 | 15 | 21 | Yes |
| Fourth R1 / W1 | LKD | 15.01 | 12.98 | 2.03 | 14 | Yes | 99 | 99 | 0 | Yes | 25 | 21 | 16 | Yes | 22 | 18 | 18 | Yes |
| Fourth R2 / W2 | Bedroom | 14.84 | 12.79 | 2.05 | 14 | Yes | 100 | 100 | 0 | Yes | 25 | 21 | 16 | Yes | 22 | 18 | 18 | Yes |
| Fourth R3 / W3 | Bedroom | 14.74 | 12.67 | 2.07 | 14 | Yes | 100 | 100 | 0 | Yes | 25 | 21 | 16 | Yes | 22 | 18 | 18 | Yes |
| Fourth R4 / W4 | LKD | 14.66 | 12.54 | 2.12 | 14 | Yes | 99 | 99 | 0 | Yes | 26 | 20 | 23 | No | 23 | 17 | 26 | Yes |
| Fifth R1 / W1 | LKD | 16.15 | 13.79 | 2.36 | 15 | Yes | 99 | 99 | 0 | Yes | 25 | 24 | 4 | Yes | 23 | 22 | 4 | Yes |
| Fifth R2 / W2 | Bedroom | 16.19 | 13.75 | 2.44 | 15 | Yes | 100 | 100 | 0 | Yes | 26 | 24 | 8 | Yes | 23 | 21 | 9 | Yes |
| Fifth R3 / W3 | Bedroom | 16.13 | 13.63 | 2.50 | 15 | Yes | 100 | 100 | 0 | Yes | 26 | 24 | 8 | Yes | 23 | 21 | 9 | Yes |
| Fifth R4 / W4 | LKD | 15.92 | 13.47 | 2.45 | 15 | Yes | 99 | 99 | 0 | Yes | 25 | 24 | 4 | Yes | 22 | 21 | 5 | Yes |
| Sixth R1 / W1 | LKD | 38.29 | 35.80 | 2.49 | 7 | Yes | 99 | 99 | 0 | Yes | 86 | 85 | 1 | Yes | 30 | 29 | 3 | Yes |
| Sixth R2 / W2 | Bedroom | 38.25 | 35.66 | 2.59 | 7 | Yes | 100 | 100 | 0 | Yes | 86 | 85 | 1 | Yes | 30 | 29 | 3 | Yes |
| Sixth R3 / W3 | Bedroom | 38.24 | 35.53 | 2.71 | 7 | Yes | 100 | 100 | 0 | Yes | 86 | 85 | 1 | Yes | 30 | 29 | 3 | Yes |
| Sixth R4 / W4 | LKD | 38.19 | 35.37 | 2.82 | 7 | Yes | 99 | 99 | 0 | Yes | 86 | 85 | 1 | Yes | 30 | 29 | 3 | Yes |
| **Robinson Bank Geoffrey Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 10.19 | 7.97 | 2.22 | 22 | No | 94 | 87 | 7 | Yes | 20 | 16 | 20 | Yes | 19 | 15 | 21 | Yes |
| First R2 / W2 | Bedroom | 10.80 | 8.09 | 2.71 | 25 | No | 99 | 97 | 2 | Yes | 21 | 16 | 24 | No | 19 | 14 | 26 | Yes |
| First R3 / W3 | LKD | 11.01 | 7.99 | 3.02 | 27 | No | 97 | 90 | 7 | Yes | 22 | 16 | 27 | No | 20 | 14 | 30 | Yes |
| Second R1 / W1 | LKD | 11.48 | 9.19 | 2.29 | 20 | Yes | 99 | 94 | 4 | Yes | 22 | 17 | 23 | No | 21 | 16 | 24 | Yes |

**Daylight and Sunlight Parameter Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Second R2 / W2 | Bedroom | 11.93 | 9.36 | 2.57 | 22 | No | 100 | 100 | 0 | Yes | 22 | 17 | 23 | No | 21 | 16 | 24 | Yes |
| Second R3 / W3 | Bedroom | 12.13 | 9.34 | 2.79 | 23 | No | 100 | 100 | 0 | Yes | 24 | 19 | 21 | No | 22 | 17 | 23 | Yes |
| Second R4 / W4 | LKD | 12.17 | 9.20 | 2.97 | 24 | No | 98 | 94 | 5 | Yes | 22 | 18 | 18 | Yes | 20 | 16 | 20 | Yes |
| Third R1 / W1 | LKD | 12.76 | 10.16 | 2.60 | 20 | Yes | 99 | 96 | 3 | Yes | 24 | 19 | 21 | No | 23 | 18 | 22 | Yes |
| Third R2 / W2 | Bedroom | 13.22 | 10.37 | 2.85 | 22 | No | 100 | 100 | 0 | Yes | 23 | 18 | 22 | No | 22 | 17 | 23 | Yes |
| Third R3 / W3 | Bedroom | 13.43 | 10.37 | 3.06 | 23 | No | 100 | 100 | 0 | Yes | 25 | 20 | 20 | Yes | 23 | 18 | 22 | Yes |
| Third R4 / W4 | LKD | 13.68 | 10.34 | 3.34 | 24 | No | 98 | 95 | 3 | Yes | 26 | 20 | 23 | No | 24 | 18 | 25 | Yes |
| Fourth R1 / W1 | LKD | 14.02 | 11.09 | 2.93 | 21 | No | 99 | 97 | 1 | Yes | 25 | 20 | 20 | Yes | 24 | 19 | 21 | Yes |
| Fourth R2 / W2 | Bedroom | 14.50 | 11.34 | 3.16 | 22 | No | 100 | 100 | 0 | Yes | 25 | 20 | 20 | Yes | 24 | 19 | 21 | Yes |
| Fourth R3 / W3 | Bedroom | 14.70 | 11.36 | 3.34 | 23 | No | 100 | 100 | 0 | Yes | 26 | 21 | 19 | Yes | 24 | 19 | 21 | Yes |
| Fourth R4 / W4 | LKD | 14.71 | 11.23 | 3.48 | 24 | No | 98 | 96 | 2 | Yes | 25 | 20 | 20 | Yes | 23 | 18 | 22 | Yes |
| Fifth R1 / W1 | LKD | 32.72 | 29.52 | 3.20 | 10 | Yes | 99 | 99 | 0 | Yes | 74 | 71 | 4 | Yes | 28 | 25 | 11 | Yes |
| Fifth R2 / W2 | Bedroom | 33.05 | 29.65 | 3.40 | 10 | Yes | 100 | 100 | 0 | Yes | 75 | 71 | 5 | Yes | 28 | 24 | 14 | Yes |
| Fifth R3 / W3 | Bedroom | 33.25 | 29.70 | 3.55 | 11 | Yes | 100 | 100 | 0 | Yes | 77 | 72 | 6 | Yes | 30 | 25 | 17 | Yes |
| Fifth R4 / W4 | LKD | 33.60 | 29.83 | 3.77 | 11 | Yes | 99 | 99 | 0 | Yes | 81 | 75 | 7 | Yes | 30 | 24 | 20 | Yes |
| Sixth R1 / W1 | LKD | 5.73 | 3.25 | 2.48 | 43 | No | 100 | 100 | 0 | Yes | 6 | 5 | 17 | Yes | 6 | 5 | 17 | Yes |
| Sixth R2 / W2 | LKD | 6.01 | 2.78 | 3.23 | 54 | No | 100 | 100 | 0 | Yes | 7 | 6 | 14 | Yes | 7 | 6 | 14 | Yes |
| Seventh R1 / W1 | LKD | 17.71 | 14.66 | 3.05 | 17 | Yes | 99 | 99 | 0 | Yes | 28 | 27 | 4 | Yes | 26 | 25 | 4 | Yes |
| Seventh R2 / W2 | Bedroom | 17.95 | 14.74 | 3.21 | 18 | Yes | 100 | 100 | 0 | Yes | 28 | 27 | 4 | Yes | 26 | 25 | 4 | Yes |
| Seventh R3 / W3 | Bedroom | 17.95 | 14.61 | 3.34 | 19 | Yes | 100 | 100 | 0 | Yes | 28 | 27 | 4 | Yes | 26 | 25 | 4 | Yes |
| Seventh R4 / W4 | LKD | 17.72 | 14.32 | 3.40 | 19 | Yes | 99 | 99 | 0 | Yes | 27 | 26 | 4 | Yes | 25 | 24 | 4 | Yes |
| **Nethercott Bank Geoffrey Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 11.91 | 7.27 | 4.64 | 39 | No | 98 | 69 | 30 | No | 21 | 12 | 43 | No | 19 | 10 | 47 | Yes |
| First R2 / W2 | Bedroom | 11.93 | 7.07 | 4.86 | 41 | No | 98 | 67 | 32 | No | 21 | 12 | 43 | No | 19 | 10 | 47 | Yes |
| First R3 / W3 | LKD | 11.57 | 6.45 | 5.12 | 44 | No | 97 | 62 | 36 | No | 21 | 12 | 43 | No | 19 | 10 | 47 | Yes |
| Second R1 / W1 | LKD | 13.37 | 8.62 | 4.75 | 36 | No | 98 | 74 | 25 | No | 22 | 16 | 27 | No | 20 | 14 | 30 | Yes |
| Second R2 / W2 | Bedroom | 13.21 | 8.24 | 4.97 | 38 | No | 99 | 74 | 26 | No | 23 | 15 | 35 | No | 21 | 13 | 38 | Yes |
| Second R3 / W3 | Bedroom | 13.07 | 7.96 | 5.11 | 39 | No | 97 | 68 | 30 | No | 23 | 15 | 35 | No | 21 | 13 | 38 | Yes |
| Second R4 / W4 | LKD | 12.80 | 7.56 | 5.24 | 41 | No | 99 | 77 | 22 | No | 22 | 14 | 36 | No | 20 | 12 | 40 | Yes |
| Third R1 / W1 | LKD | 14.48 | 9.59 | 4.89 | 34 | No | 98 | 78 | 21 | No | 25 | 16 | 36 | No | 23 | 14 | 39 | Yes |
| Third R2 / W2 | Bedroom | 14.51 | 9.40 | 5.11 | 35 | No | 100 | 79 | 21 | No | 25 | 15 | 40 | No | 23 | 13 | 43 | Yes |
| Third R3 / W3 | Bedroom | 14.36 | 9.12 | 5.24 | 36 | No | 100 | 78 | 22 | No | 26 | 16 | 38 | No | 24 | 14 | 42 | Yes |
| Third R4 / W4 | LKD | 14.07 | 8.72 | 5.35 | 38 | No | 99 | 83 | 16 | Yes | 24 | 15 | 38 | No | 22 | 13 | 41 | Yes |
| Fourth R1 / W1 | LKD | 16.01 | 11.03 | 4.98 | 31 | No | 99 | 83 | 16 | Yes | 26 | 18 | 31 | No | 24 | 16 | 33 | Yes |
| Fourth R2 / W2 | Bedroom | 15.83 | 10.64 | 5.19 | 33 | No | 100 | 84 | 16 | Yes | 26 | 18 | 31 | No | 24 | 16 | 33 | Yes |
| Fourth R3 / W3 | Bedroom | 15.70 | 10.39 | 5.31 | 34 | No | 100 | 86 | 14 | Yes | 26 | 18 | 31 | No | 24 | 16 | 33 | Yes |
| Fourth R4 / W4 | LKD | 15.43 | 10.03 | 5.40 | 35 | No | 99 | 86 | 13 | Yes | 25 | 17 | 32 | No | 23 | 15 | 35 | Yes |
| Fifth R1 / W1 | LKD | 17.01 | 11.96 | 5.05 | 30 | No | 99 | 88 | 11 | Yes | 28 | 21 | 25 | No | 26 | 19 | 27 | Yes |
| Fifth R2 / W2 | Bedroom | 17.12 | 11.90 | 5.22 | 30 | No | 100 | 91 | 9 | Yes | 27 | 20 | 26 | No | 25 | 18 | 28 | Yes |
| Fifth R3 / W3 | Bedroom | 17.03 | 11.70 | 5.33 | 31 | No | 100 | 95 | 5 | Yes | 27 | 20 | 26 | No | 25 | 18 | 28 | Yes |
| Fifth R4 / W4 | LKD | 16.84 | 11.39 | 5.45 | 32 | No | 99 | 91 | 8 | Yes | 27 | 20 | 26 | No | 25 | 18 | 28 | Yes |
| Sixth R1 / W1 | LKD | 11.78 | 7.32 | 4.46 | 38 | No | 100 | 94 | 5 | Yes | 16 | 12 | 25 | Yes | 16 | 12 | 25 | Yes |
| Sixth R2 / W2 | LKD | 11.83 | 6.59 | 5.24 | 44 | No | 100 | 98 | 1 | Yes | 17 | 12 | 29 | No | 17 | 12 | 29 | Yes |
| Seventh R1 / W1 | LKD | 38.77 | 34.06 | 4.71 | 12 | Yes | 100 | 99 | 0 | Yes | 88 | 85 | 3 | Yes | 30 | 27 | 10 | Yes |
| Seventh R2 / W2 | Bedroom | 38.80 | 33.86 | 4.94 | 13 | Yes | 100 | 100 | 0 | Yes | 88 | 85 | 3 | Yes | 30 | 27 | 10 | Yes |
| Seventh R3 / W3 | Bedroom | 38.83 | 33.71 | 5.12 | 13 | Yes | 100 | 100 | 0 | Yes | 88 | 85 | 3 | Yes | 30 | 27 | 10 | Yes |
| Seventh R4 / W4 | LKD | 38.86 | 33.52 | 5.34 | 14 | Yes | 100 | 99 | 0 | Yes | 88 | 84 | 5 | Yes | 30 | 26 | 13 | Yes |
| **Gavin Bank Geoffrey Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 11.21 | 1.13 | 10.08 | 90 | No | 96 | 28 | 70 | No | 19 | 3 | 84 | No | 19 | 3 | 84 | No |
| First R2 / W2 | Bedroom | 11.31 | 0.93 | 10.38 | 92 | No | 92 | 24 | 74 | No | 19 | 3 | 84 | No | 19 | 3 | 84 | No |
| First R3 / W3 | Bedroom | 11.44 | 0.86 | 10.58 | 92 | No | 94 | 23 | 75 | No | 19 | 3 | 84 | No | 19 | 3 | 84 | No |

**Daylight and Sunlight Parameter Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| First R4 / W4 | LKD | 11.67 | 0.84 | 10.83 | 93 | No | 94 | 30 | 68 | No | 21 | 4 | 81 | No | 21 | 4 | 81 | No |
| Second R1 / W1 | LKD | 12.76 | 1.69 | 11.07 | 87 | No | 99 | 34 | 66 | No | 24 | 3 | 88 | No | 24 | 3 | 88 | No |
| Second R2 / W2 | Bedroom | 12.99 | 1.66 | 11.33 | 87 | No | 100 | 26 | 73 | No | 24 | 4 | 83 | No | 24 | 4 | 83 | No |
| Second R3 / W3 | Bedroom | 13.09 | 1.60 | 11.49 | 88 | No | 100 | 26 | 74 | No | 23 | 4 | 83 | No | 23 | 4 | 83 | No |
| Second R4 / W4 | LKD | 13.03 | 1.53 | 11.50 | 88 | No | 99 | 35 | 65 | No | 23 | 4 | 83 | No | 23 | 4 | 83 | No |
| Third R1 / W1 | LKD | 14.59 | 3.18 | 11.41 | 78 | No | 99 | 41 | 58 | No | 25 | 4 | 84 | No | 25 | 4 | 84 | No |
| Third R2 / W2 | Bedroom | 14.65 | 3.00 | 11.65 | 80 | No | 100 | 30 | 70 | No | 26 | 4 | 85 | No | 26 | 4 | 85 | No |
| Third R3 / W3 | Bedroom | 14.74 | 2.95 | 11.79 | 80 | No | 100 | 29 | 71 | No | 26 | 4 | 85 | No | 26 | 4 | 85 | No |
| Third R4 / W4 | LKD | 14.94 | 2.98 | 11.96 | 80 | No | 99 | 41 | 58 | No | 27 | 6 | 78 | No | 27 | 6 | 78 | Yes |
| Fourth R1 / W1 | LKD | 15.93 | 4.52 | 11.41 | 72 | No | 99 | 47 | 52 | No | 27 | 9 | 67 | No | 27 | 9 | 67 | Yes |
| Fourth R2 / W2 | Bedroom | 16.17 | 4.55 | 11.62 | 72 | No | 100 | 34 | 66 | No | 27 | 10 | 63 | No | 27 | 10 | 63 | Yes |
| Fourth R3 / W3 | Bedroom | 16.24 | 4.51 | 11.73 | 72 | No | 100 | 33 | 67 | No | 27 | 9 | 67 | No | 27 | 9 | 67 | Yes |
| Fourth R4 / W4 | LKD | 16.12 | 4.42 | 11.70 | 73 | No | 99 | 46 | 53 | No | 27 | 8 | 70 | No | 27 | 8 | 70 | Yes |
| Fifth R1 / W1 | LKD | 17.57 | 6.39 | 11.18 | 64 | No | 99 | 53 | 46 | No | 27 | 12 | 56 | No | 27 | 12 | 56 | Yes |
| Fifth R2 / W2 | Bedroom | 17.59 | 6.21 | 11.38 | 65 | No | 100 | 40 | 60 | No | 28 | 12 | 57 | No | 28 | 12 | 57 | Yes |
| Fifth R3 / W3 | Bedroom | 17.66 | 6.16 | 11.50 | 65 | No | 100 | 38 | 62 | No | 28 | 12 | 57 | No | 28 | 12 | 57 | Yes |
| Fifth R4 / W4 | LKD | 17.82 | 6.20 | 11.62 | 65 | No | 99 | 51 | 48 | No | 29 | 12 | 59 | No | 29 | 12 | 59 | Yes |
| Sixth R1 / W1 | LKD | 18.16 | 7.46 | 10.70 | 59 | No | 99 | 59 | 41 | No | 28 | 15 | 46 | No | 28 | 15 | 46 | Yes |
| Sixth R2 / W2 | Bedroom | 18.38 | 7.53 | 10.85 | 59 | No | 100 | 46 | 54 | No | 28 | 14 | 50 | No | 28 | 14 | 50 | Yes |
| Sixth R3 / W3 | Bedroom | 18.42 | 7.49 | 10.93 | 59 | No | 100 | 45 | 55 | No | 28 | 14 | 50 | No | 28 | 14 | 50 | Yes |
| Sixth R4 / W4 | LKD | 18.26 | 7.37 | 10.89 | 60 | No | 99 | 56 | 44 | No | 28 | 13 | 54 | No | 28 | 13 | 54 | Yes |
| **Block R1** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 5.63 | 4.01 | 1.62 | 29 | No | 97 | 97 | 0 | Yes | *North Facing* | | | | | | | |
| First R1 / W2 | | 31.40 | 18.86 | 12.54 | 40 | No | | | | | 76 | 50 | 34 | Yes | 23 | 0 | 100 | No |
| First R1 / W31 | | 30.97 | 18.48 | 12.49 | 40 | No | | | | | 73 | 50 | 32 | Yes | 22 | 1 | 95 | No |
| First R1 / W32 | | 24.03 | 13.77 | 10.26 | 43 | No | | | | | 53 | 35 | 34 | Yes | 17 | 1 | 94 | No |
| First R2 / W3 | Bedroom | 31.87 | 19.03 | 12.84 | 40 | No | 90 | 27 | 70 | No | 80 | 56 | 30 | Yes | 22 | 2 | 91 | No |
| First R3 / W4 | Bedroom | 31.97 | 19.13 | 12.84 | 40 | No | 84 | 23 | 72 | No | 80 | 57 | 29 | Yes | 22 | 2 | 91 | No |
| First R4 / W5 | LKD | 11.22 | 0.87 | 10.35 | 92 | No | 93 | 70 | 25 | No | 23 | 3 | 87 | No | 21 | 1 | 95 | No |
| First R4 / W6 | | 26.07 | 21.90 | 4.17 | 16 | Yes | | | | | 43 | 32 | 26 | Yes | 15 | 4 | 73 | No |
| First R5 / W7 | Bedroom | 7.38 | 6.00 | 1.38 | 19 | Yes | 78 | 53 | 33 | No | 13 | 11 | 15 | Yes | 5 | 3 | 40 | Yes |
| Second R1 / W1 | LKD | 6.21 | 4.30 | 1.91 | 31 | No | 97 | 97 | 0 | Yes | *North Facing* | | | | | | | |
| Second R1 / W2 | | 32.99 | 20.21 | 12.78 | 39 | No | | | | | 79 | 56 | 29 | Yes | 26 | 4 | 85 | No |
| Second R1 / W30 | | 32.54 | 19.83 | 12.71 | 39 | No | | | | | 77 | 54 | 30 | Yes | 26 | 4 | 85 | No |
| Second R1 / W31 | | 25.39 | 14.88 | 10.51 | 41 | No | | | | | 56 | 38 | 32 | Yes | 20 | 2 | 90 | No |
| Second R2 / W3 | Bedroom | 33.46 | 20.39 | 13.07 | 39 | No | 96 | 30 | 68 | No | 84 | 62 | 26 | Yes | 26 | 5 | 81 | Yes |
| Second R3 / W4 | Bedroom | 33.55 | 20.49 | 13.06 | 39 | No | 93 | 26 | 72 | No | 85 | 62 | 27 | Yes | 27 | 5 | 81 | Yes |
| Second R4 / W5 | LKD | 12.61 | 1.21 | 11.40 | 90 | No | 96 | 73 | 25 | No | 26 | 4 | 85 | No | 24 | 2 | 92 | No |
| Second R4 / W6 | | 28.11 | 24.01 | 4.10 | 15 | Yes | | | | | 44 | 35 | 20 | Yes | 15 | 6 | 60 | Yes |
| Second R5 / W7 | Bedroom | 8.14 | 6.75 | 1.39 | 17 | Yes | 79 | 54 | 31 | No | 13 | 11 | 15 | Yes | 5 | 3 | 40 | Yes |
| Third R1 / W1 | LKD | 7.51 | 5.35 | 2.16 | 29 | No | 97 | 97 | 0 | Yes | *North Facing* | | | | | | | |
| Third R1 / W2 | | 34.50 | 21.66 | 12.84 | 37 | No | | | | | 81 | 58 | 28 | Yes | 28 | 5 | 82 | Yes |
| Third R1 / W30 | | 34.03 | 21.26 | 12.77 | 38 | No | | | | | 78 | 56 | 28 | Yes | 27 | 5 | 81 | Yes |
| Third R1 / W31 | | 26.67 | 16.07 | 10.60 | 40 | No | | | | | 57 | 39 | 32 | Yes | 21 | 3 | 86 | No |
| Third R2 / W3 | Bedroom | 34.96 | 21.83 | 13.13 | 38 | No | 96 | 34 | 64 | No | 85 | 63 | 26 | Yes | 27 | 5 | 81 | Yes |
| Third R3 / W4 | Bedroom | 35.04 | 21.93 | 13.11 | 37 | No | 96 | 30 | 69 | No | 85 | 64 | 25 | Yes | 27 | 6 | 78 | Yes |
| Third R4 / W5 | LKD | 13.89 | 2.11 | 11.78 | 85 | No | 100 | 76 | 24 | No | 26 | 5 | 81 | No | 24 | 3 | 88 | No |
| Third R4 / W6 | | 30.26 | 26.33 | 3.93 | 13 | Yes | | | | | 45 | 36 | 20 | Yes | 15 | 6 | 60 | Yes |
| Third R5 / W7 | Bedroom | 9.15 | 7.78 | 1.37 | 15 | Yes | 79 | 57 | 29 | No | 14 | 12 | 14 | Yes | 5 | 3 | 40 | Yes |

**Daylight and Sunlight Parameter Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Fourth R1 / W1 | LKD | 10.13 | 7.76 | 2.37 | 23 | No | 98 | 98 | 0 | Yes | *North Facing* | | | | | | | |
| Fourth R1 / W2 | | 35.90 | 23.20 | 12.70 | 35 | No | | | | | 81 | 61 | 25 | Yes | 28 | 8 | 71 | Yes |
| Fourth R1 / W30 | | 35.42 | 22.79 | 12.63 | 36 | No | | | | | 79 | 59 | 25 | Yes | 28 | 8 | 71 | Yes |
| Fourth R1 / W31 | | 27.89 | 17.34 | 10.55 | 38 | No | | | | | 58 | 42 | 28 | Yes | 22 | 6 | 73 | Yes |
| Fourth R2 / W3 | Bedroom | 36.32 | 23.37 | 12.95 | 36 | No | 96 | 39 | 59 | No | 86 | 66 | 23 | Yes | 28 | 8 | 71 | Yes |
| Fourth R3 / W4 | Bedroom | 36.38 | 23.46 | 12.92 | 36 | No | 96 | 33 | 65 | No | 86 | 66 | 23 | Yes | 28 | 8 | 71 | Yes |
| Fourth R4 / W5 | LKD | 15.06 | 3.43 | 11.63 | 77 | No | 100 | 80 | 20 | Yes | 27 | 7 | 74 | No | 25 | 5 | 80 | Yes |
| Fourth R4 / W6 | | 32.49 | 28.77 | 3.72 | 11 | Yes | | | | | 47 | 40 | 15 | Yes | 15 | 8 | 47 | Yes |
| Fourth R5 / W7 | Bedroom | 10.63 | 9.29 | 1.34 | 13 | Yes | 81 | 61 | 25 | No | 14 | 13 | 7 | Yes | 5 | 4 | 20 | Yes |
| Fifth R1 / W1 | LKD | 12.94 | 10.41 | 2.53 | 20 | Yes | 98 | 98 | 0 | Yes | *North Facing* | | | | | | | |
| Fifth R1 / W2 | | 37.19 | 24.82 | 12.37 | 33 | No | | | | | 81 | 64 | 21 | Yes | 28 | 11 | 61 | Yes |
| Fifth R1 / W30 | | 36.69 | 24.40 | 12.29 | 33 | No | | | | | 79 | 62 | 22 | Yes | 28 | 11 | 61 | Yes |
| Fifth R1 / W31 | | 29.01 | 18.67 | 10.34 | 36 | No | | | | | 58 | 44 | 24 | Yes | 22 | 8 | 64 | Yes |
| Fifth R2 / W3 | Bedroom | 37.57 | 24.98 | 12.59 | 34 | No | 96 | 45 | 53 | No | 87 | 69 | 21 | Yes | 29 | 11 | 62 | Yes |
| Fifth R3 / W4 | Bedroom | 37.60 | 25.07 | 12.53 | 33 | No | 96 | 38 | 61 | No | 87 | 69 | 21 | Yes | 29 | 11 | 62 | Yes |
| Fifth R4 / W5 | LKD | 16.09 | 4.84 | 11.25 | 70 | No | 100 | 84 | 16 | Yes | 28 | 12 | 57 | No | 26 | 10 | 62 | Yes |
| Fifth R4 / W6 | | 34.68 | 31.26 | 3.42 | 10 | Yes | | | | | 49 | 42 | 14 | Yes | 15 | 8 | 47 | Yes |
| Fifth R5 / W7 | Bedroom | 13.15 | 11.84 | 1.31 | 10 | Yes | 84 | 67 | 20 | Yes | 22 | 21 | 5 | Yes | 7 | 6 | 14 | Yes |
| Sixth R1 / W1 | LKD | 15.57 | 12.94 | 2.63 | 17 | Yes | 100 | 100 | 0 | Yes | *North Facing* | | | | | | | |
| Sixth R1 / W2 | | 38.28 | 26.53 | 11.75 | 31 | No | | | | | 82 | 67 | 18 | Yes | 29 | 14 | 52 | Yes |
| Sixth R1 / W30 | | 37.77 | 26.11 | 11.66 | 31 | No | | | | | 80 | 65 | 19 | Yes | 29 | 14 | 52 | Yes |
| Sixth R1 / W31 | | 29.92 | 20.08 | 9.84 | 33 | No | | | | | 60 | 48 | 20 | Yes | 24 | 12 | 50 | Yes |
| Sixth R2 / W3 | Bedroom | 38.55 | 26.65 | 11.90 | 31 | No | 96 | 51 | 47 | No | 88 | 73 | 17 | Yes | 30 | 15 | 50 | Yes |
| Sixth R3 / W4 | Bedroom | 38.57 | 26.73 | 11.84 | 31 | No | 96 | 43 | 55 | No | 88 | 72 | 18 | Yes | 30 | 14 | 53 | Yes |
| Sixth R4 / W5 | LKD | 16.89 | 6.31 | 10.58 | 63 | No | 100 | 88 | 12 | Yes | 28 | 12 | 57 | No | 26 | 10 | 62 | Yes |
| Sixth R4 / W6 | | 36.56 | 33.46 | 3.10 | 8 | Yes | | | | | 50 | 43 | 14 | Yes | 15 | 8 | 47 | Yes |
| Sixth R5 / W7 | Bedroom | 18.80 | 17.44 | 1.36 | 7 | Yes | 93 | 77 | 17 | Yes | 32 | 30 | 6 | Yes | 10 | 8 | 20 | Yes |
| Seventh R1 / W1 | LKD | 17.13 | 14.56 | 2.57 | 15 | Yes | 100 | 100 | 0 | Yes | *North Facing* | | | | | | | |
| Seventh R1 / W2 | | 38.97 | 28.33 | 10.64 | 27 | Yes | | | | | 87 | 75 | 14 | Yes | 30 | 18 | 40 | Yes |
| Seventh R1 / W33 | | 38.59 | 28.04 | 10.55 | 27 | Yes | | | | | 82 | 70 | 15 | Yes | 30 | 18 | 40 | Yes |
| Seventh R1 / W34 | | 30.65 | 21.72 | 8.93 | 29 | No | | | | | 60 | 51 | 15 | Yes | 24 | 15 | 38 | Yes |
| Seventh R2 / W3 | Bedroom | 39.09 | 28.36 | 10.73 | 27 | Yes | 96 | 58 | 39 | No | 88 | 77 | 13 | Yes | 30 | 19 | 37 | Yes |
| Seventh R3 / W4 | Bedroom | 39.10 | 28.44 | 10.66 | 27 | Yes | 96 | 51 | 47 | No | 88 | 77 | 13 | Yes | 30 | 19 | 37 | Yes |
| Seventh R4 / W5 | LKD | 17.26 | 7.82 | 9.44 | 55 | No | 100 | 91 | 9 | Yes | 28 | 19 | 32 | No | 26 | 17 | 35 | Yes |
| Seventh R4 / W6 | | 38.06 | 35.27 | 2.79 | 7 | Yes | | | | | 51 | 48 | 6 | Yes | 15 | 12 | 20 | Yes |
| Eighth R1 / W1 | Bedroom | 35.84 | 32.52 | 3.32 | 9 | Yes | 99 | 99 | 0 | Yes | 81 | 80 | 1 | Yes | 26 | 25 | 4 | Yes |
| **Block R2** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 9.92 | 4.64 | 5.28 | 53 | No | 97 | 74 | 24 | No | 16 | 8 | 50 | No | 16 | 8 | 50 | Yes |
| First R1 / W30 | | 1.69 | 1.58 | 0.11 | 7 | Yes | | | | | *North Facing* | | | | | | | |
| First R2 / W2 | Bedroom | 24.23 | 18.35 | 5.88 | 24 | No | 97 | 74 | 24 | No | 50 | 41 | 18 | Yes | 19 | 10 | 47 | Yes |
| First R3 / W3 | Bedroom | 25.09 | 19.12 | 5.97 | 24 | No | 94 | 65 | 31 | No | 48 | 39 | 19 | Yes | 18 | 9 | 50 | Yes |
| First R4 / W4 | Bedroom | 25.46 | 19.59 | 5.87 | 23 | No | 90 | 55 | 39 | No | 48 | 38 | 21 | Yes | 18 | 8 | 56 | Yes |
| First R5 / W5 | Bedroom | 24.80 | 19.30 | 5.50 | 22 | No | 89 | 59 | 34 | No | 49 | 40 | 18 | Yes | 18 | 9 | 50 | Yes |
| First R6 / W6 | LKD | 10.28 | 5.41 | 4.87 | 47 | No | 100 | 94 | 6 | Yes | 16 | 8 | 50 | No | 16 | 8 | 50 | Yes |
| First R6 / W7 | | 4.80 | 4.58 | 0.22 | 5 | Yes | | | | | 11 | 9 | 18 | Yes | 4 | 2 | 50 | Yes |
| Second R1 / W1 | LKD | 10.48 | 5.28 | 5.20 | 50 | No | 100 | 81 | 18 | Yes | 16 | 9 | 44 | No | 16 | 9 | 44 | Yes |
| Second R1 / W30 | | 2.16 | 2.05 | 0.11 | 5 | Yes | | | | | *North Facing* | | | | | | | |
| Second R2 / W2 | Bedroom | 25.81 | 20.02 | 5.79 | 22 | No | 88 | 57 | 35 | No | 53 | 44 | 17 | Yes | 19 | 10 | 47 | Yes |
| Second R3 / W3 | Bedroom | 26.75 | 20.85 | 5.90 | 22 | No | 81 | 49 | 39 | No | 52 | 43 | 17 | Yes | 18 | 9 | 50 | Yes |
| Second R4 / W4 | Bedroom | 27.17 | 21.35 | 5.82 | 21 | No | 92 | 59 | 35 | No | 52 | 42 | 19 | Yes | 19 | 9 | 53 | Yes |
| Second R5 / W5 | Bedroom | 26.50 | 21.02 | 5.48 | 21 | No | 90 | 62 | 31 | No | 52 | 42 | 19 | Yes | 20 | 10 | 50 | Yes |

**Daylight and Sunlight Parameter Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Second R6 / W6 | LKD | 10.97 | 6.12 | 4.85 | 44 | No | 100 | 95 | 5 | Yes | 17 | 8 | 53 | No | 17 | 8 | 53 | Yes |
| Second R6 / W7 | | 6.09 | 5.88 | 0.21 | 3 | Yes | | | | | 12 | 10 | 17 | Yes | 4 | 2 | 50 | Yes |
| Third R1 / W1 | LKD | 11.06 | 6.03 | 5.03 | 45 | No | 100 | 83 | 16 | Yes | 16 | 9 | 44 | No | 16 | 9 | 44 | Yes |
| Third R1 / W30 | | 2.87 | 2.76 | 0.11 | 4 | Yes | | | | | *North Facing* | | | | | | | |
| Third R2 / W2 | Bedroom | 27.54 | 21.89 | 5.65 | 21 | No | 89 | 61 | 32 | No | 58 | 50 | 14 | Yes | 19 | 11 | 42 | Yes |
| Third R3 / W3 | Bedroom | 28.55 | 22.79 | 5.76 | 20 | Yes | 82 | 52 | 37 | No | 57 | 49 | 14 | Yes | 18 | 10 | 44 | Yes |
| Third R4 / W4 | Bedroom | 29.03 | 23.31 | 5.72 | 20 | Yes | 93 | 65 | 31 | No | 59 | 50 | 15 | Yes | 19 | 10 | 47 | Yes |
| Third R5 / W5 | Bedroom | 28.39 | 22.97 | 5.42 | 19 | Yes | 91 | 66 | 27 | No | 57 | 49 | 14 | Yes | 20 | 12 | 40 | Yes |
| Third R6 / W6 | LKD | 11.72 | 6.91 | 4.81 | 41 | No | 100 | 96 | 4 | Yes | 18 | 11 | 39 | No | 18 | 11 | 39 | Yes |
| Third R6 / W7 | | 7.98 | 7.78 | 0.20 | 3 | Yes | | | | | 16 | 14 | 13 | Yes | 5 | 3 | 40 | Yes |
| Fourth R1 / W1 | LKD | 11.82 | 6.98 | 4.84 | 41 | No | 100 | 85 | 15 | Yes | 17 | 12 | 29 | No | 17 | 12 | 29 | Yes |
| Fourth R1 / W32 | | 3.98 | 3.88 | 0.10 | 3 | Yes | | | | | *North Facing* | | | | | | | |
| Fourth R2 / W2 | Bedroom | 29.47 | 24.02 | 5.45 | 18 | Yes | 91 | 65 | 28 | No | 62 | 56 | 10 | Yes | 20 | 14 | 30 | Yes |
| Fourth R3 / W3 | Bedroom | 30.51 | 24.93 | 5.58 | 18 | Yes | 83 | 56 | 33 | No | 64 | 58 | 9 | Yes | 20 | 14 | 30 | Yes |
| Fourth R4 / W4 | Bedroom | 31.03 | 25.48 | 5.55 | 18 | Yes | 95 | 71 | 26 | No | 65 | 57 | 12 | Yes | 20 | 12 | 40 | Yes |
| Fourth R5 / W5 | Bedroom | 30.43 | 25.16 | 5.27 | 17 | Yes | 93 | 72 | 22 | No | 62 | 56 | 10 | Yes | 20 | 14 | 30 | Yes |
| Fourth R6 / W6 | LKD | 12.57 | 7.90 | 4.67 | 37 | No | 100 | 97 | 3 | Yes | 21 | 13 | 38 | No | 21 | 13 | 38 | Yes |
| Fourth R6 / W7 | | 10.83 | 10.64 | 0.19 | 2 | Yes | | | | | 18 | 17 | 6 | Yes | 5 | 4 | 20 | Yes |
| Fifth R1 / W1 | LKD | 12.82 | 8.23 | 4.59 | 36 | No | 100 | 86 | 14 | Yes | 18 | 14 | 22 | Yes | 18 | 14 | 22 | Yes |
| Fifth R1 / W30 | | 5.82 | 5.71 | 0.11 | 2 | Yes | | | | | *North Facing* | | | | | | | |
| Fifth R2 / W2 | Bedroom | 31.49 | 26.30 | 5.19 | 16 | Yes | 94 | 74 | 22 | No | 66 | 60 | 9 | Yes | 20 | 14 | 30 | Yes |
| Fifth R3 / W3 | Bedroom | 32.49 | 27.16 | 5.33 | 16 | Yes | 87 | 63 | 27 | No | 69 | 63 | 9 | Yes | 21 | 15 | 29 | Yes |
| Fifth R4 / W4 | Bedroom | 33.02 | 27.68 | 5.34 | 16 | Yes | 96 | 76 | 21 | No | 71 | 63 | 11 | Yes | 23 | 15 | 35 | Yes |
| Fifth R5 / W5 | Bedroom | 32.54 | 27.46 | 5.08 | 16 | Yes | 96 | 79 | 17 | Yes | 70 | 63 | 10 | Yes | 21 | 14 | 33 | Yes |
| Fifth R6 / W6 | LKD | 13.61 | 9.10 | 4.51 | 33 | No | 100 | 97 | 2 | Yes | 21 | 14 | 33 | No | 21 | 14 | 33 | Yes |
| Fifth R6 / W7 | | 15.21 | 15.02 | 0.19 | 1 | Yes | | | | | 22 | 21 | 5 | Yes | 7 | 6 | 14 | Yes |
| Sixth R1 / W1 | LKD | 9.61 | 5.29 | 4.32 | 45 | No | 100 | 86 | 14 | Yes | 11 | 7 | 36 | Yes | 11 | 7 | 36 | Yes |
| Sixth R1 / W30 | | 9.03 | 8.90 | 0.13 | 1 | Yes | | | | | *North Facing* | | | | | | | |
| Sixth R2 / W2 | Bedroom | 29.94 | 25.00 | 4.94 | 16 | Yes | 96 | 80 | 16 | Yes | 67 | 62 | 7 | Yes | 23 | 18 | 22 | Yes |
| Sixth R3 / W3 | Bedroom | 30.77 | 25.67 | 5.10 | 17 | Yes | 92 | 74 | 20 | Yes | 69 | 64 | 7 | Yes | 24 | 19 | 21 | Yes |
| Sixth R4 / W4 | Bedroom | 31.23 | 26.10 | 5.13 | 16 | Yes | 96 | 82 | 15 | Yes | 69 | 63 | 9 | Yes | 24 | 18 | 25 | Yes |
| Sixth R5 / W5 | Bedroom | 30.94 | 26.04 | 4.90 | 16 | Yes | 97 | 85 | 12 | Yes | 70 | 66 | 6 | Yes | 24 | 20 | 17 | Yes |
| Sixth R6 / W6 | LKD | 10.19 | 5.90 | 4.29 | 42 | No | 100 | 98 | 2 | Yes | 13 | 8 | 38 | No | 13 | 8 | 38 | Yes |
| Sixth R6 / W7 | | 21.81 | 21.61 | 0.20 | 1 | Yes | | | | | 30 | 28 | 7 | Yes | 8 | 6 | 25 | Yes |
| **Richard Hawthorn** | | | | | | | | | | | | | | | | | | |
| First R1 / W3 | LKD | 33.75 | 21.13 | 12.62 | 37 | No | 100 | 100 | 0 | Yes | 85 | 59 | 31 | Yes | 27 | 3 | 89 | No |
| First R1 / W2 | | 33.66 | 21.32 | 12.34 | 37 | No | | | | | 85 | 61 | 28 | Yes | 27 | 5 | 81 | Yes |
| First R1 / W1 | | 9.29 | 6.60 | 2.69 | 29 | No | | | | | *North Facing* | | | | | | | |
| First R2 / W6 | LKD | 14.09 | 8.82 | 5.27 | 37 | No | 98 | 98 | 0 | Yes | 23 | 12 | 48 | No | 11 | 0 | 100 | No |
| First R2 / W5 | | 34.11 | 20.28 | 13.83 | 41 | No | | | | | 84 | 59 | 30 | Yes | 26 | 2 | 92 | No |
| First R2 / W4 | | 34.01 | 20.50 | 13.51 | 40 | No | | | | | 84 | 58 | 31 | Yes | 26 | 2 | 92 | No |
| First R3 / W7 | LKD | 8.25 | 6.33 | 1.92 | 23 | No | 72 | 23 | 69 | No | 13 | 11 | 15 | Yes | 5 | 3 | 40 | Yes |
| First R3 / W8 | | 10.99 | 10.99 | 0.00 | 0 | Yes | | | | | *North Facing* | | | | | | | |
| Second R1 / W3 | LKD | 35.25 | 22.50 | 12.75 | 36 | No | 100 | 100 | 0 | Yes | 85 | 60 | 29 | Yes | 27 | 3 | 89 | No |
| Second R1 / W2 | | 35.17 | 22.68 | 12.49 | 36 | No | | | | | 85 | 62 | 27 | Yes | 27 | 5 | 81 | Yes |
| Second R1 / W1 | | 10.82 | 7.93 | 2.89 | 27 | No | | | | | *North Facing* | | | | | | | |
| Second R2 / W6 | LKD | 15.51 | 10.23 | 5.28 | 34 | No | 98 | 98 | 0 | Yes | 24 | 14 | 42 | No | 11 | 1 | 91 | No |
| Second R2 / W5 | | 35.55 | 21.69 | 13.86 | 39 | No | | | | | 85 | 61 | 28 | Yes | 27 | 3 | 89 | No |
| Second R2 / W4 | | 35.47 | 21.90 | 13.57 | 38 | No | | | | | 85 | 61 | 28 | Yes | 27 | 3 | 89 | No |
| Second R3 / W7 | LKD | 9.22 | 7.35 | 1.87 | 20 | Yes | 88 | 26 | 70 | No | 14 | 12 | 14 | Yes | 5 | 3 | 40 | Yes |
| Second R3 / W8 | | 13.19 | 13.19 | 0.00 | 0 | Yes | | | | | *North Facing* | | | | | | | |

**Daylight and Sunlight Parameter Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Third R1 / W3 | LKD | 36.53 | 23.95 | 12.58 | 34 | No | 100 | 100 | 0 | Yes | 87 | 66 | 24 | Yes | 29 | 8 | 72 | Yes |
| Third R1 / W2 | | 36.47 | 24.12 | 12.35 | 34 | No | | | | | 87 | 68 | 22 | Yes | 29 | 10 | 66 | Yes |
| Third R1 / W1 | | 12.41 | 9.36 | 3.05 | 25 | No | | | | | *North Facing* | | | | | | | |
| Third R2 / W6 | LKD | 16.82 | 11.67 | 5.15 | 31 | No | 98 | 98 | 0 | Yes | 26 | 17 | 35 | No | 11 | 2 | 82 | No |
| Third R2 / W5 | | 36.80 | 23.19 | 13.61 | 37 | No | | | | | 87 | 65 | 25 | Yes | 29 | 7 | 76 | Yes |
| Third R2 / W4 | | 36.72 | 23.39 | 13.33 | 36 | No | | | | | 87 | 65 | 25 | Yes | 29 | 7 | 76 | Yes |
| Third R3 / W7 | LKD | 10.72 | 8.93 | 1.79 | 17 | Yes | 90 | 32 | 65 | No | 14 | 12 | 14 | Yes | 5 | 3 | 40 | Yes |
| Third R3 / W8 | | 16.07 | 16.07 | 0.00 | 0 | Yes | | | | | *North Facing* | | | | | | | |
| Fourth R1 / W3 | LKD | 37.64 | 25.48 | 12.16 | 32 | No | 100 | 100 | 0 | Yes | 88 | 68 | 23 | Yes | 30 | 10 | 67 | Yes |
| Fourth R1 / W2 | | 37.59 | 25.63 | 11.96 | 32 | No | | | | | 88 | 70 | 20 | Yes | 30 | 12 | 60 | Yes |
| Fourth R1 / W1 | | 13.96 | 10.84 | 3.12 | 22 | No | | | | | *North Facing* | | | | | | | |
| Fourth R2 / W6 | LKD | 18.03 | 13.11 | 4.92 | 27 | No | 99 | 99 | 0 | Yes | 27 | 18 | 33 | No | 11 | 2 | 82 | No |
| Fourth R2 / W5 | | 37.83 | 24.77 | 13.06 | 35 | No | | | | | 88 | 67 | 24 | Yes | 30 | 9 | 70 | Yes |
| Fourth R2 / W4 | | 37.77 | 24.95 | 12.82 | 34 | No | | | | | 88 | 67 | 24 | Yes | 30 | 9 | 70 | Yes |
| Fourth R3 / W7 | LKD | 13.56 | 11.87 | 1.69 | 12 | Yes | 92 | 40 | 57 | No | 23 | 22 | 4 | Yes | 7 | 6 | 14 | Yes |
| Fourth R3 / W8 | | 19.80 | 19.80 | 0.00 | 0 | Yes | | | | | *North Facing* | | | | | | | |
| Fifth R1 / W3 | LKD | 38.51 | 27.05 | 11.46 | 30 | Yes | 100 | 100 | 0 | Yes | 88 | 71 | 19 | Yes | 30 | 13 | 57 | Yes |
| Fifth R1 / W2 | | 38.48 | 27.19 | 11.29 | 29 | Yes | | | | | 88 | 73 | 17 | Yes | 30 | 15 | 50 | Yes |
| Fifth R1 / W1 | | 15.42 | 12.33 | 3.09 | 20 | Yes | | | | | *North Facing* | | | | | | | |
| Fifth R2 / W6 | LKD | 19.06 | 14.50 | 4.56 | 24 | No | 100 | 100 | 0 | Yes | 28 | 20 | 29 | No | 11 | 3 | 73 | No |
| Fifth R2 / W5 | | 38.62 | 26.40 | 12.22 | 32 | No | | | | | 88 | 69 | 22 | Yes | 30 | 11 | 63 | Yes |
| Fifth R2 / W4 | | 38.59 | 26.57 | 12.02 | 31 | No | | | | | 88 | 69 | 22 | Yes | 30 | 11 | 63 | Yes |
| Fifth R3 / W7 | LKD | 21.19 | 19.49 | 1.70 | 8 | Yes | 95 | 54 | 43 | No | 40 | 38 | 5 | Yes | 12 | 10 | 17 | Yes |
| Fifth R3 / W8 | | 24.44 | 24.44 | 0.00 | 0 | Yes | | | | | *North Facing* | | | | | | | |
| Sixth R1 / W3 | LKD | 38.99 | 28.67 | 10.32 | 26 | Yes | 100 | 100 | 0 | Yes | 88 | 73 | 17 | Yes | 30 | 15 | 50 | Yes |
| Sixth R1 / W2 | | 38.99 | 28.80 | 10.19 | 26 | Yes | | | | | 88 | 75 | 15 | Yes | 30 | 17 | 43 | Yes |
| Sixth R1 / W1 | | 16.76 | 13.86 | 2.90 | 17 | Yes | | | | | *North Facing* | | | | | | | |
| Sixth R2 / W6 | LKD | 19.86 | 15.86 | 4.00 | 20 | Yes | 100 | 100 | 0 | Yes | 28 | 21 | 25 | No | 11 | 4 | 64 | No |
| Sixth R2 / W5 | | 39.01 | 28.09 | 10.92 | 28 | Yes | | | | | 88 | 71 | 19 | Yes | 30 | 13 | 57 | Yes |
| Sixth R2 / W4 | | 39.00 | 28.24 | 10.76 | 28 | Yes | | | | | 88 | 71 | 19 | Yes | 30 | 13 | 57 | Yes |
| Seventh R1 / W3 | LKD | 39.17 | 30.31 | 8.86 | 23 | Yes | 100 | 100 | 0 | Yes | 88 | 76 | 14 | Yes | 30 | 18 | 40 | Yes |
| Seventh R1 / W2 | | 39.17 | 30.42 | 8.75 | 22 | Yes | | | | | 88 | 77 | 13 | Yes | 30 | 19 | 37 | Yes |
| Seventh R1 / W1 | | 35.19 | 32.67 | 2.52 | 7 | Yes | | | | | *North Facing* | | | | | | | |
| Seventh R2 / W6 | LKD | 36.53 | 33.10 | 3.43 | 9 | Yes | 100 | 100 | 0 | Yes | 52 | 47 | 10 | Yes | 15 | 10 | 33 | Yes |
| Seventh R2 / W5 | | 39.18 | 29.81 | 9.37 | 24 | Yes | | | | | 88 | 76 | 14 | Yes | 30 | 18 | 40 | Yes |
| Seventh R2 / W4 | | 39.17 | 29.94 | 9.23 | 24 | Yes | | | | | 88 | 75 | 15 | Yes | 30 | 17 | 43 | Yes |
| Seventh R3 / W7 | LKD | 37.07 | 33.02 | 4.05 | 11 | Yes | 100 | 99 | 1 | Yes | 85 | 82 | 4 | Yes | 27 | 24 | 11 | Yes |
| Seventh R3 / W8 | | 34.67 | 34.67 | 0.00 | 0 | Yes | | | | | *North Facing* | | | | | | | |
| **Solace Geoffrey Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W2 | LKD | 12.71 | 5.92 | 6.79 | 53 | No | 100 | 29 | 71 | No | 22 | 11 | 50 | No | 17 | 6 | 65 | Yes |
| First R1 / W1 | | 2.25 | 2.08 | 0.17 | 8 | Yes | | | | | *North Facing* | | | | | | | |
| First R2 / W3 | Bedroom | 26.43 | 19.17 | 7.26 | 27 | No | 98 | 37 | 62 | No | 55 | 45 | 18 | Yes | 19 | 9 | 53 | Yes |
| First R3 / W4 | Bedroom | 27.20 | 20.01 | 7.19 | 26 | No | 96 | 36 | 63 | No | 55 | 45 | 18 | Yes | 18 | 8 | 56 | Yes |
| First R4 / W5 | Bedroom | 27.55 | 20.54 | 7.01 | 25 | No | 94 | 34 | 64 | No | 56 | 46 | 18 | Yes | 19 | 9 | 53 | Yes |
| First R5 / W6 | Bedroom | 26.91 | 20.28 | 6.63 | 25 | No | 92 | 31 | 67 | No | 56 | 45 | 20 | Yes | 20 | 9 | 55 | Yes |
| First R6 / W7 | LKD | 12.05 | 6.36 | 5.69 | 47 | No | 100 | 40 | 60 | No | 22 | 13 | 41 | No | 17 | 8 | 53 | Yes |
| First R6 / W8 | | 15.36 | 15.24 | 0.12 | 1 | Yes | | | | | 16 | 15 | 6 | Yes | 3 | 2 | 33 | Yes |
| Second R1 / W2 | LKD | 13.27 | 6.67 | 6.60 | 50 | No | 100 | 33 | 67 | No | 23 | 13 | 43 | No | 17 | 7 | 59 | Yes |
| Second R1 / W1 | | 3.00 | 2.83 | 0.17 | 6 | Yes | | | | | *North Facing* | | | | | | | |
| Second R2 / W3 | Bedroom | 28.17 | 21.03 | 7.14 | 25 | No | 93 | 40 | 56 | No | 60 | 50 | 17 | Yes | 20 | 10 | 50 | Yes |
| Second R3 / W4 | Bedroom | 29.28 | 22.21 | 7.07 | 24 | No | 94 | 39 | 59 | No | 61 | 52 | 15 | Yes | 20 | 11 | 45 | Yes |
| Second R4 / W5 | Bedroom | 29.58 | 22.68 | 6.90 | 23 | No | 95 | 39 | 59 | No | 62 | 52 | 16 | Yes | 19 | 9 | 53 | Yes |

**Daylight and Sunlight Parameter Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Second R5 / W6 | Bedroom | 29.11 | 22.59 | 6.52 | 22 | No | 96 | 37 | 61 | No | 62 | 52 | 16 | Yes | 20 | 10 | 50 | Yes |
| Second R6 / W7 | LKD | 11.65 | 6.06 | 5.59 | 48 | No | 100 | 45 | 55 | No | 20 | 10 | 50 | No | 20 | 10 | 50 | Yes |
| Second R6 / W8 | | 18.88 | 18.70 | 0.18 | 1 | Yes | | | | | 24 | 23 | 4 | Yes | 5 | 4 | 20 | Yes |
| Third R1 / W2 | LKD | 14.02 | 7.68 | 6.34 | 45 | No | 100 | 37 | 63 | No | 25 | 17 | 32 | No | 19 | 11 | 42 | Yes |
| Third R1 / W1 | | 4.22 | 4.05 | 0.17 | 4 | Yes | | | | | *North Facing* | | | | | | | |
| Third R2 / W3 | Bedroom | 30.02 | 23.04 | 6.98 | 23 | No | 94 | 45 | 52 | No | 63 | 55 | 13 | Yes | 20 | 12 | 40 | Yes |
| Third R3 / W4 | Bedroom | 31.24 | 24.24 | 7.00 | 22 | No | 95 | 44 | 54 | No | 67 | 59 | 12 | Yes | 21 | 13 | 38 | Yes |
| Third R4 / W5 | Bedroom | 31.68 | 24.74 | 6.94 | 22 | No | 96 | 44 | 54 | No | 69 | 60 | 13 | Yes | 22 | 13 | 41 | Yes |
| Third R5 / W6 | Bedroom | 31.41 | 24.75 | 6.66 | 21 | No | 97 | 44 | 55 | No | 67 | 59 | 12 | Yes | 21 | 13 | 38 | Yes |
| Third R6 / W7 | LKD | 13.16 | 7.26 | 5.90 | 45 | No | 100 | 55 | 45 | No | 21 | 13 | 38 | No | 21 | 13 | 38 | Yes |
| Third R6 / W8 | | 23.25 | 22.90 | 0.35 | 2 | Yes | | | | | 29 | 26 | 10 | Yes | 8 | 5 | 38 | Yes |
| Fourth R1 / W2 | LKD | 14.93 | 8.96 | 5.97 | 40 | No | 100 | 44 | 55 | No | 25 | 18 | 28 | No | 19 | 12 | 37 | Yes |
| Fourth R1 / W1 | | 6.36 | 6.20 | 0.16 | 3 | Yes | | | | | *North Facing* | | | | | | | |
| Fourth R2 / W3 | Bedroom | 31.91 | 25.20 | 6.71 | 21 | No | 96 | 52 | 46 | No | 68 | 60 | 12 | Yes | 20 | 12 | 40 | Yes |
| Fourth R3 / W4 | Bedroom | 33.15 | 26.29 | 6.86 | 21 | No | 96 | 51 | 47 | No | 70 | 62 | 11 | Yes | 21 | 13 | 38 | Yes |
| Fourth R4 / W5 | Bedroom | 33.69 | 26.77 | 6.92 | 21 | No | 97 | 50 | 48 | No | 74 | 66 | 11 | Yes | 24 | 16 | 33 | Yes |
| Fourth R5 / W6 | Bedroom | 33.68 | 26.84 | 6.84 | 20 | Yes | 97 | 50 | 49 | No | 74 | 65 | 12 | Yes | 24 | 15 | 38 | Yes |
| Fourth R6 / W7 | LKD | 14.71 | 8.42 | 6.29 | 43 | No | 100 | 66 | 34 | No | 22 | 13 | 41 | No | 22 | 13 | 41 | Yes |
| Fourth R6 / W8 | | 28.35 | 27.81 | 0.54 | 2 | Yes | | | | | 39 | 36 | 8 | Yes | 10 | 7 | 30 | Yes |
| Fifth R1 / W2 | LKD | 10.09 | 4.54 | 5.55 | 55 | No | 100 | 51 | 49 | No | 14 | 9 | 36 | No | 14 | 9 | 36 | Yes |
| Fifth R1 / W1 | | 10.33 | 10.16 | 0.17 | 2 | Yes | | | | | *North Facing* | | | | | | | |
| Fifth R2 / W3 | Bedroom | 29.43 | 23.02 | 6.41 | 22 | No | 97 | 60 | 38 | No | 65 | 59 | 9 | Yes | 22 | 16 | 27 | Yes |
| Fifth R3 / W4 | Bedroom | 30.47 | 23.86 | 6.61 | 22 | No | 96 | 58 | 40 | No | 70 | 64 | 9 | Yes | 25 | 19 | 24 | Yes |
| Fifth R4 / W5 | Bedroom | 30.98 | 24.24 | 6.74 | 22 | No | 97 | 57 | 41 | No | 70 | 64 | 9 | Yes | 25 | 19 | 24 | Yes |
| Fifth R5 / W6 | Bedroom | 31.13 | 24.35 | 6.78 | 22 | No | 97 | 57 | 41 | No | 71 | 64 | 10 | Yes | 25 | 18 | 28 | Yes |
| Fifth R6 / W7 | LKD | 11.67 | 5.32 | 6.35 | 54 | No | 100 | 87 | 13 | Yes | 17 | 9 | 47 | No | 17 | 9 | 47 | Yes |
| Fifth R6 / W8 | | 33.58 | 32.85 | 0.73 | 2 | Yes | | | | | 45 | 43 | 4 | Yes | 12 | 10 | 17 | Yes |
| **Patricia Hollis House Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 26.00 | 22.23 | 3.77 | 15 | Yes | 99 | 49 | 51 | No | *North Facing* | | | | | | | |
| First R1 / W2 | | 15.41 | 1.02 | 14.39 | 93 | No | | | | | 24 | 1 | 96 | No | 23 | 0 | 100 | No |
| First R2 / W3 | Bedroom | 35.59 | 19.00 | 16.59 | 47 | No | 98 | 25 | 74 | No | 85 | 57 | 33 | Yes | 27 | 0 | 100 | No |
| First R3 / W4 | Bedroom | 35.66 | 18.95 | 16.71 | 47 | No | 97 | 23 | 76 | No | 85 | 57 | 33 | Yes | 27 | 0 | 100 | No |
| First R4 / W5 | LKD | 14.82 | 0.89 | 13.93 | 94 | No | 99 | 10 | 89 | No | 24 | 2 | 92 | No | 22 | 0 | 100 | No |
| First R5 / W6 | Bedroom | 35.79 | 18.78 | 17.01 | 48 | No | 97 | 24 | 75 | No | 85 | 58 | 32 | Yes | 27 | 1 | 96 | No |
| First R6 / W7 | Bedroom | 35.86 | 18.73 | 17.13 | 48 | No | 96 | 19 | 80 | No | 85 | 58 | 32 | Yes | 27 | 1 | 96 | No |
| First R7 / W8 | Bedroom | 35.93 | 18.70 | 17.23 | 48 | No | 96 | 23 | 76 | No | 85 | 58 | 32 | Yes | 27 | 1 | 96 | No |
| First R8 / W9 | Bedroom | 35.99 | 18.65 | 17.34 | 48 | No | 97 | 23 | 76 | No | 85 | 57 | 33 | Yes | 27 | 0 | 100 | No |
| First R9 / W10 | LKD | 16.42 | 0.65 | 15.77 | 96 | No | 100 | 73 | 27 | No | 29 | 2 | 93 | No | 26 | 0 | 100 | No |
| First R9 / W11 | | 37.88 | 31.97 | 5.91 | 16 | Yes | | | | | 49 | 34 | 31 | Yes | 15 | 0 | 100 | No |
| Second R1 / W1 | LKD | 28.36 | 24.65 | 3.71 | 13 | Yes | 99 | 57 | 42 | No | *North Facing* | | | | | | | |
| Second R1 / W3 | | 16.39 | 2.29 | 14.10 | 86 | No | | | | | 25 | 1 | 96 | No | 24 | 0 | 100 | No |
| Second R2 / W4 | Bedroom | 36.69 | 20.47 | 16.22 | 44 | No | 98 | 28 | 71 | No | 86 | 57 | 34 | Yes | 28 | 0 | 100 | No |
| Second R3 / W5 | Bedroom | 36.75 | 20.42 | 16.33 | 44 | No | 97 | 27 | 72 | No | 86 | 57 | 34 | Yes | 28 | 0 | 100 | No |
| Second R4 / W6 | LKD | 15.68 | 2.07 | 13.61 | 87 | No | 99 | 14 | 86 | No | 24 | 2 | 92 | No | 22 | 0 | 100 | No |
| Second R5 / W7 | Bedroom | 36.86 | 20.25 | 16.61 | 45 | No | 97 | 27 | 72 | No | 85 | 58 | 32 | Yes | 27 | 1 | 96 | No |
| Second R6 / W8 | Bedroom | 36.91 | 20.19 | 16.72 | 45 | No | 96 | 22 | 77 | No | 86 | 58 | 33 | Yes | 28 | 1 | 96 | No |
| Second R7 / W9 | Bedroom | 36.97 | 20.16 | 16.81 | 45 | No | 96 | 26 | 73 | No | 86 | 58 | 33 | Yes | 28 | 1 | 96 | No |
| Second R8 / W10 | Bedroom | 37.02 | 20.11 | 16.91 | 46 | No | 97 | 26 | 73 | No | 87 | 58 | 33 | Yes | 29 | 1 | 97 | No |
| Second R9 / W11 | LKD | 17.30 | 1.75 | 15.55 | 90 | No | 100 | 76 | 24 | No | 30 | 2 | 93 | No | 27 | 0 | 100 | No |
| Second R9 / W12 | | 38.68 | 32.99 | 5.69 | 15 | Yes | | | | | 50 | 36 | 28 | Yes | 15 | 1 | 93 | No |
| Third R1 / W1 | LKD | 30.79 | 27.17 | 3.62 | 12 | Yes | 99 | 70 | 29 | No | *North Facing* | | | | | | | |
| Third R1 / W2 | | 17.22 | 3.68 | 13.54 | 79 | No | | | | | 27 | 6 | 78 | No | 26 | 5 | 81 | Yes |

**Daylight and Sunlight Parameter Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Third R2 / W3 | Bedroom | 37.58 | 22.02 | 15.56 | 41 | No | 98 | 32 | 67 | No | 88 | 64 | 27 | Yes | 30 | 6 | 80 | Yes |
| Third R3 / W4 | Bedroom | 37.63 | 21.98 | 15.65 | 42 | No | 97 | 31 | 68 | No | 88 | 63 | 28 | Yes | 30 | 6 | 80 | Yes |
| Third R4 / W5 | LKD | 16.38 | 3.33 | 13.05 | 80 | No | 99 | 18 | 82 | No | 26 | 7 | 73 | No | 24 | 5 | 79 | Yes |
| Third R5 / W6 | Bedroom | 37.72 | 21.81 | 15.91 | 42 | No | 97 | 31 | 68 | No | 88 | 61 | 31 | Yes | 30 | 4 | 87 | No |
| Third R6 / W7 | Bedroom | 37.78 | 21.76 | 16.02 | 42 | No | 96 | 25 | 74 | No | 88 | 61 | 31 | Yes | 30 | 4 | 87 | No |
| Third R7 / W8 | Bedroom | 37.84 | 21.73 | 16.11 | 43 | No | 96 | 29 | 70 | No | 88 | 61 | 31 | Yes | 30 | 4 | 87 | No |
| Third R8 / W9 | Bedroom | 37.88 | 21.68 | 16.20 | 43 | No | 97 | 30 | 69 | No | 88 | 62 | 30 | Yes | 30 | 5 | 83 | Yes |
| Third R9 / W10 | LKD | 18.02 | 3.14 | 14.88 | 83 | No | 100 | 79 | 21 | No | 31 | 8 | 74 | No | 28 | 6 | 79 | Yes |
| Third R9 / W11 | | 39.27 | 33.89 | 5.38 | 14 | Yes | | | | | 50 | 38 | 24 | Yes | 15 | 3 | 80 | No |
| Fourth R1 / W1 | LKD | 33.22 | 29.73 | 3.49 | 11 | Yes | 99 | 84 | 15 | Yes | *North Facing* | | | | | | | |
| Fourth R1 / W2 | | 17.91 | 5.16 | 12.75 | 71 | No | | | | | 27 | 8 | 70 | No | 26 | 7 | 73 | Yes |
| Fourth R2 / W3 | Bedroom | 38.28 | 23.67 | 14.61 | 38 | No | 98 | 37 | 62 | No | 88 | 65 | 26 | Yes | 30 | 7 | 77 | Yes |
| Fourth R3 / W4 | Bedroom | 38.32 | 23.63 | 14.69 | 38 | No | 97 | 35 | 63 | No | 88 | 64 | 27 | Yes | 30 | 6 | 80 | Yes |
| Fourth R4 / W5 | LKD | 16.92 | 4.69 | 12.23 | 72 | No | 99 | 23 | 77 | No | 26 | 9 | 65 | No | 24 | 7 | 71 | Yes |
| Fourth R5 / W6 | Bedroom | 38.39 | 23.49 | 14.90 | 39 | No | 97 | 36 | 63 | No | 88 | 64 | 27 | Yes | 30 | 6 | 80 | Yes |
| Fourth R6 / W7 | Bedroom | 38.42 | 23.44 | 14.98 | 39 | No | 96 | 29 | 70 | No | 88 | 64 | 27 | Yes | 30 | 6 | 80 | Yes |
| Fourth R7 / W8 | Bedroom | 38.45 | 23.40 | 15.05 | 39 | No | 96 | 34 | 65 | No | 88 | 64 | 27 | Yes | 30 | 6 | 80 | Yes |
| Fourth R8 / W9 | Bedroom | 38.48 | 23.34 | 15.14 | 39 | No | 97 | 34 | 65 | No | 88 | 65 | 26 | Yes | 30 | 7 | 77 | Yes |
| Fourth R9 / W10 | LKD | 18.48 | 4.63 | 13.85 | 75 | No | 100 | 84 | 16 | Yes | 31 | 10 | 68 | No | 28 | 7 | 75 | Yes |
| Fourth R9 / W11 | | 39.56 | 34.63 | 4.93 | 12 | Yes | | | | | 50 | 41 | 18 | Yes | 15 | 6 | 60 | Yes |
| Fifth R1 / W1 | LKD | 18.96 | 6.98 | 11.98 | 63 | No | 100 | 87 | 13 | Yes | 28 | 12 | 57 | No | 26 | 10 | 62 | Yes |
| Fifth R1 / W8 | | 29.72 | 26.75 | 2.97 | 10 | Yes | | | | | *North Facing* | | | | | | | |
| Fifth R2 / W2 | Bedroom | 38.83 | 25.24 | 13.59 | 35 | No | 97 | 42 | 57 | No | 88 | 69 | 22 | Yes | 30 | 11 | 63 | Yes |
| Fifth R3 / W3 | Bedroom | 38.84 | 25.18 | 13.66 | 35 | No | 96 | 34 | 65 | No | 88 | 69 | 22 | Yes | 30 | 11 | 63 | Yes |
| Fifth R4 / W4 | Bedroom | 38.86 | 25.14 | 13.72 | 35 | No | 96 | 39 | 59 | No | 88 | 69 | 22 | Yes | 30 | 11 | 63 | Yes |
| Fifth R5 / W5 | Bedroom | 38.87 | 25.09 | 13.78 | 35 | No | 97 | 40 | 59 | No | 88 | 70 | 20 | Yes | 30 | 12 | 60 | Yes |
| Fifth R6 / W6 | LKD | 18.79 | 6.22 | 12.57 | 67 | No | 100 | 88 | 12 | Yes | 31 | 14 | 55 | No | 28 | 11 | 61 | Yes |
| Fifth R6 / W7 | | 39.60 | 35.17 | 4.43 | 11 | Yes | | | | | 50 | 42 | 16 | Yes | 15 | 7 | 53 | Yes |
| Sixth R1 / W1 | LKD | 35.68 | 25.09 | 10.59 | 30 | No | 100 | 94 | 6 | Yes | 71 | 57 | 20 | Yes | 26 | 12 | 54 | Yes |
| Sixth R1 / W8 | | 33.94 | 31.06 | 2.88 | 8 | Yes | | | | | *North Facing* | | | | | | | |
| Sixth R2 / W2 | Bedroom | 39.07 | 27.05 | 12.02 | 31 | Yes | 97 | 50 | 48 | No | 88 | 72 | 18 | Yes | 30 | 14 | 53 | Yes |
| Sixth R3 / W3 | Bedroom | 39.08 | 27.00 | 12.08 | 31 | Yes | 96 | 41 | 58 | No | 88 | 72 | 18 | Yes | 30 | 14 | 53 | Yes |
| Sixth R4 / W4 | Bedroom | 39.08 | 26.96 | 12.12 | 31 | No | 96 | 47 | 51 | No | 88 | 72 | 18 | Yes | 30 | 14 | 53 | Yes |
| Sixth R5 / W5 | Bedroom | 39.09 | 26.91 | 12.18 | 31 | No | 97 | 48 | 51 | No | 88 | 71 | 19 | Yes | 30 | 13 | 57 | Yes |
| Sixth R6 / W6 | LKD | 18.97 | 7.86 | 11.11 | 59 | No | 100 | 92 | 8 | Yes | 31 | 15 | 52 | No | 28 | 12 | 57 | Yes |
| Sixth R6 / W7 | | 39.61 | 35.72 | 3.89 | 10 | Yes | | | | | 50 | 43 | 14 | Yes | 15 | 8 | 47 | Yes |
| **Norada Geoffrey Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 4.04 | 4.05 | -0.01 | 0 | Yes | 62 | 60 | 4 | Yes | *North Facing* | | | | | | | |
| First R1 / W2 | | 12.97 | 12.70 | 0.27 | 2 | Yes | | | | | 31 | 30 | 3 | Yes | 5 | 4 | 20 | Yes |
| First R2 / W3 | LKD | 0.56 | 0.21 | 0.35 | 63 | No | 38 | 14 | 63 | No | 1 | 0 | 100 | Yes | 1 | 0 | 100 | Yes |
| First R3 / W4 | Bedroom | 10.72 | 10.72 | 0.00 | 0 | Yes | 29 | 29 | 0 | Yes | 30 | 30 | 0 | Yes | 0 | 0 | 100 | Yes |
| First R4 / W5 | Bedroom | 10.31 | 10.31 | 0.00 | 0 | Yes | 22 | 22 | 0 | Yes | 33 | 33 | 0 | Yes | 0 | 0 | 100 | Yes |
| Second R1 / W1 | LKD | 4.45 | 4.46 | -0.01 | 0 | Yes | 62 | 60 | 4 | Yes | *North Facing* | | | | | | | |
| Second R1 / W2 | | 15.02 | 14.73 | 0.29 | 2 | Yes | | | | | 34 | 34 | 0 | Yes | 5 | 5 | 0 | Yes |
| Second R2 / W3 | LKD | 0.61 | 0.27 | 0.34 | 56 | No | 39 | 16 | 58 | No | 1 | 0 | 100 | Yes | 1 | 0 | 100 | Yes |
| Second R3 / W4 | Bedroom | 12.95 | 12.95 | 0.00 | 0 | Yes | 36 | 36 | 0 | Yes | 40 | 40 | 0 | Yes | 0 | 0 | 100 | Yes |
| Second R4 / W5 | Bedroom | 12.48 | 12.48 | 0.00 | 0 | Yes | 29 | 29 | 0 | Yes | 40 | 40 | 0 | Yes | 1 | 1 | 0 | Yes |
| Third R1 / W1 | LKD | 4.86 | 4.87 | -0.01 | 0 | Yes | 63 | 61 | 3 | Yes | *North Facing* | | | | | | | |
| Third R1 / W2 | | 17.55 | 17.23 | 0.32 | 2 | Yes | | | | | 43 | 43 | 0 | Yes | 7 | 7 | 0 | Yes |
| Third R2 / W3 | LKD | 0.73 | 0.39 | 0.34 | 47 | No | 40 | 20 | 50 | No | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| Third R3 / W4 | Bedroom | 15.77 | 15.77 | 0.00 | 0 | Yes | 50 | 50 | 0 | Yes | 48 | 48 | 0 | Yes | 1 | 1 | 0 | Yes |
| Third R4 / W5 | Bedroom | 15.25 | 15.25 | 0.00 | 0 | Yes | 36 | 36 | 0 | Yes | 48 | 48 | 0 | Yes | 3 | 3 | 0 | Yes |

**Daylight and Sunlight Parameter Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Fourth R1 / W1 | LKD | 5.32 | 5.33 | -0.01 | 0 | Yes | 64 | 62 | 3 | Yes | *North Facing* | | | | | | | |
| Fourth R1 / W2 | | 20.61 | 20.25 | 0.36 | 2 | Yes | | | | | 49 | 49 | 0 | Yes | 9 | 9 | 0 | Yes |
| Fourth R2 / W3 | LKD | 1.01 | 0.68 | 0.33 | 33 | No | 41 | 25 | 39 | No | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| Fourth R3 / W4 | Bedroom | 19.34 | 19.33 | 0.01 | 0 | Yes | 59 | 59 | 0 | Yes | 55 | 55 | 0 | Yes | 3 | 3 | 0 | Yes |
| Fourth R4 / W5 | Bedroom | 18.80 | 18.80 | 0.00 | 0 | Yes | 42 | 42 | 0 | Yes | 57 | 56 | 2 | Yes | 5 | 4 | 20 | Yes |
| Fifth R1 / W1 | LKD | 6.04 | 6.04 | 0.00 | 0 | Yes | 66 | 65 | 2 | Yes | *North Facing* | | | | | | | |
| Fifth R1 / W2 | | 24.22 | 23.71 | 0.51 | 2 | Yes | | | | | 53 | 53 | 0 | Yes | 12 | 12 | 0 | Yes |
| Fifth R2 / W3 | LKD | 1.69 | 1.27 | 0.42 | 25 | No | 45 | 31 | 31 | No | 2 | 2 | 0 | Yes | 1 | 1 | 0 | Yes |
| Fifth R3 / W4 | Bedroom | 23.77 | 23.58 | 0.19 | 1 | Yes | 66 | 66 | 0 | Yes | 66 | 65 | 2 | Yes | 8 | 7 | 13 | Yes |
| Fifth R4 / W5 | Bedroom | 23.28 | 23.11 | 0.17 | 1 | Yes | 49 | 49 | 0 | Yes | 64 | 63 | 2 | Yes | 6 | 5 | 17 | Yes |
| Sixth R1 / W1 | LKD | 7.10 | 6.95 | 0.15 | 2 | Yes | 71 | 70 | 2 | Yes | *North Facing* | | | | | | | |
| Sixth R1 / W2 | | 28.11 | 27.16 | 0.95 | 3 | Yes | | | | | 59 | 58 | 2 | Yes | 18 | 17 | 6 | Yes |
| Sixth R2 / W3 | LKD | 2.51 | 1.81 | 0.70 | 28 | No | 61 | 46 | 25 | No | 3 | 2 | 33 | Yes | 2 | 1 | 50 | Yes |
| Sixth R3 / W4 | Bedroom | 28.92 | 28.36 | 0.56 | 2 | Yes | 82 | 82 | 0 | Yes | 76 | 74 | 3 | Yes | 18 | 16 | 11 | Yes |
| Sixth R4 / W5 | Bedroom | 28.49 | 28.04 | 0.45 | 2 | Yes | 67 | 67 | 0 | Yes | 74 | 73 | 1 | Yes | 16 | 15 | 6 | Yes |
| Seventh R1 / W1 | LKD | 8.04 | 7.61 | 0.43 | 5 | Yes | 89 | 88 | 2 | Yes | *North Facing* | | | | | | | |
| Seventh R1 / W2 | | 31.71 | 30.25 | 1.46 | 5 | Yes | | | | | 65 | 64 | 2 | Yes | 24 | 23 | 4 | Yes |
| Seventh R2 / W3 | LKD | 5.83 | 4.96 | 0.87 | 15 | Yes | 81 | 75 | 7 | Yes | 10 | 9 | 10 | Yes | 9 | 8 | 11 | Yes |
| Seventh R3 / W4 | Bedroom | 34.25 | 33.45 | 0.80 | 2 | Yes | 97 | 97 | 0 | Yes | 86 | 83 | 3 | Yes | 28 | 25 | 11 | Yes |
| Seventh R4 / W5 | Bedroom | 34.02 | 33.44 | 0.58 | 2 | Yes | 98 | 98 | 0 | Yes | 86 | 84 | 2 | Yes | 28 | 26 | 7 | Yes |
| Eighth R1 / W1 | LKD | 8.61 | 8.22 | 0.39 | 5 | Yes | 94 | 93 | 1 | Yes | *North Facing* | | | | | | | |
| Eighth R1 / W2 | | 34.74 | 31.90 | 2.84 | 8 | Yes | | | | | 67 | 66 | 1 | Yes | 26 | 25 | 4 | Yes |
| Eighth R2 / W3 | LKD | 8.63 | 6.44 | 2.19 | 25 | No | 84 | 83 | 2 | Yes | 11 | 11 | 0 | Yes | 10 | 10 | 0 | Yes |
| Eighth R3 / W4 | Bedroom | 38.85 | 35.77 | 3.08 | 8 | Yes | 97 | 97 | 0 | Yes | 88 | 86 | 2 | Yes | 30 | 28 | 7 | Yes |
| Eighth R4 / W5 | Bedroom | 38.90 | 35.79 | 3.11 | 8 | Yes | 98 | 98 | 0 | Yes | 88 | 86 | 2 | Yes | 30 | 28 | 7 | Yes |
| Ninth R1 / W1 | LKD | 21.14 | 20.80 | 0.34 | 2 | Yes | 94 | 94 | 0 | Yes | *North Facing* | | | | | | | |
| Ninth R1 / W2 | | 37.38 | 34.82 | 2.56 | 7 | Yes | | | | | 80 | 79 | 1 | Yes | 26 | 25 | 4 | Yes |
| Ninth R2 / W3 | LKD | 21.54 | 19.57 | 1.97 | 9 | Yes | 84 | 84 | 1 | Yes | 34 | 34 | 0 | Yes | 10 | 10 | 0 | Yes |
| Ninth R3 / W4 | Bedroom | 39.43 | 36.61 | 2.82 | 7 | Yes | 97 | 97 | 0 | Yes | 88 | 86 | 2 | Yes | 30 | 28 | 7 | Yes |
| Ninth R4 / W5 | Bedroom | 39.43 | 36.60 | 2.83 | 7 | Yes | 98 | 98 | 0 | Yes | 88 | 86 | 2 | Yes | 30 | 28 | 7 | Yes |
| **White Moth Geoffrey Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 0.00 | 0.00 | 0.00 | 100 | Yes | 1 | 1 | 0 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| First R1 / W2 | | 0.00 | 0.00 | 0.00 | 100 | Yes | | | | | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| First R2 / W3 | LKD | 0.00 | 0.00 | 0.00 | 100 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| First R2 / W4 | | 0.03 | 0.00 | 0.03 | 100 | No | | | | | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| First R3 / W5 | LKD | 12.88 | 12.88 | 0.00 | 0 | Yes | 14 | 14 | 0 | Yes | 38 | 38 | 0 | Yes | 1 | 1 | 0 | Yes |
| First R4 / W6 | Bedroom | 0.00 | 0.00 | 0.00 | 100 | Yes | 3 | 3 | 0 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| First R5 / W7 | LKD | 0.00 | 0.00 | 0.00 | 100 | Yes | 14 | 14 | 0 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| First R5 / W8 | | 0.01 | 0.01 | 0.00 | 0 | Yes | | | | | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Second R1 / W1 | LKD | 0.00 | 0.00 | 0.00 | 100 | Yes | 6 | 6 | 0 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Second R1 / W2 | | 0.00 | 0.00 | 0.00 | 100 | Yes | | | | | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Second R2 / W3 | LKD | 0.00 | 0.00 | 0.00 | 100 | Yes | 1 | 1 | 5 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Second R2 / W4 | | 0.03 | 0.00 | 0.03 | 100 | No | | | | | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Second R3 / W5 | LKD | 15.85 | 15.85 | 0.00 | 0 | Yes | 18 | 18 | 0 | Yes | 48 | 48 | 0 | Yes | 2 | 2 | 0 | Yes |
| Second R4 / W6 | Bedroom | 0.00 | 0.00 | 0.00 | 100 | Yes | 7 | 7 | 0 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Second R5 / W7 | LKD | 0.05 | 0.05 | 0.00 | 0 | Yes | 24 | 23 | 1 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Second R5 / W8 | | 0.11 | 0.11 | 0.00 | 0 | Yes | | | | | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Third R1 / W1 | LKD | 0.00 | 0.00 | 0.00 | 100 | Yes | 18 | 18 | 0 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Third R1 / W2 | | 0.00 | 0.00 | 0.00 | 100 | Yes | | | | | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Third R2 / W3 | LKD | 0.00 | 0.00 | 0.00 | 100 | Yes | 12 | 11 | 2 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Third R2 / W4 | | 0.03 | 0.00 | 0.03 | 100 | No | | | | | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Third R3 / W5 | LKD | 19.63 | 19.63 | 0.00 | 0 | Yes | 24 | 24 | 0 | Yes | 56 | 56 | 0 | Yes | 5 | 5 | 0 | Yes |

**Daylight and Sunlight Parameter Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Third R4 / W6 | Bedroom | 0.05 | 0.05 | 0.00 | 0 | Yes | 17 | 17 | 0 | Yes | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| Third R5 / W7 | LKD | 0.18 | 0.16 | 0.02 | 11 | Yes | 40 | 36 | 12 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Third R5 / W8 | | 0.31 | 0.26 | 0.05 | 16 | Yes | | | | | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| Fourth R1 / W1 | LKD | 0.48 | 0.46 | 0.02 | 4 | Yes | 40 | 40 | 0 | Yes | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| Fourth R1 / W2 | | 0.38 | 0.38 | 0.00 | 0 | Yes | | | | | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| Fourth R2 / W3 | LKD | 0.38 | 0.36 | 0.02 | 5 | Yes | 42 | 41 | 3 | Yes | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Fourth R2 / W4 | | 0.38 | 0.35 | 0.03 | 8 | Yes | | | | | 0 | 0 | 100 | Yes | 0 | 0 | 100 | Yes |
| Fourth R3 / W5 | LKD | 24.22 | 24.20 | 0.02 | 0 | Yes | 39 | 39 | 0 | Yes | 65 | 65 | 0 | Yes | 12 | 12 | 0 | Yes |
| Fourth R4 / W6 | Bedroom | 0.98 | 0.97 | 0.01 | 1 | Yes | 40 | 40 | 0 | Yes | 2 | 2 | 0 | Yes | 2 | 2 | 0 | Yes |
| Fourth R5 / W7 | LKD | 1.14 | 1.00 | 0.14 | 12 | Yes | 63 | 59 | 6 | Yes | 2 | 2 | 0 | Yes | 2 | 2 | 0 | Yes |
| Fourth R5 / W8 | | 1.13 | 0.97 | 0.16 | 14 | Yes | | | | | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| Fifth R1 / W1 | LKD | 1.08 | 0.76 | 0.32 | 30 | No | 57 | 54 | 4 | Yes | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| Fifth R1 / W2 | | 0.88 | 0.71 | 0.17 | 19 | Yes | | | | | 1 | 1 | 0 | Yes | 1 | 1 | 0 | Yes |
| Fifth R2 / W3 | LKD | 1.88 | 1.24 | 0.64 | 34 | No | 77 | 67 | 13 | Yes | 2 | 2 | 0 | Yes | 2 | 2 | 0 | Yes |
| Fifth R2 / W4 | | 1.73 | 1.19 | 0.54 | 31 | No | | | | | 3 | 3 | 0 | Yes | 3 | 3 | 0 | Yes |
| Fifth R3 / W5 | LKD | 29.39 | 28.63 | 0.76 | 3 | Yes | 84 | 62 | 27 | No | 75 | 75 | 0 | Yes | 19 | 19 | 0 | Yes |
| Fifth R4 / W6 | Bedroom | 3.85 | 2.91 | 0.94 | 24 | No | 69 | 68 | 1 | Yes | 7 | 7 | 0 | Yes | 7 | 7 | 0 | Yes |
| Fifth R5 / W7 | LKD | 4.45 | 3.21 | 1.24 | 28 | No | 93 | 90 | 3 | Yes | 7 | 7 | 0 | Yes | 7 | 7 | 0 | Yes |
| Fifth R5 / W8 | | 4.07 | 3.03 | 1.04 | 26 | No | | | | | 7 | 7 | 0 | Yes | 7 | 7 | 0 | Yes |
| Sixth R1 / W1 | LKD | 3.19 | 2.62 | 0.57 | 18 | Yes | 73 | 71 | 3 | Yes | 4 | 3 | 25 | Yes | 4 | 3 | 25 | Yes |
| Sixth R1 / W2 | | 3.21 | 2.80 | 0.41 | 13 | Yes | | | | | 4 | 4 | 0 | Yes | 4 | 4 | 0 | Yes |
| Sixth R2 / W3 | LKD | 3.19 | 1.70 | 1.49 | 47 | No | 82 | 76 | 8 | Yes | 3 | 2 | 33 | Yes | 3 | 2 | 33 | Yes |
| Sixth R2 / W4 | | 2.97 | 1.65 | 1.32 | 44 | No | | | | | 4 | 4 | 0 | Yes | 4 | 4 | 0 | Yes |
| Sixth R3 / W5 | LKD | 34.06 | 31.47 | 2.59 | 8 | Yes | 94 | 73 | 22 | No | 80 | 79 | 1 | Yes | 24 | 23 | 4 | Yes |
| Sixth R4 / W6 | Bedroom | 6.44 | 3.78 | 2.66 | 41 | No | 78 | 78 | 0 | Yes | 8 | 8 | 0 | Yes | 8 | 8 | 0 | Yes |
| Sixth R5 / W7 | LKD | 7.18 | 4.04 | 3.14 | 44 | No | 96 | 96 | 0 | Yes | 8 | 7 | 13 | Yes | 8 | 7 | 13 | Yes |
| Sixth R5 / W8 | | 6.60 | 3.92 | 2.68 | 41 | No | | | | | 8 | 8 | 0 | Yes | 8 | 8 | 0 | Yes |
| Seventh R1 / W1 | LKD | 6.68 | 6.01 | 0.67 | 10 | Yes | 95 | 95 | 0 | Yes | 11 | 10 | 9 | Yes | 11 | 10 | 9 | Yes |
| Seventh R1 / W2 | | 6.97 | 6.51 | 0.46 | 7 | Yes | | | | | 10 | 10 | 0 | Yes | 10 | 10 | 0 | Yes |
| Seventh R2 / W3 | LKD | 6.01 | 4.51 | 1.50 | 25 | No | 92 | 92 | 0 | Yes | 8 | 7 | 13 | Yes | 8 | 7 | 13 | Yes |
| Seventh R2 / W4 | | 5.94 | 4.69 | 1.25 | 21 | No | | | | | 8 | 8 | 0 | Yes | 8 | 8 | 0 | Yes |
| Seventh R3 / W5 | LKD | 36.98 | 34.39 | 2.59 | 7 | Yes | 98 | 86 | 12 | Yes | 85 | 84 | 1 | Yes | 28 | 27 | 4 | Yes |
| Seventh R4 / W6 | Bedroom | 32.42 | 29.46 | 2.96 | 9 | Yes | 94 | 94 | 0 | Yes | 69 | 68 | 1 | Yes | 26 | 25 | 4 | Yes |
| Eighth R1 / W1 | LKD | 29.29 | 26.73 | 2.56 | 9 | Yes | 98 | 98 | 0 | Yes | 62 | 61 | 2 | Yes | 23 | 22 | 4 | Yes |
| Eighth R1 / W2 | | 36.90 | 33.70 | 3.20 | 9 | Yes | | | | | 77 | 75 | 3 | Yes | 28 | 26 | 7 | Yes |
| **Olive Geoffrey Watling Way** | | | | | | | | | | | | | | | | | | |
| First R1 / W1 | LKD | 1.04 | 0.81 | 0.23 | 22 | No | 59 | 42 | 29 | No | 2 | 1 | 50 | Yes | 2 | 1 | 50 | Yes |
| First R1 / W2 | | 1.78 | 1.17 | 0.61 | 34 | No | | | | | 2 | 2 | 0 | Yes | 2 | 2 | 0 | Yes |
| First R2 / W3 | Bedroom | 21.29 | 20.46 | 0.83 | 4 | Yes | 76 | 65 | 15 | Yes | 60 | 59 | 2 | Yes | 9 | 8 | 11 | Yes |
| First R3 / W4 | Bedroom | 22.02 | 21.02 | 1.00 | 5 | Yes | 74 | 70 | 6 | Yes | 59 | 57 | 3 | Yes | 9 | 7 | 22 | Yes |
| First R4 / W5 | LKD | 2.28 | 1.04 | 1.24 | 54 | No | 74 | 31 | 58 | No | 7 | 4 | 43 | Yes | 5 | 2 | 60 | Yes |
| First R5 / W6 | LKD | 21.11 | 19.63 | 1.48 | 7 | Yes | 98 | 98 | 0 | Yes | 56 | 53 | 5 | Yes | 11 | 8 | 27 | Yes |
| First R5 / W7 | | 5.75 | 5.27 | 0.48 | 8 | Yes | | | | | 9 | 8 | 11 | Yes | 3 | 2 | 33 | Yes |
| Second R1 / W1 | LKD | 1.46 | 1.15 | 0.31 | 21 | No | 65 | 54 | 18 | Yes | 2 | 1 | 50 | Yes | 2 | 1 | 50 | Yes |
| Second R1 / W2 | | 2.23 | 1.55 | 0.68 | 30 | No | | | | | 2 | 2 | 0 | Yes | 2 | 2 | 0 | Yes |
| Second R2 / W3 | Bedroom | 24.44 | 23.56 | 0.88 | 4 | Yes | 83 | 76 | 8 | Yes | 64 | 63 | 2 | Yes | 11 | 10 | 9 | Yes |
| Second R3 / W4 | Bedroom | 25.22 | 24.16 | 1.06 | 4 | Yes | 83 | 82 | 1 | Yes | 66 | 64 | 3 | Yes | 12 | 10 | 17 | Yes |
| Second R4 / W5 | LKD | 2.72 | 1.43 | 1.29 | 47 | No | 82 | 38 | 54 | No | 8 | 5 | 38 | Yes | 6 | 3 | 50 | Yes |
| Second R5 / W6 | LKD | 23.95 | 22.44 | 1.51 | 6 | Yes | 98 | 98 | 0 | Yes | 59 | 57 | 3 | Yes | 14 | 12 | 14 | Yes |
| Second R5 / W7 | | 6.64 | 6.18 | 0.46 | 7 | Yes | | | | | 10 | 9 | 10 | Yes | 3 | 2 | 33 | Yes |
| Third R1 / W1 | LKD | 2.91 | 2.45 | 0.46 | 16 | Yes | 74 | 70 | 5 | Yes | 4 | 2 | 50 | Yes | 4 | 2 | 50 | Yes |
| Third R1 / W2 | | 3.31 | 2.50 | 0.81 | 24 | No | | | | | 4 | 2 | 50 | Yes | 4 | 2 | 50 | Yes |

**Daylight and Sunlight Parameter Result Spreadsheet**

| Room / Window Reference Number | Room Use. (Assumed*) | Vertical Sky Component (VSC) Results | | | | VSC | No Sky Line (NSL) Results | | | NSL | Annual Probable Sunlight Hours (APSH) Results (per window) | | | APSH (per window) | Winter Probable Sunlight Hours (WPSH) Results (per window) | | | WPSH (per window) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Existing VSC (%) | Proposed VSC (%) | Loss | % Loss | Meets BRE criteria? | Existing Lit Area (%) | Proposed Lit Area (%) | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? | Existing | Proposed | % Loss | Meets BRE criteria? |
| Third R2 / W3 | Bedroom | 27.79 | 26.78 | 1.01 | 4 | Yes | 90 | 86 | 5 | Yes | 72 | 71 | 1 | Yes | 17 | 16 | 6 | Yes |
| Third R3 / W4 | Bedroom | 28.52 | 27.34 | 1.18 | 4 | Yes | 90 | 89 | 0 | Yes | 72 | 70 | 3 | Yes | 17 | 15 | 12 | Yes |
| Third R4 / W5 | LKD | 3.32 | 1.94 | 1.38 | 42 | No | 88 | 47 | 46 | No | 9 | 6 | 33 | Yes | 7 | 4 | 43 | Yes |
| Third R5 / W6 | LKD | 26.59 | 25.01 | 1.58 | 6 | Yes | 99 | 99 | 0 | Yes | 64 | 61 | 5 | Yes | 19 | 16 | 16 | Yes |
| Third R5 / W7 | | 7.37 | 6.94 | 0.43 | 6 | Yes | | | | | 10 | 9 | 10 | Yes | 3 | 2 | 33 | Yes |
| Fourth R1 / W1 | LKD | 5.43 | 4.75 | 0.68 | 13 | Yes | 90 | 90 | 0 | Yes | 8 | 7 | 13 | Yes | 8 | 7 | 13 | Yes |
| Fourth R1 / W2 | | 5.46 | 4.50 | 0.96 | 18 | Yes | | | | | 5 | 4 | 20 | Yes | 5 | 4 | 20 | Yes |
| Fourth R2 / W3 | Bedroom | 31.25 | 29.93 | 1.32 | 4 | Yes | 97 | 96 | 1 | Yes | 76 | 75 | 1 | Yes | 20 | 19 | 5 | Yes |
| Fourth R3 / W4 | Bedroom | 31.78 | 30.28 | 1.50 | 5 | Yes | 96 | 96 | 0 | Yes | 77 | 76 | 1 | Yes | 21 | 20 | 5 | Yes |
| Fourth R4 / W5 | LKD | 4.61 | 3.08 | 1.53 | 33 | No | 92 | 57 | 38 | No | 9 | 7 | 22 | Yes | 7 | 5 | 29 | Yes |
| Fourth R5 / W6 | LKD | 29.55 | 27.67 | 1.88 | 6 | Yes | 100 | 100 | 0 | Yes | 68 | 66 | 3 | Yes | 23 | 21 | 9 | Yes |
| Fourth R5 / W7 | | 20.14 | 19.64 | 0.50 | 2 | Yes | | | | | 29 | 28 | 3 | Yes | 5 | 4 | 20 | Yes |
| Fifth R1 / W1 | LKD | 24.75 | 23.03 | 1.72 | 7 | Yes | 95 | 95 | 0 | Yes | 56 | 55 | 2 | Yes | 21 | 20 | 5 | Yes |
| Fifth R1 / W2 | | 25.13 | 23.45 | 1.68 | 7 | Yes | | | | | 46 | 45 | 2 | Yes | 19 | 18 | 5 | Yes |
| Fifth R2 / W3 | Bedroom | 34.65 | 32.59 | 2.06 | 6 | Yes | 98 | 98 | 0 | Yes | 83 | 82 | 1 | Yes | 26 | 25 | 4 | Yes |
| Fifth R3 / W4 | Bedroom | 34.93 | 32.75 | 2.18 | 6 | Yes | 97 | 97 | 0 | Yes | 85 | 84 | 1 | Yes | 27 | 26 | 4 | Yes |
| Fifth R4 / W5 | LKD | 18.26 | 16.29 | 1.97 | 11 | Yes | 99 | 71 | 29 | No | 38 | 37 | 3 | Yes | 11 | 10 | 9 | Yes |

**APPENDIX D**

**VSC FAÇADE STUDIES WITHIN THE PROPOSED SCHEME**

## D1 PROPOSED DEVELOPMENT – PLAN AND 3D VIEW IDENTIFYING VSC TEST AREAS

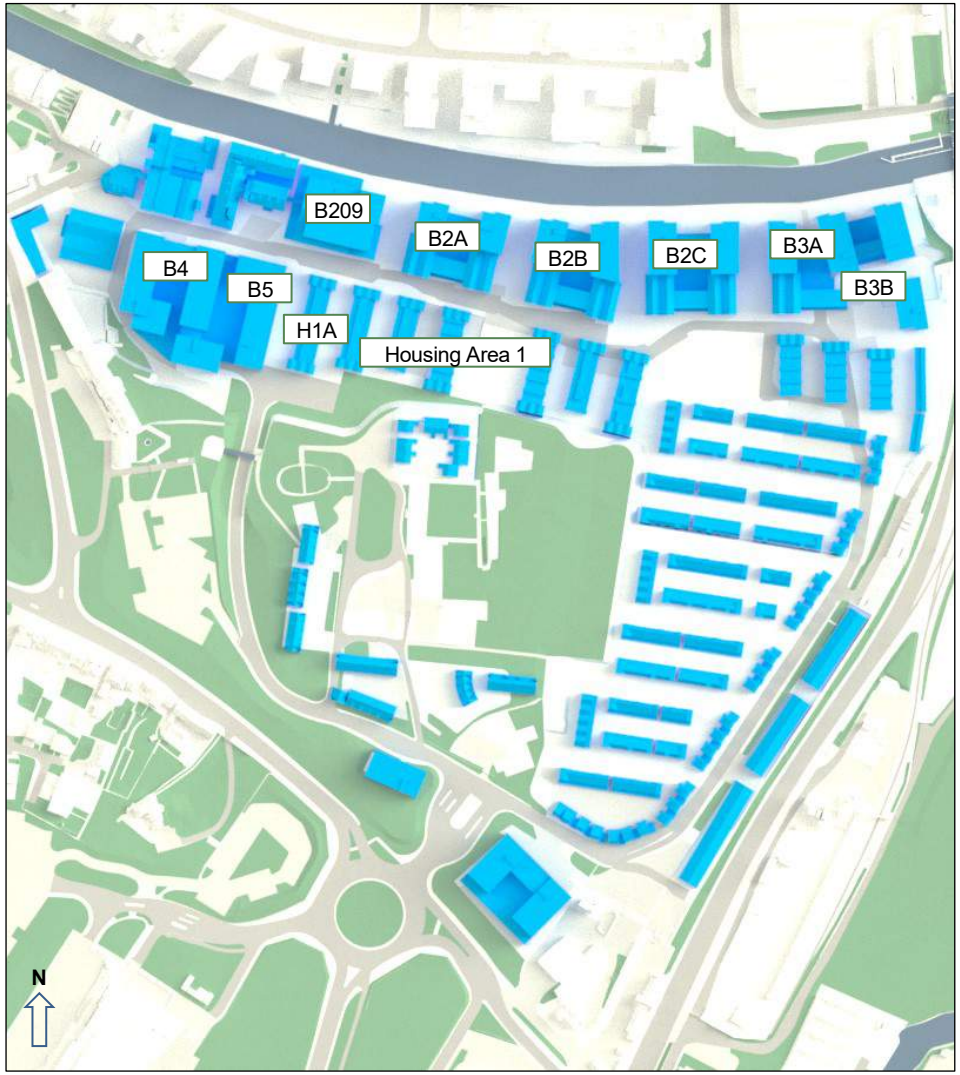



Figure 1 – Plan view of proposed development

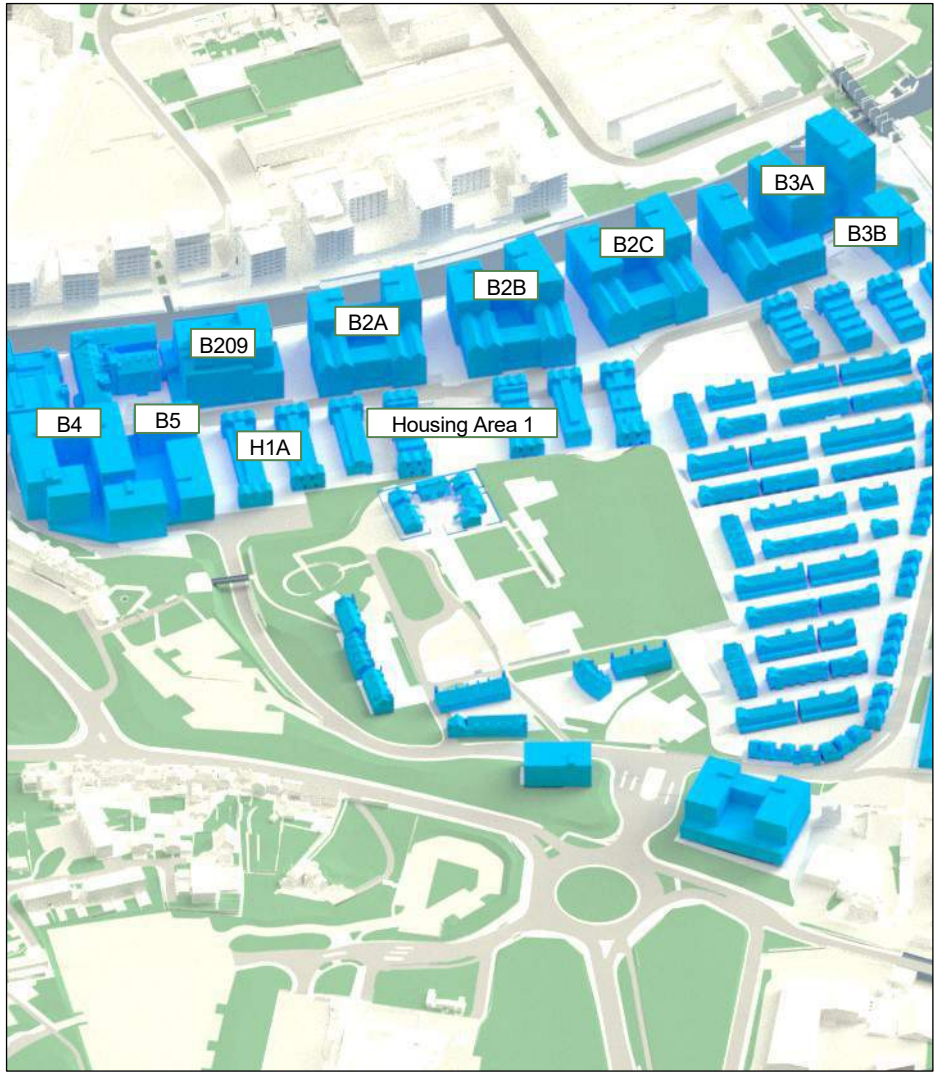



Figure 2 – View from south towards proposed development

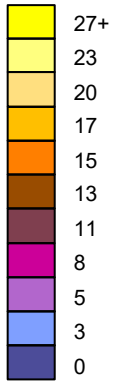
## D2 SITE-WIDE VERTICAL SKY COMPONENT (VSC) VALUES


Figure 3 – View from south-east towards proposed development

## D3 SITE-WIDE VERTICAL SKY COMPONENT (VSC) VALUES


Figure 4 – View from north-west towards proposed development

## D4 DAYLIGHT POTENTIAL – B209



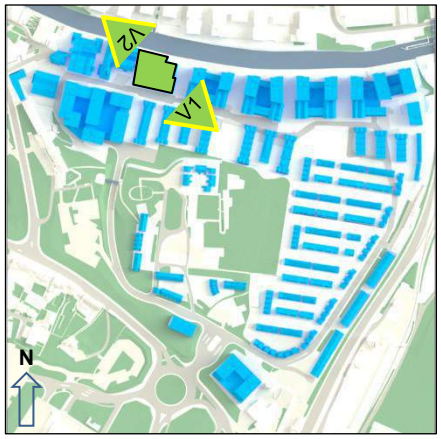
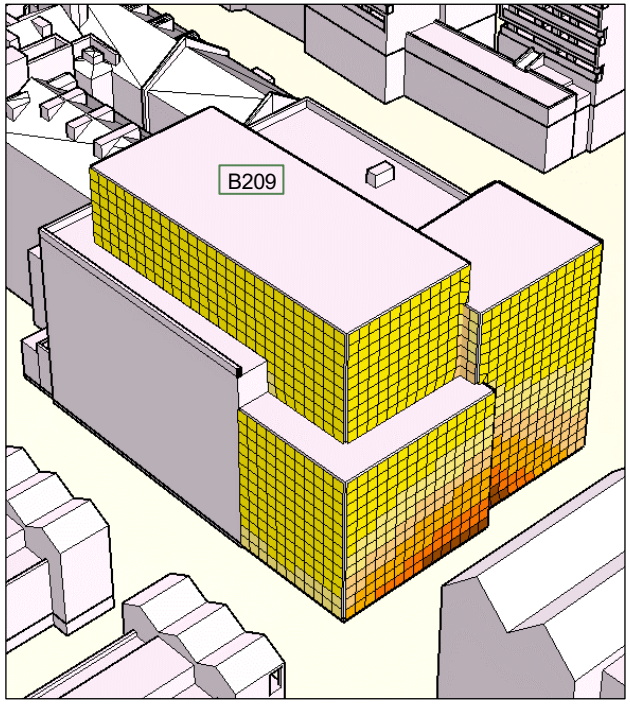
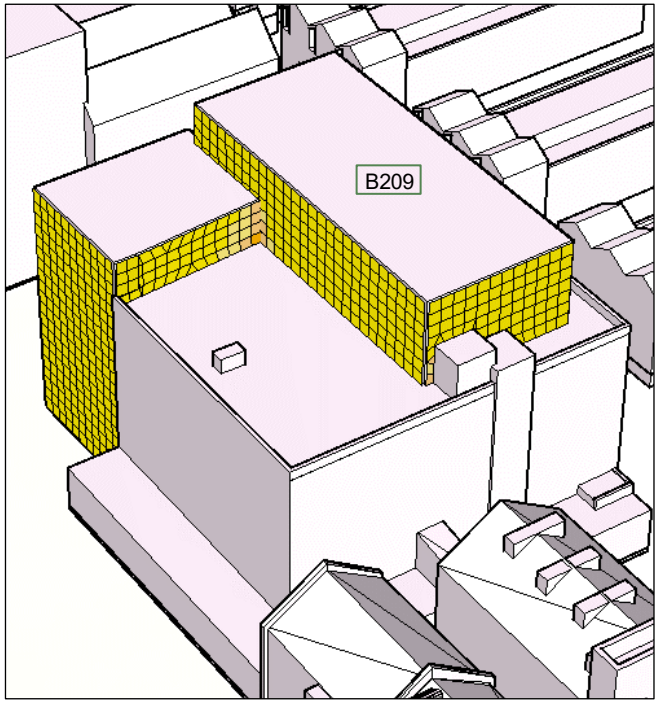




Figure 5 – Location of B209




View 1 from south-east




View 2 from north-west

## D5 DAYLIGHT POTENTIAL – B2A

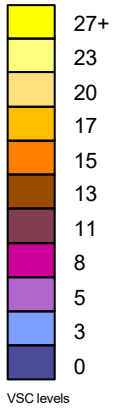
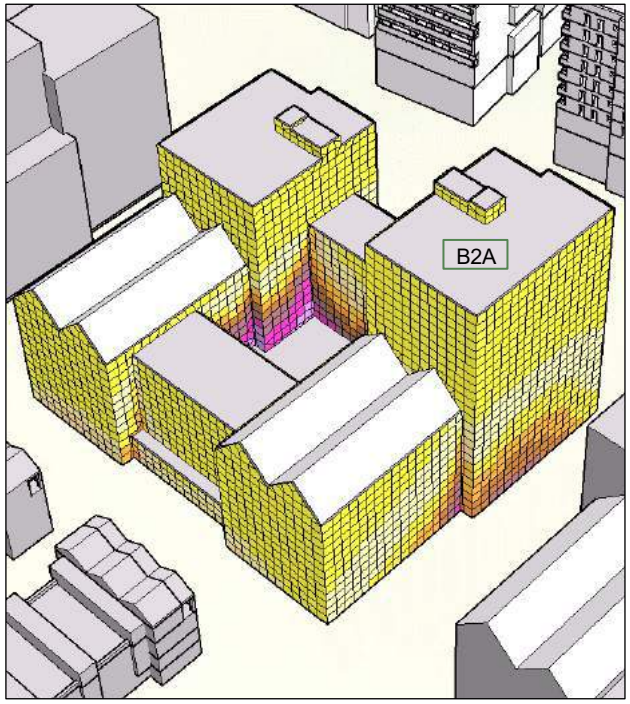
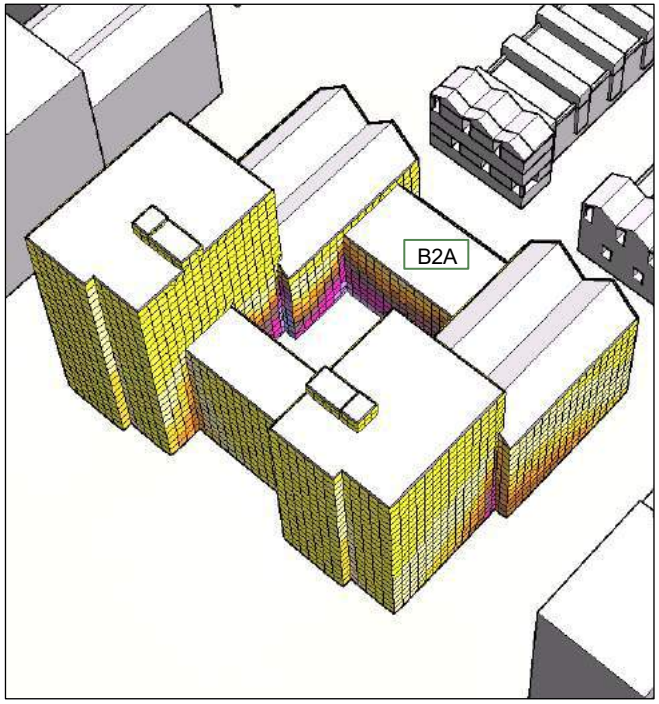




Figure 6 – Location of B2A

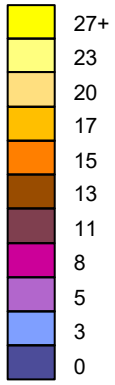



View 1 from south-east




View 2 from north-west

## D6 DAYLIGHT POTENTIAL – B2B



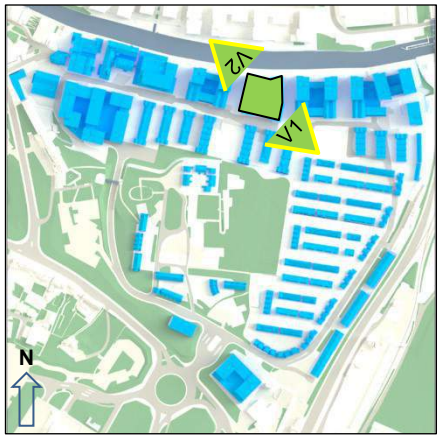
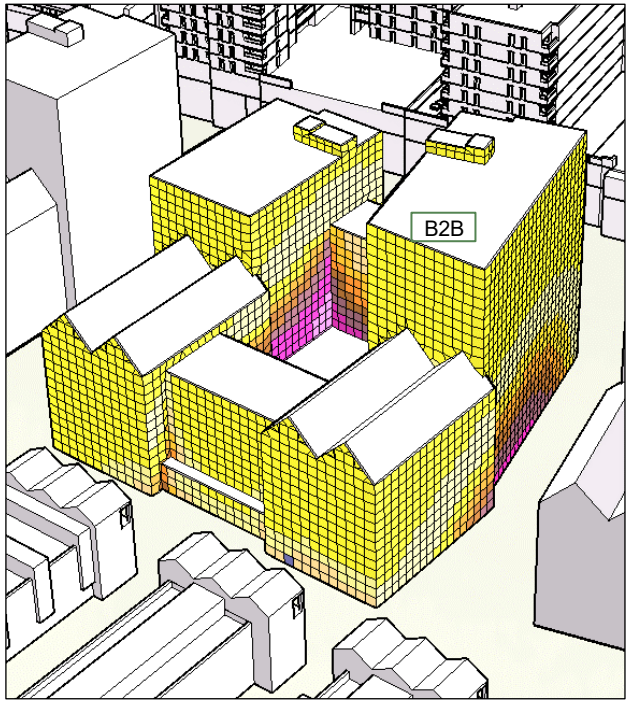
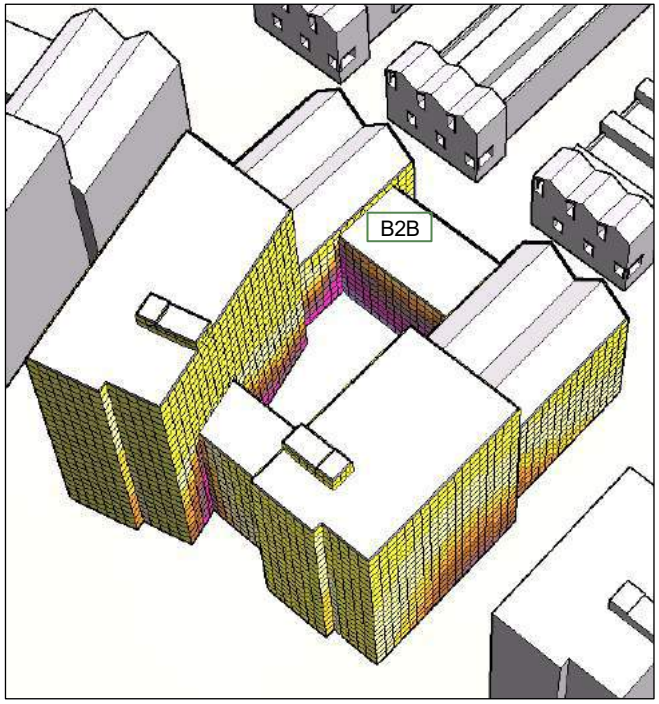




Figure 7 – Location of B2B




View 1 from south-east




View 2 from north-west

## D7 DAYLIGHT POTENTIAL – B2C

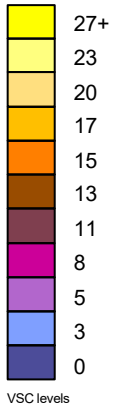
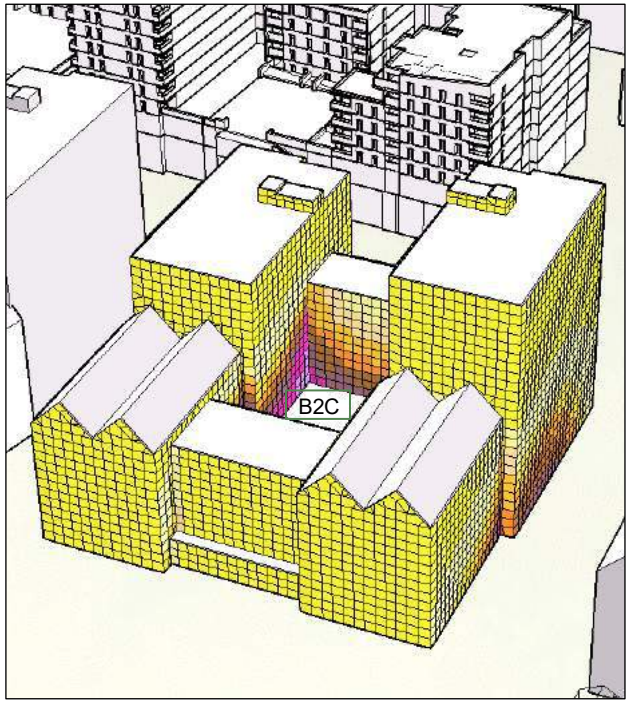
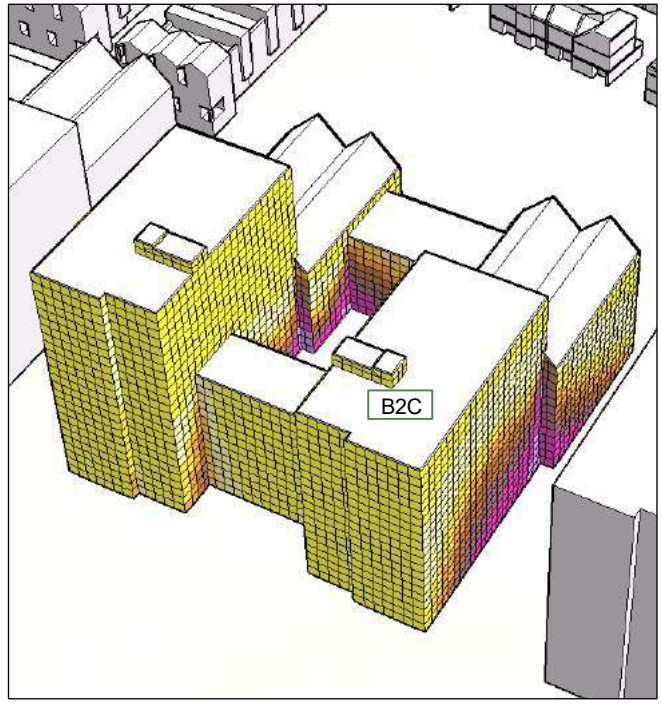




Figure 8 – Location of B2C

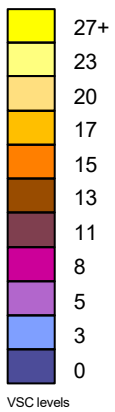



View 1 from south-east




View 2 from north-west

## D8 DAYLIGHT POTENTIAL – B3A



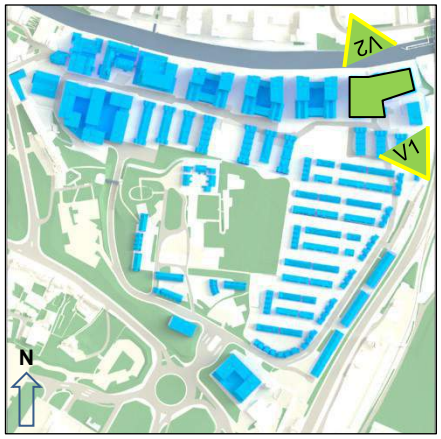
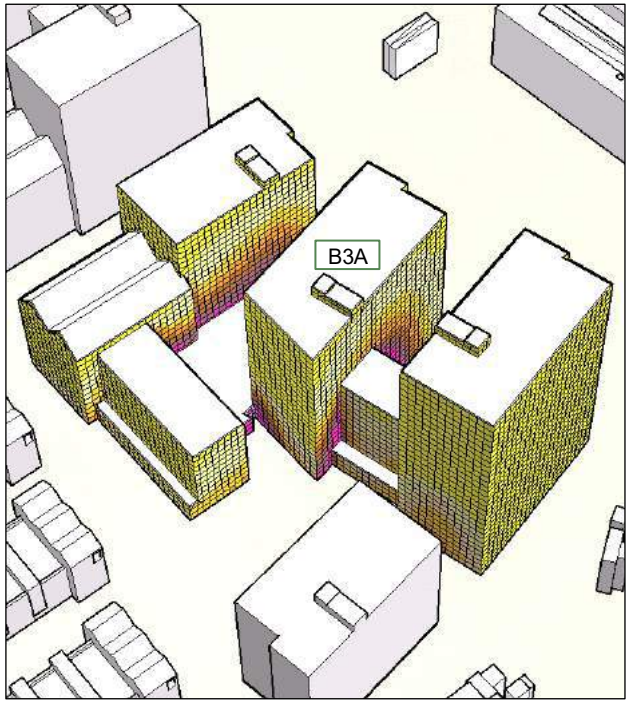
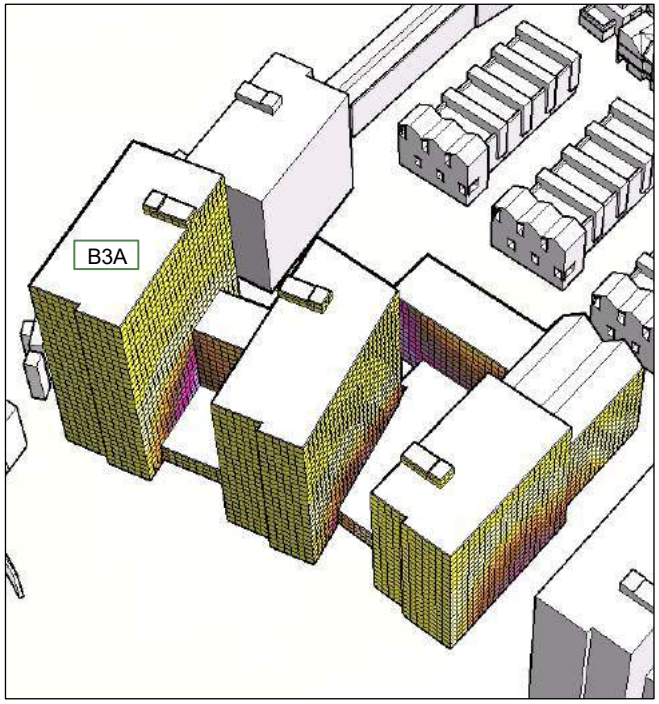




Figure 9 – Location of B3A

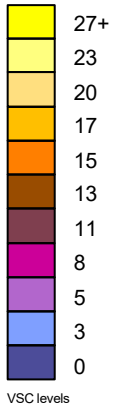



View 1 from south-east




View 2 from north-west

## D9 DAYLIGHT POTENTIAL – B3B



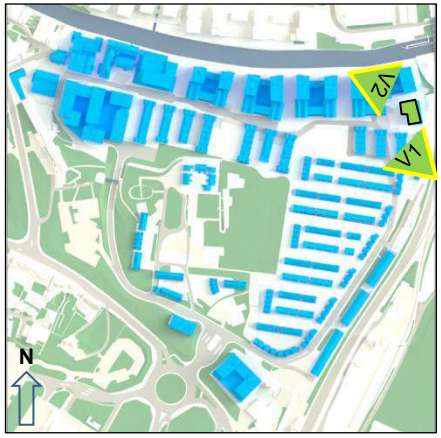
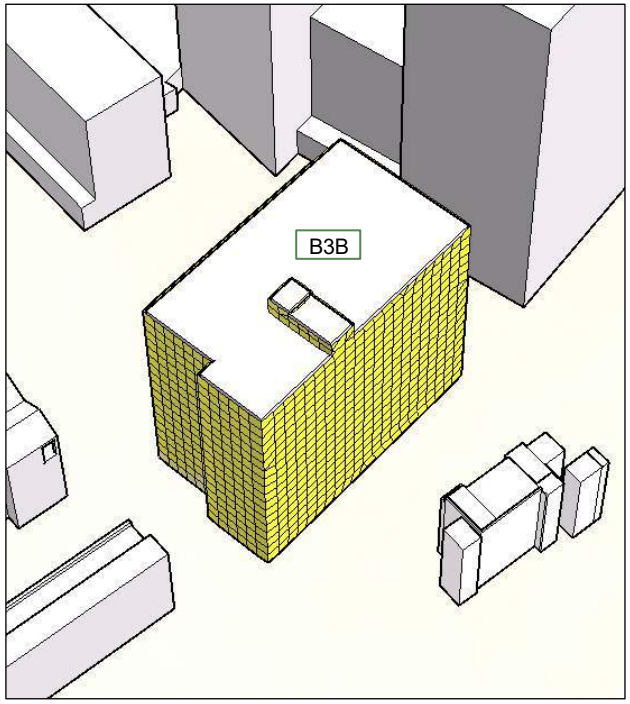
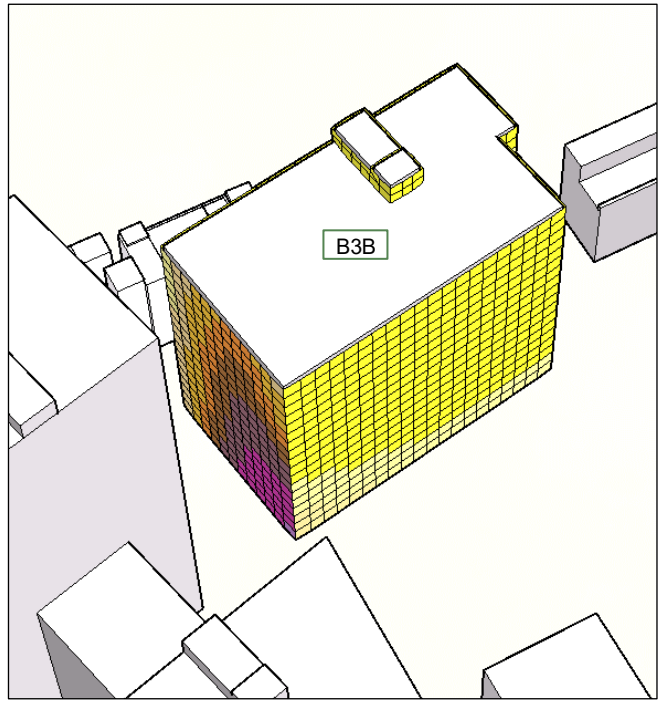




Figure 10 – Location of B3B




View 1 from south-east




View 2 from north-west

## D10 DAYLIGHT POTENTIAL – B4

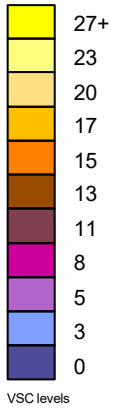
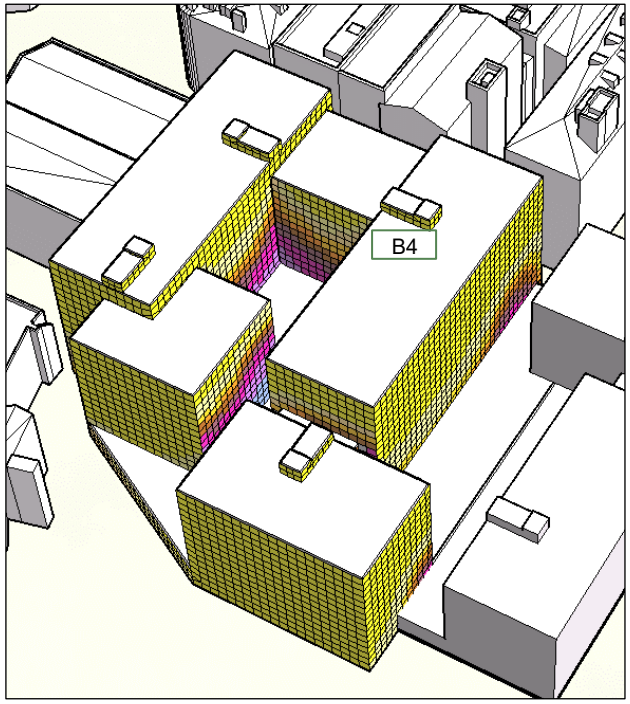
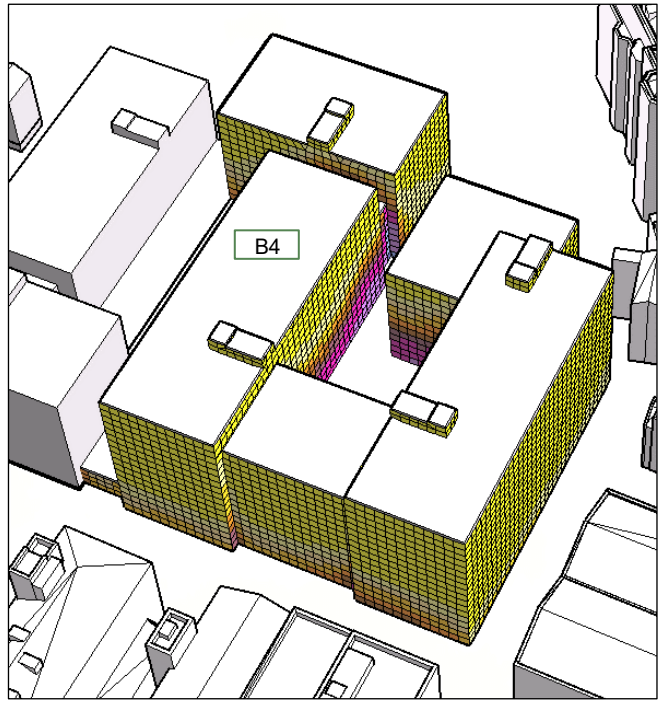




Figure 11 – Location of B4

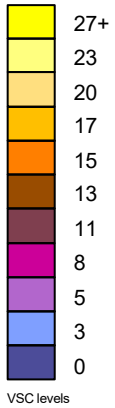



View 1 from south-east




View 2 from north-west

## D11 DAYLIGHT POTENTIAL – B5



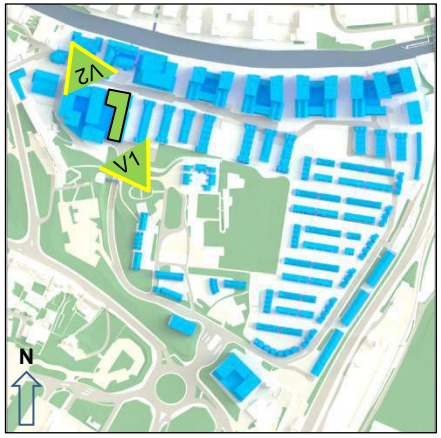
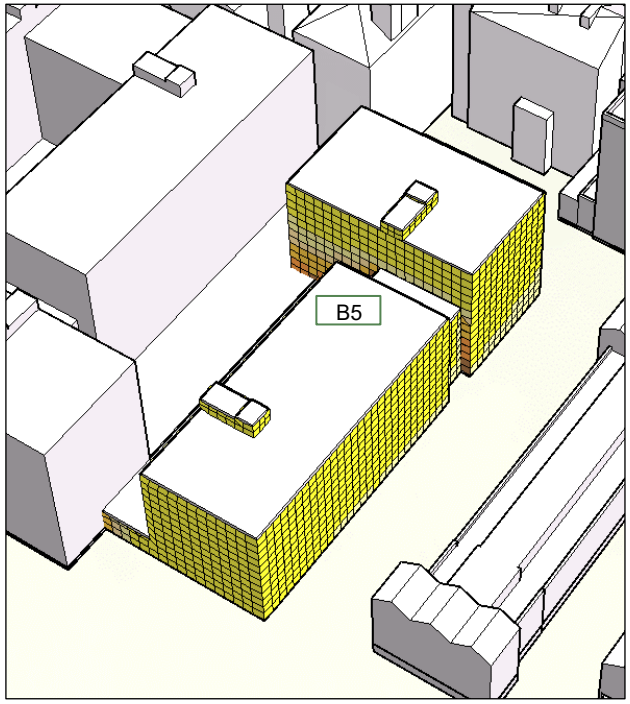
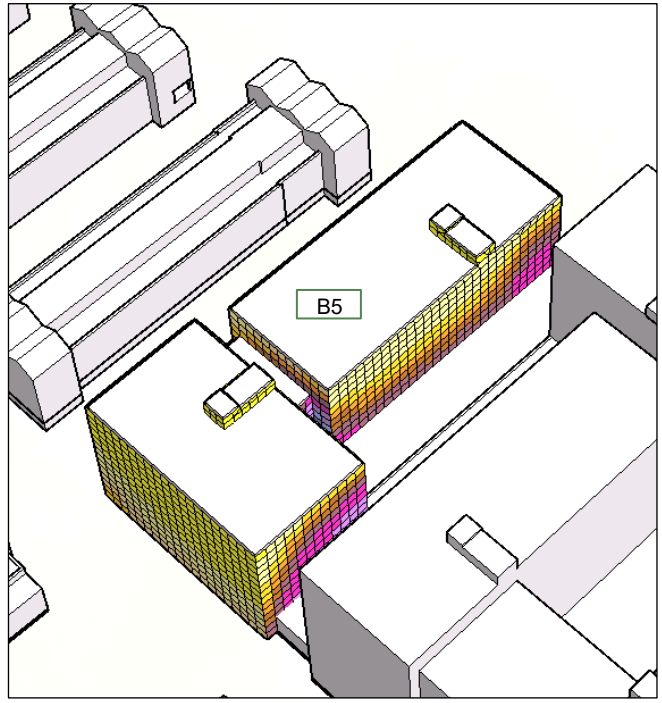




Figure 12 – Location of B5




View 1 from south-east




View 2 from north-west

## D12 DAYLIGHT POTENTIAL – H1A (HOUSING AREA 1)

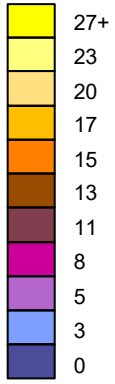
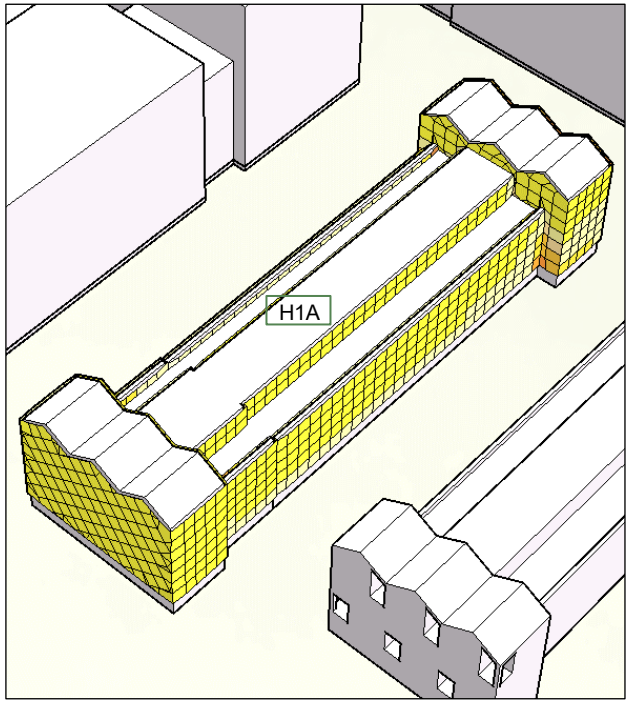
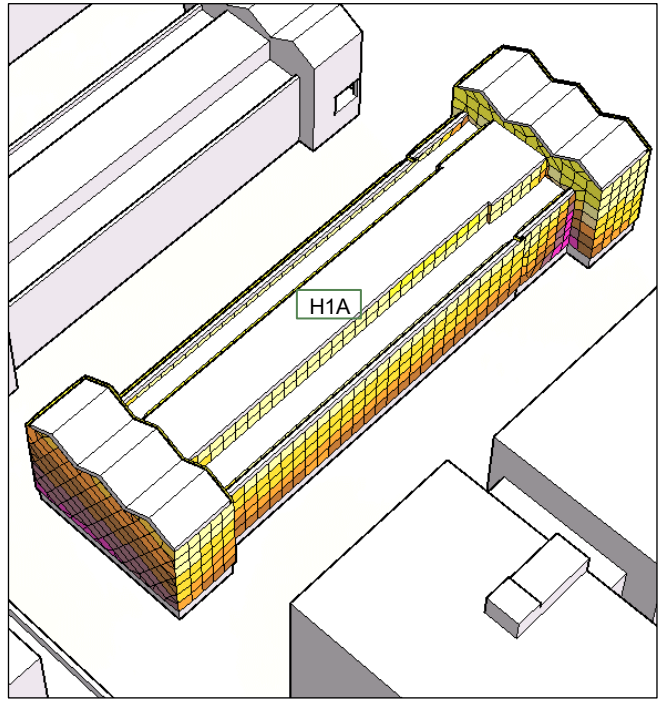




Figure 13 – Location of H1A




View 1 from south-east

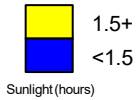



View 2 from north-west

**APPENDIX E**

**SUNLIGHT EXPOSURE FAÇADE STUDIES WITHIN THE PROPOSED SCHEME**

## E1 SUNLIGHT EXPOSURE – B209



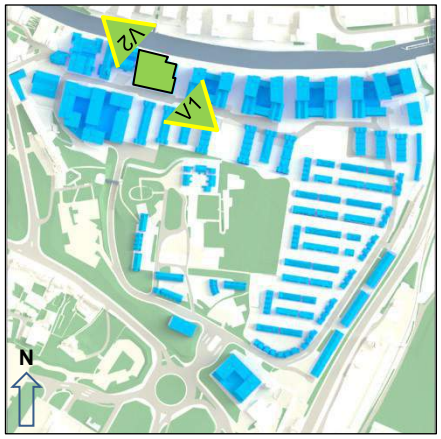
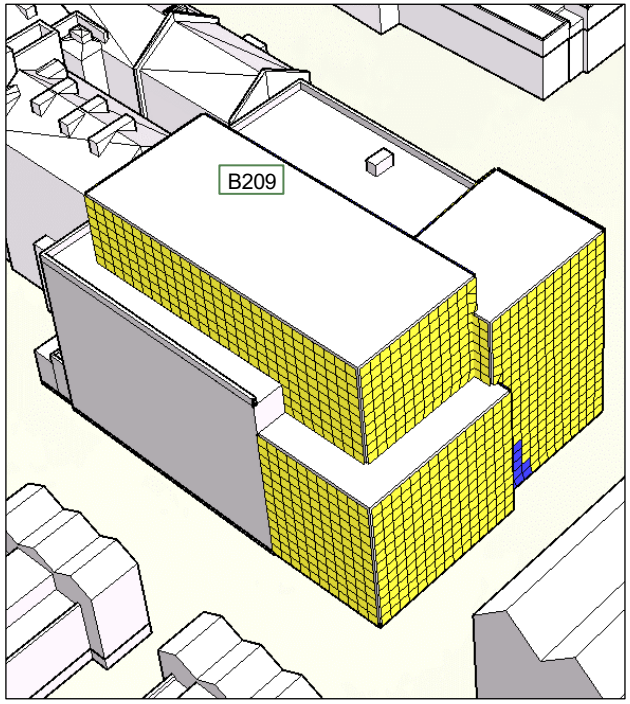
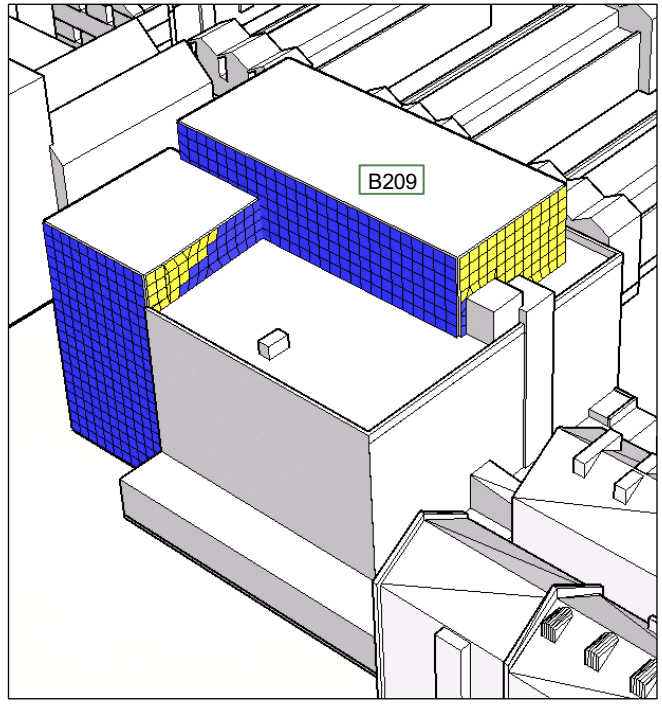




Figure 14 – Location of B209




View 1 from south-east




View 2 from north-west

## E2 SUNLIGHT EXPOSURE – B2A

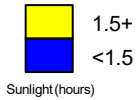
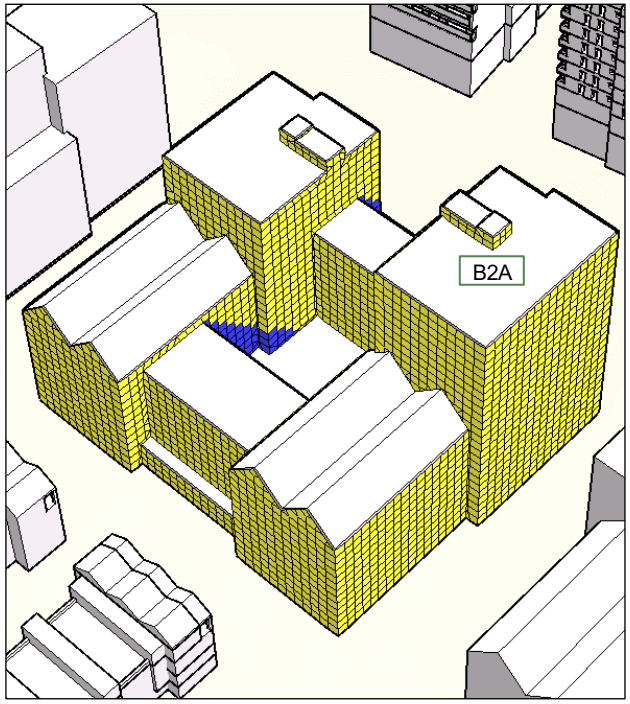
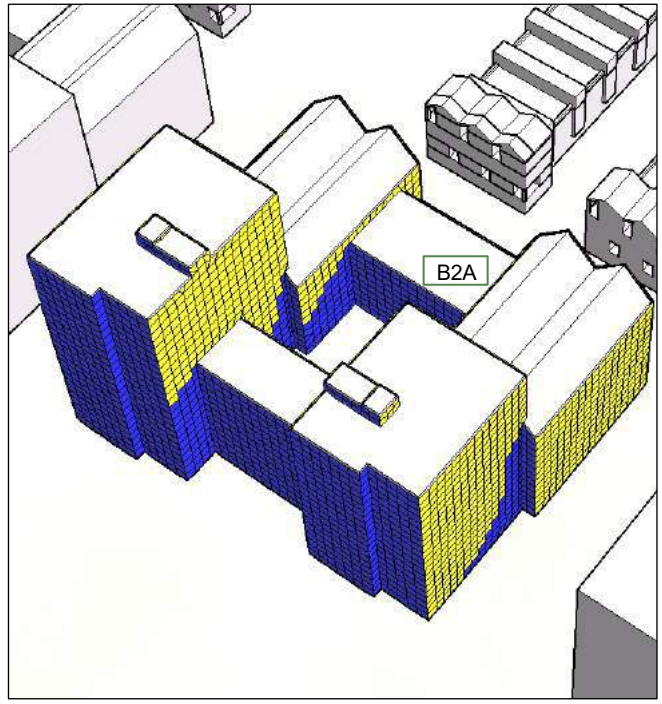




Figure 15 – Location of B2A

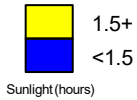



View 1 from south-east




View 2 from north-west

## E3 SUNLIGHT EXPOSURE – B2B



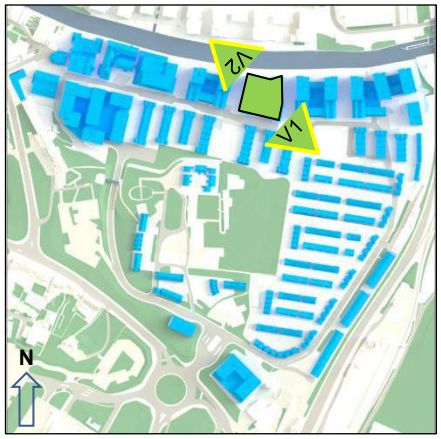
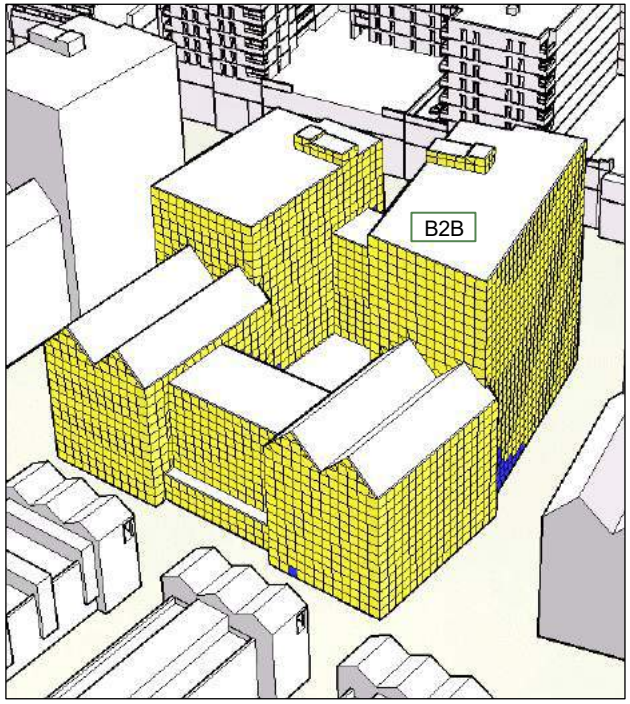
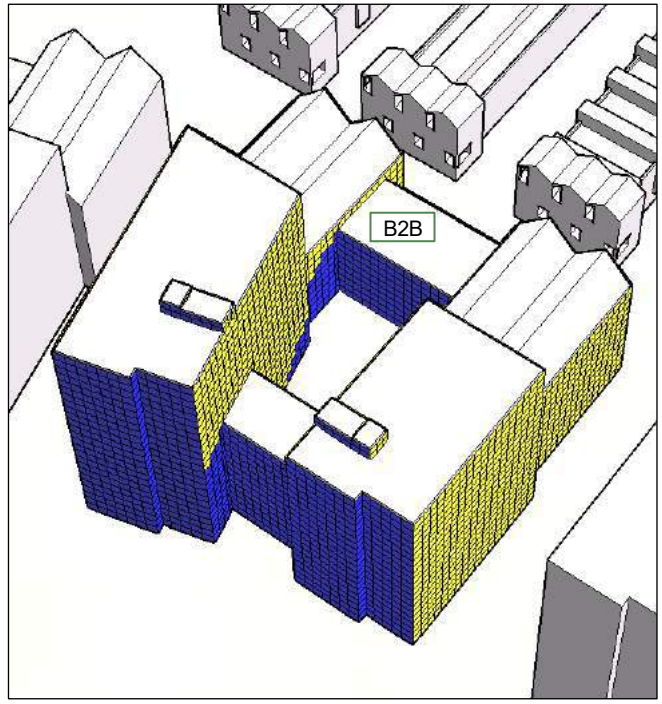




Figure 16 – Location of B2B




View 1 from south-east




View 2 from north-west

## E4 SUNLIGHT EXPOSURE – B2C

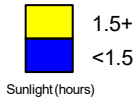
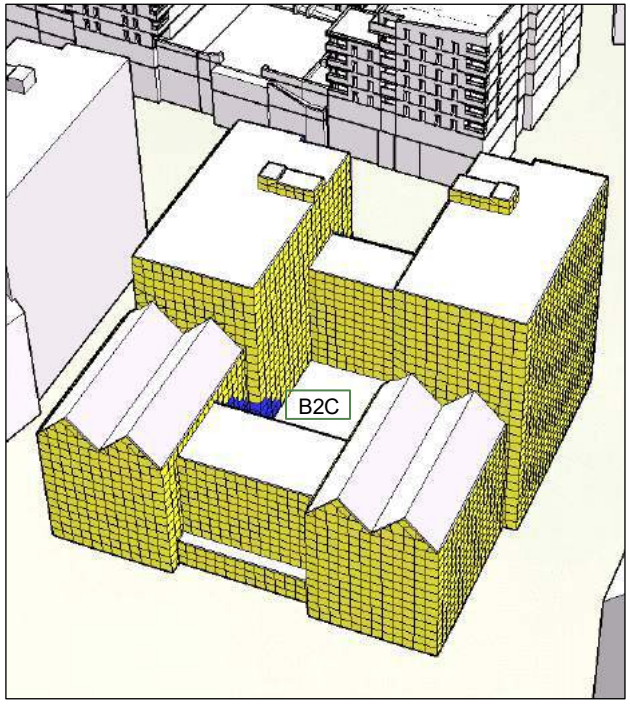
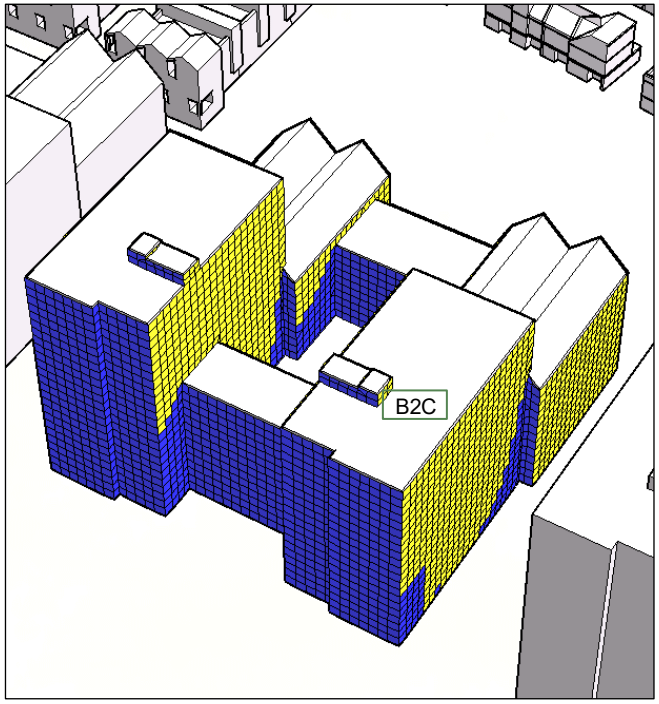




Figure 17 – Location of B2C

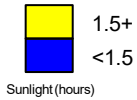



View 1 from south-east




View 2 from north-west

## E5 SUNLIGHT EXPOSURE – B3A



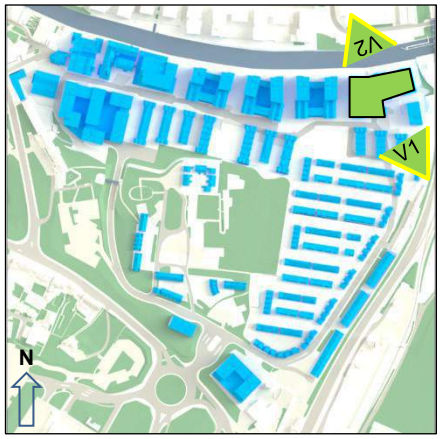
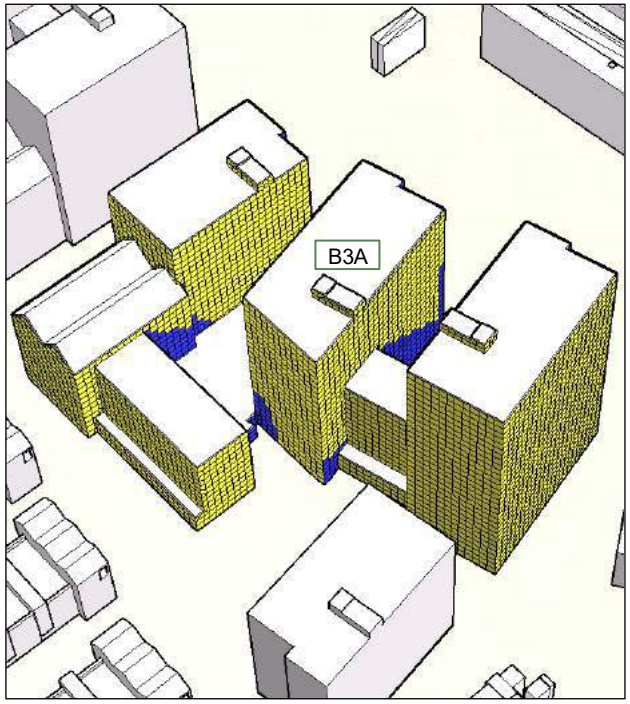
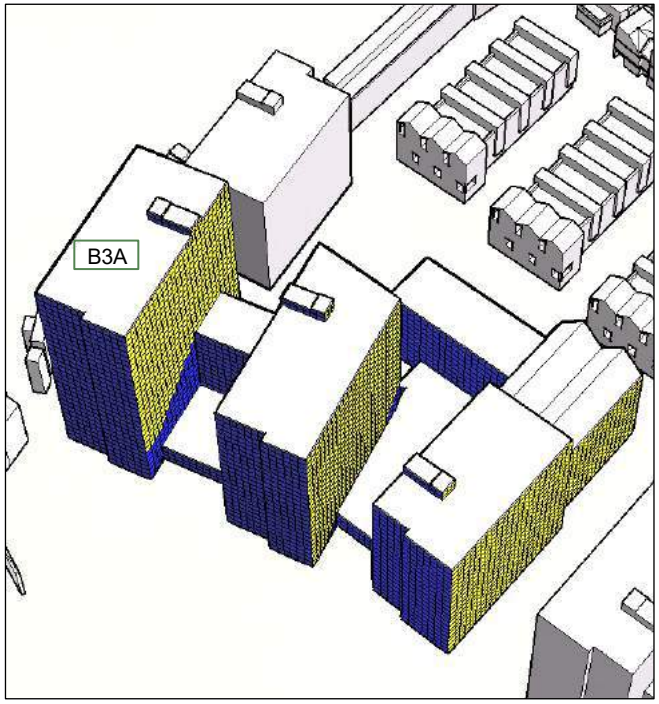




Figure 18 – Location of B3A

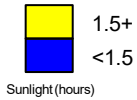



View 1 from south-east




View 2 from north-west

## E6 SUNLIGHT EXPOSURE – B3B



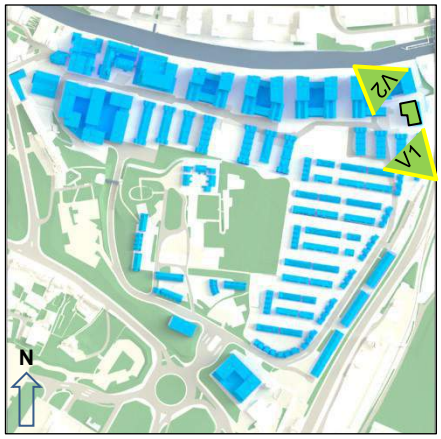
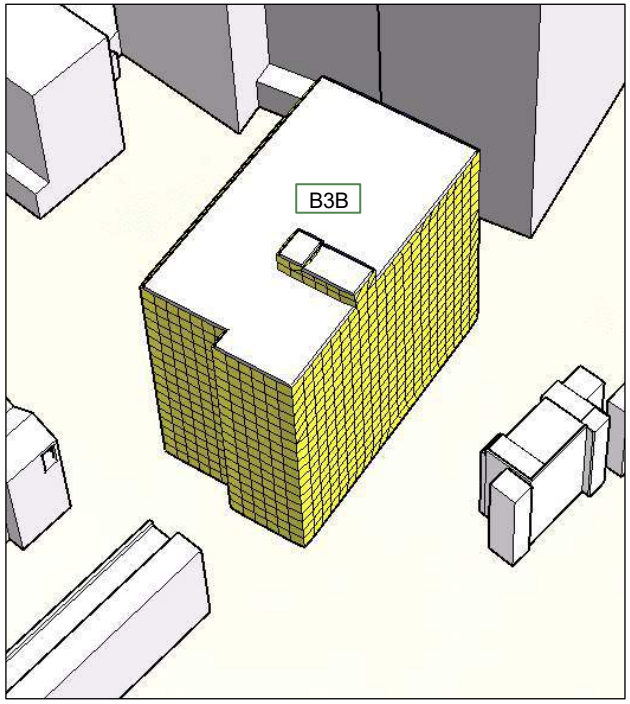
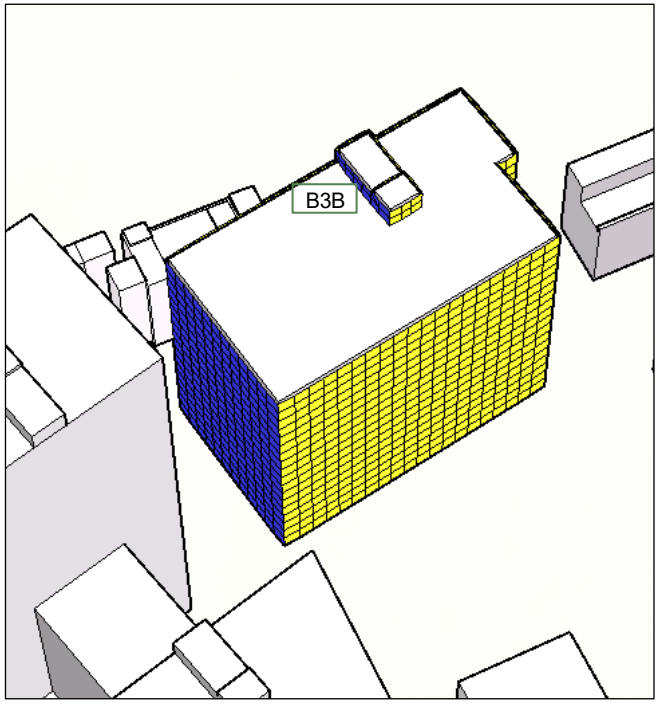




Figure 19 – Location of B3B




View 1 from south-east




View 2 from north-west

## E7 SUNLIGHT EXPOSURE – B4

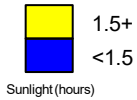
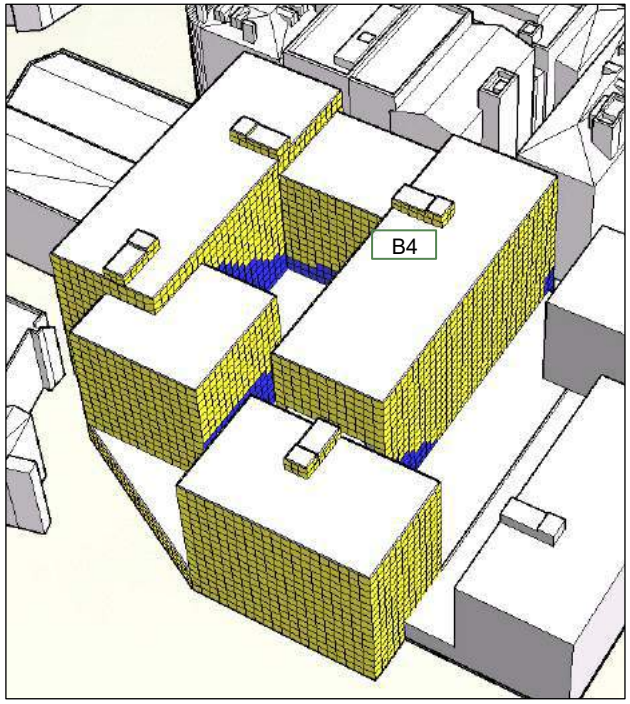
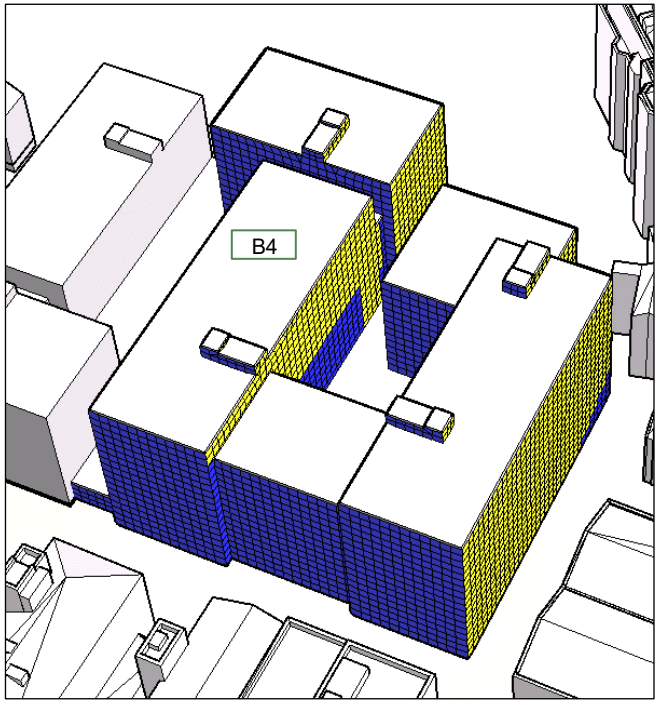




Figure 20 – Location of B4

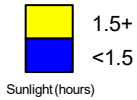



View 1 from south-east




View 2 from north-west

## E8 SUNLIGHT EXPOSURE – B5



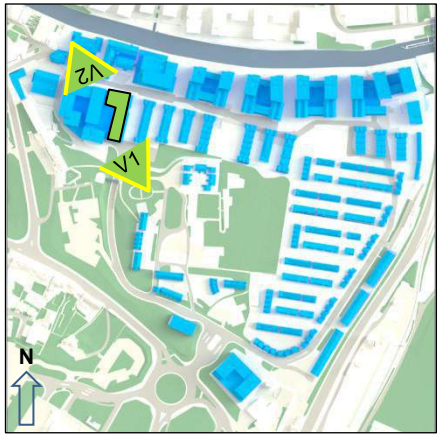
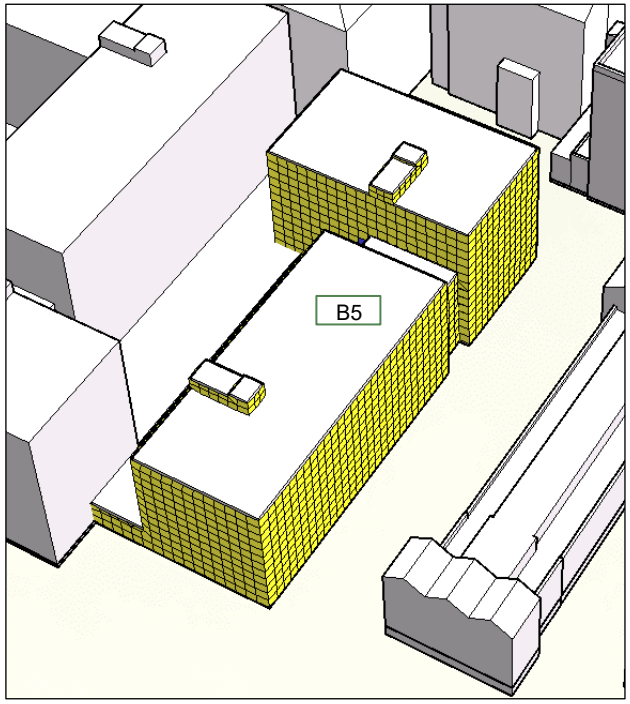
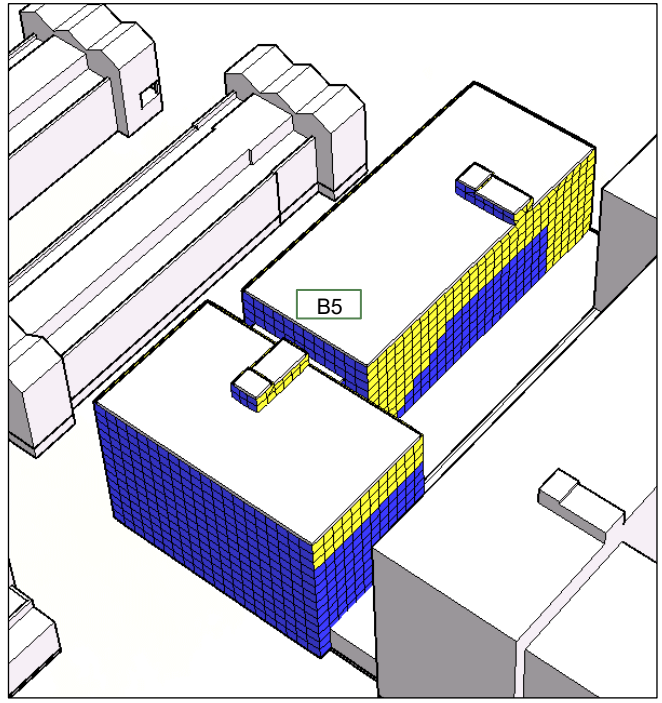




Figure 21 – Location of B5




View 1 from south-east




View 2 from north-west

## E9 SUNLIGHT EXPOSURE – H1A (HOUSING AREA 1)

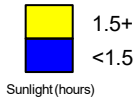
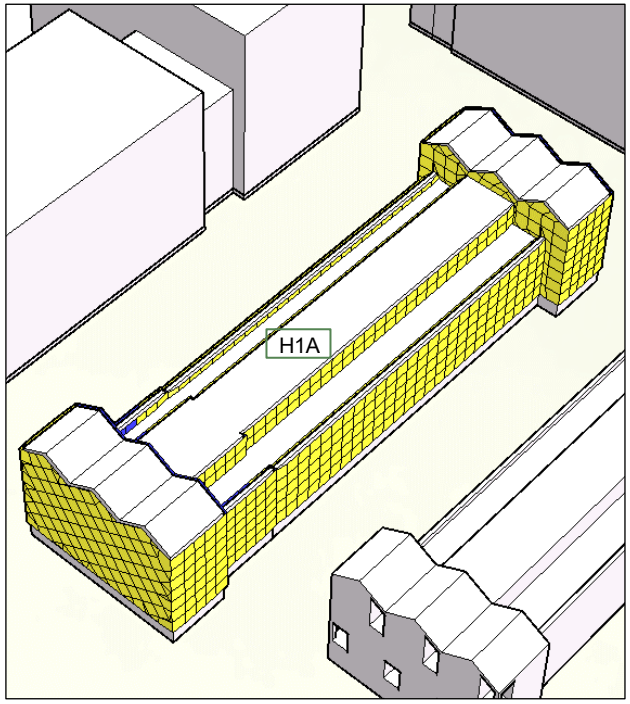
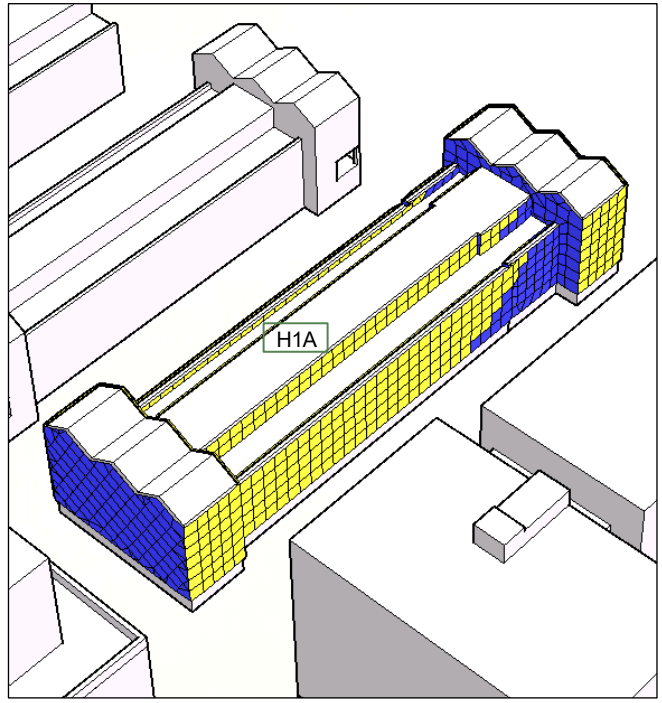




Figure 22 – Location of H1A



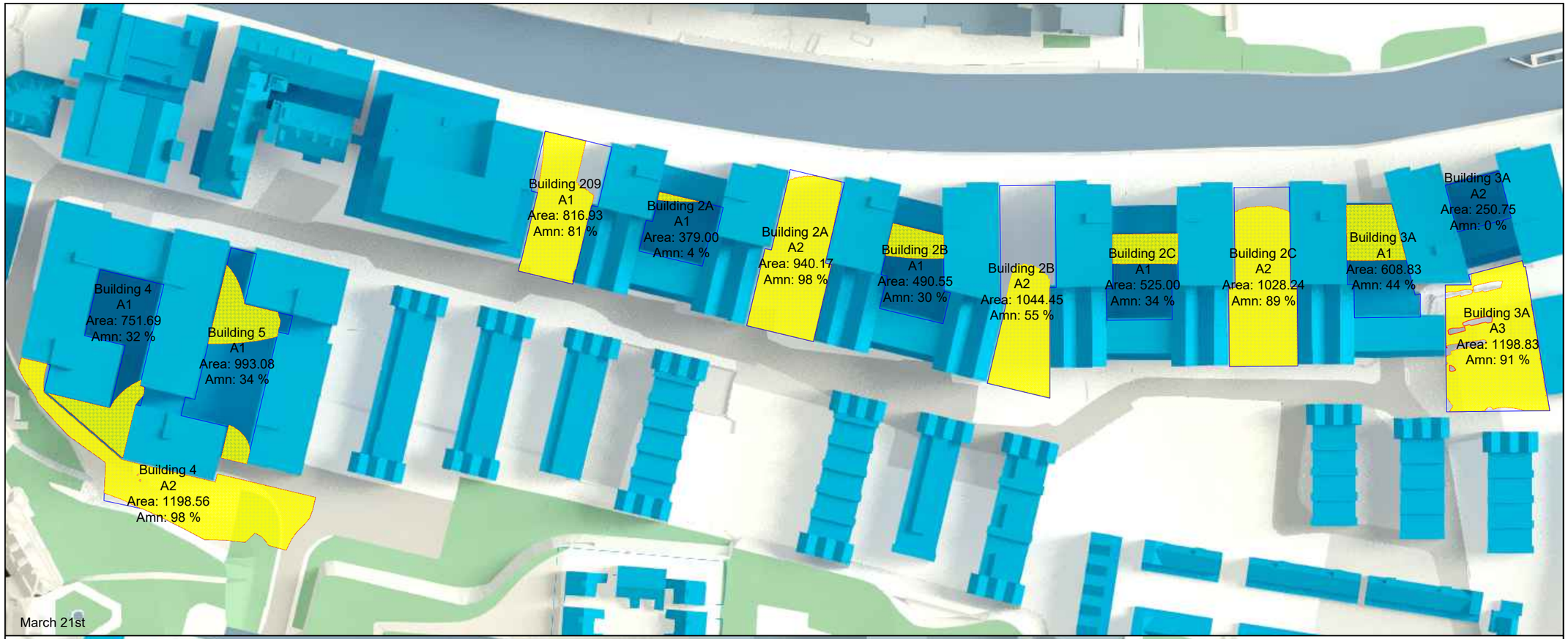

View 1 from south-east




View 2 from north-west

**APPENDIX F**

**OVERSHADOWING DRAWINGS WITHIN THE PROPOSED SCHEME**






DO NOT SCALE

SOURCES OF INFORMATION:

JTP Studios Illustrative and Parameter schemes received on 28/06/2022

Zmapping Limited 3d context model received on 10/06/2022

N

KEY

Amenity area

Proposed area of direct sunlight

| REV | DETAILS | DATE | BY |
|---|---|---|---|
| A | * | * | * |
| | | | |
| | | | |

CLIENT
Fuel Properties

PROJECT
Carrow Works

DRAWING TITLE
Permanent Overshadowing
Illustrative Massing

| SCALE | DATE |
|---|---|
| [Not to Scale] | Jul-22 |
| DRAWN BY | CHECKED BY |
| KB | JW |

| DWG No. | REV. |
|---|---|
| D+S /1/ 701 | |

CONSIL