

Daylight and sunlight report for the proposed
development at

St Michael's, Seafront Quarter, Dun Laoghaire, Dublin



Internal daylight and sunlight report

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1. Executive summary

1.1. Scope

1.1.1. We have been instructed by Fitzwilliam DL Ltd to determine whether the proposed development at **St Michael's, Seafront Quarter, Dun Laoghaire, Dublin** will receive sufficient levels of daylight and sunlight amenity.

1.1.2. We have also undertaken daylight and sunlight assessments to determine the effects of the proposed development on the existing surrounding buildings, the results and conclusions of which are contained within a separate report for clarity.

Development Description

'The proposed development will consist of the demolition of an existing 2 no. storey house on the site and the construction of 102 no. build-to-rent residential apartments (80 no. 1-bed and 22 no. 2-bed units) across 2 no. buildings (Building 01 and Building 02), along with ancillary residential amenities and a publicly accessible café on a c. 0.42ha site. Building 01 to the north extends to part 5, part 6, part 8 and part 13 no. storeys in height. Building 02 to the south extends to part 8, part 9 no. storeys in height, with setback 9th storey.

Residential amenity space in the form of a reception, coworking/study space, gym, games area, lounge/kitchen area, and multi-purpose recreational space is provided at ground floor level of Building 01, alongside a reception and postal storage area. External roof terraces are included at storeys 6 and 9 at Building 01, with an enclosed glazed amenity space at 13th storey level, with external terrace. An external roof terrace is provided at 9th storey level at Building 02.

*The development includes a vehicle **right of way providing access to St. Michael's Hospital** along the western perimeter of the site, accessed from Crofton Road. This provides access to 3 no. car parking spaces (including 1 no. disabled space) located between the two buildings. A secondary right of way is provided via a landscaped pedestrian route along **the eastern perimeter of the site providing access to St. Michael's Hospital**. A total of 150 no. bicycle parking spaces are provided at the ground floor level of Building 02 (alongside a bicycle repair area), 26 no. within the central courtyard and 8 no. adjacent to the café at the northern perimeter.*

The development also includes an ESB substation, bin store, services and drainage infrastructure, boundary treatments, access provision at Crofton and all ancillary development works necessary to facilitate the development'.

1.2. Assessment criteria

1.2.1. To ensure that this assessment can be appropriately evaluated against Dun Laoghaire Rathdown County **Council's planning policy and** associated guidance documents, daylight and sunlight calculations have been undertaken in accordance with the BRE guide - Site Layout Planning for Daylight and Sunlight – a guide to good practice 2011, 2nd Edition) and BS8206-2: 2008 - Lighting for Buildings – Part 2: Code of Practice for Daylighting to which the BRE guide refers. The standards and tests applied are briefly described in Appendix A.

- 1.2.2. The guidelines have been drafted primarily for use with low density suburban developments and should therefore be used flexibly when dealing with dense urban sites, **a fact recognised by the BRE Report's author Dr Paul Littlefair notes in the introduction:**

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

1.3. Summary of analysis of daylight, sunlight and overshadowing for the new development

Internal daylight

- 1.3.1. Of the 223 rooms assessed for Average Daylight Factor (ADF), 198 **will meet the BRE's numerical values (89% overall)**. This demonstrates that the vast majority of rooms within the proposed development will receive adequate levels of daylight.
- 1.3.2. We have also assessed the rooms for Daylight Distribution (DD) which gives an indication of how far direct skylight will penetrate into a room. The results show that 188 of the 223 rooms will meet the **BRE's numerical values (84% overall)**. This again demonstrates that the vast majority of the rooms will receive adequate levels of daylight amenity. It should be noted that 13 rooms fall 10% marginally short of the target value and are therefore considered to also achieve reasonable levels of daylight.

Internal sunlight

- 1.3.3. We have assessed the sunlight availability to the 63 main living rooms with windows oriented within 90 degrees of due south. Of these, 35 will receive levels of sunlight in line **with the BRE's numerical values**.
- 1.3.4. Of the 28 rooms which fall short of the numerical criteria, 14 will receive reasonable levels of annual sunlight, achieving between 22% and 32% Annual Probable Sunlight House (APSH).
- 1.3.5. 11 of the 28 rooms will achieve reasonable levels of sunlight during the winter months (between September and March), with levels between 5% and 13%.
- 1.3.6. The majority of shortfalls are located within Block 1, as they are limited slightly by Block 2 which is located to the south. However, it is inevitable when designing apartment blocks that some rooms will not have access to greater levels of sunlight, a fact which the BRE acknowledges at paragraph 3.1.8 which states, **"for larger developments of flats, especially those with site constraints, it may not be possible to every living room facing within 90 degrees of south"**.
- 1.3.7. A number of main living rooms are oriented with their main windows facing north and therefore will have limited access to sunlight. However, the BRE guide states at paragraph 3.1.7, **"The aim should be to minimise the number of dwellings whose living rooms face solely north, north east or north west, unless there is some compensating factor such as an appealing view to the north"**.

- 1.3.8. In this instance, with the Dun Laoghaire Harbour located to the north of the proposed development, it is logical to align a number of the dwellings with this appealing view.

Overshadowing

- 1.3.9. The proposed development contains 2 external amenity areas, one at fifth and one at eighth floor level on Block 1. We have assessed these areas for sunlight availability using the Permanent Overshadowing (PO) assessment methodology.

- 1.3.10. The results of the analysis **demonstrate that both of these areas will meet the BRE's** numerical values for sunlight, with 96% and 97% of their areas able to receive 2 hours of sunlight on 21 March (spring equinox).

- 1.3.11. Therefore, the proposed development will provide two well sunlit external amenity spaces for residents to utilise.

1.4. Overall

- 1.4.1. In overall terms, the proposed development has been designed to ensure that the residential dwellings will receive adequate levels of daylight and sunlight. The vast **majority of rooms will meet the BRE's** numerical criteria for both ADF and DD, providing well daylit spaces for residents to enjoy.

- 1.4.2. The split block design allows more rooms and windows to receive daylight and sunlight **when compared to a traditional rectangular or 'bookend' style massing**, as light can reach the development from all sides.

- 1.4.3. **While there are a small number of rooms which fall short of the BRE's numerical targets**, it is noted that they do so marginally and will still receive reasonable levels of daylight and sunlight. Furthermore, the BRE guide itself calls for flexibility in applying the numerical criteria, particularly when designing large groups of flats.

- 1.4.4. Overall, the proposed development has utilised the site in a manner which adheres to the methodologies given in the BRE guide, and has been designed to achieve the appropriate levels of daylight & sunlight within the proposed dwellings.

1.5. Scope

- 1.5.1. We have been instructed by Fitzwilliam DL Ltd to determine whether the proposed development at **St Michael's, Seafront Quarter**, Dun Laoghaire, Dublin will receive sufficient levels of daylight and sunlight amenity.

1.6. Planning policy

1.6.1. The Dun Laoghaire-Rathdown Development Plan 2016-2022 – section 8.2.3.1 states:

Quality Residential Design

The objective of Dún Laoghaire-Rathdown County Council is to achieve high standards of design and layout to create and foster high quality, secure and attractive areas for living. The following criteria will be taken into account when assessing applications:

Levels of privacy and amenity, the relationship of buildings to one another, including consideration of overlooking, sunlight/daylight standards and the appropriate use of screening devices.

1.6.2. **The Government of Ireland document "Urban Development and Building Heights, Guidelines for Planning Authorities" states at section 3.2:**

Development Management Criteria

At the scale of the site/building

The form, massing and height of proposed developments should be carefully modulated so as to maximise access to natural daylight, ventilation and views and minimise overshadowing and loss of light.

Appropriate and reasonable regard should be taken of quantitative performance approaches to daylight provision outlined in guides like the Building Research Establishment's 'Site Layout Planning for Daylight and Sunlight' (2nd edition) or BS 8206-2: 2008 – 'Lighting for Buildings – Part 2: Code of Practice for Daylighting'.

Where a proposal may not be able to fully meet all the requirements of the daylight provisions above, this must be clearly identified and a rationale for any alternative, compensatory design solutions must be set out, in respect of which the planning authority or An Bord Pleanála should apply their discretion, having regard to local factors including specific site constraints and the balancing of that assessment against the desirability of achieving wider planning objectives. Such objectives might include securing comprehensive urban regeneration and or an effective urban design and streetscape solution.

1.6.3. The "Sustainable Urban Housing: Design Standards for New Apartments Guidelines" 2018 states:

6.5 The provision of reasonable levels of natural light in new apartment developments is an important planning consideration as it contributes to the liveability and amenity enjoyed by residents. In assessing development proposals, planning authorities must however weigh up the overall quality of the design and layout of the scheme and the measures proposed to maximise daylight provision with the location of the site and the need to ensure an appropriate scale of urban residential development.

6.6 Planning authorities should have regard to quantitative performance approaches to daylight provision outlined in guides like the BRE guide 'Site Layout Planning for Daylight and Sunlight' (2nd edition) or BS 8206-2: 2008 - 'Lighting for Buildings - Part 2: Code of Practice for Daylighting' when undertaken by development proposers which offer the capability to satisfy minimum standards of daylight provision.

6.7 Where an applicant cannot fully meet all of the requirements of the daylight provisions above, this must be clearly identified and a rationale for any alternative, compensatory design solutions must be set out, which planning authorities should apply their discretion in accepting taking account of its assessment of specific (sic). This may arise due to a design constraints associated with the site or location and the balancing of that assessment against the desirability of achieving wider planning objectives. Such objectives might include securing comprehensive urban regeneration and or an effective urban design and streetscape solution.

1.7. Assessment criteria

1.7.1. To ensure that this assessment can be appropriately evaluated against Dun Laoghaire-Rathdown County Council's planning policy, daylight and sunlight calculations have been undertaken in accordance with the 'BRE guide' and also on BS8206-2: 2008 to which the BRE guide refers. The standards and tests applied are briefly described in Appendix A.

1.8. Limitations

1.8.1. Our assessment is based on the scheme drawings provided by Reddy Architecture as listed below:

| Title | Date |
|--|----------------|
| REDDY ARCHITECTURE | |
| 3582 St Michaels Hospital, Dun Laoghaire - Elevations.dwg | 17 August 2020 |
| 3582 St.Michaels Hospital, Dun Laoghaire_ITM15_200_2D.dwg | 17 August 2020 |
| P18-143D-RAU-01-ZZ-DR-A-PL1-31001-P7-Building 01 - Ground, Mezza.dwg | 17 August 2020 |
| P18-143D-RAU-01-ZZ-DR-A-PL1-31002-P7-Building 01 - Third, Fourth.dwg | 17 August 2020 |
| P18-143D-RAU-01-ZZ-DR-A-PL1-31003-P7-Building 01 -Seventh, Eigh.dwg | 17 August 2020 |
| P18-143D-RAU-01-ZZ-DR-A-PL1-31004-P7-Building 01 - Roof Plan.dwg | 17 August 2020 |

| Title | Date |
|--|----------------|
| P18-143D-RAU-01-ZZ-DR-A-PL1-32010-P7-Building 01 -Elevations 01.dwg | 17 August 2020 |
| P18-143D-RAU-01-ZZ-DR-A-PL1-32011-P7-Building 01 -Elevations 02.dwg | 17 August 2020 |
| P18-143D-RAU-02-ZZ-DR-A-PL1-31001-P7-Building 02 -Ground, First.dwg | 17 August 2020 |
| P18-143D-RAU-02-ZZ-DR-A-PL1-31002-P7-Building 02 - Fourth, Fifth.dwg | 17 August 2020 |
| P18-143D-RAU-02-ZZ-DR-A-PL1-31003-P7-Building 02 - Roof Plan.dwg | 17 August 2020 |
| P18-143D-RAU-02-ZZ-DR-A-PL1-32010-P7-Building 02 -Elevations 01.dwg | 17 August 2020 |
| P18-143D-RAU-ZZ-ZZ-DR-A-PL1-31003-P7-Proposed Site Plan.dwg | 17 August 2020 |
| P18-143D-RAU-ZZ-ZZ-DR-A-PL1-33001-P7-Sections A-A and B-B.dwg | 17 August 2020 |
| P18-143D-RAU-ZZ-ZZ-DR-A-PL1-33002-P7-Section C-C and Section D-D.dwg | 17 August 2020 |
| Proposed Building 01 - L01 - First Level Floor Plan.dwg | 17 August 2020 |
| Proposed Building 01 - L02 - Second Floor Plan.dwg | 17 August 2020 |
| Building 02 - L01 - First Floor Plan.dwg | 17 August 2020 |
| VU City | |
| 200157_St_Michael's_Seafront_Quarter_Dublin_MASTER.dwg | 08 June 2020 |

2. Assessment and results – daylighting, sunlighting and overshadowing for the proposed development

Internal daylight

- 2.1.1. Average Daylight Factor (ADF) analysis has been undertaken for the principal habitable rooms within the proposed development. The full numerical ADF results are shown in full in Appendix D. Below is a summary of our findings:

| Building Address | No. of Rooms Analysed | Meets BRE | | Total Percentage |
|------------------|-----------------------|-----------|----|------------------|
| | | Yes | No | |
| Proposed Block 1 | 126 | 109 | 17 | 87 |
| Proposed Block 2 | 97 | 89 | 8 | 92 |
| TOTAL | 223 | 198 | 25 | 89 |

- 2.1.2. The Daylight Distribution (DD) results are shown in full numerical form in Appendix D. Below is a summary of our findings:

| Building Address | No. of Rooms Analysed | Meets BRE | | Total Percentage |
|------------------|-----------------------|-----------|----|------------------|
| | | Yes | No | |
| Proposed Block 1 | 126 | 99 | 27 | 79 |
| Proposed Block 2 | 97 | 89 | 8 | 92 |
| TOTAL | 223 | 188 | 35 | 84 |

2.2. Internal sunlight

- 2.2.1. Annual Probable Sunlight Hours (APSH) analysis has been undertaken to the principal habitable rooms oriented within 90 degrees of due south. The full numerical APSH results are shown in full in Appendix E. Below is a summary of our findings:

| Building Address | No. of Rooms Analysed | BRE Compliant | | Total Percentage BRE Compliant |
|------------------|-----------------------|---------------|----|--------------------------------|
| | | Yes | No | |
| Proposed Block 1 | 33 | 13 | 20 | 39 |
| Proposed Block 2 | 30 | 22 | 8 | 73 |
| TOTAL | 63 | 35 | 28 | 56 |

2.3. Overshadowing

- 2.3.1. The location of the proposed amenity areas within the development are shown on the reference plan in Appendix F. The table below summarises the results.

| Floor Ref. | Amenity Area Size sqm | Lit Area Proposed | Percentage | Meets BRE |
|------------|-----------------------|-------------------|------------|-----------|
| Fifth | 98.46 | 94.20 | 96% | YES |
| Eighth | 147.06 | 142.86 | 97% | YES |

- 2.3.2. Overall the results of the technical analysis demonstrate that the proposed development has been thoughtfully designed in order to provide the new dwellings with adequate levels of daylight and sunlight. **The vast majority of properties will meet the BRE's** numerical values and those that fall short do so marginally. The BRE guide itself recognises that not all measures can be met for every development project, and as noted in the executive summary of this report, contextual factors should be considered.

Appendix A

Assessments to be applied



Introduction

The main purpose of the guidelines in the Building Research Establishment Report "Site Layout Planning for Daylight and Sunlight – a guide to good practice 2011, 2nd Edition" ("the BRE guide") is to assist in the consideration of the relationship of new and existing buildings to ensure that each retains a potential to achieve good daylighting and sunlighting levels. That is, by following and satisfying the tests contained in the guidelines, new and existing buildings should be sufficiently spaced apart in relation to their relative heights so that both have the potential to achieve good levels of daylight and sunlight. The guidelines have been drafted primarily for use with low density suburban developments and should therefore be used flexibly when dealing with dense urban sites and extensions to existing buildings, a fact recognised by the BRE Report's author in the Introduction where Dr Paul Littlefair says:

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

In many cases in low-rise housing, meeting the criteria for daylight and sunlight may mean that the BRE criteria for other amenity considerations such as *privacy* and *sense of enclosure* are also satisfied.

The BRE guide states that recommended minimum privacy distances (in cases where windows of habitable rooms face each other in low-rise residential property), as defined by each individual Local Authority's policies, vary widely, from 18-35m¹. For two-storey properties a spacing within this range would almost certainly also satisfy the BRE guide's daylighting requirements as it complies with the 25^o rule and will almost certainly satisfy the 'Three times height' test too (as discussed more fully below). However, the specific context of each development will be taken into account and Local Authorities may relax the stated minimum, for instance, in built-up areas where this would lead to an inefficient use of land. Conversely, greater distances may be required between higher buildings, in order to satisfy daylighting and sunlighting requirements. It is important to recognize also that privacy can also be achieved by other means: design, orientation and screening can all play a key role and may also contribute towards reducing the theoretical 'minimum' distance.

A sense of enclosure is also important as the perceived quality of an outdoor space may be reduced if it is too large in the context of the surrounding buildings. In urban settings the BRE guide suggests a spacing-to-height ratio of 2.5:1 would provide a comfortable environment, whilst not obstructing too much natural light: this ratio also approximates the 25^o rule.

Daylight

The criteria for protecting daylight to existing buildings are contained in Section 2.2 and Appendix C of the BRE guide. There are various methods of measuring and assessing daylight and the choice of test depends on the circumstances of each particular window. For example, greater protection should be afforded to windows which serve habitable dwellings and, in particular, those serving living rooms and family kitchens, with a lower requirement required for bedrooms. The BRE guide states that circulation spaces and bathrooms need not be tested as they are not considered to require good levels of daylight. In addition, for rooms with more than one window, secondary windows do not require assessment if it is established that the room is already sufficiently lit through the principal window.

¹ The commonest minimum privacy distance is 21m (Householder Development Consents Review: Implementation of Recommendations – Department for Communities and Local Government – May 2007)

The tests should also be applied to non-domestic uses such as offices and workplaces where such uses will ordinarily have a reasonable expectation of daylight and where the areas may be considered a principal workplace.

The BRE has developed a series of tests to determine whether daylighting levels within new developments and rooms within existing buildings surrounding new developments will satisfy or continue to satisfy a range of daylighting criteria

Note: Not every single window is assessed separately, only a representative sample, from which conclusions may be drawn regarding other nearby dwellings.

Daylighting Tests

'Three times height' test - If the distance of each part of the new development from the existing windows is three or more times its height above the centre of the existing window then loss of light to the existing windows need not be analysed. If the proposed development is taller or closer than this then the 25° test will need to be carried out.

25° test - a very simple test that should only be used where the proposed development is of a reasonably uniform profile and is directly opposite the existing building. Its use is most appropriate for low density well-spaced developments such as new sub-urban housing schemes and often it is not a particularly useful tool for assessing urban and in-fill sites. In brief, where the new development subtends to an angle of less than 25° to the centre of the lowest window of an existing neighbouring building, it is unlikely to have a substantial effect on the diffuse skylight enjoyed by the existing building. Equally, the new development itself is also likely to have the potential for good daylighting. If the angle is more than 25° then more detailed tests are required, as outlined below.

VSC Test - the VSC is a unit of measurement that represents the amount of available daylight from the sky, received at a particular window. It is measured on the outside face of the window. The 'unit' is expressed as a percentage as it is the ratio between the amount of sky visible at the given reference point compared to the amount of light that would be available from a totally unobstructed hemisphere of sky. To put this unit of measurement into perspective, the maximum percentage value for a window with a completely unobstructed outlook (i.e. with a totally unobstructed view through 90° in every direction) is 40%.

The target figure for VSC recommended by the BRE is 27%. A VSC of 27% is a relatively good level of daylight and the level we would expect to find for habitable rooms with windows on principal elevations. However, this level is often difficult to achieve on secondary elevations and in built-up urban environments. For comparison, a window receiving 27% VSC is approximately equivalent to a window that would have a continuous obstruction opposite it which subtends an angle of 25° (i.e. the same results as would be found utilising the 25° Test). Where tests show that the new development itself meets the 27% VSC target this is a good indication that the development will enjoy good daylighting and further tests can then be carried out to corroborate this (see under).

Through research the BRE have determined that in existing buildings daylight (and sunlight levels) can be reduced by approximately 20% of their original value before the loss is materially noticeable. It is for this reason that they consider that a 20% reduction is permissible in circumstances where the existing VSC value is below the 27% threshold. For existing buildings once this has been established it is then necessary to determine whether the distribution of daylight inside each room meets the required standards (see under).

Daylight Distribution (DD) Test – This test looks at the position of the "No-Sky Line" (NSL) – that is, the line that divides the points on the working plane (0.7m from floor level in offices and 0.85m in dwellings and industrial spaces) which can and cannot see the sky. The BRE guide suggests that areas beyond the NSL may look dark and gloomy compared with the rest of the room and BS8206 states that electric lighting is likely to be needed if a significant part of the working plane (normally no more than 20%) lies beyond it.

In new developments no more than 20% of a room's area should be beyond the NSL. For existing buildings the BRE guide states that if, following the construction of a new development, the NSL moves so that the area beyond the NSL increases by more than 20%, then daylighting is likely to be seriously affected.

The guide suggests that in houses, living rooms, dining rooms and kitchens should be tested: bedrooms are deemed less important, although should nevertheless be analysed. In other buildings each main room where daylight is expected should be investigated.

ADF Test – The ADF (Average Daylight Factor) test takes account of the interior dimensions and surface reflectance within the room being tested as well as the amount of sky visible from the window. For this reason it is considered a more detailed and representative measure of the adequacy of light. The minimum ADF values recommended in BS8206 Part 2 are: 2% for family kitchens (and rooms containing kitchens); 1.5% for living rooms; and 1% for bedrooms. This is a test used in assessing new developments, although, in certain circumstances, it may be used as a supplementary test in the assessment of daylighting in existing buildings, particularly where more than one window serves a room.

Room depth ratio test - This is a test for new developments looking at the relative dimensions of each room (principally its depth) and its window(s) to ensure that the rear half of a room will receive sufficient daylight so as not to appear gloomy.

Sunlight

Sunlight is an important 'amenity' in both domestic and non-domestic settings. The way in which a building's windows are orientated and the overall position of a building on a site will have an impact on the sunlight it receives but, importantly, will also have an effect on the sunlight neighbouring buildings receive. Unlike daylight, which is non-directional and assumes that light from the sky is uniform, the availability of sunlight is dependent on direction. That is, as Ireland is in the northern hemisphere, we receive virtually all of our sunlight from the south. The availability of sunlight is therefore dependent on the orientation of the window or area of ground being assessed relative to the position of due south.

In new developments the BRE guide suggests that dwellings should aim to have at least one main living room which faces the southern or western parts of the sky so as to ensure that it receives a reasonable amount of sunlight. Where groups of dwellings are planned the Guide states that site layout design should aim to maximise the number of dwellings with a main living room that meet sunlight criteria. Where a window wall faces within 90° of due south and no obstruction subtends to angle of more than 25° to the horizontal or where the window wall faces within 20° of due south and the reference point has a VSC of at least 27% then sunlighting will meet the required standards: failing that the Annual Probable Sunlight Hours (APSH) need to be analysed. APSH means the total number of hours in the year that the sun is expected to shine on unobstructed ground, allowing for average levels of cloud for the location in question. If the APSH tests reveal that the new development will receive at least one quarter of the available APSH, including at least 5% of APSH during the winter months (from 21 September to 21 March), then the requirements are satisfied. It should be noted that if a room has two windows on opposite walls, the APSH due to each can be added together.

The availability of sunlight is also an important factor when looking at the impact of a proposed development on the existing surrounding buildings. APSH tests will be required where one or more of the following are true:

- The 'Three times height' test is failed (see 'Daylight' above);
- The proposed development is situated within 90° of due south of an existing building's main window wall and the new building subtends to angle of more than 25° to the horizontal;
- The window wall faces within 20° of due south and a point at the centre of the window on the outside face of the window wall (the reference point) has a VSC of less than 27%.

Where APSH testing is required it is similar to the test for the proposed development. That is to say that compliance will be demonstrated where a room receives:

- At least 25% of the APSH (including at least 5% in the winter months), or
- At least 0.8 times its former sunlight hours during either period, or
- A reduction of no more than 4% APSH over the year.

The Guide stresses that the target values it gives are purely advisory, especially in circumstances such as: the presence of balconies (which can overhang windows, obstructing light); when an existing building stands unusually close to the common boundary with the new development and; where the new development needs to match the height and proportion of existing nearby buildings. In circumstances like these a larger reduction in sunlight may be necessary.

The sunlight criteria in the BRE guide primarily apply to windows serving living rooms of an existing dwelling. This is in contrast to the daylight criteria which apply to kitchens and bedrooms as well as living rooms. Having said that, the guide goes on to say that care should be taken not to block too much sun from kitchens and bedrooms. Non-domestic buildings which are deemed to have a requirement for sunlight should also be checked.

Sunlight – Gardens and Open Spaces

As well as ensuring buildings receive a good level of sunlight to their interior spaces, it is also important to ensure that the open spaces between buildings are suitably lit. The recommendations as set out in the BRE guide are meant to ensure that spaces between buildings are not permanently in shade for a large part of the year. Trees and fences over 1.5m tall are also factored into the calculations.

The BRE guidelines state that:

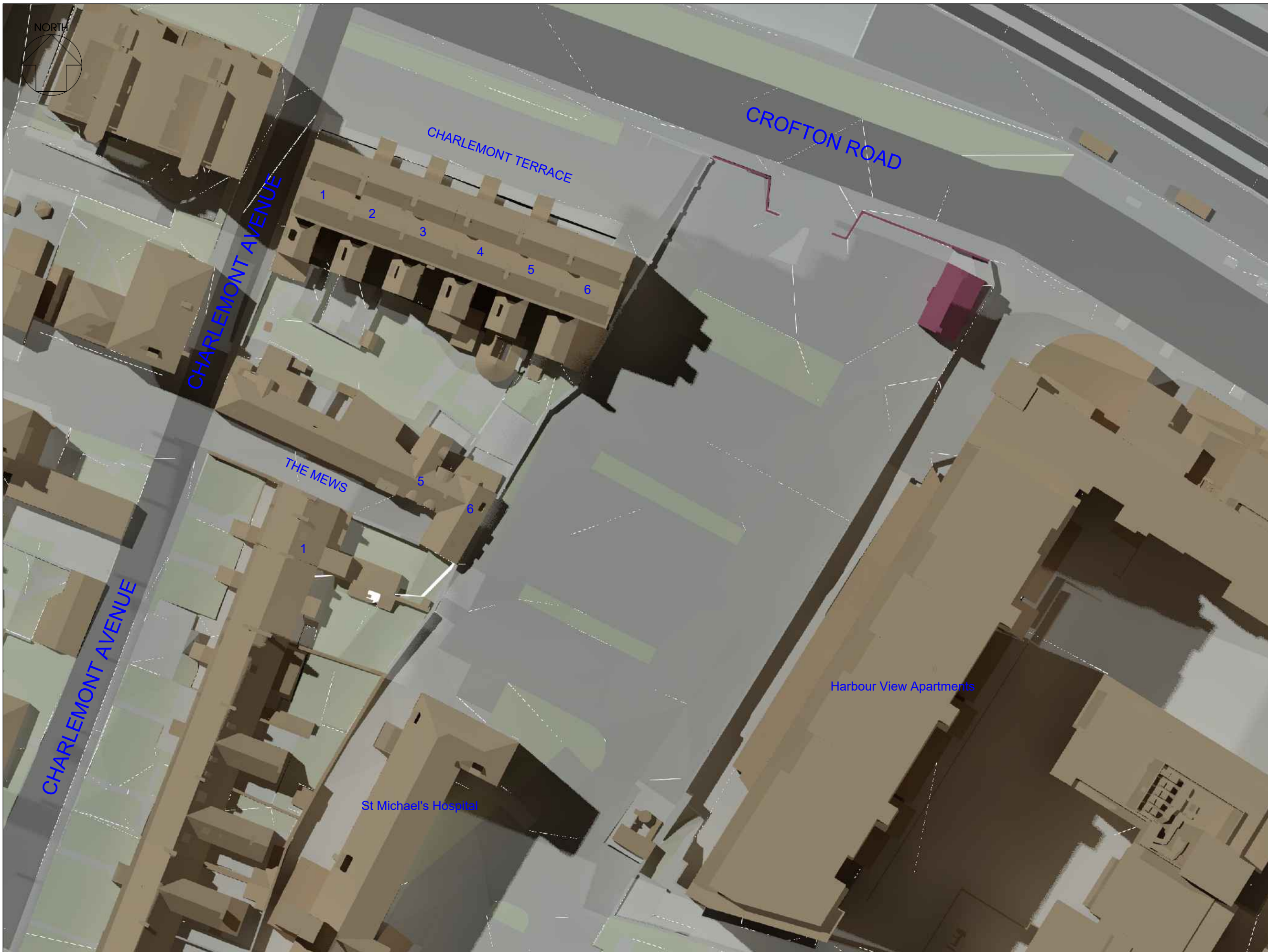
- For a garden or amenity area to appear adequately sunlit throughout the year, at least 50% of the area should receive at least two hours of sunlight on 21 March;
- In addition, if, as result of new development, an existing garden or amenity area does not reach the area target above and the area which can receive two hours of direct sunlight on 21 March is reduced by more than 20% this loss is likely to be noticeable.

Appendix G of the BRE guidelines describes a methodology for calculating sunlight availability for amenity spaces.

Appendix B

Context drawings





SOURCES OF INFORMATION:
 REDDY ARCHITECTURE
 3582 St Michaels Hospital, Dun Laoghaire - Elevations.dwg
 3582 St Michaels Hospital, Dun Laoghaire - ITM15_200_2D.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31001-P7-Building 01 - Ground, Mezza.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31002-P7-Building 01 - Third, Fourth.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31003-P7-Building 01 - Seventh, Eighth.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31004-P7-Building 01 - Roof Plan.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-32010-P7-Building 01 - Elevations 01.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-32011-P7-Building 01 - Elevations 02.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31001-P7-Building 02 - Ground, First.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31002-P7-Building 02 - Fourth, Fifth.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31003-P7-Building 02 - Roof Plan.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-32010-P7-Building 02 - Elevations 01.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31003-P7-Proposed Site Plan.dwg
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 Proposed Building 01 - L01 - First Level Floor Plan.dwg
 Proposed Building 01 - L02 - Second Floor Plan.dwg
 Building 02 - L01 - First Floor Plan.dwg
 Received 17 August 2020
 VU CITY
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TITLE
Existing Site Plan

CLIENT
Reddy Architecture + Urbanism

PROJECT
**St Michaels Church,
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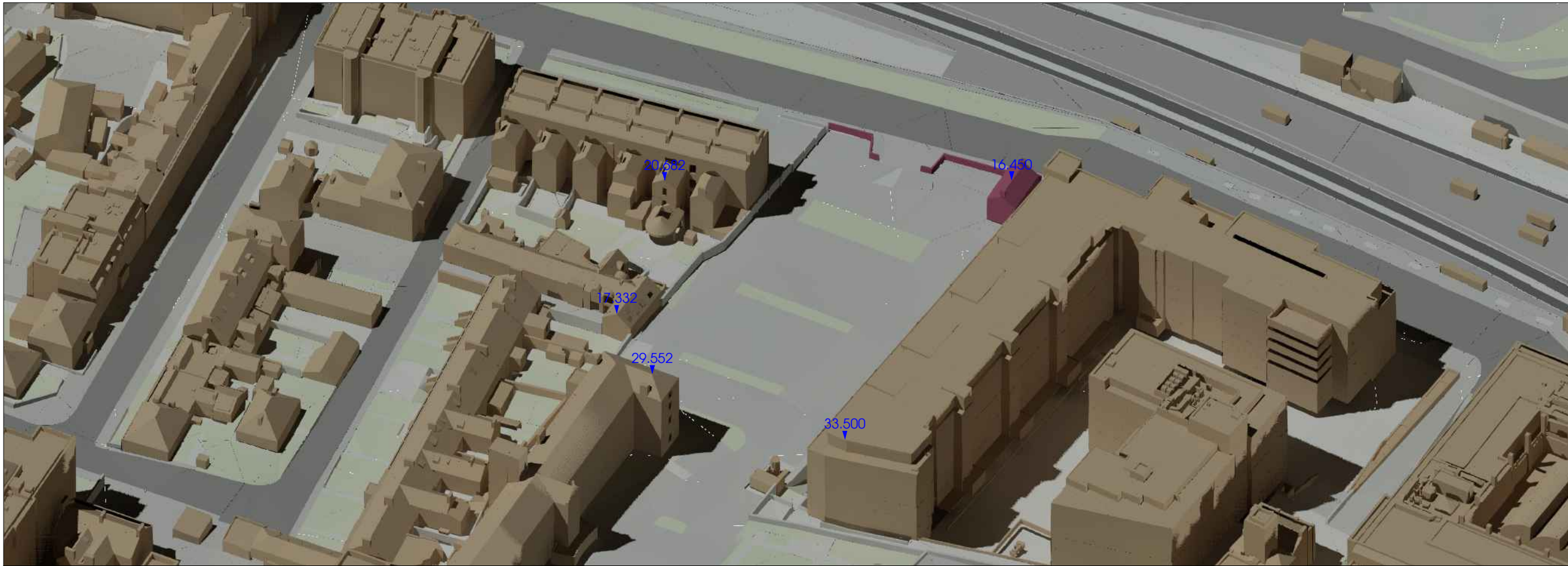
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3D Context View - View from North (Existing)

SOURCES OF INFORMATION:
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 3582 St Michaels Hospital, Dun Laoghaire - Elevations.dwg
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 Proposed Building 01 - L02 - Second Floor Plan.dwg
 Building 02 - L01 - First Floor Plan.dwg
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3D Context View - View from South (Existing)

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TITLE
3D Views Existing Site

CLIENT
Reddy Architecture + Urbanism

PROJECT
St Michaels Church, Sea Front Quarter, Dublin

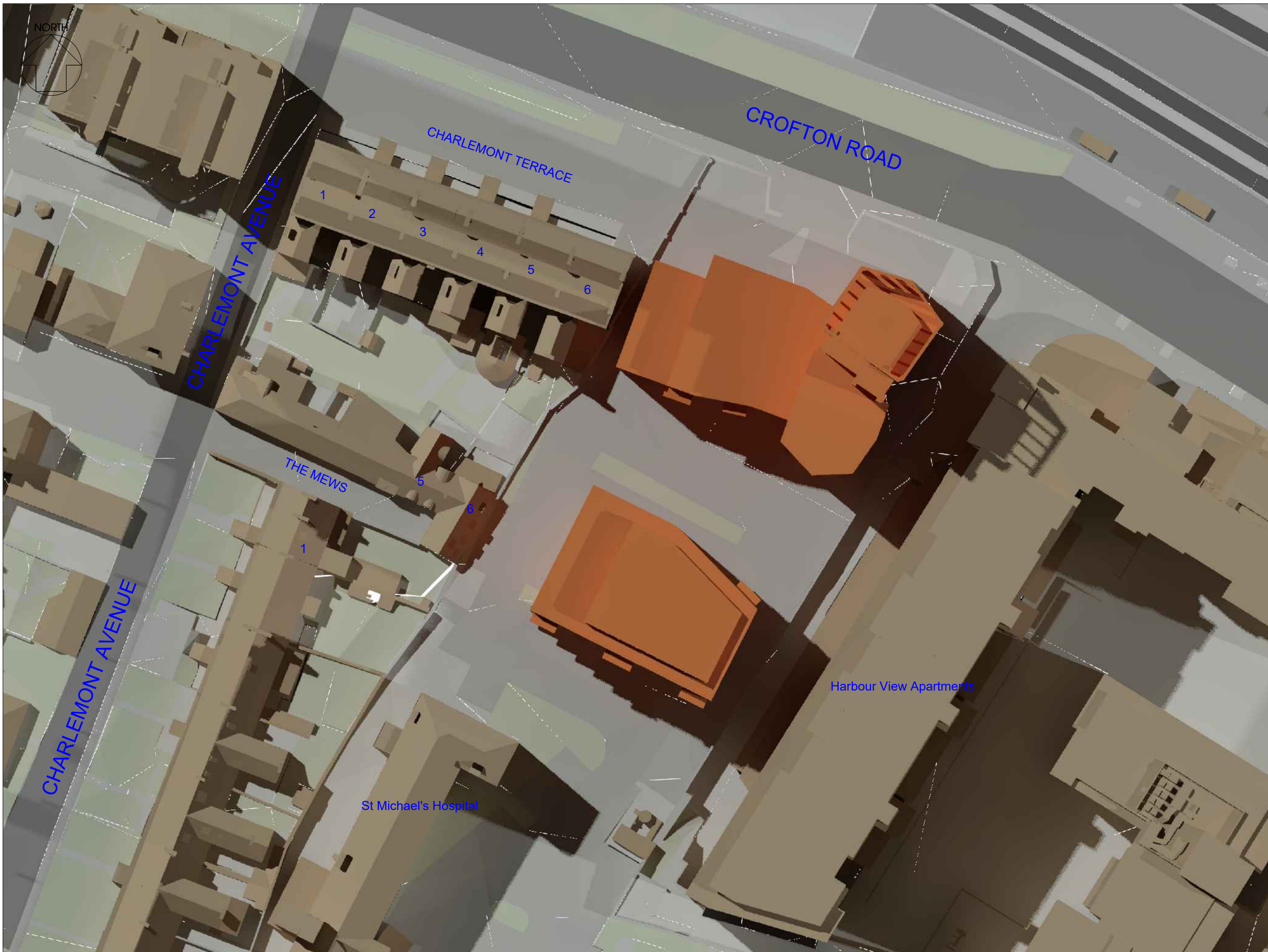
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 Proposed Building 02 - L02 - Second Floor Plan.dwg
 Building 02 - L01 - First Floor Plan.dwg
 Received 17 August 2020
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TITLE
Proposed Site Plan

CLIENT
Reddy Architecture + Urbanism

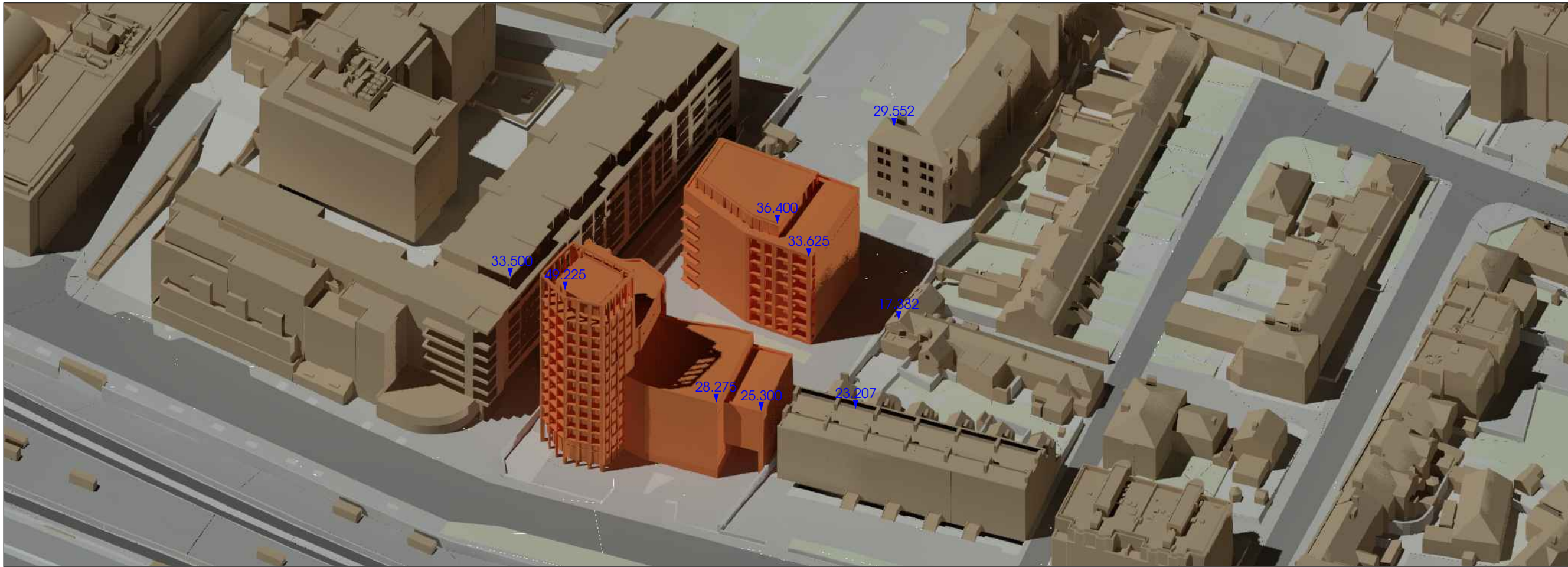
PROJECT
**St Michaels Church,
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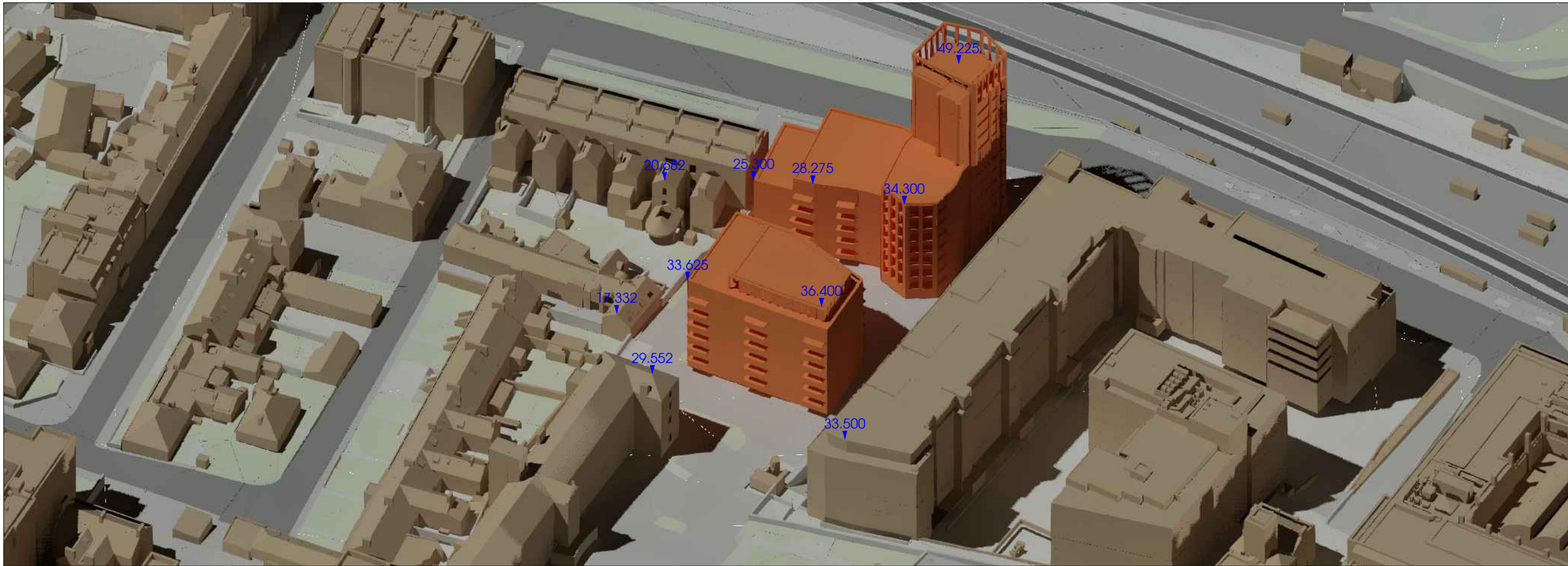
Proposed Site Plan



3D Context View - View from North (Proposed)

SOURCES OF INFORMATION:
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 3582 St Michaels Hospital, Dun Laoghaire - Elevations.dwg
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 Proposed Building 01 - L02 - Second Floor Plan.dwg
 Building 02 - L01 - First Floor Plan.dwg
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ALL HEIGHTS IN METERS AOD



3D Context View - View from South (Proposed)

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TITLE
**3D Views
 Proposed Site**

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**St Michaels Church,
 Sea Front Quarter,
 Dublin**

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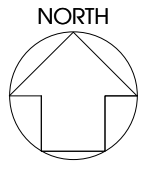
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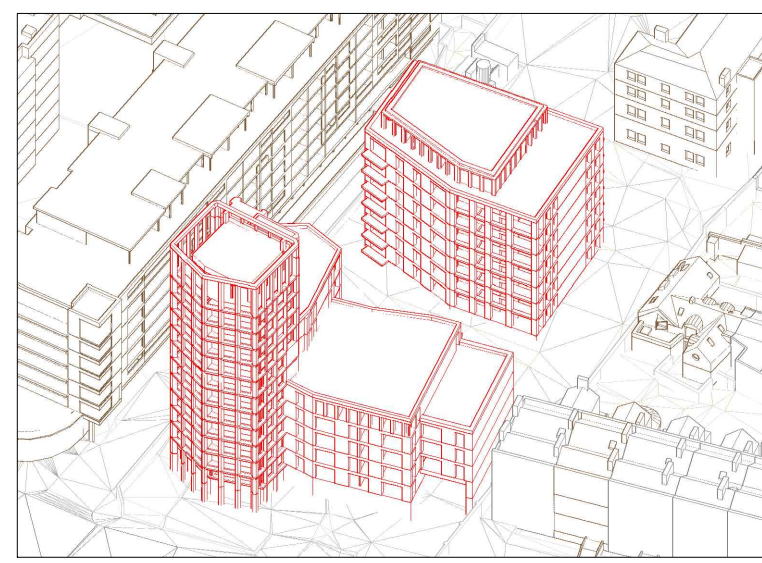
Appendix C

Window/room reference drawings



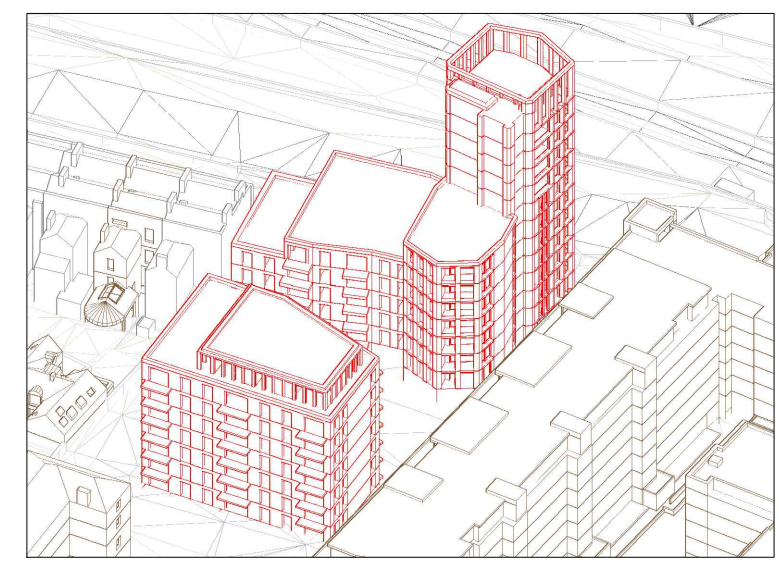
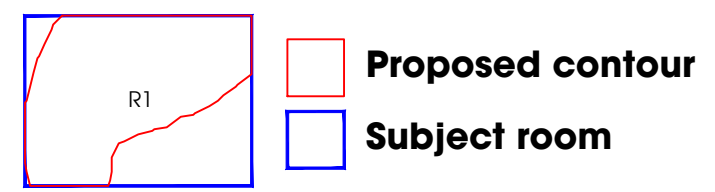


Proposed Block 1 - First Floor



3D Context View - North

KEY



3D Context View - Xxxx

SOURCES OF INFORMATION:
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 3582 St Michaels Hospital, Dun Laoghaire - Elevations.dwg
 3582 St Michaels Hospital, Dun Laoghaire, JTM15_200_2D.dwg
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 P18-143D-RAU-ZZ-ZZ-DR-A-PL1-33002-P7-Section C-C and Section D-D.dwg
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 Proposed Building 01 - L02 - Second Floor Plan.dwg
 Building 02 - L01 - First Floor Plan.dwg
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TITLE
**Daylight Distribution
 Contours/Referencing Plans
 Proposed Block 1**

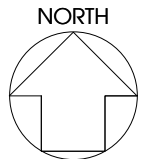
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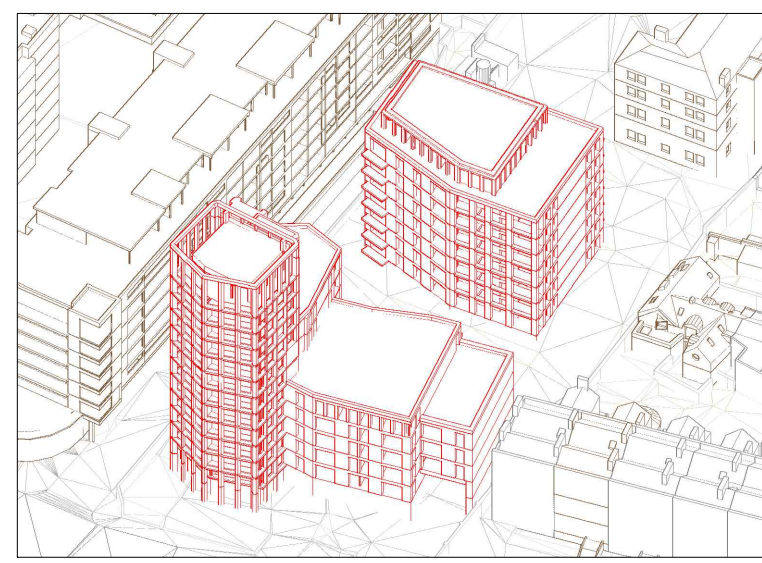
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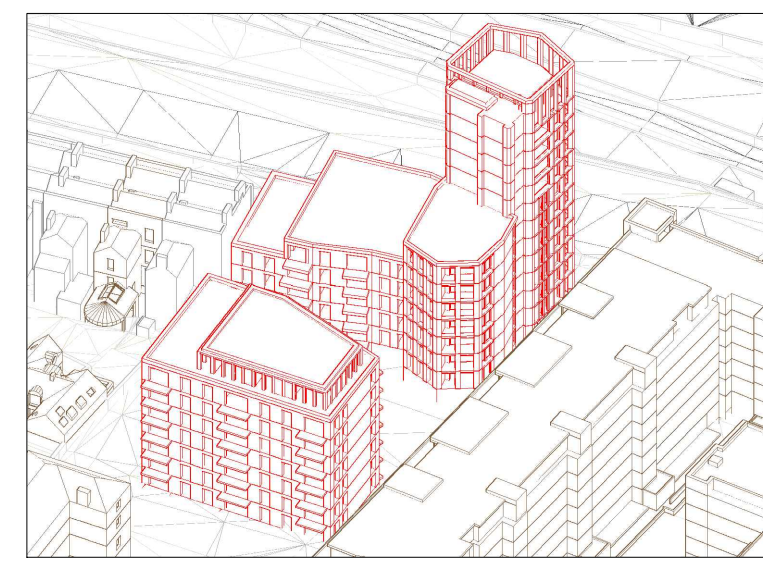
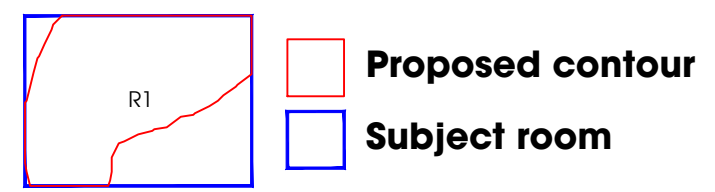


Proposed Block 1 - Second Floor



3D Context View - North

KEY



3D Context View - Xxxx

SOURCES OF INFORMATION:
 REDDY ARCHITECTURE
 3582 St Michaels Hospital, Dun Laoghaire - Elevations.dwg
 3582 St Michaels Hospital, Dun Laoghaire, JTM15_200_2D.dwg
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TITLE
**Daylight Distribution
 Contours/Referencing Plans
 Proposed Block 1**

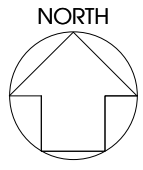
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PROJECT
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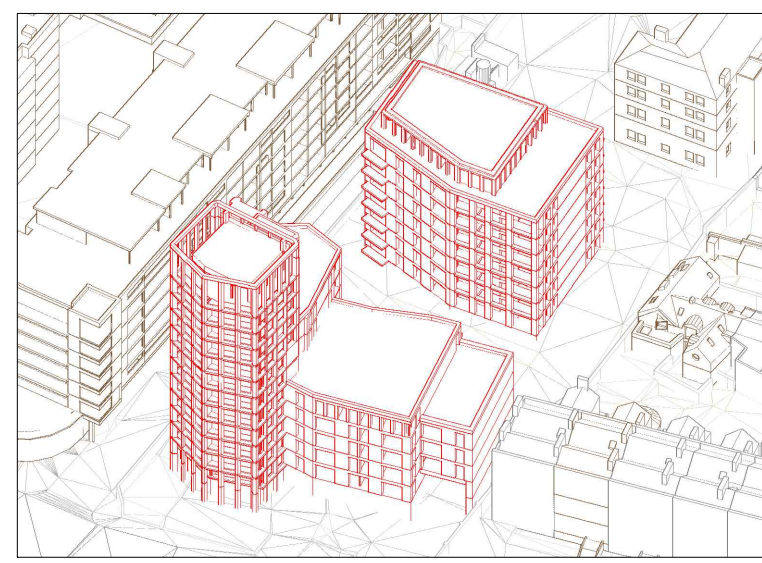
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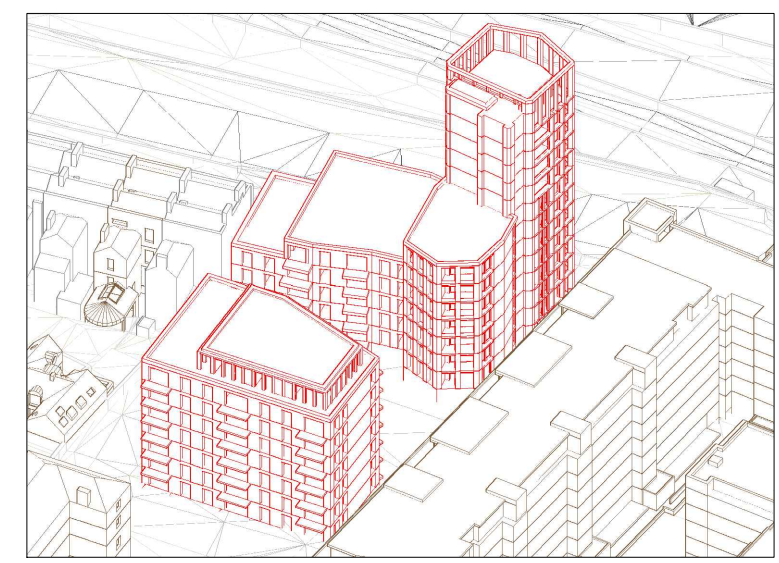
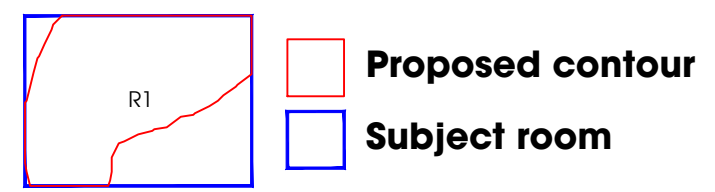


Proposed Block 1 - Third Floor



3D Context View - North

KEY



3D Context View - Xxxx

SOURCES OF INFORMATION:
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 3582 St Michaels Hospital, Dun Laoghaire - Elevations.dwg
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TITLE
**Daylight Distribution
 Contours/Referencing Plans
 Proposed Block 1**

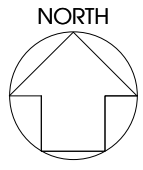
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PROJECT
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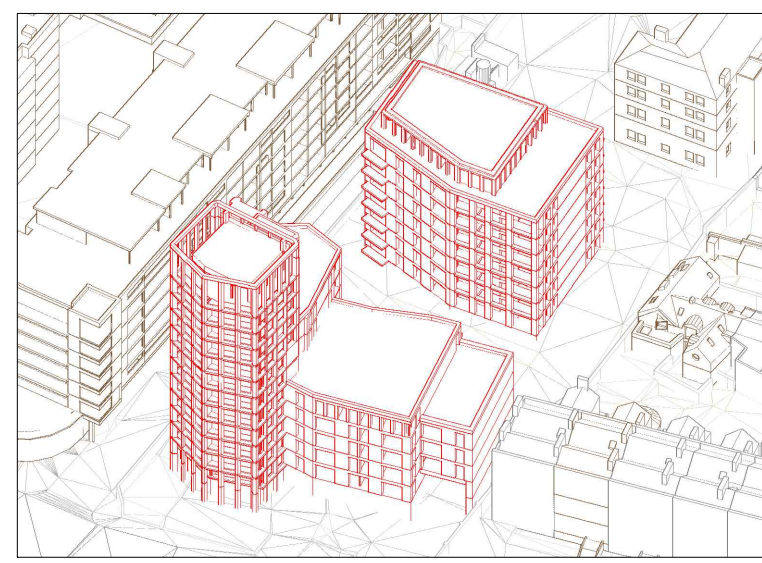
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| SCALE | DATE |
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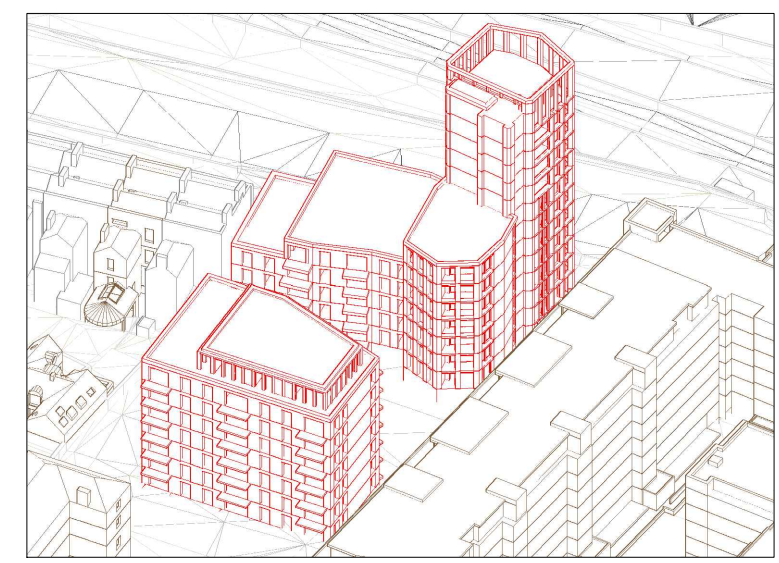
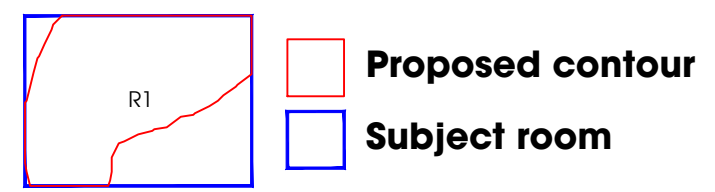


Proposed Block 1 - Fourth Floor



3D Context View - North

KEY



3D Context View - Xxxx

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 P18-143D-RAU-01-ZZ-DR-A-PL1-31004-P7-Building 01 - Roof Plan.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-32010-P7-Building 01 - Elevations 01.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-32011-P7-Building 01 - Elevations 02.dwg
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 P18-143D-RAU-02-ZZ-DR-A-PL1-31003-P7-Proposed Site Plan.dwg
 P18-143D-RAU-ZZ-ZZ-DR-A-PL1-33001-P7-Sections A-A and B-B.dwg
 P18-143D-RAU-ZZ-ZZ-DR-A-PL1-33002-P7-Section C-C and Section D-D.dwg
 Proposed Building 01 - L01 - First Level Floor Plan.dwg
 Proposed Building 01 - L02 - Second Floor Plan.dwg
 Building 02 - L01 - First Floor Plan.dwg
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**Daylight Distribution
 Contours/Referencing Plans
 Proposed Block 1**

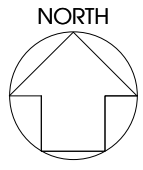
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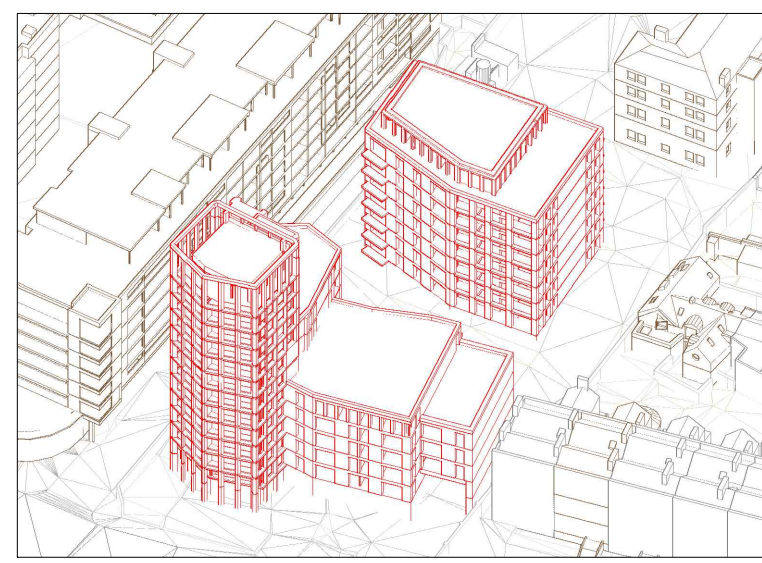
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| SCALE | DATE |
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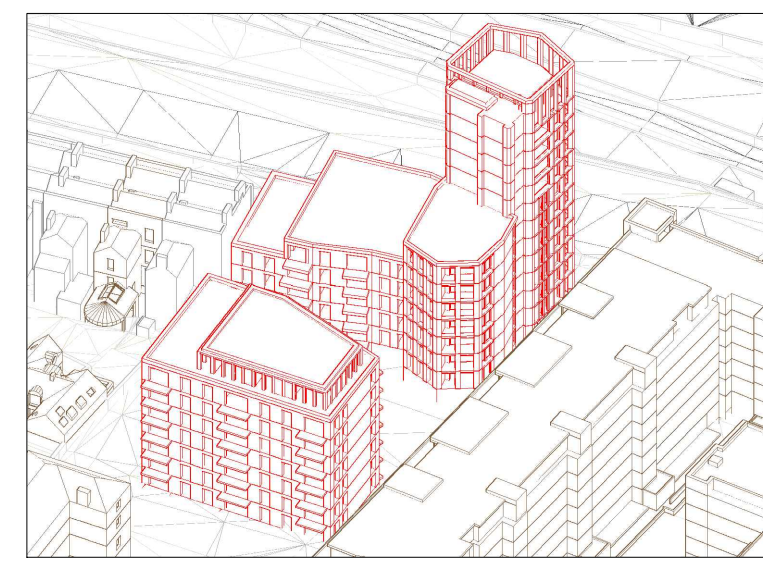
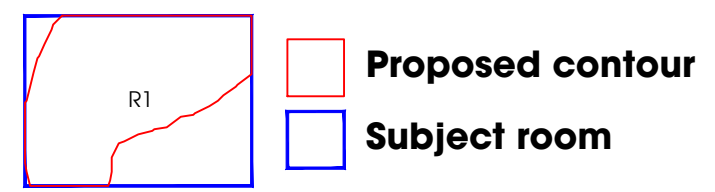


Proposed Block 1 - Fifth Floor



3D Context View - North

KEY



3D Context View - Xxxx

SOURCES OF INFORMATION:
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 3582 St Michaels Hospital, Dun Laoghaire - Elevations.dwg
 3582 St Michaels Hospital, Dun Laoghaire, JTM15_200_2D.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31001-P7-Building 01 - Ground, Mezza.dwg
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 P18-143D-RAU-01-ZZ-DR-A-PL1-31004-P7-Building 01 - Roof Plan.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-32010-P7-Building 01 - Elevations 01.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-32011-P7-Building 01 - Elevations 02.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31001-P7-Building 02 - Ground, First.dwg
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 P18-143D-RAU-02-ZZ-DR-A-PL1-31003-P7-Building 02 - Roof Plan.dwg
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 P18-143D-RAU-ZZ-ZZ-DR-A-PL1-33002-P7-Section C-C and Section D-D.dwg
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 Proposed Building 01 - L02 - Second Floor Plan.dwg
 Building 02 - L01 - First Floor Plan.dwg
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**Daylight Distribution
 Contours/Referencing Plans
 Proposed Block 1**

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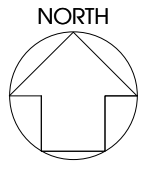
PROJECT
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| SCALE 1:200@A3 | DATE August 2020 |

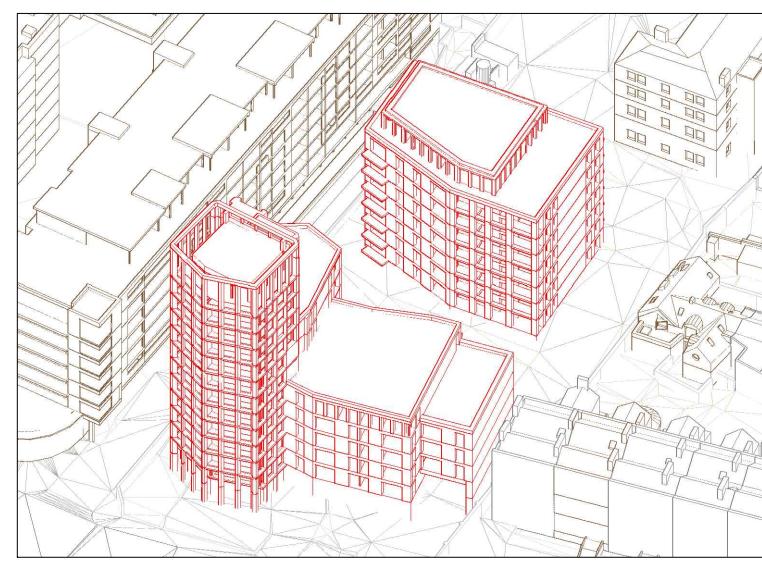
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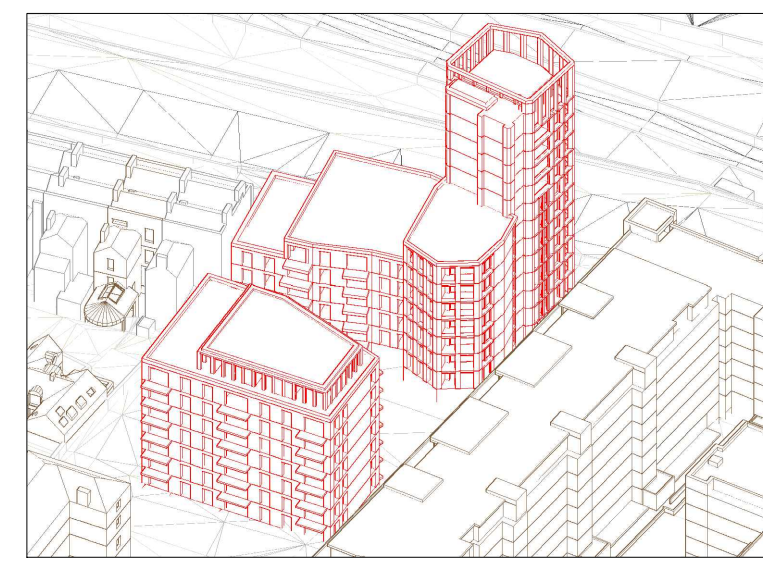
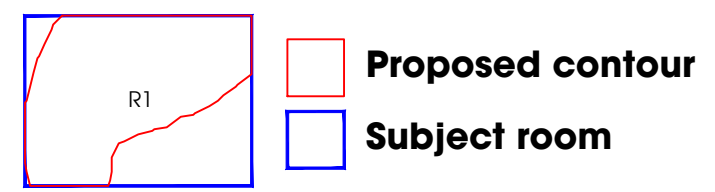


Proposed Block 1 - Sixth Floor



3D Context View - North

KEY



3D Context View - Xxxx

SOURCES OF INFORMATION:
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 3582 St Michaels Hospital, Dun Laoghaire - Elevations.dwg
 3582 St Michaels Hospital, Dun Laoghaire, JTM15_200_2D.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31001-P7-Building 01 - Ground, Mezza.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31002-P7-Building 01 - Third, Fourth.dwg
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 P18-143D-RAU-01-ZZ-DR-A-PL1-32011-P7-Building 01 - Elevations 02.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31001-P7-Building 02 - Ground, First.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31002-P7-Building 02 - Fourth, Fifth.dwg
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 P18-143D-RAU-ZZ-ZZ-DR-A-PL1-33002-P7-Section C-C and Section D-D.dwg
 Proposed Building 01 - L01 - First Level Floor Plan.dwg
 Proposed Building 02 - L02 - Second Floor Plan.dwg
 Building 02 - L01 - First Floor Plan.dwg
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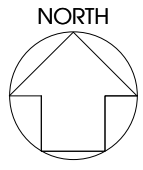
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Proposed Block 1 - Seventh Floor

SOURCES OF INFORMATION:
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 3582 St Michaels Hospital, Dun Laoghaire - Elevations.dwg
 3582 St Michaels Hospital, Dun Laoghaire, JTM15_200_2D.dwg
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 P18-143D-RAU-01-ZZ-DR-A-PL1-32011-P7-Building 01 - Elevations 02.dwg
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 P18-143D-RAU-02-ZZ-DR-A-PL1-31002-P7-Building 02 - Fourth, Fifth.dwg
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 P18-143D-RAU-02-ZZ-DR-A-PL1-32011-P7-Building 02 - Elevations 02.dwg
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 P18-143D-RAU-ZZ-ZZ-DR-A-PL1-33002-P7-Section C-C and Section D-D.dwg
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 Proposed Building 01 - L02 - Second Floor Plan.dwg
 Building 02 - L01 - First Floor Plan.dwg
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 Proposed Block 1**

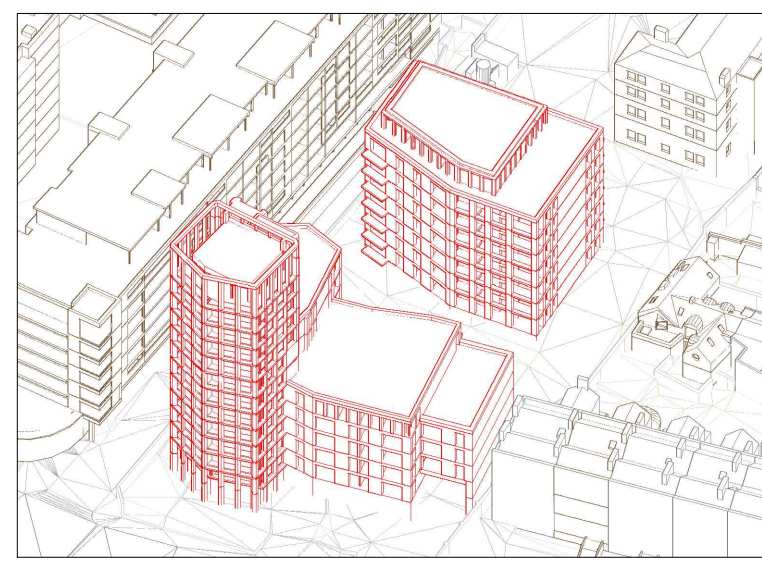
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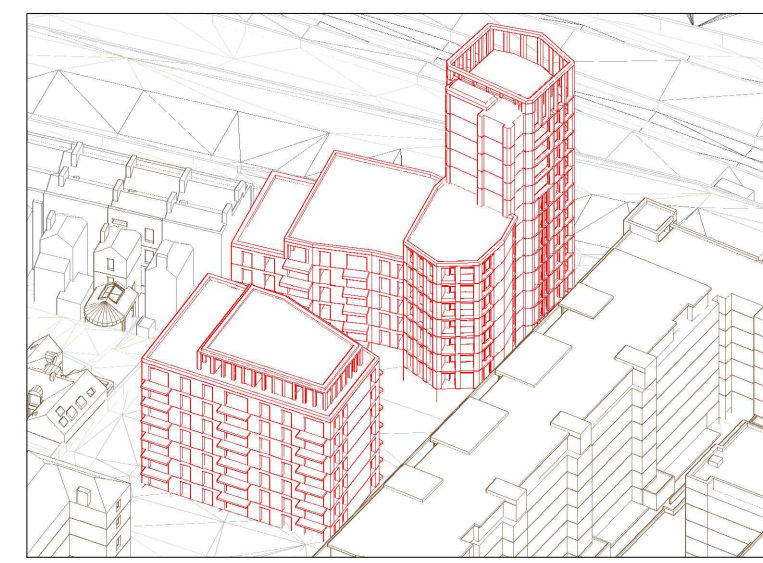
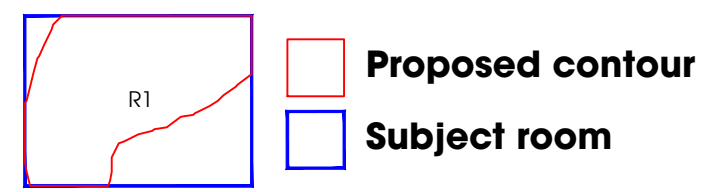
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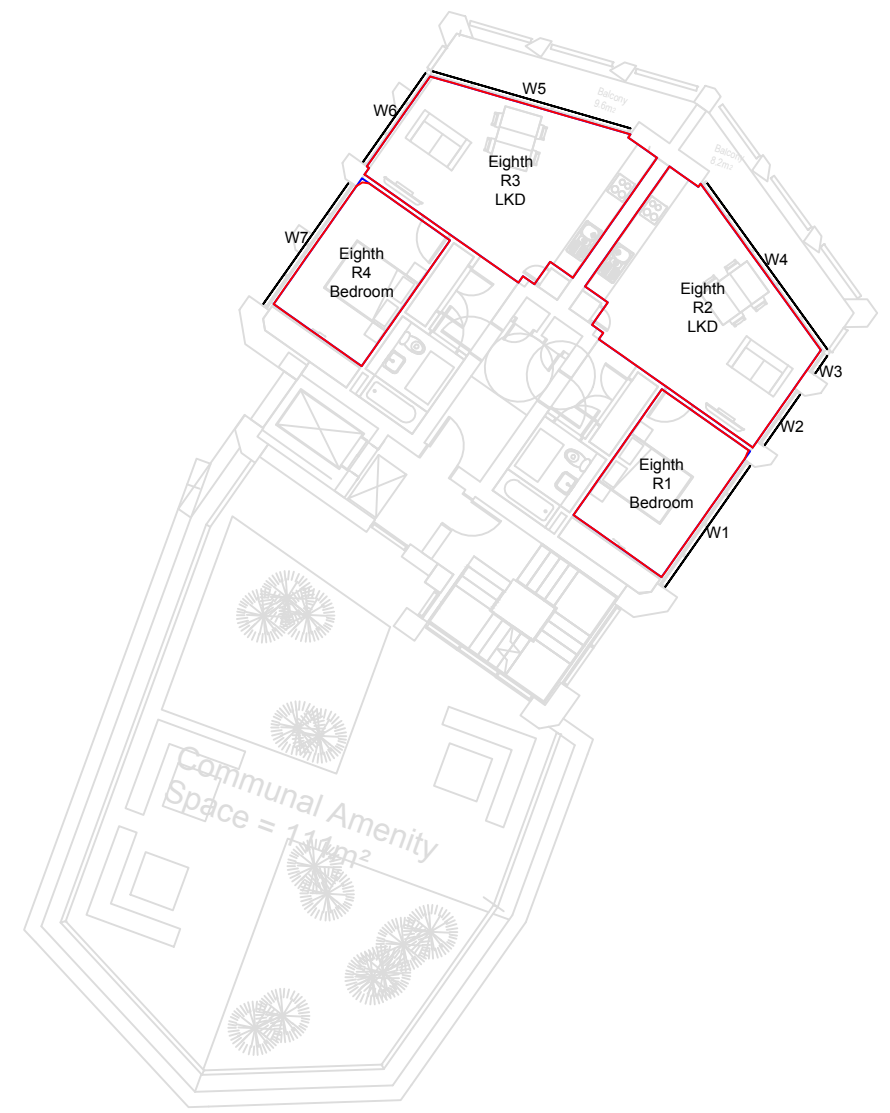
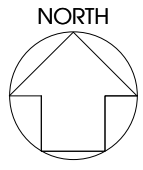


3D Context View - North

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3D Context View - Xxxx



Proposed Block 1 - Eighth Floor

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 3582 St Michaels Hospital, Dun Laoghaire - Elevations.dwg
 3582 St Michaels Hospital, Dun Laoghaire, ITM15_200_2D.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31001-P7-Building 01 - Ground, Mezza.dwg
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 P18-143D-RAU-01-ZZ-DR-A-PL1-31004-P7-Building 01 - Roof Plan.dwg
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 P18-143D-RAU-01-ZZ-DR-A-PL1-32011-P7-Building 01 - Elevations 02.dwg
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 Building 02 - L01 - First Floor Plan.dwg
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 Proposed Block 1**

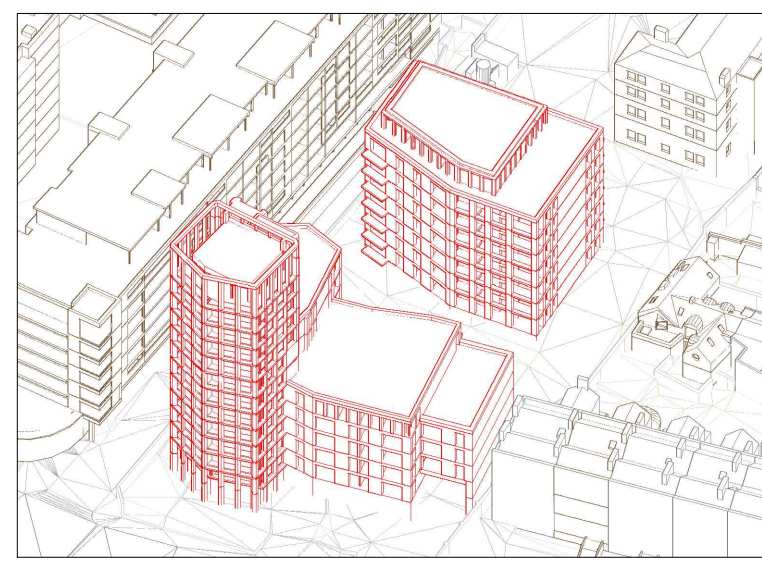
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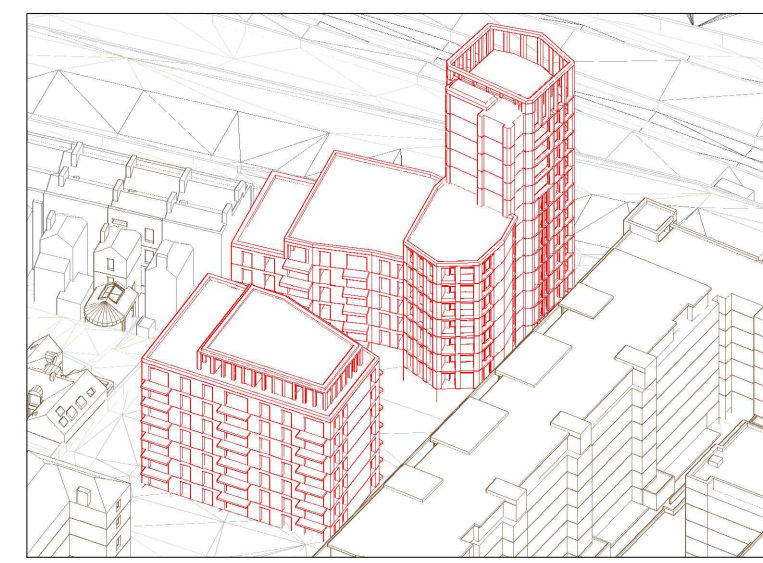
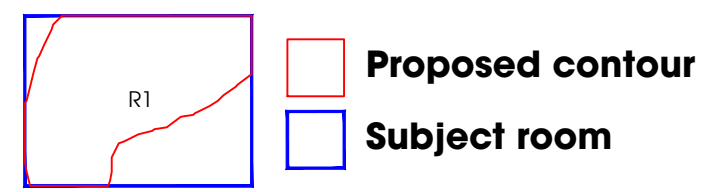
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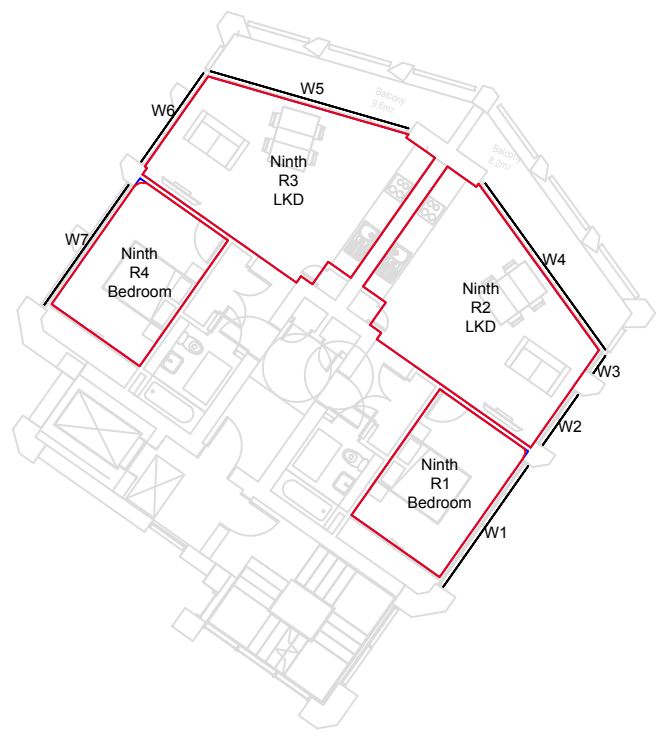
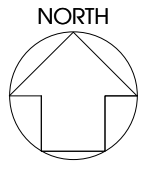


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KEY



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SOURCES OF INFORMATION:
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 Building 02 - L01 - First Floor Plan.dwg

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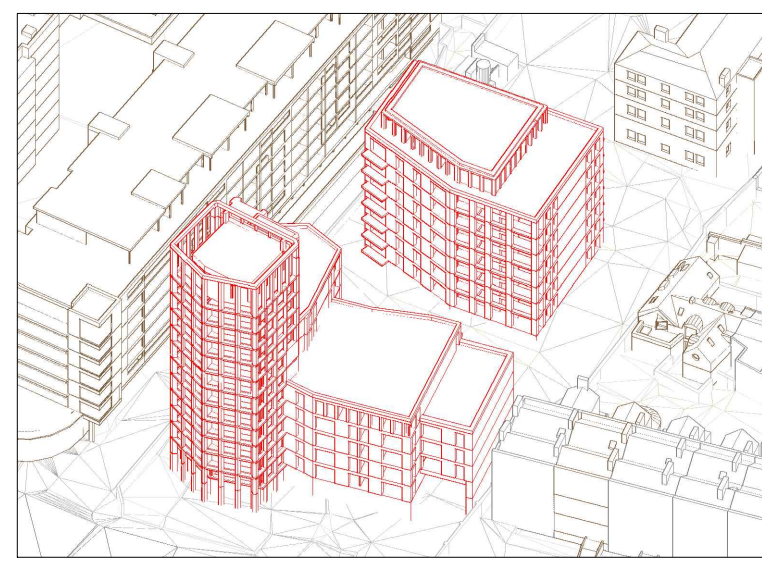
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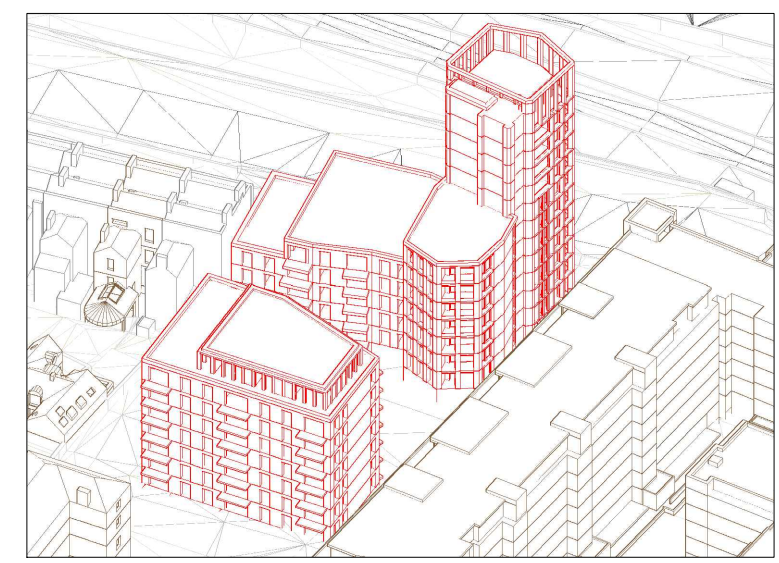
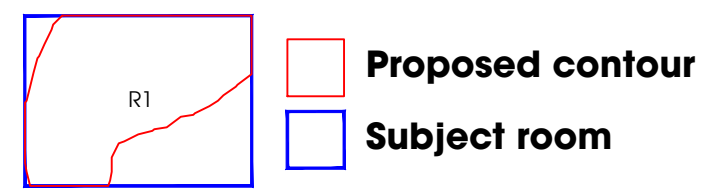
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Proposed Block 1 - Ninth Floor

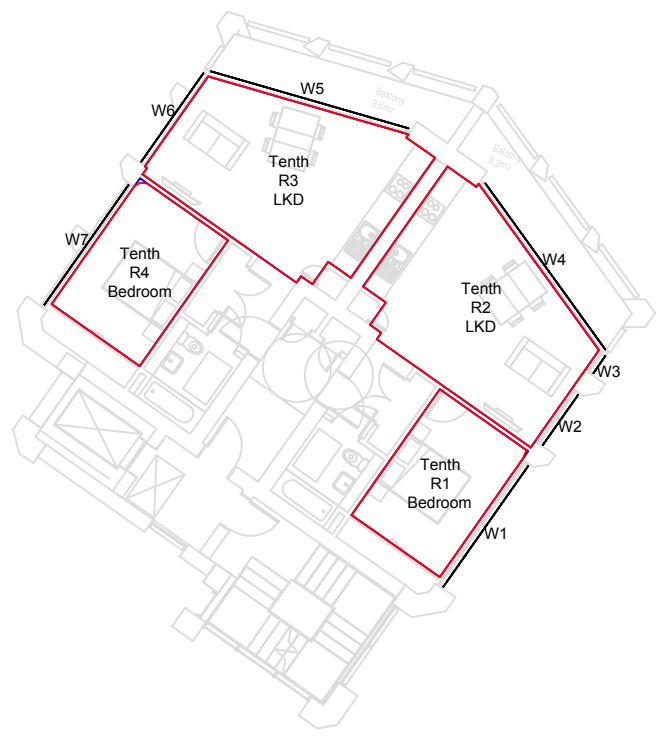
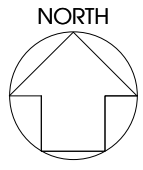


3D Context View - North

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 P18-143D-RAU-ZZ-ZZ-DR-A-PL1-33001-P7-Sections A-A and B-B.dwg
 P18-143D-RAU-ZZ-ZZ-DR-A-PL1-33002-P7-Section C-C and Section D-D.dwg
 Proposed Building 01 - L01 - First Level Floor Plan.dwg
 Proposed Building 01 - L02 - Second Floor Plan.dwg
 Building 02 - L01 - First Floor Plan.dwg
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 200157_St_Michael's_Seafront_Quarter_Dublin_MASTER.dwg
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TITLE
**Daylight Distribution
 Contours/Referencing Plans
 Proposed Block 1**

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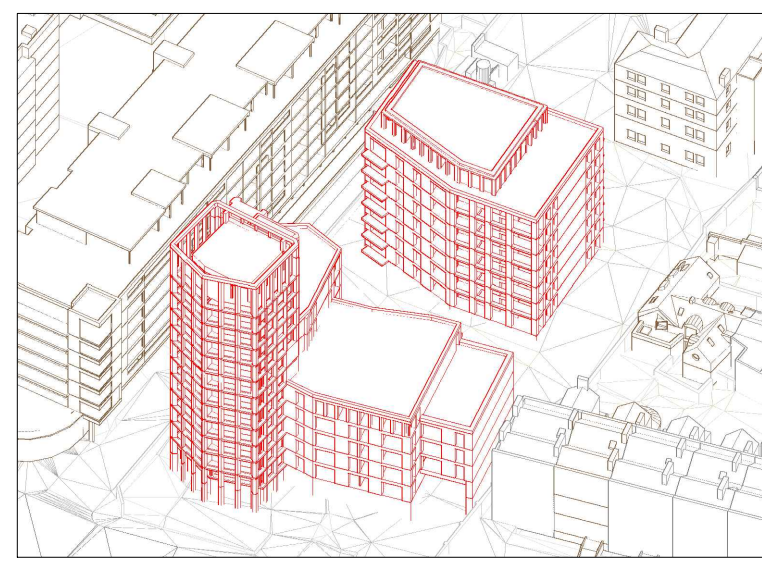
PROJECT
**St Michaels Church,
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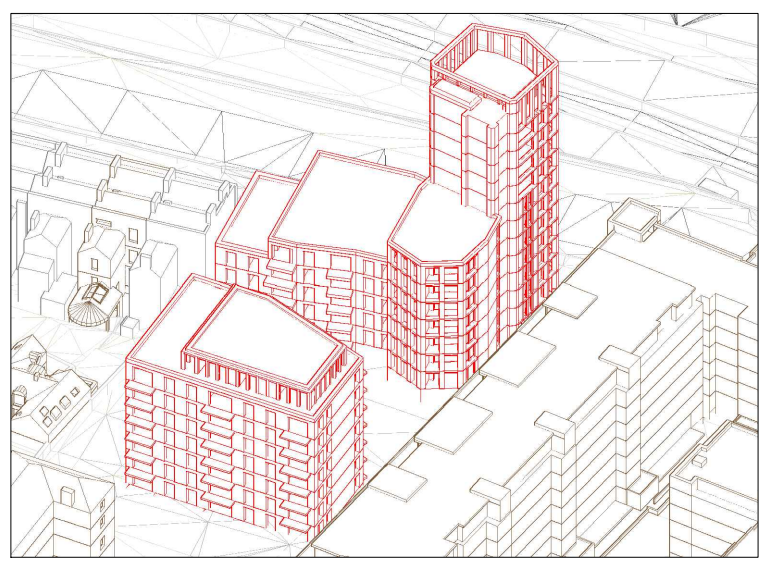
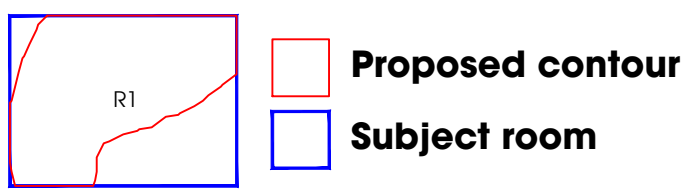
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Proposed Block 1 - Tenth Floor

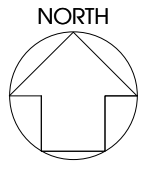


3D Context View - North

KEY



3D Context View - Xxxx



SOURCES OF INFORMATION:
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 3582 St Michaels Hospital, Dun Laoghaire - Elevations.dwg
 3582 St Michaels Hospital, Dun Laoghaire, ITM15_200_2D.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31001-P7-Building 01 - Ground, Mezza.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31002-P7-Building 01 - Third, Fourth.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31003-P7-Building 01 - Seventh, Eighth.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31004-P7-Building 01 - Roof Plan.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-32010-P7-Building 01 - Elevations 01.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-32011-P7-Building 01 - Elevations 02.dwg
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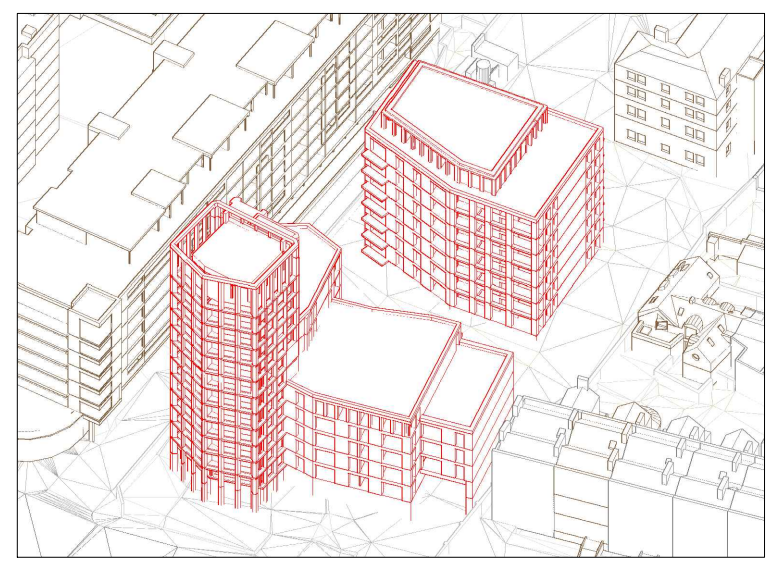
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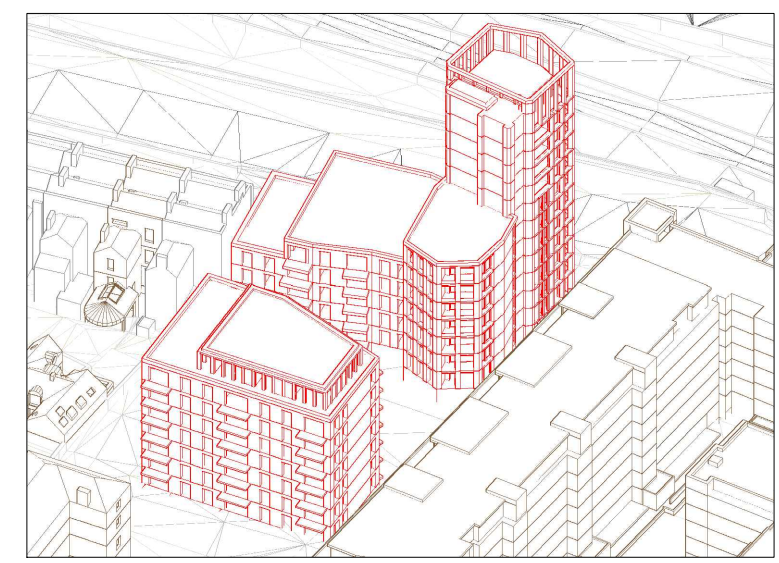
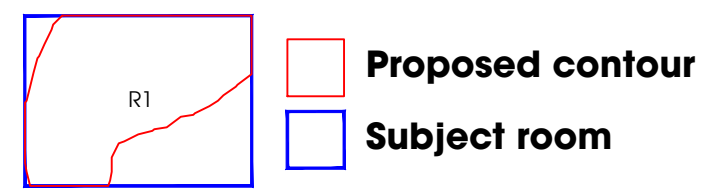
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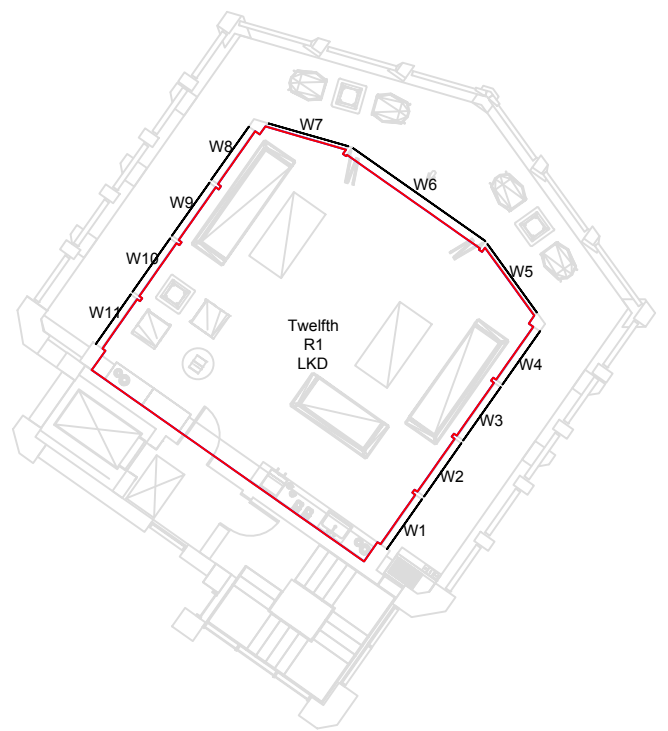
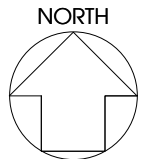


3D Context View - North

KEY



3D Context View - Xxxx



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 3582 St Michaels Hospital, Dun Laoghaire, ITM15_200_2D.dwg
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 P18-143D-RAU-01-ZZ-DR-A-PL1-31002-P7-Building 01 - Third, Fourth.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31003-P7-Building 01 - Seventh, Eighth.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31004-P7-Building 01 - Roof Plan.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-32010-P7-Building 01 - Elevations 01.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-32011-P7-Building 01 - Elevations 02.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31001-P7-Building 02 - Ground, First.dwg
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 Proposed Building 01 - L01 - First Level Floor Plan.dwg
 Proposed Building 01 - L02 - Second Floor Plan.dwg
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TITLE
**Daylight Distribution
 Contours/Referencing Plans
 Proposed Block 1**

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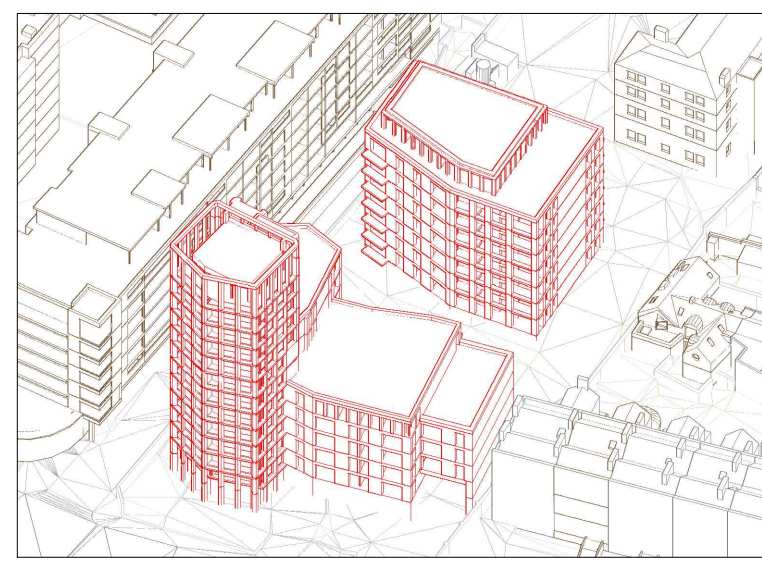
PROJECT
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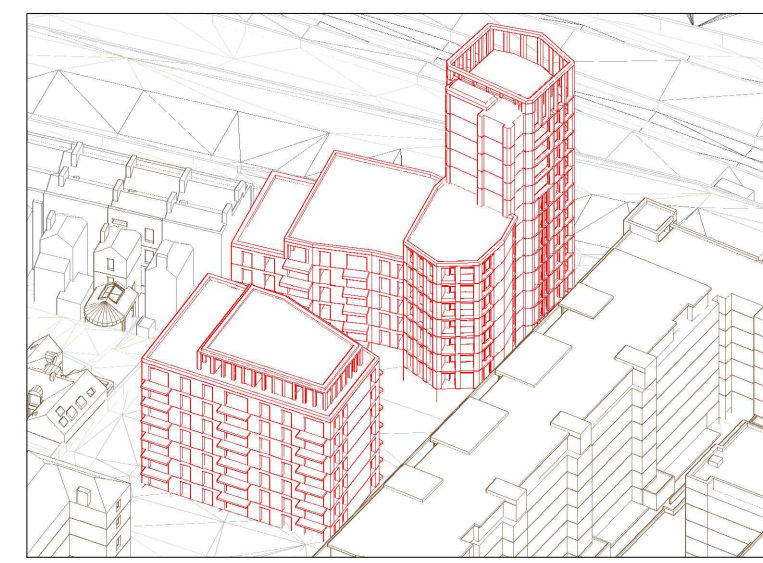
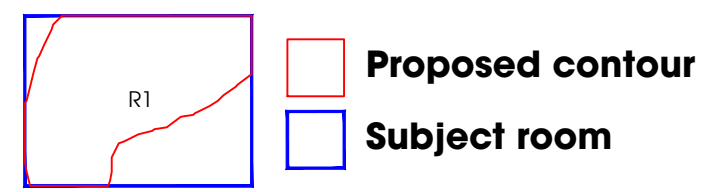
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Proposed Block 1 - Twelfth Floor

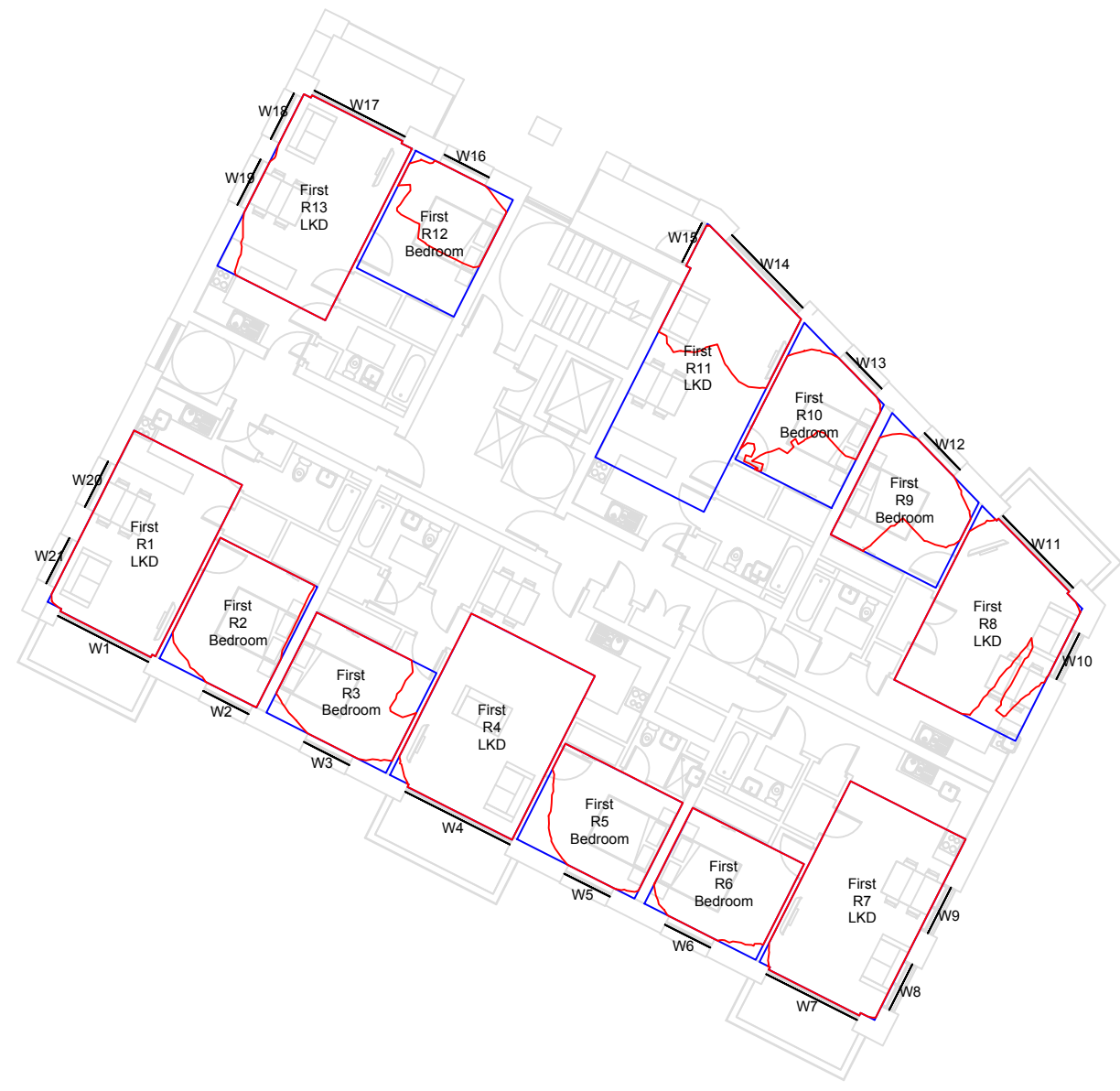
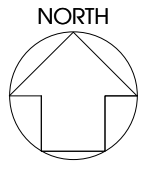


3D Context View - North

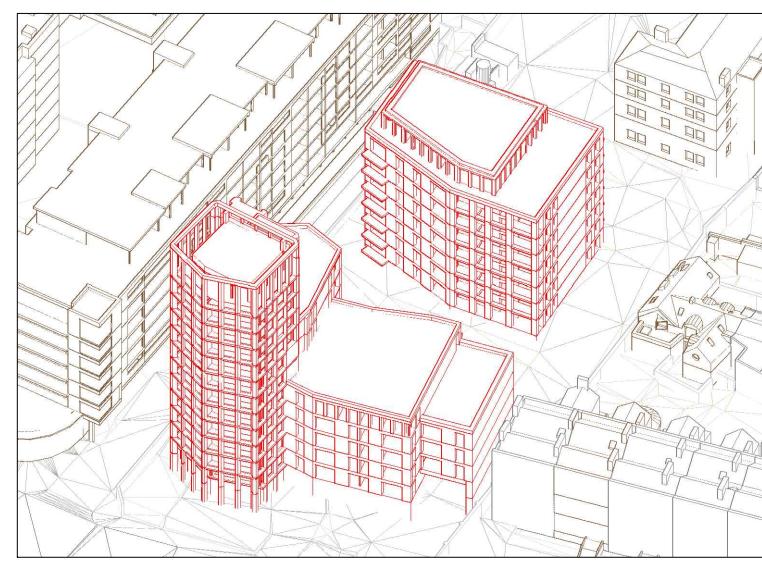
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3D Context View - Xxxx

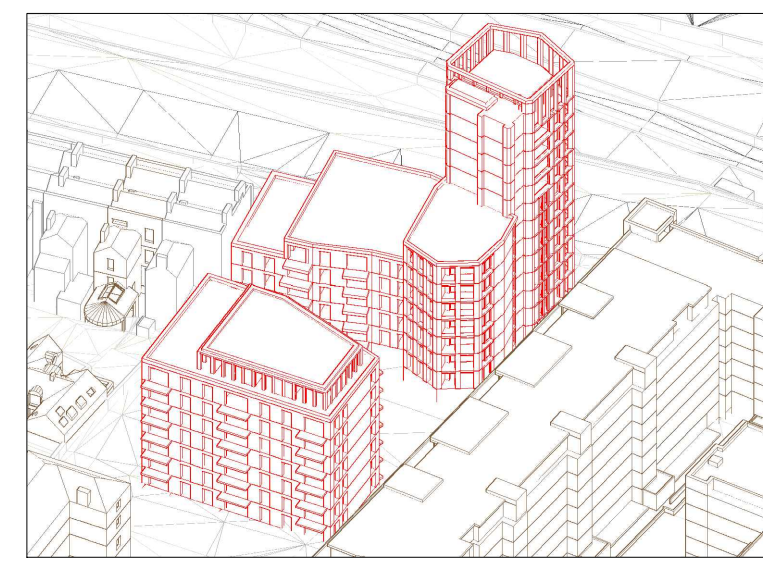
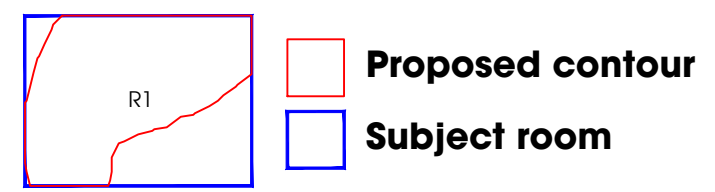


Proposed Block 2 - First Floor



3D Context View - North

KEY



3D Context View - Xxxx

SOURCES OF INFORMATION:
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 3582 St Michaels Hospital, Dun Laoghaire - Elevations.dwg
 3582 St Michaels Hospital, Dun Laoghaire, ITM15_200_2D.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31001-P7-Building 01 - Ground, Mezza.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31002-P7-Building 01 - Third, Fourth.dwg
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 P18-143D-RAU-01-ZZ-DR-A-PL1-31004-P7-Building 01 - Roof Plan.dwg
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 P18-143D-RAU-01-ZZ-DR-A-PL1-32011-P7-Building 01 - Elevations 02.dwg
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 P18-143D-RAU-ZZ-DR-A-PL1-31003-P7-Proposed Site Plan.dwg
 P18-143D-RAU-ZZ-DR-A-PL1-33001-P7-Sections A-A and B-B.dwg
 P18-143D-RAU-ZZ-DR-A-PL1-33002-P7-Section C-C and Section D-D.dwg
 Proposed Building 01 - L01 - First Level Floor Plan.dwg
 Proposed Building 01 - L02 - Second Floor Plan.dwg
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TITLE
**Daylight Distribution
 Contours/Referencing Plans
 Proposed Block 2**

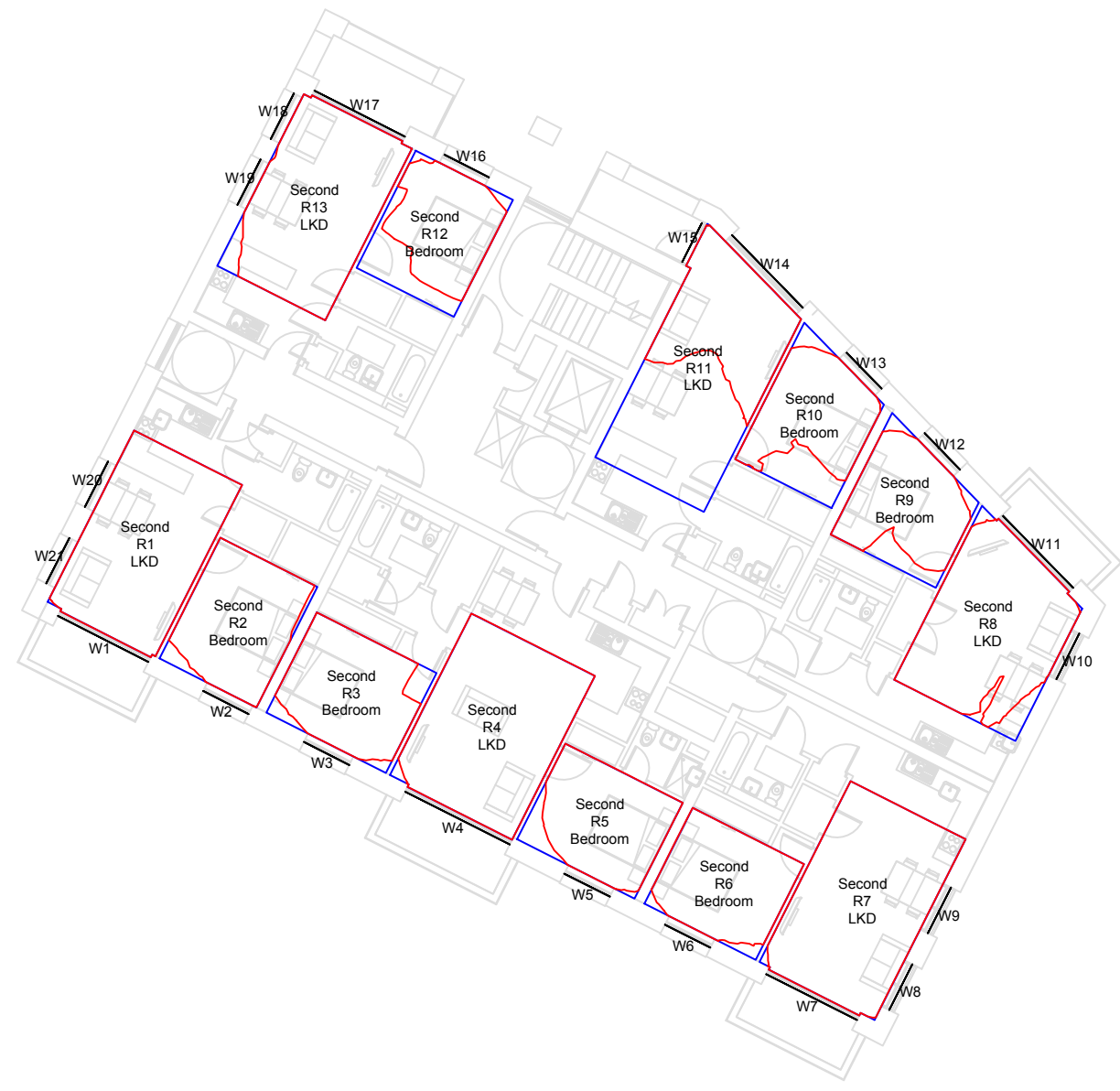
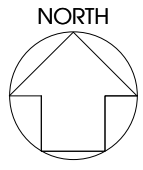
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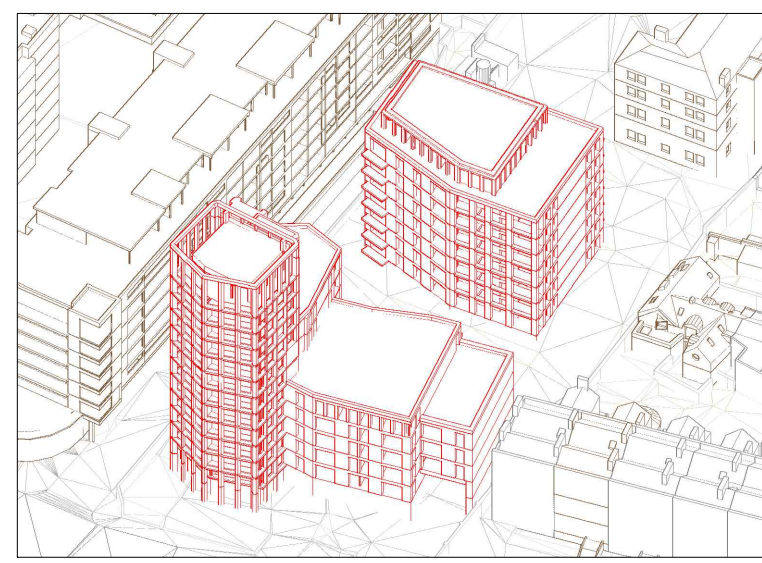
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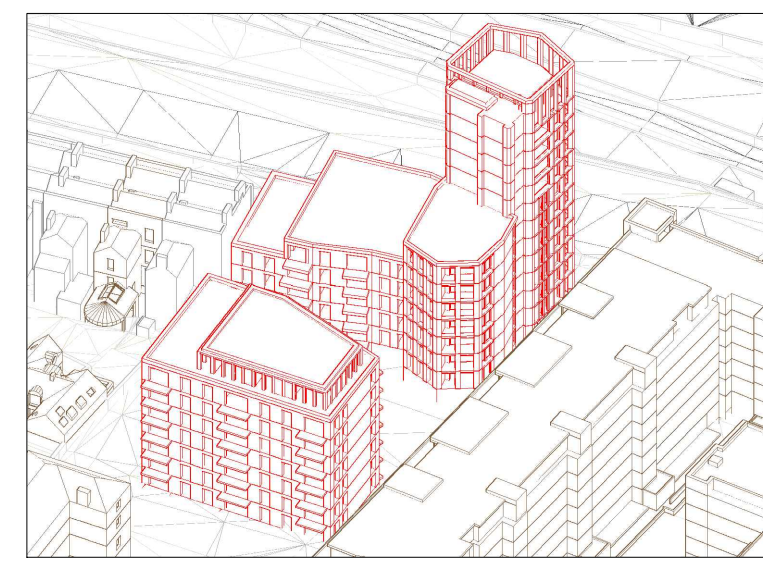
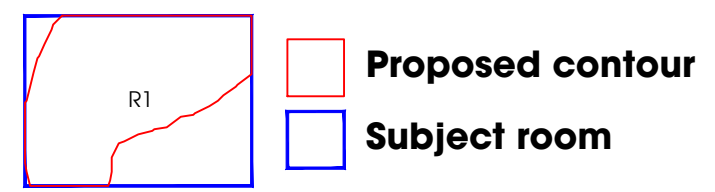


Proposed Block 2 - Second Floor



3D Context View - North

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3D Context View - Xxxx

SOURCES OF INFORMATION:
 REDDY ARCHITECTURE
 3582 St Michaels Hospital, Dun Laoghaire - Elevations.dwg
 3582 St Michaels Hospital, Dun Laoghaire, ITM15_200_2D.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31001-P7-Building 01 - Ground, Mezza.dwg
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 P18-143D-RAU-01-ZZ-DR-A-PL1-31004-P7-Building 01 - Roof Plan.dwg
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 Proposed Building 01 - L02 - Second Floor Plan.dwg
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TITLE
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 Proposed Block 2**

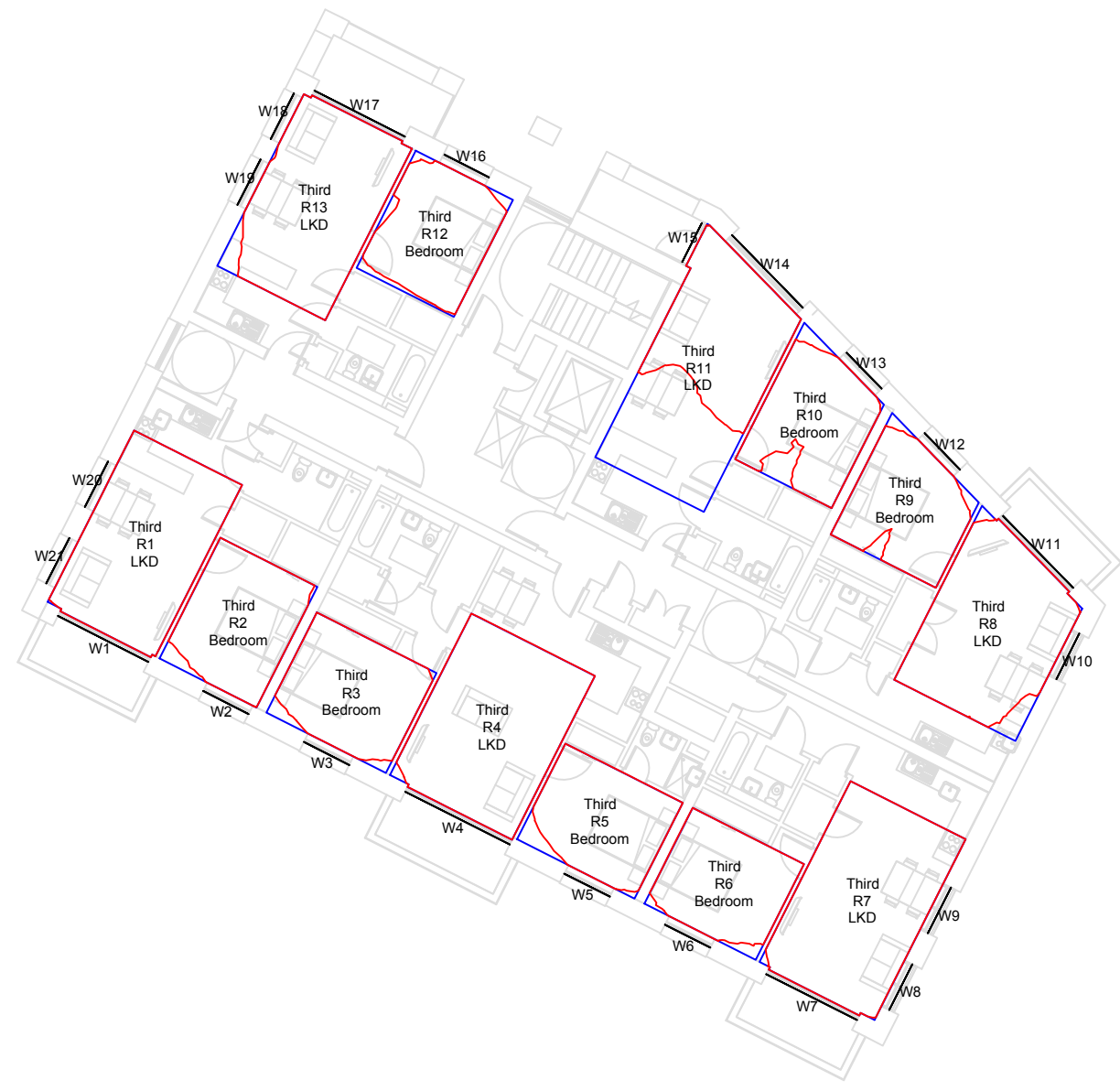
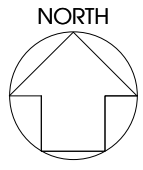
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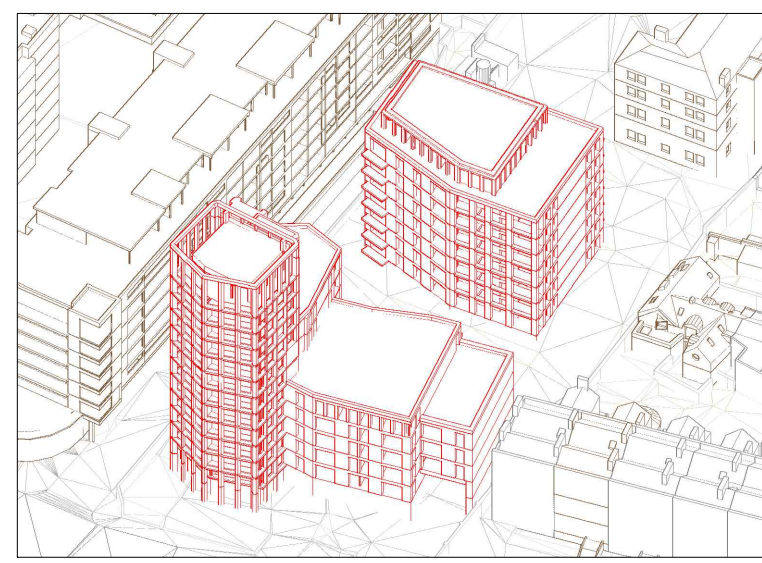
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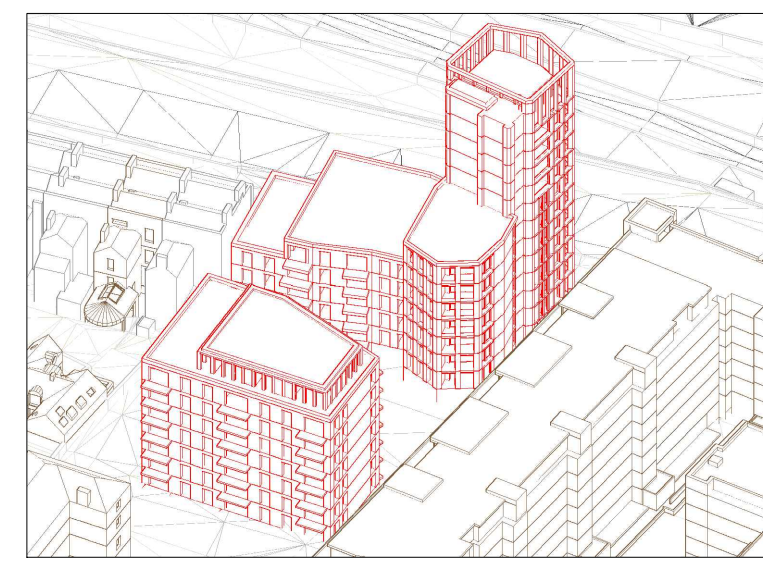
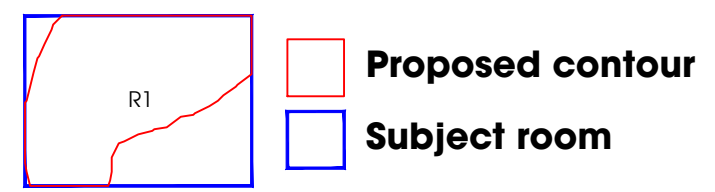


Proposed Block 2 - Third Floor



3D Context View - North

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3D Context View - Xxxx

SOURCES OF INFORMATION:
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 3582 St Michaels Hospital, Dun Laoghaire, ITM15_200_2D.dwg
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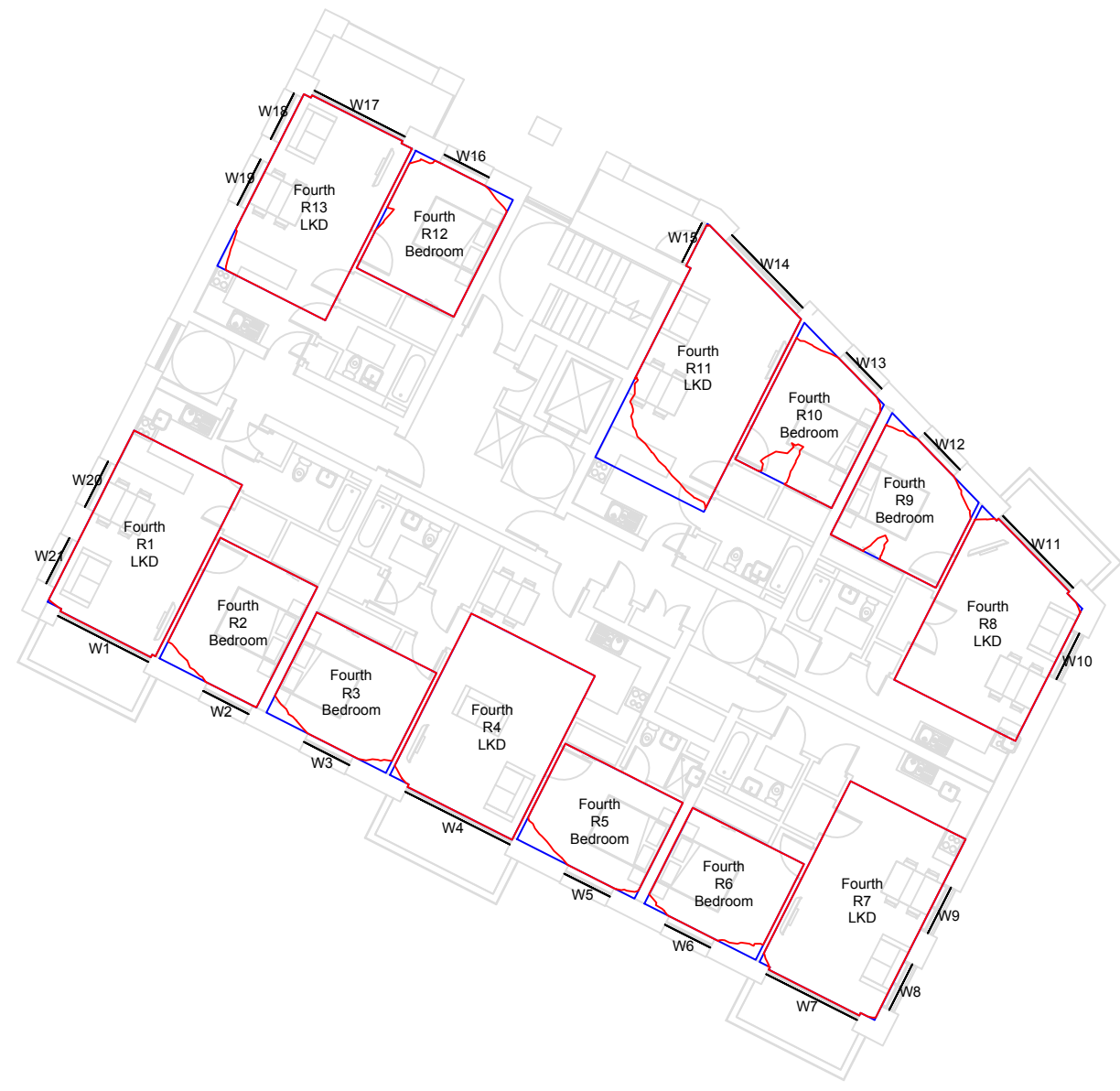
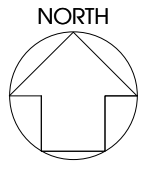
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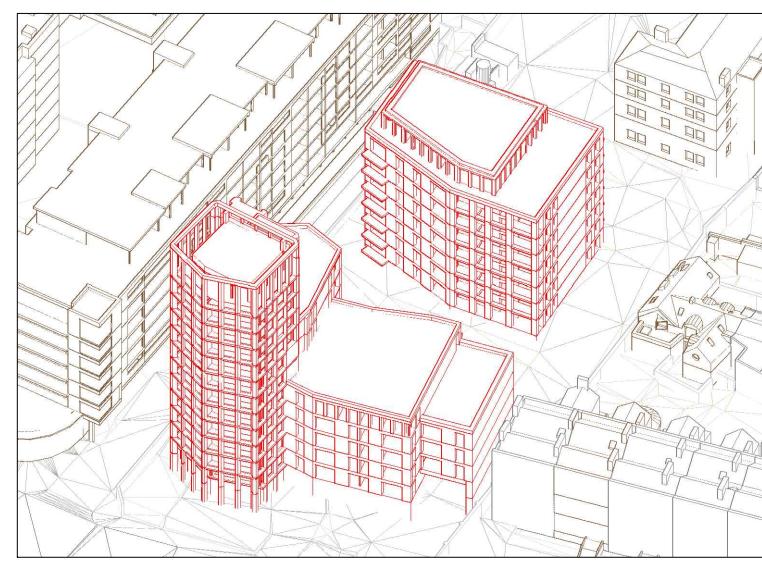
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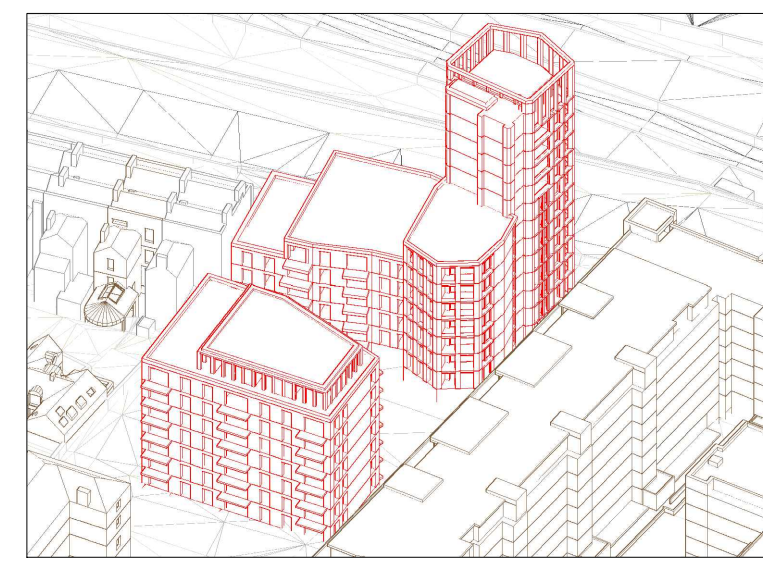
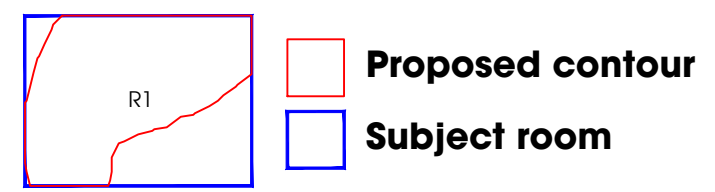


Proposed Block 2 - Fourth Floor



3D Context View - North

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3D Context View - Xxxx

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 P18-143D-RAU-01-ZZ-DR-A-PL1-32011-P7-Building 01 - Elevations 02.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31001-P7-Building 02 - Ground, First.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31002-P7-Building 02 - Fourth, Fifth.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31003-P7-Building 02 - Roof Plan.dwg
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 P18-143D-RAU-ZZ-DR-A-PL1-31003-P7-Proposed Site Plan.dwg
 P18-143D-RAU-ZZ-DR-A-PL1-33001-P7-Sections A-A and B-B.dwg
 P18-143D-RAU-ZZ-DR-A-PL1-33002-P7-Section C-C and Section D-D.dwg
 Proposed Building 01 - L01 - First Level Floor Plan.dwg
 Proposed Building 01 - L02 - Second Floor Plan.dwg
 Building 02 - L01 - First Floor Plan.dwg
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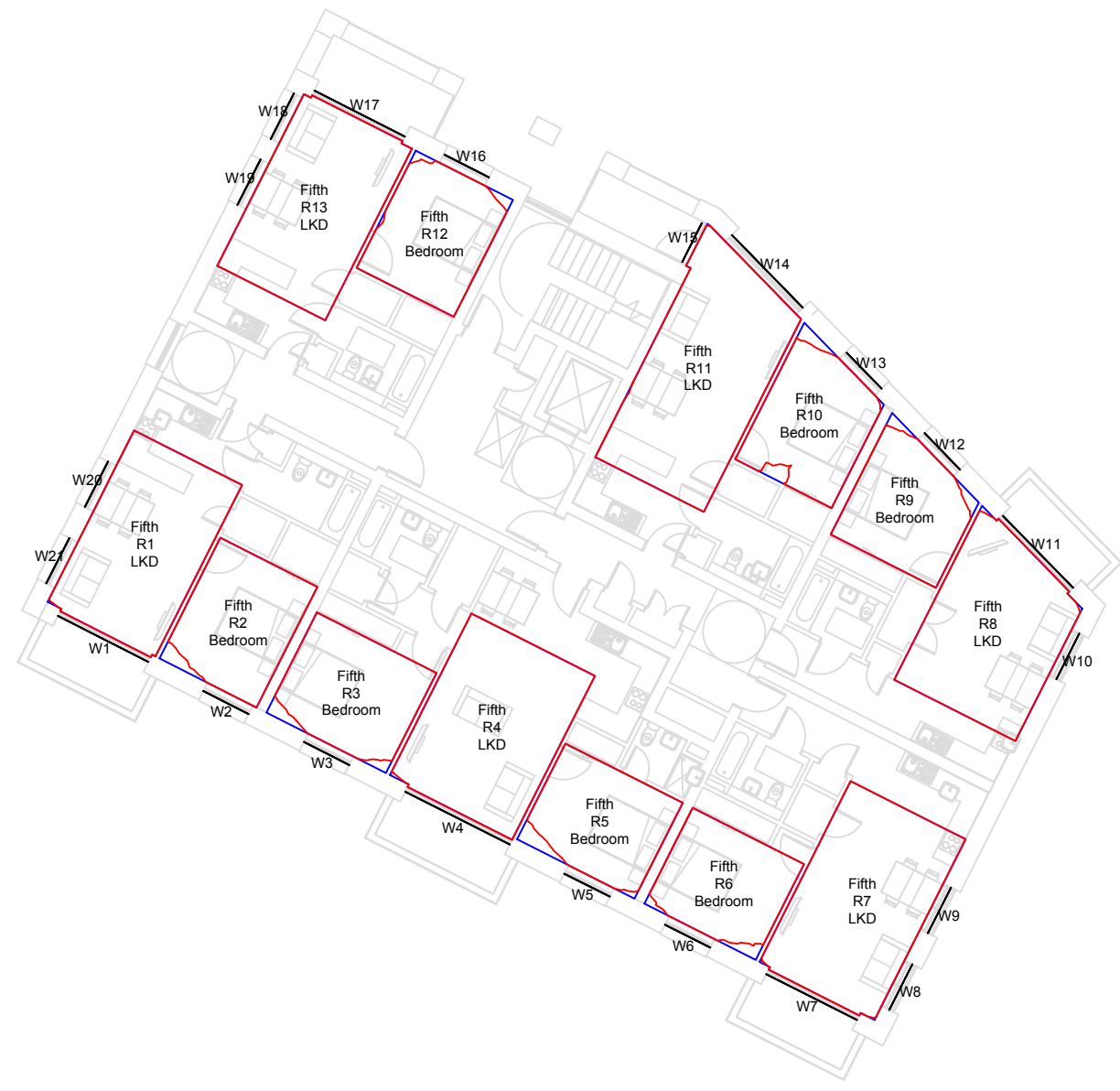
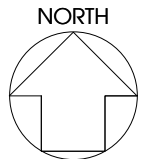
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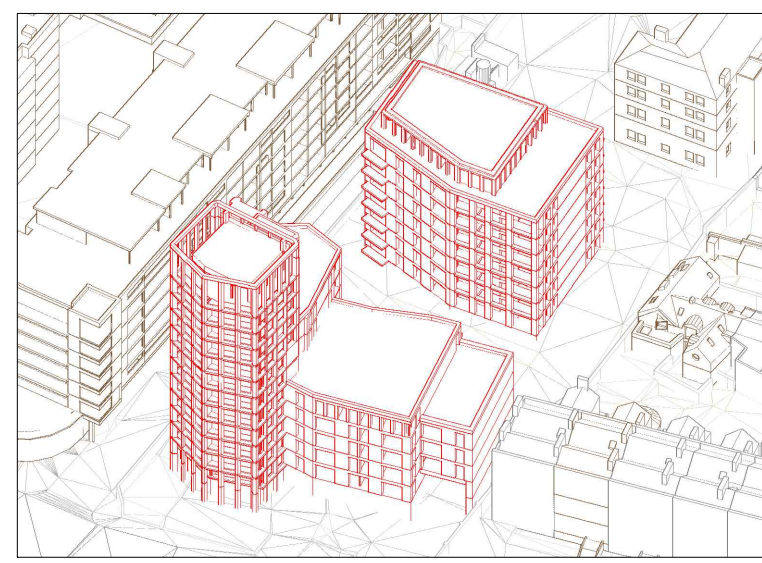
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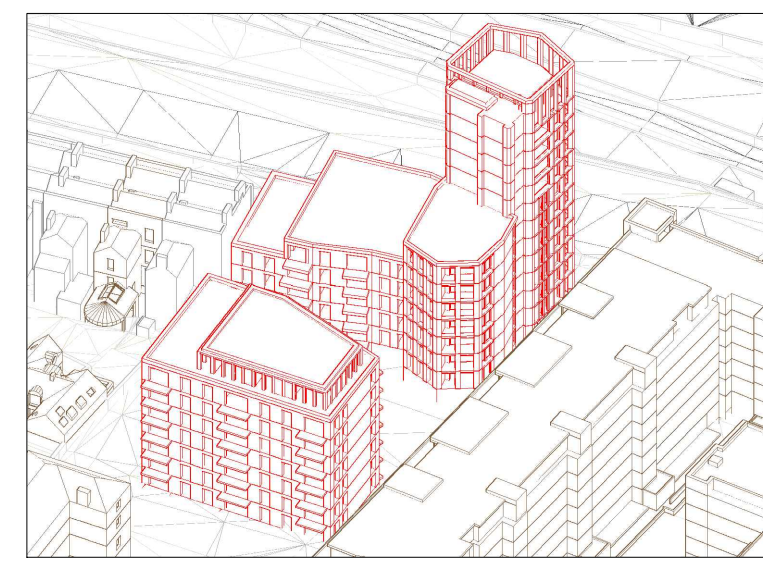
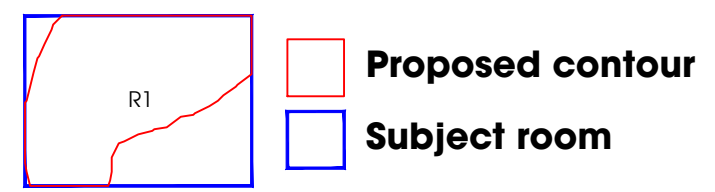


Proposed Block 2 - Fifth Floor



3D Context View - North

KEY



3D Context View - Xxxx

SOURCES OF INFORMATION:
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 3582 St Michaels Hospital, Dun Laoghaire - Elevations.dwg
 3582 St Michaels Hospital, Dun Laoghaire, ITM15_200_2D.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31001-P7-Building 01 - Ground, Mezza.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31002-P7-Building 01 - Third, Fourth.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31003-P7-Building 01 - Seventh, Eighth.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31004-P7-Building 01 - Roof Plan.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-32010-P7-Building 01 - Elevations 01.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-32011-P7-Building 01 - Elevations 02.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31001-P7-Building 02 - Ground, First.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31002-P7-Building 02 - Fourth, Fifth.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31003-P7-Building 02 - Roof Plan.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-32010-P7-Building 02 - Elevations 01.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31003-P7-Proposed Site Plan.dwg
 P18-143D-RAU-ZZ-DR-A-PL1-33001-P7-Sections A-A and B-B.dwg
 P18-143D-RAU-ZZ-DR-A-PL1-33002-P7-Section C-C and Section D-D.dwg
 Proposed Building 01 - L01 - First Level Floor Plan.dwg
 Proposed Building 01 - L02 - Second Floor Plan.dwg
 Building 02 - L01 - First Floor Plan.dwg
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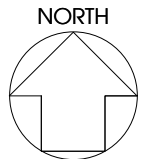
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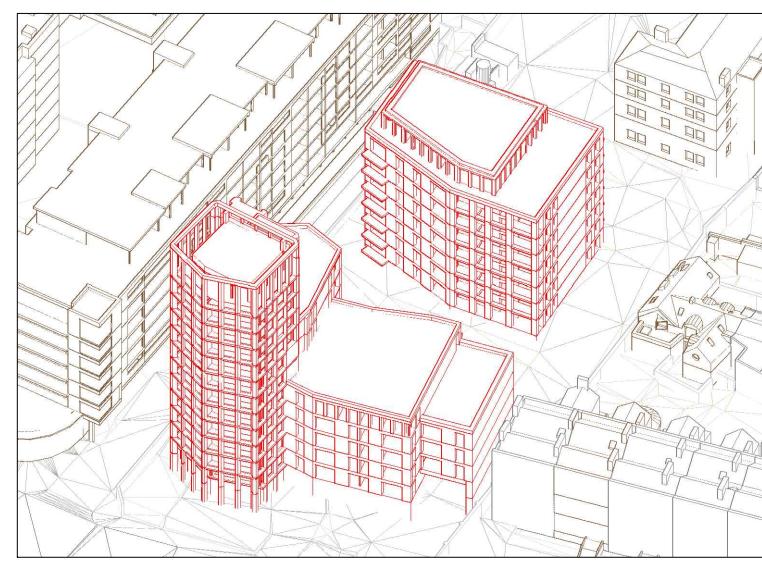
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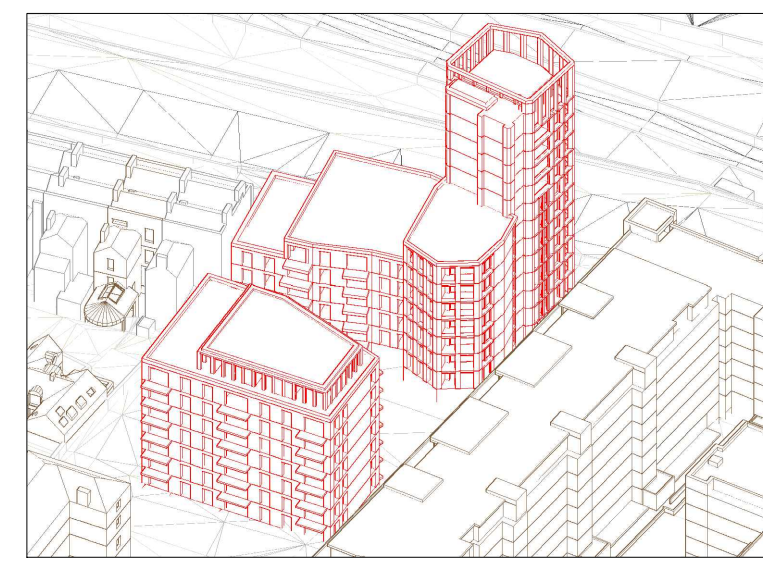
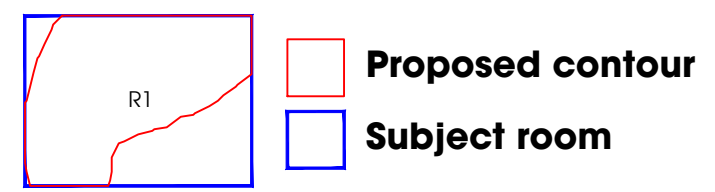


Proposed Block 2 - Sixth Floor



3D Context View - North

KEY



3D Context View - Xxxx

SOURCES OF INFORMATION:
 REDDY ARCHITECTURE
 3582 St Michaels Hospital, Dun Laoghaire - Elevations.dwg
 3582 St Michaels Hospital, Dun Laoghaire, ITM15_200_2D.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31001-P7-Building 01 - Ground, Mezza.dwg
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 P18-143D-RAU-01-ZZ-DR-A-PL1-31004-P7-Building 01 - Roof Plan.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-32010-P7-Building 01 - Elevations 01.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-32011-P7-Building 01 - Elevations 02.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31001-P7-Building 02 - Ground, First.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31002-P7-Building 02 - Fourth, Fifth.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31003-P7-Building 02 - Roof Plan.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-32010-P7-Building 02 - Elevations 01.dwg
 P18-143D-RAU-ZZ-DR-A-PL1-31003-P7-Proposed Site Plan.dwg
 P18-143D-RAU-ZZ-DR-A-PL1-33001-P7-Sections A-A and B-B.dwg
 P18-143D-RAU-ZZ-DR-A-PL1-33002-P7-Section C-C and Section D-D.dwg
 Proposed Building 01 - L01 - First Level Floor Plan.dwg
 Proposed Building 01 - L02 - Second Floor Plan.dwg
 Building 02 - L01 - First Floor Plan.dwg
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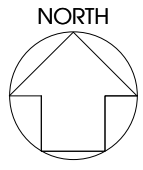
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Proposed Block 2 - Seventh Floor

SOURCES OF INFORMATION:
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 3582 St Michaels Hospital, Dun Laoghaire - Elevations.dwg
 3582 St Michaels Hospital, Dun Laoghaire, ITM15_200_2D.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31001-P7-Building 01 - Ground, Mezza.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31002-P7-Building 01 - Third, Fourth.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31003-P7-Building 01 - Seventh, Eighth.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31004-P7-Building 01 - Roof Plan.dwg
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 P18-143D-RAU-01-ZZ-DR-A-PL1-32011-P7-Building 01 - Elevations 02.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31001-P7-Building 02 - Ground, First.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31002-P7-Building 02 - Fourth, Fifth.dwg
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 P18-143D-RAU-ZZ-DR-A-PL1-33002-P7-Section C-C and Section D-D.dwg
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 Proposed Building 01 - L02 - Second Floor Plan.dwg
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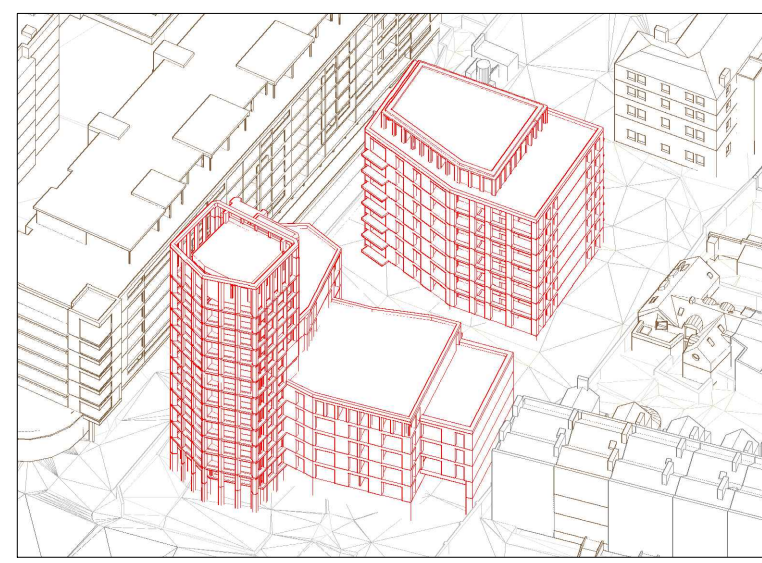
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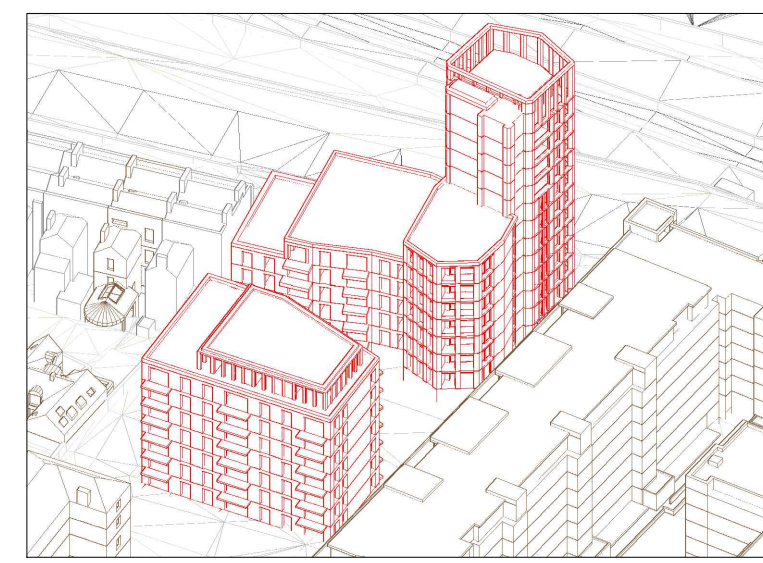
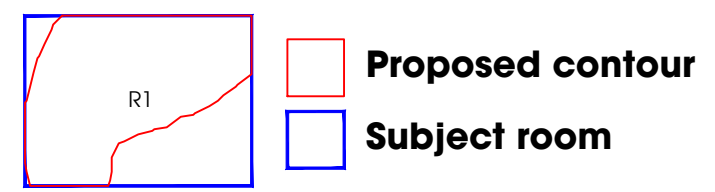
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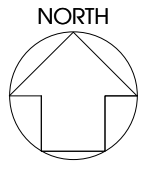


3D Context View - North

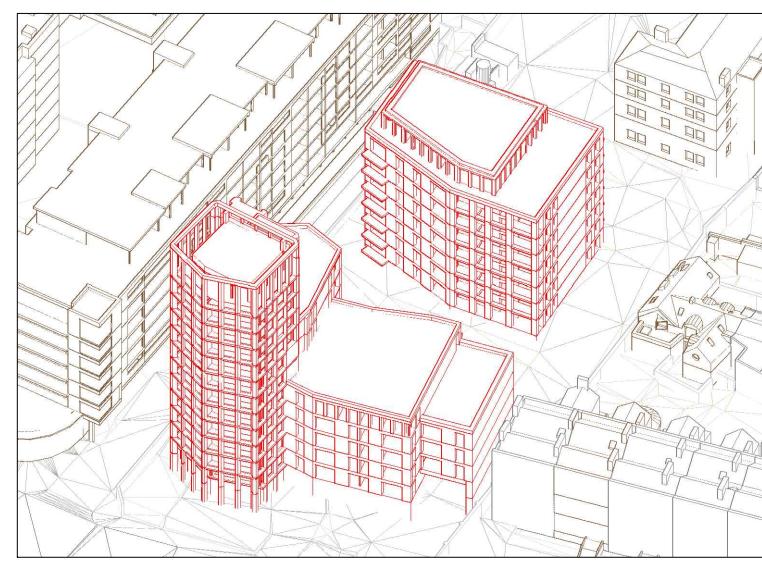
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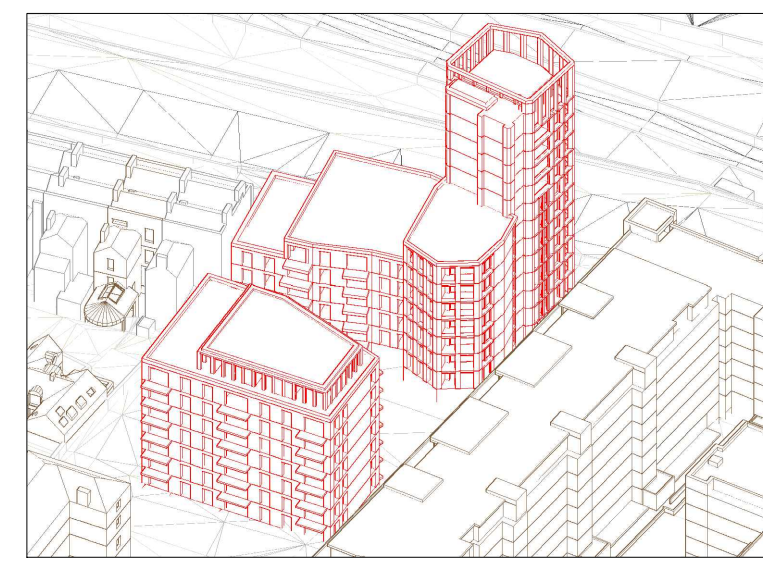
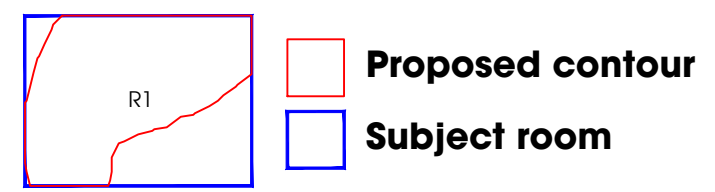


Proposed Block 2 - Eighth Floor



3D Context View - North

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3D Context View - Xxxx

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 P18-143D-RAU-01-ZZ-DR-A-PL1-31002-P7-Building 01 - Third, Fourth.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31003-P7-Building 01 - Seventh, Eigh.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-31004-P7-Building 01 - Roof Plan.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-32010-P7-Building 01 - Elevations 01.dwg
 P18-143D-RAU-01-ZZ-DR-A-PL1-32011-P7-Building 01 - Elevations 02.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31001-P7-Building 02 - Ground, First.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31002-P7-Building 02 - Fourth, Fifth.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-31003-P7-Building 02 - Roof Plan.dwg
 P18-143D-RAU-02-ZZ-DR-A-PL1-32010-P7-Building 02 - Elevations 01.dwg
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 Proposed Building 01 - L01 - First Level Floor Plan.dwg
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 Proposed Block 2**

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Appendix D

Daylight study



| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Proposed Block 1 | | | | | | |
| First | R1 | Bedroom | W1-L | 32.09 | 0.16 | |
| First | R1 | Bedroom | W1-U | 16.5 | 1.04 | |
| Total | | | | | 1.20 | YES |
| First | R2 | Bedroom | W2-L | 40.69 | 0.10 | |
| First | R2 | Bedroom | W2-U | 35.81 | 1.19 | |
| Total | | | | | 1.30 | YES |
| First | R3 | LKD | W3-L | 26.57 | 0.08 | |
| First | R3 | LKD | W3-U | 11.46 | 0.44 | |
| Total | | | | | 0.52 | NO |
| First | R4 | Bedroom | W4-L | 40.6 | 0.12 | |
| First | R4 | Bedroom | W4-U | 38.72 | 1.54 | |
| Total | | | | | 1.66 | YES |
| First | R5 | Bedroom | W5-L | 32.95 | 0.08 | |
| First | R5 | Bedroom | W5-U | 29.43 | 0.97 | |
| Total | | | | | 1.05 | YES |
| First | R6 | LKD | W6-L | 30.41 | 0.05 | |
| First | R6 | LKD | W6-U | 21.41 | 0.48 | |
| First | R6 | LKD | W7-L | 18.22 | 0.07 | |
| First | R6 | LKD | W7-U | 9.84 | 0.48 | |
| Total | | | | | 1.09 | NO |
| First | R7 | LKD | W8-L | 23.73 | 0.11 | |
| First | R7 | LKD | W8-U | 10.11 | 0.63 | |
| First | R7 | LKD | W9-L | 27.2 | 0.04 | |
| First | R7 | LKD | W9-U | 21.72 | 0.42 | |
| Total | | | | | 1.21 | NO |
| First | R8 | Bedroom | W10-L | 38.32 | 0.07 | |
| First | R8 | Bedroom | W10-U | 39.59 | 0.98 | |
| First | R8 | Bedroom | W11-L | 39.18 | 0.04 | |
| First | R8 | Bedroom | W11-U | 39.47 | 0.55 | |
| Total | | | | | 1.64 | YES |
| First | R9 | Bedroom | W12-L | 36.98 | 0.03 | |
| First | R9 | Bedroom | W12-U | 35.92 | 0.38 | |
| First | R9 | Bedroom | W13-L | 23.88 | 0.02 | |
| First | R9 | Bedroom | W13-U | 23.2 | 0.20 | |
| First | R9 | Bedroom | W14-L | 38.71 | 0.03 | |
| First | R9 | Bedroom | W14-U | 37.63 | 0.40 | |
| First | R9 | Bedroom | W15-L | 23.68 | 0.02 | |
| First | R9 | Bedroom | W15-U | 23 | 0.20 | |
| First | R9 | Bedroom | W16-L | 40.45 | 0.03 | |
| First | R9 | Bedroom | W16-U | 39.34 | 0.42 | |
| Total | | | | | 1.73 | YES |
| First | R10 | LKD | W17-L | 41.76 | 0.07 | |
| First | R10 | LKD | W17-U | 38.3 | 0.82 | |
| First | R10 | LKD | W18-L | 42.28 | 0.02 | |
| First | R10 | LKD | W18-U | 39.32 | 0.29 | |
| First | R10 | LKD | W19-L | 51.61 | 0.35 | |
| First | R10 | LKD | W19-U | 35.37 | 3.11 | |
| Total | | | | | 4.66 | YES |
| First | R11 | LKD | W20-L | 53.03 | 0.36 | |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| First | R11 | LKD | W20-U | 36.31 | 3.17 | |
| First | R11 | LKD | W21-L | 60.84 | 0.03 | |
| First | R11 | LKD | W21-U | 57.35 | 0.39 | |
| First | R11 | LKD | W22-L | 59.9 | 0.10 | |
| First | R11 | LKD | W22-U | 56.08 | 1.19 | |
| Total | | | | | 5.23 | YES |
| First | R12 | Bedroom | W23-L | 53.9 | 0.15 | |
| First | R12 | Bedroom | W23-U | 50.7 | 1.87 | |
| Total | | | | | 2.02 | YES |
| First | R13 | Bedroom | W24-L | 56.6 | 0.13 | |
| First | R13 | Bedroom | W24-U | 53.49 | 1.64 | |
| Total | | | | | 1.78 | YES |
| First | R14 | LKD | W25-L | 77.82 | 0.24 | |
| First | R14 | LKD | W25-U | 71.69 | 2.88 | |
| Total | | | | | 3.12 | YES |
| First | R15 | Bedroom | W26-L | 80.85 | 0.44 | |
| First | R15 | Bedroom | W26-U | N/A | N/R | |
| Total | | | | | 0.44 | NO |
| First | R16 | Bedroom | W26-L | 80.85 | 0.43 | |
| First | R16 | Bedroom | W26-U | N/A | N/R | |
| Total | | | | | 0.43 | NO |
| First | R17 | LKD | W27-L | 83.77 | 0.26 | |
| First | R17 | LKD | W27-U | 75.76 | 3.02 | |
| First | R17 | LKD | W28-L | 50.66 | 0.07 | |
| First | R17 | LKD | W28-U | 47.14 | 0.84 | |
| Total | | | | | 4.18 | YES |
| Second | R1 | Bedroom | W1-L | 53.79 | 0.15 | |
| Second | R1 | Bedroom | W1-U | 48.94 | 1.78 | |
| Total | | | | | 1.93 | YES |
| Second | R2 | Bedroom | W2-L | 50.67 | 0.13 | |
| Second | R2 | Bedroom | W2-U | 46.26 | 1.52 | |
| Total | | | | | 1.65 | YES |
| Second | R3 | LKD | W3-L | 35.32 | 0.10 | |
| Second | R3 | LKD | W3-U | 18.28 | 0.68 | |
| Total | | | | | 0.78 | NO |
| Second | R4 | Bedroom | W4-L | 44.07 | 0.10 | |
| Second | R4 | Bedroom | W4-U | 39.61 | 1.22 | |
| Total | | | | | 1.32 | YES |
| Second | R5 | LKD | W5-L | 32.1 | 0.11 | |
| Second | R5 | LKD | W5-U | 13.61 | 0.60 | |
| Total | | | | | 0.71 | NO |
| Second | R6 | Bedroom | W6-L | 42.74 | 0.13 | |
| Second | R6 | Bedroom | W6-U | 39.05 | 1.55 | |
| Total | | | | | 1.68 | YES |
| Second | R7 | Bedroom | W7-L | 35.77 | 0.09 | |
| Second | R7 | Bedroom | W7-U | 32.67 | 1.08 | |
| Total | | | | | 1.17 | YES |
| Second | R8 | LKD | W8-L | 31.86 | 0.06 | |
| Second | R8 | LKD | W8-U | 22.06 | 0.50 | |
| Second | R8 | LKD | W9-L | 20.82 | 0.08 | |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Second | R8 | LKD | W9-U | 10.13 | 0.50 | |
| Total | | | | | 1.13 | NO |
| Second | R9 | LKD | W10-L | 25.11 | 0.12 | |
| Second | R9 | LKD | W10-U | 10.54 | 0.68 | |
| Second | R9 | LKD | W11-L | 31.11 | 0.04 | |
| Second | R9 | LKD | W11-U | 26.8 | 0.43 | |
| Total | | | | | 1.27 | NO |
| Second | R10 | Bedroom | W12-L | 41.88 | 0.08 | |
| Second | R10 | Bedroom | W12-U | 43.52 | 1.08 | |
| Second | R10 | Bedroom | W13-L | 40.19 | 0.04 | |
| Second | R10 | Bedroom | W13-U | 40.59 | 0.56 | |
| Total | | | | | 1.76 | YES |
| Second | R11 | Bedroom | W14-L | 38.72 | 0.03 | |
| Second | R11 | Bedroom | W14-U | 37.85 | 0.41 | |
| Second | R11 | Bedroom | W15-L | 27.58 | 0.02 | |
| Second | R11 | Bedroom | W15-U | 27.41 | 0.23 | |
| Second | R11 | Bedroom | W16-L | 40.26 | 0.03 | |
| Second | R11 | Bedroom | W16-U | 39.3 | 0.42 | |
| Second | R11 | Bedroom | W17-L | 27.39 | 0.02 | |
| Second | R11 | Bedroom | W17-U | 27.21 | 0.23 | |
| Second | R11 | Bedroom | W18-L | 41.82 | 0.03 | |
| Second | R11 | Bedroom | W18-U | 40.81 | 0.44 | |
| Total | | | | | 1.86 | YES |
| Second | R12 | LKD | W19-L | 44.61 | 0.07 | |
| Second | R12 | LKD | W19-U | 41.64 | 0.90 | |
| Second | R12 | LKD | W20-L | 44.27 | 0.03 | |
| Second | R12 | LKD | W20-U | 41.64 | 0.31 | |
| Second | R12 | LKD | W21-L | 50.52 | 0.28 | |
| Second | R12 | LKD | W21-U | 34.49 | 2.51 | |
| Total | | | | | 4.11 | YES |
| Second | R13 | LKD | W22-L | 51.45 | 0.29 | |
| Second | R13 | LKD | W22-U | 34.99 | 2.56 | |
| Second | R13 | LKD | W23-L | 64.98 | 0.04 | |
| Second | R13 | LKD | W23-U | 61.65 | 0.46 | |
| Second | R13 | LKD | W24-L | 60.55 | 0.10 | |
| Second | R13 | LKD | W24-U | 56.62 | 1.21 | |
| Total | | | | | 4.66 | YES |
| Second | R14 | Bedroom | W25-L | 53.96 | 0.15 | |
| Second | R14 | Bedroom | W25-U | 50.71 | 1.87 | |
| Total | | | | | 2.02 | YES |
| Second | R15 | Bedroom | W26-L | 56.66 | 0.13 | |
| Second | R15 | Bedroom | W26-U | 53.51 | 1.64 | |
| Total | | | | | 1.78 | YES |
| Second | R16 | LKD | W27-L | 77.86 | 0.24 | |
| Second | R16 | LKD | W27-U | 71.7 | 2.88 | |
| Total | | | | | 3.12 | YES |
| Second | R17 | Bedroom | W28-L | 72.84 | 0.18 | |
| Second | R17 | Bedroom | W28-U | 66.91 | 2.10 | |
| Total | | | | | 2.28 | YES |
| Second | R18 | Bedroom | W29-L | 72.84 | 0.17 | |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Second | R18 | Bedroom | W29-U | 66.91 | 2.07 | |
| | | | | Total | 2.25 | YES |
| Second | R19 | LKD | W30-L | 83.89 | 0.26 | |
| Second | R19 | LKD | W30-U | 75.78 | 3.02 | |
| Second | R19 | LKD | W31-L | 52.88 | 0.07 | |
| Second | R19 | LKD | W31-U | 49.56 | 0.88 | |
| | | | | Total | 4.23 | YES |
| Second | R20 | LKD | W32-L | 63.55 | 0.21 | |
| Second | R20 | LKD | W32-U | 59.39 | 2.54 | |
| | | | | Total | 2.75 | YES |
| Second | R21 | Bedroom | W33-L | 73.4 | 0.16 | |
| Second | R21 | Bedroom | W33-U | 67.32 | 1.90 | |
| | | | | Total | 2.06 | YES |
| Third | R1 | Bedroom | W1-L | 56.7 | 0.16 | |
| Third | R1 | Bedroom | W1-U | 52.02 | 1.89 | |
| | | | | Total | 2.05 | YES |
| Third | R2 | Bedroom | W2-L | 53.88 | 0.14 | |
| Third | R2 | Bedroom | W2-U | 49.27 | 1.62 | |
| | | | | Total | 1.76 | YES |
| Third | R3 | LKD | W3-L | 39.33 | 0.11 | |
| Third | R3 | LKD | W3-U | 19.82 | 0.74 | |
| | | | | Total | 0.85 | NO |
| Third | R4 | Bedroom | W4-L | 47.93 | 0.11 | |
| Third | R4 | Bedroom | W4-U | 43.77 | 1.35 | |
| | | | | Total | 1.46 | YES |
| Third | R5 | LKD | W5-L | 36.81 | 0.13 | |
| Third | R5 | LKD | W5-U | 15.47 | 0.68 | |
| | | | | Total | 0.81 | NO |
| Third | R6 | Bedroom | W6-L | 46.51 | 0.14 | |
| Third | R6 | Bedroom | W6-U | 43.08 | 1.71 | |
| | | | | Total | 1.85 | YES |
| Third | R7 | Bedroom | W7-L | 38.94 | 0.10 | |
| Third | R7 | Bedroom | W7-U | 36.11 | 1.19 | |
| | | | | Total | 1.29 | YES |
| Third | R8 | LKD | W8-L | 34.26 | 0.06 | |
| Third | R8 | LKD | W8-U | 22.67 | 0.51 | |
| Third | R8 | LKD | W9-L | 23.59 | 0.09 | |
| Third | R8 | LKD | W9-U | 10.37 | 0.51 | |
| | | | | Total | 1.17 | NO |
| Third | R9 | LKD | W10-L | 28.06 | 0.14 | |
| Third | R9 | LKD | W10-U | 12.67 | 0.81 | |
| Third | R9 | LKD | W11-L | 36.57 | 0.05 | |
| Third | R9 | LKD | W11-U | 33.59 | 0.54 | |
| | | | | Total | 1.54 | NO |
| Third | R10 | Bedroom | W12-L | 46.58 | 0.09 | |
| Third | R10 | Bedroom | W12-U | 48.81 | 1.21 | |
| Third | R10 | Bedroom | W13-L | 41.55 | 0.04 | |
| Third | R10 | Bedroom | W13-U | 42.1 | 0.58 | |
| | | | | Total | 1.92 | YES |
| Third | R11 | Bedroom | W14-L | 41.09 | 0.03 | |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Third | R11 | Bedroom | W14-U | 40.63 | 0.44 | |
| Third | R11 | Bedroom | W15-L | 32.07 | 0.02 | |
| Third | R11 | Bedroom | W15-U | 32.47 | 0.28 | |
| Third | R11 | Bedroom | W16-L | 42.33 | 0.04 | |
| Third | R11 | Bedroom | W16-U | 41.75 | 0.45 | |
| Third | R11 | Bedroom | W17-L | 31.88 | 0.02 | |
| Third | R11 | Bedroom | W17-U | 32.29 | 0.27 | |
| Third | R11 | Bedroom | W18-L | 43.62 | 0.04 | |
| Third | R11 | Bedroom | W18-U | 42.91 | 0.46 | |
| Total | | | | | 2.04 | YES |
| Third | R12 | LKD | W19-L | 48.39 | 0.08 | |
| Third | R12 | LKD | W19-U | 45.98 | 1.00 | |
| Third | R12 | LKD | W20-L | 46.95 | 0.03 | |
| Third | R12 | LKD | W20-U | 44.76 | 0.33 | |
| Third | R12 | LKD | W21-L | 50.58 | 0.28 | |
| Third | R12 | LKD | W21-U | 34.52 | 2.52 | |
| Total | | | | | 4.24 | YES |
| Third | R13 | LKD | W22-L | 51.45 | 0.29 | |
| Third | R13 | LKD | W22-U | 35 | 2.56 | |
| Third | R13 | LKD | W23-L | 65.73 | 0.04 | |
| Third | R13 | LKD | W23-U | 62.43 | 0.47 | |
| Third | R13 | LKD | W24-L | 61.61 | 0.10 | |
| Third | R13 | LKD | W24-U | 57.55 | 1.23 | |
| Total | | | | | 4.69 | YES |
| Third | R14 | Bedroom | W25-L | 54.05 | 0.15 | |
| Third | R14 | Bedroom | W25-U | 50.73 | 1.87 | |
| Total | | | | | 2.02 | YES |
| Third | R15 | Bedroom | W26-L | 56.66 | 0.13 | |
| Third | R15 | Bedroom | W26-U | 53.5 | 1.64 | |
| Total | | | | | 1.78 | YES |
| Third | R16 | LKD | W27-L | 77.86 | 0.24 | |
| Third | R16 | LKD | W27-U | 71.7 | 2.88 | |
| Total | | | | | 3.12 | YES |
| Third | R17 | Bedroom | W28-L | 72.84 | 0.18 | |
| Third | R17 | Bedroom | W28-U | 66.91 | 2.10 | |
| Total | | | | | 2.28 | YES |
| Third | R18 | Bedroom | W29-L | 72.84 | 0.17 | |
| Third | R18 | Bedroom | W29-U | 66.91 | 2.07 | |
| Total | | | | | 2.25 | YES |
| Third | R19 | LKD | W30-L | 83.89 | 0.26 | |
| Third | R19 | LKD | W30-U | 75.78 | 3.02 | |
| Third | R19 | LKD | W31-L | 55.71 | 0.08 | |
| Third | R19 | LKD | W31-U | 52.48 | 0.93 | |
| Total | | | | | 4.29 | YES |
| Third | R20 | LKD | W32-L | 63.79 | 0.21 | |
| Third | R20 | LKD | W32-U | 59.67 | 2.55 | |
| Total | | | | | 2.76 | YES |
| Third | R21 | Bedroom | W33-L | 73.43 | 0.16 | |
| Third | R21 | Bedroom | W33-U | 67.35 | 1.90 | |
| Total | | | | | 2.06 | YES |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Fourth | R1 | Bedroom | W1-L | 59.94 | 0.17 | |
| Fourth | R1 | Bedroom | W1-U | 55.34 | 2.01 | |
| Total | | | | | 2.18 | YES |
| Fourth | R2 | Bedroom | W2-L | 57.92 | 0.15 | |
| Fourth | R2 | Bedroom | W2-U | 53.39 | 1.76 | |
| Total | | | | | 1.91 | YES |
| Fourth | R3 | LKD | W3-L | 44.69 | 0.13 | |
| Fourth | R3 | LKD | W3-U | 22.75 | 0.85 | |
| Total | | | | | 0.98 | NO |
| Fourth | R4 | Bedroom | W4-L | 52.55 | 0.12 | |
| Fourth | R4 | Bedroom | W4-U | 48.28 | 1.49 | |
| Total | | | | | 1.61 | YES |
| Fourth | R5 | LKD | W5-L | 41.74 | 0.14 | |
| Fourth | R5 | LKD | W5-U | 18.52 | 0.82 | |
| Total | | | | | 0.96 | NO |
| Fourth | R6 | Bedroom | W6-L | 50.88 | 0.16 | |
| Fourth | R6 | Bedroom | W6-U | 47.34 | 1.88 | |
| Total | | | | | 2.03 | YES |
| Fourth | R7 | Bedroom | W7-L | 42.35 | 0.11 | |
| Fourth | R7 | Bedroom | W7-U | 39.75 | 1.31 | |
| Total | | | | | 1.42 | YES |
| Fourth | R8 | LKD | W8-L | 37.16 | 0.06 | |
| Fourth | R8 | LKD | W8-U | 24.8 | 0.56 | |
| Fourth | R8 | LKD | W9-L | 26.78 | 0.10 | |
| Fourth | R8 | LKD | W9-U | 10.56 | 0.52 | |
| Total | | | | | 1.24 | NO |
| Fourth | R9 | LKD | W10-L | 32.03 | 0.16 | |
| Fourth | R9 | LKD | W10-U | 15.84 | 1.02 | |
| Fourth | R9 | LKD | W11-L | 43.24 | 0.05 | |
| Fourth | R9 | LKD | W11-U | 41.14 | 0.66 | |
| Total | | | | | 1.89 | NO |
| Fourth | R10 | Bedroom | W12-L | 52.74 | 0.10 | |
| Fourth | R10 | Bedroom | W12-U | 55.62 | 1.37 | |
| Fourth | R10 | Bedroom | W13-L | 43.28 | 0.05 | |
| Fourth | R10 | Bedroom | W13-U | 43.96 | 0.61 | |
| Total | | | | | 2.13 | YES |
| Fourth | R11 | Bedroom | W14-L | 44.39 | 0.04 | |
| Fourth | R11 | Bedroom | W14-U | 44.38 | 0.48 | |
| Fourth | R11 | Bedroom | W15-L | 37.37 | 0.02 | |
| Fourth | R11 | Bedroom | W15-U | 38.24 | 0.32 | |
| Fourth | R11 | Bedroom | W16-L | 45.29 | 0.04 | |
| Fourth | R11 | Bedroom | W16-U | 45.17 | 0.48 | |
| Fourth | R11 | Bedroom | W17-L | 37.22 | 0.02 | |
| Fourth | R11 | Bedroom | W17-U | 38.12 | 0.32 | |
| Fourth | R11 | Bedroom | W18-L | 46.23 | 0.04 | |
| Fourth | R11 | Bedroom | W18-U | 45.97 | 0.49 | |
| Total | | | | | 2.26 | YES |
| Fourth | R12 | LKD | W19-L | 53.56 | 0.09 | |
| Fourth | R12 | LKD | W19-U | 51.86 | 1.12 | |
| Fourth | R12 | LKD | W20-L | 50.84 | 0.03 | |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Fourth | R12 | LKD | W20-U | 49.26 | 0.37 | |
| Fourth | R12 | LKD | W21-L | 50.62 | 0.29 | |
| Fourth | R12 | LKD | W21-U | 34.55 | 2.52 | |
| Total | | | | | 4.41 | YES |
| Fourth | R13 | LKD | W22-L | 51.45 | 0.29 | |
| Fourth | R13 | LKD | W22-U | 34.99 | 2.56 | |
| Fourth | R13 | LKD | W23-L | 66.61 | 0.04 | |
| Fourth | R13 | LKD | W23-U | 63.33 | 0.47 | |
| Fourth | R13 | LKD | W24-L | 63.71 | 0.11 | |
| Fourth | R13 | LKD | W24-U | 59.84 | 1.28 | |
| Total | | | | | 4.75 | YES |
| Fourth | R14 | Bedroom | W25-L | 54.41 | 0.15 | |
| Fourth | R14 | Bedroom | W25-U | 51.09 | 1.88 | |
| Total | | | | | 2.03 | YES |
| Fourth | R15 | Bedroom | W26-L | 56.66 | 0.13 | |
| Fourth | R15 | Bedroom | W26-U | 53.5 | 1.64 | |
| Total | | | | | 1.78 | YES |
| Fourth | R16 | LKD | W27-L | 77.86 | 0.24 | |
| Fourth | R16 | LKD | W27-U | 71.7 | 2.88 | |
| Total | | | | | 3.12 | YES |
| Fourth | R17 | Bedroom | W28-L | 72.84 | 0.18 | |
| Fourth | R17 | Bedroom | W28-U | 66.91 | 2.10 | |
| Total | | | | | 2.28 | YES |
| Fourth | R18 | Bedroom | W29-L | 72.84 | 0.17 | |
| Fourth | R18 | Bedroom | W29-U | 66.91 | 2.07 | |
| Total | | | | | 2.25 | YES |
| Fourth | R19 | LKD | W30-L | 83.9 | 0.26 | |
| Fourth | R19 | LKD | W30-U | 75.78 | 3.02 | |
| Fourth | R19 | LKD | W31-L | 61.11 | 0.08 | |
| Fourth | R19 | LKD | W31-U | 59.69 | 1.06 | |
| Total | | | | | 4.42 | YES |
| Fourth | R20 | LKD | W32-L | 64.94 | 0.21 | |
| Fourth | R20 | LKD | W32-U | 61.13 | 2.61 | |
| Total | | | | | 2.83 | YES |
| Fourth | R21 | Bedroom | W33-L | 73.48 | 0.16 | |
| Fourth | R21 | Bedroom | W33-U | 67.4 | 1.90 | |
| Total | | | | | 2.06 | YES |
| Fifth | R1 | Bedroom | W1-L | 70.22 | 0.16 | |
| Fifth | R1 | Bedroom | W1-U | 65.86 | 1.98 | |
| Fifth | R1 | Bedroom | W2-L | 64.42 | 0.31 | |
| Fifth | R1 | Bedroom | W2-U | 58.09 | 3.58 | |
| Total | | | | | 6.02 | YES |
| Fifth | R2 | Bedroom | W3-L | 58.49 | 0.15 | |
| Fifth | R2 | Bedroom | W3-U | 54.61 | 1.83 | |
| Total | | | | | 1.98 | YES |
| Fifth | R3 | LKD | W4-L | 61.71 | 0.18 | |
| Fifth | R3 | LKD | W4-U | 56.52 | 2.12 | |
| Total | | | | | 2.30 | YES |
| Fifth | R4 | Bedroom | W5-L | 56.26 | 0.17 | |
| Fifth | R4 | Bedroom | W5-U | 52.77 | 2.09 | |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Total | | | | | 2.26 | YES |
| Fifth | R5 | Bedroom | W6-L | 46 | 0.12 | |
| Fifth | R5 | Bedroom | W6-U | 43.5 | 1.43 | |
| Total | | | | | 1.55 | YES |
| Fifth | R6 | LKD | W7-L | 41.29 | 0.07 | |
| Fifth | R6 | LKD | W7-U | 28.45 | 0.64 | |
| Fifth | R6 | LKD | W8-L | 30.4 | 0.11 | |
| Fifth | R6 | LKD | W8-U | 12.34 | 0.60 | |
| Fifth | R6 | LKD | W9-L | 30.4 | 0.11 | |
| Fifth | R6 | LKD | W9-U | 12.34 | 0.60 | |
| Total | | | | | 2.15 | YES |
| Fifth | R7 | LKD | W10-L | 36.21 | 0.18 | |
| Fifth | R7 | LKD | W10-U | 19.96 | 1.28 | |
| Fifth | R7 | LKD | W11-L | 50.95 | 0.06 | |
| Fifth | R7 | LKD | W11-U | 49.67 | 0.80 | |
| Total | | | | | 2.32 | YES |
| Fifth | R8 | Bedroom | W12-L | 60.54 | 0.12 | |
| Fifth | R8 | Bedroom | W12-U | 64.13 | 1.58 | |
| Fifth | R8 | Bedroom | W13-L | 45.31 | 0.05 | |
| Fifth | R8 | Bedroom | W13-U | 46.07 | 0.64 | |
| Total | | | | | 2.39 | YES |
| Fifth | R9 | Bedroom | W14-L | 48.61 | 0.04 | |
| Fifth | R9 | Bedroom | W14-U | 48.98 | 0.52 | |
| Fifth | R9 | Bedroom | W15-L | 43.43 | 0.03 | |
| Fifth | R9 | Bedroom | W15-U | 44.64 | 0.38 | |
| Fifth | R9 | Bedroom | W16-L | 49.23 | 0.04 | |
| Fifth | R9 | Bedroom | W16-U | 49.5 | 0.53 | |
| Fifth | R9 | Bedroom | W17-L | 43.38 | 0.03 | |
| Fifth | R9 | Bedroom | W17-U | 44.65 | 0.38 | |
| Fifth | R9 | Bedroom | W18-L | 49.79 | 0.04 | |
| Fifth | R9 | Bedroom | W18-U | 49.94 | 0.53 | |
| Total | | | | | 2.53 | YES |
| Fifth | R10 | LKD | W19-L | 60.17 | 0.10 | |
| Fifth | R10 | LKD | W19-U | 59.09 | 1.28 | |
| Fifth | R10 | LKD | W20-L | 55.85 | 0.03 | |
| Fifth | R10 | LKD | W20-U | 54.78 | 0.41 | |
| Fifth | R10 | LKD | W21-L | 50.88 | 0.29 | |
| Fifth | R10 | LKD | W21-U | 34.58 | 2.52 | |
| Total | | | | | 4.63 | YES |
| Fifth | R11 | LKD | W22-L | 51.45 | 0.29 | |
| Fifth | R11 | LKD | W22-U | 35 | 2.56 | |
| Fifth | R11 | LKD | W23-L | 67.53 | 0.04 | |
| Fifth | R11 | LKD | W23-U | 64.16 | 0.48 | |
| Fifth | R11 | LKD | W24-L | 68.24 | 0.11 | |
| Fifth | R11 | LKD | W24-U | 65.63 | 1.40 | |
| Total | | | | | 4.89 | YES |
| Fifth | R12 | Bedroom | W25-L | 56.36 | 0.16 | |
| Fifth | R12 | Bedroom | W25-U | 54.73 | 2.01 | |
| Total | | | | | 2.17 | YES |
| Fifth | R13 | Bedroom | W26-L | 56.67 | 0.13 | |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Fifth | R13 | Bedroom | W26-U | 53.51 | 1.64 | |
| Total | | | | | 1.78 | YES |
| Fifth | R14 | LKD | W27-L | 70.8 | 0.10 | |
| Fifth | R14 | LKD | W27-U | 65.36 | 1.17 | |
| Fifth | R14 | LKD | W28-L | 72.84 | 0.10 | |
| Fifth | R14 | LKD | W28-U | 66.91 | 1.20 | |
| Total | | | | | 2.57 | YES |
| Fifth | R15 | Bedroom | W29-L | 72.84 | 0.18 | |
| Fifth | R15 | Bedroom | W29-U | 66.91 | 2.10 | |
| Fifth | R15 | Bedroom | W30-L | 72.84 | 0.18 | |
| Fifth | R15 | Bedroom | W30-U | 66.91 | 2.10 | |
| Total | | | | | 4.55 | YES |
| Fifth | R16 | Bedroom | W31-L | 72.84 | 0.17 | |
| Fifth | R16 | Bedroom | W31-U | 66.91 | 2.07 | |
| Fifth | R16 | Bedroom | W32-L | 72.84 | 0.17 | |
| Fifth | R16 | Bedroom | W32-U | 66.91 | 2.07 | |
| Total | | | | | 4.49 | YES |
| Fifth | R17 | LKD | W33-L | 72.84 | 0.10 | |
| Fifth | R17 | LKD | W33-U | 66.91 | 1.16 | |
| Fifth | R17 | LKD | W34-L | 72.84 | 0.10 | |
| Fifth | R17 | LKD | W34-U | 66.91 | 1.16 | |
| Fifth | R17 | LKD | W35-L | 64.06 | 0.03 | |
| Fifth | R17 | LKD | W35-U | 60.6 | 0.40 | |
| Fifth | R17 | LKD | W36-L | 81.72 | 0.13 | |
| Fifth | R17 | LKD | W36-U | 74.37 | 1.57 | |
| Fifth | R17 | LKD | W37-L | 71.24 | 0.09 | |
| Fifth | R17 | LKD | W37-U | 66.58 | 1.14 | |
| Total | | | | | 5.89 | YES |
| Sixth | R1 | LKD | W1-L | 72.51 | 0.08 | |
| Sixth | R1 | LKD | W1-U | 69.07 | 1.04 | |
| Sixth | R1 | LKD | W2-L | 68.51 | 0.06 | |
| Sixth | R1 | LKD | W2-U | 65.18 | 0.70 | |
| Sixth | R1 | LKD | W3-L | N/A | 0.73 | |
| Sixth | R1 | LKD | W3-U | 0 | 1.20 | |
| Total | | | | | 3.79 | YES |
| Sixth | R2 | LKD | W4-L | N/A | 0.80 | |
| Sixth | R2 | LKD | W4-U | 0 | 1.39 | |
| Sixth | R2 | LKD | W5-L | 60.04 | 0.07 | |
| Sixth | R2 | LKD | W5-U | 59.13 | 0.95 | |
| Total | | | | | 3.21 | YES |
| Sixth | R3 | Bedroom | W6-L | 69.97 | 0.13 | |
| Sixth | R3 | Bedroom | W6-U | 74.09 | 1.83 | |
| Sixth | R3 | Bedroom | W7-L | 47.42 | 0.05 | |
| Sixth | R3 | Bedroom | W7-U | 48.13 | 0.67 | |
| Total | | | | | 2.68 | YES |
| Sixth | R4 | Bedroom | W8-L | 53.39 | 0.04 | |
| Sixth | R4 | Bedroom | W8-U | 53.68 | 0.57 | |
| Sixth | R4 | Bedroom | W9-L | 49.85 | 0.03 | |
| Sixth | R4 | Bedroom | W9-U | 50.99 | 0.43 | |
| Sixth | R4 | Bedroom | W10-L | 53.74 | 0.04 | |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Sixth | R4 | Bedroom | W10-U | 53.88 | 0.58 | |
| Sixth | R4 | Bedroom | W11-L | 49.9 | 0.03 | |
| Sixth | R4 | Bedroom | W11-U | 51.06 | 0.43 | |
| Sixth | R4 | Bedroom | W12-L | 54 | 0.04 | |
| Sixth | R4 | Bedroom | W12-U | 54.04 | 0.58 | |
| Total | | | | | 2.80 | YES |
| Sixth | R5 | LKD | W13-L | 68.1 | 0.11 | |
| Sixth | R5 | LKD | W13-U | 66.67 | 1.45 | |
| Sixth | R5 | LKD | W14-L | 61.69 | 0.04 | |
| Sixth | R5 | LKD | W14-U | 60.3 | 0.45 | |
| Sixth | R5 | LKD | W15-L | 51.18 | 0.29 | |
| Sixth | R5 | LKD | W15-U | 34.78 | 2.54 | |
| Total | | | | | 4.89 | YES |
| Sixth | R6 | LKD | W16-L | 51.45 | 0.29 | |
| Sixth | R6 | LKD | W16-U | 35 | 2.57 | |
| Sixth | R6 | LKD | W17-L | 64.11 | 0.04 | |
| Sixth | R6 | LKD | W17-U | 60.18 | 0.45 | |
| Sixth | R6 | LKD | W18-L | 75.95 | 0.13 | |
| Sixth | R6 | LKD | W18-U | 70.1 | 1.51 | |
| Total | | | | | 4.98 | YES |
| Sixth | R7 | Bedroom | W19-L | 75.28 | 0.21 | |
| Sixth | R7 | Bedroom | W19-U | 70.04 | 2.58 | |
| Total | | | | | 2.79 | YES |
| Sixth | R8 | Bedroom | W20-L | 70.27 | 0.15 | |
| Sixth | R8 | Bedroom | W20-U | 65.1 | 1.78 | |
| Sixth | R8 | Bedroom | W21-L | 70.17 | 0.15 | |
| Sixth | R8 | Bedroom | W21-U | 65.03 | 1.77 | |
| Total | | | | | 3.85 | YES |
| Seventh | R1 | LKD | W1-L | 73.76 | 0.09 | |
| Seventh | R1 | LKD | W1-U | 69.68 | 1.05 | |
| Seventh | R1 | LKD | W2-L | 70.51 | 0.06 | |
| Seventh | R1 | LKD | W2-U | 66.45 | 0.71 | |
| Seventh | R1 | LKD | W3-L | N/A | 0.78 | |
| Seventh | R1 | LKD | W3-U | 0 | 1.42 | |
| Total | | | | | 4.10 | YES |
| Seventh | R2 | LKD | W4-L | N/A | 0.89 | |
| Seventh | R2 | LKD | W4-U | 0 | 1.74 | |
| Seventh | R2 | LKD | W5-L | 69.57 | 0.09 | |
| Seventh | R2 | LKD | W5-U | 67.54 | 1.09 | |
| Total | | | | | 3.80 | YES |
| Seventh | R3 | Bedroom | W6-L | 79.52 | 0.15 | |
| Seventh | R3 | Bedroom | W6-U | 81.17 | 2.01 | |
| Seventh | R3 | Bedroom | W7-L | 49.02 | 0.05 | |
| Seventh | R3 | Bedroom | W7-U | 48.8 | 0.68 | |
| Total | | | | | 2.89 | YES |
| Seventh | R4 | Bedroom | W8-L | 57.31 | 0.05 | |
| Seventh | R4 | Bedroom | W8-U | 56.49 | 0.61 | |
| Seventh | R4 | Bedroom | W9-L | 55.51 | 0.04 | |
| Seventh | R4 | Bedroom | W9-U | 55.7 | 0.47 | |
| Seventh | R4 | Bedroom | W10-L | 57.39 | 0.05 | |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Seventh | R4 | Bedroom | W10-U | 56.53 | 0.61 | |
| Seventh | R4 | Bedroom | W11-L | 55.61 | 0.04 | |
| Seventh | R4 | Bedroom | W11-U | 55.78 | 0.47 | |
| Seventh | R4 | Bedroom | W12-L | 57.47 | 0.05 | |
| Seventh | R4 | Bedroom | W12-U | 56.56 | 0.61 | |
| Total | | | | | 2.98 | YES |
| Seventh | R5 | LKD | W13-L | 75.42 | 0.13 | |
| Seventh | R5 | LKD | W13-U | 72.42 | 1.58 | |
| Seventh | R5 | LKD | W14-L | 66.55 | 0.04 | |
| Seventh | R5 | LKD | W14-U | 64.09 | 0.48 | |
| Seventh | R5 | LKD | W15-L | 51.43 | 0.29 | |
| Seventh | R5 | LKD | W15-U | 35 | 2.56 | |
| Total | | | | | 5.07 | YES |
| Seventh | R6 | LKD | W16-L | 51.45 | 0.29 | |
| Seventh | R6 | LKD | W16-U | 35 | 2.57 | |
| Seventh | R6 | LKD | W17-L | 64.12 | 0.04 | |
| Seventh | R6 | LKD | W17-U | 60.18 | 0.45 | |
| Seventh | R6 | LKD | W18-L | 76.12 | 0.13 | |
| Seventh | R6 | LKD | W18-U | 70.13 | 1.51 | |
| Total | | | | | 4.98 | YES |
| Seventh | R7 | Bedroom | W19-L | 76.02 | 0.22 | |
| Seventh | R7 | Bedroom | W19-U | 70.06 | 2.58 | |
| Total | | | | | 2.79 | YES |
| Seventh | R8 | Bedroom | W20-L | 70.57 | 0.15 | |
| Seventh | R8 | Bedroom | W20-U | 65.22 | 1.78 | |
| Seventh | R8 | Bedroom | W21-L | 70.53 | 0.15 | |
| Seventh | R8 | Bedroom | W21-U | 65.2 | 1.78 | |
| Total | | | | | 3.86 | YES |
| Eighth | R1 | Bedroom | W1-L | 84.98 | 0.59 | |
| Eighth | R1 | Bedroom | W1-U | 77.53 | 6.95 | |
| Total | | | | | 7.54 | YES |
| Eighth | R2 | LKD | W2-L | 78.45 | 0.13 | |
| Eighth | R2 | LKD | W2-U | 73.42 | 1.60 | |
| Eighth | R2 | LKD | W3-L | 68.11 | 0.04 | |
| Eighth | R2 | LKD | W3-U | 64.46 | 0.48 | |
| Eighth | R2 | LKD | W4-L | 51.49 | 0.29 | |
| Eighth | R2 | LKD | W4-U | 35 | 2.56 | |
| Total | | | | | 5.10 | YES |
| Eighth | R3 | LKD | W5-L | 51.45 | 0.29 | |
| Eighth | R3 | LKD | W5-U | 35 | 2.55 | |
| Eighth | R3 | LKD | W6-L | 76.73 | 0.23 | |
| Eighth | R3 | LKD | W6-U | 71.39 | 2.72 | |
| Total | | | | | 5.79 | YES |
| Eighth | R4 | Bedroom | W7-L | 3.7 | 0.03 | |
| Eighth | R4 | Bedroom | W7-U | 3.08 | 0.28 | |
| Total | | | | | 0.30 | NO |
| Ninth | R1 | Bedroom | W1-L | 85.08 | 0.59 | |
| Ninth | R1 | Bedroom | W1-U | 77.58 | 6.95 | |
| Total | | | | | 7.54 | YES |
| Ninth | R2 | LKD | W2-L | 78.52 | 0.13 | |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Ninth | R2 | LKD | W2-U | 73.45 | 1.60 | |
| Ninth | R2 | LKD | W3-L | 68.17 | 0.04 | |
| Ninth | R2 | LKD | W3-U | 64.49 | 0.48 | |
| Ninth | R2 | LKD | W4-L | 51.49 | 0.29 | |
| Ninth | R2 | LKD | W4-U | 35 | 2.56 | |
| Total | | | | | 5.10 | YES |
| Ninth | R3 | LKD | W5-L | 51.44 | 0.29 | |
| Ninth | R3 | LKD | W5-U | 34.99 | 2.55 | |
| Ninth | R3 | LKD | W6-L | 76.76 | 0.23 | |
| Ninth | R3 | LKD | W6-U | 71.4 | 2.72 | |
| Total | | | | | 5.79 | YES |
| Ninth | R4 | Bedroom | W7-L | 16.98 | 0.12 | |
| Ninth | R4 | Bedroom | W7-U | 13.63 | 1.22 | |
| Total | | | | | 1.34 | YES |
| Tenth | R1 | Bedroom | W1-L | 85.11 | 0.59 | |
| Tenth | R1 | Bedroom | W1-U | 77.61 | 6.96 | |
| Total | | | | | 7.55 | YES |
| Tenth | R2 | LKD | W2-L | 78.54 | 0.13 | |
| Tenth | R2 | LKD | W2-U | 73.48 | 1.60 | |
| Tenth | R2 | LKD | W3-L | 68.18 | 0.04 | |
| Tenth | R2 | LKD | W3-U | 64.51 | 0.48 | |
| Tenth | R2 | LKD | W4-L | 51.49 | 0.29 | |
| Tenth | R2 | LKD | W4-U | 35 | 2.56 | |
| Total | | | | | 5.10 | YES |
| Tenth | R3 | LKD | W5-L | 51.44 | 0.29 | |
| Tenth | R3 | LKD | W5-U | 34.98 | 2.55 | |
| Tenth | R3 | LKD | W6-L | 76.76 | 0.23 | |
| Tenth | R3 | LKD | W6-U | 71.39 | 2.72 | |
| Total | | | | | 5.79 | YES |
| Tenth | R4 | Bedroom | W7-L | 16.98 | 0.12 | |
| Tenth | R4 | Bedroom | W7-U | 13.63 | 1.22 | |
| Total | | | | | 1.34 | YES |
| Eleventh | R1 | Bedroom | W1-L | 85.12 | 0.59 | |
| Eleventh | R1 | Bedroom | W1-U | 77.63 | 6.96 | |
| Total | | | | | 7.55 | YES |
| Eleventh | R2 | LKD | W2-L | 78.55 | 0.13 | |
| Eleventh | R2 | LKD | W2-U | 73.5 | 1.60 | |
| Eleventh | R2 | LKD | W3-L | 68.19 | 0.04 | |
| Eleventh | R2 | LKD | W3-U | 64.52 | 0.48 | |
| Eleventh | R2 | LKD | W4-L | 51.49 | 0.29 | |
| Eleventh | R2 | LKD | W4-U | 35 | 2.56 | |
| Total | | | | | 5.10 | YES |
| Eleventh | R3 | LKD | W5-L | 51.43 | 0.29 | |
| Eleventh | R3 | LKD | W5-U | 34.98 | 2.55 | |
| Eleventh | R3 | LKD | W6-L | 76.76 | 0.23 | |
| Eleventh | R3 | LKD | W6-U | 71.38 | 2.72 | |
| Total | | | | | 5.78 | YES |
| Eleventh | R4 | Bedroom | W7-L | 16.98 | 0.12 | |
| Eleventh | R4 | Bedroom | W7-U | 13.63 | 1.22 | |
| Total | | | | | 1.34 | YES |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Twelfth | R1 | LKD | W1-L | 51.21 | 0.04 | |
| Twelfth | R1 | LKD | W1-U | 51.26 | 0.47 | |
| Twelfth | R1 | LKD | W2-L | 59.14 | 0.04 | |
| Twelfth | R1 | LKD | W2-U | 58.96 | 0.58 | |
| Twelfth | R1 | LKD | W3-L | 60.73 | 0.05 | |
| Twelfth | R1 | LKD | W3-U | 60.4 | 0.59 | |
| Twelfth | R1 | LKD | W4-L | 61.37 | 0.05 | |
| Twelfth | R1 | LKD | W4-U | 60.84 | 0.60 | |
| Twelfth | R1 | LKD | W5-L | 62.94 | 0.06 | |
| Twelfth | R1 | LKD | W5-U | 62.36 | 0.79 | |
| Twelfth | R1 | LKD | W6-L | 64.65 | 0.12 | |
| Twelfth | R1 | LKD | W6-U | 64.28 | 1.58 | |
| Twelfth | R1 | LKD | W7-L | 62.91 | 0.06 | |
| Twelfth | R1 | LKD | W7-U | 62.32 | 0.79 | |
| Twelfth | R1 | LKD | W8-L | 61.32 | 0.05 | |
| Twelfth | R1 | LKD | W8-U | 60.69 | 0.59 | |
| Twelfth | R1 | LKD | W9-L | 60.69 | 0.05 | |
| Twelfth | R1 | LKD | W9-U | 60.27 | 0.59 | |
| Twelfth | R1 | LKD | W10-L | 59.11 | 0.04 | |
| Twelfth | R1 | LKD | W10-U | 58.95 | 0.58 | |
| Twelfth | R1 | LKD | W11-L | 51.21 | 0.04 | |
| Twelfth | R1 | LKD | W11-U | 51.12 | 0.47 | |
| | | | | Total | 8.23 | YES |
| Proposed Block 2 | | | | | | |
| First | R1 | LKD | W1-L | 46.13 | 0.16 | |
| First | R1 | LKD | W1-U | 26.02 | 1.20 | |
| First | R1 | LKD | W20-L | 64.66 | 0.12 | |
| First | R1 | LKD | W20-U | 61.87 | 1.44 | |
| First | R1 | LKD | W21-L | 65.13 | 0.12 | |
| First | R1 | LKD | W21-U | 62.15 | 1.44 | |
| | | | | Total | 4.48 | YES |
| First | R2 | Bedroom | W2-L | 55.65 | 0.14 | |
| First | R2 | Bedroom | W2-U | 51.78 | 1.70 | |
| | | | | Total | 1.84 | YES |
| First | R3 | Bedroom | W3-L | 56.56 | 0.14 | |
| First | R3 | Bedroom | W3-U | 53.19 | 1.72 | |
| | | | | Total | 1.86 | YES |
| First | R4 | LKD | W4-L | 48.4 | 0.19 | |
| First | R4 | LKD | W4-U | 28.49 | 1.46 | |
| | | | | Total | 1.65 | NO |
| First | R5 | Bedroom | W5-L | 57.04 | 0.15 | |
| First | R5 | Bedroom | W5-U | 53.45 | 1.80 | |
| | | | | Total | 1.95 | YES |
| First | R6 | Bedroom | W6-L | 56.93 | 0.15 | |
| First | R6 | Bedroom | W6-U | 53.22 | 1.86 | |
| | | | | Total | 2.02 | YES |
| First | R7 | LKD | W7-L | 46.01 | 0.15 | |
| First | R7 | LKD | W7-U | 29.01 | 1.24 | |
| First | R7 | LKD | W8-L | 25.37 | 0.04 | |
| First | R7 | LKD | W8-U | 17.93 | 0.39 | |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| First | R7 | LKD | W9-L | 25.86 | 0.04 | |
| First | R7 | LKD | W9-U | 18.6 | 0.40 | |
| Total | | | | | 2.26 | YES |
| First | R8 | LKD | W10-L | 27.42 | 0.05 | |
| First | R8 | LKD | W10-U | 20.63 | 0.48 | |
| First | R8 | LKD | W11-L | 33.33 | 0.12 | |
| First | R8 | LKD | W11-U | 15.04 | 0.70 | |
| Total | | | | | 1.35 | NO |
| First | R9 | Bedroom | W12-L | 41 | 0.11 | |
| First | R9 | Bedroom | W12-U | 37.01 | 1.27 | |
| Total | | | | | 1.38 | YES |
| First | R10 | Bedroom | W13-L | 40.11 | 0.10 | |
| First | R10 | Bedroom | W13-U | 35.93 | 1.18 | |
| Total | | | | | 1.28 | YES |
| First | R11 | LKD | W14-L | 42.4 | 0.13 | |
| First | R11 | LKD | W14-U | 38.21 | 1.48 | |
| First | R11 | LKD | W15-L | 22.64 | 0.03 | |
| First | R11 | LKD | W15-U | 12.86 | 0.21 | |
| Total | | | | | 1.85 | NO |
| First | R12 | Bedroom | W16-L | 23.66 | 0.06 | |
| First | R12 | Bedroom | W16-U | 26.43 | 0.88 | |
| Total | | | | | 0.94 | NO |
| First | R13 | LKD | W17-L | 23.98 | 0.09 | |
| First | R13 | LKD | W17-U | 8.01 | 0.37 | |
| First | R13 | LKD | W18-L | 65.03 | 0.12 | |
| First | R13 | LKD | W18-U | 61.84 | 1.44 | |
| First | R13 | LKD | W19-L | 64.88 | 0.12 | |
| First | R13 | LKD | W19-U | 61.81 | 1.43 | |
| Total | | | | | 3.56 | YES |
| Second | R1 | LKD | W1-L | 50.19 | 0.18 | |
| Second | R1 | LKD | W1-U | 27.78 | 1.29 | |
| Second | R1 | LKD | W20-L | 70.83 | 0.13 | |
| Second | R1 | LKD | W20-U | 66.77 | 1.55 | |
| Second | R1 | LKD | W21-L | 70.95 | 0.13 | |
| Second | R1 | LKD | W21-U | 66.82 | 1.55 | |
| Total | | | | | 4.82 | YES |
| Second | R2 | Bedroom | W2-L | 58.94 | 0.15 | |
| Second | R2 | Bedroom | W2-U | 55.17 | 1.81 | |
| Total | | | | | 1.96 | YES |
| Second | R3 | Bedroom | W3-L | 59.77 | 0.15 | |
| Second | R3 | Bedroom | W3-U | 56.26 | 1.82 | |
| Total | | | | | 1.97 | YES |
| Second | R4 | LKD | W4-L | 52.06 | 0.21 | |
| Second | R4 | LKD | W4-U | 30.18 | 1.54 | |
| Total | | | | | 1.75 | NO |
| Second | R5 | Bedroom | W5-L | 60.35 | 0.16 | |
| Second | R5 | Bedroom | W5-U | 56.43 | 1.90 | |
| Total | | | | | 2.06 | YES |
| Second | R6 | Bedroom | W6-L | 59.81 | 0.16 | |
| Second | R6 | Bedroom | W6-U | 56.25 | 1.97 | |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Total | | | | | 2.13 | YES |
| Second | R7 | LKD | W7-L | 49.06 | 0.16 | |
| Second | R7 | LKD | W7-U | 31.3 | 1.34 | |
| Second | R7 | LKD | W8-L | 29.95 | 0.05 | |
| Second | R7 | LKD | W8-U | 24.24 | 0.52 | |
| Second | R7 | LKD | W9-L | 30.41 | 0.05 | |
| Second | R7 | LKD | W9-U | 24.83 | 0.53 | |
| Total | | | | | 2.65 | YES |
| Second | R8 | LKD | W10-L | 31.88 | 0.06 | |
| Second | R8 | LKD | W10-U | 26.61 | 0.62 | |
| Second | R8 | LKD | W11-L | 37.52 | 0.13 | |
| Second | R8 | LKD | W11-U | 17.29 | 0.80 | |
| Total | | | | | 1.62 | NO |
| Second | R9 | Bedroom | W12-L | 44.91 | 0.12 | |
| Second | R9 | Bedroom | W12-U | 41.41 | 1.42 | |
| Total | | | | | 1.54 | YES |
| Second | R10 | Bedroom | W13-L | 44.31 | 0.11 | |
| Second | R10 | Bedroom | W13-U | 40.55 | 1.33 | |
| Total | | | | | 1.44 | YES |
| Second | R11 | LKD | W14-L | 47.15 | 0.14 | |
| Second | R11 | LKD | W14-U | 43.4 | 1.68 | |
| Second | R11 | LKD | W15-L | 24.71 | 0.03 | |
| Second | R11 | LKD | W15-U | 16.07 | 0.27 | |
| Total | | | | | 2.12 | YES |
| Second | R12 | Bedroom | W16-L | 27.72 | 0.07 | |
| Second | R12 | Bedroom | W16-U | 27.04 | 0.90 | |
| Total | | | | | 0.98 | NO |
| Second | R13 | LKD | W17-L | 28.77 | 0.10 | |
| Second | R13 | LKD | W17-U | 10.64 | 0.49 | |
| Second | R13 | LKD | W18-L | 70.34 | 0.13 | |
| Second | R13 | LKD | W18-U | 66.06 | 1.53 | |
| Second | R13 | LKD | W19-L | 70.46 | 0.13 | |
| Second | R13 | LKD | W19-U | 66.22 | 1.54 | |
| Total | | | | | 3.92 | YES |
| Third | R1 | LKD | W1-L | 54.25 | 0.19 | |
| Third | R1 | LKD | W1-U | 32.94 | 1.52 | |
| Third | R1 | LKD | W20-L | 73.98 | 0.13 | |
| Third | R1 | LKD | W20-U | 68.84 | 1.60 | |
| Third | R1 | LKD | W21-L | 74.03 | 0.13 | |
| Third | R1 | LKD | W21-U | 68.89 | 1.60 | |
| Total | | | | | 5.18 | YES |
| Third | R2 | Bedroom | W2-L | 62.41 | 0.16 | |
| Third | R2 | Bedroom | W2-U | 58.66 | 1.92 | |
| Total | | | | | 2.08 | YES |
| Third | R3 | Bedroom | W3-L | 63.11 | 0.16 | |
| Third | R3 | Bedroom | W3-U | 59.37 | 1.92 | |
| Total | | | | | 2.08 | YES |
| Third | R4 | LKD | W4-L | 55.56 | 0.22 | |
| Third | R4 | LKD | W4-U | 33.33 | 1.70 | |
| Total | | | | | 1.92 | NO |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Third | R5 | Bedroom | W5-L | 63.45 | 0.17 | |
| Third | R5 | Bedroom | W5-U | 59.46 | 2.00 | |
| Total | | | | | 2.17 | YES |
| Third | R6 | Bedroom | W6-L | 62.68 | 0.17 | |
| Third | R6 | Bedroom | W6-U | 59.22 | 2.07 | |
| Total | | | | | 2.24 | YES |
| Third | R7 | LKD | W7-L | 52.39 | 0.17 | |
| Third | R7 | LKD | W7-U | 33.71 | 1.44 | |
| Third | R7 | LKD | W8-L | 35.31 | 0.06 | |
| Third | R7 | LKD | W8-U | 31.17 | 0.67 | |
| Third | R7 | LKD | W9-L | 35.79 | 0.06 | |
| Third | R7 | LKD | W9-U | 31.72 | 0.68 | |
| Total | | | | | 3.08 | YES |
| Third | R8 | LKD | W10-L | 37.3 | 0.07 | |
| Third | R8 | LKD | W10-U | 33.39 | 0.78 | |
| Third | R8 | LKD | W11-L | 42.46 | 0.15 | |
| Third | R8 | LKD | W11-U | 21.46 | 1.00 | |
| Total | | | | | 2.00 | NO |
| Third | R9 | Bedroom | W12-L | 49.18 | 0.13 | |
| Third | R9 | Bedroom | W12-U | 46.06 | 1.58 | |
| Total | | | | | 1.71 | YES |
| Third | R10 | Bedroom | W13-L | 48.86 | 0.12 | |
| Third | R10 | Bedroom | W13-U | 45.46 | 1.49 | |
| Total | | | | | 1.61 | YES |
| Third | R11 | LKD | W14-L | 52.39 | 0.16 | |
| Third | R11 | LKD | W14-U | 49.01 | 1.90 | |
| Third | R11 | LKD | W15-L | 26.61 | 0.03 | |
| Third | R11 | LKD | W15-U | 18.74 | 0.31 | |
| Total | | | | | 2.40 | YES |
| Third | R12 | Bedroom | W16-L | 32.39 | 0.08 | |
| Third | R12 | Bedroom | W16-U | 29.17 | 0.98 | |
| Total | | | | | 1.06 | YES |
| Third | R13 | LKD | W17-L | 33.97 | 0.12 | |
| Third | R13 | LKD | W17-U | 15.74 | 0.73 | |
| Third | R13 | LKD | W18-L | 73.33 | 0.13 | |
| Third | R13 | LKD | W18-U | 68.39 | 1.59 | |
| Third | R13 | LKD | W19-L | 73.52 | 0.13 | |
| Third | R13 | LKD | W19-U | 68.52 | 1.59 | |
| Total | | | | | 4.29 | YES |
| Fourth | R1 | LKD | W1-L | 58.39 | 0.21 | |
| Fourth | R1 | LKD | W1-U | 37.85 | 1.75 | |
| Fourth | R1 | LKD | W20-L | 75.62 | 0.14 | |
| Fourth | R1 | LKD | W20-U | 70.09 | 1.63 | |
| Fourth | R1 | LKD | W21-L | 75.65 | 0.14 | |
| Fourth | R1 | LKD | W21-U | 70.1 | 1.63 | |
| Total | | | | | 5.49 | YES |
| Fourth | R2 | Bedroom | W2-L | 66.09 | 0.17 | |
| Fourth | R2 | Bedroom | W2-U | 62.26 | 2.04 | |
| Total | | | | | 2.21 | YES |
| Fourth | R3 | Bedroom | W3-L | 66.59 | 0.17 | |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Fourth | R3 | Bedroom | W3-U | 62.65 | 2.02 | |
| Total | | | | | 2.19 | YES |
| Fourth | R4 | LKD | W4-L | 59.08 | 0.23 | |
| Fourth | R4 | LKD | W4-U | 36.74 | 1.88 | |
| Total | | | | | 2.11 | YES |
| Fourth | R5 | Bedroom | W5-L | 66.58 | 0.17 | |
| Fourth | R5 | Bedroom | W5-U | 62.45 | 2.10 | |
| Total | | | | | 2.28 | YES |
| Fourth | R6 | Bedroom | W6-L | 65.77 | 0.18 | |
| Fourth | R6 | Bedroom | W6-U | 62.09 | 2.17 | |
| Total | | | | | 2.35 | YES |
| Fourth | R7 | LKD | W7-L | 55.86 | 0.18 | |
| Fourth | R7 | LKD | W7-U | 36.25 | 1.55 | |
| Fourth | R7 | LKD | W8-L | 41.88 | 0.07 | |
| Fourth | R7 | LKD | W8-U | 38.7 | 0.83 | |
| Fourth | R7 | LKD | W9-L | 42.31 | 0.07 | |
| Fourth | R7 | LKD | W9-U | 39.14 | 0.84 | |
| Total | | | | | 3.54 | YES |
| Fourth | R8 | LKD | W10-L | 43.63 | 0.08 | |
| Fourth | R8 | LKD | W10-U | 40.48 | 0.95 | |
| Fourth | R8 | LKD | W11-L | 47.58 | 0.17 | |
| Fourth | R8 | LKD | W11-U | 25.98 | 1.21 | |
| Total | | | | | 2.40 | YES |
| Fourth | R9 | Bedroom | W12-L | 53.87 | 0.14 | |
| Fourth | R9 | Bedroom | W12-U | 50.88 | 1.74 | |
| Total | | | | | 1.89 | YES |
| Fourth | R10 | Bedroom | W13-L | 53.75 | 0.14 | |
| Fourth | R10 | Bedroom | W13-U | 50.58 | 1.65 | |
| Total | | | | | 1.79 | YES |
| Fourth | R11 | LKD | W14-L | 58.15 | 0.17 | |
| Fourth | R11 | LKD | W14-U | 54.94 | 2.13 | |
| Fourth | R11 | LKD | W15-L | 28.23 | 0.04 | |
| Fourth | R11 | LKD | W15-U | 20.76 | 0.35 | |
| Total | | | | | 2.69 | YES |
| Fourth | R12 | Bedroom | W16-L | 37.08 | 0.10 | |
| Fourth | R12 | Bedroom | W16-U | 33.59 | 1.12 | |
| Total | | | | | 1.22 | YES |
| Fourth | R13 | LKD | W17-L | 39.04 | 0.14 | |
| Fourth | R13 | LKD | W17-U | 22.61 | 1.05 | |
| Fourth | R13 | LKD | W18-L | 75.4 | 0.14 | |
| Fourth | R13 | LKD | W18-U | 70.05 | 1.63 | |
| Fourth | R13 | LKD | W19-L | 75.46 | 0.14 | |
| Fourth | R13 | LKD | W19-U | 70.07 | 1.63 | |
| Total | | | | | 4.71 | YES |
| Fifth | R1 | LKD | W1-L | 62.59 | 0.22 | |
| Fifth | R1 | LKD | W1-U | 42.29 | 1.96 | |
| Fifth | R1 | LKD | W20-L | 76.59 | 0.14 | |
| Fifth | R1 | LKD | W20-U | 70.65 | 1.64 | |
| Fifth | R1 | LKD | W21-L | 76.58 | 0.14 | |
| Fifth | R1 | LKD | W21-U | 70.64 | 1.64 | |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Total | | | | | 5.74 | YES |
| Fifth | R2 | Bedroom | W2-L | 69.89 | 0.18 | |
| Fifth | R2 | Bedroom | W2-U | 65.81 | 2.15 | |
| Total | | | | | 2.33 | YES |
| Fifth | R3 | Bedroom | W3-L | 70.13 | 0.18 | |
| Fifth | R3 | Bedroom | W3-U | 65.89 | 2.13 | |
| Total | | | | | 2.30 | YES |
| Fifth | R4 | LKD | W4-L | 62.43 | 0.25 | |
| Fifth | R4 | LKD | W4-U | 40.26 | 2.06 | |
| Total | | | | | 2.30 | YES |
| Fifth | R5 | Bedroom | W5-L | 69.61 | 0.18 | |
| Fifth | R5 | Bedroom | W5-U | 65.21 | 2.20 | |
| Total | | | | | 2.38 | YES |
| Fifth | R6 | Bedroom | W6-L | 68.89 | 0.19 | |
| Fifth | R6 | Bedroom | W6-U | 64.65 | 2.26 | |
| Total | | | | | 2.45 | YES |
| Fifth | R7 | LKD | W7-L | 59.49 | 0.20 | |
| Fifth | R7 | LKD | W7-U | 39 | 1.66 | |
| Fifth | R7 | LKD | W8-L | 49.17 | 0.08 | |
| Fifth | R7 | LKD | W8-U | 46.86 | 1.01 | |
| Fifth | R7 | LKD | W9-L | 49.53 | 0.08 | |
| Fifth | R7 | LKD | W9-U | 47.19 | 1.02 | |
| Total | | | | | 4.05 | YES |
| Fifth | R8 | LKD | W10-L | 50.68 | 0.09 | |
| Fifth | R8 | LKD | W10-U | 48.25 | 1.13 | |
| Fifth | R8 | LKD | W11-L | 52.95 | 0.19 | |
| Fifth | R8 | LKD | W11-U | 30.93 | 1.44 | |
| Total | | | | | 2.85 | YES |
| Fifth | R9 | Bedroom | W12-L | 58.8 | 0.16 | |
| Fifth | R9 | Bedroom | W12-U | 55.59 | 1.90 | |
| Total | | | | | 2.06 | YES |
| Fifth | R10 | Bedroom | W13-L | 58.9 | 0.15 | |
| Fifth | R10 | Bedroom | W13-U | 55.73 | 1.82 | |
| Total | | | | | 1.97 | YES |
| Fifth | R11 | LKD | W14-L | 64.27 | 0.19 | |
| Fifth | R11 | LKD | W14-U | 60.89 | 2.36 | |
| Fifth | R11 | LKD | W15-L | 29.44 | 0.04 | |
| Fifth | R11 | LKD | W15-U | 21.75 | 0.36 | |
| Total | | | | | 2.96 | YES |
| Fifth | R12 | Bedroom | W16-L | 41.35 | 0.11 | |
| Fifth | R12 | Bedroom | W16-U | 37.28 | 1.25 | |
| Total | | | | | 1.35 | YES |
| Fifth | R13 | LKD | W17-L | 43.38 | 0.16 | |
| Fifth | R13 | LKD | W17-U | 27.1 | 1.25 | |
| Fifth | R13 | LKD | W18-L | 76.68 | 0.14 | |
| Fifth | R13 | LKD | W18-U | 70.73 | 1.64 | |
| Fifth | R13 | LKD | W19-L | 76.67 | 0.14 | |
| Fifth | R13 | LKD | W19-U | 70.72 | 1.64 | |
| Total | | | | | 4.97 | YES |
| Sixth | R1 | LKD | W1-L | 66.37 | 0.24 | |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Sixth | R1 | LKD | W1-U | 45.13 | 2.09 | |
| Sixth | R1 | LKD | W20-L | 76.84 | 0.14 | |
| Sixth | R1 | LKD | W20-U | 70.8 | 1.64 | |
| Sixth | R1 | LKD | W21-L | 76.83 | 0.14 | |
| Sixth | R1 | LKD | W21-U | 70.79 | 1.64 | |
| Total | | | | | 5.89 | YES |
| Sixth | R2 | Bedroom | W2-L | 73.28 | 0.19 | |
| Sixth | R2 | Bedroom | W2-U | 68.18 | 2.23 | |
| Total | | | | | 2.42 | YES |
| Sixth | R3 | Bedroom | W3-L | 73.18 | 0.18 | |
| Sixth | R3 | Bedroom | W3-U | 68.05 | 2.20 | |
| Total | | | | | 2.38 | YES |
| Sixth | R4 | LKD | W4-L | 65.24 | 0.26 | |
| Sixth | R4 | LKD | W4-U | 42.75 | 2.19 | |
| Total | | | | | 2.44 | YES |
| Sixth | R5 | Bedroom | W5-L | 72.51 | 0.19 | |
| Sixth | R5 | Bedroom | W5-U | 67.55 | 2.28 | |
| Total | | | | | 2.47 | YES |
| Sixth | R6 | Bedroom | W6-L | 71.96 | 0.19 | |
| Sixth | R6 | Bedroom | W6-U | 67.17 | 2.35 | |
| Total | | | | | 2.55 | YES |
| Sixth | R7 | LKD | W7-L | 63.12 | 0.21 | |
| Sixth | R7 | LKD | W7-U | 42.59 | 1.82 | |
| Sixth | R7 | LKD | W8-L | 57.65 | 0.10 | |
| Sixth | R7 | LKD | W8-U | 55.77 | 1.20 | |
| Sixth | R7 | LKD | W9-L | 57.91 | 0.10 | |
| Sixth | R7 | LKD | W9-U | 55.96 | 1.20 | |
| Total | | | | | 4.62 | YES |
| Sixth | R8 | LKD | W10-L | 58.77 | 0.11 | |
| Sixth | R8 | LKD | W10-U | 56.66 | 1.33 | |
| Sixth | R8 | LKD | W11-L | 58.36 | 0.21 | |
| Sixth | R8 | LKD | W11-U | 36.27 | 1.68 | |
| Total | | | | | 3.32 | YES |
| Sixth | R9 | Bedroom | W12-L | 63.89 | 0.17 | |
| Sixth | R9 | Bedroom | W12-U | 60.15 | 2.06 | |
| Total | | | | | 2.23 | YES |
| Sixth | R10 | Bedroom | W13-L | 64.05 | 0.16 | |
| Sixth | R10 | Bedroom | W13-U | 60.41 | 1.98 | |
| Total | | | | | 2.14 | YES |
| Sixth | R11 | LKD | W14-L | 70.2 | 0.21 | |
| Sixth | R11 | LKD | W14-U | 66.05 | 2.56 | |
| Sixth | R11 | LKD | W15-L | 29.65 | 0.04 | |
| Sixth | R11 | LKD | W15-U | 21.75 | 0.36 | |
| Total | | | | | 3.17 | YES |
| Sixth | R12 | Bedroom | W16-L | 43.94 | 0.11 | |
| Sixth | R12 | Bedroom | W16-U | 39.47 | 1.32 | |
| Total | | | | | 1.43 | YES |
| Sixth | R13 | LKD | W17-L | 45.87 | 0.16 | |
| Sixth | R13 | LKD | W17-U | 28.98 | 1.34 | |
| Sixth | R13 | LKD | W18-L | 76.91 | 0.14 | |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Sixth | R13 | LKD | W18-U | 70.85 | 1.64 | |
| Sixth | R13 | LKD | W19-L | 76.9 | 0.14 | |
| Sixth | R13 | LKD | W19-U | 70.84 | 1.64 | |
| Total | | | | | 5.07 | YES |
| Seventh | R1 | LKD | W1-L | 82.56 | 0.30 | |
| Seventh | R1 | LKD | W1-U | 74.8 | 3.46 | |
| Seventh | R1 | LKD | W20-L | 76.99 | 0.14 | |
| Seventh | R1 | LKD | W20-U | 70.94 | 1.65 | |
| Seventh | R1 | LKD | W21-L | 76.99 | 0.14 | |
| Seventh | R1 | LKD | W21-U | 70.93 | 1.65 | |
| Total | | | | | 7.33 | YES |
| Seventh | R2 | Bedroom | W2-L | 75.4 | 0.19 | |
| Seventh | R2 | Bedroom | W2-U | 69.82 | 2.29 | |
| Total | | | | | 2.48 | YES |
| Seventh | R3 | Bedroom | W3-L | 75.35 | 0.19 | |
| Seventh | R3 | Bedroom | W3-U | 69.8 | 2.25 | |
| Total | | | | | 2.44 | YES |
| Seventh | R4 | LKD | W4-L | 82.7 | 0.33 | |
| Seventh | R4 | LKD | W4-U | 74.86 | 3.83 | |
| Total | | | | | 4.15 | YES |
| Seventh | R5 | Bedroom | W5-L | 75.03 | 0.20 | |
| Seventh | R5 | Bedroom | W5-U | 69.65 | 2.35 | |
| Total | | | | | 2.54 | YES |
| Seventh | R6 | Bedroom | W6-L | 74.78 | 0.20 | |
| Seventh | R6 | Bedroom | W6-U | 69.51 | 2.43 | |
| Total | | | | | 2.64 | YES |
| Seventh | R7 | LKD | W7-L | 80.74 | 0.27 | |
| Seventh | R7 | LKD | W7-U | 73.9 | 3.15 | |
| Seventh | R7 | LKD | W8-L | 66.92 | 0.11 | |
| Seventh | R7 | LKD | W8-U | 64.74 | 1.39 | |
| Seventh | R7 | LKD | W9-L | 67.03 | 0.11 | |
| Seventh | R7 | LKD | W9-U | 64.79 | 1.39 | |
| Total | | | | | 6.43 | YES |
| Seventh | R8 | LKD | W10-L | 67.48 | 0.12 | |
| Seventh | R8 | LKD | W10-U | 65.02 | 1.52 | |
| Seventh | R8 | LKD | W11-L | 74.26 | 0.27 | |
| Seventh | R8 | LKD | W11-U | 68.66 | 3.19 | |
| Total | | | | | 5.10 | YES |
| Seventh | R9 | Bedroom | W12-L | 68.08 | 0.18 | |
| Seventh | R9 | Bedroom | W12-U | 63.84 | 2.19 | |
| Total | | | | | 2.37 | YES |
| Seventh | R10 | Bedroom | W13-L | 67.82 | 0.17 | |
| Seventh | R10 | Bedroom | W13-U | 63.51 | 2.08 | |
| Total | | | | | 2.25 | YES |
| Seventh | R11 | LKD | W14-L | 74.36 | 0.22 | |
| Seventh | R11 | LKD | W14-U | 69.33 | 2.69 | |
| Seventh | R11 | LKD | W15-L | 29.85 | 0.04 | |
| Seventh | R11 | LKD | W15-U | 24.08 | 0.40 | |
| Total | | | | | 3.35 | YES |
| Seventh | R12 | Bedroom | W16-L | 43.31 | 0.11 | |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Seventh | R12 | Bedroom | W16-U | 28.16 | 0.94 | |
| | | | | Total | 1.05 | YES |
| Seventh | R13 | LKD | W17-L | 49.12 | 0.18 | |
| Seventh | R13 | LKD | W17-U | 31.94 | 1.48 | |
| Seventh | R13 | LKD | W18-L | 77.03 | 0.14 | |
| Seventh | R13 | LKD | W18-U | 70.96 | 1.65 | |
| Seventh | R13 | LKD | W19-L | 77.03 | 0.14 | |
| Seventh | R13 | LKD | W19-U | 70.96 | 1.65 | |
| | | | | Total | 5.22 | YES |
| Eighth | R1 | LKD | W1-L | 77.04 | 0.09 | |
| Eighth | R1 | LKD | W1-U | 77.28 | 1.18 | |
| Eighth | R1 | LKD | W2-L | 77.05 | 0.09 | |
| Eighth | R1 | LKD | W2-U | 77.29 | 1.18 | |
| Eighth | R1 | LKD | W3-L | 77.05 | 0.09 | |
| Eighth | R1 | LKD | W3-U | 77.29 | 1.18 | |
| | | | | Total | 3.80 | YES |
| Eighth | R2 | Bedroom | W4-L | 77.05 | 0.13 | |
| Eighth | R2 | Bedroom | W4-U | 77.29 | 1.75 | |
| Eighth | R2 | Bedroom | W5-L | 77.05 | 0.14 | |
| Eighth | R2 | Bedroom | W5-U | 77.3 | 1.75 | |
| | | | | Total | 3.78 | YES |
| Eighth | R3 | Bedroom | W6-L | 77.06 | 0.14 | |
| Eighth | R3 | Bedroom | W6-U | 77.32 | 1.77 | |
| Eighth | R3 | Bedroom | W7-L | 77.05 | 0.14 | |
| Eighth | R3 | Bedroom | W7-U | 77.31 | 1.77 | |
| Eighth | R3 | Bedroom | W8-L | 77.04 | 0.14 | |
| Eighth | R3 | Bedroom | W8-U | 77.32 | 1.77 | |
| | | | | Total | 5.71 | YES |
| Eighth | R4 | LKD | W9-L | 75.72 | 0.09 | |
| Eighth | R4 | LKD | W9-U | 76.82 | 1.16 | |
| Eighth | R4 | LKD | W10-L | 75.72 | 0.09 | |
| Eighth | R4 | LKD | W10-U | 76.82 | 1.16 | |
| Eighth | R4 | LKD | W11-L | 75.71 | 0.09 | |
| Eighth | R4 | LKD | W11-U | 76.82 | 1.16 | |
| Eighth | R4 | LKD | W12-L | 75.24 | 0.11 | |
| Eighth | R4 | LKD | W12-U | 75.61 | 1.47 | |
| Eighth | R4 | LKD | W13-L | 75.05 | 0.11 | |
| Eighth | R4 | LKD | W13-U | 75.37 | 1.47 | |
| | | | | Total | 6.93 | YES |
| Eighth | R5 | LKD | W14-L | 73.71 | 0.09 | |
| Eighth | R5 | LKD | W14-U | 74.14 | 1.11 | |
| Eighth | R5 | LKD | W15-L | 73.53 | 0.09 | |
| Eighth | R5 | LKD | W15-U | 73.95 | 1.11 | |
| Eighth | R5 | LKD | W16-L | 73.4 | 0.09 | |
| Eighth | R5 | LKD | W16-U | 73.81 | 1.11 | |
| Eighth | R5 | LKD | W17-L | 73.23 | 0.09 | |
| Eighth | R5 | LKD | W17-U | 73.64 | 1.11 | |
| | | | | Total | 4.78 | YES |
| Eighth | R6 | Bedroom | W18-L | 73.11 | 0.17 | |
| Eighth | R6 | Bedroom | W18-U | 73.52 | 2.18 | |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Clear Sky | Proposed ADF | Meets BRE Criteria |
|------------|-----------|-----------|-------------|--------------------|--------------|--------------------|
| Eighth | R6 | Bedroom | W19-L | 73.03 | 0.17 | |
| Eighth | R6 | Bedroom | W19-U | 73.44 | 2.17 | |
| Total | | | | | 4.69 | YES |

| Floor Ref | Room Ref | Room Use | Room Area (m ²) | No Sky Line (m ²) | % of Room Area | BRE Compliant |
|------------------|----------|----------|-----------------------------|-------------------------------|----------------|---------------|
| Proposed Block 1 | | | | | | |
| First | R1 | Bedroom | 10.06 | 7.14 | 71.02% | NO |
| First | R2 | Bedroom | 12.02 | 6.91 | 57.50% | NO |
| First | R3 | LKD | 24.39 | 9.31 | 38.18% | NO |
| First | R4 | Bedroom | 9.3 | 6.24 | 67.08% | NO |
| First | R5 | Bedroom | 12.17 | 7.11 | 58.43% | NO |
| First | R6 | LKD | 25.93 | 18 | 69.42% | NO |
| First | R7 | LKD | 24.04 | 21.08 | 87.72% | YES |
| First | R8 | Bedroom | 12.68 | 6.8 | 53.66% | NO |
| First | R9 | Bedroom | 12.22 | 8.87 | 72.56% | NO |
| First | R10 | LKD | 24.68 | 24.68 | 100.00% | YES |
| First | R11 | LKD | 24.68 | 24.68 | 100.00% | YES |
| First | R12 | Bedroom | 11.59 | 10.68 | 92.20% | YES |
| First | R13 | Bedroom | 11.17 | 10.23 | 91.60% | YES |
| First | R14 | LKD | 22.68 | 22.68 | 99.99% | YES |
| First | R15 | Bedroom | 10.25 | 10 | 97.64% | YES |
| First | R16 | Bedroom | 10.62 | 10.12 | 95.27% | YES |
| First | R17 | LKD | 22.81 | 22.81 | 99.99% | YES |
| Second | R1 | Bedroom | 10.59 | 8.53 | 80.58% | YES |
| Second | R2 | Bedroom | 11.49 | 9.07 | 78.94% | NO |
| Second | R3 | LKD | 26.64 | 17.39 | 65.27% | NO |
| Second | R4 | Bedroom | 12.68 | 7.1 | 56.00% | NO |
| Second | R5 | LKD | 20.04 | 9.84 | 49.09% | NO |
| Second | R6 | Bedroom | 9.3 | 6.53 | 70.21% | NO |
| Second | R7 | Bedroom | 12.17 | 7.52 | 61.78% | NO |
| Second | R8 | LKD | 25.93 | 19.04 | 73.41% | NO |
| Second | R9 | LKD | 23.25 | 21.07 | 90.61% | YES |
| Second | R10 | Bedroom | 12.68 | 7.17 | 56.52% | NO |
| Second | R11 | Bedroom | 12.22 | 9.3 | 76.08% | NO |
| Second | R12 | LKD | 24.48 | 24.36 | 99.54% | YES |
| Second | R13 | LKD | 24.49 | 24.49 | 100.00% | YES |
| Second | R14 | Bedroom | 11.59 | 10.71 | 92.46% | YES |
| Second | R15 | Bedroom | 11.17 | 10.24 | 91.66% | YES |
| Second | R16 | LKD | 22.68 | 22.68 | 99.99% | YES |
| Second | R17 | Bedroom | 10.25 | 9.72 | 94.85% | YES |
| Second | R18 | Bedroom | 10.62 | 10.05 | 94.61% | YES |
| Second | R19 | LKD | 22.81 | 22.81 | 100.00% | YES |
| Second | R20 | LKD | 20.89 | 20.85 | 99.81% | YES |
| Second | R21 | Bedroom | 12.77 | 12.22 | 95.73% | YES |
| Third | R1 | Bedroom | 10.59 | 8.88 | 83.90% | YES |
| Third | R2 | Bedroom | 11.49 | 9.19 | 80.01% | YES |
| Third | R3 | LKD | 26.64 | 18.71 | 70.26% | NO |
| Third | R4 | Bedroom | 12.68 | 7.62 | 60.05% | NO |
| Third | R5 | LKD | 20.04 | 11.52 | 57.47% | NO |
| Third | R6 | Bedroom | 9.3 | 7.15 | 76.93% | NO |
| Third | R7 | Bedroom | 12.17 | 8.31 | 68.31% | NO |
| Third | R8 | LKD | 25.93 | 21.55 | 83.09% | YES |
| Third | R9 | LKD | 23.25 | 22.06 | 94.88% | YES |
| Third | R10 | Bedroom | 12.68 | 7.94 | 62.62% | NO |
| Third | R11 | Bedroom | 12.22 | 9.95 | 81.41% | YES |

| Floor Ref | Room Ref | Room Use | Room Area (m ²) | No Sky Line (m ²) | % of Room Area | BRE Compliant |
|-----------|----------|----------|-----------------------------|-------------------------------|----------------|---------------|
| Third | R12 | LKD | 24.48 | 24.41 | 99.72% | YES |
| Third | R13 | LKD | 24.48 | 24.48 | 100.00% | YES |
| Third | R14 | Bedroom | 11.59 | 10.73 | 92.64% | YES |
| Third | R15 | Bedroom | 11.17 | 10.23 | 91.64% | YES |
| Third | R16 | LKD | 22.68 | 22.68 | 99.99% | YES |
| Third | R17 | Bedroom | 10.25 | 9.72 | 94.84% | YES |
| Third | R18 | Bedroom | 10.62 | 10.05 | 94.69% | YES |
| Third | R19 | LKD | 22.81 | 22.81 | 100.00% | YES |
| Third | R20 | LKD | 20.89 | 20.84 | 99.79% | YES |
| Third | R21 | Bedroom | 12.77 | 12.24 | 95.84% | YES |
| Fourth | R1 | Bedroom | 10.59 | 9.43 | 89.06% | YES |
| Fourth | R2 | Bedroom | 11.49 | 9.49 | 82.62% | YES |
| Fourth | R3 | LKD | 26.64 | 19.08 | 71.62% | NO |
| Fourth | R4 | Bedroom | 12.68 | 8.72 | 68.74% | NO |
| Fourth | R5 | LKD | 20.04 | 12.73 | 63.53% | NO |
| Fourth | R6 | Bedroom | 9.3 | 8.18 | 88.00% | YES |
| Fourth | R7 | Bedroom | 12.17 | 9.91 | 81.43% | YES |
| Fourth | R8 | LKD | 25.93 | 23.64 | 91.55% | YES |
| Fourth | R9 | LKD | 23.25 | 22.43 | 96.44% | YES |
| Fourth | R10 | Bedroom | 12.68 | 9.2 | 72.57% | NO |
| Fourth | R11 | Bedroom | 12.22 | 11.67 | 95.44% | YES |
| Fourth | R12 | LKD | 24.48 | 24.44 | 99.85% | YES |
| Fourth | R13 | LKD | 24.48 | 24.48 | 100.00% | YES |
| Fourth | R14 | Bedroom | 11.59 | 10.78 | 93.06% | YES |
| Fourth | R15 | Bedroom | 11.17 | 10.23 | 91.59% | YES |
| Fourth | R16 | LKD | 22.68 | 22.68 | 99.99% | YES |
| Fourth | R17 | Bedroom | 10.25 | 9.72 | 94.82% | YES |
| Fourth | R18 | Bedroom | 10.62 | 10.06 | 94.77% | YES |
| Fourth | R19 | LKD | 22.81 | 22.81 | 100.00% | YES |
| Fourth | R20 | LKD | 20.89 | 20.85 | 99.80% | YES |
| Fourth | R21 | Bedroom | 12.77 | 12.24 | 95.90% | YES |
| Fifth | R1 | Bedroom | 10.15 | 10.15 | 100.00% | YES |
| Fifth | R2 | Bedroom | 11.99 | 11.61 | 96.85% | YES |
| Fifth | R3 | LKD | 24.91 | 20.62 | 82.77% | YES |
| Fifth | R4 | Bedroom | 9.3 | 8.98 | 96.63% | YES |
| Fifth | R5 | Bedroom | 12.17 | 11.17 | 91.81% | YES |
| Fifth | R6 | LKD | 25.93 | 25.26 | 97.42% | YES |
| Fifth | R7 | LKD | 23.25 | 22.64 | 97.35% | YES |
| Fifth | R8 | Bedroom | 12.68 | 11.5 | 90.67% | YES |
| Fifth | R9 | Bedroom | 12.22 | 12.14 | 99.30% | YES |
| Fifth | R10 | LKD | 24.48 | 24.46 | 99.92% | YES |
| Fifth | R11 | LKD | 24.49 | 24.49 | 100.00% | YES |
| Fifth | R12 | Bedroom | 11.59 | 10.84 | 93.56% | YES |
| Fifth | R13 | Bedroom | 11.17 | 10.23 | 91.61% | YES |
| Fifth | R14 | LKD | 22.68 | 22.61 | 99.70% | YES |
| Fifth | R15 | Bedroom | 10.25 | 10.24 | 99.91% | YES |
| Fifth | R16 | Bedroom | 10.62 | 10.61 | 99.94% | YES |
| Fifth | R17 | LKD | 23.17 | 23.17 | 100.00% | YES |
| Sixth | R1 | LKD | 25.36 | 25.36 | 100.00% | YES |
| Sixth | R2 | LKD | 23.25 | 23.22 | 99.85% | YES |

| Floor Ref | Room Ref | Room Use | Room Area (m ²) | No Sky Line (m ²) | % of Room Area | BRE Compliant |
|------------------|----------|----------|-----------------------------|-------------------------------|----------------|---------------|
| Sixth | R3 | Bedroom | 12.68 | 12.58 | 99.21% | YES |
| Sixth | R4 | Bedroom | 12.22 | 12.14 | 99.30% | YES |
| Sixth | R5 | LKD | 24.43 | 24.43 | 100.00% | YES |
| Sixth | R6 | LKD | 24.44 | 24.44 | 100.00% | YES |
| Sixth | R7 | Bedroom | 11.59 | 10.83 | 93.42% | YES |
| Sixth | R8 | Bedroom | 10.89 | 10.68 | 98.12% | YES |
| Seventh | R1 | LKD | 25.36 | 25.36 | 100.00% | YES |
| Seventh | R2 | LKD | 23.25 | 23.25 | 100.00% | YES |
| Seventh | R3 | Bedroom | 12.68 | 12.58 | 99.21% | YES |
| Seventh | R4 | Bedroom | 12.22 | 12.14 | 99.30% | YES |
| Seventh | R5 | LKD | 24.43 | 24.43 | 100.00% | YES |
| Seventh | R6 | LKD | 24.44 | 24.44 | 100.00% | YES |
| Seventh | R7 | Bedroom | 11.59 | 10.82 | 93.36% | YES |
| Seventh | R8 | Bedroom | 10.89 | 10.68 | 98.06% | YES |
| Eighth | R1 | Bedroom | 11.59 | 11.59 | 99.95% | YES |
| Eighth | R2 | LKD | 24.43 | 24.43 | 100.00% | YES |
| Eighth | R3 | LKD | 24.66 | 24.66 | 100.00% | YES |
| Eighth | R4 | Bedroom | 11.59 | 11.57 | 99.84% | YES |
| Ninth | R1 | Bedroom | 11.59 | 11.58 | 99.93% | YES |
| Ninth | R2 | LKD | 24.43 | 24.43 | 100.00% | YES |
| Ninth | R3 | LKD | 24.66 | 24.66 | 100.00% | YES |
| Ninth | R4 | Bedroom | 11.59 | 11.57 | 99.84% | YES |
| Tenth | R1 | Bedroom | 11.59 | 11.59 | 99.95% | YES |
| Tenth | R2 | LKD | 24.43 | 24.43 | 100.00% | YES |
| Tenth | R3 | LKD | 24.66 | 24.66 | 100.00% | YES |
| Tenth | R4 | Bedroom | 11.59 | 11.57 | 99.84% | YES |
| Eleventh | R1 | Bedroom | 11.59 | 11.59 | 99.95% | YES |
| Eleventh | R2 | LKD | 24.43 | 24.43 | 100.00% | YES |
| Eleventh | R3 | LKD | 24.66 | 24.66 | 100.00% | YES |
| Eleventh | R4 | Bedroom | 11.59 | 11.58 | 99.89% | YES |
| Twelfth | R1 | LKD | 75.18 | 75.18 | 100.00% | YES |
| Proposed Block 2 | | | | | | |
| First | R1 | LKD | 19.65 | 19.62 | 99.88% | YES |
| First | R2 | Bedroom | 12.27 | 11.6 | 94.53% | YES |
| First | R3 | Bedroom | 12.54 | 10.92 | 87.07% | YES |
| First | R4 | LKD | 21.17 | 21.01 | 99.24% | YES |
| First | R5 | Bedroom | 11.78 | 10.41 | 88.37% | YES |
| First | R6 | Bedroom | 11.17 | 10.69 | 95.71% | YES |
| First | R7 | LKD | 22.03 | 21.93 | 99.56% | YES |
| First | R8 | LKD | 19.68 | 17.5 | 88.91% | YES |
| First | R9 | Bedroom | 11.41 | 8.36 | 73.26% | NO |
| First | R10 | Bedroom | 12.15 | 7.96 | 65.54% | NO |
| First | R11 | LKD | 24.22 | 10.17 | 41.99% | NO |
| First | R12 | Bedroom | 11.93 | 6.09 | 51.06% | NO |
| First | R13 | LKD | 19.65 | 19.07 | 97.04% | YES |
| Second | R1 | LKD | 19.65 | 19.63 | 99.91% | YES |
| Second | R2 | Bedroom | 12.27 | 11.69 | 95.26% | YES |
| Second | R3 | Bedroom | 12.54 | 11.41 | 90.94% | YES |
| Second | R4 | LKD | 21.17 | 21.02 | 99.32% | YES |
| Second | R5 | Bedroom | 11.78 | 10.78 | 91.52% | YES |

| Floor Ref | Room Ref | Room Use | Room Area (m ²) | No Sky Line (m ²) | % of Room Area | BRE Compliant |
|-----------|----------|----------|-----------------------------|-------------------------------|----------------|---------------|
| Second | R6 | Bedroom | 11.17 | 10.73 | 96.08% | YES |
| Second | R7 | LKD | 22.03 | 21.95 | 99.62% | YES |
| Second | R8 | LKD | 19.68 | 18.37 | 93.33% | YES |
| Second | R9 | Bedroom | 11.41 | 9.76 | 85.53% | YES |
| Second | R10 | Bedroom | 12.15 | 9.37 | 77.10% | NO |
| Second | R11 | LKD | 24.22 | 11.6 | 47.89% | NO |
| Second | R12 | Bedroom | 11.93 | 8.77 | 73.54% | NO |
| Second | R13 | LKD | 19.65 | 19.04 | 96.88% | YES |
| Third | R1 | LKD | 19.65 | 19.63 | 99.93% | YES |
| Third | R2 | Bedroom | 12.27 | 11.81 | 96.18% | YES |
| Third | R3 | Bedroom | 12.54 | 11.99 | 95.60% | YES |
| Third | R4 | LKD | 21.17 | 21.05 | 99.44% | YES |
| Third | R5 | Bedroom | 11.78 | 11.1 | 94.27% | YES |
| Third | R6 | Bedroom | 11.17 | 10.76 | 96.34% | YES |
| Third | R7 | LKD | 22.03 | 21.96 | 99.69% | YES |
| Third | R8 | LKD | 19.68 | 18.76 | 95.35% | YES |
| Third | R9 | Bedroom | 11.41 | 10.71 | 93.86% | YES |
| Third | R10 | Bedroom | 12.15 | 10.94 | 90.06% | YES |
| Third | R11 | LKD | 24.22 | 13.95 | 57.58% | NO |
| Third | R12 | Bedroom | 11.93 | 11.09 | 92.94% | YES |
| Third | R13 | LKD | 19.65 | 19.04 | 96.89% | YES |
| Fourth | R1 | LKD | 19.65 | 19.63 | 99.94% | YES |
| Fourth | R2 | Bedroom | 12.27 | 11.85 | 96.55% | YES |
| Fourth | R3 | Bedroom | 12.54 | 12.02 | 95.85% | YES |
| Fourth | R4 | LKD | 21.17 | 21.09 | 99.65% | YES |
| Fourth | R5 | Bedroom | 11.78 | 11.19 | 95.00% | YES |
| Fourth | R6 | Bedroom | 11.17 | 10.76 | 96.39% | YES |
| Fourth | R7 | LKD | 22.03 | 21.98 | 99.77% | YES |
| Fourth | R8 | LKD | 19.68 | 19.55 | 99.35% | YES |
| Fourth | R9 | Bedroom | 11.41 | 10.77 | 94.40% | YES |
| Fourth | R10 | Bedroom | 12.15 | 11.05 | 90.95% | YES |
| Fourth | R11 | LKD | 24.22 | 21.31 | 87.96% | YES |
| Fourth | R12 | Bedroom | 11.93 | 11.55 | 96.86% | YES |
| Fourth | R13 | LKD | 19.65 | 19.49 | 99.14% | YES |
| Fifth | R1 | LKD | 19.65 | 19.63 | 99.94% | YES |
| Fifth | R2 | Bedroom | 12.27 | 11.85 | 96.57% | YES |
| Fifth | R3 | Bedroom | 12.54 | 12.03 | 95.89% | YES |
| Fifth | R4 | LKD | 21.17 | 21.14 | 99.87% | YES |
| Fifth | R5 | Bedroom | 11.78 | 11.21 | 95.15% | YES |
| Fifth | R6 | Bedroom | 11.17 | 10.76 | 96.39% | YES |
| Fifth | R7 | LKD | 22.03 | 22.01 | 99.90% | YES |
| Fifth | R8 | LKD | 19.68 | 19.63 | 99.74% | YES |
| Fifth | R9 | Bedroom | 11.41 | 11 | 96.42% | YES |
| Fifth | R10 | Bedroom | 12.15 | 11.47 | 94.43% | YES |
| Fifth | R11 | LKD | 24.22 | 24.21 | 99.95% | YES |
| Fifth | R12 | Bedroom | 11.93 | 11.6 | 97.29% | YES |
| Fifth | R13 | LKD | 19.65 | 19.65 | 100.00% | YES |
| Sixth | R1 | LKD | 19.65 | 19.63 | 99.94% | YES |
| Sixth | R2 | Bedroom | 12.27 | 11.85 | 96.58% | YES |
| Sixth | R3 | Bedroom | 12.54 | 12.03 | 95.92% | YES |

| Floor Ref | Room Ref | Room Use | Room Area (m ²) | No Sky Line (m ²) | % of Room Area | BRE Compliant |
|-----------|----------|----------|-----------------------------|-------------------------------|----------------|---------------|
| Sixth | R4 | LKD | 21.17 | 21.14 | 99.88% | YES |
| Sixth | R5 | Bedroom | 11.78 | 11.21 | 95.19% | YES |
| Sixth | R6 | Bedroom | 11.17 | 10.76 | 96.40% | YES |
| Sixth | R7 | LKD | 22.03 | 22.02 | 99.97% | YES |
| Sixth | R8 | LKD | 19.68 | 19.66 | 99.93% | YES |
| Sixth | R9 | Bedroom | 11.41 | 11 | 96.45% | YES |
| Sixth | R10 | Bedroom | 12.15 | 11.79 | 97.07% | YES |
| Sixth | R11 | LKD | 24.22 | 24.22 | 99.99% | YES |
| Sixth | R12 | Bedroom | 11.93 | 11.64 | 97.55% | YES |
| Sixth | R13 | LKD | 19.65 | 19.65 | 100.00% | YES |
| Seventh | R1 | LKD | 19.65 | 19.63 | 99.94% | YES |
| Seventh | R2 | Bedroom | 12.27 | 11.85 | 96.59% | YES |
| Seventh | R3 | Bedroom | 12.54 | 12.03 | 95.96% | YES |
| Seventh | R4 | LKD | 21.17 | 21.14 | 99.88% | YES |
| Seventh | R5 | Bedroom | 11.78 | 11.21 | 95.21% | YES |
| Seventh | R6 | Bedroom | 11.17 | 10.77 | 96.41% | YES |
| Seventh | R7 | LKD | 22.03 | 22.02 | 99.97% | YES |
| Seventh | R8 | LKD | 19.68 | 19.66 | 99.93% | YES |
| Seventh | R9 | Bedroom | 11.41 | 11 | 96.47% | YES |
| Seventh | R10 | Bedroom | 12.15 | 11.79 | 97.07% | YES |
| Seventh | R11 | LKD | 24.22 | 24.22 | 99.98% | YES |
| Seventh | R12 | Bedroom | 11.93 | 11.55 | 96.83% | YES |
| Seventh | R13 | LKD | 19.65 | 19.65 | 100.00% | YES |
| Eighth | R1 | LKD | 23.99 | 23.89 | 99.58% | YES |
| Eighth | R2 | Bedroom | 12.73 | 12.24 | 96.17% | YES |
| Eighth | R3 | Bedroom | 13.17 | 13.13 | 99.73% | YES |
| Eighth | R4 | LKD | 21.65 | 21.65 | 99.98% | YES |
| Eighth | R5 | LKD | 27.99 | 27.99 | 99.99% | YES |
| Eighth | R6 | Bedroom | 11.07 | 11.05 | 99.90% | YES |

Appendix E

Sunlight study



| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Window Winter % | Proposed Window Annual % | Proposed Room Winter % | Proposed Room Annual % | Meets BRE Criteria |
|------------------|-----------|-----------|-------------|--------------------------|--------------------------|------------------------|------------------------|--------------------|
| Proposed Block 1 | | | | | | | | |
| First | R1 | Bedroom | W1 | 5 | 7 | 5 | 7 | NO |
| First | R2 | Bedroom | W2 | 5 | 28 | 5 | 28 | YES |
| First | R3 | LKD | W3 | 1 | 3 | 1 | 3 | NO |
| First | R4 | Bedroom | W4 | 2 | 26 | 2 | 26 | NO |
| First | R5 | Bedroom | W5 | 2 | 17 | 2 | 17 | NO |
| First | R6 | LKD | W7 | 0 | 3 | 0 | 10 | NO |
| First | R7 | LKD | W8 | 4 | 4 | | | |
| First | R7 | LKD | W9 | 1 | 10 | 4 | 13 | NO |
| First | R8 | Bedroom | W10 | 0 | 7 | 0 | 7 | NO |
| First | R9 | Bedroom | W13 | 0 | 9 | | | |
| First | R9 | Bedroom | W15 | 0 | 9 | 0 | 16 | NO |
| First | R10 | LKD | W17 | 0 | 14 | | | |
| First | R10 | LKD | W18 | 0 | 11 | 0 | 18 | NO |
| Second | R1 | Bedroom | W1 | 6 | 33 | 6 | 33 | YES |
| Second | R2 | Bedroom | W2 | 5 | 31 | 5 | 31 | YES |
| Second | R3 | LKD | W3 | 6 | 9 | 6 | 9 | NO |
| Second | R4 | Bedroom | W4 | 7 | 34 | 7 | 34 | YES |
| Second | R5 | LKD | W5 | 4 | 8 | 4 | 8 | NO |
| Second | R6 | Bedroom | W6 | 2 | 28 | 2 | 28 | NO |
| Second | R7 | Bedroom | W7 | 3 | 22 | 3 | 22 | NO |
| Second | R8 | LKD | W9 | 0 | 3 | 0 | 10 | NO |
| Second | R9 | LKD | W10 | 5 | 5 | | | |
| Second | R9 | LKD | W11 | 1 | 11 | 5 | 15 | NO |
| Second | R10 | Bedroom | W12 | 0 | 7 | 0 | 7 | NO |
| Second | R11 | Bedroom | W15 | 0 | 11 | | | |
| Second | R11 | Bedroom | W17 | 0 | 11 | 0 | 18 | NO |
| Second | R12 | LKD | W19 | 0 | 16 | | | |
| Second | R12 | LKD | W20 | 0 | 13 | 0 | 19 | NO |
| Third | R1 | Bedroom | W1 | 8 | 38 | 8 | 38 | YES |
| Third | R2 | Bedroom | W2 | 7 | 37 | 7 | 37 | YES |
| Third | R3 | LKD | W3 | 7 | 10 | 7 | 10 | NO |
| Third | R4 | Bedroom | W4 | 7 | 37 | 7 | 37 | YES |
| Third | R5 | LKD | W5 | 5 | 9 | 5 | 9 | NO |
| Third | R6 | Bedroom | W6 | 6 | 33 | 6 | 33 | YES |
| Third | R7 | Bedroom | W7 | 5 | 26 | 5 | 26 | YES |
| Third | R8 | LKD | W9 | 0 | 3 | 0 | 10 | NO |
| Third | R9 | LKD | W10 | 7 | 7 | | | |
| Third | R9 | LKD | W11 | 2 | 18 | 7 | 23 | NO |
| Third | R10 | Bedroom | W12 | 1 | 14 | 1 | 14 | NO |
| Third | R11 | Bedroom | W15 | 1 | 17 | | | |
| Third | R11 | Bedroom | W17 | 1 | 17 | 1 | 24 | NO |
| Third | R12 | LKD | W19 | 0 | 21 | | | |
| Third | R12 | LKD | W20 | 0 | 15 | 0 | 24 | NO |
| Fourth | R1 | Bedroom | W1 | 11 | 41 | 11 | 41 | YES |
| Fourth | R2 | Bedroom | W2 | 9 | 39 | 9 | 39 | YES |
| Fourth | R3 | LKD | W3 | 10 | 17 | 10 | 17 | NO |
| Fourth | R4 | Bedroom | W4 | 12 | 43 | 12 | 43 | YES |
| Fourth | R5 | LKD | W5 | 7 | 11 | 7 | 11 | NO |
| Fourth | R6 | Bedroom | W6 | 8 | 37 | 8 | 37 | YES |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Window | | Proposed Room | | Meets BRE Criteria |
|------------|-----------|-----------|-------------|-----------------|----------|---------------|----------|--------------------|
| | | | | Winter % | Annual % | Winter % | Annual % | |
| Fourth | R7 | Bedroom | W7 | 5 | 28 | 5 | 28 | YES |
| Fourth | R8 | LKD | W9 | 0 | 5 | 0 | 12 | NO |
| Fourth | R9 | LKD | W10 | 8 | 8 | | | |
| Fourth | R9 | LKD | W11 | 4 | 25 | 8 | 29 | YES |
| Fourth | R10 | Bedroom | W12 | 2 | 21 | 2 | 22 | NO |
| Fourth | R11 | Bedroom | W15 | 3 | 23 | | | |
| Fourth | R11 | Bedroom | W17 | 3 | 23 | 3 | 31 | NO |
| Fourth | R12 | LKD | W19 | 1 | 25 | | | |
| Fourth | R12 | LKD | W20 | 0 | 20 | 1 | 28 | NO |
| Fifth | R1 | Bedroom | W2 | 16 | 54 | 16 | 64 | YES |
| Fifth | R2 | Bedroom | W3 | 16 | 48 | 16 | 48 | YES |
| Fifth | R3 | LKD | W4 | 15 | 54 | 15 | 54 | YES |
| Fifth | R4 | Bedroom | W5 | 14 | 44 | 14 | 44 | YES |
| Fifth | R5 | Bedroom | W6 | 8 | 31 | 8 | 31 | YES |
| Fifth | R6 | LKD | W8 | 1 | 6 | | | |
| Fifth | R6 | LKD | W9 | 1 | 6 | 1 | 15 | NO |
| Fifth | R7 | LKD | W10 | 12 | 12 | | | |
| Fifth | R7 | LKD | W11 | 8 | 38 | 13 | 43 | YES |
| Fifth | R8 | Bedroom | W12 | 4 | 32 | 4 | 32 | NO |
| Fifth | R9 | Bedroom | W15 | 7 | 30 | | | |
| Fifth | R9 | Bedroom | W17 | 8 | 31 | 8 | 41 | YES |
| Fifth | R10 | LKD | W19 | 5 | 35 | | | |
| Fifth | R10 | LKD | W20 | 3 | 27 | 6 | 37 | YES |
| Sixth | R1 | LKD | W3 | 3 | 11 | 4 | 26 | NO |
| Sixth | R2 | LKD | W4 | 13 | 16 | | | |
| Sixth | R2 | LKD | W5 | 13 | 47 | 16 | 51 | YES |
| Sixth | R3 | Bedroom | W6 | 7 | 39 | 7 | 39 | YES |
| Sixth | R4 | Bedroom | W9 | 13 | 36 | | | |
| Sixth | R4 | Bedroom | W11 | 13 | 36 | 13 | 48 | YES |
| Sixth | R5 | LKD | W13 | 10 | 42 | | | |
| Sixth | R5 | LKD | W14 | 5 | 30 | 11 | 43 | YES |
| Seventh | R1 | LKD | W3 | 5 | 13 | 6 | 28 | YES |
| Seventh | R2 | LKD | W4 | 17 | 20 | | | |
| Seventh | R2 | LKD | W5 | 17 | 52 | 21 | 56 | YES |
| Seventh | R3 | Bedroom | W6 | 11 | 44 | 11 | 44 | YES |
| Seventh | R4 | Bedroom | W9 | 16 | 39 | | | |
| Seventh | R4 | Bedroom | W11 | 16 | 39 | 17 | 52 | YES |
| Seventh | R5 | LKD | W13 | 13 | 45 | | | |
| Seventh | R5 | LKD | W14 | 7 | 32 | 13 | 45 | YES |
| Eighth | R1 | Bedroom | W1 | 19 | 56 | 19 | 56 | YES |
| Eighth | R2 | LKD | W2 | 13 | 45 | | | |
| Eighth | R2 | LKD | W3 | 7 | 32 | 13 | 45 | YES |
| Ninth | R1 | Bedroom | W1 | 19 | 56 | 19 | 56 | YES |
| Ninth | R2 | LKD | W2 | 13 | 45 | | | |
| Ninth | R2 | LKD | W3 | 7 | 32 | 13 | 45 | YES |
| Tenth | R1 | Bedroom | W1 | 19 | 56 | 19 | 56 | YES |
| Tenth | R2 | LKD | W2 | 13 | 45 | | | |
| Tenth | R2 | LKD | W3 | 7 | 32 | 13 | 45 | YES |
| Eleventh | R1 | Bedroom | W1 | 19 | 56 | 19 | 56 | YES |
| Eleventh | R2 | LKD | W2 | 13 | 45 | | | |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Window | | Proposed Room | | Meets BRE Criteria |
|------------------|-----------|-----------|-------------|-----------------|----------|---------------|----------|--------------------|
| | | | | Winter % | Annual % | Winter % | Annual % | |
| Eleventh | R2 | LKD | W3 | 7 | 32 | 13 | 45 | YES |
| Twelfth | R1 | LKD | W1 | 5 | 22 | | | |
| Twelfth | R1 | LKD | W2 | 10 | 34 | | | |
| Twelfth | R1 | LKD | W3 | 14 | 40 | | | |
| Twelfth | R1 | LKD | W4 | 14 | 42 | 15 | 56 | YES |
| Proposed Block 2 | | | | | | | | |
| First | R1 | LKD | W1 | 13 | 24 | 13 | 31 | YES |
| First | R2 | Bedroom | W2 | 14 | 42 | 14 | 42 | YES |
| First | R3 | Bedroom | W3 | 12 | 41 | 12 | 41 | YES |
| First | R4 | LKD | W4 | 11 | 19 | 11 | 19 | NO |
| First | R5 | Bedroom | W5 | 12 | 41 | 12 | 41 | YES |
| First | R6 | Bedroom | W6 | 12 | 42 | 12 | 42 | YES |
| First | R7 | LKD | W7 | 9 | 19 | | | |
| First | R7 | LKD | W8 | 0 | 3 | | | |
| First | R7 | LKD | W9 | 0 | 3 | 9 | 22 | NO |
| First | R8 | LKD | W10 | 0 | 4 | 0 | 4 | NO |
| Second | R1 | LKD | W1 | 14 | 28 | 14 | 36 | YES |
| Second | R2 | Bedroom | W2 | 15 | 46 | 15 | 46 | YES |
| Second | R3 | Bedroom | W3 | 14 | 46 | 14 | 46 | YES |
| Second | R4 | LKD | W4 | 13 | 22 | 13 | 22 | NO |
| Second | R5 | Bedroom | W5 | 13 | 43 | 13 | 43 | YES |
| Second | R6 | Bedroom | W6 | 13 | 45 | 13 | 45 | YES |
| Second | R7 | LKD | W7 | 11 | 22 | | | |
| Second | R7 | LKD | W8 | 0 | 4 | | | |
| Second | R7 | LKD | W9 | 0 | 4 | 11 | 26 | YES |
| Second | R8 | LKD | W10 | 0 | 5 | 0 | 5 | NO |
| Third | R1 | LKD | W1 | 16 | 30 | 16 | 38 | YES |
| Third | R2 | Bedroom | W2 | 16 | 48 | 16 | 48 | YES |
| Third | R3 | Bedroom | W3 | 15 | 48 | 15 | 48 | YES |
| Third | R4 | LKD | W4 | 15 | 26 | 15 | 26 | YES |
| Third | R5 | Bedroom | W5 | 14 | 45 | 14 | 45 | YES |
| Third | R6 | Bedroom | W6 | 14 | 46 | 14 | 46 | YES |
| Third | R7 | LKD | W7 | 11 | 23 | | | |
| Third | R7 | LKD | W8 | 0 | 9 | | | |
| Third | R7 | LKD | W9 | 0 | 10 | 11 | 33 | YES |
| Third | R8 | LKD | W10 | 0 | 11 | 0 | 11 | NO |
| Fourth | R1 | LKD | W1 | 19 | 33 | 19 | 41 | YES |
| Fourth | R2 | Bedroom | W2 | 19 | 51 | 19 | 51 | YES |
| Fourth | R3 | Bedroom | W3 | 19 | 52 | 19 | 52 | YES |
| Fourth | R4 | LKD | W4 | 18 | 30 | 18 | 30 | YES |
| Fourth | R5 | Bedroom | W5 | 16 | 48 | 16 | 48 | YES |
| Fourth | R6 | Bedroom | W6 | 16 | 49 | 16 | 49 | YES |
| Fourth | R7 | LKD | W7 | 14 | 27 | | | |
| Fourth | R7 | LKD | W8 | 1 | 15 | | | |
| Fourth | R7 | LKD | W9 | 1 | 14 | 15 | 42 | YES |
| Fourth | R8 | LKD | W10 | 2 | 18 | 2 | 18 | NO |
| Fifth | R1 | LKD | W1 | 22 | 36 | 22 | 44 | YES |
| Fifth | R2 | Bedroom | W2 | 19 | 51 | 19 | 51 | YES |
| Fifth | R3 | Bedroom | W3 | 19 | 52 | 19 | 52 | YES |
| Fifth | R4 | LKD | W4 | 23 | 35 | 23 | 35 | YES |

| Floor Ref. | Room Ref. | Room Use. | Window Ref. | Proposed Window | | Proposed Room | | Meets BRE Criteria |
|------------|-----------|-----------|-------------|-----------------|----------|---------------|----------|--------------------|
| | | | | Winter % | Annual % | Winter % | Annual % | |
| Fifth | R5 | Bedroom | W5 | 21 | 53 | 21 | 53 | YES |
| Fifth | R6 | Bedroom | W6 | 18 | 51 | 18 | 51 | YES |
| Fifth | R7 | LKD | W7 | 19 | 33 | | | |
| Fifth | R7 | LKD | W8 | 2 | 22 | | | |
| Fifth | R7 | LKD | W9 | 3 | 24 | 20 | 55 | YES |
| Fifth | R8 | LKD | W10 | 4 | 27 | 4 | 27 | NO |
| Sixth | R1 | LKD | W1 | 23 | 37 | 23 | 45 | YES |
| Sixth | R2 | Bedroom | W2 | 21 | 53 | 21 | 53 | YES |
| Sixth | R3 | Bedroom | W3 | 22 | 55 | 22 | 55 | YES |
| Sixth | R4 | LKD | W4 | 24 | 36 | 24 | 36 | YES |
| Sixth | R5 | Bedroom | W5 | 22 | 54 | 22 | 54 | YES |
| Sixth | R6 | Bedroom | W6 | 22 | 55 | 22 | 55 | YES |
| Sixth | R7 | LKD | W7 | 21 | 35 | | | |
| Sixth | R7 | LKD | W8 | 6 | 33 | | | |
| Sixth | R7 | LKD | W9 | 5 | 32 | 22 | 63 | YES |
| Sixth | R8 | LKD | W10 | 6 | 33 | 6 | 35 | YES |
| Seventh | R1 | LKD | W1 | 25 | 71 | 25 | 75 | YES |
| Seventh | R2 | Bedroom | W2 | 22 | 55 | 22 | 55 | YES |
| Seventh | R3 | Bedroom | W3 | 22 | 55 | 22 | 55 | YES |
| Seventh | R4 | LKD | W4 | 25 | 71 | 25 | 71 | YES |
| Seventh | R5 | Bedroom | W5 | 22 | 55 | 22 | 55 | YES |
| Seventh | R6 | Bedroom | W6 | 22 | 55 | 22 | 55 | YES |
| Seventh | R7 | LKD | W7 | 25 | 71 | | | |
| Seventh | R7 | LKD | W8 | 11 | 40 | | | |
| Seventh | R7 | LKD | W9 | 11 | 40 | 27 | 92 | YES |
| Seventh | R8 | LKD | W10 | 11 | 40 | 11 | 41 | YES |
| Eighth | R1 | LKD | W1 | 22 | 57 | | | |
| Eighth | R1 | LKD | W2 | 22 | 57 | | | |
| Eighth | R1 | LKD | W3 | 22 | 57 | 22 | 57 | YES |
| Eighth | R2 | Bedroom | W4 | 22 | 57 | | | |
| Eighth | R2 | Bedroom | W5 | 22 | 57 | 22 | 57 | YES |
| Eighth | R3 | Bedroom | W6 | 22 | 57 | | | |
| Eighth | R3 | Bedroom | W7 | 22 | 57 | | | |
| Eighth | R3 | Bedroom | W8 | 22 | 57 | 22 | 57 | YES |
| Eighth | R4 | LKD | W9 | 13 | 44 | | | |
| Eighth | R4 | LKD | W10 | 13 | 44 | | | |
| Eighth | R4 | LKD | W11 | 13 | 44 | 13 | 45 | YES |

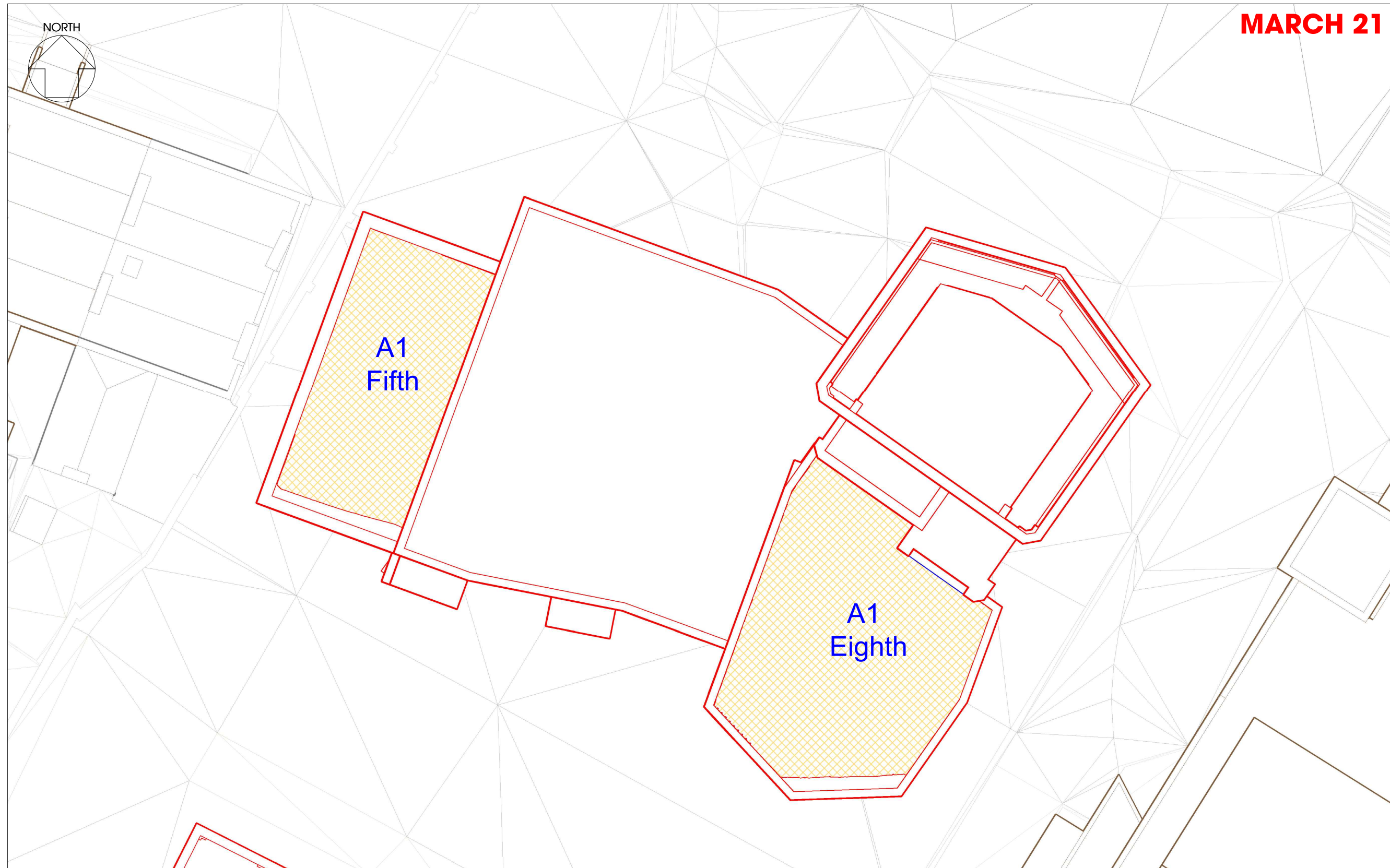
Appendix F

Overshadowing study



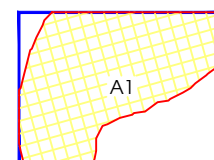
NORTH

MARCH 21



PROPOSED BLOCK 1 AMENITY AREAS

KEY



Proposed area receiving over 2 hours of Sun

Amenity area

SOURCES OF INFORMATION:

- REDDY ARCHITECTURE
- 3582 St Michaels Hospital, Dun Laoghaire - Elevations.dwg
 - 3582 St Michaels Hospital, Dun Laoghaire, ITM15_200_2D.dwg
 - P18-143D-RAU-01-ZZ-DR-A-PL1-31001-P7-Building 01 - Ground, Mezza.dwg
 - P18-143D-RAU-01-ZZ-DR-A-PL1-31002-P7-Building 01 - Third, Fourth.dwg
 - P18-143D-RAU-01-ZZ-DR-A-PL1-31003-P7-Building 01 - Seventh, Eighth.dwg
 - P18-143D-RAU-01-ZZ-DR-A-PL1-31004-P7-Building 01 - Roof Plan.dwg
 - P18-143D-RAU-01-ZZ-DR-A-PL1-32010-P7-Building 01 - Elevations 01.dwg
 - P18-143D-RAU-01-ZZ-DR-A-PL1-32011-P7-Building 01 - Elevations 02.dwg
 - P18-143D-RAU-02-ZZ-DR-A-PL1-31001-P7-Building 02 - Ground, First.dwg
 - P18-143D-RAU-02-ZZ-DR-A-PL1-31002-P7-Building 02 - Fourth, Fifth.dwg
 - P18-143D-RAU-02-ZZ-DR-A-PL1-31003-P7-Building 02 - Roof Plan.dwg
 - P18-143D-RAU-02-ZZ-DR-A-PL1-32010-P7-Building 02 - Elevations 01.dwg
 - P18-143D-RAU-02-ZZ-DR-A-PL1-31003-P7-Proposed Site Plan.dwg
 - P18-143D-RAU-ZZ-ZZ-DR-A-PL1-33001-P7-Sections A-A and B-B.dwg
 - P18-143D-RAU-ZZ-ZZ-DR-A-PL1-33002-P7-Section C-C and Section D-D.dwg
 - Proposed Building 01 - L01 - First Level Floor Plan.dwg
 - Proposed Building 01 - L02 - Second Floor Plan.dwg
 - Building 02 - L01 - First Floor Plan.dwg

Received 17 August 2020

VU CITY

200157_St_Michael's_Seafront_Quarter_Dublin_MASTER.dwg

Received 08 June 2020

| Rev. | Date | Amendments | Initial |
|------|------|------------|---------|
|------|------|------------|---------|

HOLLIS SHALL BE INFORMED IN WRITING OF ANY DISCREPANCIES. ALL DIMENSIONS ARE IN METERS ONLY

TITLE
**Proposed 2hr Sun Contours
 March 21st**

CLIENT
Reddy Architecture + Urbanism

PROJECT
**St Michaels Church,
 Sea Front Quarter,
 Dublin**

DRAWN BY
SM

CHECKED
BSC

SCALE
XXX@A3

DATE
August 2020

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