

# Daylight & Sunlight Report 117 Fellows Road, Camden, NW3 3JS

22<sup>nd</sup> December 2020

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# **DAYLIGHT & SUNLIGHT REPORT**

| Client:      | Boyer Planning Limited                   |
|--------------|--|
| Project:     | 117 Fellows Road, Camden, NW3 3JS        |
| Report date: | 22 <sup>nd</sup> December 2020           |
| Authors:     | Chris Jones BEng (Hons) MSc ACIOB        |
|              | Andrew Pickersgill BSc (Hons), AssocRICS |



## About MES Building Solutions

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We offer a full range of services for both residential and commercial buildings from small individual properties through to highly complex mixed use developments.

We are an industry leader in delivering a professional, accredited and certified service to a wide range of clients including architects, developers, builders, housing associations, the public sector and private householders.

Employing highly qualified staff, our team comes from a variety of backgrounds within the construction industry with combined knowledge of building design, engineering, assessment, construction, development, research and surveying.

*MES Building Solutions* maintains its position at the forefront of changes in building regulations as well as technological advances. Our clients, large or small are therefore assured of a cost effective, cohesive and fully integrated professional service.

## About the Authors

*Chris Jones* is the Technical Director at *MES Building Solutions*. Chris has a Masters Degree in Energy Efficient & Sustainable Building, as well as an Honours degree in Mechanical Engineering. Chris has over 15 years' experience in providing sustainable building solutions and leads the Neighbourly Matters team at MES. He undertakes daylighting, sunlight and shadow cast analysis for planning applications. Chris is also a qualified BREEAM and Code for Sustainable Homes assessor and has worked with some of the UK's top developers, as well as housing associations and local authorities.

Andrew Pickersgill is an Associate member of the Royal Institution of Chartered Surveyors and is a member of our neighbourly matters team. He has a BSc (Hons) degree in Building Surveying. Andrew undertakes daylighting, sunlight and shadow analysis for planning applications. He is also involved in party wall issues and carries out other building surveying services for our clients.



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## 1. Executive Summary

- 1.1 We have carried out calculations following guidance in Site Layout Planning for Daylight & Sunlight (SLPDS), PJ Littlefair 2011 to ascertain the impact of the proposed rooftop extension of 117 Fellows Road, Camden NW3 3JS, on the daylight and sunlight of the neighbouring properties.
- 1.2 We have assessed 74 windows, serving 57 habitable rooms, within 17 neighbouring residential properties. In this case all of the neighbouring windows and rooms comfortably fulfil all the planning guidance.
- 1.3 We have also assessed amenity spaces serving five properties. All of the amenity spaces assessed comfortably fulfil the BRE planning guidance.
- 1.4 In our opinion the proposals accord fully with the intent and context of the planning guidance in this case.



## 2. Introduction

- 2.1 The purpose of this report is to assess the impact of the proposed rooftop extension of 117 Fellows Road, Camden NW3 3JS, on the daylight and sunlight of the neighbouring properties.
- 2.2 This report considers the daylight and sunlight issues against the criteria set out for national guidance in the following publications:
  - Site Layout Planning for Daylight & Sunlight (SLPDS), PJ Littlefair 2011 published by the BRE (Building Research Establishment).

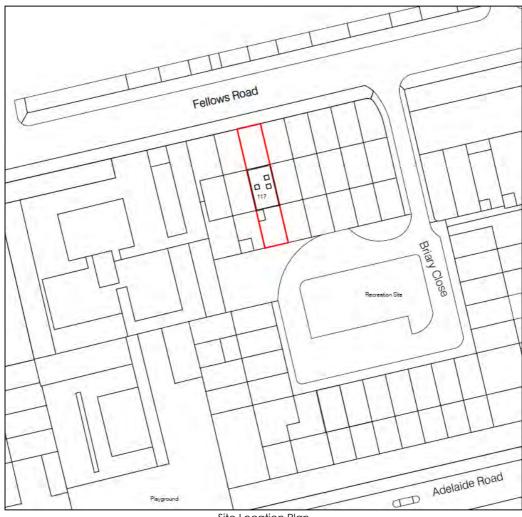
The SLPDS is the culmination of research undertaken by the BRE to determine whether or not a new development will adversely affect the light to nearby properties. The BRE tests are approved by the Department of the Environment and are widely used by local authorities when deciding on development applications.

- BS 8206-2- Code of practice for skylighting.
- 2.3 There are no minimum mandatory requirements for sunlight & skylight in Building Regulations for England & Wales but the guidance set out in SLPDS is widely accepted as the approved methodology when calculating sunlight & skylight.
- 2.4 It is worthy of note that SLPDS was first published in 1991 and BS 8206-2 in 1992. However SLPDS was updated in Oct 2011 and we have therefore undertaken this study on the basis of this guidance document.



## 3. Description of Development

- 3.1 The scheme comprises of a roftop extension to the existing residential property to provide an additional floor of accomodation.
- 3.2 The property is located on the south side of Fellows Road and is situated within a terraced block of other similarly sized houses adjoining the road.







## 4. Assessment Process

#### The effect on neighbouring properties:

4.1 The SLPDS describes three parameters to be assessed in order to measure the impact of the proposed new building on Daylight/Sunlight availability to the key adjacent properties. The three parameters to be assessed are as follows:

#### 1) Daylight:

Vertical Sky Component (VSC) Daylight Distribution (DD)

## 2) Sunlight:

Annual Probable Sunlight Hours (APSH)

#### 3) Overshadowing (Amenity Space)

On relevant open spaces

- 4.2 The guidance states that rooms to be assessed should be living rooms, kitchens and bedrooms in residential properties. In non-domestic buildings rooms where occupants 'have a reasonable expectation of daylight' should be assessed. Although these spaces are not defined, examples are given of the type of non-domestic buildings that would normally fall into this category. These include schools, hospitals, hotels and hostels, small workshops and *some* offices.
- 4.3 As it is difficult to be sure of the specific use of neighbouring spaces we have taken a view on the relevance of the spaces adjacent to the proposed development. If we have been in any doubt we have carried out the assessment. However it should be noted some of the spaces we have assessed could fall outside the test requirement criteria.
- 4.4 It is important to note that the numerical values in the guidance are advisory and different criteria may be used based on the requirements for daylighting in an area viewed against other site layout constraints.
- 4.5 The neighbouring properties we have assessed are as follows:
  - 1 Briary Close
  - 2 Briary Close
  - 3 Briary Close
  - 4 Briary Close
  - 5 Briary Close
  - 6 Briary Close
  - 7 Briary Close
  - 8 Briary Close
  - 9 Briary Close

- 10 Briary Close
- 11 Briary Close
- 12 Briary Close
- 13 Briary Close
- 14 Briary Close
- 15 Briary Close
- 16 Briary Close
- 17 Briary Close

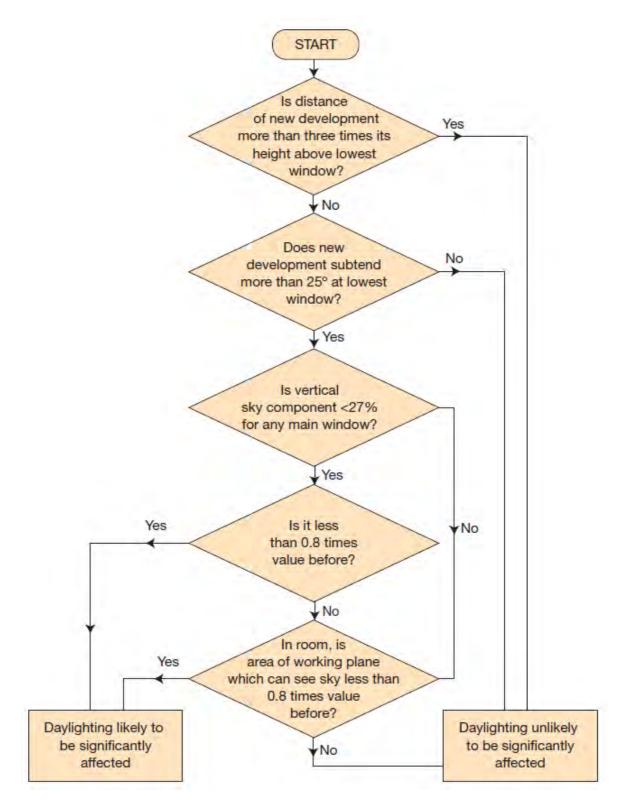


- 4.6 The neighbouring amenity spaces we have assessed are as follows:
  - 111 Fellows Road
  - 113 Fellows Road
  - 115 Fellows Road
  - 119 Fellows Road
  - 121 Fellows Road
- 4.7 The assessment is based on the following drawings, provided by ZED Architect:
  - 117 Fellows road Existing Elevations 101 rev01
  - 117 Fellows road Existing Roof Layout and Section 100
  - 117 Fellows road Proposed Block Plan 115
  - 117 Fellows road Proposed Front and Rear Elevations 111 rev02
  - 117 Fellows road Proposed Side Elevations 112
  - 117 Fellows road Proposed Third and Roof layout and Section 110



# 5. Daylight

5.1 Site Layout Planning for Daylight & Sunlight contains the following flow chart showing the steps which should be taken in order to establish whether a building will receive adequate daylight:





## Distance Check:

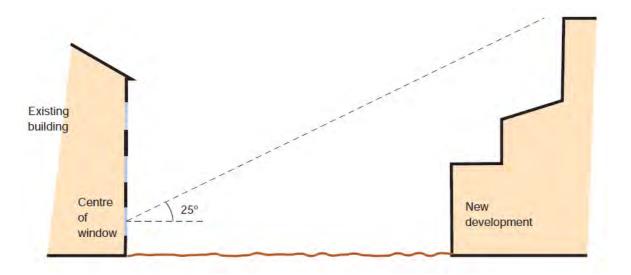
5.2 Site Layout Planning for Daylight & Sunlight (2011) states: "Loss of light to existing windows need not be analysed if the distance of each part of the new development from the existing window is three or more times its height above the centre of the existing window."

#### Distance Check Results

5.3 On this occasion the ratio of the height of the proposed building to its distance from the centre of the lowest existing window is likely to be less than 1:3 and the 25° rule must be applied.

#### 25° Rule:

5.4 The angle to the horizontal subtended by the new development at the level of the centre of the lowest affected window should be no greater than 25°. If this is the case then it is unlikely to have a noticeable effect on diffuse skylight enjoyed by the existing building.



5.5 If, for any part of the development, the angle is more than 25°, a more detailed check is needed to find the loss of skylight to the existing building:

#### 25° Rule Results

5.6 On this occasion the angle to the horizontal subtended by the new development at the level of the centre of the lowest affected window is likely to be greater than 25° and more detailed checks are necessary:



## Vertical Sky Component:

- 5.7 Daylight is the light received from the sun which is diffused through the sky's clouds. Even on a cloudy day when the sun is not visible a room will continue to be lit with light from the sky. This is also known as 'diffuse light'. Any reduction in the total amount of daylight can be calculated by finding the 'Vertical Sky Component'.
- 5.8 The Vertical Sky Component (VSC) is the ratio of the direct skylight illuminance falling on a vertical face at a reference point (usually the centre of a window), to the simultaneous horizontal illuminance under an unobstructed sky.
- 5.9 The guidance states that the VSC will be adversely affected if after a development it is both less than 27% of the overall available diffuse light and less than 0.8 times its former value.
- 5.10 Therefore if the VSC is more than 27% then enough light would still be reaching the window of the neighbouring building. However if the VSC is less than 27% as well as less than 0.8 times its former value the occupants will notice the reduction in the amount of skylight.

## VSC Results

5.11 Calculations were undertaken in accordance with the planning guidance contained in BRE document 209 'Site Layout Planning for Daylight & Sunlight' - PJ Littlefair 2011.

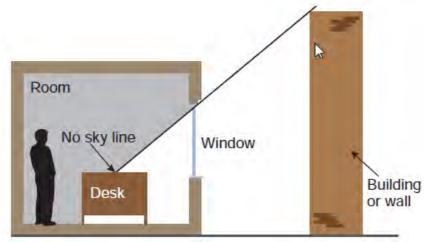
Detailed results are in Section 8.

5.12 As can be seen the proposed development has very little impact on neighbouring properties with all of the 74 windows serving habitable rooms in the 17 neighbouring properties assessed comfortably meeting the BRE guidance for vertical sky component.



## Daylight Distribution:

- 5.13 Where room layouts are known (or estimated) the impact on daylighting distribution can be found by plotting what is known as the 'no sky line' in each of the main rooms. These are the same rooms as used for the VSC test.
- 5.14 The no sky line effectively divides the points on the working plane (0.85m high for residential properties and 0.7m high for offices) that cannot see the sky. Therefore areas beyond the no sky line will receive no direct daylight but will instead be lit from reflected light.



BRE 209

- 5.15 If, following the construction of a new development, the no sky line moves so that the area of the existing room, which does not receive direct skylight, is reduced to less than 0.8 times its former value, this will be noticeable to the occupants.
- 5.16 We have estimated internal layouts to assess the Daylight Distribution in rooms adjacent to the development.

## Daylight Distribution Results

5.17 Calculations were undertaken in accordance with the planning guidance contained in BRE document 209 'Site Layout Planning for Daylight & Sunlight' - PJ Littlefair 2011.

Detailed results are in Section 8.

5.18 As can be seen the proposed development has very little impact on neighbouring properties with all of the 57 habitable rooms in the 17 neighbouring properties assessed comfortably meeting the BRE guidance for daylight distribution.



# 6. Sunlight

## Available Sunlight Hours

- 6.1 Guidance for minimum sunlight values can be found in Section 3 of Site Layout Planning for Daylight and Sunlight (SLPDS).
- 6.2 Habitable rooms in domestic buildings that face within 90° of due south are tested, as are rooms in non-domestic buildings that have a particular requirement for sunlight.
- 6.3 The recommendations are that applicable windows should receive a minimum of 25% of the total annual probable sunshine hours, to include a minimum of 5% of that which is available during the winter months between 21<sup>st</sup> September to the 21<sup>st</sup> March (the approximate dates of the spring and autumn equinoxes).
- 6.4 However if this is not possible (or the amount of sunlight is already reduced because of the effect of existing obstructions) then a further reduction in sunlight availability will be noticeable to an occupier if the total number of sunlight hours is below the target 25% of the total annual probable sunshine hours, to include a minimum of 5% of that which is available during the winter months, *and* is less than 0.8 times its former value prior to the development.
- 6.5 There is no requirement for windows that face within 90° of due north so windows that fall into this category have not been considered for sunlight calculations.

## Available Sunlight Hours Results

6.6 Calculations were undertaken in accordance with the planning guidance contained in BRE document 209 'Site Layout Planning for Daylight & Sunlight' - PJ Littlefair 2011.

Detailed results are in Section 8.

6.7 As can be seen the proposed development has very little impact on neighbouring properties with all of the 74 windows serving habitable rooms in the 17 neighbouring properties assessed comfortably meeting the BRE guidance for annual probable sunlight hours.



# 7. Amenity Space

- 7.1 Recent guidance through the BRE suggests that at least 50% of any garden or open spaces should receive no less than 2 hours of direct sun on the spring equinox (March 21st).
- 7.2 Open spaces would normally include:
  - Gardens, usually the main back garden of a house
  - Parks and playing fields
  - Children's playgrounds
  - Outdoor swimming pools and paddling pools
  - Sitting out areas such as those between non-domestic buildings and in public squares
  - Focal points for views such as a group of monuments or fountains

#### Amenity Space Results

7.3 Calculations were undertaken in accordance with the planning guidance contained in BRE document 209 'Site Layout Planning for Daylight & Sunlight' - PJ Littlefair 2011.

Detailed results are in Section 8:

7.4 As can be seen the proposed development has very little impact on neighbouring amenity spaces with amenity spaces serving all five of the neighbouring properties assessed comfortably meeting the BRE guidance for sunlight to external spaces.



# 8. Appendices

# Results:

*Vertical Sky Component Available Sunlight Hours* 

Daylight Distribution

Amenity Space



| Floor<br>Ref. | Room<br>Ref. | Room Use.   | Window<br>Ref. |                      | vsc            | Pr/Ex   | Meets<br>BRE<br>Guidance | Annual                | Pr/Ex | Meets<br>BRE<br>Guidance | Winter                | Pr/Ex | Meets<br>BRE<br>Guidance |
|---------------|--------------|-------------|----------------|----------------------|----------------|---------|--------------------------|-----------------------|-------|--------------------------|-----------------------|-------|--------------------------|
|               |              |             |                |                      |                | 1 Briar | y Close                  |                       |       |                          |                       |       |                          |
| Gnd           | R1           | Living Room | W1             | Existing<br>Proposed | 28.46<br>28.34 | 1.00    | YES                      | <b>42.00</b><br>41.00 | 0.98  | YES                      | <b>14.00</b><br>14.00 | 1.00  | YES                      |
| 1st           | R1           | Living Room | W1             | Existing             | 30.28          | 1.00    | YES                      | 47.00                 | 1.00  | YES                      | 18.00                 | 1.00  | YES                      |
|               |              |             |                | Proposed             | 30.15          |         |                          | 47.00                 |       |                          | 18.00                 |       |                          |
|               |              |             | W2             | Existing<br>Proposed | 31.06<br>30.92 | 1.00    | YES                      | <b>42.00</b><br>42.00 | 1.00  | YES                      | <b>15.00</b><br>15.00 | 1.00  | YES                      |
| 2nd           | R1           | Bedroom     | W1             | Existing             | 32.41          | 0.99    | YES                      | 49.00                 | 1.00  | YES                      | 18.00                 | 1.00  | YES                      |
|               |              |             |                | Proposed             | 32.25          |         |                          | 49.00                 |       |                          | 18.00                 |       |                          |
|               | R2           | Bedroom     | W2             | Existing             | 32.85          | 1.00    | YES                      | 44.00                 | 1.00  | YES                      | 16.00                 | 1.00  | YES                      |
|               |              |             |                | Proposed             | 32.69          |         |                          | 44.00                 |       |                          | 16.00                 |       |                          |
|               |              |             |                |                      |                | 2 Briar | y Close                  | <u>I</u>              |       |                          |                       |       |                          |
| Gnd           | R1           | Living Room | W1             | Existing             | 28.68          | 1.00    | YES                      | 40.00                 | 0.98  | YES                      | 12.00                 | 1.00  | YES                      |
|               |              |             |                | Proposed             | 28.56          |         |                          | 39.00                 |       |                          | 12.00                 |       |                          |
| 1st           | R1           | Living Room | W1             | Existing<br>Proposed | 31.00<br>30.87 | 1.00    | YES                      | <b>46.00</b><br>46.00 | 1.00  | YES                      | <b>17.00</b><br>17.00 | 1.00  | YES                      |
|               |              |             | W2             | Existing             | 31.08          | 1.00    | YES                      | 40.00                 | 1.00  | YES                      | 14.00                 | 1.00  | YES                      |
|               |              |             |                | Proposed             | 30.95          |         |                          | 42.00                 |       |                          | 14.00                 |       |                          |
| 2nd           | R1           | Bedroom     | W1             | Existing             | 33.09          | 1.00    | YES                      | 49.00                 | 1.00  | YES                      | 18.00                 | 1.00  | YES                      |
|               |              |             |                | Proposed             | 32.94          |         |                          | 49.00                 |       |                          | 18.00                 |       |                          |
|               | R2           | Bedroom     | W2             | Existing             | 33.20          | 1.00    | YES                      | 45.00                 | 1.00  | YES                      | 16.00                 | 1.00  | YES                      |
|               |              |             |                | Proposed             | 33.06          |         |                          | 45.00                 |       |                          | 16.00                 |       |                          |
|               |              |             |                |                      |                | 3 Briar | y Close                  | •                     |       |                          |                       |       |                          |
| Gnd           | R1           | Living Room | W1             | Existing             | 28.79          | 1.00    | YES                      | 39.00                 | 1.00  | YES                      | 9.00                  | 1.00  | YES                      |
|               |              |             |                | Proposed             | 28.69          |         |                          | 39.00                 |       |                          | 9.00                  |       |                          |
| 1st           | R1           | Living Room | W1             | Existing             | 30.96          | 1.00    | YES                      | 46.00                 | 0.98  | YES                      | 16.00                 | 1.00  | YES                      |
|               |              |             | W2             | Proposed<br>Existing | 30.84<br>30.95 | 1.00    | YES                      | 45.00<br><b>40.00</b> | 0.98  | YES                      | 16.00<br><b>11.00</b> | 1.00  | YES                      |
|               |              |             |                | Proposed             | 30.83          |         |                          | 39.00                 |       |                          | 11.00                 |       |                          |
| 2nd           | R1           | Bedroom     | W1             | Existing             | 33.21          | 1.00    | YES                      | 49.00                 | 1.00  | YES                      | 18.00                 | 1.00  | YES                      |
|               |              |             |                | Proposed             | 33.09          |         |                          | 49.00                 |       |                          | 18.00                 |       |                          |
|               | R2           | Bedroom     | W2             | Existing             | 33.36          | 1.00    | YES                      | 45.00                 | 1.00  | YES                      | 16.00                 | 1.00  | YES                      |
|               |              |             |                | Proposed             | 33.24          |         |                          | 45.00                 |       |                          | 16.00                 |       |                          |

| 1           | Bedroom     | W1<br>W2  | Existing<br>Proposed<br>Existing<br>Proposed   | 30.02<br>29.92<br>29.17  | <b>4 Briar</b><br>1.00  | y Close<br>YES   |  |  |  |   |   |   |
|-------------|-------------|---|--|--|---|--|--|--|--|---|---|---|
|             |             | W2  | Proposed<br>Existing   | 29.92  | 1.00  | YES  |  |  |  |   |   |   |
| 1           | Bedroom     |   | Existing   | 29.17  |   |  | <b>42.00</b><br>41.00  | 0.98   | YES  | <b>12.00</b><br>12.00   | 1.00  | YES   |
| 1           | Bedroom     |   |  | 29.07  | 1.00  | YES  | <b>35.00</b><br>35.00  | 1.00   | YES  | <b>7.00</b><br>7.00   | 1.00  | YES   |
|             |             | W1  | Existing<br>Proposed   | 33.05<br>32.94   | 1.00  | YES  | <b>49.00</b><br>49.00  | 1.00   | YES  | <b>18.00</b><br>18.00   | 1.00  | YES   |
| 2           | Bedroom     | W2  | Existing<br>Proposed   | 32.86<br>32.77   | 1.00  | YES  | <b>43.00</b><br>43.00  | 1.00   | YES  | <b>15.00</b><br>15.00   | 1.00  | YES   |
|             |             |   |  |  | 5 Briar   | y Close  |  |  |  |   |   |   |
| 1           | Living Room | W1  | Existing<br>Proposed   | 25.54<br>25.45   | 1.00  | YES  | <b>28.00</b><br>28.00  | 1.00   | YES  | <b>1.00</b><br>1.00   | 1.00  | YES   |
|             |             | W2  | Existing<br>Proposed   | 20.83<br>20.75   | 1.00  | YES  | <b>11.00</b><br>11.00  | 1.00   | YES  | <b>0.00</b><br>0.00   | 1.00  | YES   |
| 1           | Bedroom     | W1  | Existing<br>Proposed   | 31.54<br>31.46   | 1.00  | YES  | <b>43.00</b><br>43.00  | 1.00   | YES  | <b>12.00</b><br>12.00   | 1.00  | YES   |
| 2           | Bedroom     | W2  | Existing<br>Proposed   | 27.56<br>27.49   | 1.00  | YES  | <b>31.00</b><br>31.00  | 1.00   | YES  | <b>3.00</b><br>3.00   | 1.00  | YES   |
|             |             |   |  |  | 6 Briar   | y Close  | <u> </u>   |  |  |   |   |   |
| 1           | Living Room | W1  | Existing<br>Proposed   | 22.28<br>22.18   | 1.00  | YES  |  | *North*  |  |   | *North*   |   |
|             |             | W2  | Existing<br>Proposed   | 27.02<br>26.92   | 1.00  | YES  |  | *North*  |  |   | *North*   |   |
| 1           | Bedroom     | W1  | Existing<br>Proposed   | 28.78<br>28.68   | 1.00  | YES  |  | *North*  |  |   | *North*   |   |
| 2           | Bedroom     | W2  | Existing<br>Proposed   | 32.87<br>32.77   | 1.00  | YES  |  | *North*  |  |   | *North*   |   |
| 1<br>1<br>1 |             | Living Room Bedroom Living Room Bedroom Bedroom | Living Room W1<br>W2<br>Bedroom W1<br>Bedroom W2<br>Living Room W1<br>W2<br>Bedroom W1 | Living Room       W1       Existing         Proposed       W2       Existing         Proposed       W2       Existing         Bedroom       W1       Existing         Bedroom       W2       Existing         Proposed       W2       Existing         Bedroom       W2       Existing         Proposed       W2       Existing         Proposed       W2       Existing         Proposed       W2       Existing         Proposed       W2       Existing         Bedroom       W1       Existing         Proposed       W2       Existing         Proposed       W2       Existing         Proposed       W2       Existing         Proposed       W2       Existing         Proposed       W1       Existing     < | Proposed32.77Living RoomW1Existing<br>Proposed25.54<br>25.45<br>Existing<br>20.75BedroomW1Existing<br>Proposed31.54<br>21.75BedroomW1Existing<br>Proposed31.46BedroomW2Existing<br>Proposed27.56<br>27.49Living RoomW1Existing<br>Proposed22.18<br>2.18<br>2.18<br>ExistingLiving RoomW1Existing<br>Proposed22.18<br>2.18<br>2.18<br>2.18<br>2.18<br>2.12BedroomW1Existing<br>2.18<br>2.18<br>2.18<br>2.18<br>2.18<br>2.18<br>2.1328.78<br>2.16<br>2.13<br>2.13BedroomW1Existing<br>2.18<br>2.18<br>2.18<br>2.18<br>2.18<br>2.18<br>2.18<br>2.18<br>2.1328.78<br>2.13<br>2.13<br>2.14BedroomW2Existing<br>2.13<br>2.1328.78<br>2.13<br>2.13 | Proposed32.77Living RoomW1Existing<br>Proposed<br>25.451.00<br>Proposed<br>20.75BedroomW1Existing<br>Proposed<br>31.461.00<br>1.00BedroomW1Existing<br>Proposed<br>27.491.00<br>1.00BedroomW2Existing<br>Proposed<br>27.491.00<br>1.00Living RoomW1Existing<br>Proposed<br>27.491.00<br>1.00Living RoomW1Existing<br>Proposed<br>26.921.00<br>1.00BedroomW1Existing<br>Proposed<br>26.921.00<br>1.00BedroomW1Existing<br>Proposed<br>26.921.00<br> | Proposed32.77Living RoomW1Existing<br>Proposed<br>25.451.00YESW2Proposed<br>Existing<br>Proposed<br>20.751.00YESBedroomW1Existing<br>Proposed<br>31.461.00YESBedroomW2Existing<br>Proposed<br>27.491.00YESBedroomW2Existing<br>Proposed<br>27.491.00YESLiving RoomW1Existing<br>Existing<br>Proposed<br>27.491.00YESBedroomW1Existing<br>Existing<br>Proposed<br>26.921.00YESBedroomW1Existing<br>Proposed<br>26.921.00YESBedroomW1Existing<br>Proposed<br>28.681.00YESBedroomW2Existing<br>Proposed<br>28.681.00YESBedroomW2Existing<br>Proposed<br>28.681.00YESBedroomW2Existing<br>Proposed<br>28.681.00YES | Proposed         32.77         43.00           Living Room         W1         Existing         25.54         1.00         YES         28.00           W2         Existing         20.83         1.00         YES         28.00         11.00           Bedroom         W1         Existing         20.75         1.00         YES         43.00           Bedroom         W1         Existing         31.54         1.00         YES         43.00           Bedroom         W2         Existing         27.56         1.00         YES         31.00           Bedroom         W2         Existing         27.56         1.00         YES         31.00           Living Room         W1         Existing         27.49         1.00         YES         31.00           Living Room         W1         Existing         27.22         1.00         YES         YES | Proposed         32.77         43.00           Living Room         W1         Existing         25.54         1.00         YES         28.00         1.00           W2         Existing         20.83         1.00         YES         28.00         1.00           Bedroom         W1         Existing         20.75         1.00         YES         43.00         1.00           Bedroom         W1         Existing         31.54         1.00         YES         43.00         1.00           Bedroom         W2         Existing         27.56         1.00         YES         31.00         1.00           Bedroom         W2         Existing         27.49         1.00         YES         31.00         1.00           W2         Existing         27.26         1.00         YES         *North*           W2         Existing         27.29         1.00         YES         *North*           W2         Existing         2.2.18         1.00         YES         *North*           W2         Existing         2.0.2         1.00         YES         *North*           Bedroom         W1         Existing         28.78         1.00         YES <td>Proposed         32.77         43.00           Living Room         W1         Existing<br/>Proposed         25.54<br/>26.55         1.00         YES         28.00<br/>28.00         1.00         YES           Bedroom         W1         Existing<br/>Proposed         20.75         1.00         YES         43.00         1.00         YES           Bedroom         W1         Existing<br/>Proposed         31.54         1.00         YES         43.00         1.00         YES           Bedroom         W2         Existing<br/>Proposed         27.56         1.00         YES         31.00         1.00         YES           Bedroom         W2         Existing<br/>Proposed         27.49         1.00         YES         31.00         1.00         YES           Living Room         W1         Existing<br/>Proposed         27.49         1.00         YES         *North*           Living Room         W1         Existing<br/>Proposed         27.02         1.00         YES         *North*           Bedroom         W1         Existing<br/>Proposed         28.68         1.00         YES         *North*           Bedroom         W2         Existing<br/>Proposed         28.78         1.00         YES         *North*  <td>Proposed         32.77         43.00         15.00           Living Room         W1         Existing         25.54         1.00         YES         28.00         1.00         YES         1.00           W2         Existing         20.75         1.00         YES         28.00         1.00         YES         1.00           Bedroom         W1         Existing         20.75         1.00         YES         43.00         1.00         YES         0.00           Bedroom         W1         Existing         31.54         1.00         YES         43.00         1.00         YES         12.00           Bedroom         W2         Existing         27.56         1.00         YES         31.00         1.00         YES         3.00           Bedroom         W2         Existing         27.26         1.00         YES         *North*         3.00           Living Room         W1         Existing         22.02         1.00         YES         *North*         *North*           W2         Existing         22.02         1.00         YES         *North*         *North*           W2         Existing         28.78         1.00         YES         *No</td><td>Proposed         32.77         43.00         15.00           Living Room         W1         Existing<br/>Proposed         25.54<br/>25.45<br/>26.45         1.00         YES         28.00<br/>28.00         1.00         YES         1.00<br/>1.00         1.00           Bedroom         W1         Existing<br/>Proposed         31.54         1.00         YES         43.00         1.00         YES         12.00         1.00           Bedroom         W1         Existing<br/>Proposed         31.54         1.00         YES         43.00         1.00         YES         12.00         1.00           Bedroom         W1         Existing<br/>Proposed         27.56         1.00         YES         31.00         1.00         YES         3.00         1.00           Bedroom         W2         Existing<br/>Proposed         27.49         1.00         YES         31.00         1.00         YES         3.00         1.00           Living Room         W1         Existing<br/>W2         22.28         1.00         YES         *North*         *North*         *North*           Bedroom         W1         Existing<br/>Proposed         28.68         1.00         YES         *North*         *North*         *North*</td></td> | Proposed         32.77         43.00           Living Room         W1         Existing<br>Proposed         25.54<br>26.55         1.00         YES         28.00<br>28.00         1.00         YES           Bedroom         W1         Existing<br>Proposed         20.75         1.00         YES         43.00         1.00         YES           Bedroom         W1         Existing<br>Proposed         31.54         1.00         YES         43.00         1.00         YES           Bedroom         W2         Existing<br>Proposed         27.56         1.00         YES         31.00         1.00         YES           Bedroom         W2         Existing<br>Proposed         27.49         1.00         YES         31.00         1.00         YES           Living Room         W1         Existing<br>Proposed         27.49         1.00         YES         *North*           Living Room         W1         Existing<br>Proposed         27.02         1.00         YES         *North*           Bedroom         W1         Existing<br>Proposed         28.68         1.00         YES         *North*           Bedroom         W2         Existing<br>Proposed         28.78         1.00         YES         *North* <td>Proposed         32.77         43.00         15.00           Living Room         W1         Existing         25.54         1.00         YES         28.00         1.00         YES         1.00           W2         Existing         20.75         1.00         YES         28.00         1.00         YES         1.00           Bedroom         W1         Existing         20.75         1.00         YES         43.00         1.00         YES         0.00           Bedroom         W1         Existing         31.54         1.00         YES         43.00         1.00         YES         12.00           Bedroom         W2         Existing         27.56         1.00         YES         31.00         1.00         YES         3.00           Bedroom         W2         Existing         27.26         1.00         YES         *North*         3.00           Living Room         W1         Existing         22.02         1.00         YES         *North*         *North*           W2         Existing         22.02         1.00         YES         *North*         *North*           W2         Existing         28.78         1.00         YES         *No</td> <td>Proposed         32.77         43.00         15.00           Living Room         W1         Existing<br/>Proposed         25.54<br/>25.45<br/>26.45         1.00         YES         28.00<br/>28.00         1.00         YES         1.00<br/>1.00         1.00           Bedroom         W1         Existing<br/>Proposed         31.54         1.00         YES         43.00         1.00         YES         12.00         1.00           Bedroom         W1         Existing<br/>Proposed         31.54         1.00         YES         43.00         1.00         YES         12.00         1.00           Bedroom         W1         Existing<br/>Proposed         27.56         1.00         YES         31.00         1.00         YES         3.00         1.00           Bedroom         W2         Existing<br/>Proposed         27.49         1.00         YES         31.00         1.00         YES         3.00         1.00           Living Room         W1         Existing<br/>W2         22.28         1.00         YES         *North*         *North*         *North*           Bedroom         W1         Existing<br/>Proposed         28.68         1.00         YES         *North*         *North*         *North*</td> | Proposed         32.77         43.00         15.00           Living Room         W1         Existing         25.54         1.00         YES         28.00         1.00         YES         1.00           W2         Existing         20.75         1.00         YES         28.00         1.00         YES         1.00           Bedroom         W1         Existing         20.75         1.00         YES         43.00         1.00         YES         0.00           Bedroom         W1         Existing         31.54         1.00         YES         43.00         1.00         YES         12.00           Bedroom         W2         Existing         27.56         1.00         YES         31.00         1.00         YES         3.00           Bedroom         W2         Existing         27.26         1.00         YES         *North*         3.00           Living Room         W1         Existing         22.02         1.00         YES         *North*         *North*           W2         Existing         22.02         1.00         YES         *North*         *North*           W2         Existing         28.78         1.00         YES         *No | Proposed         32.77         43.00         15.00           Living Room         W1         Existing<br>Proposed         25.54<br>25.45<br>26.45         1.00         YES         28.00<br>28.00         1.00         YES         1.00<br>1.00         1.00           Bedroom         W1         Existing<br>Proposed         31.54         1.00         YES         43.00         1.00         YES         12.00         1.00           Bedroom         W1         Existing<br>Proposed         31.54         1.00         YES         43.00         1.00         YES         12.00         1.00           Bedroom         W1         Existing<br>Proposed         27.56         1.00         YES         31.00         1.00         YES         3.00         1.00           Bedroom         W2         Existing<br>Proposed         27.49         1.00         YES         31.00         1.00         YES         3.00         1.00           Living Room         W1         Existing<br>W2         22.28         1.00         YES         *North*         *North*         *North*           Bedroom         W1         Existing<br>Proposed         28.68         1.00         YES         *North*         *North*         *North* |

| Floor<br>Ref. | Room<br>Ref. | Room Use.    | Window<br>Ref. |                      | VSC            | Pr/Ex   | Meets<br>BRE<br>Guidance | Annual | Pr/Ex   | Meets<br>BRE<br>Guidance | Winter | Pr/Ex   | Meets<br>BRE<br>Guidance |
|---------------|--------------|--------------|----------------|----------------------|----------------|---------|--------------------------|--------|---------|--------------------------|--------|---------|--------------------------|
|               |              |              |                |                      |                | 7 Briar | y Close                  |        |         |                          |        |         |                          |
| 1st           | R1           | Living Room  | W1             | Existing             | 30.62          | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |              | W2             | Proposed<br>Existing | 30.51<br>31.29 | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |              | WZ             | Proposed             | 31.18          | 1.00    | 115                      |        | North   |                          |        | NOTIT   |                          |
| 2nd           | R1           | Bedroom      | W1             | Existing             | 34.26          | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |              |                | Proposed             | 34.16          |         |                          |        |         |                          |        |         |                          |
|               | R2           | Bedroom      | W2             | Existing             | 34.21          | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |              |                | Proposed             | 34.10          |         |                          |        |         |                          |        |         |                          |
|               |              |              |                |                      |                | 8 Briai | y Close                  |        |         |                          |        |         |                          |
| Gnd           | R1           | Utility Room | W1             | Existing             | 29.62          | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |              |                | Proposed             | 29.50          |         |                          |        |         |                          |        |         |                          |
| 1st           | R1           | Living Room  | W1             | Existing             | 32.19          | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |              | W2             | Proposed<br>Existing | 32.07<br>32.28 | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |              |                | Proposed             | 32.15          |         |                          |        |         |                          |        |         |                          |
| 2nd           | R1           | Bedroom      | W1             | Existing             | 34.51          | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |              |                | Proposed             | 34.38          |         |                          |        |         |                          |        |         |                          |
|               | R2           | Bedroom      | W2             | Existing             | 34.40          | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |              |                | Proposed             | 34.28          |         |                          |        |         |                          |        |         |                          |
|               |              |              |                |                      |                | 9 Briai | y Close                  |        |         |                          |        |         |                          |
| 1st           | R1           | Living Room  | W1             | Existing<br>Proposed | 32.20<br>32.07 | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |              | W2             | Existing             | 32.07          | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |              |                | Proposed             | 31.98          |         |                          |        |         |                          |        |         |                          |
| 2nd           | R1           | Bedroom      | W1             | Existing             | 34.38          | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |              |                | Proposed             | 34.25          |         |                          |        |         |                          |        |         |                          |
|               | R2           | Bedroom      | W2             | Existing             | 34.20          | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |              |                | Proposed             | 34.07          |         |                          |        |         |                          |        |         |                          |
|               |              |              |                |                      |                |         |                          |        |         |                          |        |         |                          |

| Floor<br>Ref. | Room<br>Ref. | Room Use.   | Window<br>Ref. |                                  | vsc                     | Pr/Ex   | Meets<br>BRE<br>Guidance | Annual   | Pr/Ex   | Meets<br>BRE<br>Guidance | Winter | Pr/Ex   | Meets<br>BRE<br>Guidance |
|---------------|--------------|-------------|----------------|----------------------------------|-------------------------|---------|--------------------------|----------|---------|--------------------------|--------|---------|--------------------------|
|               |              |             |                |                                  |                         | 10 Bria | ry Close                 |          |         |                          |        |         |                          |
| Gnd           | R1           | Bedroom     | W1             | Existing<br>Proposed             | 29.30<br>29.16          | 0.99    | YES                      |          | *North* |                          |        | *North* |                          |
| 1st           | R1           | Living Room | W1             | Existing                         | 31.75                   | 1.00    | YES                      |          | *North* |                          |        | *North* |                          |
|               |              |             | W2             | Proposed<br>Existing<br>Proposed | 31.61<br>31.54<br>31.39 | 1.00    | YES                      |          | *North* |                          |        | *North* |                          |
| 2nd           | R1           | Bedroom     | W1             | Existing<br>Proposed             | 33.51<br>33.37          | 1.00    | YES                      |          | *North* |                          |        | *North* |                          |
|               | R2           | Bedroom     | W2             | Existing<br>Proposed             | 33.30<br>33.15          | 1.00    | YES                      |          | *North* |                          |        | *North* |                          |
|               |              |             |                |                                  |                         | 11 Bria | ry Close                 | <u> </u> |         |                          |        |         |                          |
| 1st           | R1           | Living Room | W1             | Existing<br>Proposed             | 31.39<br>31.24          | 1.00    | YES                      |          | *North* |                          |        | *North* |                          |
|               |              |             | W2             | Existing<br>Proposed             | 30.94<br>30.79          | 1.00    | YES                      |          | *North* |                          |        | *North* |                          |
| 2nd           | R1           | Bedroom     | W1             | Existing<br>Proposed             | 32.94<br>32.79          | 1.00    | YES                      |          | *North* |                          |        | *North* |                          |
|               | R2           | Bedroom     | W2             | Existing<br>Proposed             | 32.56<br>32.42          | 1.00    | YES                      |          | *North* |                          |        | *North* |                          |
|               |              |             |                |                                  |                         | 12 Bria | ry Close                 |          |         |                          |        |         |                          |
| Gnd           | R1           | Kitchen     | W1             | Existing<br>Proposed             | 26.08<br>25.93          | 0.99    | YES                      |          | *North* |                          |        | *North* |                          |
| 1st           | R1           | Living Room | W1             | Existing<br>Proposed             | 29.60                   | 1.00    | YES                      |          | *North* |                          |        | *North* |                          |
|               |              |             | W2             | Existing<br>Proposed             | 29.45<br>29.36<br>29.22 | 1.00    | YES                      |          | *North* |                          |        | *North* |                          |
| 2nd           | R1           | Bedroom     | W1             | Existing<br>Proposed             | 31.82<br>31.68          | 1.00    | YES                      |          | *North* |                          |        | *North* |                          |
|               | R2           | Bedroom     | W2             | Existing<br>Proposed             | 31.43<br>31.30          | 1.00    | YES                      |          | *North* |                          |        | *North* |                          |

| Floor<br>Ref. | Room<br>Ref. | Room Use.   | Window<br>Ref. |                      | VSC            | Pr/Ex   | Meets<br>BRE<br>Guidance | Annual | Pr/Ex   | Meets<br>BRE<br>Guidance | Winter | Pr/Ex   | Meets<br>BRE<br>Guidance |
|---------------|--------------|-------------|----------------|----------------------|----------------|---------|--------------------------|--------|---------|--------------------------|--------|---------|--------------------------|
|               |              |             |                |                      |                | 13 Bria | ry Close                 |        |         |                          |        |         |                          |
| 1st           | R1           | Living Room | W1             | Existing             | 26.80          | 0.99    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |             | W2             | Proposed<br>Existing | 26.66<br>23.57 | 0.99    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |             |                | Proposed             | 23.43          |         |                          |        |         |                          |        |         |                          |
| 2nd           | R1           | Bedroom     | W1             | Existing<br>Proposed | 30.22<br>30.09 | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |             |                | rioposeu             | 30.05          |         |                          |        |         |                          |        |         |                          |
|               | R2           | Bedroom     | W2             | Existing<br>Proposed | 28.10<br>27.97 | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |             |                |                      |                |         |                          |        |         |                          |        |         |                          |
|               |              |             |                |                      |                | 14 Bria | ry Close                 |        |         |                          |        |         |                          |
| 1st           | R1           | Living Room | W1             | Existing             | 24.29          | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |             | W2             | Proposed<br>Existing | 24.28<br>29.20 | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |             |                | Proposed             | 29.20          |         |                          |        |         |                          |        |         |                          |
| 2nd           | R1           | Bedroom     | W1             | Existing             | 32.50          | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |             |                | Proposed             | 32.48          |         |                          |        |         |                          |        |         |                          |
|               | R2           | Bedroom     | W2             | Existing             | 34.63          | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |             |                | Proposed             | 34.63          |         |                          |        |         |                          |        |         |                          |
|               |              |             |                |                      |                | 15 Bria | ry Close                 |        |         |                          |        |         |                          |
| 1st           | R1           | Living Room | W1             | Existing             | 32.28          | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |             | W2             | Proposed<br>Existing | 32.25<br>33.22 | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |             | ~~~            | Proposed             | 33.22          | 1.00    | 125                      |        | North   |                          |        | North   |                          |
| 2nd           | R1           | Bedroom     | W1             | Existing             | 36.04          | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |             |                | Proposed             | 36.01          |         |                          |        |         |                          |        |         |                          |
|               | R2           | Bedroom     | W2             | Existing             | 36.37          | 1.00    | YES                      |        | *North* |                          |        | *North* |                          |
|               |              |             |                | Proposed             | 36.37          |         |                          |        |         |                          |        |         |                          |
|               |              |             |                |                      |                |         |                          |        |         |                          |        |         |                          |

| Room<br>Ref. | Room Use.            | Window<br>Ref.   |  | VSC   | Pr/Ex   | Meets<br>BRE<br>Guidance  | Annual  | Pr/Ex  | Meets<br>BRE<br>Guidance  | Winter   | Pr/Ex  | Meets<br>BRE<br>Guidance   |
|--------------|----------------------|--|--|---|---|---|---|--|---|--|--|--|
|              |                      |  |  |   | 16 Bria   | ry Close  |   |  |   |  |  |  |
| R1           | Living Room          | W1   | Existing<br>Proposed   | 34.10<br>34.06  | 1.00  | YES   |   | *North*  |   |  | *North*  |  |
|              |                      | W2   | Existing<br>Proposed   | 34.35<br>34.34  | 1.00  | YES   |   | *North*  |   |  | *North*  |  |
| R1           | Bedroom              | W1   | Existing<br>Proposed   | 36.56<br>36.52  | 1.00  | YES   |   | *North*  |   |  | *North*  |  |
| R2           | Bedroom              | W2   | Existing<br>Proposed   | 36.70<br>36.69  | 1.00  | YES   |   | *North*  |   |  | *North*  |  |
|              |                      |  |  |   | 17 Bria   | ry Close  |   |  |   |  |  |  |
| R1           | Living Room          | W1   | Existing<br>Proposed   | 34.79<br>34.72  | 1.00  | YES   |   | *North*  |   |  | *North*  |  |
|              |                      | W2   | Existing<br>Proposed   | 34.53<br>34.49  | 1.00  | YES   |   | *North*  |   |  | *North*  |  |
| R1           | Bedroom              | W1   | Existing<br>Proposed   | 36.63<br>36.56  | 1.00  | YES   |   | *North*  |   |  | *North*  |  |
| R2           | Bedroom              | W2   | Existing<br>Proposed   | 36.69<br>36.66  | 1.00  | YES   |   | *North*  |   |  | *North*  |  |
|              | R1<br>R2<br>R1<br>R1 | R1     Living Room       R1     Bedroom       R2     Bedroom       R1     Living Room       R1     Bedroom | Ref.     Ref.       R1     Living Room     W1       W2     W2       R1     Bedroom     W1       R2     Bedroom     W2       R1     Living Room     W1       W2     W2     W2 | Ref.     Ref.       R1     Living Room     W1     Existing<br>Proposed       R1     Bedroom     W1     Existing<br>Proposed       R2     Bedroom     W2     Existing<br>Proposed       R1     Living Room     W1     Existing<br>Proposed       R1     Living Room     W1     Existing<br>Proposed       R1     Bedroom     W1     Existing<br>Proposed       R1     Bedroom     W1     Existing<br>Proposed       R1     Bedroom     W1     Existing<br>Proposed       R1     Bedroom     W1     Existing<br>Proposed       R2     Bedroom     W2     Existing | Ref.Ref.R1Living RoomW1Existing34.10Proposed34.06W2Existing34.35Proposed34.34Proposed34.34R1BedroomW1Existing36.56R2BedroomW2Existing36.70ProposedW2Existing36.69R1Living RoomW1Existing34.72R1BedroomW1Existing34.79Proposed34.72W2Existing34.53Proposed34.49Proposed34.49R1BedroomW1Existing36.63R2BedroomW2Existing36.56 | Ker.         Ker.         16 Brian           R1         Living Room         W1         Existing         34.10         1.00           Proposed         34.06         W2         Existing         34.35         1.00           R1         Bedroom         W1         Existing         36.56         1.00           R1         Bedroom         W1         Existing         36.56         1.00           R2         Bedroom         W2         Existing         36.70         1.00           Proposed         36.69         1.00         Proposed         34.72         1.00           R1         Living Room         W1         Existing         34.79         1.00           Proposed         34.72         W2         Existing         34.53         1.00           Proposed         34.49         1.00         Proposed         34.49         1.00           R1         Bedroom         W1         Existing         34.63         1.00           Proposed         34.49         1.00         Proposed         36.56         1.00           R1         Bedroom         W1         Existing         36.63         1.00           Proposed         36.56 | Ker.Ker.GuidanceI6 Briary CloseR1Living RoomW1Existing34.101.00YESProposed34.06W2Existing34.351.00YESR1BedroomW1Existing36.561.00YESR2BedroomW2Existing36.701.00YESR1Living RoomW1Existing36.701.00YESR1Living RoomW1Existing34.791.00YESR1Living RoomW1Existing34.731.00YESR1BedroomW1Existing34.531.00YESR1BedroomW1Existing36.631.00YESR1BedroomW1Existing36.631.00YESR1BedroomW2Existing36.631.00YESR2BedroomW2Existing36.691.00YES | Ker.GuidanceIb Briary CloseR1Living RoomW1Existing34.101.00YESProposed34.06W2Existing34.351.00YESR1BedroomW1Existing36.561.00YESR2BedroomW2Existing36.701.00YESIT Briary CloseR1Living RoomW1Existing34.791.00YESR1Living RoomW1Existing34.791.00YESR1BedroomW1Existing34.72YESProposed34.491.00YESProposedR1BedroomW1Existing34.531.00YESR1BedroomW1Existing36.631.00YESR1BedroomW1Existing36.631.00YESR2BedroomW2Existing36.631.00YESR2BedroomW2Existing36.631.00YESR1BedroomW1Existing36.631.00YESR2BedroomW2Existing36.691.00YES | Ref.         Ref.         Guidance           I6 Briary Close           R1         Living Room         W1         Existing         34.10         1.00         YES         *North*           Proposed         34.06         W2         Existing         34.35         1.00         YES         *North*           R1         Bedroom         W1         Existing         36.56         1.00         YES         *North*           R1         Bedroom         W1         Existing         36.56         1.00         YES         *North*           R2         Bedroom         W2         Existing         36.70         1.00         YES         *North*           R1         Living Room         W2         Existing         34.72         1.00         YES         *North*           R1         Living Room         W1         Existing         34.73         1.00         YES         *North*           R1         Living Room         W1         Existing         34.53         1.00         YES         *North*           R1         Bedroom         W1         Existing         36.63         1.00         YES         *North*           R1         Bedroom | Ker.Ker.GuidanceGuidanceGuidanceR1Living RoomW1Existing34.101.00YES*North*W2Existing34.351.00YES*North*R1BedroomW1Existing36.561.00YES*North*R2BedroomW2Existing36.701.00YES*North*Proposed36.691.00YES*North*R1Living RoomW1Existing34.791.00YES*North*R1Living RoomW1Existing34.791.00YES*North*R1BedroomW1Existing34.531.00YES*North*R1BedroomW1Existing36.631.00YES*North*R1BedroomW1Existing36.631.00YES*North*R1BedroomW1Existing36.631.00YES*North*R2BedroomW2Existing36.631.00YES*North* | Ker.         Guidance         Guidance           I6 Briary Close           R1         Living Room         W1         Existing<br>Proposed         34.10<br>34.35         1.00         YES         *North*           R1         Bedroom         W1         Existing<br>Proposed         36.56         1.00         YES         *North*           R1         Bedroom         W1         Existing<br>Proposed         36.52         1.00         YES         *North*           R2         Bedroom         W2         Existing<br>Proposed         36.69         1.00         YES         *North*           R1         Living Room         W1         Existing<br>Proposed         36.69         1.00         YES         *North*           R1         Living Room         W1         Existing<br>Proposed         34.72         *North*         *North*           W2         Existing<br>Proposed         34.39         1.00         YES         *North*           R1         Bedroom         W1         Existing<br>Proposed         36.53         1.00         YES         *North*           R1         Bedroom         W1         Existing<br>Proposed         36.56         1.00         YES         *North*           R2         B | Kef.         Kef.         Guidance         Guidance           I6 Briary Close           R1         Living Room         W1         Existing         34.10         1.00         YES         *North*         *North*           R1         Living Room         W1         Existing         34.35         1.00         YES         *North*         *North*           R1         Bedroom         W1         Existing         36.56         1.00         YES         *North*         *North*           R2         Bedroom         W2         Existing         36.70         1.00         YES         *North*         *North*           R1         Living Room         W1         Existing         36.70         1.00         YES         *North*         *North*           R2         Bedroom         W1         Existing         34.72         North*         *North*         *North*           R1         Living Room         W1         Existing         34.53         1.00         YES         *North*         *North*           R1         Bedroom         W1         Existing         36.63         1.00         YES         *North*         *North*           R1         Bedroom |

| Floor Ref. | Room Ref. | Room Use.   |                      | Room<br>Area   | Lit Area<br>Existing | Lit Area<br>Proposed     | Pr/Ex    | Meets<br>BRE<br>Guidanc |
|------------|-----------|-------------|----------------------|--|----------------------|--------------------------|----------|-------------------------|
|            |           |             | 1 Briary Clos        | se in the second se |                      |                          |          |                         |
| Gnd        | R1        | Living Room | Area m2              | 10.17  | 10.02                | 10.02                    |          |                         |
|            |           |             | % of room            |  | 98%                  | 98%                      | 100.00%  | YES                     |
| 1st        | R1        | Living Room | Area m2              | 21.70  | 21.38                | 21.38                    | 400.000/ |                         |
| Jad        | D1        | Dodroom     | % of room            | 7 24   | 99%                  | 99%                      | 100.00%  | YES                     |
| 2nd        | R1        | Bedroom     | Area m2<br>% of room | 7.34   | 7.18<br>98%          | 7.18<br><mark>98%</mark> | 100.000/ | VEC                     |
|            | R2        | Bedroom     | Area m2              | 9.92   | 98%                  | 9.58                     | 100.00%  | YES                     |
|            | RZ        | Beuloom     | % of room            | 9.92   | 9.38<br>97%          | 9.58<br>97%              | 100.00%  | YES                     |
|            |           |             | 2 Briary Clos        |  | 5770                 | 5776                     | 100.0078 | 125                     |
|            |           |             | Z Briary Clos        | e  |                      |                          |          |                         |
| Gnd        | R1        | Living Room | Area m2              | 10.17  | 9.98                 | 9.98                     |          |                         |
|            |           |             | % of room            |  | 98%                  | 98%                      | 100.00%  | YES                     |
| 1st        | R1        | Living Room | Area m2              | 21.75  | 21.47                | 21.47                    |          |                         |
|            |           |             | % of room            |  | 99%                  | 99%                      | 100.00%  | YES                     |
| 2nd        | R1        | Bedroom     | Area m2              | 9.92   | 9.62                 | 9.62                     |          |                         |
|            |           |             | % of room            |  | 97%                  | 97%                      | 100.00%  | YES                     |
|            | R2        | Bedroom     | Area m2              | 7.34   | 7.16                 | 7.16                     |          |                         |
|            |           |             | % of room            |  | 98%                  | 98%                      | 100.00%  | YES                     |
|            |           |             | 3 Briary Clos        | e  |                      |                          |          |                         |
| Gnd        | R1        | Living Room | Area m2              | 10.19  | 10.02                | 10.02                    |          |                         |
|            |           |             | % of room            |  | 98%                  | 98%                      | 100.00%  | YES                     |
| 1st        | R1        | Living Room | Area m2              | 21.70  | 21.41                | 21.41                    |          |                         |
|            |           |             | % of room            |  | 99%                  | 99%                      | 100.00%  | YES                     |
| 2nd        | R1        | Bedroom     | Area m2              | 7.34   | 7.18                 | 7.18                     | 400.000/ | VEC                     |
|            | 53        | Deducers    | % of room            | 0.02   | 98%                  | 98%                      | 100.00%  | YES                     |
|            | R2        | Bedroom     | Area m2              | 9.92   | 9.56                 | 9.56                     | 100.000/ | VEC                     |
|            |           |             | % of room            |  | 96%                  | 96%                      | 100.00%  | YES                     |
|            |           |             | 4 Briary Clos        | e  |                      |                          |          |                         |
| 1st        | R1        | Bedroom     | Area m2              | 21.75  | 21.43                | 21.43                    |          |                         |
|            |           |             | % of room            |  | 98%                  | 98%                      | 100.00%  | YES                     |
| 2nd        | R1        | Bedroom     | Area m2              | 9.92   | 9.74                 | 9.74                     |          |                         |
|            |           |             | % of room            |  | 98%                  | 98%                      | 100.00%  | YES                     |
|            | R2        | Bedroom     | Area m2              | 7.34   | 7.16                 | 7.16                     |          |                         |
|            |           |             | % of room            |  | 98%                  | 98%                      | 100.00%  | YES                     |
|            |           |             | 5 Briary Clos        | se   |                      |                          |          |                         |
| 1st        | R1        | Living Room | Area m2              | 21.70  | 21.36                | 21.36                    |          |                         |
|            |           |             | % of room            |  | 98%                  | 98%                      | 100.00%  | YES                     |
| 2nd        | R1        | Bedroom     | Area m2              | 7.34   | 7.18                 | 7.18                     |          |                         |
|            |           |             | % of room            |  | 98%                  | 98%                      | 100.00%  | YES                     |
|            | R2        | Bedroom     | Area m2              | 9.92   | 9.69                 | 9.69                     |          |                         |
|            |           |             | % of room            |  | 98%                  | 98%                      | 100.00%  | YES                     |

| Floor Ref. | Room Ref. | Room Use.    |                      | Room<br>Area   | Lit Area<br>Existing | Lit Area<br>Proposed     | Pr/Ex    | Meets<br>BRE<br>Guidance |
|------------|-----------|--------------|----------------------|--|----------------------|--------------------------|----------|--------------------------|
|            |           |              | 6 Briary Clos        | se in the second se |                      |                          |          |                          |
| 1st        | R1        | Living Room  | Area m2              | 21.70  | 21.27                | 21.27                    |          |                          |
|            |           |              | % of room            |  | 98%                  | 98%                      | 100.00%  | YES                      |
| 2nd        | R1        | Bedroom      | Area m2              | 7.34   | 7.19                 | 7.19                     | 400.000/ |                          |
|            | 52        | Deducers     | % of room<br>Area m2 | 0.02   | 98%                  | 98%                      | 100.00%  | YES                      |
|            | R2        | Bedroom      | % of room            | 9.92   | 9.73<br>98%          | 9.73<br><mark>98%</mark> | 100.00%  | YES                      |
|            |           |              |                      | <u> </u>   | 3870                 | 5870                     | 100.0078 | 1113                     |
|            |           |              | 7 Briary Clos        | se .   |                      |                          |          |                          |
| 1st        | R1        | Living Room  | Area m2              | 21.80  | 21.49                | 21.49                    |          |                          |
|            |           |              | % of room            |  | 99%                  | 99%                      | 100.00%  | YES                      |
| 2nd        | R1        | Bedroom      | Area m2              | 9.92   | 9.74                 | 9.74                     |          |                          |
|            |           |              | % of room            |  | 98%                  | 98%                      | 100.00%  | YES                      |
|            | R2        | Bedroom      | Area m2              | 7.34   | 7.17                 | 7.17                     |          |                          |
|            |           |              | % of room            |  | 98%                  | 98%                      | 100.00%  | YES                      |
|            |           |              | 8 Briary Clos        | e  |                      |                          |          |                          |
| Gnd        | R1        | Utility Room | Area m2              | 7.01   | 6.84                 | 6.84                     |          |                          |
|            |           |              | % of room            |  | 98%                  | 98%                      | 100.00%  | YES                      |
| 1st        | R1        | Living Room  | Area m2              | 21.70  | 21.43                | 21.43                    |          |                          |
|            |           |              | % of room            | 7.24   | 99%                  | 99%                      | 100.00%  | YES                      |
| 2nd        | R1        | Bedroom      | Area m2              | 7.34   | 7.19                 | 7.19                     | 100.000/ | VEC                      |
|            | R2        | Bedroom      | % of room<br>Area m2 | 9.92   | 98%<br>9.76          | <mark>98%</mark><br>9.76 | 100.00%  | YES                      |
|            | NZ        | Bedroom      | % of room            | 5.52   | 98%                  | 98%                      | 100.00%  | YES                      |
|            |           |              | 9 Briary Clos        | se   |                      |                          |          |                          |
| 1st        | R1        | Living Room  | Area m2              | 21.80  | 21.52                | 21.52                    |          |                          |
|            |           | 0            | % of room            |  | 99%                  | 99%                      | 100.00%  | YES                      |
| 2nd        | R1        | Bedroom      | Area m2              | 9.92   | 9.74                 | 9.74                     |          |                          |
|            |           |              | % of room            |  | 98%                  | 98%                      | 100.00%  | YES                      |
|            | R2        | Bedroom      | Area m2              | 7.34   | 7.18                 | 7.18                     |          |                          |
|            |           |              | % of room            |  | 98%                  | 98%                      | 100.00%  | YES                      |
|            |           |              | 10 Briary Clo        | se   |                      |                          |          |                          |
| Gnd        | R1        | Bedroom      | Area m2              | 13.01  | 12.93                | 12.93                    |          |                          |
|            |           |              | % of room            |  | 99%                  | 99%                      | 100.00%  | YES                      |
| 1st        | R1        | Living Room  | Area m2              | 21.70  | 21.41                | 21.41                    |          |                          |
|            |           |              | % of room            |  | 99%                  | 99%                      | 100.00%  | YES                      |
| 2nd        | R1        | Bedroom      | Area m2              | 7.34   | 7.20                 | 7.20                     |          |                          |
|            |           |              | % of room            |  | 98%                  | 98%                      | 100.00%  | YES                      |
|            | R2        | Bedroom      | Area m2              | 9.92   | 9.76                 | 9.76                     |          |                          |
|            |           |              | % of room            |  | 98%                  | 98%                      | 100.00%  | YES                      |

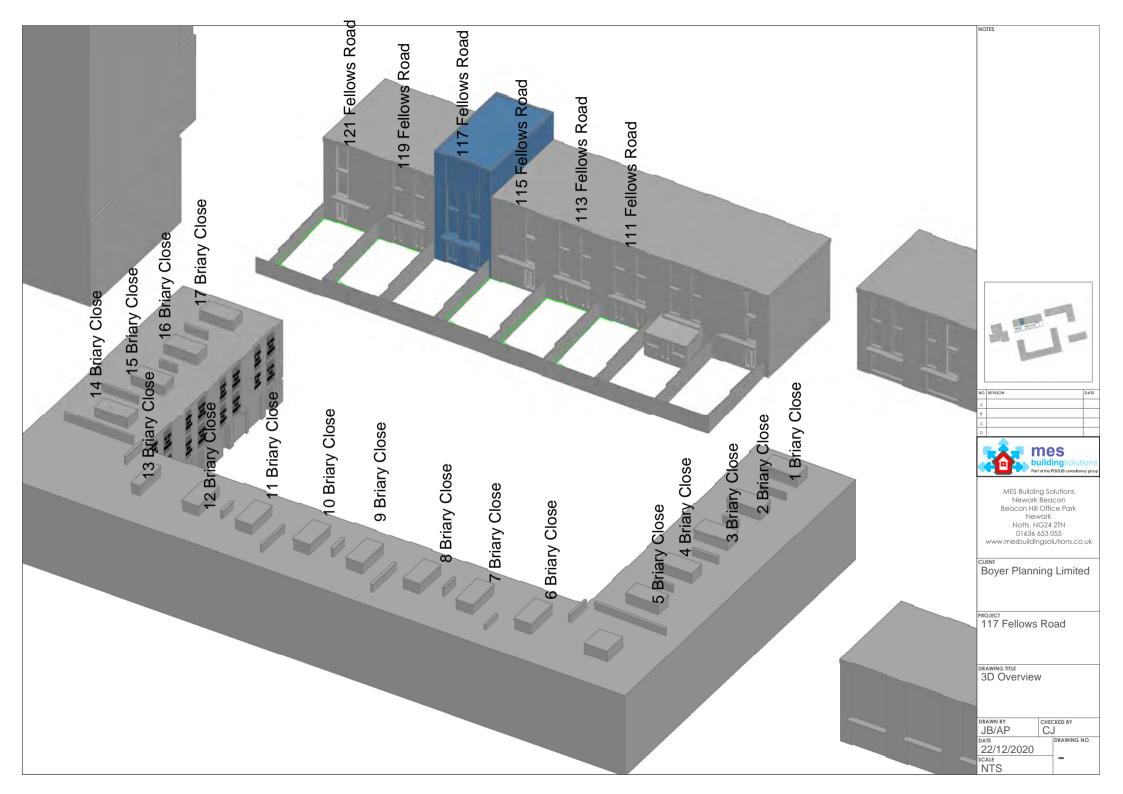
| Floor Ref. | Room Ref. | Room Use.   |                      | Room<br>Area | Lit Area<br>Existing | Lit Area<br>Proposed     | Pr/Ex    | Meets<br>BRE<br>Guidance |
|------------|-----------|-------------|----------------------|--------------|----------------------|--------------------------|----------|--------------------------|
|            |           |             | 11 Briary Clo        | se           |                      |                          |          |                          |
| 1st        | R1        | Living Room | Area m2              | 21.80        | 21.39                | 21.39                    |          |                          |
|            |           |             | % of room            |              | 98%                  | 98%                      | 100.00%  | YES                      |
| 2nd        | R1        | Bedroom     | Area m2              | 9.92         | 9.67                 | 9.67                     |          |                          |
|            |           |             | % of room            |              | 98%                  | 98%                      | 100.00%  | YES                      |
|            | R2        | Bedroom     | Area m2              | 7.34         | 7.17                 | 7.17                     |          |                          |
|            |           |             | % of room            |              | 98%                  | 98%                      | 100.00%  | YES                      |
|            |           |             | 12 Briary Clo        | se           |                      |                          |          |                          |
| Gnd        | R1        | Kitchen     | Area m2              | 13.71        | 13.61                | 13.61                    |          |                          |
| Gild       | NI        | Ritefield   | % of room            | 15.71        | 99%                  | 99%                      | 100.00%  | YES                      |
| 1st        | R1        | Living Room | Area m2              | 21.70        | 21.39                | 21.39                    | 100.0070 | TLJ                      |
| 150        | ni -      |             | % of room            | 21.70        | 99%                  | 99%                      | 100.00%  | YES                      |
| 2nd        | R1        | Bedroom     | Area m2              | 7.34         | 7.09                 | 7.09                     | 100.0070 | 125                      |
| 2.114      |           | Dearboin    | % of room            | 7.51         | 97%                  | 97%                      | 100.00%  | YES                      |
|            | R2        | Bedroom     | Area m2              | 9.92         | 9.78                 | 9.78                     | 20010070 | . 20                     |
|            |           | 200.00      | % of room            | 0.01         | 99%                  | 99%                      | 100.00%  | YES                      |
|            |           |             | 13 Briary Clo        | r            |                      |                          |          |                          |
| 1st        | R1        | Living Room | Area m2              | 21.80        | 21.18                | 21.18                    | 100.000/ | VEC                      |
| Que d      | D1        | Deducers    | % of room            | 0.02         | 97%                  | 97%                      | 100.00%  | YES                      |
| 2nd        | R1        | Bedroom     | Area m2              | 9.92         | 9.45                 | 9.45                     | 100.000/ | VEC                      |
|            | R2        | Bedroom     | % of room<br>Area m2 | 7.34         | 95%<br>7.15          | <mark>95%</mark><br>7.15 | 100.00%  | YES                      |
|            | RZ        | Beuloom     | % of room            | 7.54         | 98%                  | 98%                      | 100.00%  | YES                      |
|            |           |             | 14 Briary Clo        | se           | 5670                 | 5676                     | 100.0076 | TES                      |
|            |           |             | -                    | r            |                      |                          |          |                          |
| 1st        | R1        | Living Room | Area m2              | 21.70        | 21.35                | 21.35                    |          |                          |
|            |           |             | % of room            |              | 98%                  | 98%                      | 100.00%  | YES                      |
| 2nd        | R1        | Bedroom     | Area m2              | 7.34         | 7.19                 | 7.19                     |          |                          |
|            |           |             | % of room            |              | 98%                  | 98%                      | 100.00%  | YES                      |
|            | R2        | Bedroom     | Area m2              | 9.92         | 9.75                 | 9.75                     | 100.000/ |                          |
|            |           |             | % of room            |              | 98%                  | 98%                      | 100.00%  | YES                      |
|            |           |             | 15 Briary Clo        | se           |                      |                          |          |                          |
| 1st        | R1        | Living Room | Area m2              | 21.80        | 21.51                | 21.51                    |          |                          |
|            |           |             | % of room            |              | 99%                  | 99%                      | 100.00%  | YES                      |
| 2nd        | R1        | Bedroom     | Area m2              | 9.92         | 9.78                 | 9.78                     |          |                          |
|            |           |             | % of room            |              | 99%                  | 99%                      | 100.00%  | YES                      |
|            | R2        | Bedroom     | Area m2              | 7.34         | 7.20                 | 7.20                     |          |                          |
|            |           |             | % of room            |              | 98%                  | 98%                      | 100.00%  | YES                      |

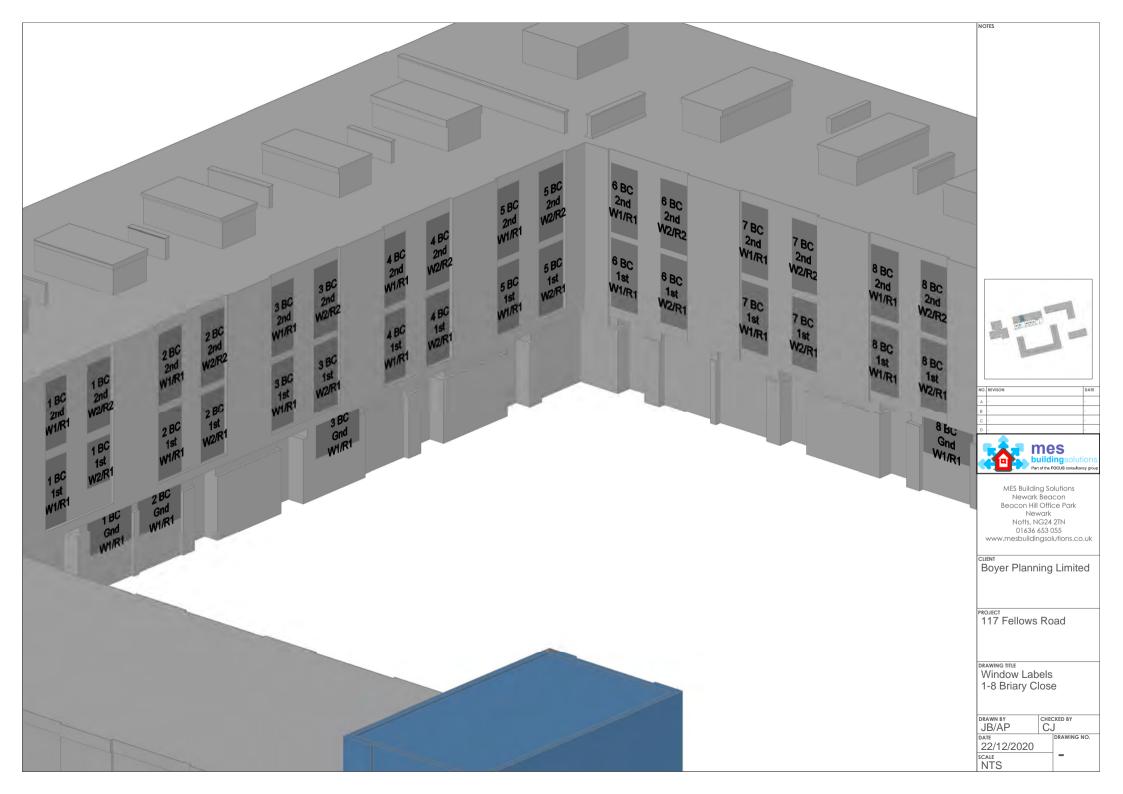
| Floor Ref. | Room Ref. | Room Use.   |               | Room<br>Area | Lit Area<br>Existing | Lit Area<br>Proposed | Pr/Ex   | Meets<br>BRE<br>Guidance |
|------------|-----------|-------------|---------------|--------------|----------------------|----------------------|---------|--------------------------|
|            |           |             | 16 Briary Clo | se           |                      |                      |         |                          |
| 1st        | R1        | Living Room | Area m2       | 21.86        | 21.56                | 21.56                |         |                          |
|            |           |             | % of room     |              | 99%                  | 99%                  | 100.00% | YES                      |
| 2nd        | R1        | Bedroom     | Area m2       | 7.34         | 7.19                 | 7.19                 |         |                          |
|            |           |             | % of room     |              | 98%                  | 98%                  | 100.00% | YES                      |
|            | R2        | Bedroom     | Area m2       | 9.92         | 9.77                 | 9.77                 |         |                          |
|            |           |             | % of room     |              | 99%                  | 99%                  | 100.00% | YES                      |
|            |           |             | 17 Briary Clo | se           |                      |                      |         |                          |
| 1st        | R1        | Living Room | Area m2       | 21.80        | 21.46                | 21.46                |         |                          |
|            |           |             | % of room     |              | 98%                  | 98%                  | 100.00% | YES                      |
| 2nd        | R1        | Bedroom     | Area m2       | 9.92         | 9.76                 | 9.76                 |         |                          |
|            |           |             | % of room     |              | 98%                  | 98%                  | 100.00% | YES                      |
|            | R2        | Bedroom     | Area m2       | 7.34         | 7.20                 | 7.20                 |         |                          |
|            |           |             | % of room     |              | 98%                  | 98%                  | 100.00% | YES                      |

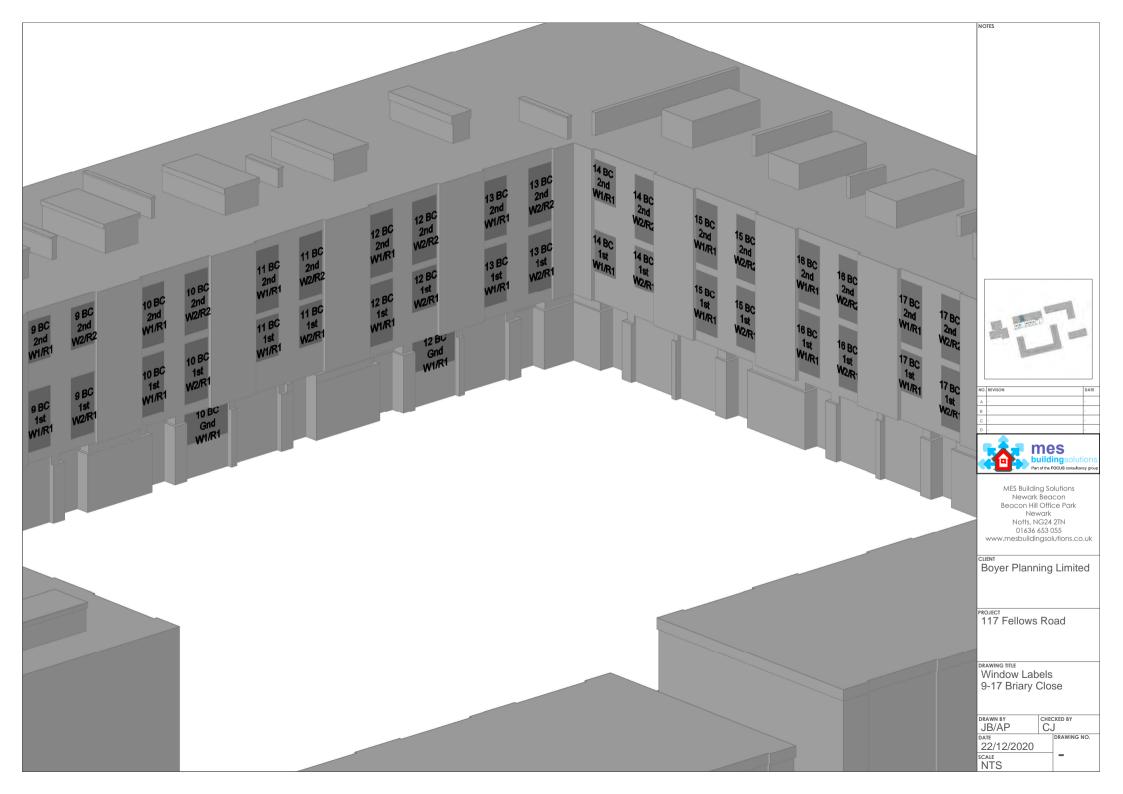
| Project Name: 2012<br>Report Title: Two ho<br>Date of Analysis: 22 | ours Sunligh    |                       | · Neighbou      | r Analysis           |                           |       |                       |
|--|-----------------|-----------------------|-----------------|----------------------|---------------------------|-------|-----------------------|
| Floor<br>Ref.  | Amenity<br>Ref. |                       | Amenity<br>Area | Lit Area<br>Existing | Lit Area<br>Proposed      | Pr/Ex | Meets BRE<br>Guidance |
|  |                 | 1                     | 11 Fellow       | s Road               |                           |       |                       |
| Gnd  | A1              | Area m2<br>Percentage | 51.87           | 44.88<br>87%         | 44.88<br><mark>87%</mark> | 1.00  | YES                   |
|  |                 | 1                     | 13 Fellow       | s Road               |                           |       |                       |
| Gnd  | A1              | Area m2<br>Percentage | 53.68           | 46.13<br>86%         | 46.13<br><mark>86%</mark> | 1.00  | YES                   |
|  |                 | 1                     | 15 Fellow       | s Road               |                           |       |                       |
| Gnd  | A1              | Area m2<br>Percentage | 55.40           | 46.36<br>84%         | 46.36<br><mark>84%</mark> | 1.00  | YES                   |
|  |                 | 1                     | 19 Fellow       | s Road               |                           |       |                       |
| Gnd  | A1              | Area m2<br>Percentage | 54.30           | 45.09<br>83%         | 45.09<br><mark>83%</mark> | 1.00  | YES                   |
|  |                 | 1                     | 21 Fellow       | s Road               |                           |       |                       |
| Gnd  | A1              | Area m2<br>Percentage | 53.78           | 46.31<br>86%         | 46.31<br><mark>86%</mark> | 1.00  | YES                   |

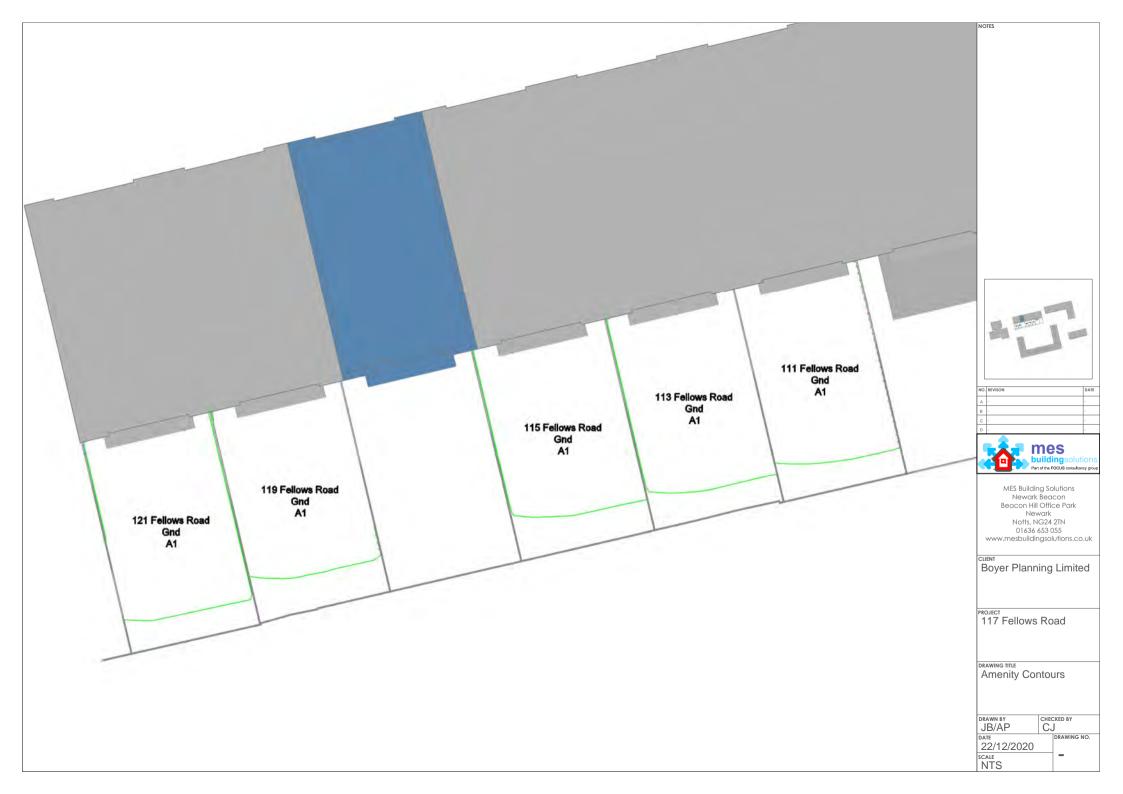
Window & Room References:











# 9. Notes

- 9.1 This report has been prepared for the sole use of the Client. No representation or warranty (expressed or implied) is given to any other parties. Therefore this report should not be relied upon by any third party and we accept no liability from the use of this report by any other party.
- 9.2 Where full access was not available we have made reasonable estimations of internal layouts, floor areas, window sizes and positions etc.
- 3.3 Our calculations model has been built from a combination of architect's plans, partial site survey, site and aerial photographs.
- 9.4 We are not aware of any conflicts of interest between ourselves and any other party concerning this project.

