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**Daylight and Sunlight Report (Within Development)
Chapel Gate (Car Park 14), Basildon
Essex SS15 5AB**

8 April 2021

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1 EXECUTIVE SUMMARY

1.1 Overview

- 1.1.1 Right of Light Consulting has been commissioned by Sempra Homes Ltd to undertake a daylight and sunlight study in connection with the development at Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB. The aim of the study is to check whether or not the proposed habitable rooms receive satisfactory levels of daylight and sunlight.
- 1.1.2 The study is based on the numerical tests laid down in the Building Research Establishment (BRE) guide 'Site Layout Planning for Daylight and Sunlight: a good practice guide, 2nd Edition' by P J Littlefair 2011.
- 1.1.3 Appendix 1 identifies the windows analysed in this study. The numerical test results (including all calculation workings) are provided in Appendix 2. No sky line contours are presented in Appendix 1.
- 1.1.4 The numerical results demonstrate that the proposed development design achieves a very high level of compliance with the BRE recommendations. Whilst a very small number of rooms do not meet the recommendations, the results are not unusual given the constraints of the site. In our professional opinion, the proposed design will provide the development's future occupiers with adequate levels of natural light.

2 INFORMATION SOURCES

2.1 Documents Considered

2.1.1 This report is based on the following drawings:

BPTW Architecture

CPK-BPTW-08-ZZ-DR-A-2001	Site Elevation 01 - Existing and Proposed	Rev C01
CPK-BPTW-08-ZZ-DR-A-2002	Site Elevation 02 - Existing and Proposed	Rev C01
CPK-BPTW-08-ZZ-DR-A-2003	Site Elevation 03 - Existing and Proposed	Rev C01
CPK-BPTW-08-ZZ-DR-A-2004	Site Elevation 04 - Existing and Proposed	Rev C01
CPK-BPTW-08-ZZ-DR-A-2005	Site Elevation 05 & 06 - Existing and Proposed	Rev C01
CPK-BPTW-08-00-DR-A-0102	Site Ground Floor Plan	Rev C01
CPK-BPTW-08-00-DR-A-0106	Site Proposed Ground Finished Floor Levels Plan	Rev C01
CPK-BPTW-08-ZZ-DR-A-0103	Site Typical Floor Plan	Rev C01
CPK-BPTW-08-ZZ-DR-A-0104	Site Upper Floor Plan	Rev C01
CPK-BPTW-08-ZZ-DR-A-0105	Site Roof Floor Plan	Rev C01
CPK-BPTW-10-00-DR-A-1000	Block A – Ground Floor Plan	Rev C01
CPK-BPTW-10-01-DR-A-1001	Block A - Typical Floor Plan (1st to 4th Floor)	Rev C01
CPK-BPTW-10-01-DR-A-1005	Block A - Roof Plan	Rev C01
CPK-BPTW-10-ZZ-DR-A-2010	Block A Elevation - North	Rev C01
CPK-BPTW-10-ZZ-DR-A-2011	Block A Elevation – East	Rev C01
CPK-BPTW-10-ZZ-DR-A-2012	Block A Elevation - South	Rev C01
CPK-BPTW-10-ZZ-DR-A-2013	Block A Elevation – West	Rev C01
CPK-BPTW-11-00-DR-A-1010	Block B – Ground Floor Plan	Rev C01
CPK-BPTW-11-01-DR-A-1011	Block B - Typical Floor Plan (1st to 6th Floor)	Rev C01
CPK-BPTW-11-07-DR-A-1017	Block B - Seventh Floor Plan	Rev C01
CPK-BPTW-11-08-DR-A-1018	Block B - Roof Plan	Rev C01
CPK-BPTW-11-ZZ-DR-A-2020	Block B Elevation - North	Rev C01
CPK-BPTW-11-ZZ-DR-A-2021	Block B Elevation - East	Rev C01
CPK-BPTW-11-ZZ-DR-A-2022	Block B Elevation - South	Rev C01
CPK-BPTW-11-ZZ-DR-A-2023	Block B Elevation - West	Rev C01
CPK-BPTW-12-00-DR-A-1020	Block C - Ground Floor Plan	Rev C01
CPK-BPTW-12-06-DR-A-1026	Block C - Roof Plan	Rev C01
CPK-BPTW-12-ZZ-DR-A-2030	Block C Elevation – North	Rev C01
CPK-BPTW-12-ZZ-DR-A-2031	Block C Elevation - East	Rev C01
CPK-BPTW-12-ZZ-DR-A-2032	Block C Elevation – South	Rev C01
CPK-BPTW-12-ZZ-DR-A-2033	Block C Elevation -West	Rev C01
CPK-BPTW-13-00-DR-A-1030	Block D - Ground Floor Plan	Rev C01
CPK-BPTW-13-ZZ-DR-A-1031	Block D – Typical Floor Plan (1st to 6 th Floor Plan)	Rev C01

CPK-BPTW-13-07-DR-A-1037	Block D - Roof Plan	Rev C01
CPK-BPTW-14-00-DR-A-1040	Block E – Ground Floor Plan	Rev C01
CPK-BPTW-14-ZZ-DR-A-1041	Block E – Typical Floor Plan (1 st to 6 th Floor)	Rev C01
CPK-BPTW-14-ZZ-DR-A-1047	Block E – Upper Floor Plan (7 th – 9 th Floor)	Rev C01
CPK-BPTW-14-10-DR-A-1050	Block E – Roof Plan	Rev C01
CPK-BPTW-15-ZZ-DR-A-1060	House Terrace 01 – Floor Plans	Rev C01
CPK-BPTW-16-ZZ-DR-A-1070	House Terrace 02 – Floor Plans	Rev C01
CPK-BPTW-13-ZZ-DR-A-2040	Block D Elevation - North	Rev C01
CPK-BPTW-13-ZZ-DR-A-2041	Block D Elevation - East	Rev C01
CPK-BPTW-13-ZZ-DR-A-2042	Block D Elevation - South	Rev C01
CPK-BPTW-13-ZZ-DR-A-2043	Block D Elevation - West	Rev C01
CPK-BPTW-14-ZZ-DR-A-2050	Block E Elevation - East	Rev C01
CPK-BPTW-14-ZZ-DR-A-2051	Block E Elevation - North East	Rev C01
CPK-BPTW-14-ZZ-DR-A-2052	Block E Elevation - North West	Rev C01
CPK-BPTW-14-ZZ-DR-A-2053	Block E Elevation - South	Rev C01
CPK-BPTW-14-ZZ-DR-A-2054	Block E Elevation - South West	Rev C01
CPK-BPTW-14-ZZ-DR-A-2055	Block E Elevation – West	Rev C01
CPK-BPTW-15-ZZ-DR-A-2060	House Terrace 01 – Elevations	Rev C01
CPK-BPTW-16-ZZ-DR-A-2070	House Terrace 02 - Elevations	Rev C01

3 METHODOLOGY OF THE STUDY

3.1 Local Planning Policy

3.1.1 We understand that the Local Authority take the conventional approach of considering daylight and sunlight amenity with reference to the various numerical tests laid down in the Building Research Establishment (BRE) guide 'Site Layout Planning for Daylight and Sunlight: a guide to good practice, 2nd Edition' by P J Littlefair 2011. A new European standard BS EN 17037 'Daylight in Buildings' was published in May 2019. An update to the BRE guide to take into account the European standard is expected sometime in 2021. It is not yet clear, how and to what extent, the European recommendations will be adopted by the BRE and Local Authorities.

3.1.2 The standards set out in the BRE guide are intended to be used flexibly. The BRE guide states:

3.1.3 "The guide is intended for building designers and their clients, consultants and planning officials. The advice given here is not mandatory and the guide should not be seen as an instrument of planning policy; its aim is to help rather than constrain the designer. Although it gives numerical guidelines, these should be interpreted flexibly, since natural lighting is only one of many factors in site layout design."

3.2 National Planning Policy Framework

3.2.1 The BRE numerical guidelines should be considered in the context of the National Planning Policy Framework (NPPF), which stipulates that local planning authorities should take a flexible approach to daylight and sunlight to ensure the efficient use of land. The NPPF states:

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

3.3 Interior Daylighting

3.3.1 The interior daylighting recommendations set out in BRE guide are based on British Standard BS 8206 Part 2 and the Chartered Institute of Building Services Engineers Applications Manual on window design. Collectively, the guides set out three main criteria for interior daylighting. These are summarised as follows:

Test 1 Average Daylight Factor (*df*)

3.3.2 The Average Daylight Factor can be calculated using the following formula:

$$df = \frac{T A_w \theta}{A (1-R^2)} \%$$

Where

T is the diffuse visible transmittance of the glazing
A_w is the net glazed area of the window (m²)
A is the total area of the room surfaces (m²)
R is their average reflectance
θ is the angle of visible sky in degrees

3.3.3 The Average Daylight factor test is applied to habitable rooms within domestic properties. A kitchen is generally deemed to be a habitable room if it is large enough to accommodate a dining area. If the kitchen is small or if the property has a separate dining area then the accepted practice is to treat the kitchen as a non habitable room.

3.3.4 For the purpose of this study we have assumed BRE internal reflectance values pertaining to medium wooden floors (Coefficient value of 0.4), light painted walls (0.8) and matte white painted ceilings (0.85).

3.3.5 For the purpose of this study we have assumed the windows consist of modern double-glazed units with a frame to glazing ratio of 0.8. A maintenance factor has been applied to consider the effect of dirt and grime on the visibility of the window. On this basis, the transmittance value used within this study is 0.68.

3.3.6 To achieve a predominately daylit space, the guide recommends an Average Daylight Factor of 5% or more if there is no supplementary electric lighting, or 2% or more if supplementary lighting is provided. There are additional minimum recommendations for dwellings of 2% for kitchens, 1.5% for living rooms and 1% for bedrooms.

-
- 3.3.7 The BRE guide does not give guidance on how to apply the ADF test to spaces which contain a mix of room uses e.g. open plan living, dining and kitchen areas. For this assessment we have set a target of 2% with the aim of reaching the predominately daylight benchmark.
- 3.3.8 A special procedure is required for floor to ceiling windows such as patio doors. If part of a window is below the height of the working plane (a horizontal plane 0.85m above the floor in housing), this portion should be treated as a separate window. The ADF for this window has an extra factor applied to it, to take account of the reduced effectiveness of low level glazing in lighting the room. A value equal to the floor reflectance may be taken for this factor. The ADF for the portion of the window above the working plane is calculated in the normal way without this additional factor, and the ADFs for the two portions are added together.
- 3.3.9 Where a window has a large obstruction in front of it, the angle of visible sky can be increased by around 6° assuming the obstruction is painted a light colour.

Test 2 Room Depth

- 3.3.10 If a daylight room is lit by windows in one wall only, the depth of the room L should not exceed the limiting value given by:

$$\frac{L}{W} + \frac{L}{H} \leq \frac{2}{1-R_b}$$

Where

W is the room width

H is the window-head height above floor level

R_b is the average reflectance of the surfaces in the rear half of the room

Test 3 Position of the no sky line

- 3.3.11 If a significant area of the working plane lies beyond the no sky line (i.e. it receives no direct skylight), then the distribution of daylight in the room will look poor and supplementary electric lighting will be required.

3.3.12 The no sky line assessment is not applicable where a room derives its daylight solely from a light well or atrium. In these situations, the room relies on borrowed light instead of direct skylight.

3.4 Sunlight to Windows

3.4.1 The BRE guide recommends that where possible each dwelling should have at least one main living room window that faces within 90 degrees of due south. However, the guide acknowledges that this is not always possible when it comes to flats.

3.4.2 The BRE sunlight tests should be applied to all main living rooms and conservatories which have a window which faces within 90 degrees of due south. The guide states that sunlight is viewed as less important in kitchens and bedrooms. In non-domestic buildings, any spaces which are deemed to have a specific requirement for sunlight should be checked.

3.4.3 The BRE guide recommends that main living room windows should receive 25% of the total annual probable sunlight hours, including 5% of the annual probable sunlight hours during the winter months between 21st September and 21st March.

3.5 Overshadowing to Gardens and Open Spaces

3.5.1 The availability of sunlight should be checked for all open spaces where sunlight is required. This 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.

3.5.2 The BRE guide recommends that for an open space to appear adequately lit throughout the year, at least 50% of its area should receive two hours of sunlight on 21st March.

3.6 Trees and Hedges

- 3.6.1 Appendix H of the BRE guide gives guidance on trees and hedges. Trees and hedges vary in their effects on skylight and sunlight. Most tree species will cast partial shade; for deciduous trees, this will vary with the time of year. It is generally more difficult to calculate the effects of trees on daylight and sunlight because of their irregular shape and because some light will generally penetrate through the tree crown. Modern computer programmes do allow daylight and sunlight consultants to predict the impact of trees with a relatively high degree of accuracy.
- 3.6.2 To account for the effect of trees, it is necessary to run the daylight and sunlight simulation twice. For example, with daylight, the first set of calculations treats the trees as solid obstructions. The second set of calculations ignores the trees altogether. The true effect of the trees is somewhere between the two sets of results. To interpolate between the two sets of results, it is necessary to factor in how much light is able to pass through the trees.
- 3.6.3 Appendix H of the BRE guide gives approximate transparency values for various types of trees. The transparency value is a measure of how much light will pass through a tree. When analysing daylight and sunlight, we have applied the average transparency value of 20% in the summer months and 55% in the winter months i.e. 20% of the light will pass through and 80% will be blocked in the summer and 55% of light will pass through and 45% will be blocked in the winter.
- 3.6.4 Because there are two different values of transparency for winter and summer, there will be two different values of equivalent visible sky angle θ . These values are then used in the Average Daylight Factor (ADF) equation to give two different ADF scores for winter and summer.
- 3.6.5 The BRE guide notes that, if the recommended values of ADF are exceeded in both summer and winter, then daylight would be considered adequate. The guide adds that, for a room where the minimum value is exceeded in winter but not in summer, daylight provision year round is still likely to be adequate, but it is clear that the trees are having some effect on daylight.
- 3.6.6 To assess the effect of trees on sunlight, a modified form of the above procedure is used. In the calculation, the θ is replaced by the annual probable sunlight hours

(APSH) and winter probable sunlight hours (WPSH). As with the ADF, the results showing the effect of trees on APSH will lie somewhere between if the trees are treated as opaque and if they are not there at all.

4 RESULTS OF THE STUDY

4.1 Window Reference Points and No Sky Line Contours

4.1.1 Refer to Appendix 1 for a drawing which identifies the positions of the windows analysed in this study. The no skyline contours for the habitable rooms are also presented in Appendix 1.

4.2 Numerical Results

4.2.1 The numerical test results including all calculation workings are provided in Appendix 2.

4.3 Interior Daylighting

4.3.1 For completeness, we have provided Average Daylight Factor (ADF) results for both the summer and winter months. The BRE Guide explains that, providing the ADF target is met in the winter months, daylight provision year-round is likely to be adequate. The results show that 99.4% of all rooms achieve or surpass their Average Daylight Factor (ADF) targets in the winter months. Only 4 out of the 631 rooms fall slightly short of the same. However, as explained in paragraphs 3.3.6 and 3.3.7 of this report, whilst the BRE guide gives minimum targets for living rooms, bedrooms and kitchens, no equivalent target is given for open plan rooms comprising two or more uses. Therefore, we have adopted the more onerous 2% target for these rooms. The four mixed-use rooms that do not achieve an ADF of 2%, achieve an ADF of 1.8% or above. The rooms therefore achieve the minimum recommended target applicable to living rooms. In overall terms, the ADF scores represent a very high level of compliance with the BRE recommendations.

4.3.2 All rooms pass the room depth test.

4.3.3 The BRE guide does not give fixed numerical pass/fail criteria for the No Sky Line test when applied to new dwellings (guidance is given for when this test is applied to existing neighbouring buildings). However, for completeness, we have illustrated the no sky line contours in Appendix 1. The vast majority of the contours illustrate good access to daylight over a significant part of the working plane.

4.4 Sunlight to Windows

4.4.1 Living rooms which face within 90 degrees of due south have been tested for direct sunlight. The results are presented in Appendix 2. Not all windows receive ideal levels of direct sunlight. However, the BRE guide explains that for blocks of apartments it may not be possible to have every living room facing within 90 degrees of due south. The guide goes on to explain that the number of north facing living rooms should be minimised. Figure 26 on page 15 of the guide illustrates an example of good layout design where only 1 out of 5 apartments (20%) have only north facing windows. In the case of the existing units at Chapel Gate, around 26% have only north facing living room windows, which, given the constraints of the site, we are of the opinion still demonstrates good layout design.

4.5 Overshadowing to Gardens and Open Spaces

4.5.1 The results show that 55% or more of the area of each amenity space will receive at least two hours of sunlight on 21 March. This is better than the BRE recommendation which states that at least 50% of any garden or amenity area should receive at least two hours of sunlight on 21 March. The proposed development therefore passes the BRE overshadowing to gardens and open spaces test.

4.6 Conclusion

4.6.1 The numerical results demonstrate that the proposed development design achieves a very high level of compliance with the BRE recommendations. Whilst a very small number of rooms do not meet the recommendations, the results are not unusual given the constraints of the site. In our professional opinion, the proposed design will provide the development's future occupiers with adequate levels of natural light.

5 CLARIFICATIONS

5.1 General

- 5.1.1 The report provided is solely for the use of the client and no liability to anyone else is accepted.
- 5.1.2 The study is limited to assessing daylight, sunlight and overshadowing of the proposed development as set out in section 2.1, 3.1 and 3.3 of the BRE Guide.
- 5.1.3 The study has been undertaken following access to the proposed development site. We have not had access to neighbouring properties. The study is based on the information listed in section 2 of this report.
- 5.1.4 We have undertaken the survey following the guidelines of the RICS publication "Surveying Safely". Where limited access is available, assumptions will have been made.
- 5.1.5 This report is based upon and subject to the scope of work set out in Right of Light Consulting's quotation and standard terms and conditions.

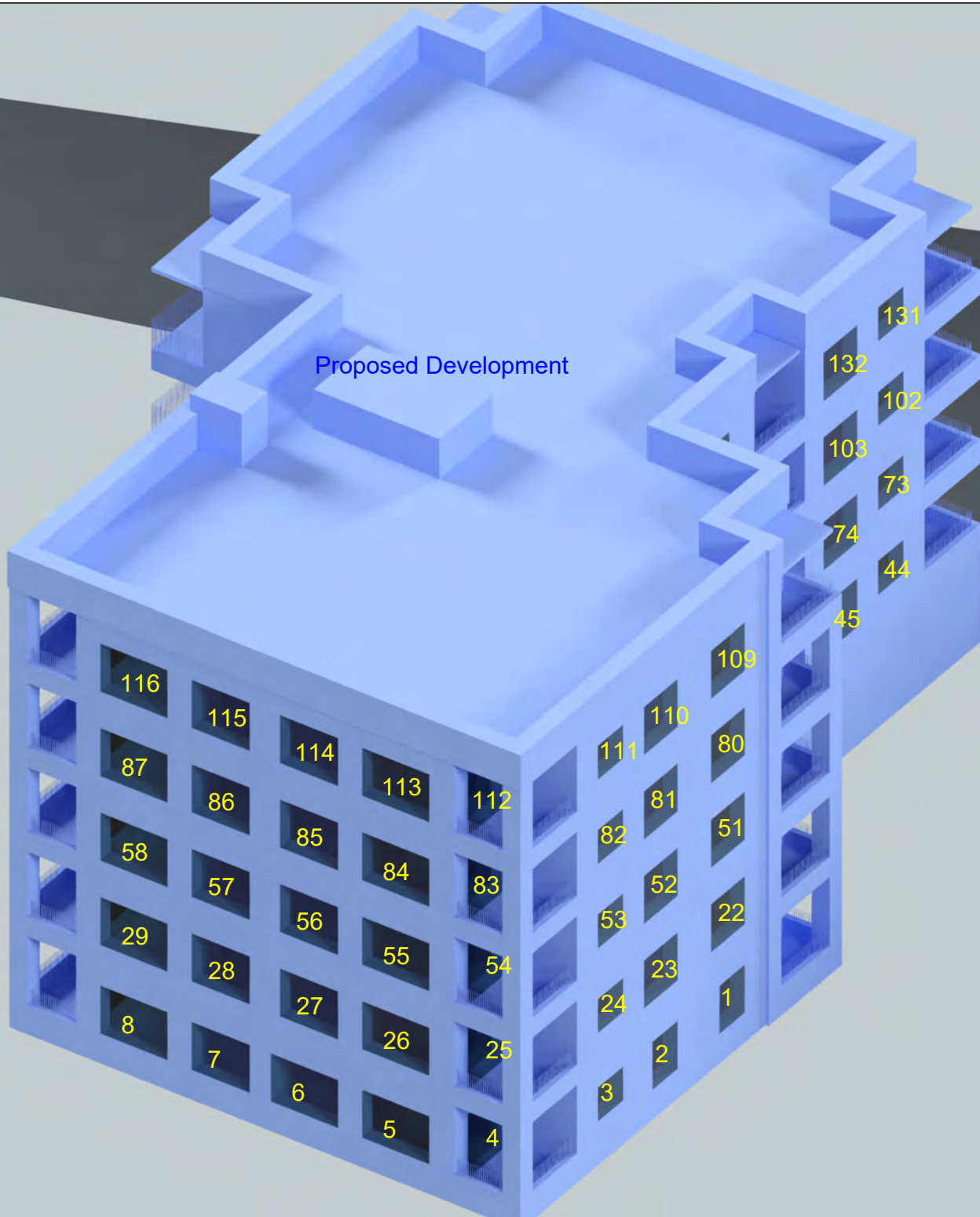
APPENDICES

APPENDIX 1

WINDOW KEY & NO SKY LINE CONTOURS



Proposed Development





Proposed Development



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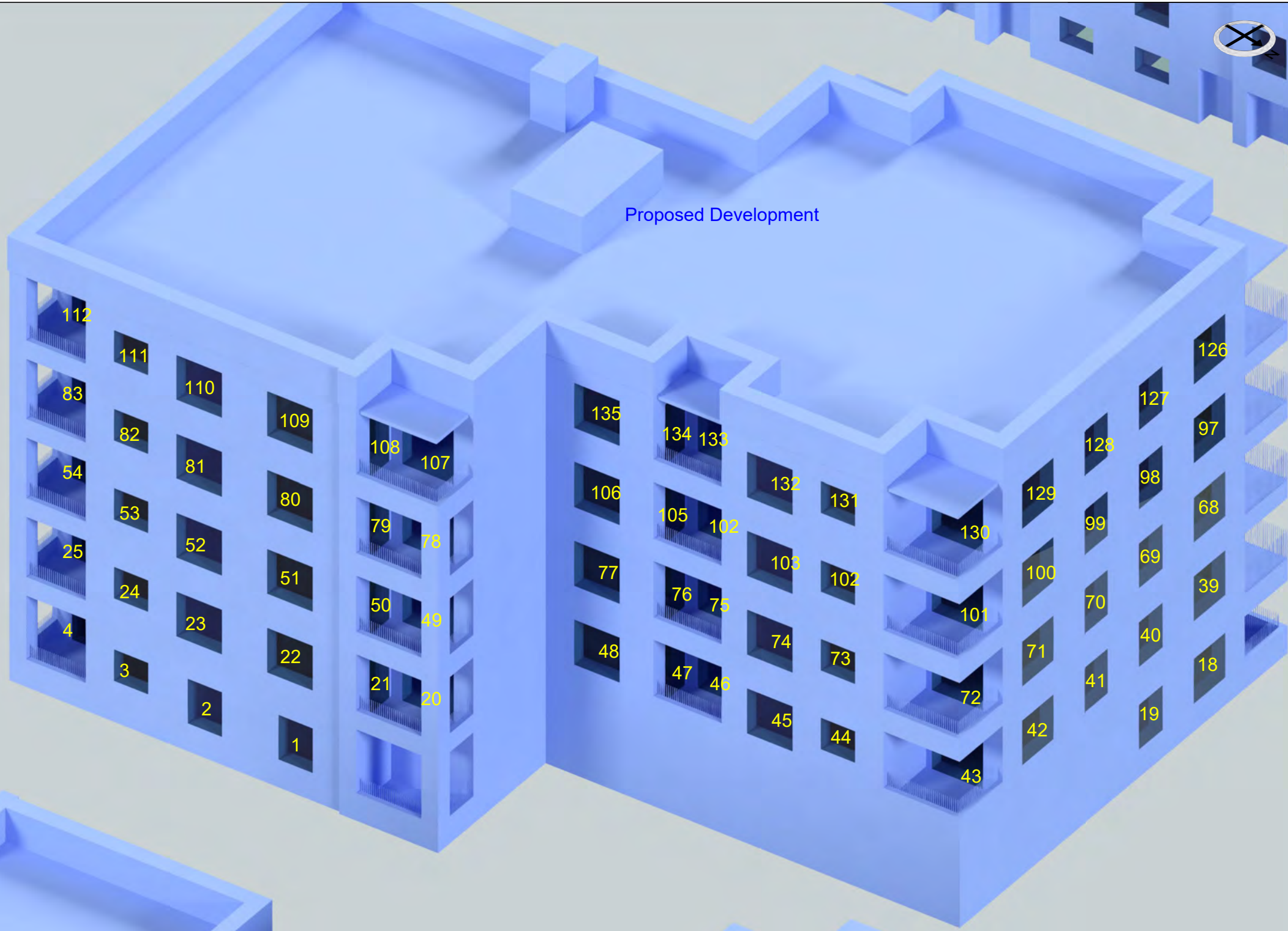
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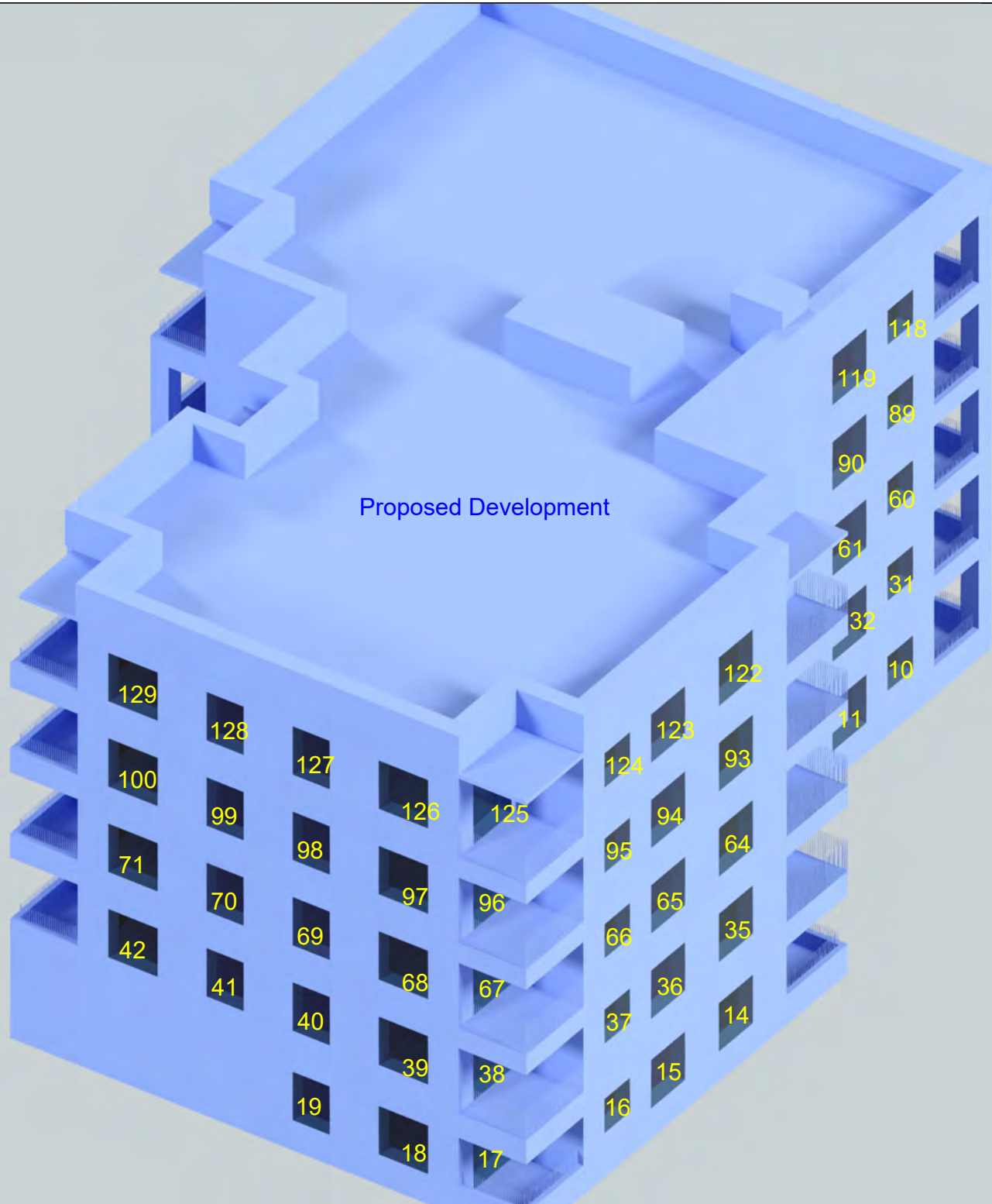
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Proposed Development





Proposed Development

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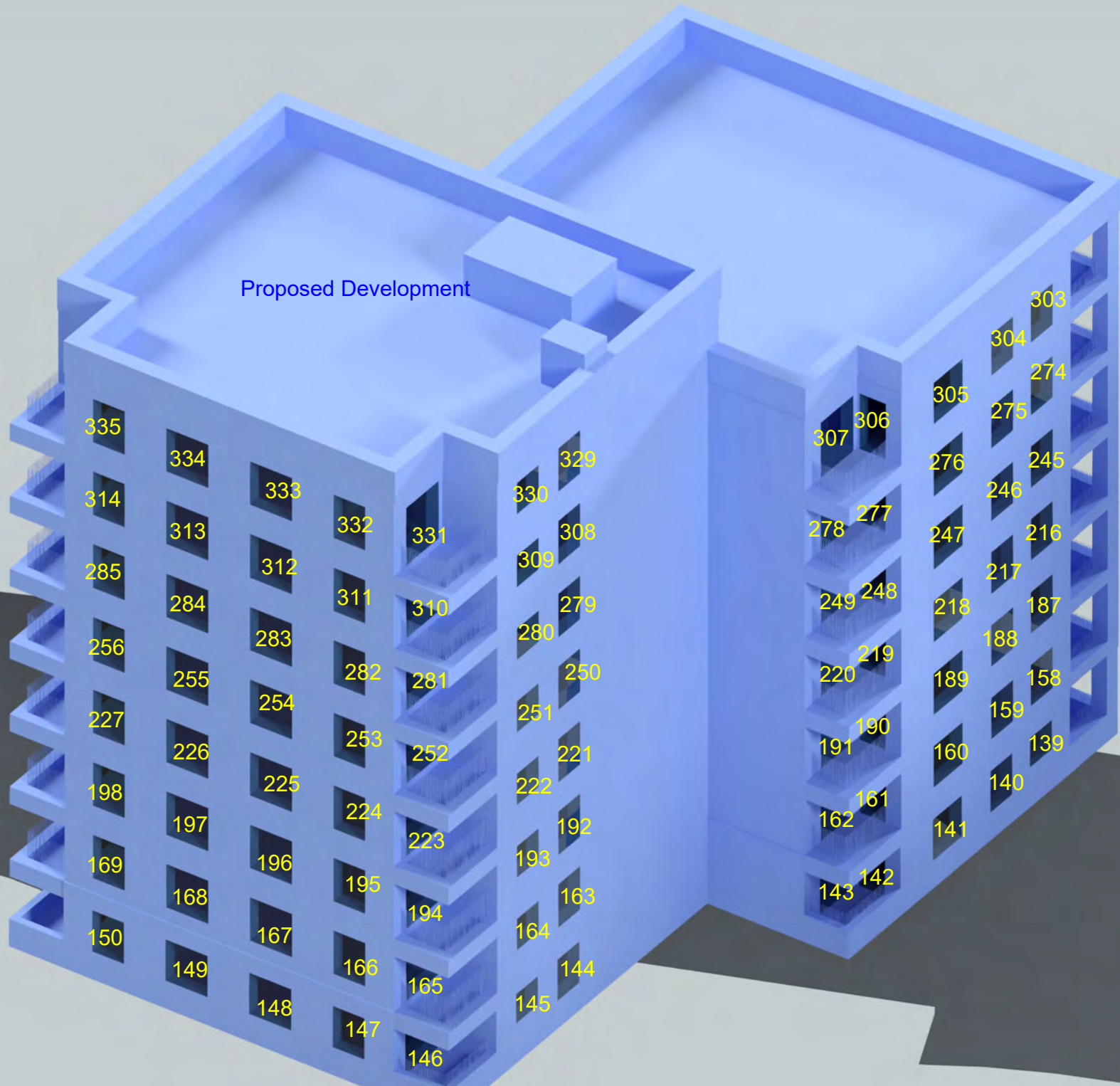
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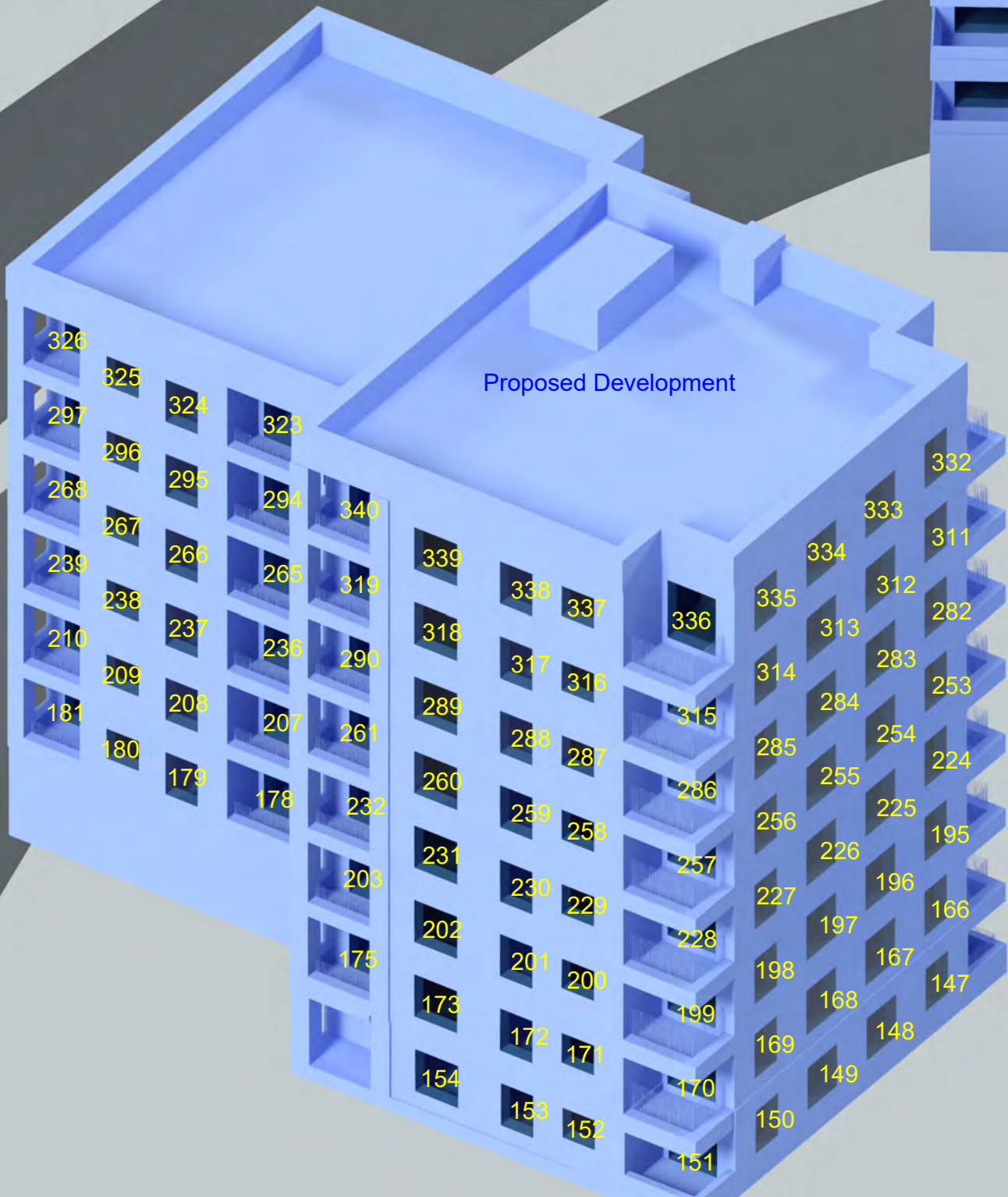


Proposed Development





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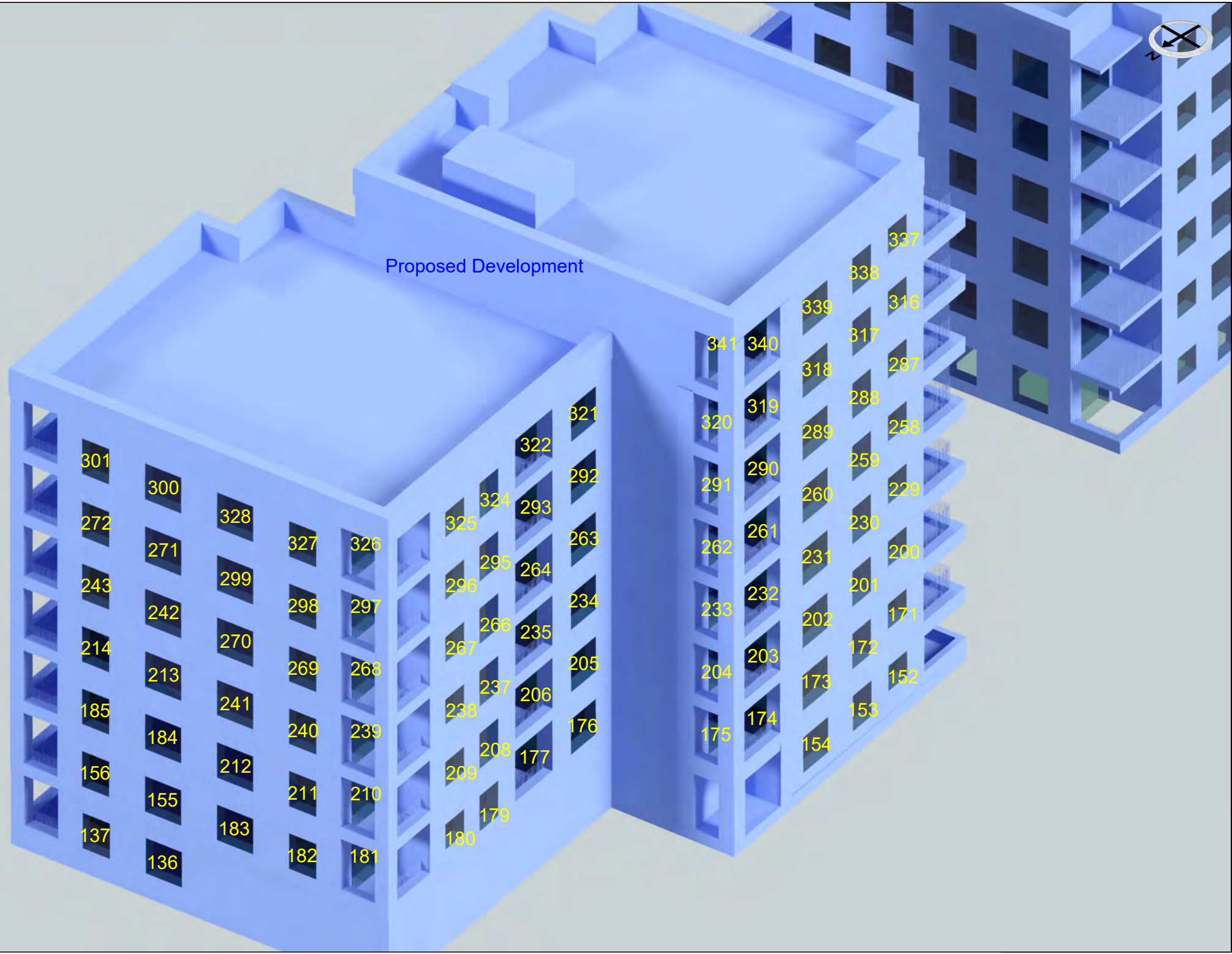


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Proposed Development



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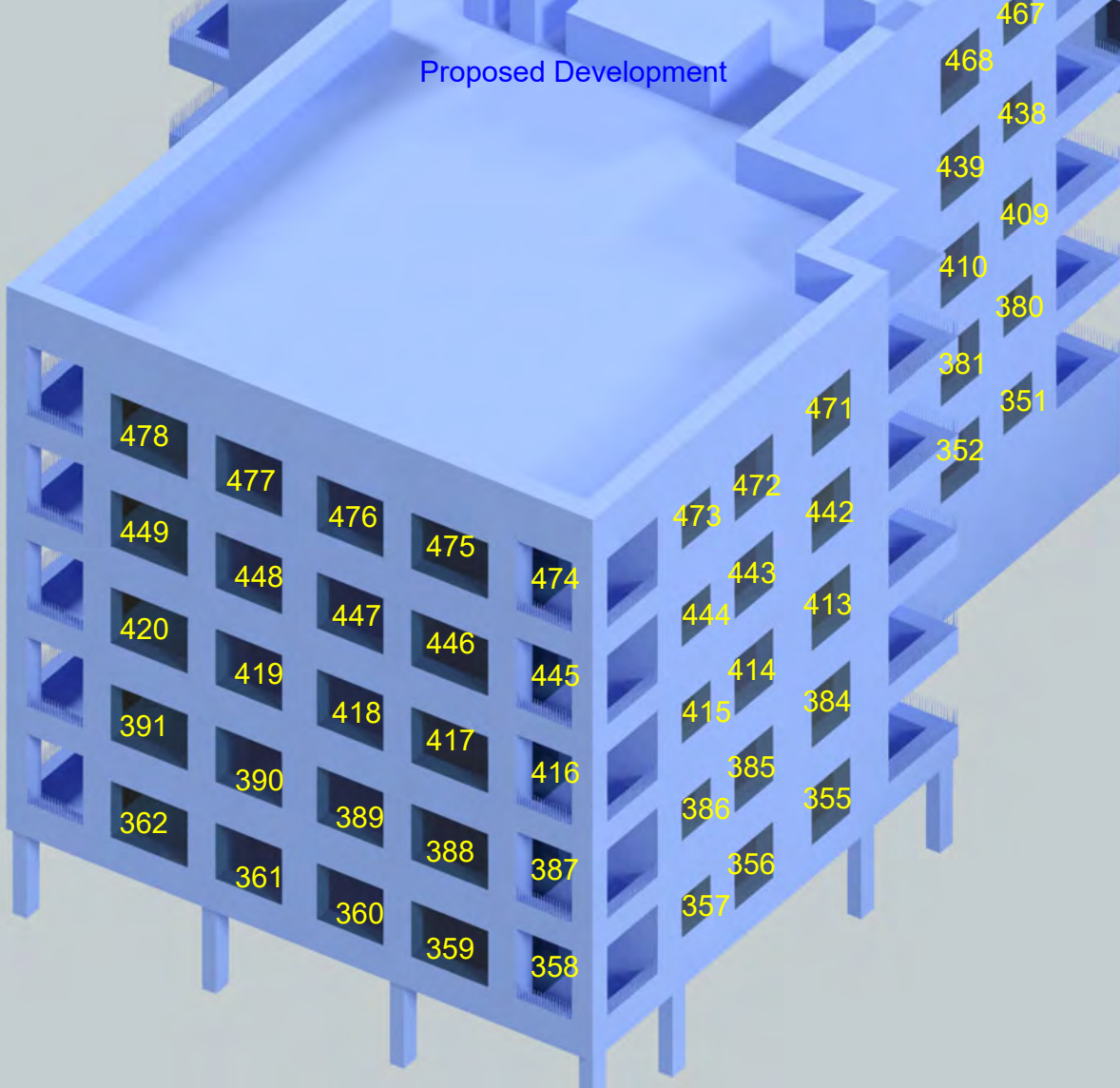
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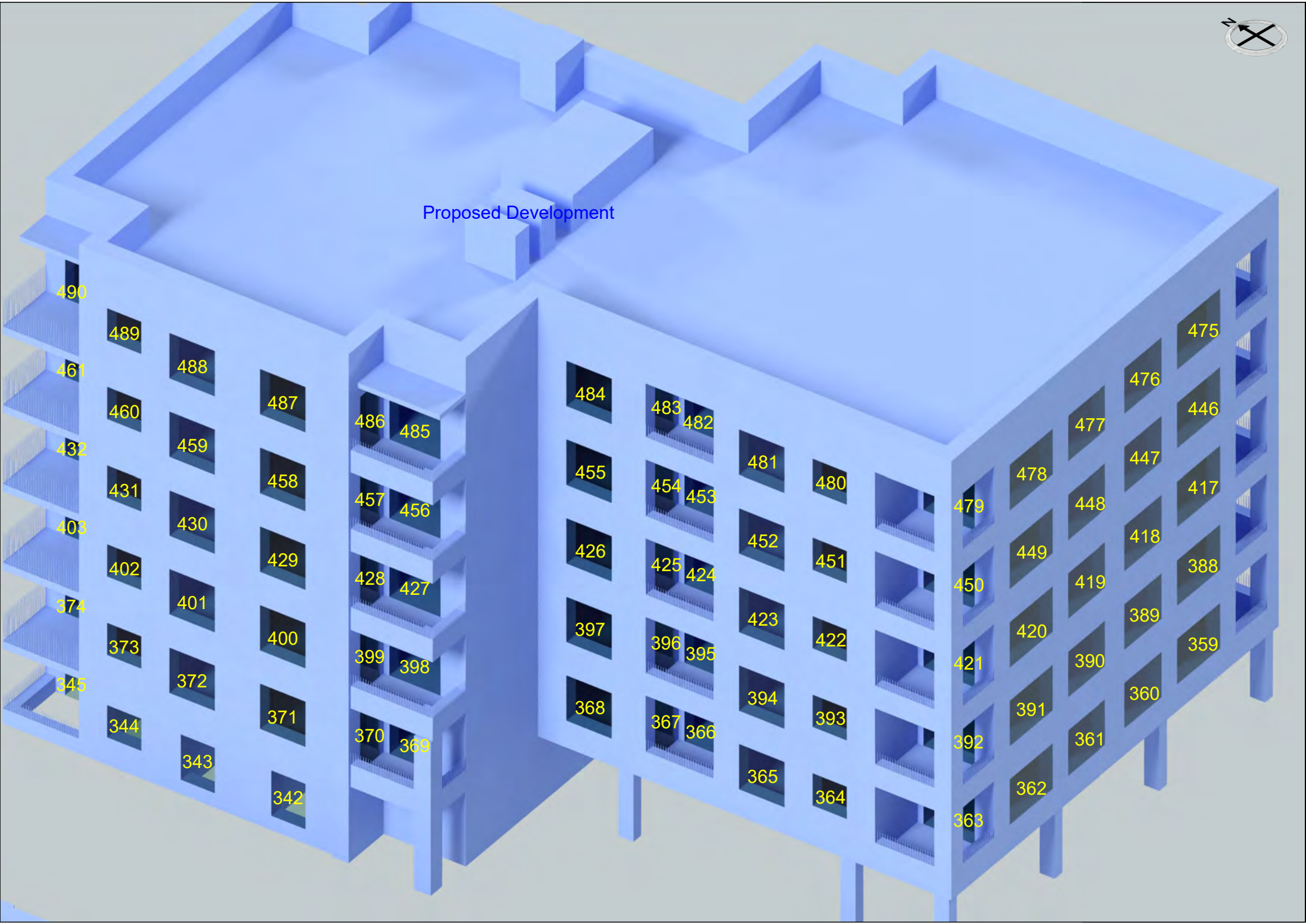


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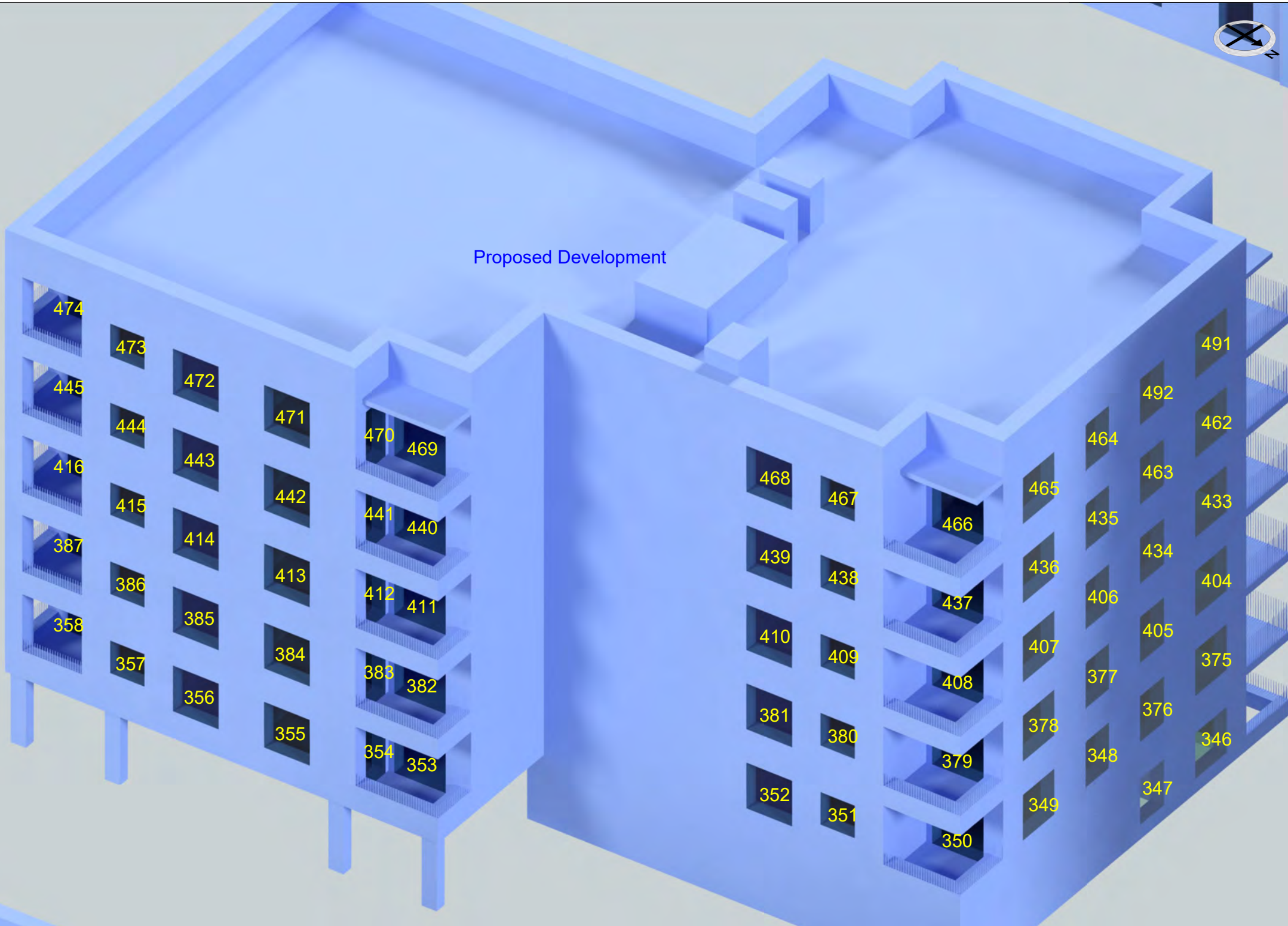


Proposed Development





Proposed Development



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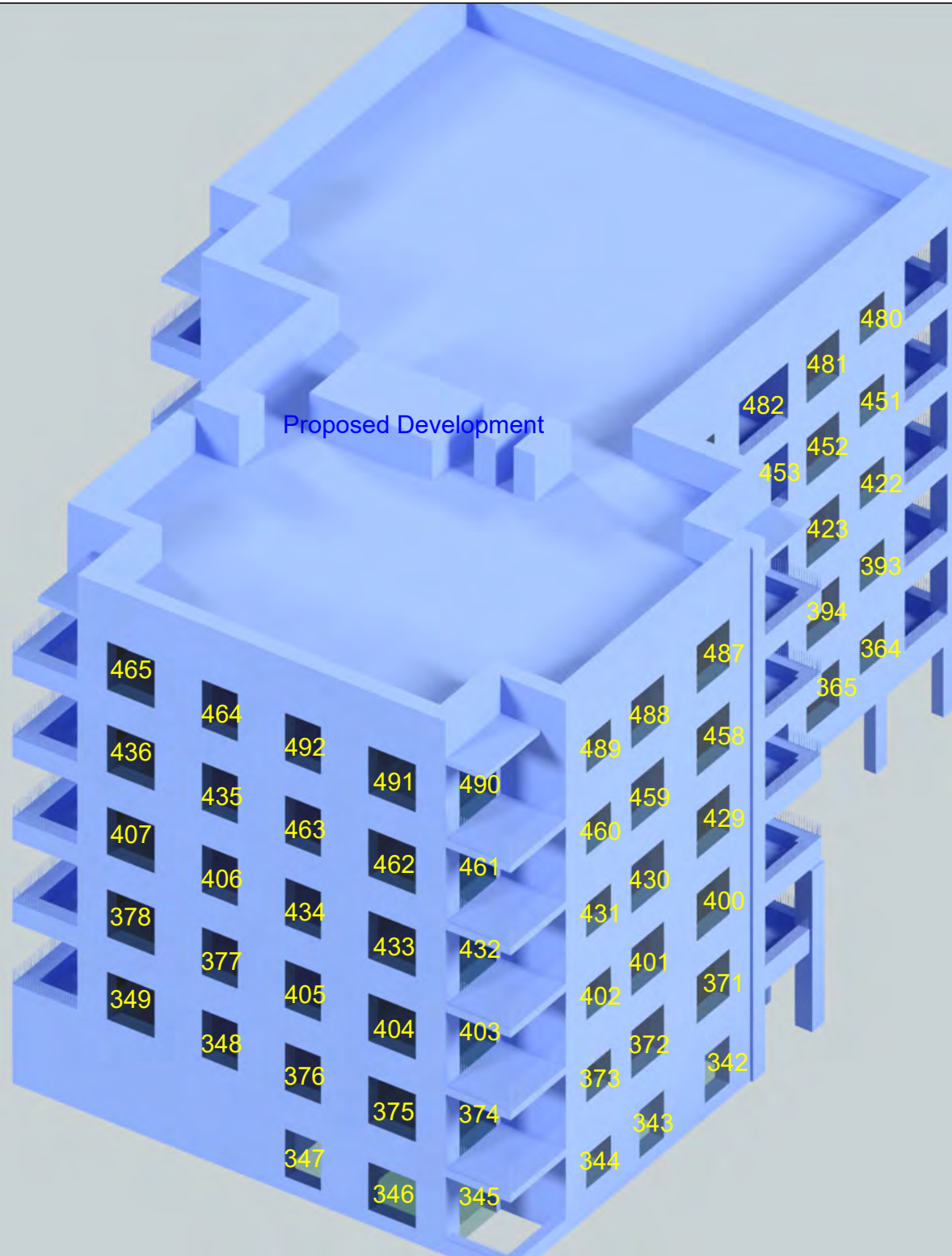
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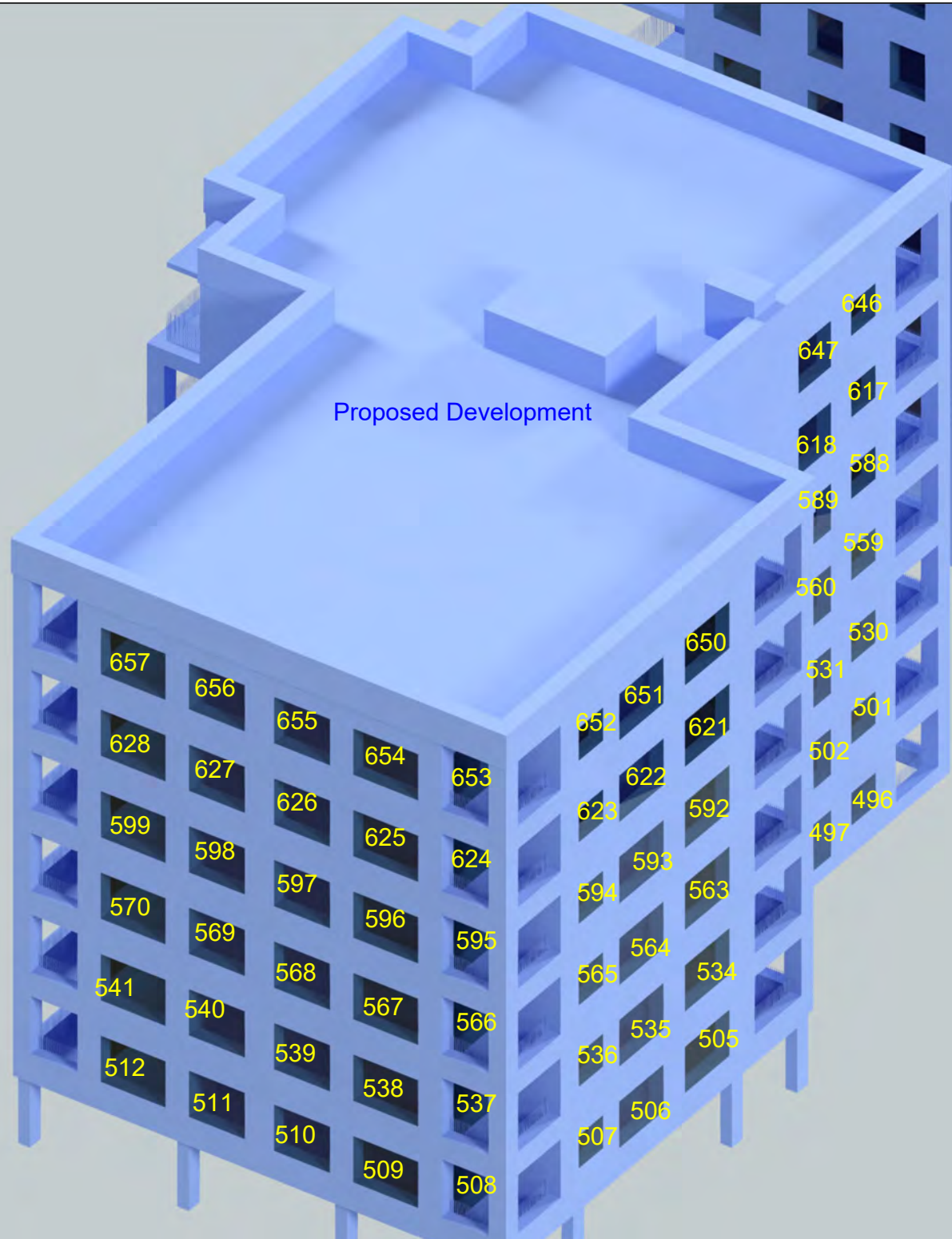
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Proposed Development



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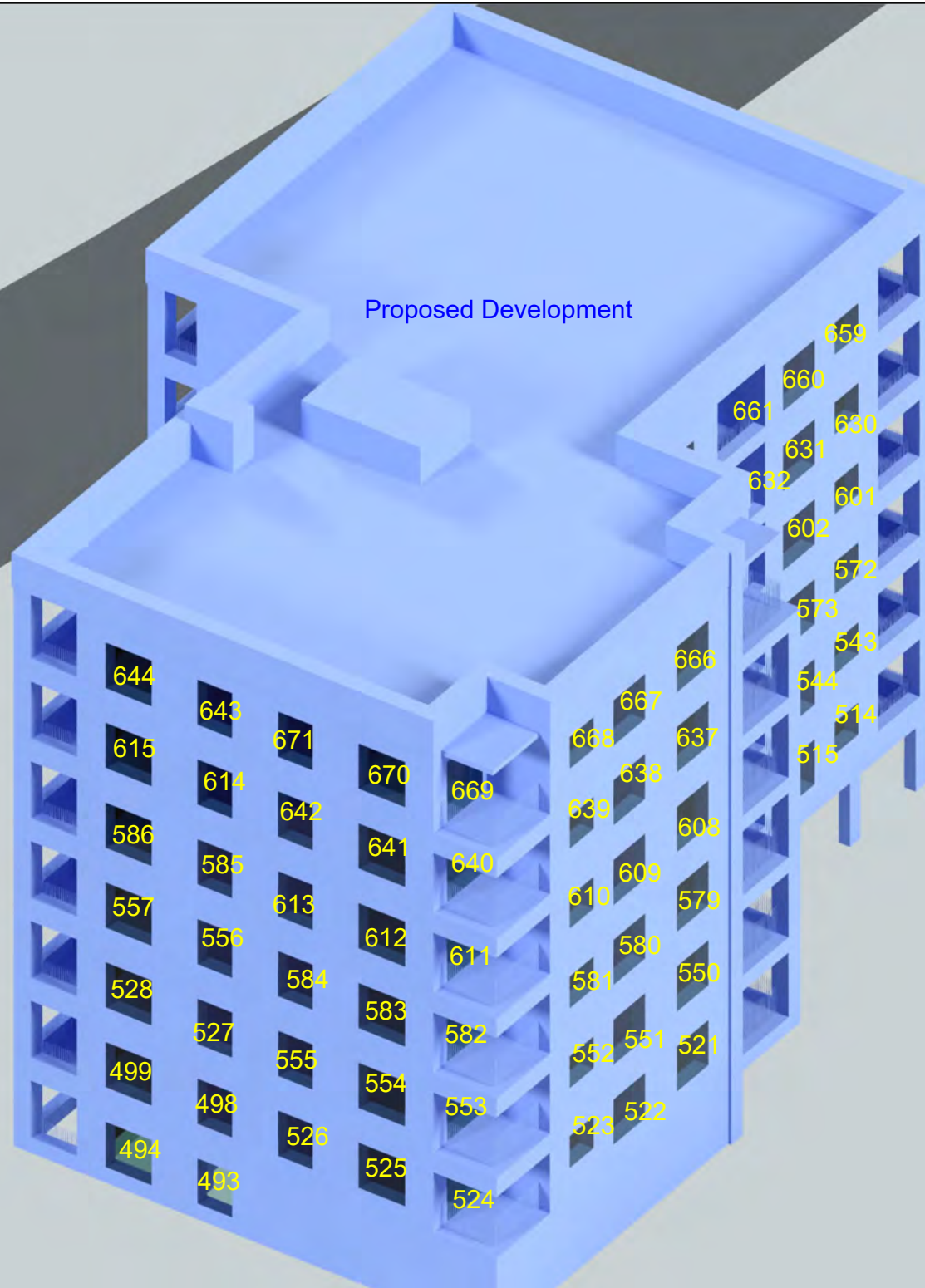


Proposed Development





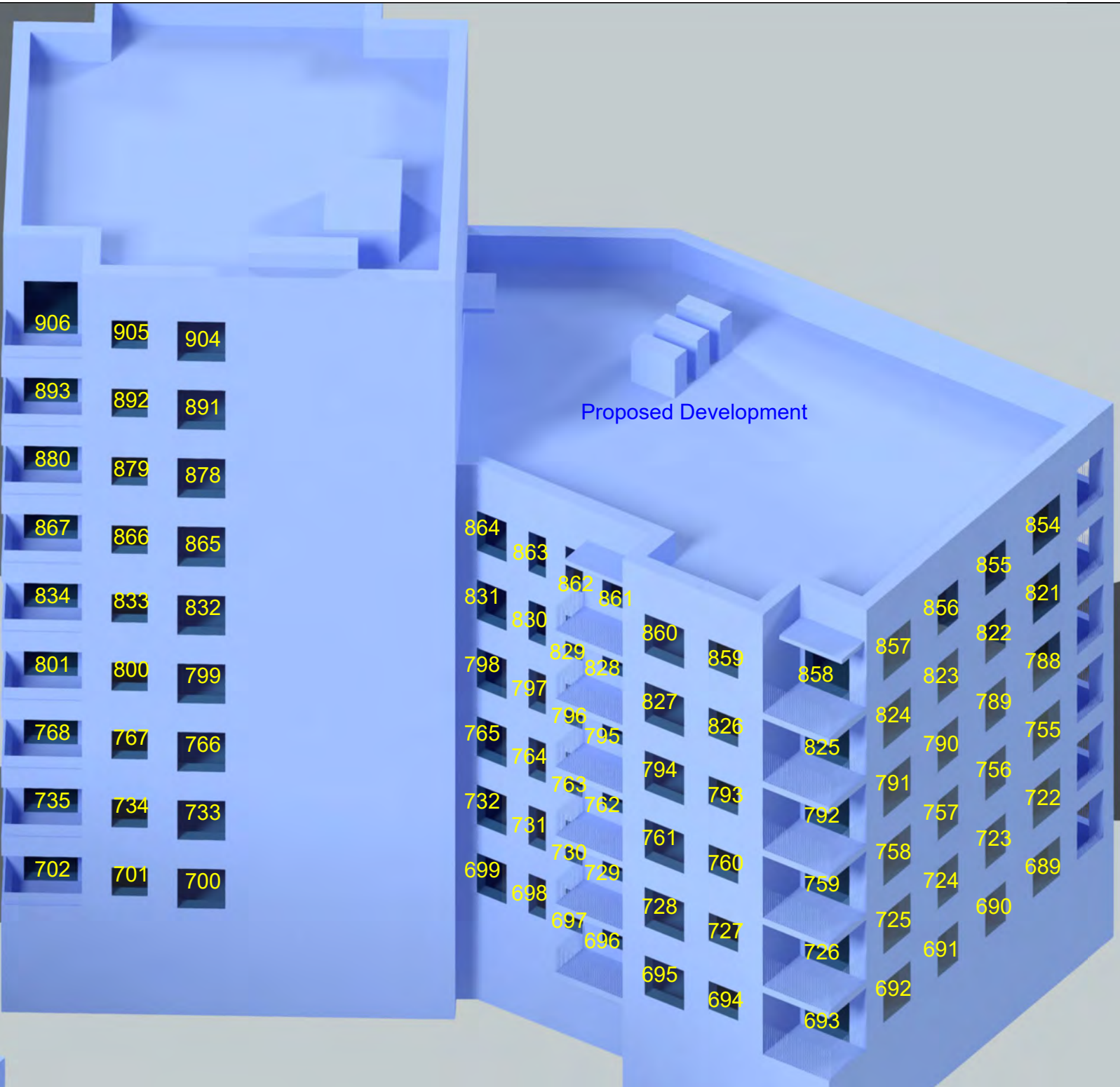
Proposed Development





Proposed Development

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824	823	855		851	817	815
791	790	822	854	852	818	816
758	757	821	853	819	784	782
725	724	789	820	785	751	749
692	691	788	787	786	718	716
		756	755	753	719	717
		723	722	720	685	684
		690	689	687	686	
			688			



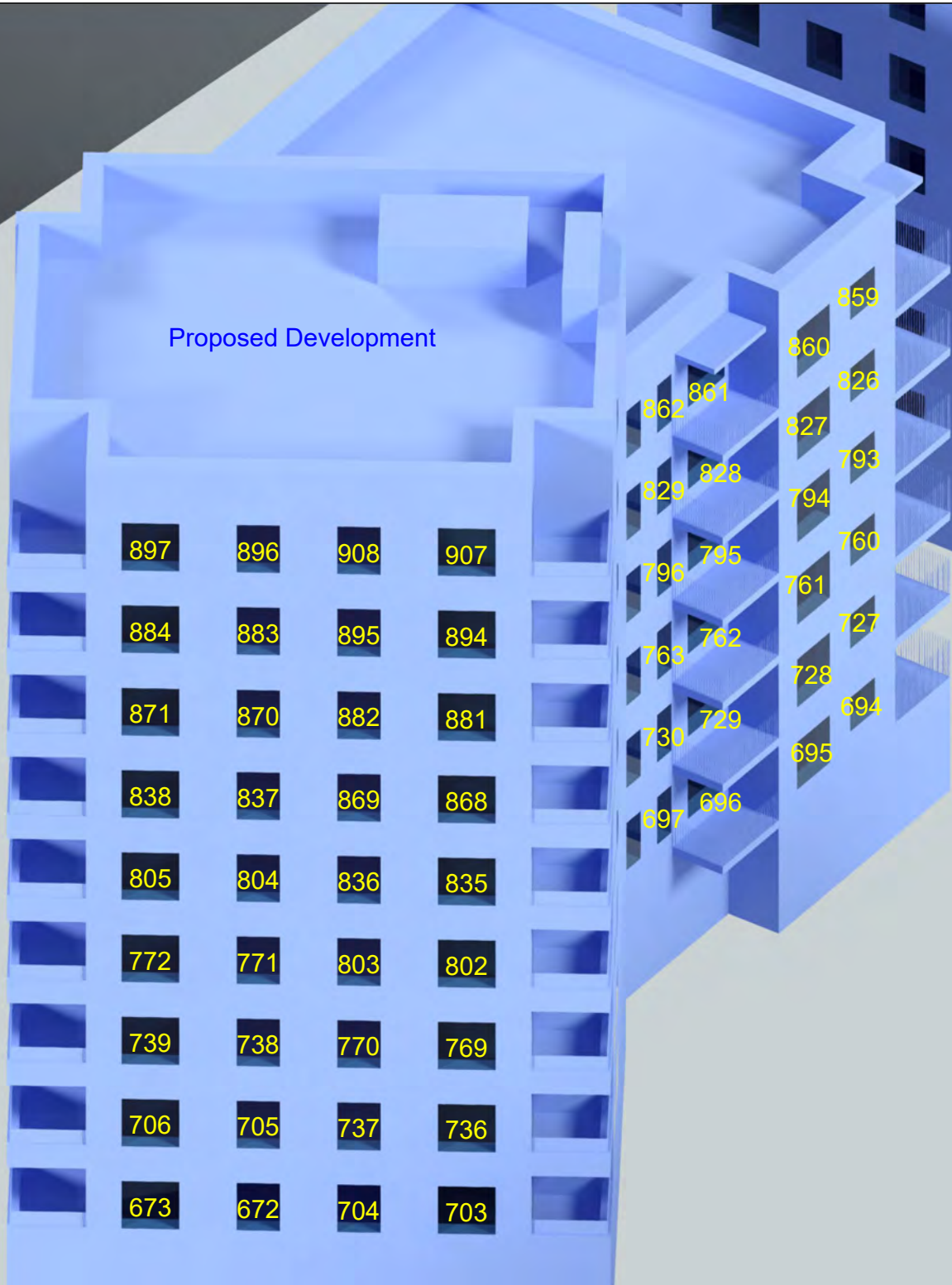


Proposed Development

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820	851	850					890	888	887	886	885
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754	786	817	815	846	845		844	842	841	840	839
721	753	785	813	813	812		811	809	808	807	806
688	720	752	782	781	780		778	776	775	774	773
	687	719	749	748	747		745	743	742	741	740
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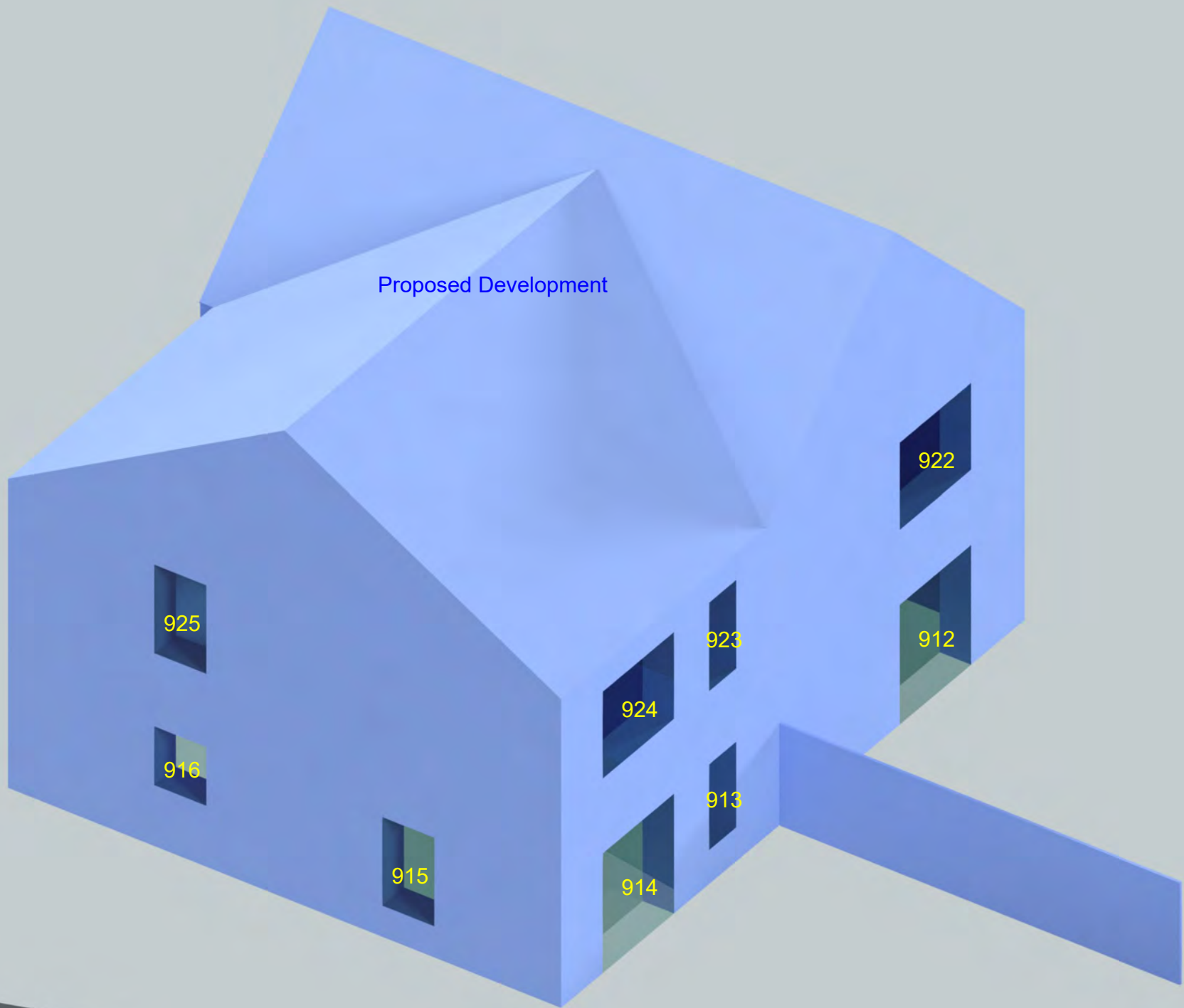


Proposed Development





Proposed Development



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Proposed Development

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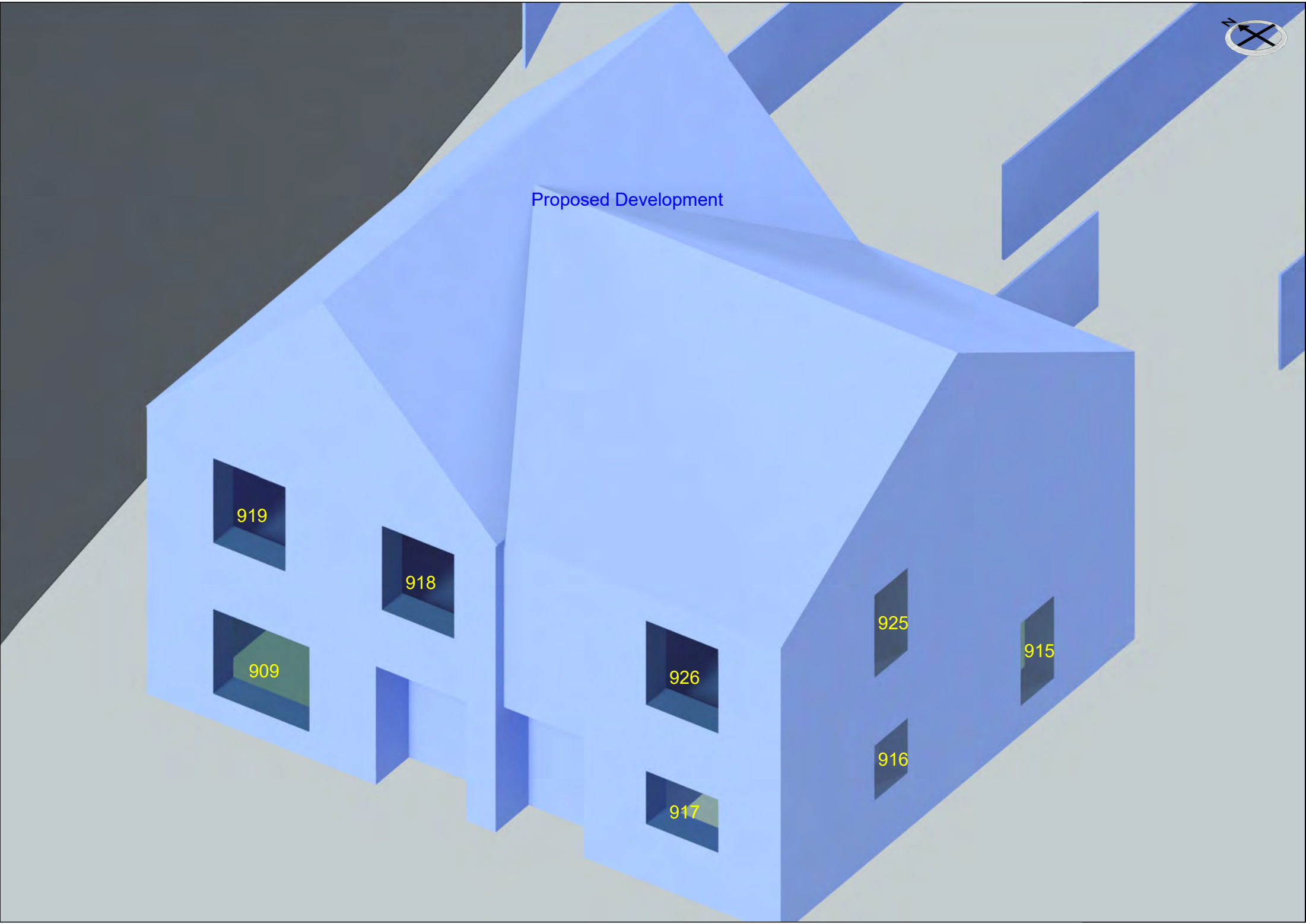
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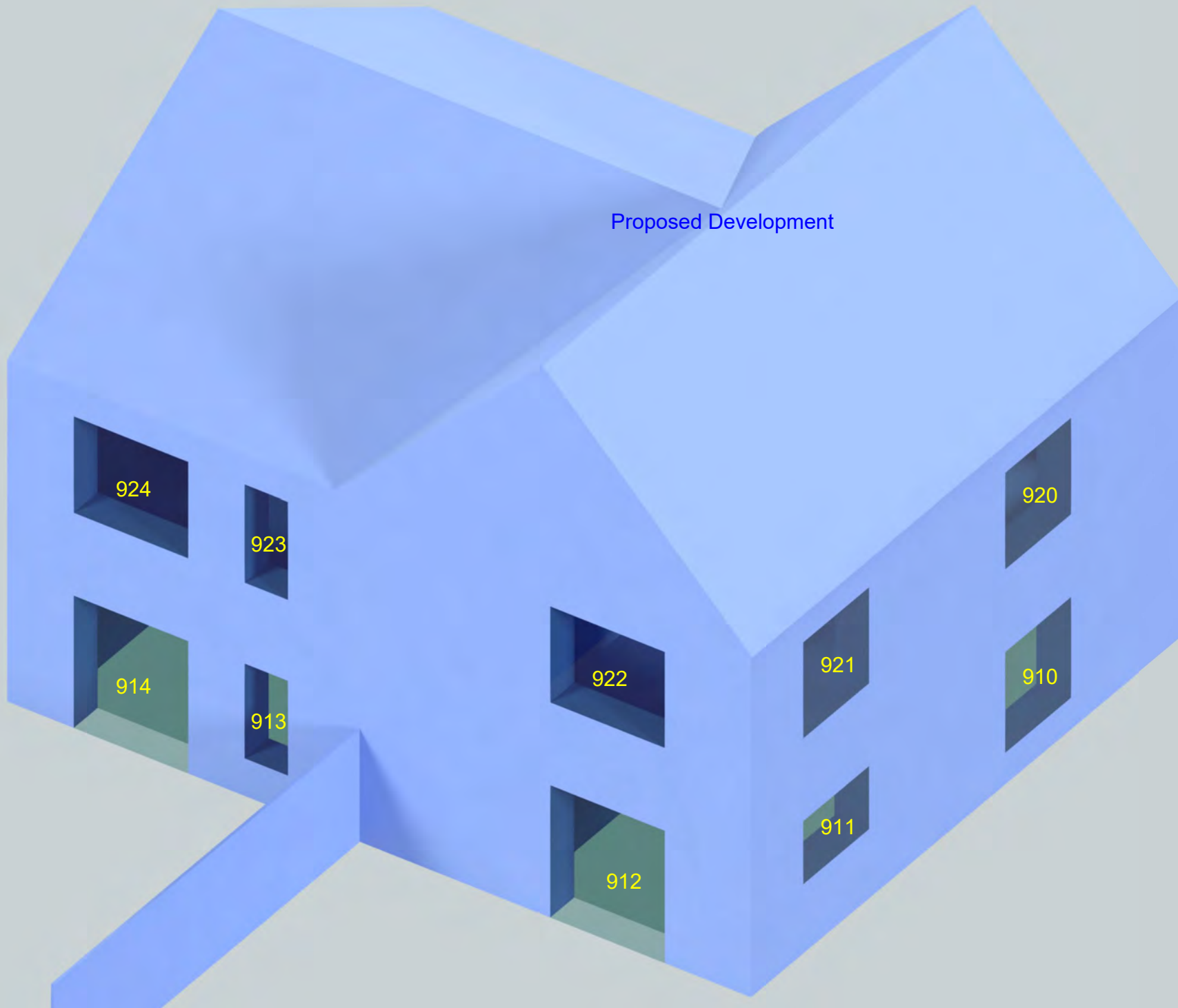
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Proposed Development



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Proposed Development

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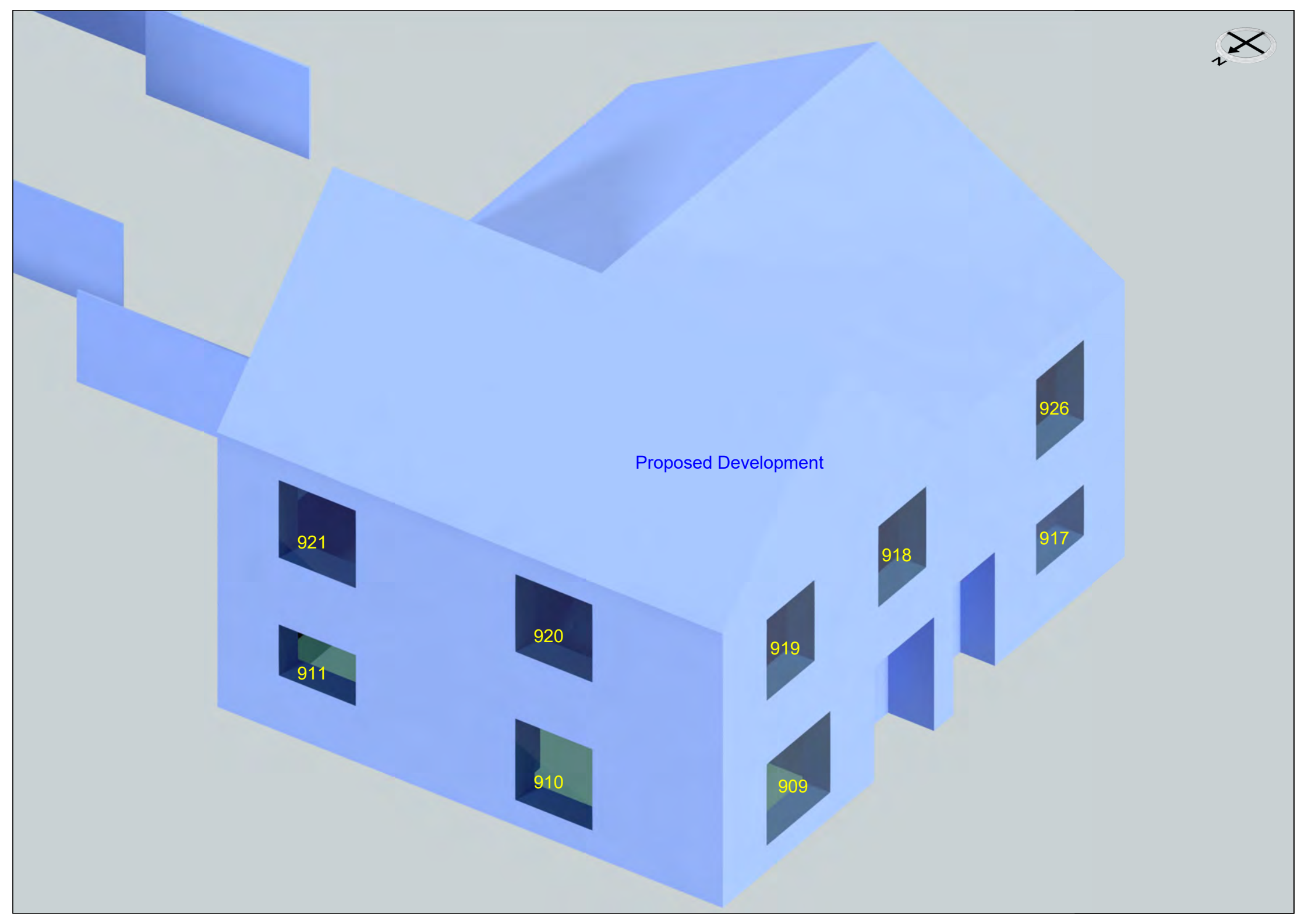
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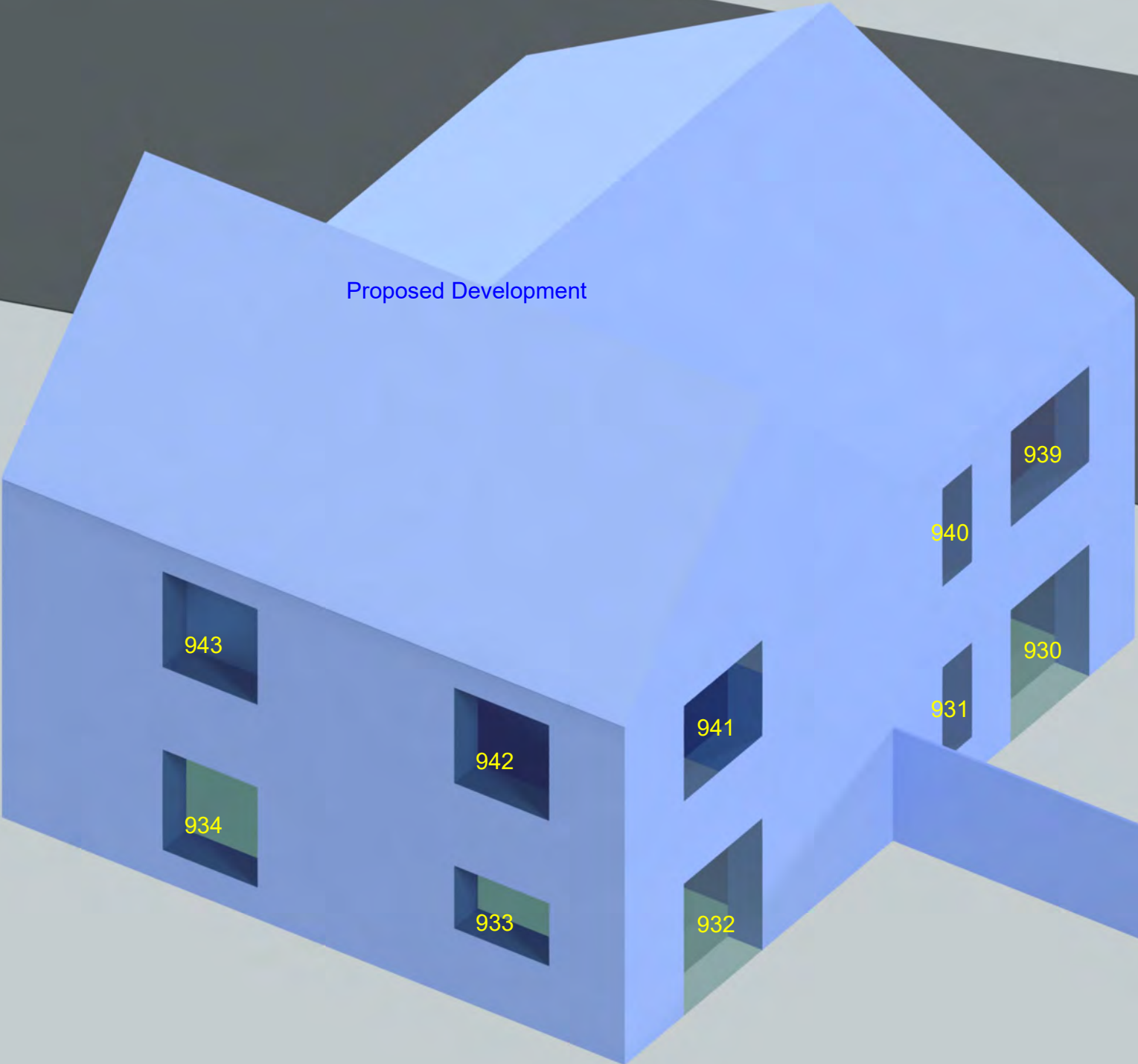
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Proposed Development



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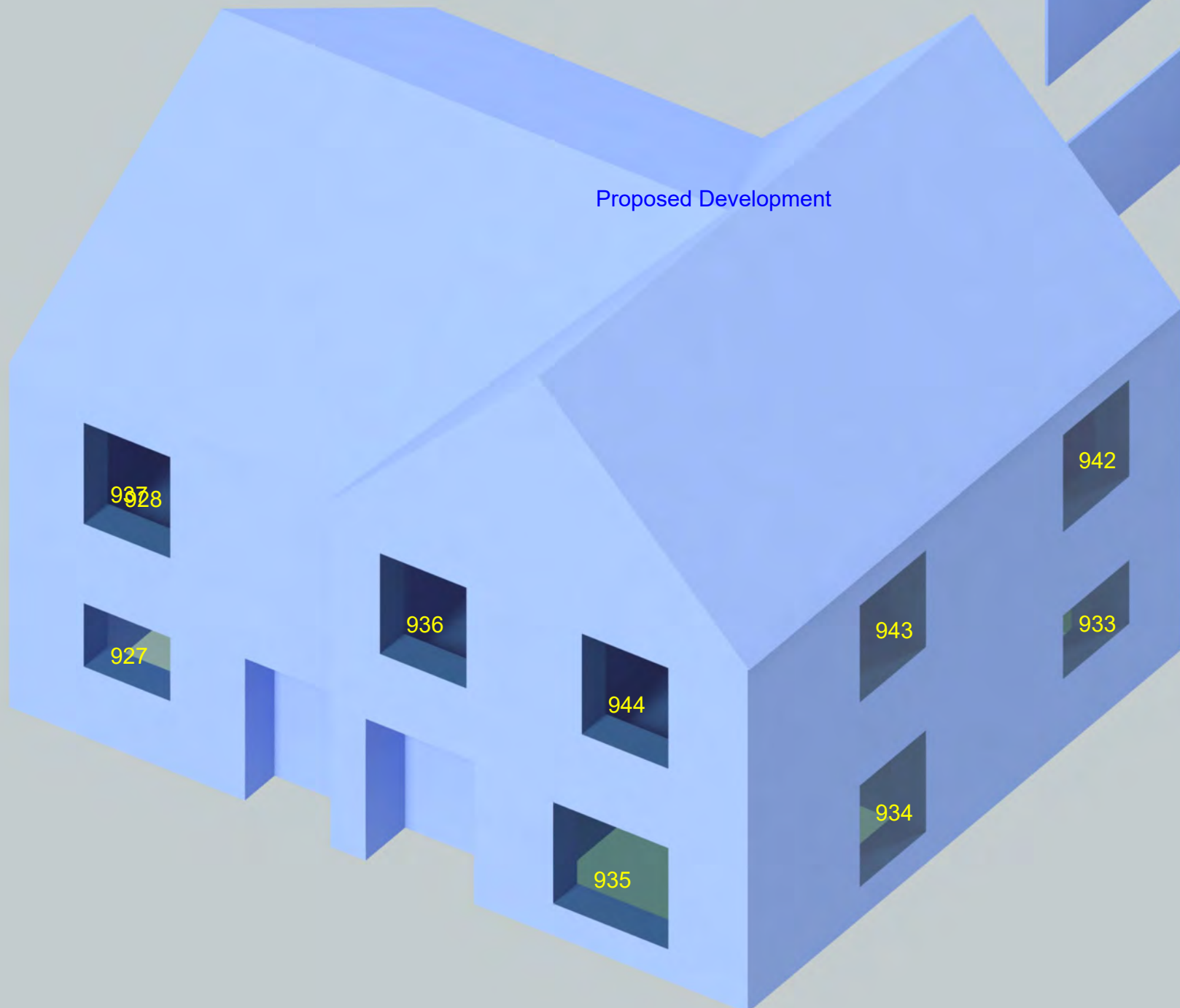
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Proposed Development



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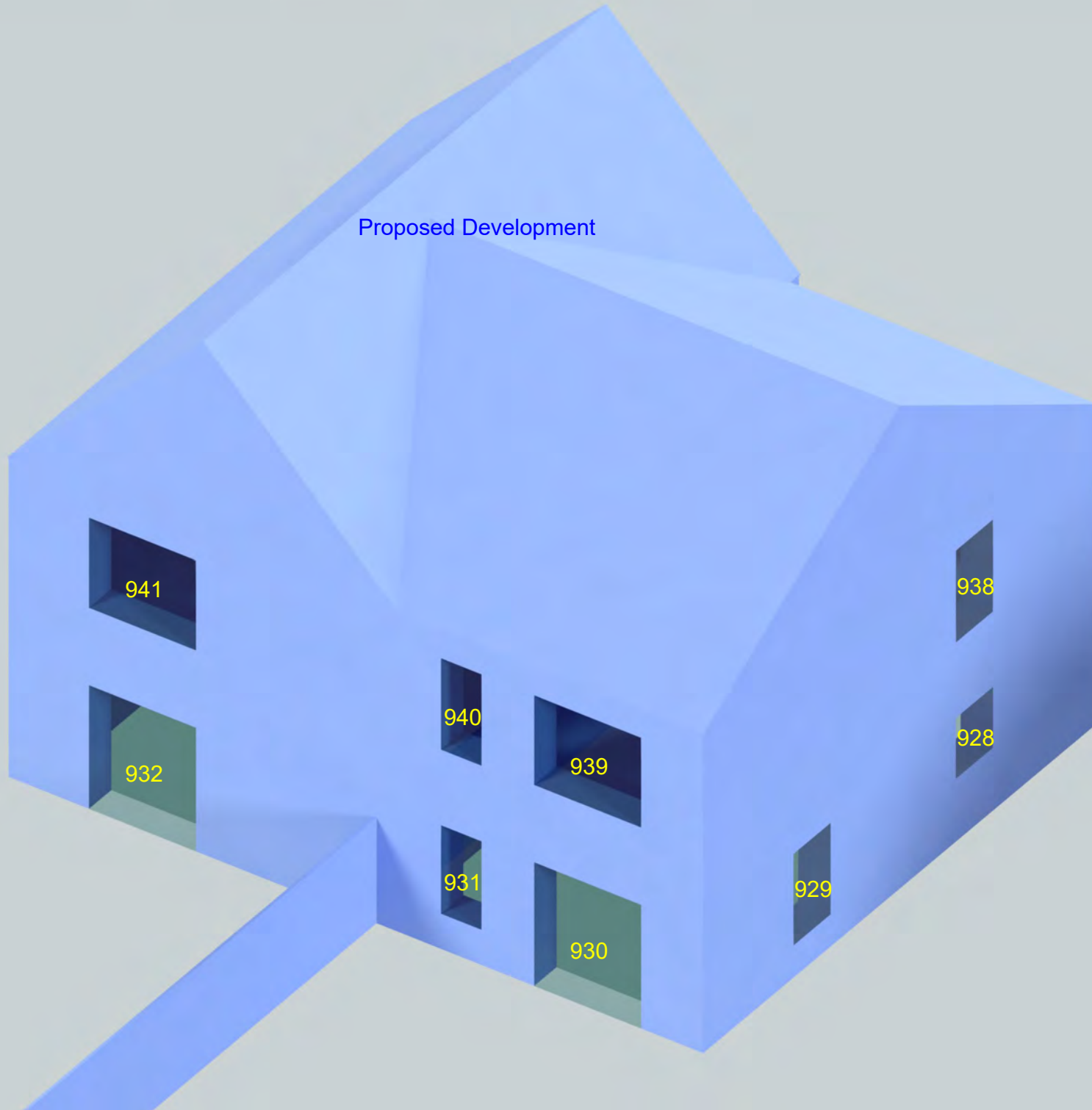
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Proposed Development



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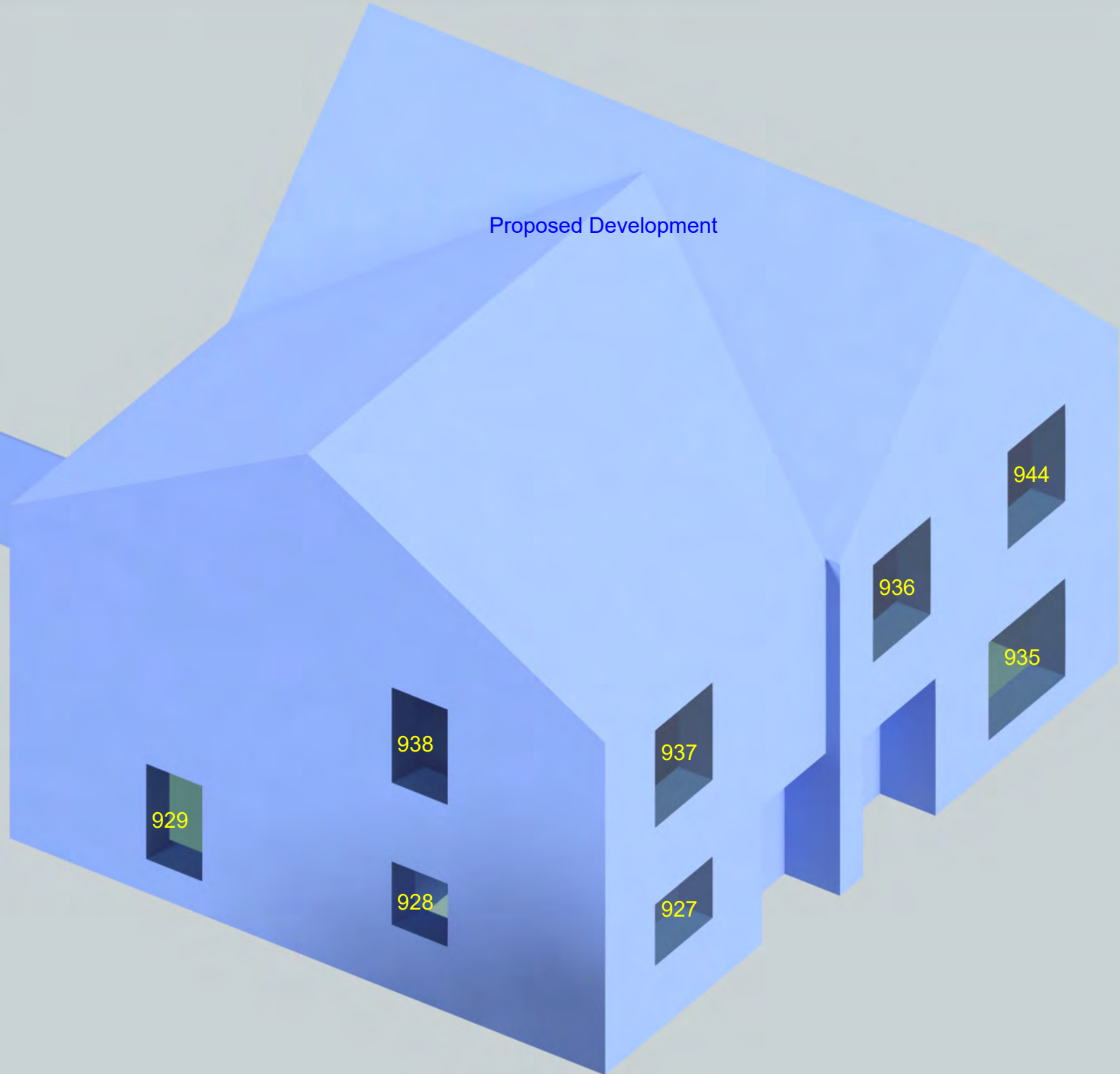
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Proposed Development



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Proposed Development

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Proposed Development

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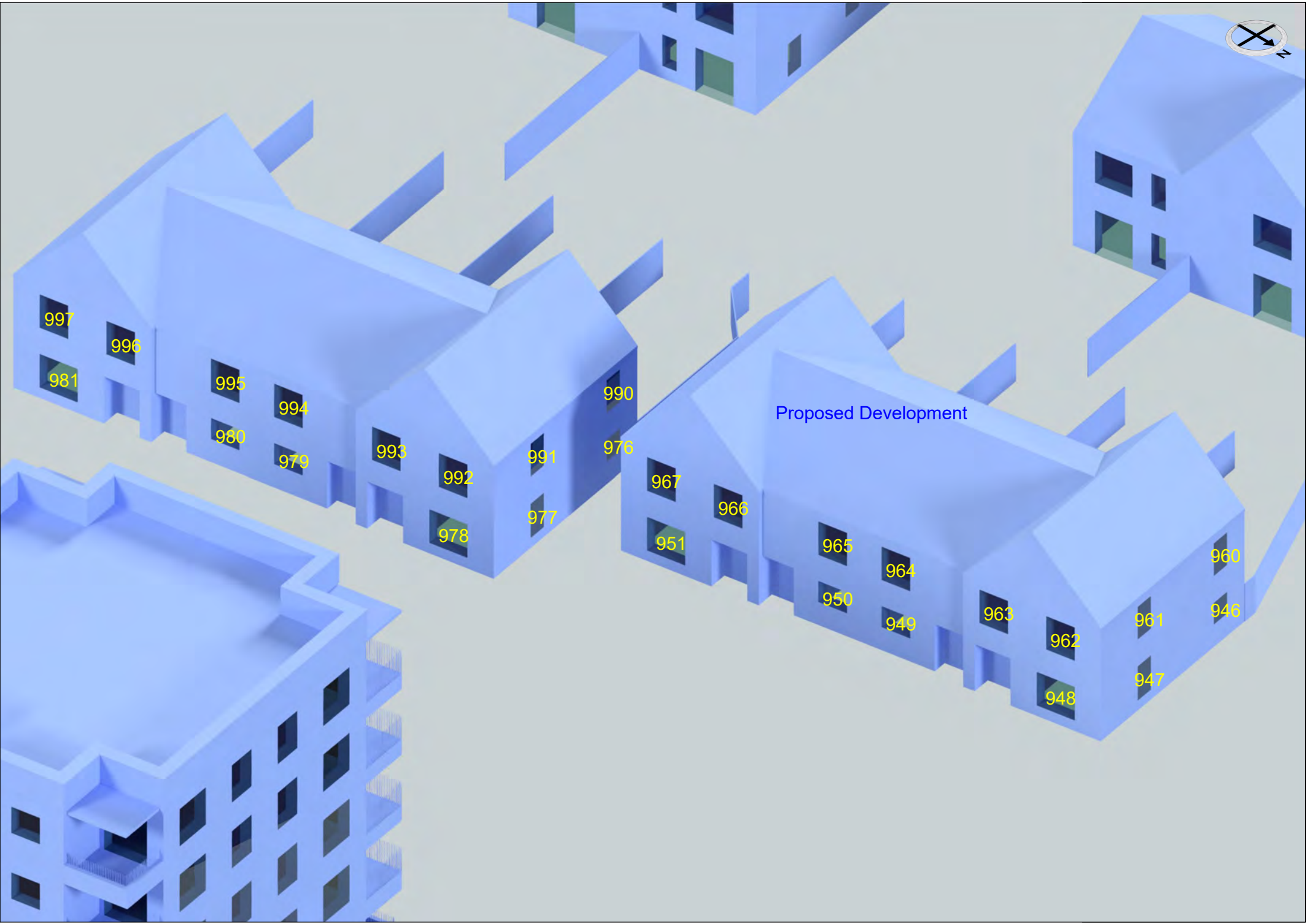
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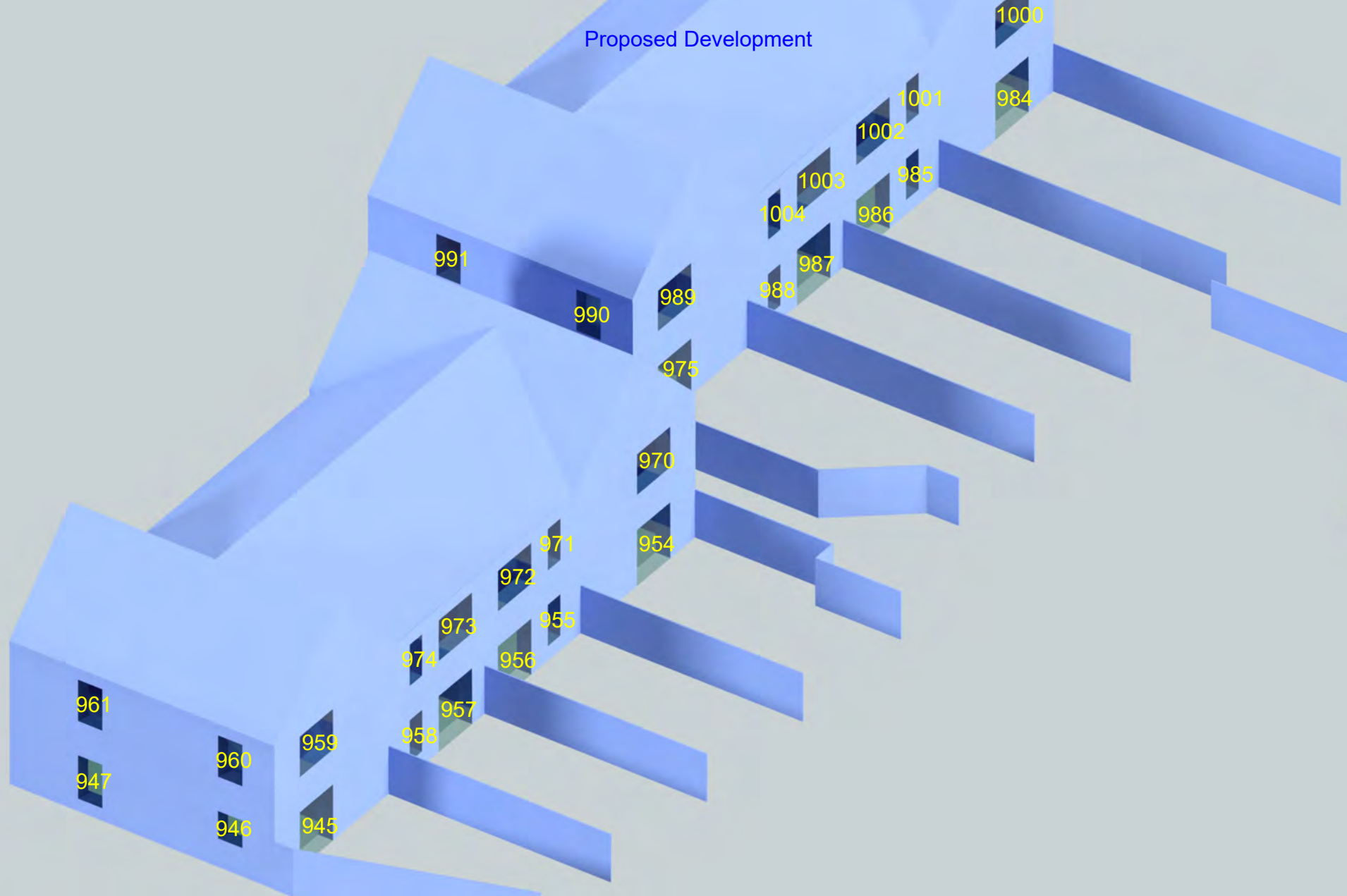
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Proposed Development

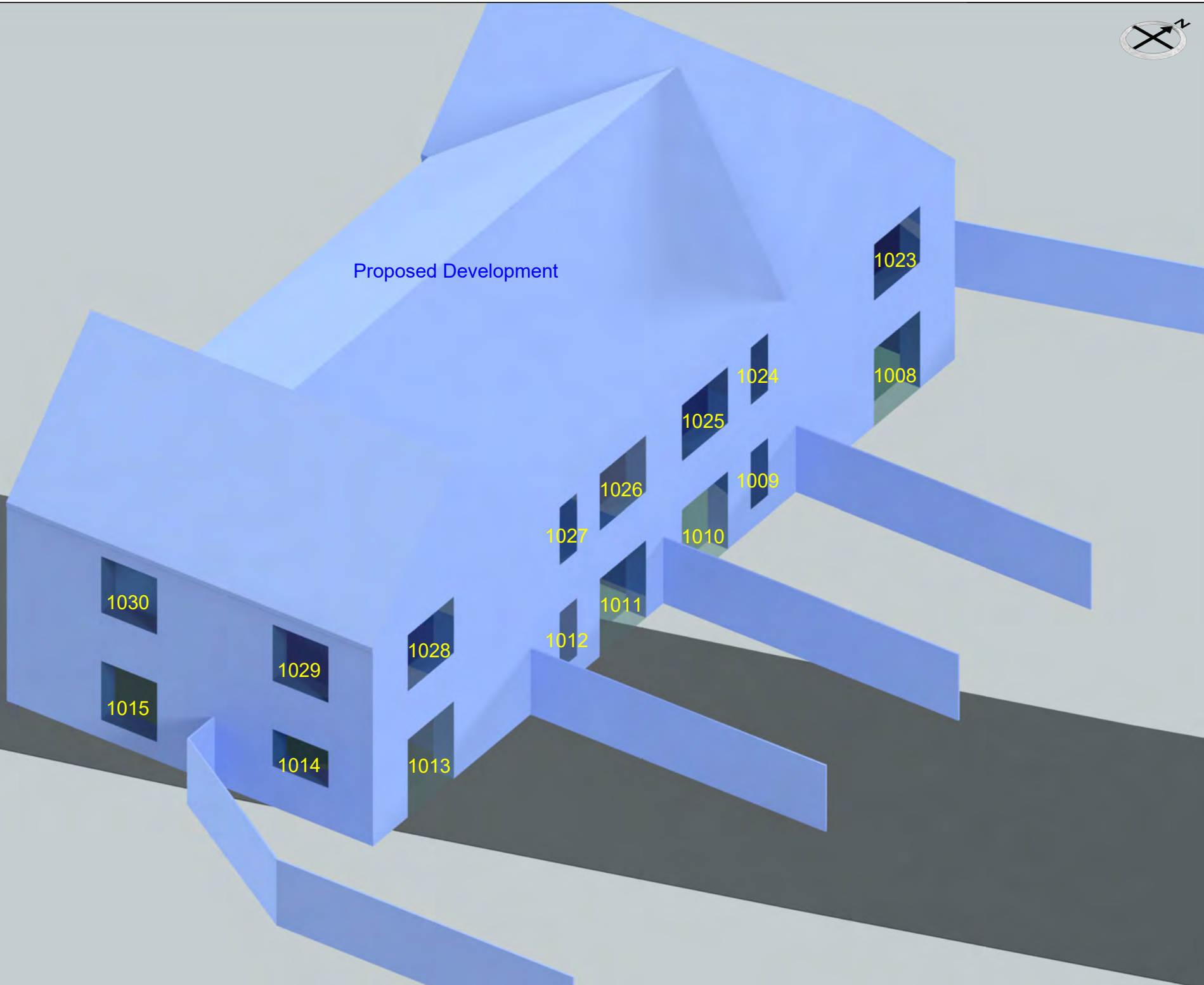


Proposed Development





Proposed Development



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Proposed Development

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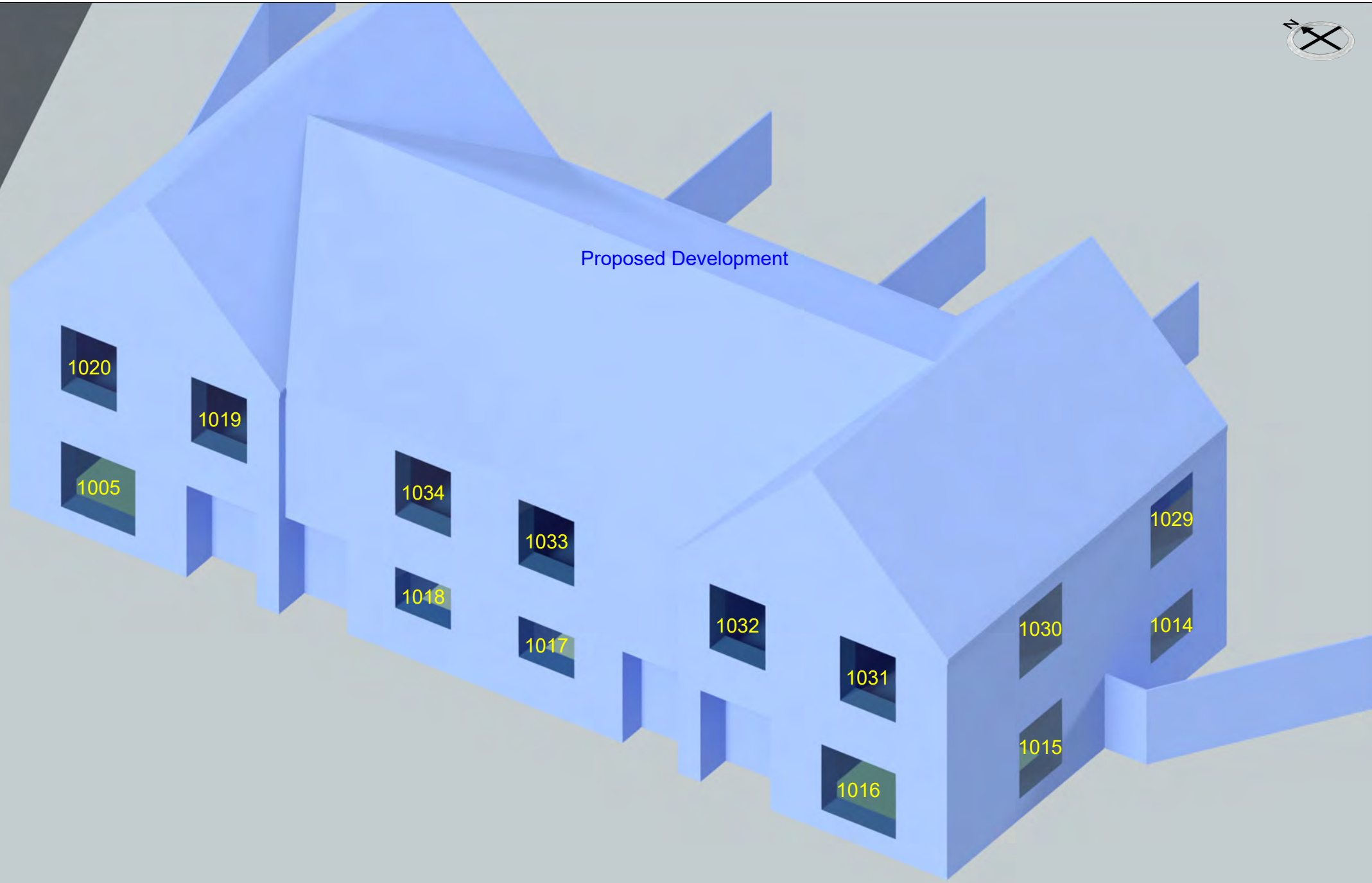
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Proposed Development

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Proposed Development

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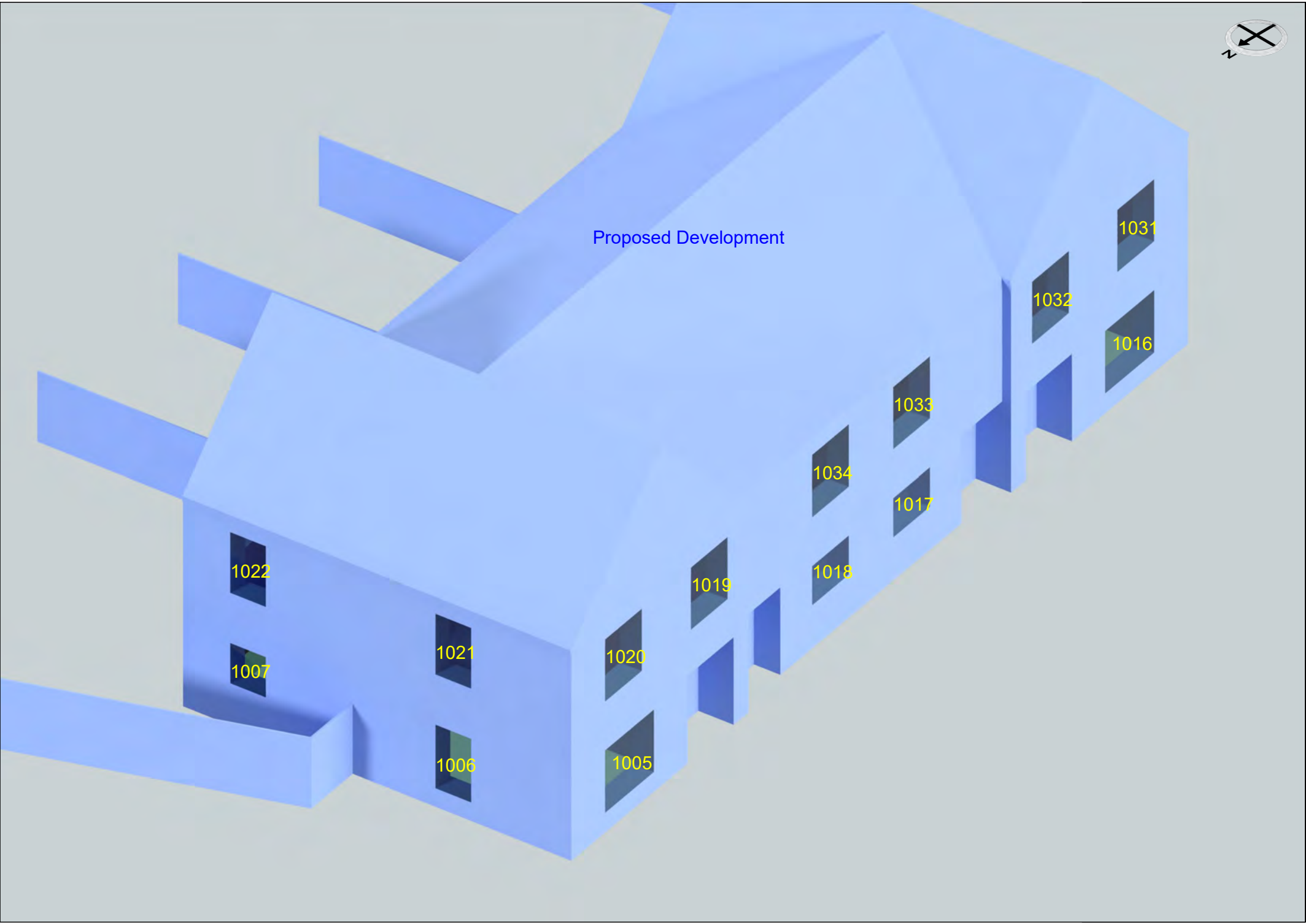
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Key:

- Window reference
- ⊙ G1 Gardens and Amenity Areas
- ▨ Area receives no direct sky light (applied to habitable rooms)
- Area does receive direct sky light.
- ▬ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

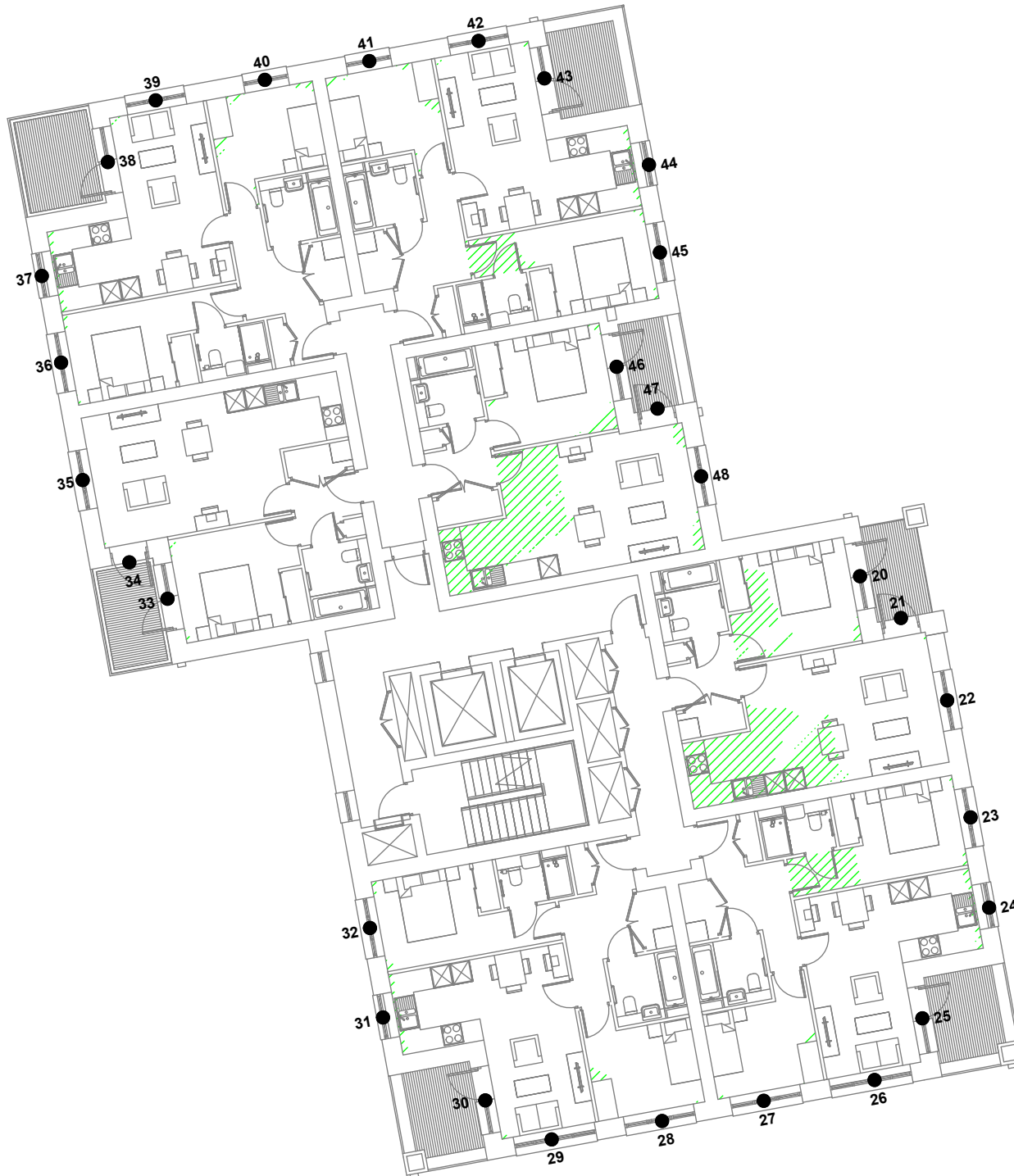
Scale: Do not scale

Drawing No: 1 of 45 Rev. .

Rev	Date	Details of revision



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Key:

- Window reference
- ⊙ G1 Gardens and Amenity Areas
- ▨ Area receives no direct sky light (applied to habitable rooms)
- Area does receive direct sky light.
- ▭ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

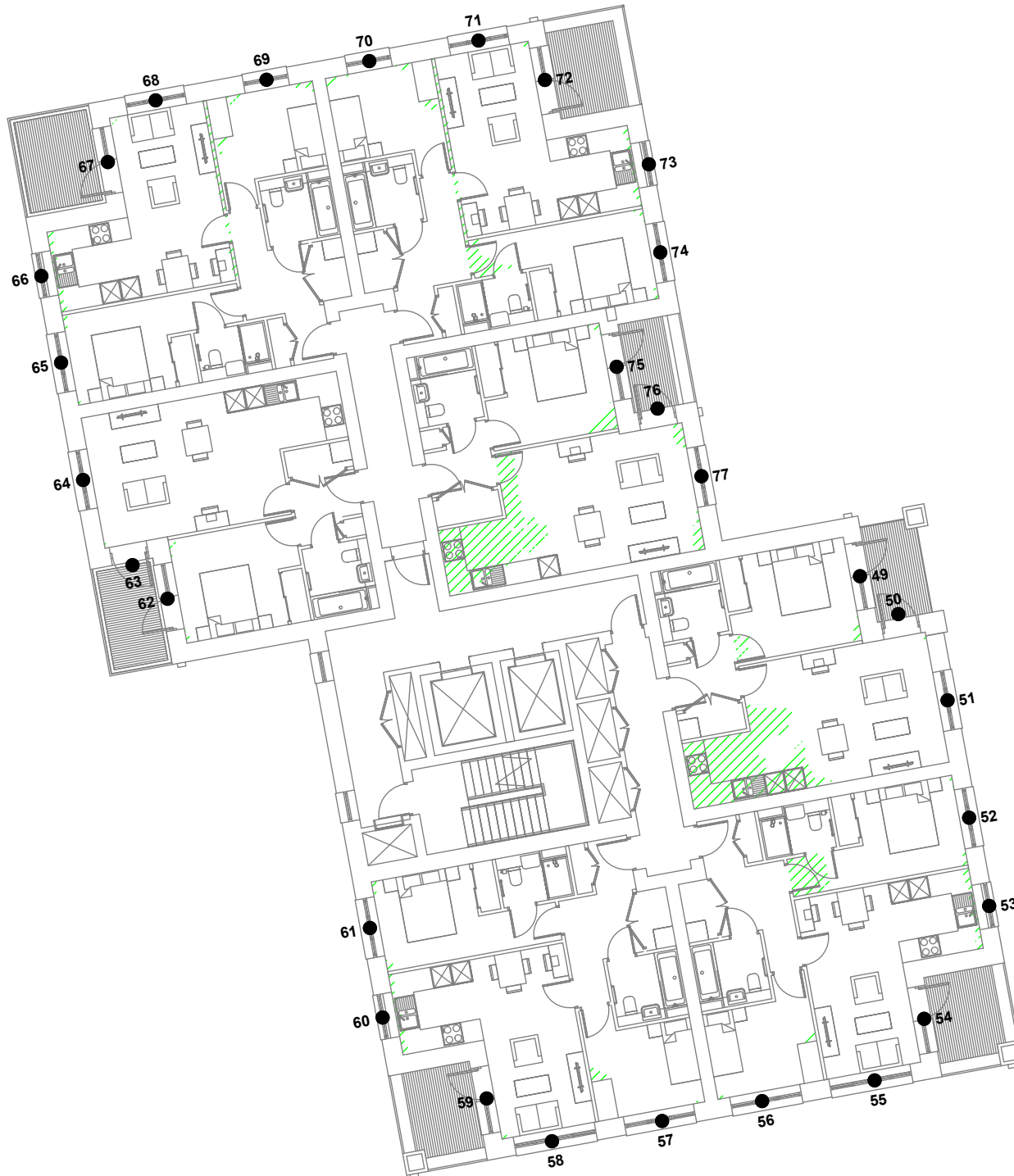
Scale: Do not scale

Drawing No: 2 of 45 Rev. .

Rev	Date	Details of revision



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Key:

- Window reference
- ⊙ G1 Gardens and Amenity Areas
- ▨ Area receives no direct sky light (applied to habitable rooms)
- Area does receive direct sky light.
- ▨ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

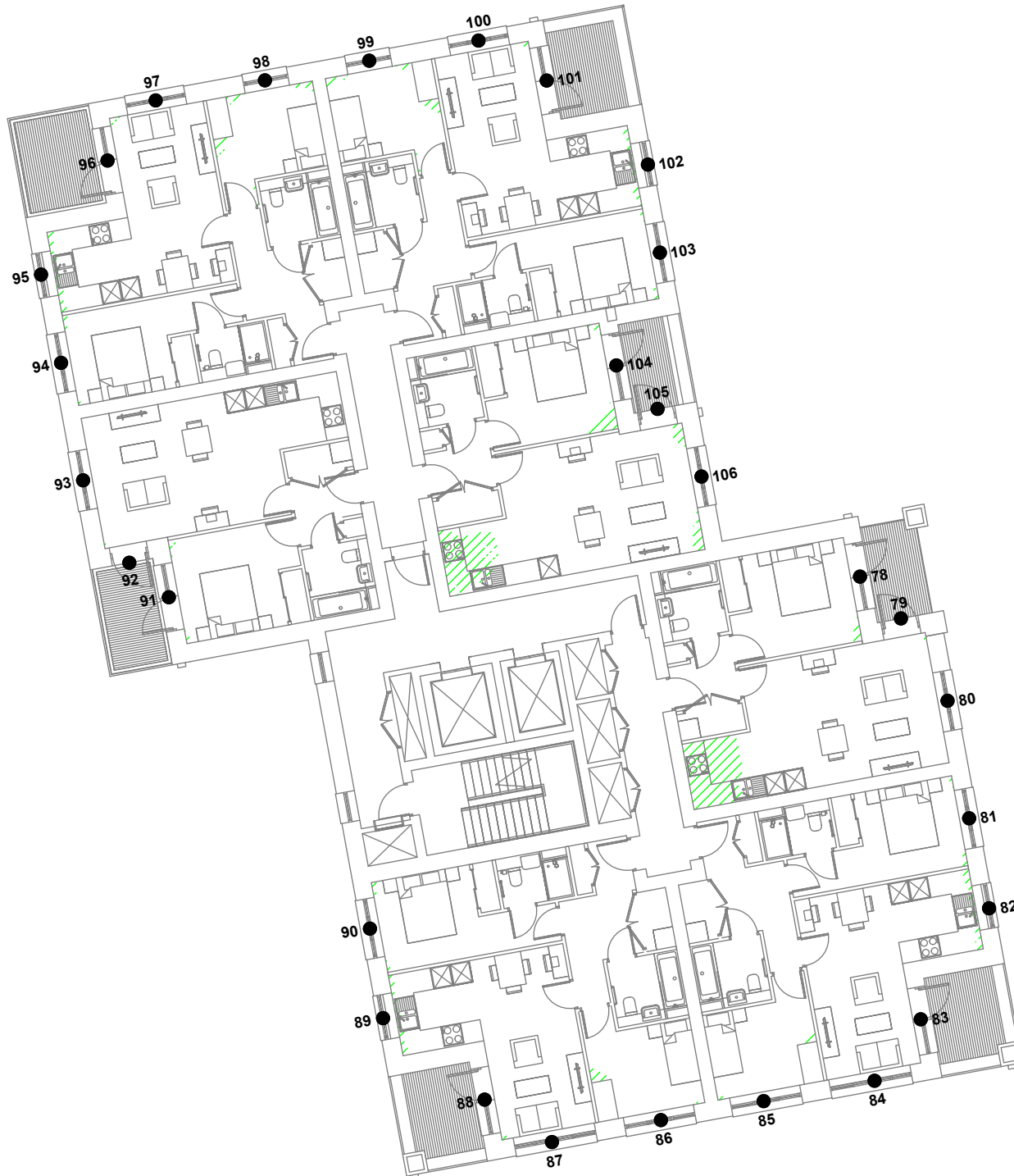
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Drawing No: 3 of 45 Rev. .

Rev	Date	Details of revision



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Key:

- Window reference
- ⊙ G1 Gardens and Amenity Areas
- ▨ Area receives no direct sky light (applied to habitable rooms)
- Area does receive direct sky light.
- ▨ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

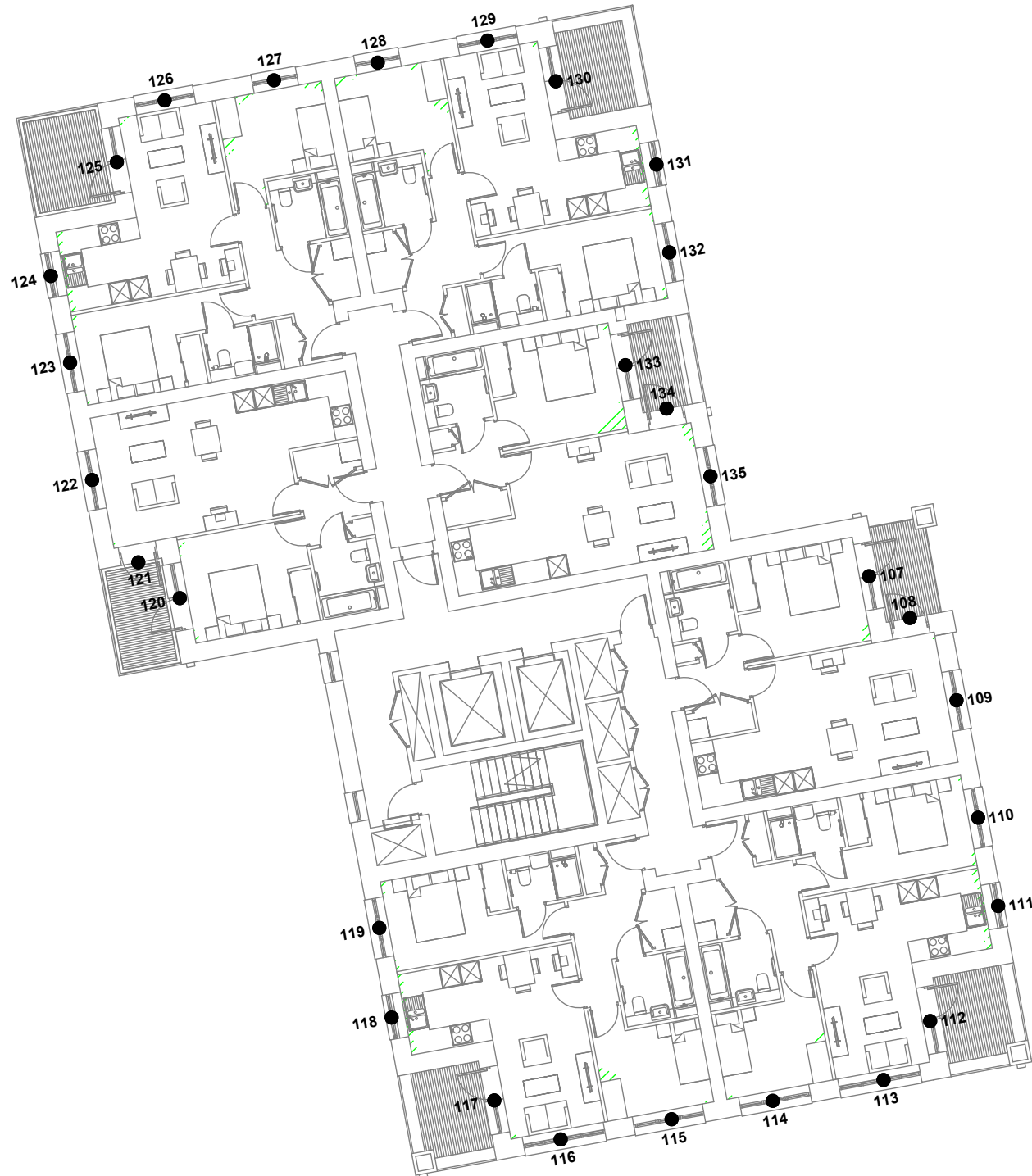
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Drawing No: 4 of 45 Rev. .

Rev	Date	Details of revision



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Key:

- Window reference
- ⊙ G1 Gardens and Amenity Areas
- ▨ Area receives no direct sky light (applied to habitable rooms)
- Area does receive direct sky light.
- ▨ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

Drawing No: 5 of 45 Rev. .

Rev	Date	Details of revision



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Key:

- Window reference
- ⊙ G1 Gardens and Amenity Areas
- ▨ Area receives no direct sky light (applied to habitable rooms)
- Area does receive direct sky light.
- ══ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

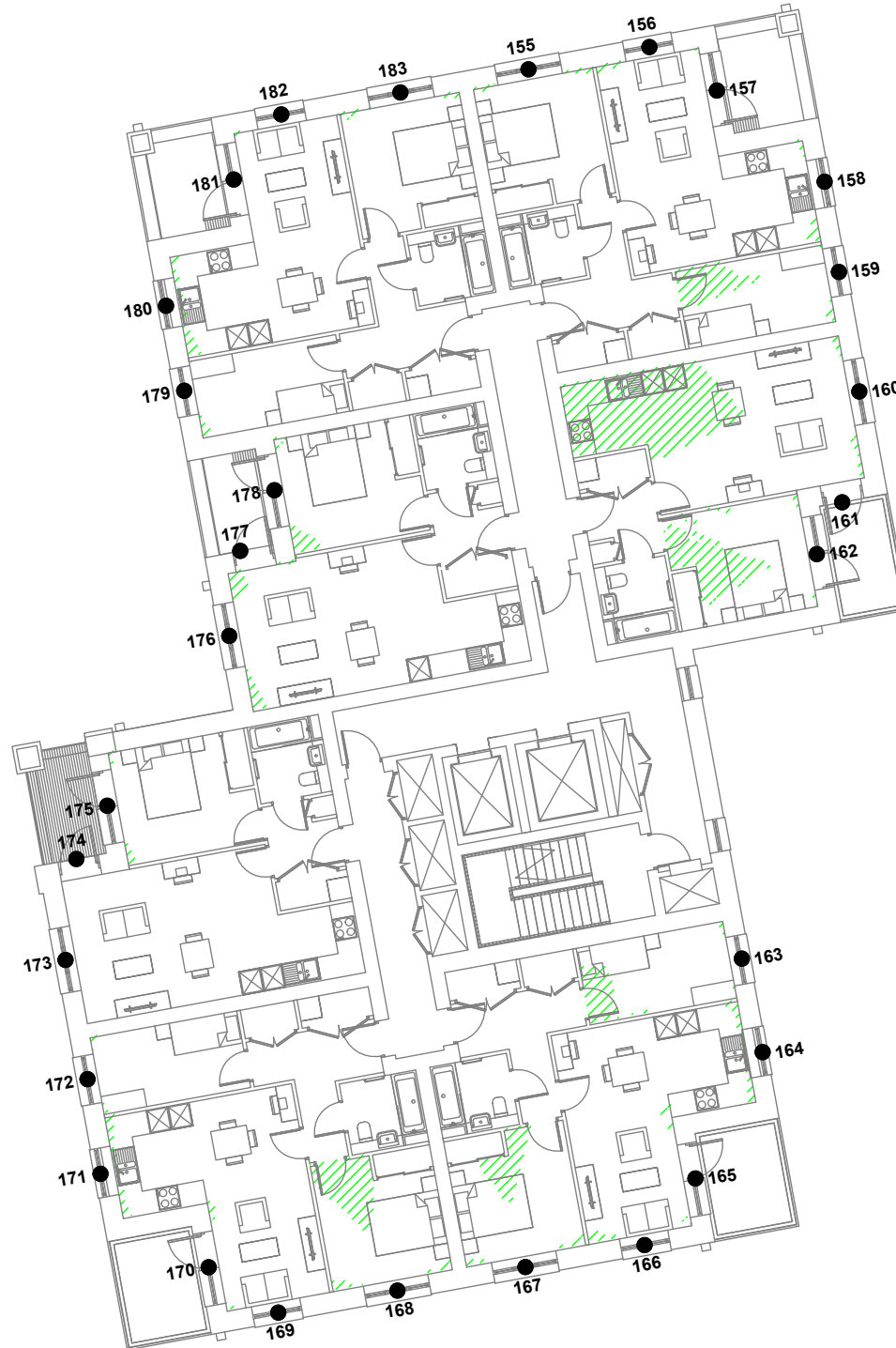
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Drawing No: 6 of 45 Rev. .

Rev	Date	Details of revision



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Key:

- Window reference
- ⊙ G1 Gardens and Amenity Areas
- ▨ Area receives no direct sky light (applied to habitable rooms)
- Area does receive direct sky light.
- ▬ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

Drawing No: 7 of 45 Rev. .

Rev	Date	Details of revision



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Key:

- Window reference
- ⊙ G1 Gardens and Amenity Areas
- ▨ Area receives no direct sky light (applied to habitable rooms)
- Area does receive direct sky light.
- ▬▬ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

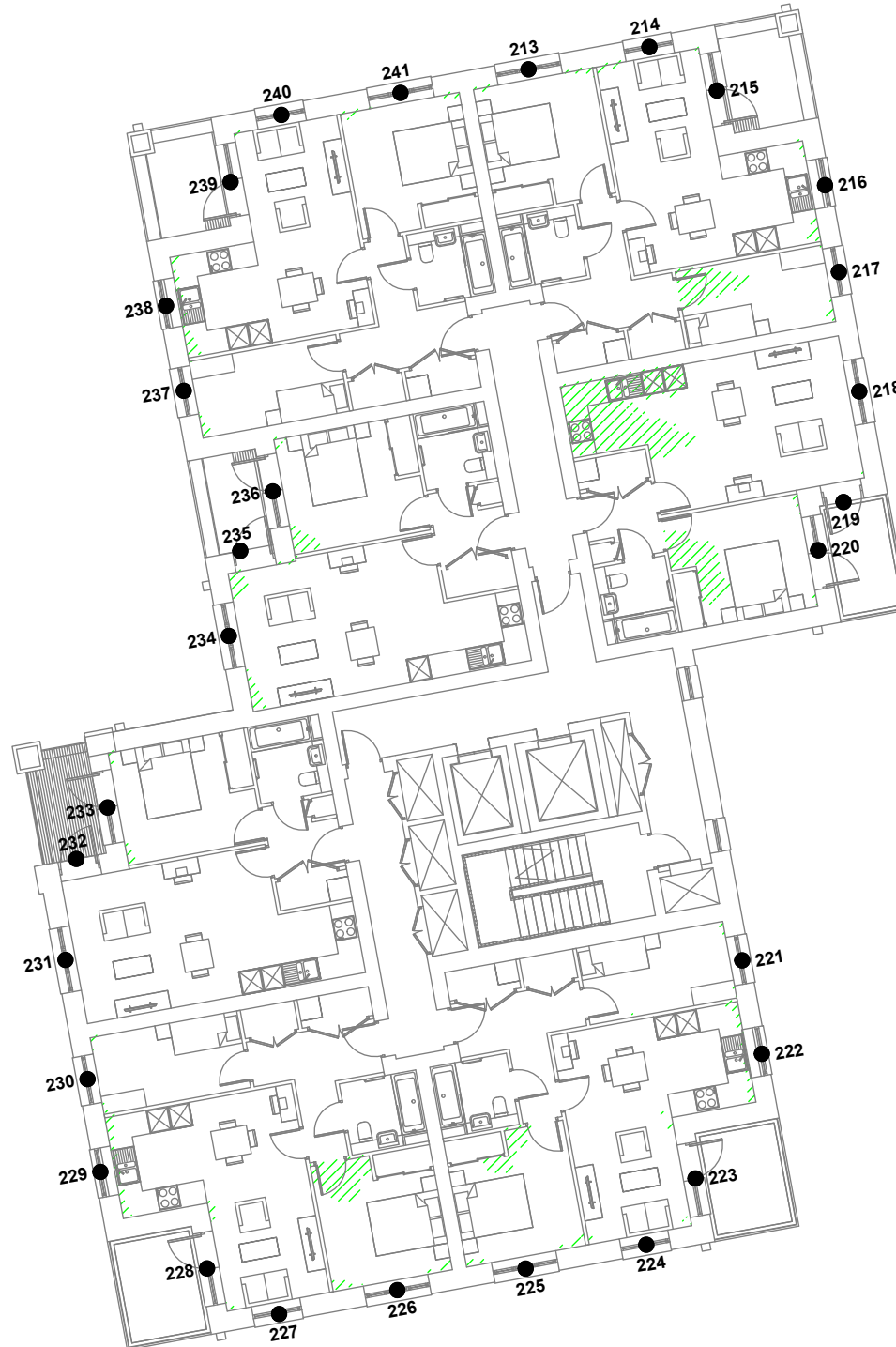
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Drawing No: 8 of 45 Rev. .

Rev	Date	Details of revision



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Key:

- Window reference
- ⊙ G1 Gardens and Amenity Areas
- ▨ Area receives no direct sky light (applied to habitable rooms)
- Area does receive direct sky light.
- ▬▬ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

Drawing No: 9 of 45 Rev. .

Rev	Date	Details of revision

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Key:

- Window reference
- ⊙ G1 Gardens and Amenity Areas
- ▨ Area receives no direct sky light (applied to habitable rooms)
- Area does receive direct sky light.
- ▬▬ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

Drawing No: 10 of 45 Rev. .

Rev	Date	Details of revision



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Key:

- Window reference
- ⊙ G1 Gardens and Amenity Areas
- ▨ Area receives no direct sky light (applied to habitable rooms)
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- ▬ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

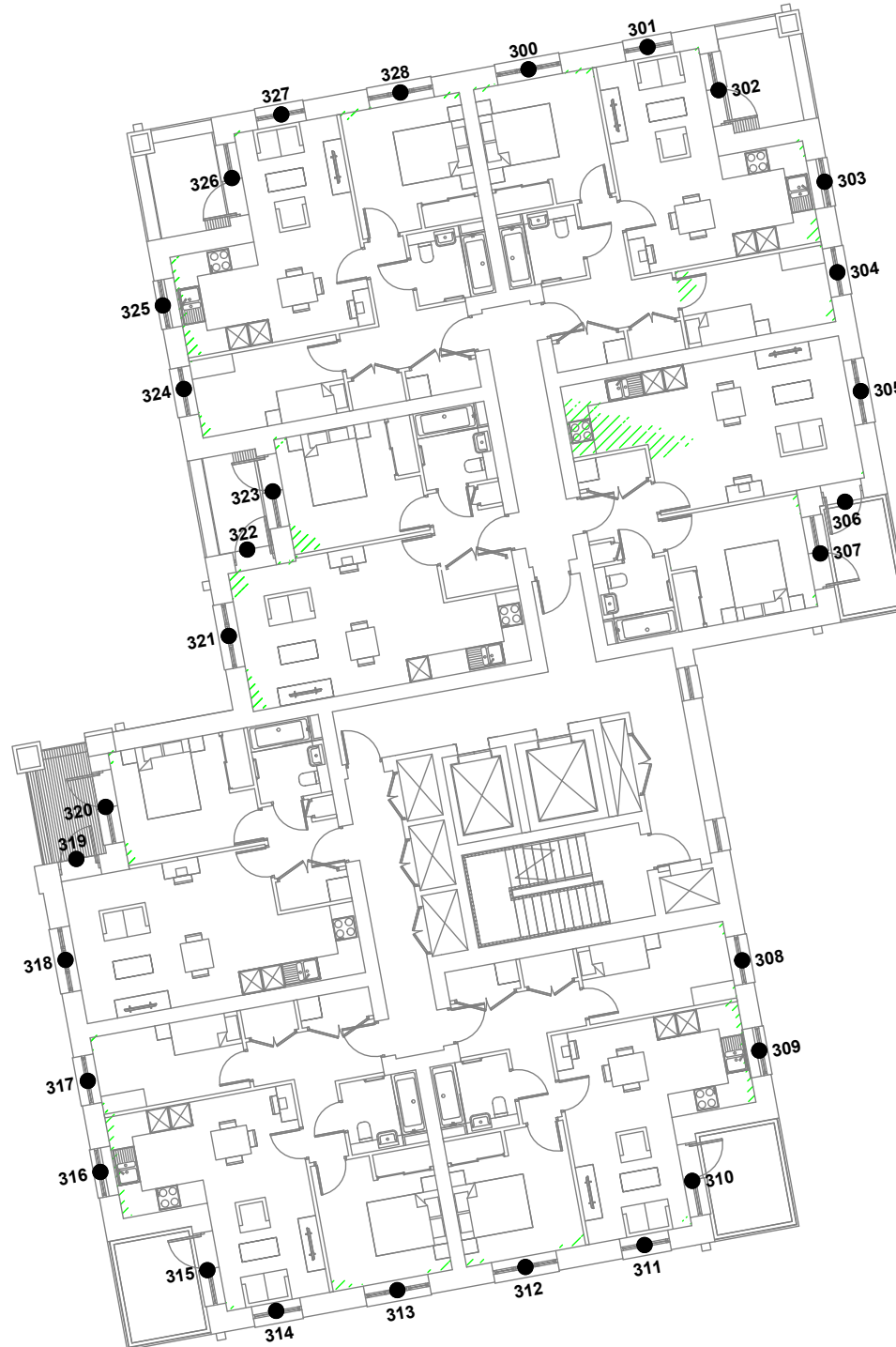
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Drawing No: 11 of 45 Rev. .

Rev	Date	Details of revision



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Key:

- Window reference
- ⊙ G1 Gardens and Amenity Areas
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- Area does receive direct sky light.
- ▬▬ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

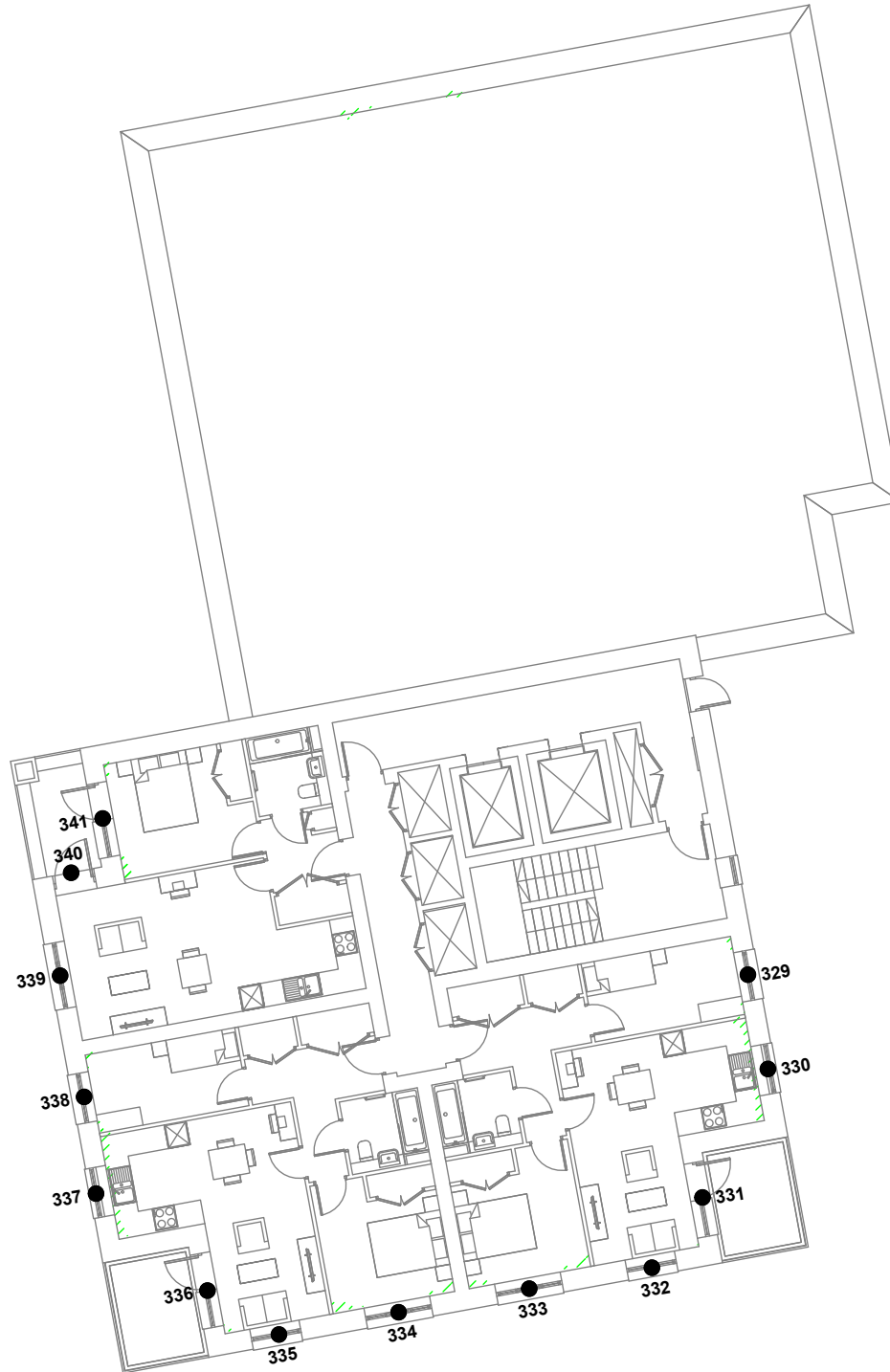
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Drawing No: 12 of 45 Rev. .

Rev	Date	Details of revision



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Key:

- Window reference
- ⊙ G1 Gardens and Amenity Areas
- ▨ Area receives no direct sky light (applied to habitable rooms)
- Area does receive direct sky light.
- ▬ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

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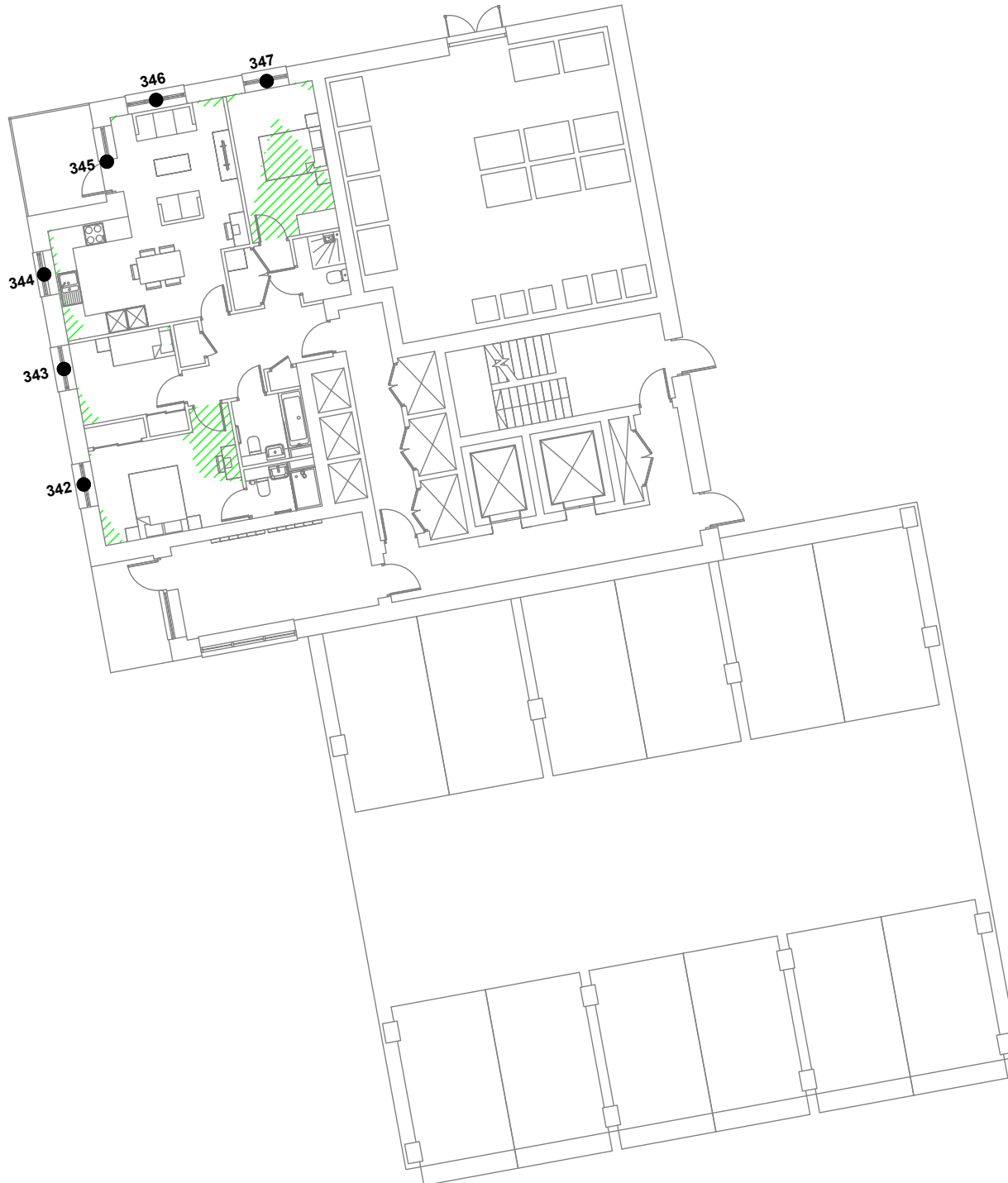
Drawing No: 13 of 45 Rev. .

Rev	Date	Details of revision



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Key:

- Window reference
- Ⓜ G1 Gardens and Amenity Areas
- ▨ Area receives no direct sky light (applied to habitable rooms)
- Area does receive direct sky light.
- ▬ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

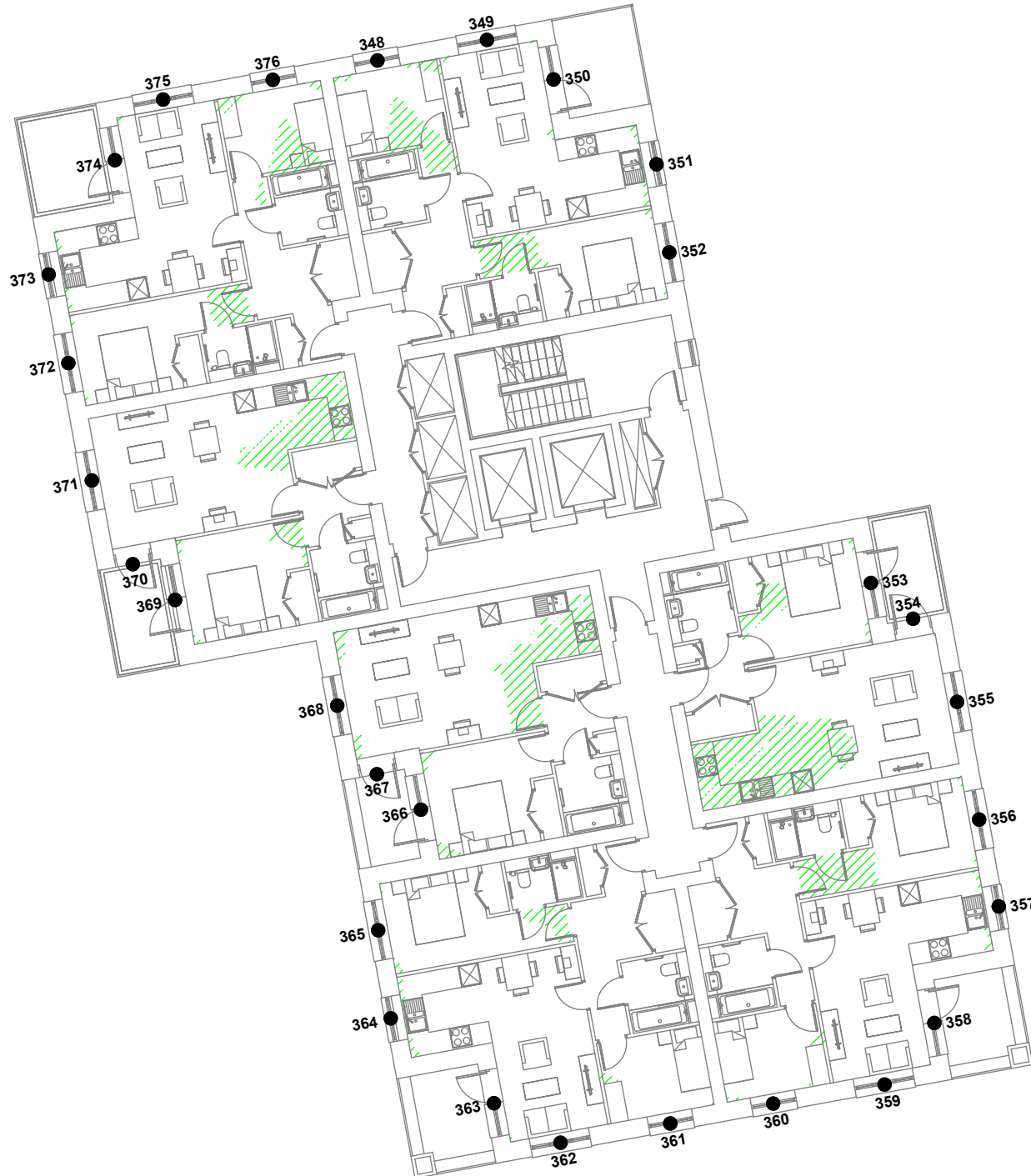
Drawing No: 14 of 45 Rev. .

Rev	Date	Details of revision



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Key:

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- Area does receive direct sky light.
- ▬▬ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

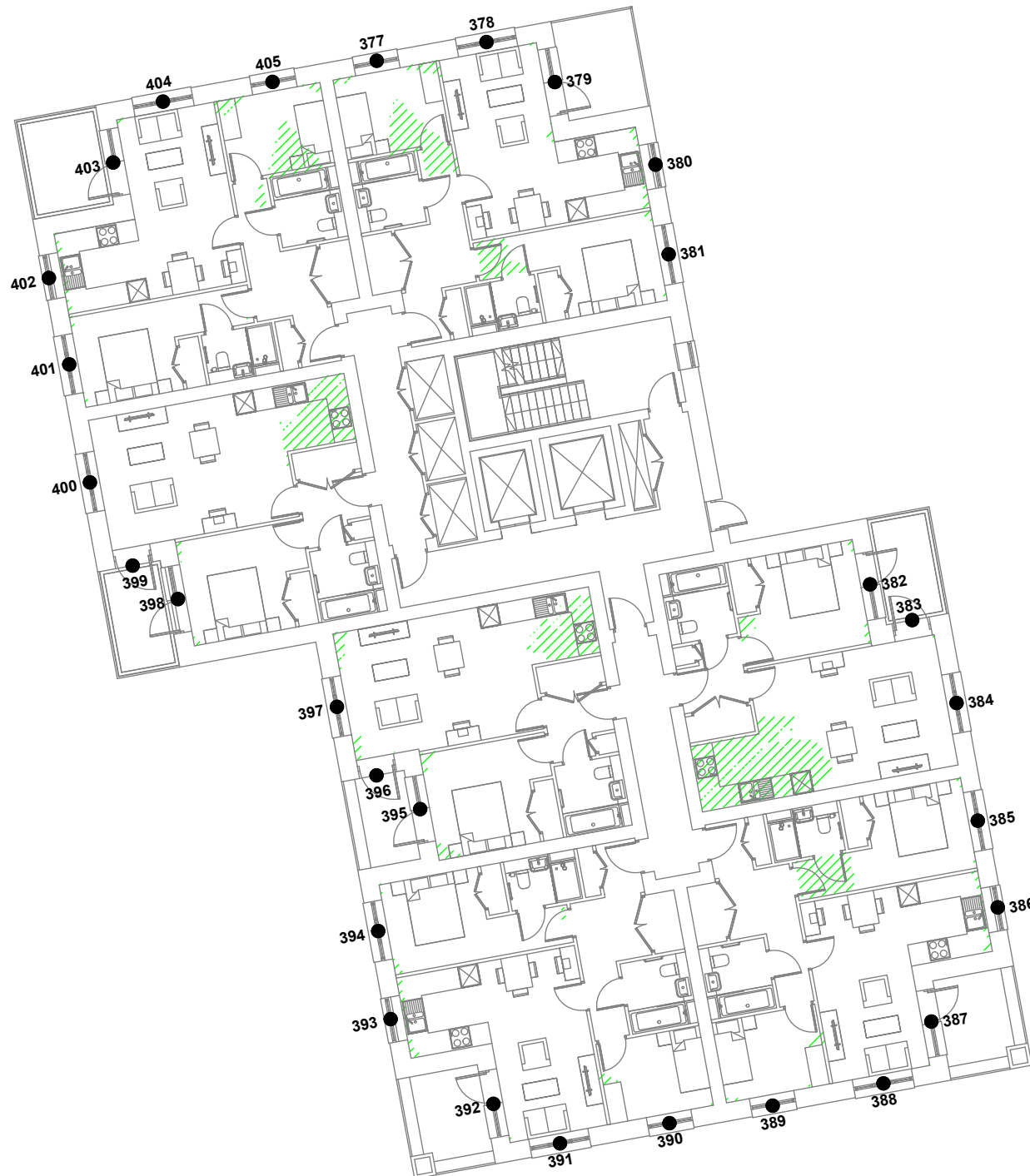
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Drawing No: 15 of 45 Rev. .

Rev	Date	Details of revision



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Key:

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- ▬▬ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

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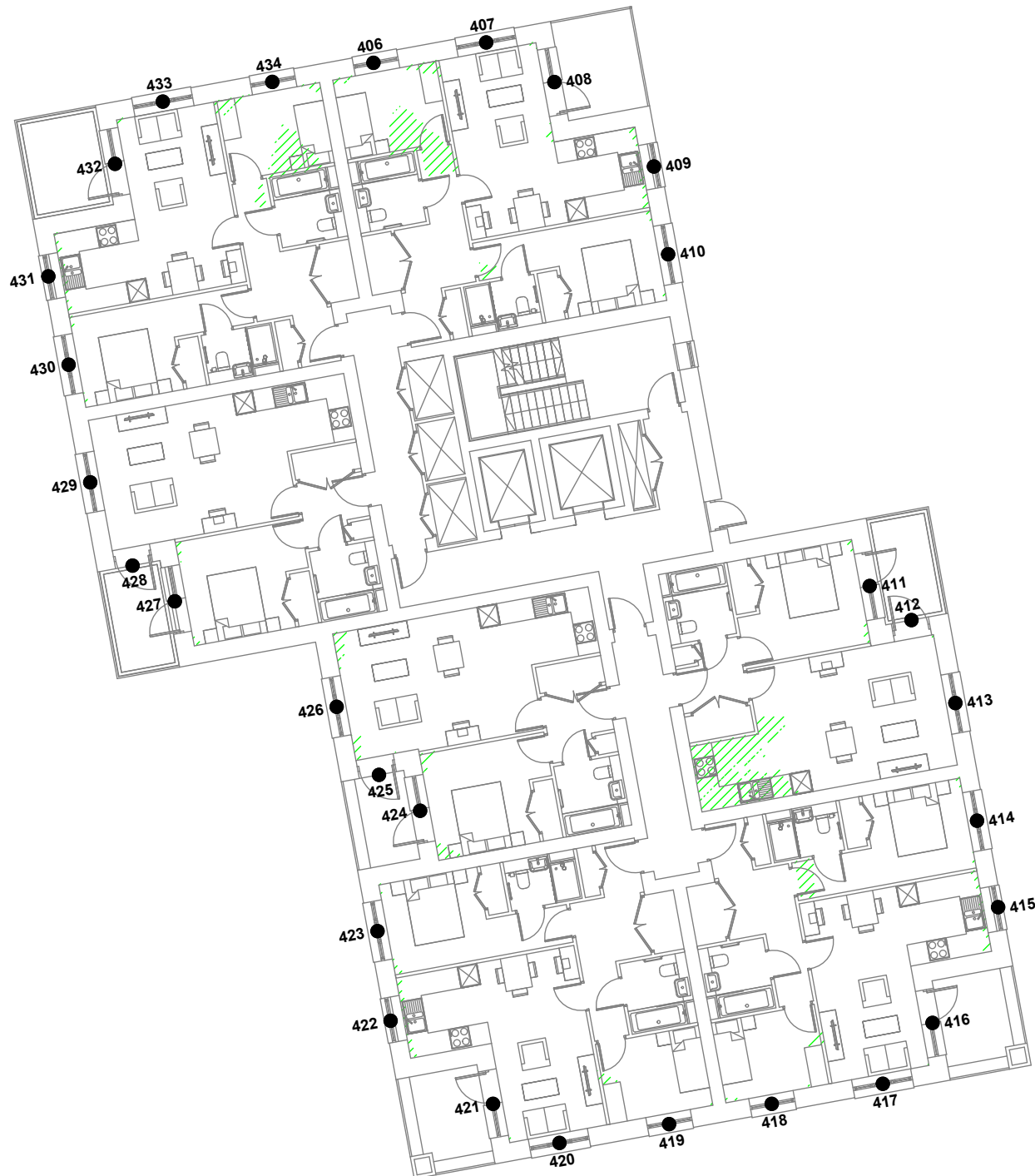
Drawing No: 16 of 45

Rev. .

Rev	Date	Details of revision



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Key:

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- ⊙ G1 Gardens and Amenity Areas
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- ▬▬ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

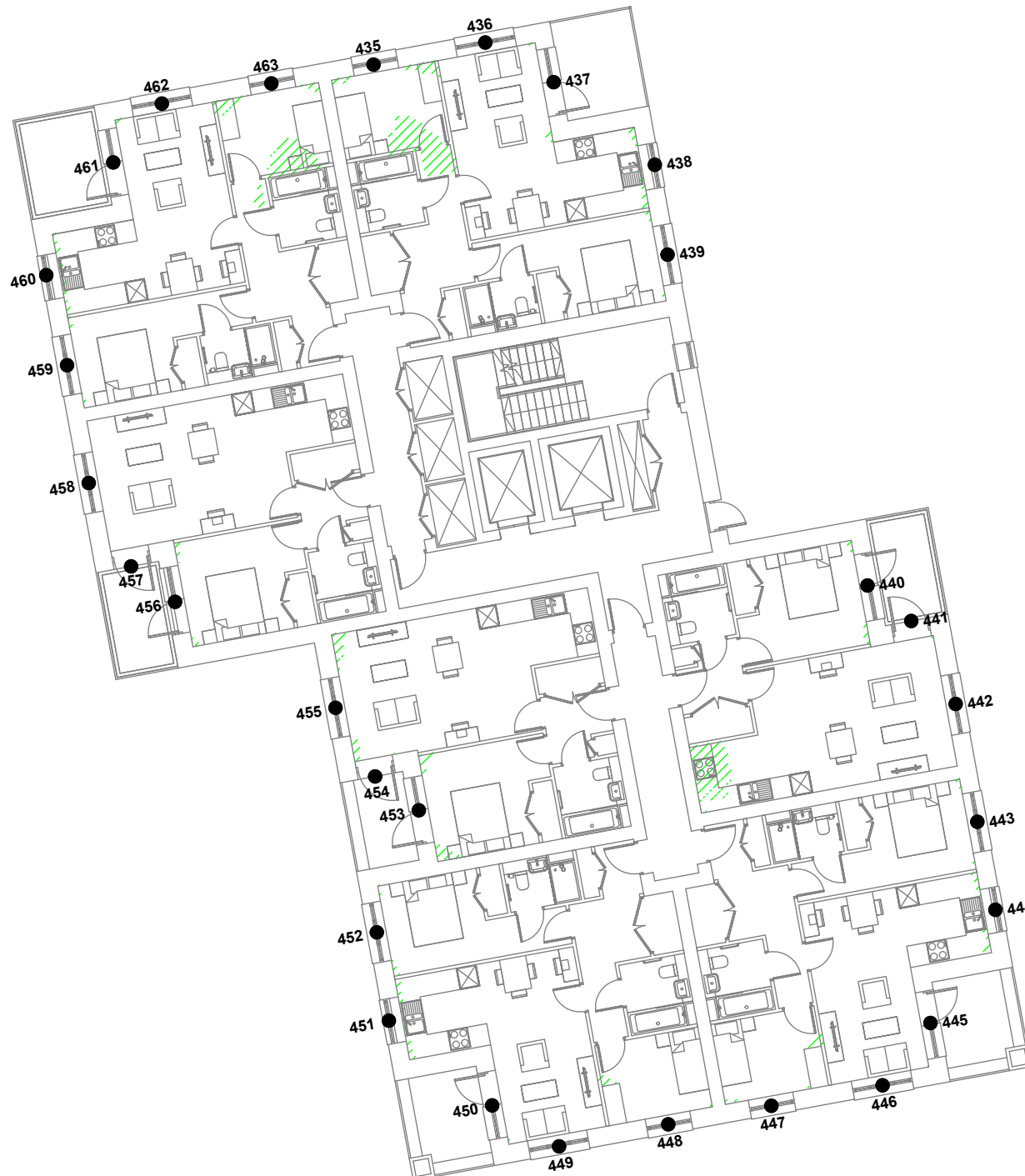
Drawing No: 17 of 45

Rev. .

Rev	Date	Details of revision



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Key:

- Window reference
- ⊙ G1 Gardens and Amenity Areas
- ▨ Area receives no direct sky light (applied to habitable rooms)
- Area does receive direct sky light.
- ══ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

Drawing No: 18 of 45

Rev. .

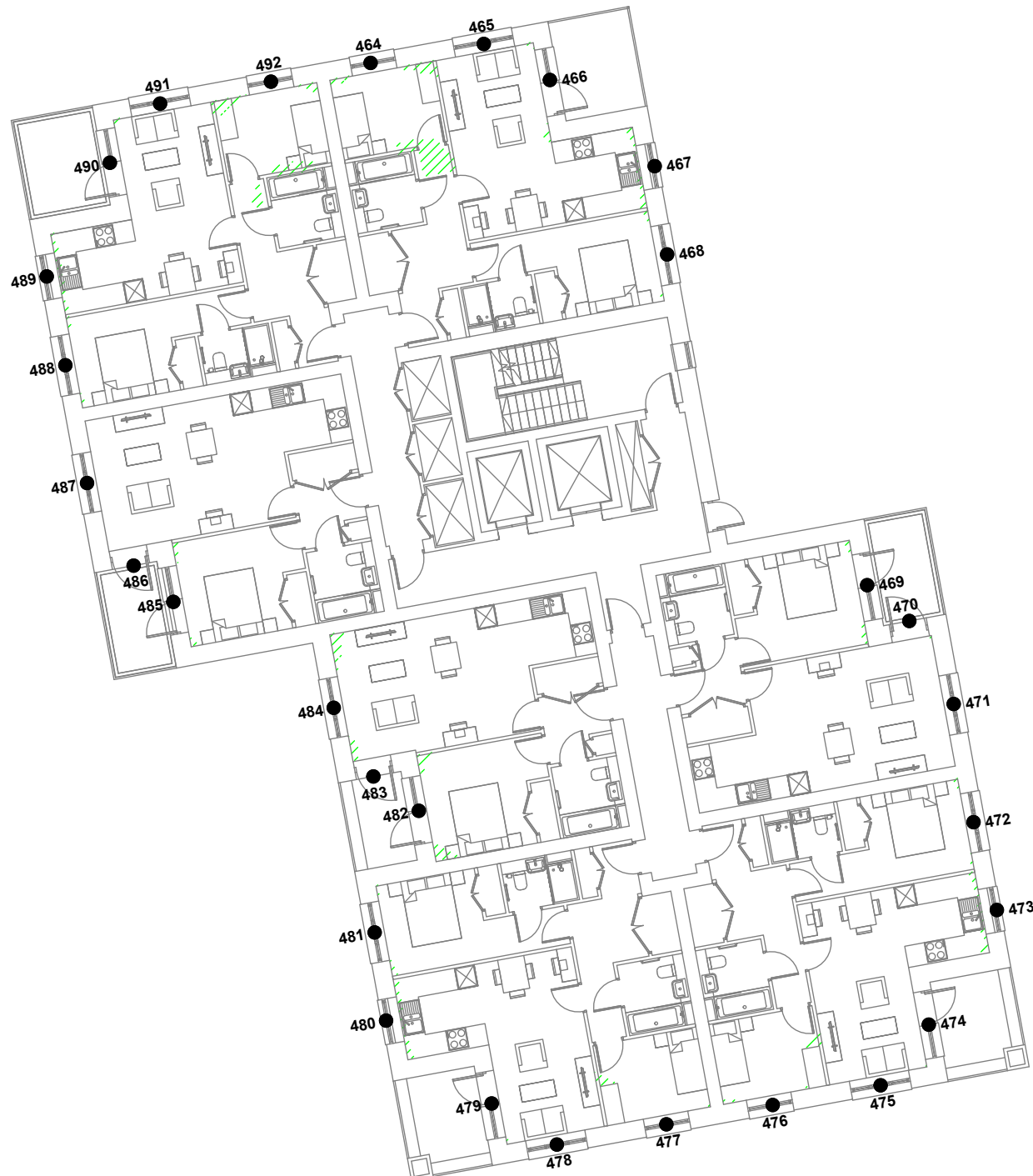
Rev	Date	Details of revision



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Key:

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- ⊙ G1 Gardens and Amenity Areas
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Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

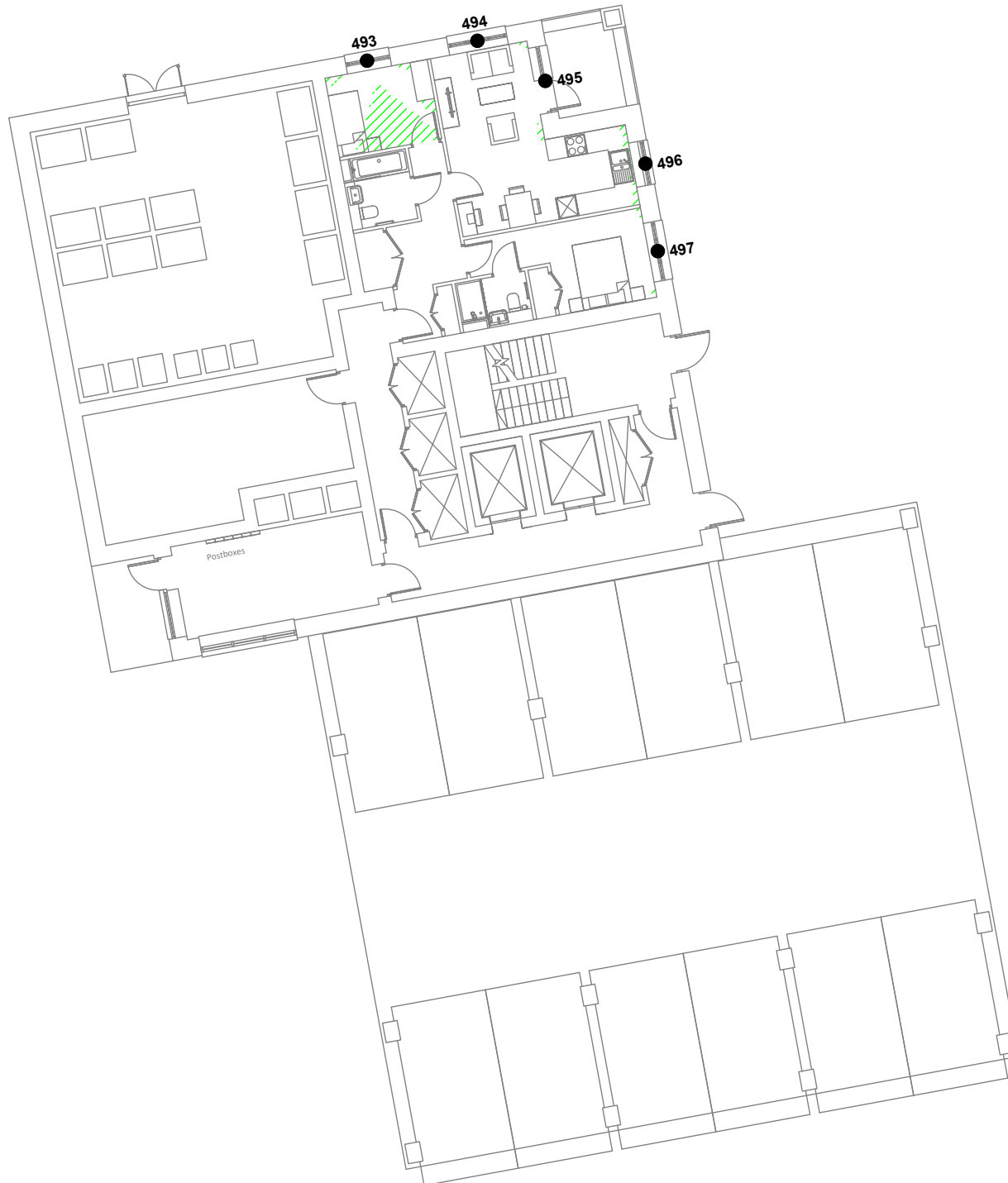
Drawing No: 19 of 45

Rev. .

Rev	Date	Details of revision



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Key:

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- ▨ Area receives no direct sky light (applied to habitable rooms)
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- ▬ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

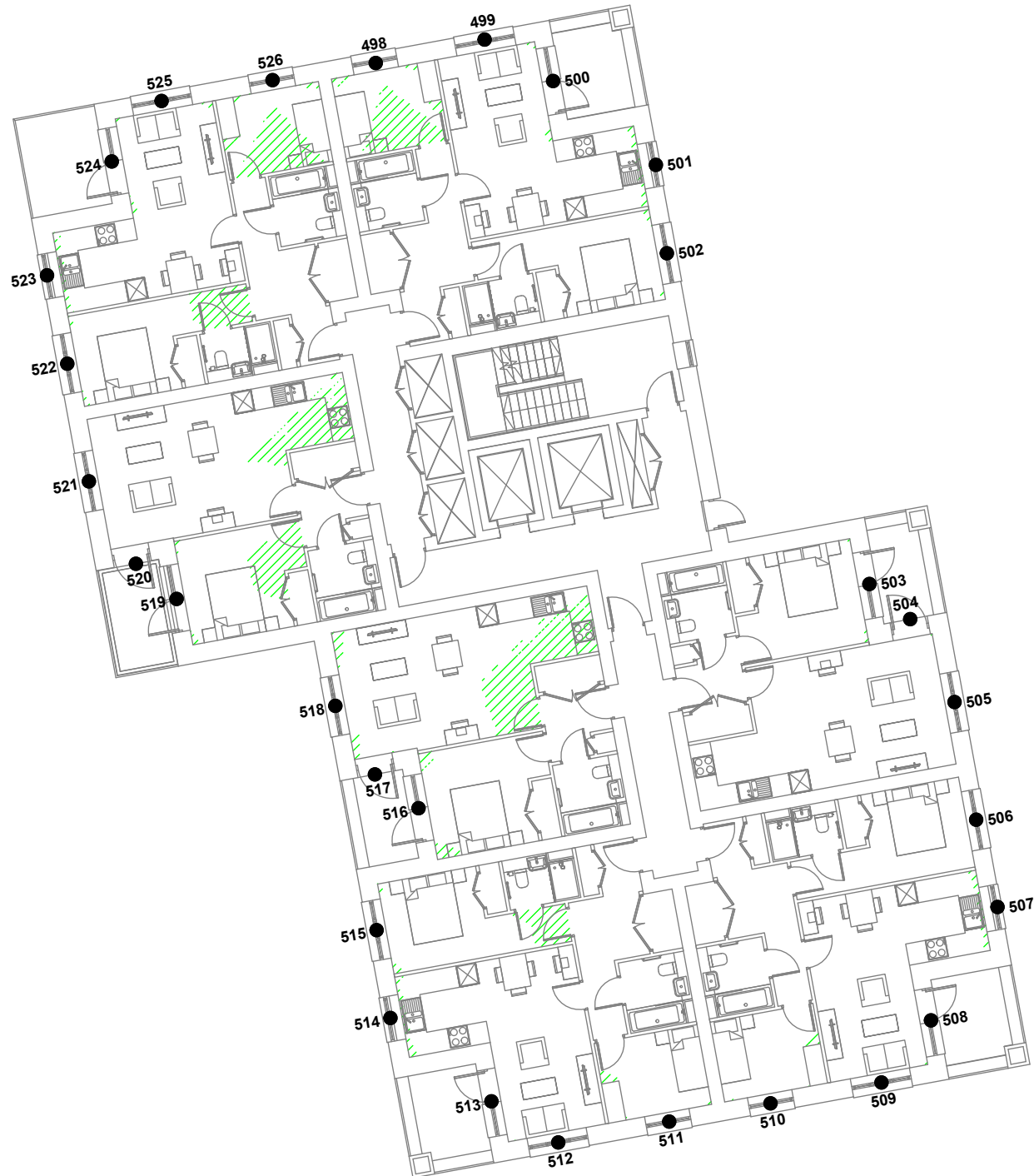
Drawing No: 20 of 45

Rev. .

Rev	Date	Details of revision



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Key:

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- Area does receive direct sky light.
- ▭ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

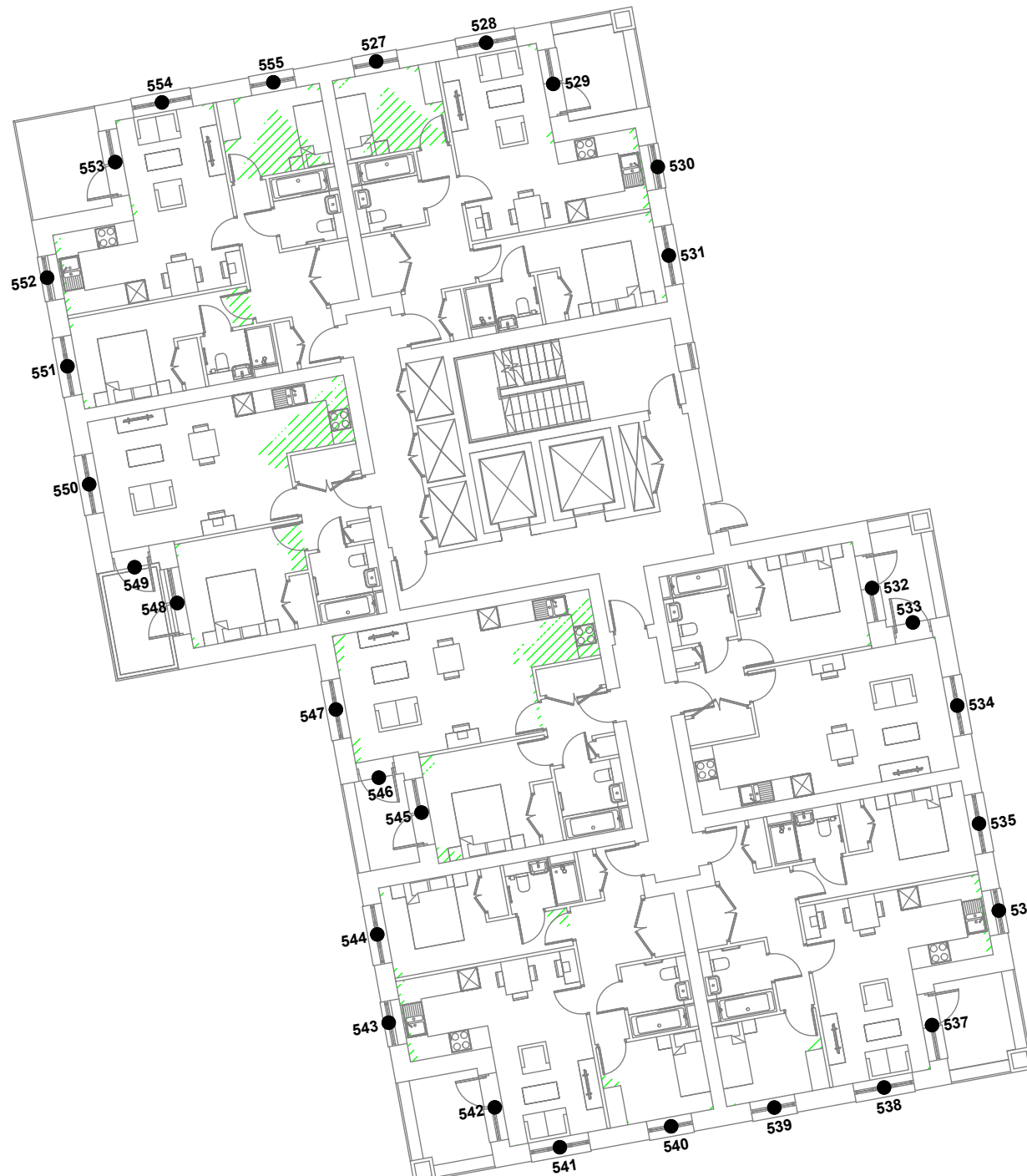
Drawing No: 21 of 45

Rev. .

Rev	Date	Details of revision



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Key:

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- ▬▬ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

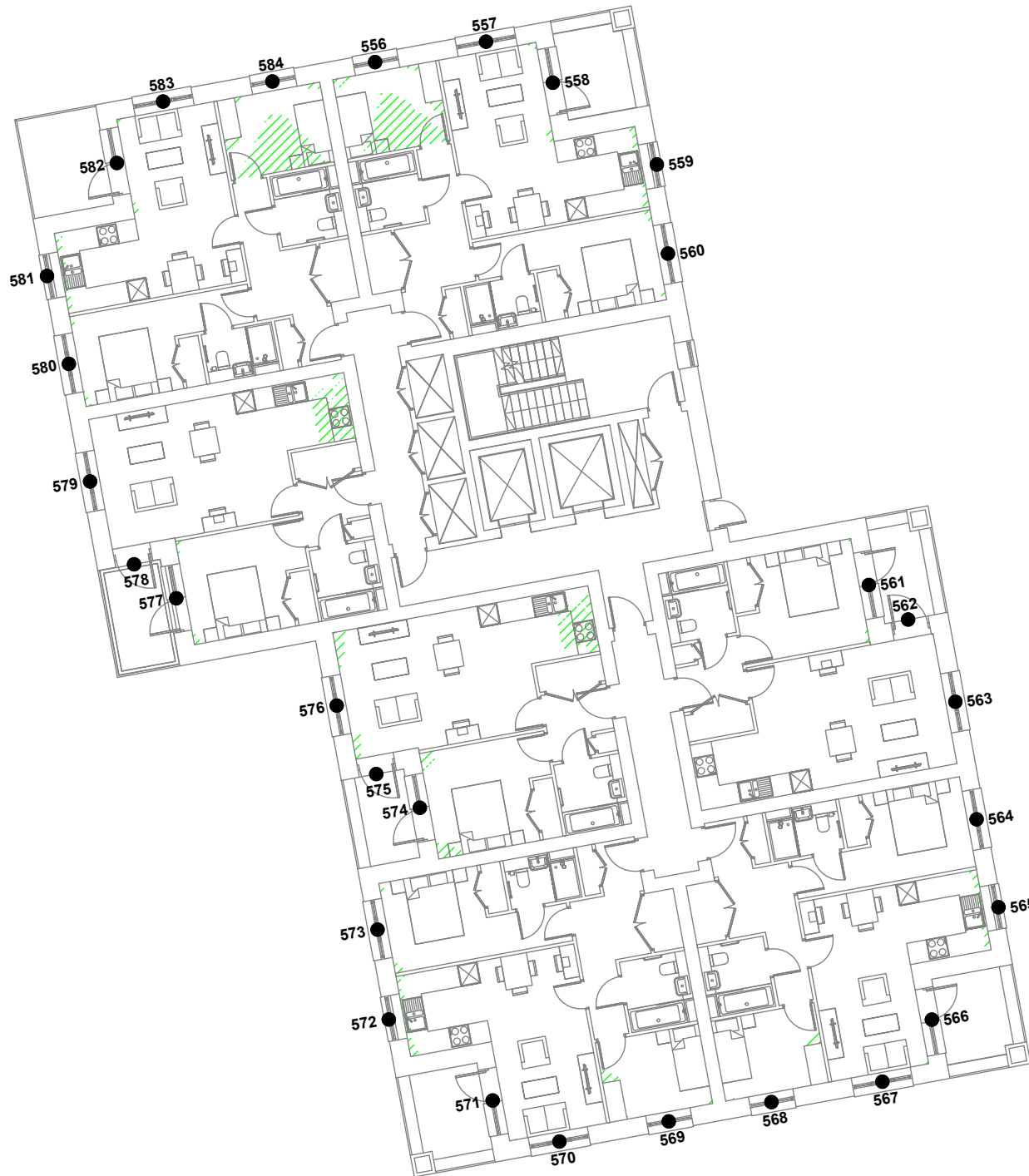
Drawing No: 22 of 45

Rev. .

Rev	Date	Details of revision



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Key:

- Window reference
- ⊙ G1 Gardens and Amenity Areas
- ▨ Area receives no direct sky light (applied to habitable rooms)
- Area does receive direct sky light.
- ▬▬ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

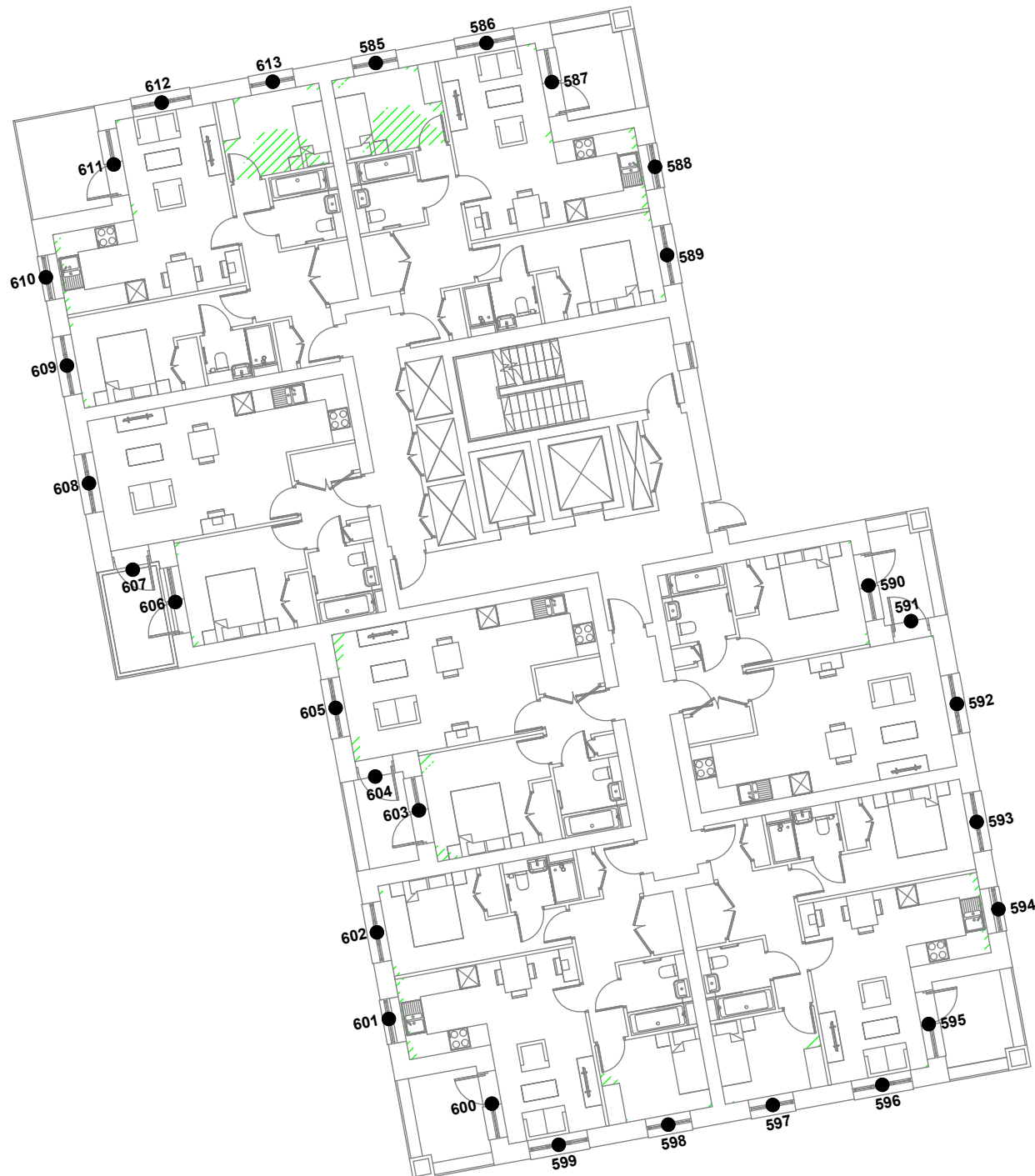
Scale: Do not scale

Drawing No: 23 of 45 Rev. .

Rev	Date	Details of revision



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Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

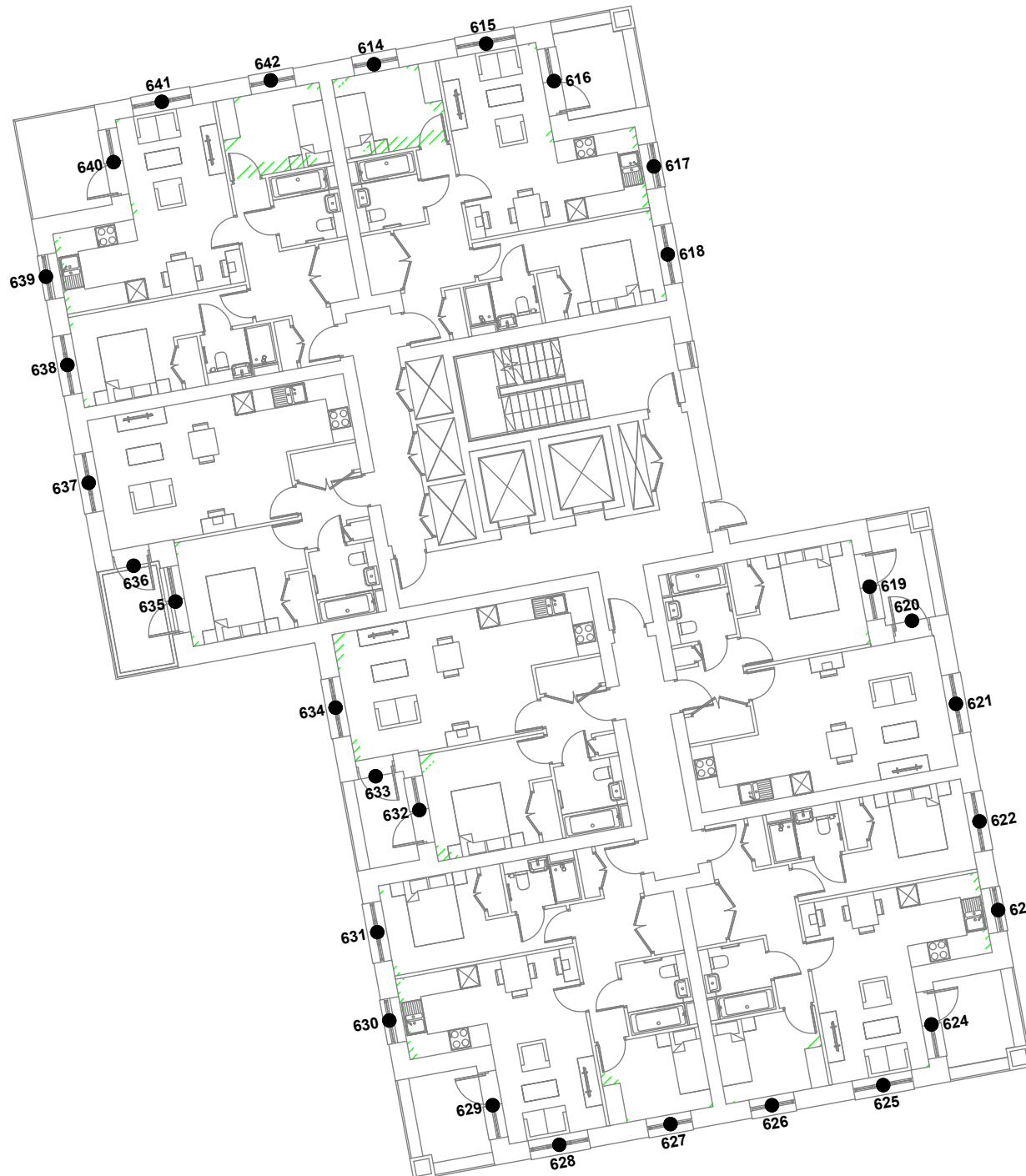
Drawing No: 24 of 45

Rev. .

Rev	Date	Details of revision



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Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

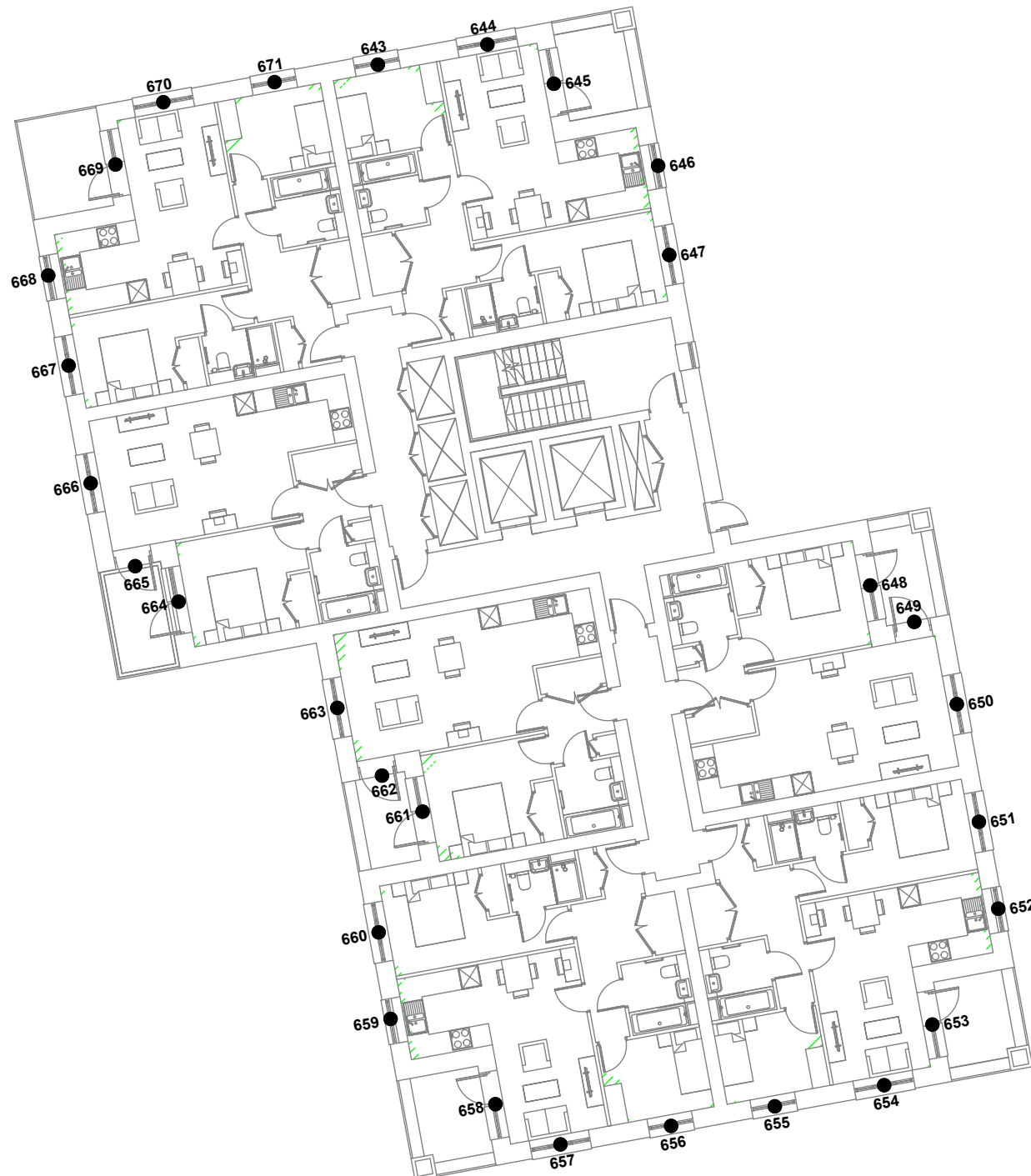
Drawing No: 25 of 45

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- Area does receive direct sky light.
- ▬ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

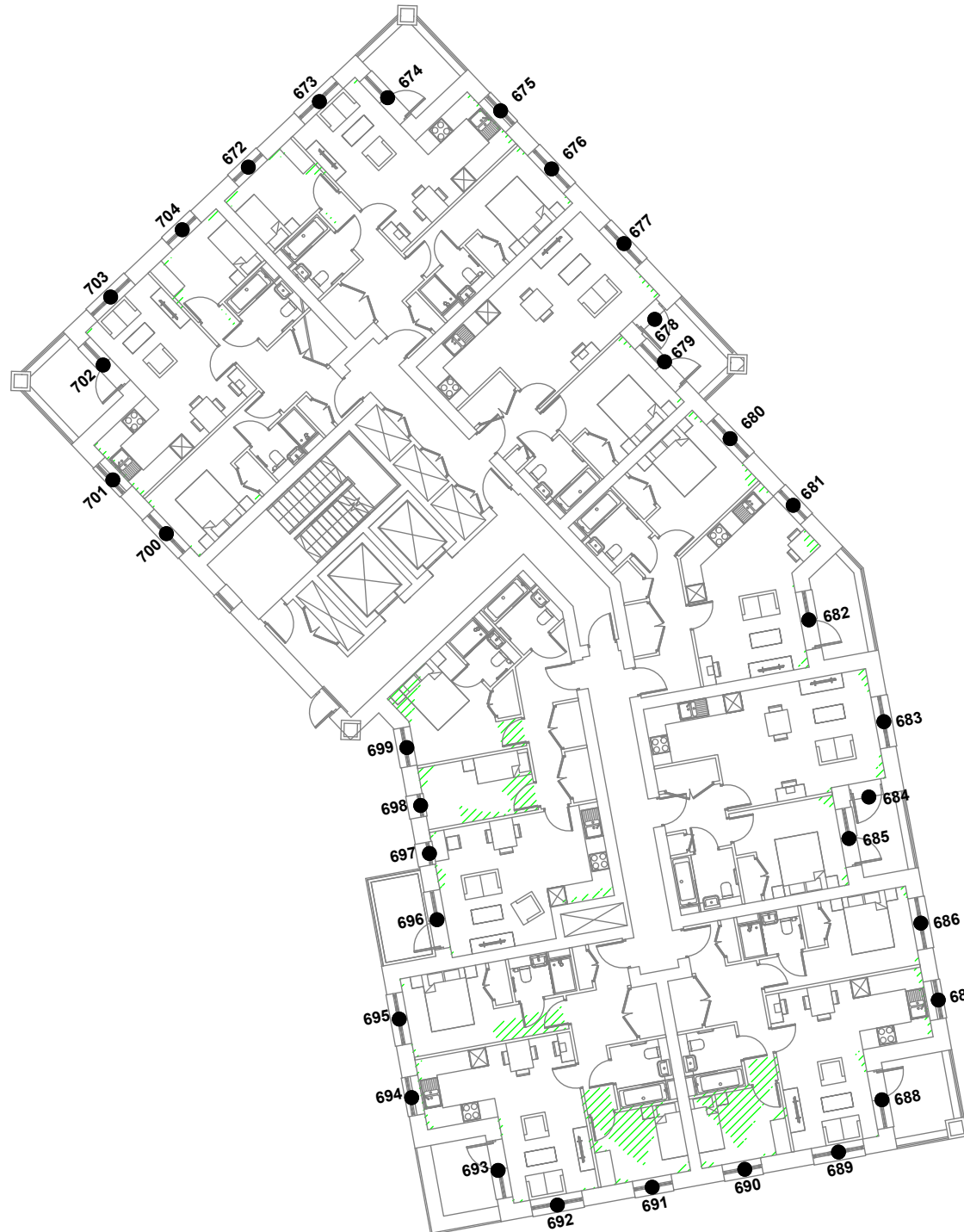
Drawing No: 26 of 45

Rev. .

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Key:

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- ▨ Area receives no direct sky light (applied to habitable rooms)
- Area does receive direct sky light.
- ▭ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

Drawing No: 27 of 45

Rev. .

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Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

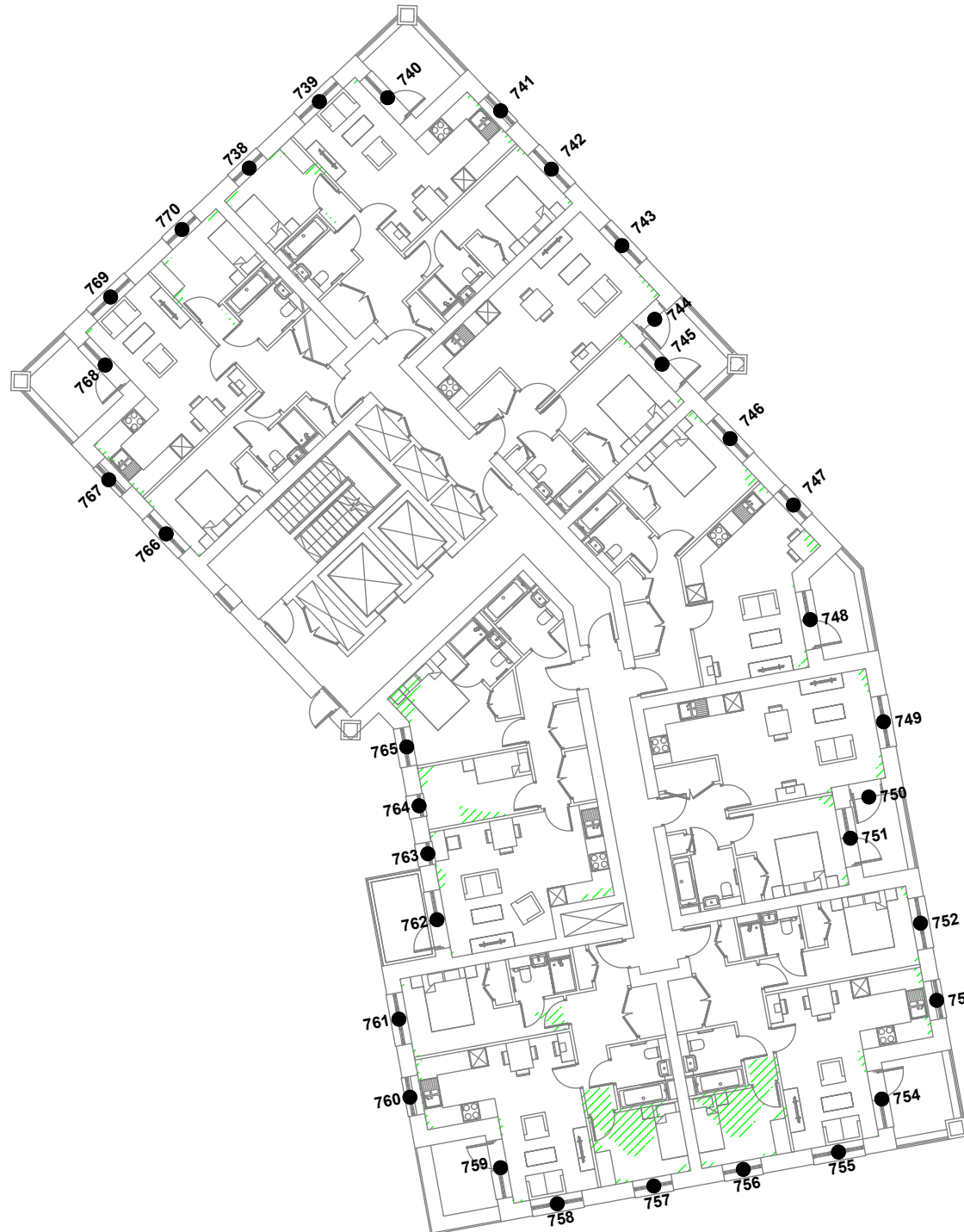
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Drawing No: 28 of 45 Rev. .

Rev	Date	Details of revision



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Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

Drawing No: 29 of 45 Rev. .

Rev	Date	Details of revision



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Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

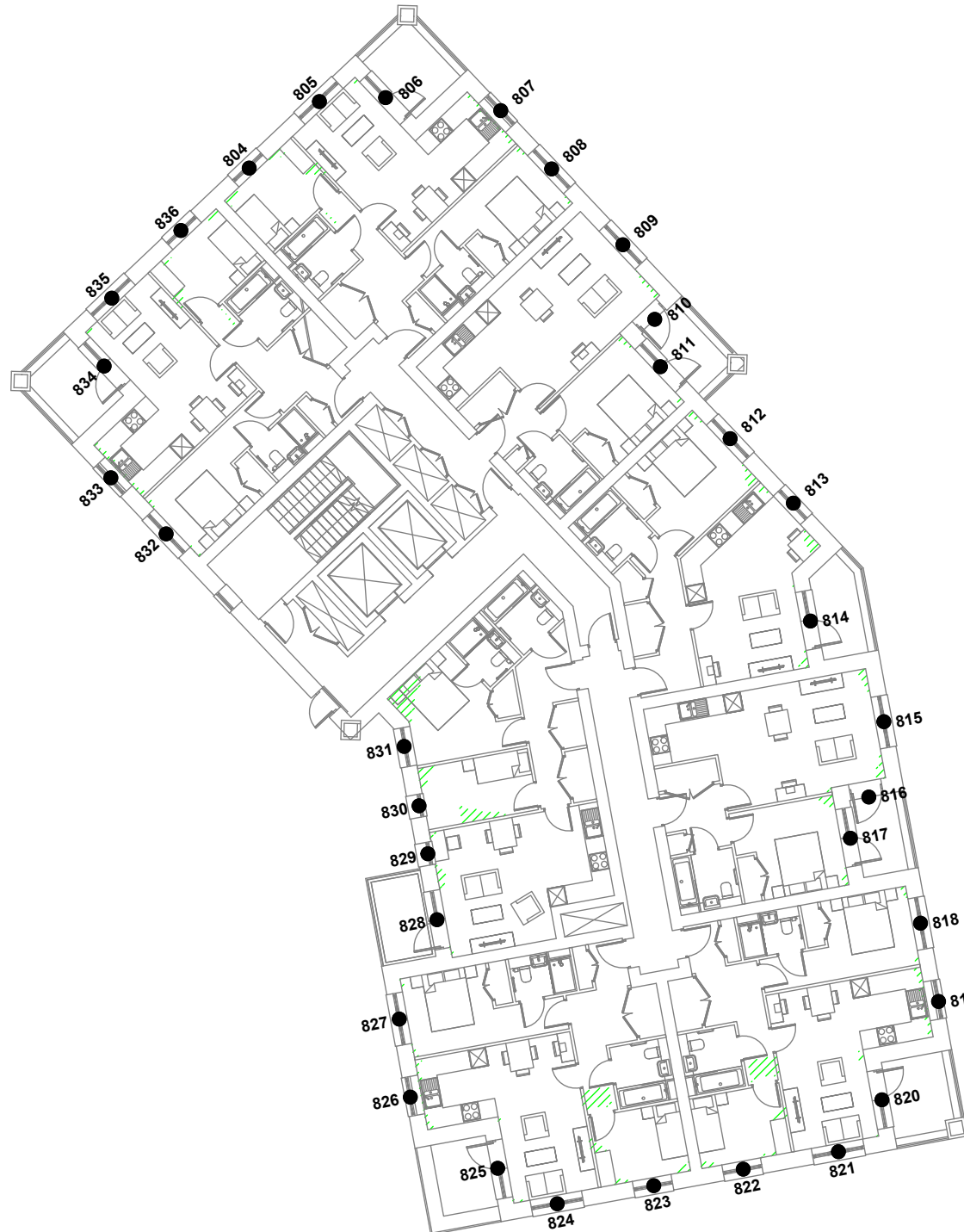
Scale: Do not scale

Drawing No: 30 of 45 Rev. .

Rev	Date	Details of revision



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Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

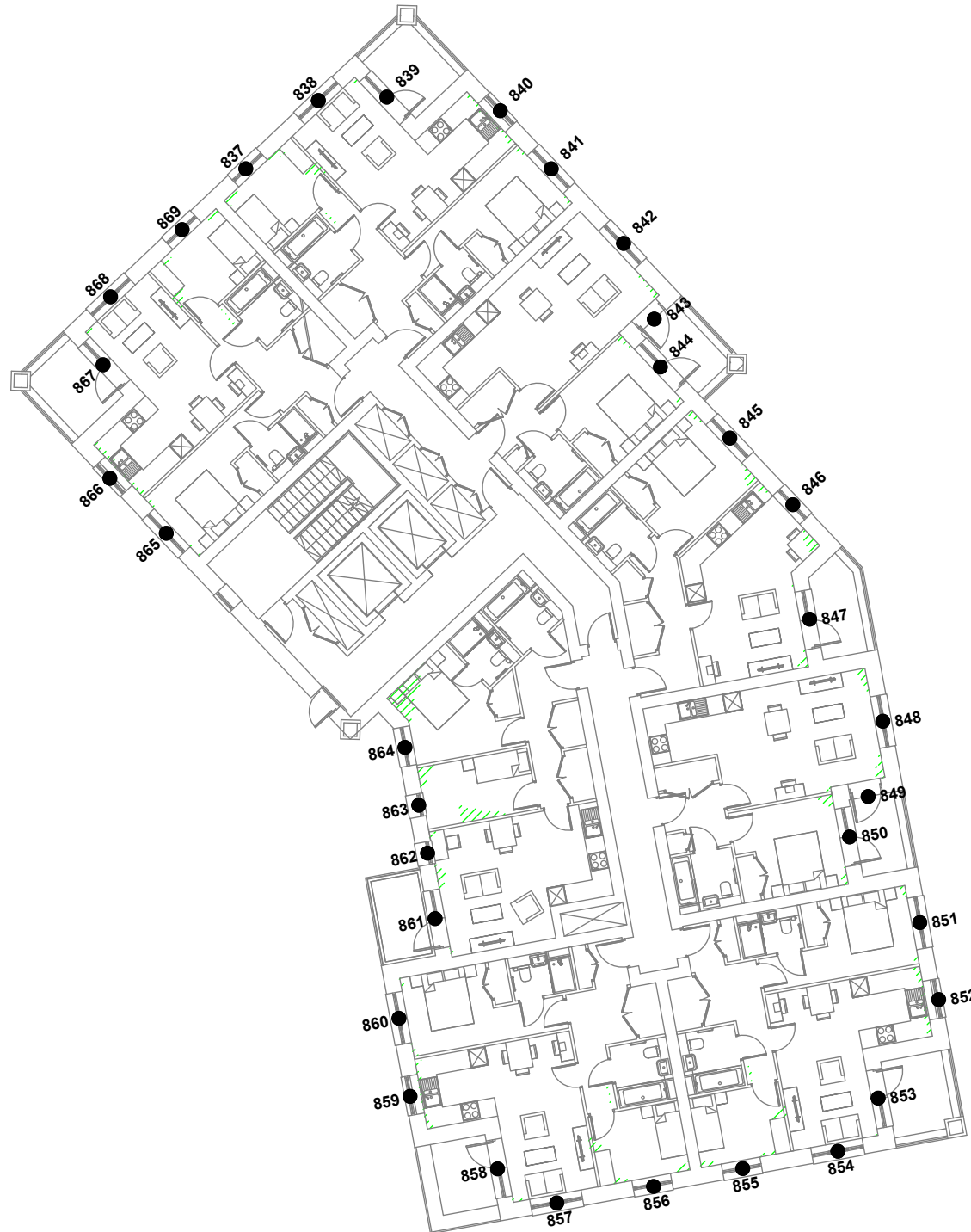
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Drawing No: 31 of 45 Rev. .

Rev	Date	Details of revision



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Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

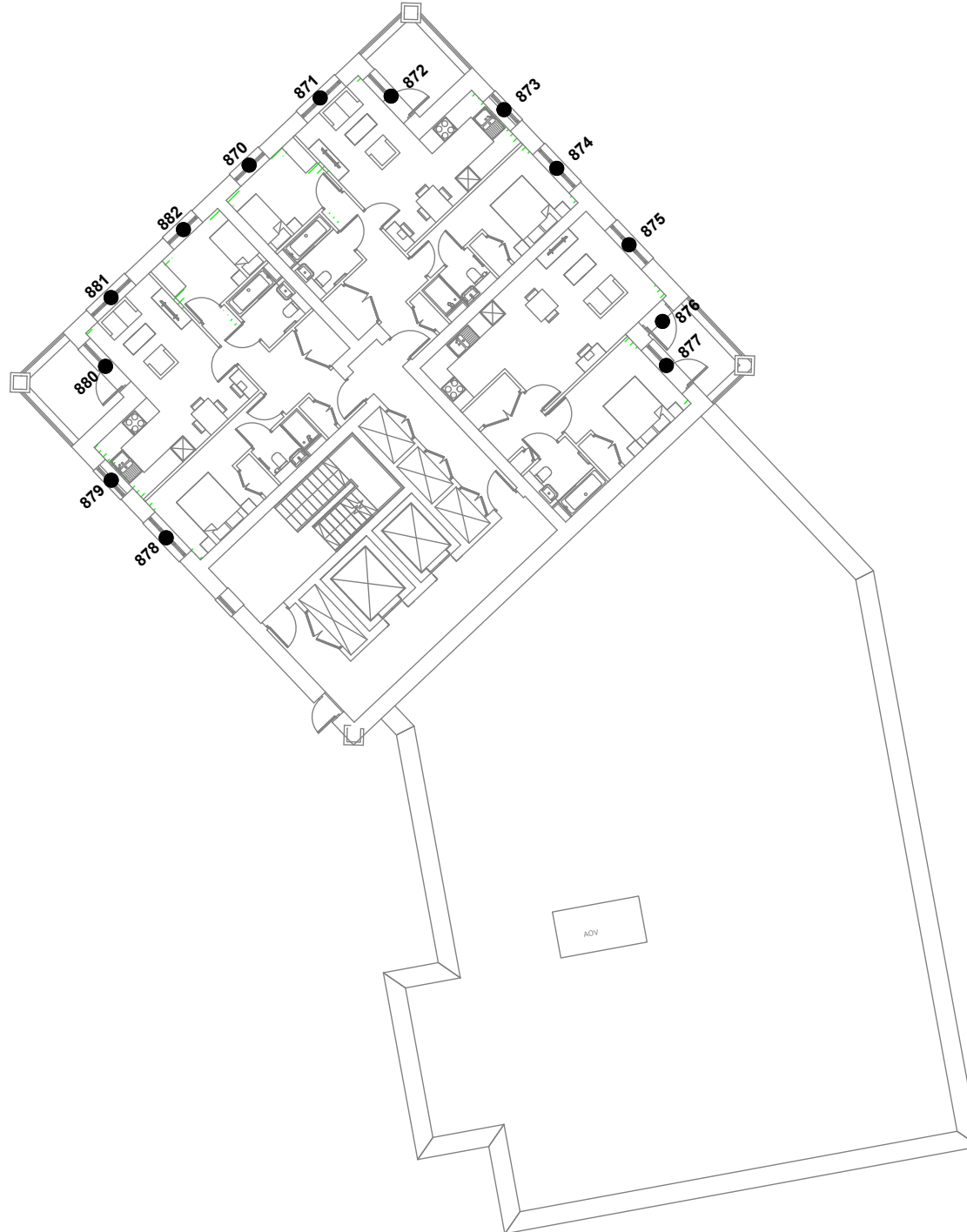
Scale: Do not scale

Drawing No: 32 of 45 Rev. .

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- ▬ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

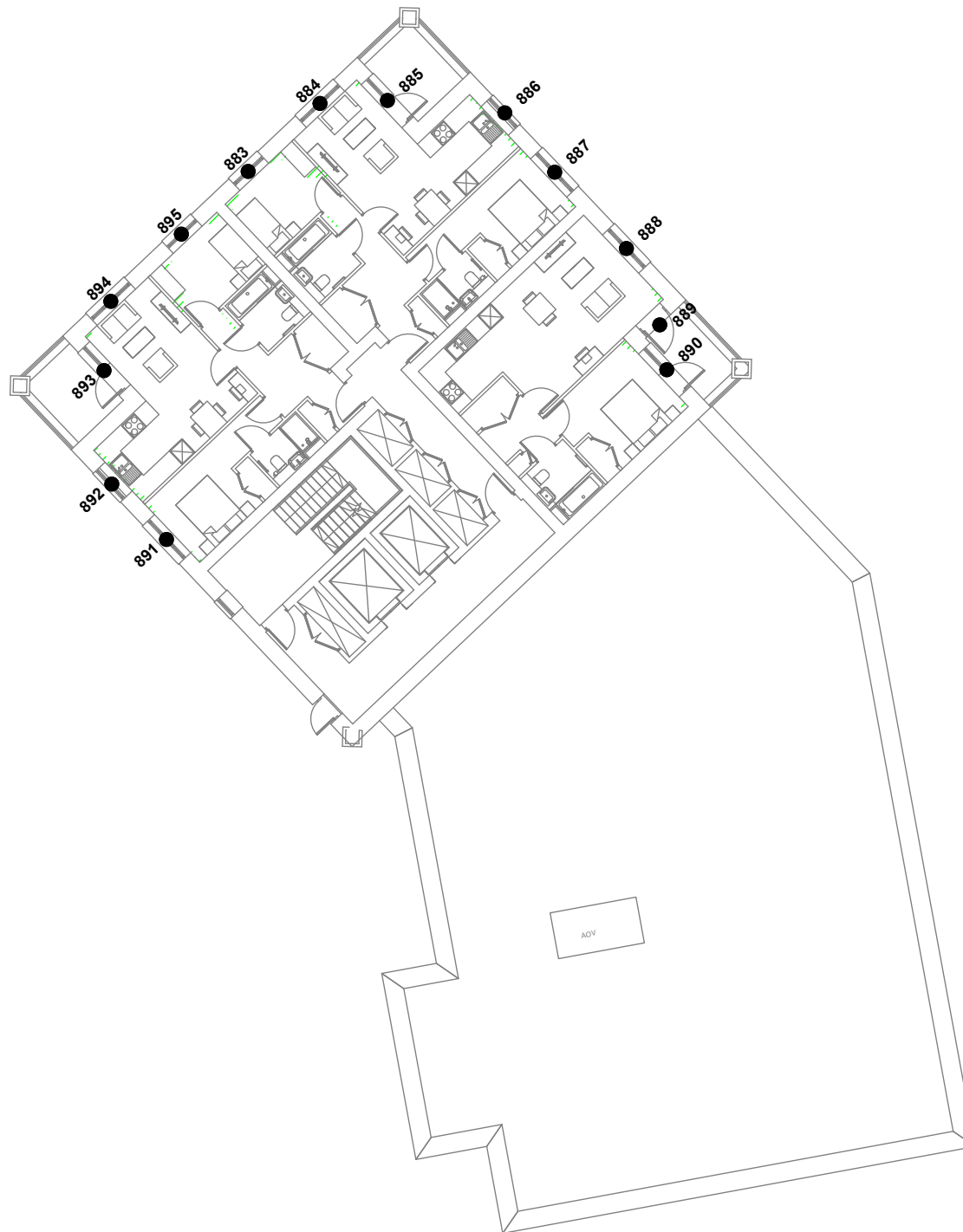
Drawing No: 33 of 45

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- ▬ Light aperture.

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

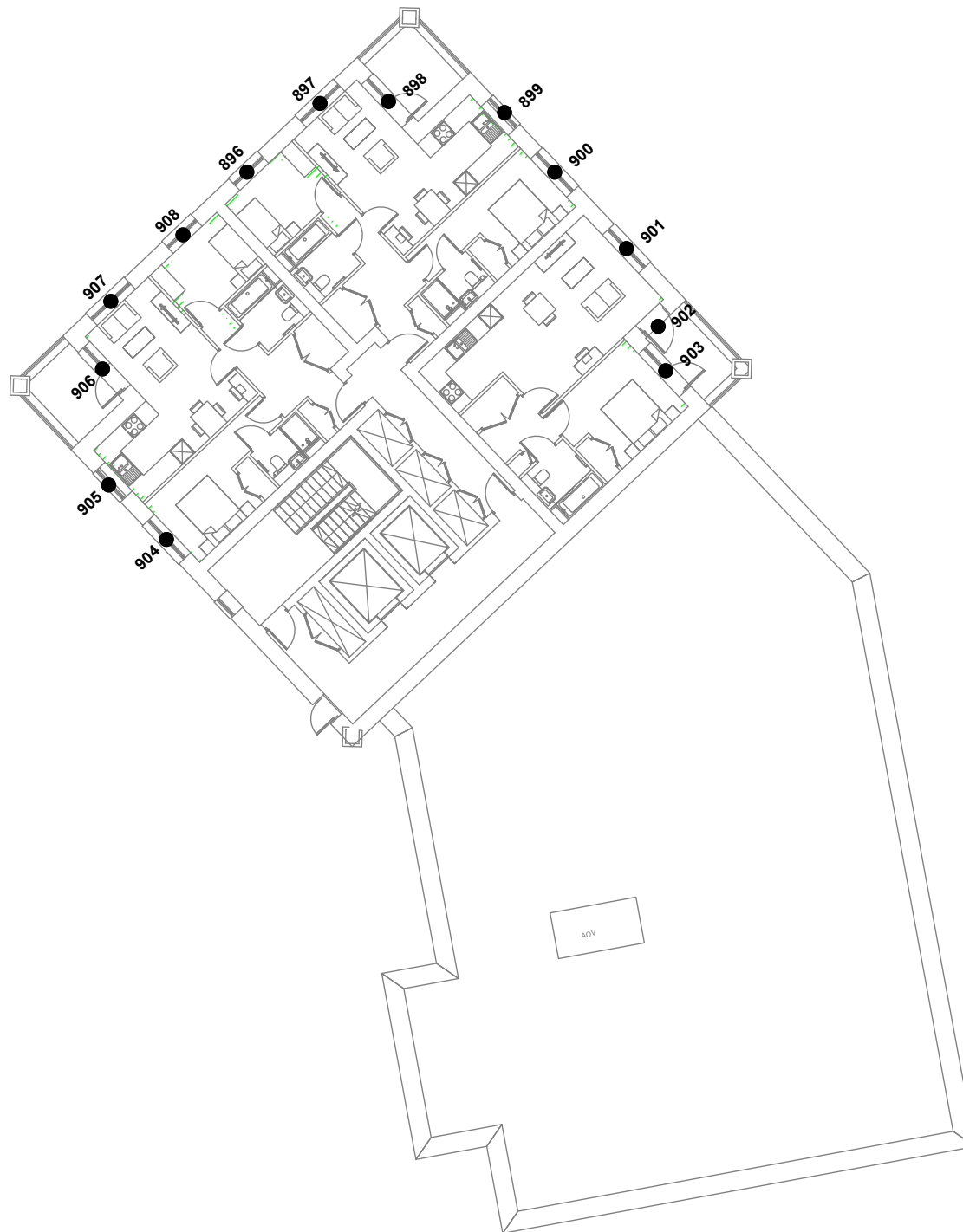
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Drawing No: 34 of 45 Rev. .

Rev	Date	Details of revision



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Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

Drawing No: 35 of 45 Rev. .

Rev	Date	Details of revision



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Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

Drawing No: 36 of 45

Rev. .

Rev	Date	Details of revision

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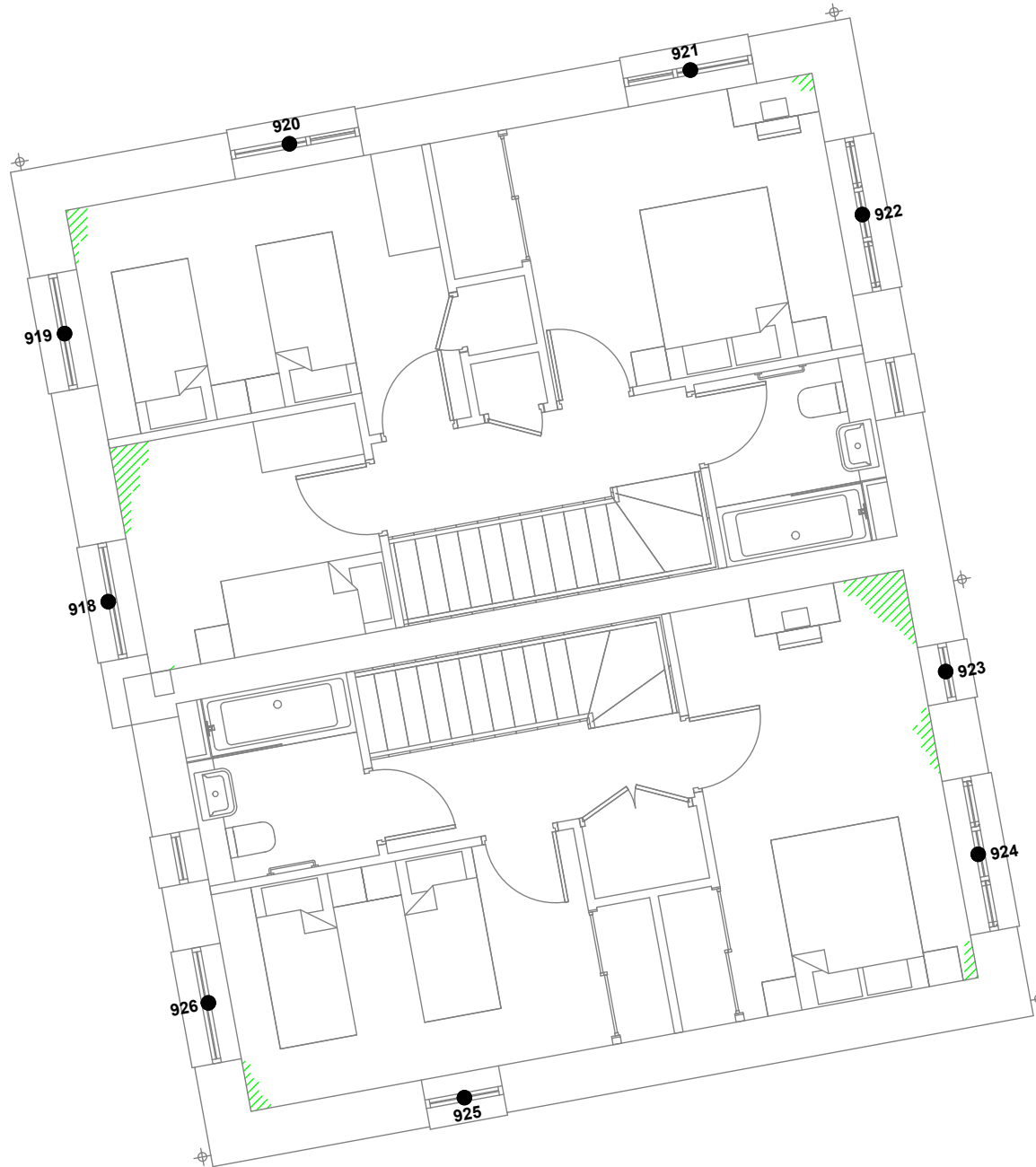


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Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

Drawing No: 37 of 45

Rev. .

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Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

Drawing No: 38 of 45 Rev. .




Rev	Date	Details of revision



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-  Light aperture.

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Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

Drawing No: 39 of 45

Rev. .

Rev	Date	Details of revision



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Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

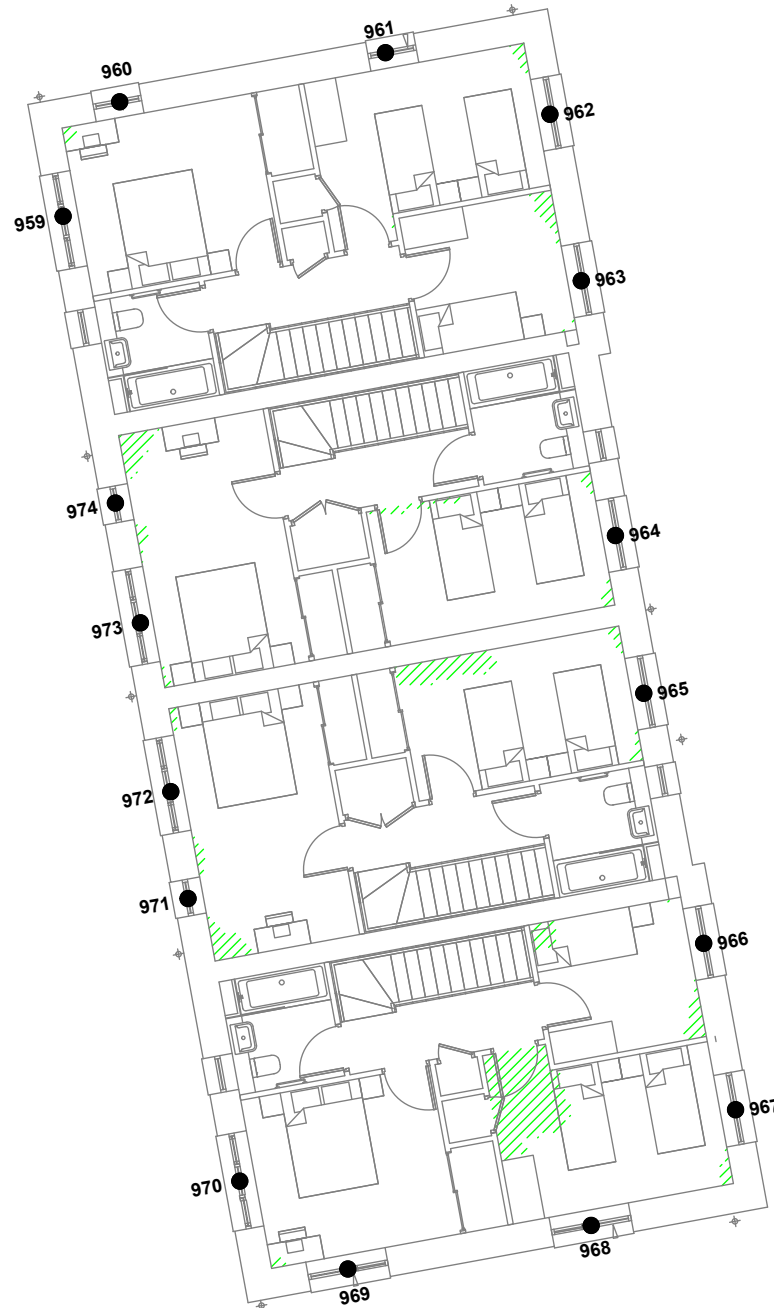
Drawing No: 40 of 45

Rev. .

Rev	Date	Details of revision



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Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

Drawing No: 41 of 45

Rev. .

Rev	Date	Details of revision



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Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

Drawing No: 42 of 45 Rev. .

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Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

Drawing No: 43 of 45 Rev. .

Rev	Date	Details of revision



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Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

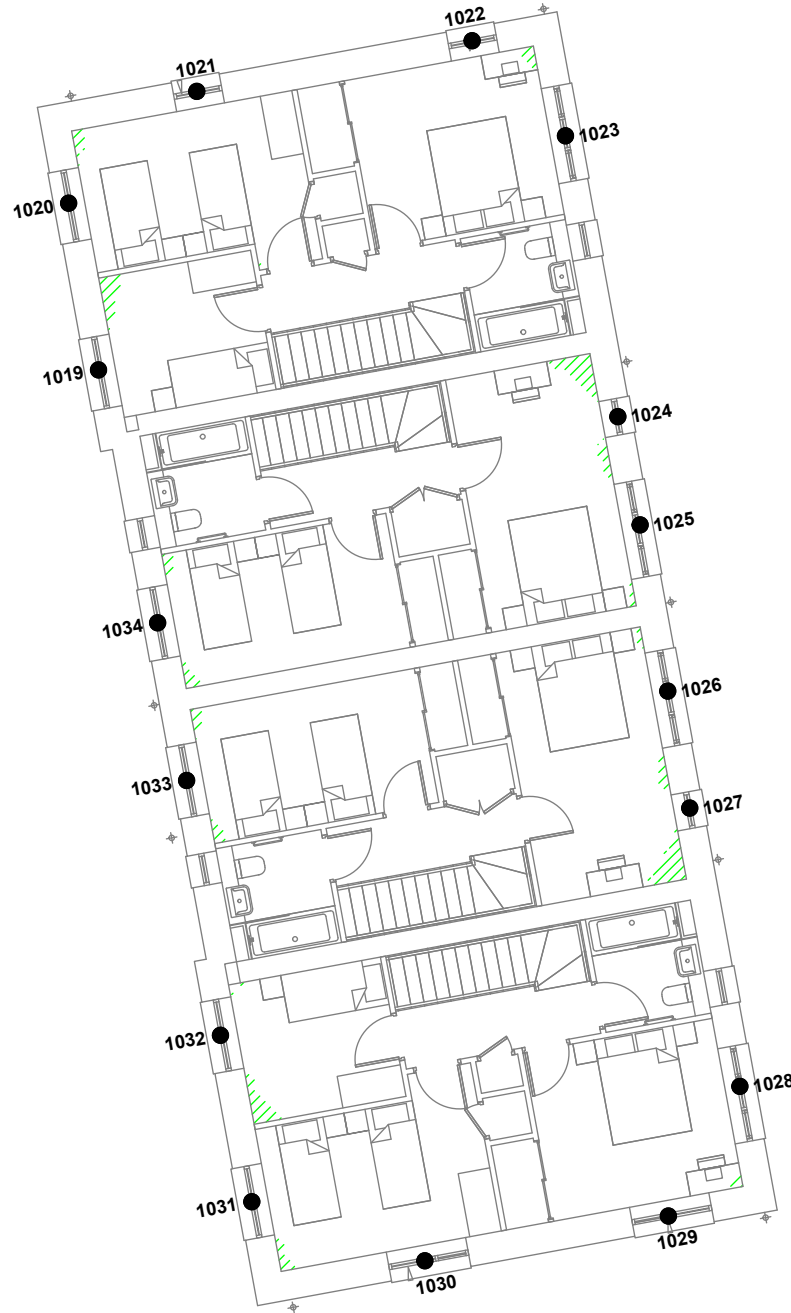
Drawing No: 44 of 45

Rev. .

Rev	Date	Details of revision



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Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Drawing Title: Window Key and No Sky Line Contours

Scale: Do not scale

Drawing No: 45 of 45

Rev. .

Rev	Date	Details of revision



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APPENDIX 2

DAYLIGHT AND SUNLIGHT CALCULATIONS

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
<u>Proposed Block A</u>													
<u>Block A - Ground Floor</u>													
Window 1 (lower)			0.68	0.26	67.42	0.71	67.0	0.1%	67.0	0.2	0.1%	0.55	0.1%
Window 1 (upper)			0.68	1.69	67.42	0.71	67.7	2.3%	67.7	0.2	2.3%	0.55	2.3%
Total ADF for room	Bedroom	1.0%						2.4%			2.4%		2.4%
Window 2 (lower)			0.68	0.26	43.7	0.71	68.6	0.2%	68.6	0.2	0.2%	0.55	0.2%
Window 2 (upper)			0.68	1.69	43.7	0.71	69.3	3.6%	69.3	0.2	3.6%	0.55	3.6%
Total ADF for room	Bedroom	1.0%						3.8%			3.8%		3.8%
Window 3 (lower)			0.68	0.47	121.96	0.67	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 4 (upper)			0.68	3.08	121.96	0.67	89.6	2.8%	89.6	0.2	2.8%	0.55	2.8%
Window 4 (lower)			0.68	1.38	121.96	0.67	39.3	0.2%	39.3	0.2	0.2%	0.55	0.2%
Window 5 (upper)			0.68	2.52	121.96	0.67	31.1	0.8%	31.1	0.2	0.8%	0.55	0.8%
Window 5			0.68	1.37	121.96	0.67	71.0	1.0%	71.0	0.2	1.0%	0.55	1.0%
Total ADF for room	Living/Dining/Kitchen	2.0%						5.0%			5.0%		5.0%
Window 6 (lower)			0.68	0.47	59.88	0.69	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%
Window 6 (upper)			0.68	3.08	59.88	0.69	89.6	6.0%	89.6	0.2	6.0%	0.55	6.0%
Total ADF for room	Bedroom	1.0%						6.4%			6.4%		6.4%
Window 7 (lower)			0.68	0.4	44.6	0.69	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%
Window 7 (upper)			0.68	2.66	44.6	0.69	89.6	7.0%	89.6	0.2	7.0%	0.55	7.0%
Total ADF for room	Bedroom	1.0%						7.4%			7.4%		7.4%
Window 8 (lower)			0.68	0.47	99.44	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 8 (upper)			0.68	3.08	99.44	0.66	89.6	3.3%	89.6	0.2	3.3%	0.55	3.3%
Window 9 (lower)			0.68	1.38	99.44	0.66	43.3	0.3%	43.3	0.2	0.3%	0.55	0.3%
Window 9 (upper)			0.68	2.52	99.44	0.66	36.0	1.1%	36.0	0.2	1.1%	0.55	1.1%
Window 10			0.68	1.37	99.44	0.66	79.0	1.3%	79.0	0.2	1.3%	0.55	1.3%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.2%			6.2%		6.2%
Window 11 (lower)			0.68	0.34	63.1	0.71	75.4	0.2%	75.4	0.2	0.2%	0.55	0.2%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 11 (upper)			0.68	2.24	63.1	0.71	76.2	3.7%	76.2	0.2	3.7%	0.55	3.7%	
Total ADF for room	Bedroom	1.0%						3.9%			3.9%		3.9%	
Window 12 (lower)			0.68	1.38	56.55	0.69	44.4	0.6%	44.4	0.2	0.6%	0.55	0.6%	
Window 12 (upper)			0.68	2.52	56.55	0.69	24.3	1.4%	24.3	0.2	1.4%	0.55	1.4%	
Total ADF for room	Bedroom	1.0%						2.0%			2.0%		2.0%	
Window 13 (lower)			0.68	0.77	113.05	0.69	38.3	0.1%	38.3	0.2	0.1%	0.55	0.1%	
Window 13 (upper)			0.68	1.41	113.05	0.69	26.7	0.4%	26.7	0.2	0.4%	0.55	0.4%	
Window 14 (lower)			0.68	0.34	113.05	0.69	75.9	0.1%	75.9	0.2	0.1%	0.55	0.1%	
Window 14 (upper)			0.68	2.24	113.05	0.69	77.3	2.0%	77.3	0.2	2.0%	0.55	2.0%	
Total ADF for room	Living/Dining/Kitchen	2.0%						2.6%			2.6%		2.6%	
Window 15 (lower)			0.68	0.34	63.1	0.71	76.1	0.2%	76.1	0.2	0.2%	0.55	0.2%	
Window 15 (upper)			0.68	2.24	63.1	0.71	77.4	3.8%	77.4	0.2	3.8%	0.55	3.8%	
Total ADF for room	Bedroom	1.0%						4.0%			4.0%		4.0%	
Window 16			0.68	1.37	97.83	0.67	78.0	1.3%	78.0	0.2	1.3%	0.55	1.3%	
Window 17 (lower)			0.68	1.38	97.83	0.67	40.7	0.3%	40.7	0.2	0.3%	0.55	0.3%	
Window 17 (upper)			0.68	2.52	97.83	0.67	20.7	0.7%	20.7	0.2	0.7%	0.55	0.7%	
Window 18 (lower)			0.68	0.34	97.83	0.67	80.7	0.1%	80.7	0.2	0.1%	0.55	0.1%	
Window 18 (upper)			0.68	2.24	97.83	0.67	81.4	2.3%	81.4	0.2	2.3%	0.55	2.3%	
Total ADF for room	Living/Dining/Kitchen	2.0%						4.7%			4.7%		4.7%	
Window 19 (lower)			0.68	0.26	44.6	0.71	80.4	0.3%	80.4	0.2	0.3%	0.55	0.3%	
Window 19 (upper)			0.68	1.69	44.6	0.71	81.0	4.2%	81.0	0.2	4.2%	0.55	4.2%	
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%	
<u>Block A - First Floor</u>														
Window 20 (lower)			0.68	1.38	56.55	0.69	38.4	0.5%	38.4	0.2	0.5%	0.55	0.5%	
Window 20 (upper)			0.68	2.52	56.55	0.69	24.8	1.4%	24.8	0.2	1.4%	0.55	1.4%	
Total ADF for room	Bedroom	1.0%						1.9%			1.9%		1.9%	
Window 21 (lower)			0.68	0.77	113.05	0.69	32.7	0.1%	32.7	0.2	0.1%	0.55	0.1%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 21 (upper)			0.68	1.41	113.05	0.69	22.6	0.4%	22.6	0.2	0.4%	0.55	0.4%
Window 22 (lower)			0.68	0.34	113.05	0.69	70.2	0.1%	70.2	0.2	0.1%	0.55	0.1%
Window 22 (upper)			0.68	2.24	113.05	0.69	71.0	1.8%	71.0	0.2	1.8%	0.55	1.8%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.4%			2.4%		2.4%
Window 23 (lower)			0.68	0.34	62.37	0.71	71.7	0.2%	71.7	0.2	0.2%	0.55	0.2%
Window 23 (upper)			0.68	2.24	62.37	0.71	72.5	3.6%	72.5	0.2	3.6%	0.55	3.6%
Total ADF for room	Bedroom	1.0%						3.8%			3.8%		3.8%
Window 24			0.68	1.37	97.84	0.66	73.8	1.2%	73.8	0.2	1.2%	0.55	1.2%
Window 25 (lower)			0.68	1.38	97.84	0.66	40.0	0.3%	40.0	0.2	0.3%	0.55	0.3%
Window 25 (upper)			0.68	2.52	97.84	0.66	30.4	0.9%	30.4	0.2	0.9%	0.55	0.9%
Window 26 (lower)			0.68	0.47	97.84	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 26 (upper)			0.68	3.08	97.84	0.66	89.6	3.4%	89.6	0.2	3.4%	0.55	3.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.0%			6.0%		6.0%
Window 27 (lower)			0.68	0.4	50.12	0.7	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%
Window 27 (upper)			0.68	2.66	50.12	0.7	89.6	6.3%	89.6	0.2	6.3%	0.55	6.3%
Total ADF for room	Bedroom	1.0%						6.7%			6.7%		6.7%
Window 28 (lower)			0.68	0.4	50.12	0.7	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%
Window 28 (upper)			0.68	2.66	50.12	0.7	89.6	6.3%	89.6	0.2	6.3%	0.55	6.3%
Total ADF for room	Bedroom	1.0%						6.7%			6.7%		6.7%
Window 29 (lower)			0.68	0.47	97.83	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 29 (upper)			0.68	3.08	97.83	0.66	89.6	3.4%	89.6	0.2	3.4%	0.55	3.4%
Window 30 (lower)			0.68	1.38	97.83	0.66	43.4	0.3%	43.4	0.2	0.3%	0.55	0.3%
Window 30 (upper)			0.68	2.52	97.83	0.66	35.6	1.1%	35.6	0.2	1.1%	0.55	1.1%
Window 31			0.68	1.37	97.83	0.66	82.7	1.4%	82.7	0.2	1.4%	0.55	1.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.4%			6.4%		6.4%
Window 32 (lower)			0.68	0.34	63.1	0.71	79.3	0.2%	79.3	0.2	0.2%	0.55	0.2%
Window 32 (upper)			0.68	2.24	63.1	0.71	80.0	3.9%	80.0	0.2	3.9%	0.55	3.9%
Total ADF for room	Bedroom	1.0%						4.1%			4.1%		4.1%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 33 (lower)			0.68	1.38	56.55	0.69	47.8	0.6%	47.8	0.2	0.6%	0.55	0.6%
Window 33 (upper)			0.68	2.52	56.55	0.69	29.3	1.7%	29.3	0.2	1.7%	0.55	1.7%
Total ADF for room	Bedroom	1.0%						2.3%			2.3%		2.3%
Window 34 (lower)			0.68	0.77	113.05	0.69	40.5	0.1%	40.5	0.2	0.1%	0.55	0.1%
Window 34 (upper)			0.68	1.41	113.05	0.69	27.0	0.4%	27.0	0.2	0.4%	0.55	0.4%
Window 35 (lower)			0.68	0.34	113.05	0.69	81.6	0.1%	81.6	0.2	0.1%	0.55	0.1%
Window 35 (upper)			0.68	2.24	113.05	0.69	83.1	2.1%	83.1	0.2	2.1%	0.55	2.1%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.7%			2.7%		2.7%
Window 36 (lower)			0.68	0.34	63.1	0.71	81.8	0.2%	81.8	0.2	0.2%	0.55	0.2%
Window 36 (upper)			0.68	2.24	63.1	0.71	83.1	4.1%	83.1	0.2	4.1%	0.55	4.1%
Total ADF for room	Bedroom	1.0%						4.3%			4.3%		4.3%
Window 37			0.68	1.37	97.83	0.67	83.6	1.4%	83.6	0.2	1.4%	0.55	1.4%
Window 38 (lower)			0.68	1.38	97.83	0.67	43.4	0.3%	43.4	0.2	0.3%	0.55	0.3%
Window 38 (upper)			0.68	2.52	97.83	0.67	25.5	0.8%	25.5	0.2	0.8%	0.55	0.8%
Window 39 (lower)			0.68	0.34	97.83	0.67	83.4	0.1%	83.4	0.2	0.1%	0.55	0.1%
Window 39 (upper)			0.68	2.24	97.83	0.67	83.9	2.4%	83.9	0.2	2.4%	0.55	2.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						5.0%			5.0%		5.0%
Window 40 (lower)			0.68	0.26	50.11	0.71	83.0	0.2%	83.0	0.2	0.2%	0.55	0.2%
Window 40 (upper)			0.68	1.69	50.11	0.71	83.5	3.9%	83.5	0.2	3.9%	0.55	3.9%
Total ADF for room	Bedroom	1.0%						4.1%			4.1%		4.1%
Window 41 (lower)			0.68	0.26	50.11	0.71	82.6	0.2%	82.6	0.2	0.2%	0.55	0.2%
Window 41 (upper)			0.68	1.69	50.11	0.71	83.0	3.9%	83.0	0.2	3.9%	0.55	3.9%
Total ADF for room	Bedroom	1.0%						4.1%			4.1%		4.1%
Window 42 (lower)			0.68	0.34	97.83	0.67	82.1	0.1%	82.1	0.2	0.1%	0.55	0.1%
Window 42 (upper)			0.68	2.24	97.83	0.67	82.4	2.3%	82.4	0.2	2.3%	0.55	2.3%
Window 43 (lower)			0.68	1.38	97.83	0.67	38.0	0.3%	38.0	0.2	0.3%	0.55	0.3%
Window 43 (upper)			0.68	2.52	97.83	0.67	23.3	0.7%	23.3	0.2	0.7%	0.55	0.7%
Window 44			0.68	1.37	97.83	0.67	68.4	1.2%	68.4	0.2	1.2%	0.55	1.2%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Total ADF for room	Living/Dining/Kitchen	2.0%									4.6%		4.6%	
Window 45 (lower)			0.68	0.36	63.1	0.71	65.3	0.2%	65.3	0.2	0.2%	0.55	0.2%	
Window 45 (upper)			0.68	2.24	63.1	0.71	66.2	3.2%	66.2	0.2	3.2%	0.55	3.2%	
Total ADF for room	Bedroom	1.0%									3.4%		3.4%	
Window 46 (lower)			0.68	1.38	57.4	0.69	37.2	0.5%	37.2	0.2	0.5%	0.55	0.5%	
Window 46 (upper)			0.68	2.52	57.4	0.69	24.6	1.4%	24.6	0.2	1.4%	0.55	1.4%	
Total ADF for room	Bedroom	1.0%									1.9%		1.9%	
Window 47 (lower)			0.68	0.77	112.21	0.69	25.9	0.1%	25.9	0.2	0.1%	0.55	0.1%	
Window 47 (upper)			0.68	1.41	112.21	0.69	20.0	0.3%	20.0	0.2	0.3%	0.55	0.3%	
Window 48 (lower)			0.68	0.36	112.21	0.69	49.8	0.1%	49.8	0.2	0.1%	0.55	0.1%	
Window 48 (upper)			0.68	2.24	112.21	0.69	50.6	1.3%	50.6	0.2	1.3%	0.55	1.3%	
Total ADF for room	Living/Dining/Kitchen	2.0%									1.8%		1.8%	
<u>Block A - Second Floor</u>														
Window 49 (lower)			0.68	1.38	56.55	0.69	41.0	0.5%	41.0	0.2	0.5%	0.55	0.5%	
Window 49 (upper)			0.68	2.52	56.55	0.69	28.3	1.6%	28.3	0.2	1.6%	0.55	1.6%	
Total ADF for room	Bedroom	1.0%									2.1%		2.1%	
Window 50 (lower)			0.68	0.77	113.05	0.69	33.8	0.1%	33.8	0.2	0.1%	0.55	0.1%	
Window 50 (upper)			0.68	1.41	113.05	0.69	24.4	0.4%	24.4	0.2	0.4%	0.55	0.4%	
Window 51 (lower)			0.68	0.34	113.05	0.69	73.5	0.1%	73.5	0.2	0.1%	0.55	0.1%	
Window 51 (upper)			0.68	2.24	113.05	0.69	74.3	1.9%	74.3	0.2	1.9%	0.55	1.9%	
Total ADF for room	Living/Dining/Kitchen	2.0%									2.5%		2.5%	
Window 52 (lower)			0.68	0.34	62.37	0.71	74.8	0.2%	74.8	0.2	0.2%	0.55	0.2%	
Window 52 (upper)			0.68	2.24	62.37	0.71	75.5	3.7%	75.5	0.2	3.7%	0.55	3.7%	
Total ADF for room	Bedroom	1.0%									3.9%		3.9%	
Window 53			0.68	1.37	97.84	0.66	76.8	1.3%	76.8	0.2	1.3%	0.55	1.3%	
Window 54 (lower)			0.68	1.38	97.84	0.66	41.3	0.3%	41.3	0.2	0.3%	0.55	0.3%	
Window 54 (upper)			0.68	2.52	97.84	0.66	32.0	1.0%	32.0	0.2	1.0%	0.55	1.0%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 55 (lower)			0.68	0.47	97.84	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 55 (upper)			0.68	3.08	97.84	0.66	89.6	3.4%	89.6	0.2	3.4%	0.55	3.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.2%			6.2%		6.2%
Window 56 (lower)			0.68	0.4	50.12	0.7	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%
Window 56 (upper)			0.68	2.66	50.12	0.7	89.6	6.3%	89.6	0.2	6.3%	0.55	6.3%
Total ADF for room	Bedroom	1.0%						6.7%			6.7%		6.7%
Window 57 (lower)			0.68	0.4	50.12	0.7	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%
Window 57 (upper)			0.68	2.66	50.12	0.7	89.6	6.3%	89.6	0.2	6.3%	0.55	6.3%
Total ADF for room	Bedroom	1.0%						6.7%			6.7%		6.7%
Window 58 (lower)			0.68	0.47	97.83	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 58 (upper)			0.68	3.08	97.83	0.66	89.6	3.4%	89.6	0.2	3.4%	0.55	3.4%
Window 59 (lower)			0.68	1.38	97.83	0.66	44.1	0.3%	44.1	0.2	0.3%	0.55	0.3%
Window 59 (upper)			0.68	2.52	97.83	0.66	36.7	1.1%	36.7	0.2	1.1%	0.55	1.1%
Window 60			0.68	1.37	97.83	0.66	86.2	1.5%	86.2	0.2	1.5%	0.55	1.5%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.5%			6.5%		6.5%
Window 61 (lower)			0.68	0.34	63.1	0.71	83.0	0.2%	83.0	0.2	0.2%	0.55	0.2%
Window 61 (upper)			0.68	2.24	63.1	0.71	83.9	4.1%	83.9	0.2	4.1%	0.55	4.1%
Total ADF for room	Bedroom	1.0%						4.3%			4.3%		4.3%
Window 62 (lower)			0.68	1.38	56.55	0.69	50.2	0.6%	50.2	0.2	0.6%	0.55	0.6%
Window 62 (upper)			0.68	2.52	56.55	0.69	32.8	1.9%	32.8	0.2	1.9%	0.55	1.9%
Total ADF for room	Bedroom	1.0%						2.5%			2.5%		2.5%
Window 63 (lower)			0.68	0.77	113.05	0.69	41.1	0.1%	41.1	0.2	0.1%	0.55	0.1%
Window 63 (upper)			0.68	1.41	113.05	0.69	27.8	0.4%	27.8	0.2	0.4%	0.55	0.4%
Window 64 (lower)			0.68	0.34	113.05	0.69	87.0	0.1%	87.0	0.2	0.1%	0.55	0.1%
Window 64 (upper)			0.68	2.24	113.05	0.69	88.1	2.3%	88.1	0.2	2.3%	0.55	2.3%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.9%			2.9%		2.9%
Window 65 (lower)			0.68	0.34	63.1	0.71	87.1	0.3%	87.1	0.2	0.3%	0.55	0.3%
Window 65 (upper)			0.68	2.24	63.1	0.71	88.1	4.3%	88.1	0.2	4.3%	0.55	4.3%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Total ADF for room	Bedroom	1.0%									4.6%		4.6%
Window 66			0.68	1.37	99.43	0.67	88.5	1.5%	88.5	0.2	1.5%	0.55	1.5%
Window 67 (lower)			0.68	1.38	99.43	0.67	45.6	0.3%	45.6	0.2	0.3%	0.55	0.3%
Window 67 (upper)			0.68	2.52	99.43	0.67	28.9	0.9%	28.9	0.2	0.9%	0.55	0.9%
Window 68 (lower)			0.68	0.34	99.43	0.67	85.9	0.1%	85.9	0.2	0.1%	0.55	0.1%
Window 68 (upper)			0.68	2.24	99.43	0.67	86.1	2.4%	86.1	0.2	2.4%	0.55	2.4%
Total ADF for room	Living/Dining/Kitchen	2.0%									5.2%		5.2%
Window 69 (lower)			0.68	0.26	42.05	0.71	85.4	0.3%	85.4	0.2	0.3%	0.55	0.3%
Window 69 (upper)			0.68	1.69	42.05	0.71	85.6	4.7%	85.6	0.2	4.7%	0.55	4.7%
Total ADF for room	Bedroom	1.0%									5.0%		5.0%
Window 70 (lower)			0.68	0.26	42.05	0.71	84.9	0.3%	84.9	0.2	0.3%	0.55	0.3%
Window 70 (upper)			0.68	1.69	42.05	0.71	85.2	4.7%	85.2	0.2	4.7%	0.55	4.7%
Total ADF for room	Bedroom	1.0%									5.0%		5.0%
Window 71 (lower)			0.68	0.34	99.43	0.67	84.4	0.1%	84.4	0.2	0.1%	0.55	0.1%
Window 71 (upper)			0.68	2.24	99.43	0.67	84.6	2.3%	84.6	0.2	2.3%	0.55	2.3%
Window 72 (lower)			0.68	1.38	99.43	0.67	40.4	0.3%	40.4	0.2	0.3%	0.55	0.3%
Window 72 (upper)			0.68	2.52	99.43	0.67	26.1	0.8%	26.1	0.2	0.8%	0.55	0.8%
Window 73			0.68	1.37	99.43	0.67	72.1	1.2%	72.1	0.2	1.2%	0.55	1.2%
Total ADF for room	Living/Dining/Kitchen	2.0%									4.7%		4.7%
Window 74 (lower)			0.68	0.36	63.1	0.71	69.1	0.2%	69.1	0.2	0.2%	0.55	0.2%
Window 74 (upper)			0.68	2.24	63.1	0.71	70.1	3.4%	70.1	0.2	3.4%	0.55	3.4%
Total ADF for room	Bedroom	1.0%									3.6%		3.6%
Window 75 (lower)			0.68	1.38	57.12	0.69	39.3	0.5%	39.3	0.2	0.5%	0.55	0.5%
Window 75 (upper)			0.68	2.52	57.12	0.69	27.5	1.6%	27.5	0.2	1.6%	0.55	1.6%
Total ADF for room	Bedroom	1.0%									2.1%		2.1%
Window 76 (lower)			0.68	0.77	112.21	0.69	26.7	0.1%	26.7	0.2	0.1%	0.55	0.1%
Window 76 (upper)			0.68	1.41	112.21	0.69	21.5	0.3%	21.5	0.2	0.3%	0.55	0.3%
Window 77 (lower)			0.68	0.36	112.21	0.69	52.9	0.1%	52.9	0.2	0.1%	0.55	0.1%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 77 (upper)			0.68	2.24	112.21	0.69	53.8	1.4%	53.8	0.2	1.4%	0.55	1.4%	
Total ADF for room	Living/Dining/Kitchen	2.0%						1.9%			1.9%		1.9%	
<u>Block A - Third Floor</u>														
Window 78 (lower)			0.68	1.38	56.55	0.69	43.5	0.5%	43.5	0.2	0.5%	0.55	0.5%	
Window 78 (upper)			0.68	2.52	56.55	0.69	31.5	1.8%	31.5	0.2	1.8%	0.55	1.8%	
Total ADF for room	Bedroom	1.0%						2.3%			2.3%		2.3%	
Window 79 (lower)			0.68	0.77	113.05	0.69	34.8	0.1%	34.8	0.2	0.1%	0.55	0.1%	
Window 79 (upper)			0.68	1.41	113.05	0.69	26.0	0.4%	26.0	0.2	0.4%	0.55	0.4%	
Window 80 (lower)			0.68	0.34	113.05	0.69	76.9	0.1%	76.9	0.2	0.1%	0.55	0.1%	
Window 80 (upper)			0.68	2.24	113.05	0.69	77.9	2.0%	77.9	0.2	2.0%	0.55	2.0%	
Total ADF for room	Living/Dining/Kitchen	2.0%						2.6%			2.6%		2.6%	
Window 81 (lower)			0.68	0.34	62.37	0.71	78.0	0.2%	78.0	0.2	0.2%	0.55	0.2%	
Window 81 (upper)			0.68	2.24	62.37	0.71	78.9	3.9%	78.9	0.2	3.9%	0.55	3.9%	
Total ADF for room	Bedroom	1.0%						4.1%			4.1%		4.1%	
Window 82			0.68	1.37	97.84	0.66	79.9	1.3%	79.9	0.2	1.3%	0.55	1.3%	
Window 83 (lower)			0.68	1.38	97.84	0.66	42.5	0.3%	42.5	0.2	0.3%	0.55	0.3%	
Window 83 (upper)			0.68	2.52	97.84	0.66	33.5	1.0%	33.5	0.2	1.0%	0.55	1.0%	
Window 84 (lower)			0.68	0.47	97.84	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%	
Window 84 (upper)			0.68	3.08	97.84	0.66	89.6	3.4%	89.6	0.2	3.4%	0.55	3.4%	
Total ADF for room	Living/Dining/Kitchen	2.0%						6.2%			6.2%		6.2%	
Window 85 (lower)			0.68	0.4	50.12	0.7	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%	
Window 85 (upper)			0.68	2.66	50.12	0.7	89.6	6.3%	89.6	0.2	6.3%	0.55	6.3%	
Total ADF for room	Bedroom	1.0%						6.7%			6.7%		6.7%	
Window 86 (lower)			0.68	0.4	50.12	0.7	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%	
Window 86 (upper)			0.68	2.66	50.12	0.7	89.6	6.3%	89.6	0.2	6.3%	0.55	6.3%	
Total ADF for room	Bedroom	1.0%						6.7%			6.7%		6.7%	
Window 87 (lower)			0.68	0.47	97.83	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 87 (upper)			0.68	3.08	97.83	0.66	89.6	3.4%	89.6	0.2	3.4%	0.55	3.4%
Window 88 (lower)			0.68	1.38	97.83	0.66	44.1	0.3%	44.1	0.2	0.3%	0.55	0.3%
Window 88 (upper)			0.68	2.52	97.83	0.66	37.0	1.1%	37.0	0.2	1.1%	0.55	1.1%
Window 89			0.68	1.37	97.83	0.66	87.6	1.5%	87.6	0.2	1.5%	0.55	1.5%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.5%			6.5%		6.5%
Window 90 (lower)			0.68	0.34	63.1	0.71	85.9	0.3%	85.9	0.2	0.3%	0.55	0.3%
Window 90 (upper)			0.68	2.24	63.1	0.71	86.2	4.2%	86.2	0.2	4.2%	0.55	4.2%
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%
Window 91 (lower)			0.68	1.38	56.55	0.69	51.6	0.6%	51.6	0.2	0.6%	0.55	0.6%
Window 91 (upper)			0.68	2.52	56.55	0.69	33.7	1.9%	33.7	0.2	1.9%	0.55	1.9%
Total ADF for room	Bedroom	1.0%						2.5%			2.5%		2.5%
Window 92 (lower)			0.68	0.77	113.05	0.69	41.4	0.1%	41.4	0.2	0.1%	0.55	0.1%
Window 92 (upper)			0.68	1.41	113.05	0.69	28.0	0.4%	28.0	0.2	0.4%	0.55	0.4%
Window 93 (lower)			0.68	0.34	113.05	0.69	89.7	0.1%	89.7	0.2	0.1%	0.55	0.1%
Window 93 (upper)			0.68	2.24	113.05	0.69	89.5	2.3%	89.5	0.2	2.3%	0.55	2.3%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.9%			2.9%		2.9%
Window 94 (lower)			0.68	0.34	63.1	0.71	89.7	0.3%	89.7	0.2	0.3%	0.55	0.3%
Window 94 (upper)			0.68	2.24	63.1	0.71	89.5	4.4%	89.5	0.2	4.4%	0.55	4.4%
Total ADF for room	Bedroom	1.0%						4.7%			4.7%		4.7%
Window 95			0.68	1.37	97.83	0.67	89.4	1.5%	89.4	0.2	1.5%	0.55	1.5%
Window 96 (lower)			0.68	1.38	97.83	0.67	46.7	0.3%	46.7	0.2	0.3%	0.55	0.3%
Window 96 (upper)			0.68	2.52	97.83	0.67	29.7	0.9%	29.7	0.2	0.9%	0.55	0.9%
Window 97 (lower)			0.68	0.34	97.83	0.67	87.1	0.1%	87.1	0.2	0.1%	0.55	0.1%
Window 97 (upper)			0.68	2.24	97.83	0.67	87.1	2.4%	87.1	0.2	2.4%	0.55	2.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						5.2%			5.2%		5.2%
Window 98 (lower)			0.68	0.26	50.11	0.71	86.6	0.2%	86.6	0.2	0.2%	0.55	0.2%
Window 98 (upper)			0.68	1.69	50.11	0.71	86.6	4.0%	86.6	0.2	4.0%	0.55	4.0%
Total ADF for room	Bedroom	1.0%						4.2%			4.2%		4.2%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 99 (lower)			0.68	0.26	50.11	0.71	86.2	0.2%	86.2	0.2	0.2%	0.55	0.2%
Window 99 (upper)			0.68	1.69	50.11	0.71	86.2	4.0%	86.2	0.2	4.0%	0.55	4.0%
Total ADF for room	Bedroom	1.0%						4.2%			4.2%		4.2%
Window 100 (lower)			0.68	0.34	97.83	0.67	85.7	0.1%	85.7	0.2	0.1%	0.55	0.1%
Window 100 (upper)			0.68	2.24	97.83	0.67	85.8	2.4%	85.8	0.2	2.4%	0.55	2.4%
Window 101 (lower)			0.68	1.38	97.83	0.67	42.5	0.3%	42.5	0.2	0.3%	0.55	0.3%
Window 101 (upper)			0.68	2.52	97.83	0.67	29.2	0.9%	29.2	0.2	0.9%	0.55	0.9%
Window 102			0.68	1.37	97.83	0.67	76.1	1.3%	76.1	0.2	1.3%	0.55	1.3%
Total ADF for room	Living/Dining/Kitchen	2.0%						5.0%			5.0%		5.0%
Window 103 (lower)			0.68	0.36	63.1	0.71	73.3	0.2%	73.3	0.2	0.2%	0.55	0.2%
Window 103 (upper)			0.68	2.24	63.1	0.71	74.7	3.6%	74.7	0.2	3.6%	0.55	3.6%
Total ADF for room	Bedroom	1.0%						3.8%			3.8%		3.8%
Window 104 (lower)			0.68	1.38	57.4	0.69	41.3	0.5%	41.3	0.2	0.5%	0.55	0.5%
Window 104 (upper)			0.68	2.52	57.4	0.69	30.2	1.7%	30.2	0.2	1.7%	0.55	1.7%
Total ADF for room	Bedroom	1.0%						2.2%			2.2%		2.2%
Window 105 (lower)			0.68	0.77	112.21	0.69	27.4	0.1%	27.4	0.2	0.1%	0.55	0.1%
Window 105 (upper)			0.68	1.41	112.21	0.69	22.8	0.4%	22.8	0.2	0.4%	0.55	0.4%
Window 106 (lower)			0.68	0.36	112.21	0.69	56.9	0.1%	56.9	0.2	0.1%	0.55	0.1%
Window 106 (upper)			0.68	2.24	112.21	0.69	58.2	1.5%	58.2	0.2	1.5%	0.55	1.5%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.1%			2.1%		2.1%
<u>Block A - Fourth Floor</u>													
Window 107 (lower)			0.68	1.38	56.55	0.69	53.1	0.7%	53.1	0.2	0.7%	0.55	0.7%
Window 107 (upper)			0.68	2.52	56.55	0.69	40.7	2.3%	40.7	0.2	2.3%	0.55	2.3%
Total ADF for room	Bedroom	1.0%						3.0%			3.0%		3.0%
Window 108 (lower)			0.68	0.77	113.05	0.69	42.3	0.1%	42.3	0.2	0.1%	0.55	0.1%
Window 108 (upper)			0.68	1.41	113.05	0.69	33.9	0.5%	33.9	0.2	0.5%	0.55	0.5%
Window 109 (lower)			0.68	0.34	113.05	0.69	80.4	0.1%	80.4	0.2	0.1%	0.55	0.1%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 109 (upper)			0.68	2.24	113.05	0.69	81.4	2.1%	81.4	0.2	2.1%	0.55	2.1%	
Total ADF for room	Living/Dining/Kitchen	2.0%						2.8%			2.8%		2.8%	
Window 110 (lower)			0.68	0.34	62.37	0.71	81.3	0.2%	81.3	0.2	0.2%	0.55	0.2%	
Window 110 (upper)			0.68	2.24	62.37	0.71	82.3	4.1%	82.3	0.2	4.1%	0.55	4.1%	
Total ADF for room	Bedroom	1.0%						4.3%			4.3%		4.3%	
Window 111			0.68	1.37	97.84	0.66	82.9	1.4%	82.9	0.2	1.4%	0.55	1.4%	
Window 112 (lower)			0.68	1.38	97.84	0.66	44.1	0.3%	44.1	0.2	0.3%	0.55	0.3%	
Window 112 (upper)			0.68	2.52	97.84	0.66	36.4	1.1%	36.4	0.2	1.1%	0.55	1.1%	
Window 113 (lower)			0.68	0.47	97.84	0.66	89.8	0.2%	89.8	0.2	0.2%	0.55	0.2%	
Window 113 (upper)			0.68	3.08	97.84	0.66	89.6	3.4%	89.6	0.2	3.4%	0.55	3.4%	
Total ADF for room	Living/Dining/Kitchen	2.0%						6.4%			6.4%		6.4%	
Window 114 (lower)			0.68	0.4	50.12	0.7	89.8	0.4%	89.8	0.2	0.4%	0.55	0.4%	
Window 114 (upper)			0.68	2.66	50.12	0.7	89.6	6.3%	89.6	0.2	6.3%	0.55	6.3%	
Total ADF for room	Bedroom	1.0%						6.7%			6.7%		6.7%	
Window 115 (lower)			0.68	0.4	50.12	0.7	89.8	0.4%	89.8	0.2	0.4%	0.55	0.4%	
Window 115 (upper)			0.68	2.66	50.12	0.7	89.6	6.3%	89.6	0.2	6.3%	0.55	6.3%	
Total ADF for room	Bedroom	1.0%						6.7%			6.7%		6.7%	
Window 116 (lower)			0.68	0.47	97.83	0.66	89.8	0.2%	89.8	0.2	0.2%	0.55	0.2%	
Window 116 (upper)			0.68	3.08	97.83	0.66	89.6	3.4%	89.6	0.2	3.4%	0.55	3.4%	
Window 117 (lower)			0.68	1.38	97.83	0.66	44.6	0.3%	44.6	0.2	0.3%	0.55	0.3%	
Window 117 (upper)			0.68	2.52	97.83	0.66	38.6	1.2%	38.6	0.2	1.2%	0.55	1.2%	
Window 118			0.68	1.37	97.83	0.66	88.7	1.5%	88.7	0.2	1.5%	0.55	1.5%	
Total ADF for room	Living/Dining/Kitchen	2.0%						6.6%			6.6%		6.6%	
Window 119 (lower)			0.68	0.34	63.1	0.71	87.7	0.3%	87.7	0.2	0.3%	0.55	0.3%	
Window 119 (upper)			0.68	2.24	63.1	0.71	88.1	4.3%	88.1	0.2	4.3%	0.55	4.3%	
Total ADF for room	Bedroom	1.0%						4.6%			4.6%		4.6%	
Window 120 (lower)			0.68	1.38	56.55	0.69	56.2	0.7%	56.2	0.2	0.7%	0.55	0.7%	
Window 120 (upper)			0.68	2.52	56.55	0.69	44.6	2.6%	44.6	0.2	2.6%	0.55	2.6%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Total ADF for room	Bedroom	1.0%									3.3%		3.3%
Window 121 (lower)			0.68	0.77	113.05	0.69	45.2	0.2%	45.2	0.2	0.2%	0.55	0.2%
Window 121 (upper)			0.68	1.41	113.05	0.69	36.3	0.6%	36.3	0.2	0.6%	0.55	0.6%
Window 122 (lower)			0.68	0.34	113.05	0.69	89.7	0.1%	89.7	0.2	0.1%	0.55	0.1%
Window 122 (upper)			0.68	2.24	113.05	0.69	89.6	2.3%	89.6	0.2	2.3%	0.55	2.3%
Total ADF for room	Living/Dining/Kitchen	2.0%									3.2%		3.2%
Window 123 (lower)			0.68	0.34	63.1	0.71	89.7	0.3%	89.7	0.2	0.3%	0.55	0.3%
Window 123 (upper)			0.68	2.24	63.1	0.71	89.6	4.4%	89.6	0.2	4.4%	0.55	4.4%
Total ADF for room	Bedroom	1.0%									4.7%		4.7%
Window 124			0.68	1.37	97.83	0.67	89.4	1.5%	89.4	0.2	1.5%	0.55	1.5%
Window 125 (lower)			0.68	1.38	97.83	0.67	51.5	0.4%	51.5	0.2	0.4%	0.55	0.4%
Window 125 (upper)			0.68	2.52	97.83	0.67	39.4	1.2%	39.4	0.2	1.2%	0.55	1.2%
Window 126 (lower)			0.68	0.34	97.83	0.67	87.7	0.1%	87.7	0.2	0.1%	0.55	0.1%
Window 126 (upper)			0.68	2.24	97.83	0.67	87.7	2.5%	87.7	0.2	2.5%	0.55	2.5%
Total ADF for room	Living/Dining/Kitchen	2.0%									5.7%		5.7%
Window 127 (lower)			0.68	0.26	50.11	0.71	87.2	0.2%	87.2	0.2	0.2%	0.55	0.2%
Window 127 (upper)			0.68	1.69	50.11	0.71	87.3	4.1%	87.3	0.2	4.1%	0.55	4.1%
Total ADF for room	Bedroom	1.0%									4.3%		4.3%
Window 128 (lower)			0.68	0.26	50.11	0.71	86.9	0.2%	86.9	0.2	0.2%	0.55	0.2%
Window 128 (upper)			0.68	1.69	50.11	0.71	87.0	4.1%	87.0	0.2	4.1%	0.55	4.1%
Total ADF for room	Bedroom	1.0%									4.3%		4.3%
Window 129 (lower)			0.68	0.34	97.83	0.67	86.6	0.1%	86.6	0.2	0.1%	0.55	0.1%
Window 129 (upper)			0.68	2.24	97.83	0.67	86.7	2.4%	86.7	0.2	2.4%	0.55	2.4%
Window 130 (lower)			0.68	1.38	97.83	0.67	46.7	0.3%	46.7	0.2	0.3%	0.55	0.3%
Window 130 (upper)			0.68	2.52	97.83	0.67	35.1	1.1%	35.1	0.2	1.1%	0.55	1.1%
Window 131			0.68	1.37	97.83	0.67	80.3	1.4%	80.3	0.2	1.4%	0.55	1.4%
Total ADF for room	Living/Dining/Kitchen	2.0%									5.3%		5.3%
Window 132 (lower)			0.68	0.36	63.1	0.71	78.3	0.2%	78.3	0.2	0.2%	0.55	0.2%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	ADF		θ _{no trees}	T _{psummer}	ADF	T _{pwinter}	ADF
Window 132 (upper)			0.68	2.24	63.1	0.71	79.6	3.9%	79.6	0.2	3.9%	0.55	3.9%	
Total ADF for room	Bedroom	1.0%						4.1%			4.1%		4.1%	
Window 133 (lower)			0.68	1.38	57.4	0.69	44.7	0.6%	44.7	0.2	0.6%	0.55	0.6%	
Window 133 (upper)			0.68	2.52	57.4	0.69	35.7	2.0%	35.7	0.2	2.0%	0.55	2.0%	
Total ADF for room	Bedroom	1.0%						2.6%			2.6%		2.6%	
Window 134 (lower)			0.68	0.77	112.21	0.69	29.3	0.1%	29.3	0.2	0.1%	0.55	0.1%	
Window 134 (upper)			0.68	1.41	112.21	0.69	26.6	0.4%	26.6	0.2	0.4%	0.55	0.4%	
Window 135 (lower)			0.68	0.36	112.21	0.69	62.9	0.1%	62.9	0.2	0.1%	0.55	0.1%	
Window 135 (upper)			0.68	2.24	112.21	0.69	65.4	1.7%	65.4	0.2	1.7%	0.55	1.7%	
Total ADF for room	Living/Dining/Kitchen	2.0%						2.3%			2.3%		2.3%	
Proposed Block B														
Block B - Ground Floor														
Window 136 (lower)			0.68	0.34	55.22	0.7	84.5	0.3%	84.5	0.2	0.3%	0.55	0.3%	
Window 136 (upper)			0.68	2.24	55.22	0.7	85.0	4.6%	85.0	0.2	4.6%	0.55	4.6%	
Total ADF for room	Bedroom	1.0%						4.9%			4.9%		4.9%	
Window 137 (lower)			0.68	0.26	102.72	0.67	84.5	0.1%	84.5	0.2	0.1%	0.55	0.1%	
Window 137 (upper)			0.68	1.69	102.72	0.67	85.0	1.7%	85.0	0.2	1.7%	0.55	1.7%	
Window 138 (lower)			0.68	1.38	102.72	0.67	33.0	0.2%	33.0	0.2	0.2%	0.55	0.2%	
Window 138 (upper)			0.68	2.52	102.72	0.67	27.0	0.8%	27.0	0.2	0.8%	0.55	0.8%	
Window 139			0.68	1.37	102.72	0.67	65.4	1.1%	65.4	0.2	1.1%	0.55	1.1%	
Total ADF for room	Living/Dining/Kitchen	2.0%						3.9%			3.9%		3.9%	
Window 140 (lower)			0.68	0.26	49.07	0.71	63.9	0.2%	63.9	0.2	0.2%	0.55	0.2%	
Window 140 (upper)			0.68	1.69	49.07	0.71	64.3	3.0%	64.3	0.2	3.0%	0.55	3.0%	
Total ADF for room	Bedroom	1.0%						3.2%			3.2%		3.2%	
Window 141 (lower)			0.68	0.34	114.4	0.69	63.0	0.1%	63.0	0.2	0.1%	0.55	0.1%	
Window 141 (upper)			0.68	2.24	114.4	0.69	63.4	1.6%	63.4	0.2	1.6%	0.55	1.6%	
Window 142 (lower)			0.68	0.77	114.4	0.69	31.1	0.1%	31.1	0.2	0.1%	0.55	0.1%	
Window 142 (upper)			0.68	1.41	114.4	0.69	16.7	0.3%	16.7	0.2	0.3%	0.55	0.3%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Total ADF for room	Living/Dining/Kitchen	2.0%									2.1%		2.1%	
Window 143 (lower)			0.68	1.38	56.55	0.69	30.8	0.4%	30.8	0.2	0.4%	0.55	0.4%	
Window 143 (upper)			0.68	2.52	56.55	0.69	14.7	0.8%	14.7	0.2	0.8%	0.55	0.8%	
Total ADF for room	Bedroom	1.0%									1.2%		1.2%	
Window 144 (lower)			0.68	0.26	49.07	0.71	61.1	0.2%	61.1	0.2	0.2%	0.55	0.2%	
Window 144 (upper)			0.68	1.69	49.07	0.71	61.7	2.9%	61.7	0.2	2.9%	0.55	2.9%	
Total ADF for room	Bedroom	1.0%									3.1%		3.1%	
Window 145			0.68	1.37	102.72	0.67	63.8	1.1%	63.8	0.2	1.1%	0.55	1.1%	
Window 146 (lower)			0.68	1.38	102.72	0.67	30.7	0.2%	30.7	0.2	0.2%	0.55	0.2%	
Window 146 (upper)			0.68	2.52	102.72	0.67	14.7	0.4%	14.7	0.2	0.4%	0.55	0.4%	
Window 147 (lower)			0.68	0.26	102.72	0.67	53.0	0.1%	53.0	0.2	0.1%	0.55	0.1%	
Window 147 (upper)			0.68	1.69	102.72	0.67	53.7	1.1%	53.7	0.2	1.1%	0.55	1.1%	
Total ADF for room	Living/Dining/Kitchen	2.0%									2.9%		2.9%	
Window 148 (lower)			0.68	0.34	55.22	0.7	52.6	0.2%	52.6	0.2	0.2%	0.55	0.2%	
Window 148 (upper)			0.68	2.24	55.22	0.7	53.4	2.9%	53.4	0.2	2.9%	0.55	2.9%	
Total ADF for room	Bedroom	1.0%									3.1%		3.1%	
Window 149 (lower)			0.68	0.34	50.07	0.7	54.3	0.2%	54.3	0.2	0.2%	0.55	0.2%	
Window 149 (upper)			0.68	2.24	50.07	0.7	55.0	3.3%	55.0	0.2	3.3%	0.55	3.3%	
Total ADF for room	Bedroom	1.0%									3.5%		3.5%	
Window 150			0.68	1.37	118.66	0.67	79.7	1.1%	79.7	0.2	1.1%	0.55	1.1%	
Window 150 (lower)			0.68	1.38	118.66	0.67	42.0	0.2%	42.0	0.2	0.2%	0.55	0.2%	
Window 151 (upper)			0.68	2.52	118.66	0.67	22.2	0.6%	22.2	0.2	0.6%	0.55	0.6%	
Window 151 (lower)			0.68	0.26	118.66	0.67	56.9	0.1%	56.9	0.2	0.1%	0.55	0.1%	
Window 152 (upper)			0.68	1.69	118.66	0.67	57.7	1.0%	57.7	0.2	1.0%	0.55	1.0%	
Total ADF for room	Living/Dining/Kitchen	2.0%									3.0%		3.0%	
Window 153 (lower)			0.68	0.26	60.16	0.71	79.2	0.2%	79.2	0.2	0.2%	0.55	0.2%	
Window 153 (upper)			0.68	1.69	60.16	0.71	79.8	3.0%	79.8	0.2	3.0%	0.55	3.0%	
Total ADF for room	Bedroom	1.0%									3.2%		3.2%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 154 (lower)			0.68	0.34	66.74	0.7	79.9	0.2%	79.9	0.2	0.2%	0.55	0.2%	
Window 154 (upper)			0.68	2.24	66.74	0.7	80.5	3.6%	80.5	0.2	3.6%	0.55	3.6%	
Total ADF for room	Bedroom	1.0%						3.8%			3.8%		3.8%	
Block B - First Floor														
Window 155 (lower)			0.68	0.34	55.5	0.7	86.8	0.3%	86.8	0.2	0.3%	0.55	0.3%	
Window 155 (upper)			0.68	2.24	55.5	0.7	87.1	4.7%	87.1	0.2	4.7%	0.55	4.7%	
Total ADF for room	Bedroom	1.0%						5.0%			5.0%		5.0%	
Window 156 (lower)			0.68	0.26	102.72	0.67	86.8	0.1%	86.8	0.2	0.1%	0.55	0.1%	
Window 156 (upper)			0.68	1.69	102.72	0.67	87.1	1.8%	87.1	0.2	1.8%	0.55	1.8%	
Window 157 (lower)			0.68	1.38	102.72	0.67	34.2	0.2%	34.2	0.2	0.2%	0.55	0.2%	
Window 157 (upper)			0.68	2.52	102.72	0.67	27.7	0.8%	27.7	0.2	0.8%	0.55	0.8%	
Window 158 (lower)			0.68	0.26	102.72	0.67	66.6	0.1%	66.6	0.2	0.1%	0.55	0.1%	
Window 158 (upper)			0.68	1.69	102.72	0.67	67.0	1.3%	67.0	0.2	1.3%	0.55	1.3%	
Total ADF for room	Living/Dining/Kitchen	2.0%						4.3%			4.3%		4.3%	
Window 159 (lower)			0.68	0.26	49.07	0.71	65.9	0.2%	65.9	0.2	0.2%	0.55	0.2%	
Window 159 (upper)			0.68	1.69	49.07	0.71	66.4	3.1%	66.4	0.2	3.1%	0.55	3.1%	
Total ADF for room	Bedroom	1.0%						3.3%			3.3%		3.3%	
Window 160 (lower)			0.68	0.34	113.05	0.69	65.1	0.1%	65.1	0.2	0.1%	0.55	0.1%	
Window 160 (upper)			0.68	2.24	113.05	0.69	65.6	1.7%	65.6	0.2	1.7%	0.55	1.7%	
Window 161 (lower)			0.68	0.77	113.05	0.69	31.2	0.1%	31.2	0.2	0.1%	0.55	0.1%	
Window 161 (upper)			0.68	1.41	113.05	0.69	17.9	0.3%	17.9	0.2	0.3%	0.55	0.3%	
Total ADF for room	Living/Dining/Kitchen	2.0%						2.2%			2.2%		2.2%	
Window 162 (lower)			0.68	1.38	56.55	0.69	33.6	0.4%	33.6	0.2	0.4%	0.55	0.4%	
Window 162 (upper)			0.68	2.52	56.55	0.69	14.9	0.9%	14.9	0.2	0.9%	0.55	0.9%	
Total ADF for room	Bedroom	1.0%						1.3%			1.3%		1.3%	
Window 163 (lower)			0.68	0.26	49.07	0.71	63.4	0.2%	63.4	0.2	0.2%	0.55	0.2%	
Window 163 (upper)			0.68	1.78	49.07	0.71	64.0	3.2%	64.0	0.2	3.2%	0.55	3.2%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Total ADF for room	Bedroom	1.0%									3.4%		3.4%	
Window 164			0.68	1.47	102.72	0.67	66.3	1.2%	66.3	0.2	1.2%	0.55	1.2%	
Window 165 (lower)			0.68	1.38	102.72	0.67	33.5	0.2%	33.5	0.2	0.2%	0.55	0.2%	
Window 165 (upper)			0.68	2.67	102.72	0.67	14.1	0.5%	14.1	0.2	0.5%	0.55	0.5%	
Window 166 (lower)			0.68	0.26	102.72	0.67	56.7	0.1%	56.7	0.2	0.1%	0.55	0.1%	
Window 166 (upper)			0.68	1.78	102.72	0.67	57.7	1.2%	57.7	0.2	1.2%	0.55	1.2%	
Total ADF for room	Living/Dining/Kitchen	2.0%									3.2%		3.2%	
Window 167 (lower)			0.68	0.34	55.5	0.7	55.9	0.2%	55.9	0.2	0.2%	0.55	0.2%	
Window 167 (upper)			0.68	2.37	55.5	0.7	57.1	3.3%	57.1	0.2	3.3%	0.55	3.3%	
Total ADF for room	Bedroom	1.0%									3.5%		3.5%	
Window 168 (lower)			0.68	0.34	55.5	0.7	57.6	0.2%	57.6	0.2	0.2%	0.55	0.2%	
Window 168 (upper)			0.68	2.37	55.5	0.7	58.7	3.3%	58.7	0.2	3.3%	0.55	3.3%	
Total ADF for room	Bedroom	1.0%									3.5%		3.5%	
Window 169 (lower)			0.68	0.26	102.72	0.67	60.2	0.1%	60.2	0.2	0.1%	0.55	0.1%	
Window 169 (upper)			0.68	1.78	102.72	0.67	61.1	1.3%	61.1	0.2	1.3%	0.55	1.3%	
Window 170 (lower)			0.68	1.38	102.72	0.67	42.1	0.3%	42.1	0.2	0.3%	0.55	0.3%	
Window 170 (upper)			0.68	2.52	102.72	0.67	23.4	0.7%	23.4	0.2	0.7%	0.55	0.7%	
Window 171			0.68	1.37	102.72	0.67	82.3	1.4%	82.3	0.2	1.4%	0.55	1.4%	
Total ADF for room	Living/Dining/Kitchen	2.0%									3.8%		3.8%	
Window 172 (lower)			0.68	0.26	49.07	0.71	81.7	0.2%	81.7	0.2	0.2%	0.55	0.2%	
Window 172 (upper)			0.68	1.69	49.07	0.71	82.4	3.9%	82.4	0.2	3.9%	0.55	3.9%	
Total ADF for room	Bedroom	1.0%									4.1%		4.1%	
Window 173 (lower)			0.68	0.34	113.04	0.69	82.4	0.1%	82.4	0.2	0.1%	0.55	0.1%	
Window 173 (upper)			0.68	2.24	113.04	0.69	83.0	2.1%	83.0	0.2	2.1%	0.55	2.1%	
Window 174 (lower)			0.68	0.77	113.04	0.69	37.4	0.1%	37.4	0.2	0.1%	0.55	0.1%	
Window 174 (upper)			0.68	1.41	113.04	0.69	34.3	0.6%	34.3	0.2	0.6%	0.55	0.6%	
Total ADF for room	Living/Dining/Kitchen	2.0%									2.9%		2.9%	
Window 175 (lower)			0.68	1.38	56.55	0.69	46.5	0.6%	46.5	0.2	0.6%	0.55	0.6%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 175 (upper)			0.68	2.52	56.55	0.69	41.0	2.3%	41.0	0.2	2.3%	0.55	2.3%	
Total ADF for room	Bedroom	1.0%						2.9%			2.9%		2.9%	
Window 176 (lower)			0.68	0.34	112.2	0.69	61.1	0.1%	61.1	0.2	0.1%	0.55	0.1%	
Window 176 (upper)			0.68	2.24	112.2	0.69	61.3	1.6%	61.3	0.2	1.6%	0.55	1.6%	
Window 177 (lower)			0.68	0.77	112.2	0.69	28.6	0.1%	28.6	0.2	0.1%	0.55	0.1%	
Window 177 (upper)			0.68	1.41	112.2	0.69	28.4	0.5%	28.4	0.2	0.5%	0.55	0.5%	
Total ADF for room	Living/Dining/Kitchen	2.0%						2.3%			2.3%		2.3%	
Window 178 (lower)			0.68	1.38	57.4	0.69	44.4	0.5%	44.4	0.2	0.5%	0.55	0.5%	
Window 178 (upper)			0.68	2.52	57.4	0.69	39.9	2.2%	39.9	0.2	2.2%	0.55	2.2%	
Total ADF for room	Bedroom	1.0%						2.7%			2.7%		2.7%	
Window 179 (lower)			0.68	0.26	49.07	0.71	77.8	0.2%	77.8	0.2	0.2%	0.55	0.2%	
Window 179 (upper)			0.68	1.69	49.07	0.71	78.3	3.7%	78.3	0.2	3.7%	0.55	3.7%	
Total ADF for room	Bedroom	1.0%						3.9%			3.9%		3.9%	
Window 180			0.68	1.37	102.72	0.67	80.9	1.3%	80.9	0.2	1.3%	0.55	1.3%	
Window 181 (lower)			0.68	1.38	102.72	0.67	44.8	0.3%	44.8	0.2	0.3%	0.55	0.3%	
Window 181 (upper)			0.68	2.52	102.72	0.67	38.7	1.2%	38.7	0.2	1.2%	0.55	1.2%	
Window 182 (lower)			0.68	0.26	102.72	0.67	86.6	0.1%	86.6	0.2	0.1%	0.55	0.1%	
Window 182 (upper)			0.68	1.69	102.72	0.67	87.0	1.8%	87.0	0.2	1.8%	0.55	1.8%	
Total ADF for room	Living/Dining/Kitchen	2.0%						4.7%			4.7%		4.7%	
Window 183 (lower)			0.68	0.34	55.5	0.7	86.7	0.3%	86.7	0.2	0.3%	0.55	0.3%	
Window 183 (upper)			0.68	2.24	55.5	0.7	87.1	4.7%	87.1	0.2	4.7%	0.55	4.7%	
Total ADF for room	Bedroom	1.0%						5.0%			5.0%		5.0%	
<u>Block B - Second Floor</u>														
Window 184 (lower)			0.68	0.34	55.5	0.7	88.6	0.3%	88.6	0.2	0.3%	0.55	0.3%	
Window 184 (upper)			0.68	2.24	55.5	0.7	88.8	4.8%	88.8	0.2	4.8%	0.55	4.8%	
Total ADF for room	Bedroom	1.0%						5.1%			5.1%		5.1%	
Window 185 (lower)			0.68	0.26	102.72	0.67	88.6	0.1%	88.6	0.2	0.1%	0.55	0.1%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 185 (upper)			0.68	1.69	102.72	0.67	88.7	1.8%	88.7	0.2	1.8%	0.55	1.8%
Window 186 (lower)			0.68	1.38	102.72	0.67	35.4	0.2%	35.4	0.2	0.2%	0.55	0.2%
Window 186 (upper)			0.68	2.52	102.72	0.67	28.2	0.8%	28.2	0.2	0.8%	0.55	0.8%
Window 187 (lower)			0.68	0.26	102.72	0.67	68.7	0.1%	68.7	0.2	0.1%	0.55	0.1%
Window 187 (upper)			0.68	1.69	102.72	0.67	69.3	1.4%	69.3	0.2	1.4%	0.55	1.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						4.4%			4.4%		4.4%
Window 188 (lower)			0.68	0.26	49.07	0.71	68.1	0.2%	68.1	0.2	0.2%	0.55	0.2%
Window 188 (upper)			0.68	1.69	49.07	0.71	68.7	3.2%	68.7	0.2	3.2%	0.55	3.2%
Total ADF for room	Bedroom	1.0%						3.4%			3.4%		3.4%
Window 189 (lower)			0.68	0.34	113.05	0.69	67.4	0.1%	67.4	0.2	0.1%	0.55	0.1%
Window 189 (upper)			0.68	2.24	113.05	0.69	68.0	1.7%	68.0	0.2	1.7%	0.55	1.7%
Window 190 (lower)			0.68	0.77	113.05	0.69	32.7	0.1%	32.7	0.2	0.1%	0.55	0.1%
Window 190 (upper)			0.68	1.41	113.05	0.69	19.4	0.3%	19.4	0.2	0.3%	0.55	0.3%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.2%			2.2%		2.2%
Window 191 (lower)			0.68	1.38	56.55	0.69	35.9	0.5%	35.9	0.2	0.5%	0.55	0.5%
Window 191 (upper)			0.68	2.52	56.55	0.69	15.7	0.9%	15.7	0.2	0.9%	0.55	0.9%
Total ADF for room	Bedroom	1.0%						1.4%			1.4%		1.4%
Window 192 (lower)			0.68	0.26	49.07	0.71	66.1	0.2%	66.1	0.2	0.2%	0.55	0.2%
Window 192 (upper)			0.68	1.78	49.07	0.71	66.7	3.3%	66.7	0.2	3.3%	0.55	3.3%
Total ADF for room	Bedroom	1.0%						3.5%			3.5%		3.5%
Window 193			0.68	1.47	102.72	0.67	69.1	1.2%	69.1	0.2	1.2%	0.55	1.2%
Window 194 (lower)			0.68	1.38	102.72	0.67	36.0	0.2%	36.0	0.2	0.2%	0.55	0.2%
Window 194 (upper)			0.68	2.67	102.72	0.67	14.6	0.5%	14.6	0.2	0.5%	0.55	0.5%
Window 195 (lower)			0.68	0.26	102.72	0.67	60.7	0.1%	60.7	0.2	0.1%	0.55	0.1%
Window 195 (upper)			0.68	1.78	102.72	0.67	62.0	1.3%	62.0	0.2	1.3%	0.55	1.3%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.3%			3.3%		3.3%
Window 196 (lower)			0.68	0.34	55.5	0.7	60.1	0.2%	60.1	0.2	0.2%	0.55	0.2%
Window 196 (upper)			0.68	2.37	55.5	0.7	61.4	3.5%	61.4	0.2	3.5%	0.55	3.5%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees		Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF		
Total ADF for room	Bedroom	1.0%									3.7%		3.7%		
Window 197 (lower)			0.68	0.34	55.5	0.7	61.6	0.2%	61.6	0.2	0.2%	0.55	0.2%		
Window 197 (upper)			0.68	2.37	55.5	0.7	62.9	3.6%	62.9	0.2	3.6%	0.55	3.6%		
Total ADF for room	Bedroom	1.0%									3.8%		3.8%		
Window 198 (lower)			0.68	0.26	102.72	0.67	64.0	0.1%	64.0	0.2	0.1%	0.55	0.1%		
Window 198 (upper)			0.68	1.78	102.72	0.67	65.2	1.4%	65.2	0.2	1.4%	0.55	1.4%		
Window 199 (lower)			0.68	1.38	102.72	0.67	43.5	0.3%	43.5	0.2	0.3%	0.55	0.3%		
Window 199 (upper)			0.68	2.52	102.72	0.67	25.4	0.8%	25.4	0.2	0.8%	0.55	0.8%		
Window 200			0.68	1.37	102.72	0.67	84.7	1.4%	84.7	0.2	1.4%	0.55	1.4%		
Total ADF for room	Living/Dining/Kitchen	2.0%									4.0%		4.0%		
Window 201 (lower)			0.68	0.26	49.07	0.71	84.3	0.2%	84.3	0.2	0.2%	0.55	0.2%		
Window 201 (upper)			0.68	1.69	49.07	0.71	84.7	4.0%	84.7	0.2	4.0%	0.55	4.0%		
Total ADF for room	Bedroom	1.0%									4.2%		4.2%		
Window 202 (lower)			0.68	0.34	113.04	0.69	84.9	0.1%	84.9	0.2	0.1%	0.55	0.1%		
Window 202 (upper)			0.68	2.24	113.04	0.69	85.3	2.2%	85.3	0.2	2.2%	0.55	2.2%		
Window 203 (lower)			0.68	0.77	113.04	0.69	37.5	0.1%	37.5	0.2	0.1%	0.55	0.1%		
Window 203 (upper)			0.68	1.41	113.04	0.69	35.1	0.6%	35.1	0.2	0.6%	0.55	0.6%		
Total ADF for room	Living/Dining/Kitchen	2.0%									3.0%		3.0%		
Window 204 (lower)			0.68	1.38	56.55	0.69	46.5	0.6%	46.5	0.2	0.6%	0.55	0.6%		
Window 204 (upper)			0.68	2.52	56.55	0.69	41.6	2.4%	41.6	0.2	2.4%	0.55	2.4%		
Total ADF for room	Bedroom	1.0%									3.0%		3.0%		
Window 205 (lower)			0.68	0.34	112.2	0.69	61.9	0.1%	61.9	0.2	0.1%	0.55	0.1%		
Window 205 (upper)			0.68	2.24	112.2	0.69	61.9	1.6%	61.9	0.2	1.6%	0.55	1.6%		
Window 206 (lower)			0.68	0.77	112.2	0.69	28.4	0.1%	28.4	0.2	0.1%	0.55	0.1%		
Window 206 (upper)			0.68	1.41	112.2	0.69	28.6	0.5%	28.6	0.2	0.5%	0.55	0.5%		
Total ADF for room	Living/Dining/Kitchen	2.0%									2.3%		2.3%		
Window 207 (lower)			0.68	1.38	57.4	0.69	44.4	0.5%	44.4	0.2	0.5%	0.55	0.5%		
Window 207 (upper)			0.68	2.52	57.4	0.69	40.4	2.3%	40.4	0.2	2.3%	0.55	2.3%		

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Total ADF for room	Bedroom	1.0%									2.8%		2.8%
Window 208 (lower)			0.68	0.26	49.07	0.71	79.6	0.2%	79.6	0.2	0.2%	0.55	0.2%
Window 208 (upper)			0.68	1.69	49.07	0.71	79.9	3.8%	79.9	0.2	3.8%	0.55	3.8%
Total ADF for room	Bedroom	1.0%									4.0%		4.0%
Window 209			0.68	1.37	102.72	0.67	82.6	1.4%	82.6	0.2	1.4%	0.55	1.4%
Window 210 (lower)			0.68	1.38	102.72	0.67	44.8	0.3%	44.8	0.2	0.3%	0.55	0.3%
Window 210 (upper)			0.68	2.52	102.72	0.67	39.1	1.2%	39.1	0.2	1.2%	0.55	1.2%
Window 211 (lower)			0.68	0.26	102.72	0.67	88.5	0.1%	88.5	0.2	0.1%	0.55	0.1%
Window 211 (upper)			0.68	1.69	102.72	0.67	88.7	1.8%	88.7	0.2	1.8%	0.55	1.8%
Total ADF for room	Living/Dining/Kitchen	2.0%									4.8%		4.8%
Window 212 (lower)			0.68	0.34	55.5	0.7	88.6	0.3%	88.6	0.2	0.3%	0.55	0.3%
Window 212 (upper)			0.68	2.24	55.5	0.7	88.8	4.8%	88.8	0.2	4.8%	0.55	4.8%
Total ADF for room	Bedroom	1.0%									5.1%		5.1%
<u>Block B - Third Floor</u>													
Window 213 (lower)			0.68	0.34	55.5	0.7	89.5	0.3%	89.5	0.2	0.3%	0.55	0.3%
Window 213 (upper)			0.68	2.24	55.5	0.7	89.4	4.8%	89.4	0.2	4.8%	0.55	4.8%
Total ADF for room	Bedroom	1.0%									5.1%		5.1%
Window 214 (lower)			0.68	0.26	102.72	0.67	89.4	0.1%	89.4	0.2	0.1%	0.55	0.1%
Window 214 (upper)			0.68	1.69	102.72	0.67	89.3	1.8%	89.3	0.2	1.8%	0.55	1.8%
Window 215 (lower)			0.68	1.38	102.72	0.67	36.7	0.2%	36.7	0.2	0.2%	0.55	0.2%
Window 215 (upper)			0.68	2.52	102.72	0.67	28.8	0.9%	28.8	0.2	0.9%	0.55	0.9%
Window 216 (lower)			0.68	0.26	102.72	0.67	71.1	0.1%	71.1	0.2	0.1%	0.55	0.1%
Window 216 (upper)			0.68	1.69	102.72	0.67	71.6	1.4%	71.6	0.2	1.4%	0.55	1.4%
Total ADF for room	Living/Dining/Kitchen	2.0%									4.5%		4.5%
Window 217 (lower)			0.68	0.26	49.07	0.71	70.5	0.2%	70.5	0.2	0.2%	0.55	0.2%
Window 217 (upper)			0.68	1.69	49.07	0.71	71.1	3.3%	71.1	0.2	3.3%	0.55	3.3%
Total ADF for room	Bedroom	1.0%									3.5%		3.5%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 218 (lower)			0.68	0.34	113.05	0.69	70.0	0.1%	70.0	0.2	0.1%	0.55	0.1%
Window 218 (upper)			0.68	2.24	113.05	0.69	70.6	1.8%	70.6	0.2	1.8%	0.55	1.8%
Window 219 (lower)			0.68	0.77	113.05	0.69	34.1	0.1%	34.1	0.2	0.1%	0.55	0.1%
Window 219 (upper)			0.68	1.41	113.05	0.69	21.1	0.3%	21.1	0.2	0.3%	0.55	0.3%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.3%			2.3%		2.3%
Window 220 (lower)			0.68	1.38	56.55	0.69	38.2	0.5%	38.2	0.2	0.5%	0.55	0.5%
Window 220 (upper)			0.68	2.52	56.55	0.69	18.2	1.0%	18.2	0.2	1.0%	0.55	1.0%
Total ADF for room	Bedroom	1.0%						1.5%			1.5%		1.5%
Window 221 (lower)			0.68	0.26	49.07	0.71	68.9	0.2%	68.9	0.2	0.2%	0.55	0.2%
Window 221 (upper)			0.68	1.78	49.07	0.71	69.7	3.5%	69.7	0.2	3.5%	0.55	3.5%
Total ADF for room	Bedroom	1.0%						3.7%			3.7%		3.7%
Window 222			0.68	1.47	102.72	0.67	72.0	1.3%	72.0	0.2	1.3%	0.55	1.3%
Window 223 (lower)			0.68	1.38	102.72	0.67	38.2	0.3%	38.2	0.2	0.3%	0.55	0.3%
Window 223 (upper)			0.68	2.67	102.72	0.67	16.5	0.5%	16.5	0.2	0.5%	0.55	0.5%
Window 224 (lower)			0.68	0.26	102.72	0.67	65.8	0.1%	65.8	0.2	0.1%	0.55	0.1%
Window 224 (upper)			0.68	1.78	102.72	0.67	67.4	1.4%	67.4	0.2	1.4%	0.55	1.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.6%			3.6%		3.6%
Window 225 (lower)			0.68	0.34	55.5	0.7	65.3	0.2%	65.3	0.2	0.2%	0.55	0.2%
Window 225 (upper)			0.68	2.37	55.5	0.7	67.0	3.8%	67.0	0.2	3.8%	0.55	3.8%
Total ADF for room	Bedroom	1.0%						4.0%			4.0%		4.0%
Window 226 (lower)			0.68	0.34	55.5	0.7	66.7	0.2%	66.7	0.2	0.2%	0.55	0.2%
Window 226 (upper)			0.68	2.37	55.5	0.7	68.3	3.9%	68.3	0.2	3.9%	0.55	3.9%
Total ADF for room	Bedroom	1.0%						4.1%			4.1%		4.1%
Window 227 (lower)			0.68	0.26	102.72	0.67	68.7	0.1%	68.7	0.2	0.1%	0.55	0.1%
Window 227 (upper)			0.68	1.78	102.72	0.67	70.2	1.5%	70.2	0.2	1.5%	0.55	1.5%
Window 228 (lower)			0.68	1.38	102.72	0.67	44.7	0.3%	44.7	0.2	0.3%	0.55	0.3%
Window 228 (upper)			0.68	2.52	102.72	0.67	27.3	0.8%	27.3	0.2	0.8%	0.55	0.8%
Window 229			0.68	1.37	102.72	0.67	86.4	1.4%	86.4	0.2	1.4%	0.55	1.4%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees		Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF		
Total ADF for room	Living/Dining/Kitchen	2.0%									4.1%			4.1%	
Window 230 (lower)			0.68	0.26	49.07	0.71	86.3	0.2%	86.3	0.2	0.2%	0.55	0.2%		
Window 230 (upper)			0.68	1.69	49.07	0.71	86.6	4.1%	86.6	0.2	4.1%	0.55	4.1%		
Total ADF for room	Bedroom	1.0%									4.3%			4.3%	
Window 231 (lower)			0.68	0.34	113.04	0.69	86.8	0.1%	86.8	0.2	0.1%	0.55	0.1%		
Window 231 (upper)			0.68	2.24	113.04	0.69	87.0	2.2%	87.0	0.2	2.2%	0.55	2.2%		
Window 232 (lower)			0.68	0.77	113.04	0.69	37.5	0.1%	37.5	0.2	0.1%	0.55	0.1%		
Window 232 (upper)			0.68	1.41	113.04	0.69	35.4	0.6%	35.4	0.2	0.6%	0.55	0.6%		
Total ADF for room	Living/Dining/Kitchen	2.0%									3.0%			3.0%	
Window 233 (lower)			0.68	1.38	56.55	0.69	46.5	0.6%	46.5	0.2	0.6%	0.55	0.6%		
Window 233 (upper)			0.68	2.52	56.55	0.69	42.0	2.4%	42.0	0.2	2.4%	0.55	2.4%		
Total ADF for room	Bedroom	1.0%									3.0%			3.0%	
Window 234 (lower)			0.68	0.34	112.2	0.69	62.3	0.1%	62.3	0.2	0.1%	0.55	0.1%		
Window 234 (upper)			0.68	2.24	112.2	0.69	62.2	1.6%	62.2	0.2	1.6%	0.55	1.6%		
Window 235 (lower)			0.68	0.77	112.2	0.69	28.4	0.1%	28.4	0.2	0.1%	0.55	0.1%		
Window 235 (upper)			0.68	1.41	112.2	0.69	28.6	0.5%	28.6	0.2	0.5%	0.55	0.5%		
Total ADF for room	Living/Dining/Kitchen	2.0%									2.3%			2.3%	
Window 236 (lower)			0.68	1.38	57.4	0.69	44.4	0.5%	44.4	0.2	0.5%	0.55	0.5%		
Window 236 (upper)			0.68	2.52	57.4	0.69	40.8	2.3%	40.8	0.2	2.3%	0.55	2.3%		
Total ADF for room	Bedroom	1.0%									2.8%			2.8%	
Window 237 (lower)			0.68	0.26	49.07	0.71	80.9	0.2%	80.9	0.2	0.2%	0.55	0.2%		
Window 237 (upper)			0.68	1.69	49.07	0.71	81.1	3.8%	81.1	0.2	3.8%	0.55	3.8%		
Total ADF for room	Bedroom	1.0%									4.0%			4.0%	
Window 238			0.68	1.37	102.72	0.67	83.6	1.4%	83.6	0.2	1.4%	0.55	1.4%		
Window 239 (lower)			0.68	1.38	102.72	0.67	44.8	0.3%	44.8	0.2	0.3%	0.55	0.3%		
Window 239 (upper)			0.68	2.52	102.72	0.67	39.4	1.2%	39.4	0.2	1.2%	0.55	1.2%		
Window 240 (lower)			0.68	0.26	102.72	0.67	89.5	0.1%	89.5	0.2	0.1%	0.55	0.1%		
Window 240 (upper)			0.68	1.69	102.72	0.67	89.3	1.8%	89.3	0.2	1.8%	0.55	1.8%		

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Total ADF for room	Living/Dining/Kitchen	2.0%									4.8%		4.8%
Window 241 (lower)			0.68	0.34	55.5	0.7	89.6	0.3%	89.6	0.2	0.3%	0.55	0.3%
Window 241 (upper)			0.68	2.24	55.5	0.7	89.4	4.8%	89.4	0.2	4.8%	0.55	4.8%
Total ADF for room	Bedroom	1.0%									5.1%		5.1%
<u>Block B - Fourth Floor</u>													
Window 242 (lower)			0.68	0.34	55.5	0.7	89.7	0.3%	89.7	0.2	0.3%	0.55	0.3%
Window 242 (upper)			0.68	2.24	55.5	0.7	89.5	4.8%	89.5	0.2	4.8%	0.55	4.8%
Total ADF for room	Bedroom	1.0%									5.1%		5.1%
Window 243 (lower)			0.68	0.26	102.72	0.67	89.6	0.1%	89.6	0.2	0.1%	0.55	0.1%
Window 243 (upper)			0.68	1.69	102.72	0.67	89.4	1.8%	89.4	0.2	1.8%	0.55	1.8%
Window 244 (lower)			0.68	1.38	102.72	0.67	38.1	0.3%	38.1	0.2	0.3%	0.55	0.3%
Window 244 (upper)			0.68	2.52	102.72	0.67	30.1	0.9%	30.1	0.2	0.9%	0.55	0.9%
Window 245 (lower)			0.68	0.26	102.72	0.67	73.6	0.1%	73.6	0.2	0.1%	0.55	0.1%
Window 245 (upper)			0.68	1.69	102.72	0.67	74.1	1.5%	74.1	0.2	1.5%	0.55	1.5%
Total ADF for room	Living/Dining/Kitchen	2.0%									4.7%		4.7%
Window 246 (lower)			0.68	0.26	49.07	0.71	73.1	0.2%	73.1	0.2	0.2%	0.55	0.2%
Window 246 (upper)			0.68	1.69	49.07	0.71	73.7	3.5%	73.7	0.2	3.5%	0.55	3.5%
Total ADF for room	Bedroom	1.0%									3.7%		3.7%
Window 247 (lower)			0.68	0.34	113.05	0.69	72.6	0.1%	72.6	0.2	0.1%	0.55	0.1%
Window 247 (upper)			0.68	2.24	113.05	0.69	73.3	1.9%	73.3	0.2	1.9%	0.55	1.9%
Window 248 (lower)			0.68	0.77	113.05	0.69	35.3	0.1%	35.3	0.2	0.1%	0.55	0.1%
Window 248 (upper)			0.68	1.41	113.05	0.69	23.2	0.4%	23.2	0.2	0.4%	0.55	0.4%
Total ADF for room	Living/Dining/Kitchen	2.0%									2.5%		2.5%
Window 249 (lower)			0.68	1.38	56.55	0.69	40.5	0.5%	40.5	0.2	0.5%	0.55	0.5%
Window 249 (upper)			0.68	2.52	56.55	0.69	20.6	1.2%	20.6	0.2	1.2%	0.55	1.2%
Total ADF for room	Bedroom	1.0%									1.7%		1.7%
Window 250 (lower)			0.68	0.26	49.07	0.71	72.2	0.2%	72.2	0.2	0.2%	0.55	0.2%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 250 (upper)			0.68	1.78	49.07	0.71	73.1	3.6%	73.1	0.2	3.6%	0.55	3.6%	
Total ADF for room	Bedroom	1.0%						3.8%			3.8%		3.8%	
Window 251			0.68	1.47	102.72	0.67	75.3	1.3%	75.3	0.2	1.3%	0.55	1.3%	
Window 252 (lower)			0.68	1.38	102.72	0.67	40.3	0.3%	40.3	0.2	0.3%	0.55	0.3%	
Window 252 (upper)			0.68	2.67	102.72	0.67	19.6	0.6%	19.6	0.2	0.6%	0.55	0.6%	
Window 253 (lower)			0.68	0.26	102.72	0.67	72.1	0.1%	72.1	0.2	0.1%	0.55	0.1%	
Window 253 (upper)			0.68	1.78	102.72	0.67	74.1	1.6%	74.1	0.2	1.6%	0.55	1.6%	
Total ADF for room	Living/Dining/Kitchen	2.0%						3.9%			3.9%		3.9%	
Window 254 (lower)			0.68	0.34	55.5	0.7	71.8	0.2%	71.8	0.2	0.2%	0.55	0.2%	
Window 254 (upper)			0.68	2.37	55.5	0.7	73.9	4.2%	73.9	0.2	4.2%	0.55	4.2%	
Total ADF for room	Bedroom	1.0%						4.4%			4.4%		4.4%	
Window 255 (lower)			0.68	0.34	55.5	0.7	72.8	0.2%	72.8	0.2	0.2%	0.55	0.2%	
Window 255 (upper)			0.68	2.37	55.5	0.7	74.8	4.3%	74.8	0.2	4.3%	0.55	4.3%	
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%	
Window 256 (lower)			0.68	0.26	102.72	0.67	74.5	0.1%	74.5	0.2	0.1%	0.55	0.1%	
Window 256 (upper)			0.68	1.78	102.72	0.67	76.3	1.6%	76.3	0.2	1.6%	0.55	1.6%	
Window 257 (lower)			0.68	1.38	102.72	0.67	45.6	0.3%	45.6	0.2	0.3%	0.55	0.3%	
Window 257 (upper)			0.68	2.52	102.72	0.67	28.8	0.9%	28.8	0.2	0.9%	0.55	0.9%	
Window 258			0.68	1.37	102.72	0.67	87.9	1.4%	87.9	0.2	1.4%	0.55	1.4%	
Total ADF for room	Living/Dining/Kitchen	2.0%						4.3%			4.3%		4.3%	
Window 259 (lower)			0.68	0.26	49.07	0.71	87.7	0.3%	87.7	0.2	0.3%	0.55	0.3%	
Window 259 (upper)			0.68	1.69	49.07	0.71	88.0	4.1%	88.0	0.2	4.1%	0.55	4.1%	
Total ADF for room	Bedroom	1.0%						4.4%			4.4%		4.4%	
Window 260 (lower)			0.68	0.34	113.04	0.69	88.1	0.1%	88.1	0.2	0.1%	0.55	0.1%	
Window 260 (upper)			0.68	2.24	113.04	0.69	88.2	2.3%	88.2	0.2	2.3%	0.55	2.3%	
Window 261 (lower)			0.68	0.77	113.04	0.69	37.5	0.1%	37.5	0.2	0.1%	0.55	0.1%	
Window 261 (upper)			0.68	1.41	113.04	0.69	35.4	0.6%	35.4	0.2	0.6%	0.55	0.6%	
Total ADF for room	Living/Dining/Kitchen	2.0%						3.1%			3.1%		3.1%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 262 (lower)			0.68	1.38	56.55	0.69	46.5	0.6%	46.5	0.2	0.6%	0.55	0.6%
Window 262 (upper)			0.68	2.52	56.55	0.69	42.0	2.4%	42.0	0.2	2.4%	0.55	2.4%
Total ADF for room	Bedroom	1.0%						3.0%			3.0%		3.0%
Window 263 (lower)			0.68	0.34	112.2	0.69	62.5	0.1%	62.5	0.2	0.1%	0.55	0.1%
Window 263 (upper)			0.68	2.24	112.2	0.69	62.4	1.6%	62.4	0.2	1.6%	0.55	1.6%
Window 264 (lower)			0.68	0.77	112.2	0.69	28.3	0.1%	28.3	0.2	0.1%	0.55	0.1%
Window 264 (upper)			0.68	1.41	112.2	0.69	30.5	0.5%	30.5	0.2	0.5%	0.55	0.5%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.3%			2.3%		2.3%
Window 265 (lower)			0.68	1.38	57.4	0.69	44.4	0.5%	44.4	0.2	0.5%	0.55	0.5%
Window 265 (upper)			0.68	2.52	57.4	0.69	40.8	2.3%	40.8	0.2	2.3%	0.55	2.3%
Total ADF for room	Bedroom	1.0%						2.8%			2.8%		2.8%
Window 266 (lower)			0.68	0.26	49.07	0.71	81.9	0.2%	81.9	0.2	0.2%	0.55	0.2%
Window 266 (upper)			0.68	1.69	49.07	0.71	82.0	3.9%	82.0	0.2	3.9%	0.55	3.9%
Total ADF for room	Bedroom	1.0%						4.1%			4.1%		4.1%
Window 267			0.68	1.37	102.72	0.67	84.6	1.4%	84.6	0.2	1.4%	0.55	1.4%
Window 268 (lower)			0.68	1.38	102.72	0.67	44.8	0.3%	44.8	0.2	0.3%	0.55	0.3%
Window 268 (upper)			0.68	2.52	102.72	0.67	39.5	1.2%	39.5	0.2	1.2%	0.55	1.2%
Window 269 (lower)			0.68	0.26	102.72	0.67	89.6	0.1%	89.6	0.2	0.1%	0.55	0.1%
Window 269 (upper)			0.68	1.69	102.72	0.67	89.4	1.8%	89.4	0.2	1.8%	0.55	1.8%
Total ADF for room	Living/Dining/Kitchen	2.0%						4.8%			4.8%		4.8%
Window 270 (lower)			0.68	0.34	55.5	0.7	89.7	0.3%	89.7	0.2	0.3%	0.55	0.3%
Window 270 (upper)			0.68	2.24	55.5	0.7	89.5	4.8%	89.5	0.2	4.8%	0.55	4.8%
Total ADF for room	Bedroom	1.0%						5.1%			5.1%		5.1%
<u>Block B - Fifth Floor</u>													
Window 271 (lower)			0.68	0.34	55.5	0.7	89.8	0.3%	89.8	0.2	0.3%	0.55	0.3%
Window 271 (upper)			0.68	2.24	55.5	0.7	89.6	4.8%	89.6	0.2	4.8%	0.55	4.8%
Total ADF for room	Bedroom	1.0%						5.1%			5.1%		5.1%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 272 (lower)			0.68	0.26	102.72	0.67	89.7	0.1%	89.7	0.2	0.1%	0.55	0.1%
Window 272 (upper)			0.68	1.69	102.72	0.67	89.5	1.8%	89.5	0.2	1.8%	0.55	1.8%
Window 273 (lower)			0.68	1.38	102.72	0.67	39.5	0.3%	39.5	0.2	0.3%	0.55	0.3%
Window 273 (upper)			0.68	2.52	102.72	0.67	31.9	1.0%	31.9	0.2	1.0%	0.55	1.0%
Window 274 (lower)			0.68	0.26	102.72	0.67	76.1	0.1%	76.1	0.2	0.1%	0.55	0.1%
Window 274 (upper)			0.68	1.69	102.72	0.67	76.8	1.5%	76.8	0.2	1.5%	0.55	1.5%
Total ADF for room	Living/Dining/Kitchen	2.0%						4.8%			4.8%		4.8%
Window 275 (lower)			0.68	0.26	49.07	0.71	75.8	0.2%	75.8	0.2	0.2%	0.55	0.2%
Window 275 (upper)			0.68	1.69	49.07	0.71	76.5	3.6%	76.5	0.2	3.6%	0.55	3.6%
Total ADF for room	Bedroom	1.0%						3.8%			3.8%		3.8%
Window 276 (lower)			0.68	0.34	113.05	0.69	75.5	0.1%	75.5	0.2	0.1%	0.55	0.1%
Window 276 (upper)			0.68	2.24	113.05	0.69	76.2	2.0%	76.2	0.2	2.0%	0.55	2.0%
Window 277 (lower)			0.68	0.77	113.05	0.69	36.5	0.1%	36.5	0.2	0.1%	0.55	0.1%
Window 277 (upper)			0.68	1.41	113.05	0.69	25.2	0.4%	25.2	0.2	0.4%	0.55	0.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.6%			2.6%		2.6%
Window 278 (lower)			0.68	1.38	56.55	0.69	42.8	0.5%	42.8	0.2	0.5%	0.55	0.5%
Window 278 (upper)			0.68	2.52	56.55	0.69	22.7	1.3%	22.7	0.2	1.3%	0.55	1.3%
Total ADF for room	Bedroom	1.0%						1.8%			1.8%		1.8%
Window 279 (lower)			0.68	0.26	49.07	0.71	75.9	0.2%	75.9	0.2	0.2%	0.55	0.2%
Window 279 (upper)			0.68	1.78	49.07	0.71	76.9	3.8%	76.9	0.2	3.8%	0.55	3.8%
Total ADF for room	Bedroom	1.0%						4.0%			4.0%		4.0%
Window 280			0.68	1.47	102.72	0.67	78.8	1.4%	78.8	0.2	1.4%	0.55	1.4%
Window 281 (lower)			0.68	1.38	102.72	0.67	42.2	0.3%	42.2	0.2	0.3%	0.55	0.3%
Window 281 (upper)			0.68	2.67	102.72	0.67	22.4	0.7%	22.4	0.2	0.7%	0.55	0.7%
Window 282 (lower)			0.68	0.26	102.72	0.67	79.5	0.1%	79.5	0.2	0.1%	0.55	0.1%
Window 282 (upper)			0.68	1.78	102.72	0.67	81.8	1.7%	81.8	0.2	1.7%	0.55	1.7%
Total ADF for room	Living/Dining/Kitchen	2.0%						4.2%			4.2%		4.2%
Window 283 (lower)			0.68	0.34	55.5	0.7	79.4	0.3%	79.4	0.2	0.3%	0.55	0.3%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 283 (upper)			0.68	2.37	55.5	0.7	81.8	4.7%	81.8	0.2	4.7%	0.55	4.7%	
Total ADF for room	Bedroom	1.0%						5.0%			5.0%		5.0%	
Window 284 (lower)			0.68	0.34	55.5	0.7	80.1	0.3%	80.1	0.2	0.3%	0.55	0.3%	
Window 284 (upper)			0.68	2.37	55.5	0.7	82.2	4.7%	82.2	0.2	4.7%	0.55	4.7%	
Total ADF for room	Bedroom	1.0%						5.0%			5.0%		5.0%	
Window 285			0.68	1.37	102.72	0.67	89.2	1.5%	89.2	0.2	1.5%	0.55	1.5%	
Window 285 (lower)			0.68	1.38	102.72	0.67	46.3	0.3%	46.3	0.2	0.3%	0.55	0.3%	
Window 286 (upper)			0.68	2.52	102.72	0.67	30.1	0.9%	30.1	0.2	0.9%	0.55	0.9%	
Window 286 (lower)			0.68	0.26	102.72	0.67	81.1	0.1%	81.1	0.2	0.1%	0.55	0.1%	
Window 287 (upper)			0.68	1.78	102.72	0.67	83.0	1.8%	83.0	0.2	1.8%	0.55	1.8%	
Total ADF for room	Living/Dining/Kitchen	2.0%						4.6%			4.6%		4.6%	
Window 288 (lower)			0.68	0.26	49.07	0.71	89.0	0.3%	89.0	0.2	0.3%	0.55	0.3%	
Window 288 (upper)			0.68	1.69	49.07	0.71	89.2	4.2%	89.2	0.2	4.2%	0.55	4.2%	
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%	
Window 289 (lower)			0.68	0.77	113.04	0.69	37.5	0.1%	37.5	0.2	0.1%	0.55	0.1%	
Window 289 (upper)			0.68	1.41	113.04	0.69	35.4	0.6%	35.4	0.2	0.6%	0.55	0.6%	
Window 290 (lower)			0.68	0.34	113.04	0.69	89.1	0.1%	89.1	0.2	0.1%	0.55	0.1%	
Window 290 (upper)			0.68	2.24	113.04	0.69	89.2	2.3%	89.2	0.2	2.3%	0.55	2.3%	
Total ADF for room	Living/Dining/Kitchen	2.0%						3.1%			3.1%		3.1%	
Window 291 (lower)			0.68	1.38	56.55	0.69	46.5	0.6%	46.5	0.2	0.6%	0.55	0.6%	
Window 291 (upper)			0.68	2.52	56.55	0.69	42.0	2.4%	42.0	0.2	2.4%	0.55	2.4%	
Total ADF for room	Bedroom	1.0%						3.0%			3.0%		3.0%	
Window 292 (lower)			0.68	0.77	112.2	0.69	28.4	0.1%	28.4	0.2	0.1%	0.55	0.1%	
Window 292 (upper)			0.68	1.41	112.2	0.69	28.6	0.5%	28.6	0.2	0.5%	0.55	0.5%	
Window 293 (lower)			0.68	0.34	112.2	0.69	62.8	0.1%	62.8	0.2	0.1%	0.55	0.1%	
Window 293 (upper)			0.68	2.24	112.2	0.69	62.9	1.6%	62.9	0.2	1.6%	0.55	1.6%	
Total ADF for room	Living/Dining/Kitchen	2.0%						2.3%			2.3%		2.3%	
Window 294 (lower)			0.68	1.38	57.4	0.69	44.5	0.6%	44.5	0.2	0.6%	0.55	0.6%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 294 (upper)			0.68	2.52	57.4	0.69	40.9	2.3%	40.9	0.2	2.3%	0.55	2.3%	
Total ADF for room	Bedroom	1.0%						2.9%			2.9%		2.9%	
Window 295 (lower)			0.68	0.26	49.07	0.71	83.0	0.2%	83.0	0.2	0.2%	0.55	0.2%	
Window 295 (upper)			0.68	1.69	49.07	0.71	83.3	3.9%	83.3	0.2	3.9%	0.55	3.9%	
Total ADF for room	Bedroom	1.0%						4.1%			4.1%		4.1%	
Window 296 (lower)			0.68	0.26	102.72	0.67	89.7	0.1%	89.7	0.2	0.1%	0.55	0.1%	
Window 297 (upper)			0.68	1.69	102.72	0.67	89.5	1.8%	89.5	0.2	1.8%	0.55	1.8%	
Window 297 (lower)			0.68	1.38	102.72	0.67	44.8	0.3%	44.8	0.2	0.3%	0.55	0.3%	
Window 298 (upper)			0.68	2.52	102.72	0.67	39.5	1.2%	39.5	0.2	1.2%	0.55	1.2%	
Window 298			0.68	1.37	102.72	0.67	85.7	1.4%	85.7	0.2	1.4%	0.55	1.4%	
Total ADF for room	Living/Dining/Kitchen	2.0%						4.8%			4.8%		4.8%	
Window 299 (lower)			0.68	0.34	55.5	0.7	89.8	0.3%	89.8	0.2	0.3%	0.55	0.3%	
Window 299 (upper)			0.68	2.24	55.5	0.7	89.6	4.8%	89.6	0.2	4.8%	0.55	4.8%	
Total ADF for room	Bedroom	1.0%						5.1%			5.1%		5.1%	
<u>Block B - Sixth Floor</u>														
Window 300 (lower)			0.68	0.34	55.5	0.7	89.7	0.3%	89.7	0.2	0.3%	0.55	0.3%	
Window 300 (upper)			0.68	2.24	55.5	0.7	89.6	4.8%	89.6	0.2	4.8%	0.55	4.8%	
Total ADF for room	Bedroom	1.0%						5.1%			5.1%		5.1%	
Window 301 (lower)			0.68	0.26	102.72	0.67	89.6	0.1%	89.6	0.2	0.1%	0.55	0.1%	
Window 301 (upper)			0.68	1.69	102.72	0.67	89.5	1.8%	89.5	0.2	1.8%	0.55	1.8%	
Window 302 (lower)			0.68	1.38	102.72	0.67	40.5	0.3%	40.5	0.2	0.3%	0.55	0.3%	
Window 302 (upper)			0.68	2.52	102.72	0.67	33.4	1.0%	33.4	0.2	1.0%	0.55	1.0%	
Window 303 (lower)			0.68	0.26	102.72	0.67	78.9	0.1%	78.9	0.2	0.1%	0.55	0.1%	
Window 303 (upper)			0.68	1.69	102.72	0.67	79.6	1.6%	79.6	0.2	1.6%	0.55	1.6%	
Total ADF for room	Living/Dining/Kitchen	2.0%						4.9%			4.9%		4.9%	
Window 304 (lower)			0.68	0.26	49.07	0.71	78.7	0.2%	78.7	0.2	0.2%	0.55	0.2%	
Window 304 (upper)			0.68	1.69	49.07	0.71	79.4	3.7%	79.4	0.2	3.7%	0.55	3.7%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Total ADF for room	Bedroom	1.0%									3.9%		3.9%
Window 305 (lower)			0.68	0.34	113.05	0.69	78.5	0.1%	78.5	0.2	0.1%	0.55	0.1%
Window 305 (upper)			0.68	2.24	113.05	0.69	79.4	2.0%	79.4	0.2	2.0%	0.55	2.0%
Window 306 (lower)			0.68	0.77	113.05	0.69	53.3	0.2%	53.3	0.2	0.2%	0.55	0.2%
Window 306 (upper)			0.68	1.41	113.05	0.69	59.1	0.9%	59.1	0.2	0.9%	0.55	0.9%
Total ADF for room	Living/Dining/Kitchen	2.0%									3.2%		3.2%
Window 307 (lower)			0.68	1.38	56.55	0.69	60.8	0.8%	60.8	0.2	0.8%	0.55	0.8%
Window 307 (upper)			0.68	2.52	56.55	0.69	64.4	3.7%	64.4	0.2	3.7%	0.55	3.7%
Total ADF for room	Bedroom	1.0%									4.5%		4.5%
Window 308 (lower)			0.68	0.26	49.07	0.71	80.1	0.2%	80.1	0.2	0.2%	0.55	0.2%
Window 308 (upper)			0.68	1.78	49.07	0.71	81.3	4.0%	81.3	0.2	4.0%	0.55	4.0%
Total ADF for room	Bedroom	1.0%									4.2%		4.2%
Window 309			0.68	1.47	102.72	0.67	82.5	1.5%	82.5	0.2	1.5%	0.55	1.5%
Window 310 (lower)			0.68	1.38	102.72	0.67	44.1	0.3%	44.1	0.2	0.3%	0.55	0.3%
Window 310 (upper)			0.68	2.67	102.72	0.67	24.6	0.8%	24.6	0.2	0.8%	0.55	0.8%
Window 311 (lower)			0.68	0.26	102.72	0.67	87.2	0.1%	87.2	0.2	0.1%	0.55	0.1%
Window 311 (upper)			0.68	1.78	102.72	0.67	88.9	1.9%	88.9	0.2	1.9%	0.55	1.9%
Total ADF for room	Living/Dining/Kitchen	2.0%									4.6%		4.6%
Window 312 (lower)			0.68	0.34	55.5	0.7	87.4	0.3%	87.4	0.2	0.3%	0.55	0.3%
Window 312 (upper)			0.68	2.37	55.5	0.7	89.1	5.1%	89.1	0.2	5.1%	0.55	5.1%
Total ADF for room	Bedroom	1.0%									5.4%		5.4%
Window 313 (lower)			0.68	0.34	55.5	0.7	87.6	0.3%	87.6	0.2	0.3%	0.55	0.3%
Window 313 (upper)			0.68	2.37	55.5	0.7	89.1	5.1%	89.1	0.2	5.1%	0.55	5.1%
Total ADF for room	Bedroom	1.0%									5.4%		5.4%
Window 314 (lower)			0.68	0.26	102.72	0.67	87.7	0.1%	87.7	0.2	0.1%	0.55	0.1%
Window 314 (upper)			0.68	1.78	102.72	0.67	89.0	1.9%	89.0	0.2	1.9%	0.55	1.9%
Window 315 (lower)			0.68	1.38	102.72	0.67	46.7	0.3%	46.7	0.2	0.3%	0.55	0.3%
Window 315 (upper)			0.68	2.52	102.72	0.67	30.3	0.9%	30.3	0.2	0.9%	0.55	0.9%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees		Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF		
Window 316			0.68	1.37	102.72	0.67	89.4	1.5%	89.4	0.2	1.5%	0.55	1.5%		
Total ADF for room	Living/Dining/Kitchen	2.0%						4.7%			4.7%		4.7%		
Window 317 (lower)			0.68	0.26	49.07	0.71	89.7	0.3%	89.7	0.2	0.3%	0.55	0.3%		
Window 317 (upper)			0.68	1.69	49.07	0.71	89.5	4.2%	89.5	0.2	4.2%	0.55	4.2%		
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%		
Window 318 (lower)			0.68	0.34	113.04	0.69	89.7	0.1%	89.7	0.2	0.1%	0.55	0.1%		
Window 318 (upper)			0.68	2.24	113.04	0.69	89.5	2.3%	89.5	0.2	2.3%	0.55	2.3%		
Window 319 (lower)			0.68	0.77	113.04	0.69	37.5	0.1%	37.5	0.2	0.1%	0.55	0.1%		
Window 319 (upper)			0.68	1.41	113.04	0.69	35.4	0.6%	35.4	0.2	0.6%	0.55	0.6%		
Total ADF for room	Living/Dining/Kitchen	2.0%						3.1%			3.1%		3.1%		
Window 320 (lower)			0.68	1.38	56.55	0.69	46.5	0.6%	46.5	0.2	0.6%	0.55	0.6%		
Window 320 (upper)			0.68	2.52	56.55	0.69	42.0	2.4%	42.0	0.2	2.4%	0.55	2.4%		
Total ADF for room	Bedroom	1.0%						3.0%			3.0%		3.0%		
Window 321 (lower)			0.68	0.34	112.2	0.69	63.7	0.1%	63.7	0.2	0.1%	0.55	0.1%		
Window 321 (upper)			0.68	2.24	112.2	0.69	64.1	1.7%	64.1	0.2	1.7%	0.55	1.7%		
Window 322 (lower)			0.68	0.77	112.2	0.69	28.1	0.1%	28.1	0.2	0.1%	0.55	0.1%		
Window 322 (upper)			0.68	1.41	112.2	0.69	28.2	0.5%	28.2	0.2	0.5%	0.55	0.5%		
Total ADF for room	Living/Dining/Kitchen	2.0%						2.4%			2.4%		2.4%		
Window 323 (lower)			0.68	1.38	57.4	0.69	44.3	0.5%	44.3	0.2	0.5%	0.55	0.5%		
Window 323 (upper)			0.68	2.52	57.4	0.69	40.6	2.3%	40.6	0.2	2.3%	0.55	2.3%		
Total ADF for room	Bedroom	1.0%						2.8%			2.8%		2.8%		
Window 324 (lower)			0.68	0.26	49.07	0.71	84.6	0.2%	84.6	0.2	0.2%	0.55	0.2%		
Window 324 (upper)			0.68	1.69	49.07	0.71	85.0	4.0%	85.0	0.2	4.0%	0.55	4.0%		
Total ADF for room	Bedroom	1.0%						4.2%			4.2%		4.2%		
Window 325			0.68	1.37	102.72	0.67	86.9	1.4%	86.9	0.2	1.4%	0.55	1.4%		
Window 326 (lower)			0.68	1.38	102.72	0.67	44.4	0.3%	44.4	0.2	0.3%	0.55	0.3%		
Window 326 (upper)			0.68	2.52	102.72	0.67	39.3	1.2%	39.3	0.2	1.2%	0.55	1.2%		
Window 327 (lower)			0.68	0.26	102.72	0.67	89.6	0.1%	89.6	0.2	0.1%	0.55	0.1%		

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 327 (upper)			0.68	1.69	102.72	0.67	89.5	1.8%	89.5	0.2	1.8%	0.55	1.8%	
Total ADF for room	Living/Dining/Kitchen	2.0%						4.8%			4.8%		4.8%	
Window 328 (lower)			0.68	0.34	55.5	0.7	89.7	0.3%	89.7	0.2	0.3%	0.55	0.3%	
Window 328 (upper)			0.68	2.24	55.5	0.7	89.6	4.8%	89.6	0.2	4.8%	0.55	4.8%	
Total ADF for room	Bedroom	1.0%						5.1%			5.1%		5.1%	
<u>Block B - Seventh Floor</u>														
Window 329 (lower)			0.68	0.26	49.07	0.71	84.4	0.2%	84.4	0.2	0.2%	0.55	0.2%	
Window 329 (upper)			0.68	1.78	49.07	0.71	85.4	4.2%	85.4	0.2	4.2%	0.55	4.2%	
Total ADF for room	Bedroom	1.0%						4.4%			4.4%		4.4%	
Window 330			0.68	1.47	102.72	0.67	85.9	1.5%	85.9	0.2	1.5%	0.55	1.5%	
Window 331 (lower)			0.68	1.38	102.72	0.67	63.8	0.4%	63.8	0.2	0.4%	0.55	0.4%	
Window 331 (upper)			0.68	2.67	102.72	0.67	67.8	2.2%	67.8	0.2	2.2%	0.55	2.2%	
Window 332 (lower)			0.68	0.26	102.72	0.67	89.5	0.1%	89.5	0.2	0.1%	0.55	0.1%	
Window 332 (upper)			0.68	1.78	102.72	0.67	89.5	1.9%	89.5	0.2	1.9%	0.55	1.9%	
Total ADF for room	Living/Dining/Kitchen	2.0%						6.1%			6.1%		6.1%	
Window 333 (lower)			0.68	0.34	55.5	0.7	89.6	0.3%	89.6	0.2	0.3%	0.55	0.3%	
Window 333 (upper)			0.68	2.37	55.5	0.7	89.6	5.1%	89.6	0.2	5.1%	0.55	5.1%	
Total ADF for room	Bedroom	1.0%						5.4%			5.4%		5.4%	
Window 334 (lower)			0.68	0.34	55.5	0.7	89.6	0.3%	89.6	0.2	0.3%	0.55	0.3%	
Window 334 (upper)			0.68	2.37	55.5	0.7	89.6	5.1%	89.6	0.2	5.1%	0.55	5.1%	
Total ADF for room	Bedroom	1.0%						5.4%			5.4%		5.4%	
Window 335 (lower)			0.68	0.26	102.72	0.67	89.5	0.1%	89.5	0.2	0.1%	0.55	0.1%	
Window 335 (upper)			0.68	1.78	102.72	0.67	89.5	1.9%	89.5	0.2	1.9%	0.55	1.9%	
Window 336 (lower)			0.68	1.38	102.72	0.67	64.9	0.4%	64.9	0.2	0.4%	0.55	0.4%	
Window 336 (upper)			0.68	2.52	102.72	0.67	69.4	2.1%	69.4	0.2	2.1%	0.55	2.1%	
Window 337			0.68	1.37	102.72	0.67	89.4	1.5%	89.4	0.2	1.5%	0.55	1.5%	
Total ADF for room	Living/Dining/Kitchen	2.0%						6.0%			6.0%		6.0%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		θ _{no trees}	Tp _{summer}	ADF	Tp _{winter}	ADF
Window 338 (lower)			0.68	0.26	49.07	0.71	89.6	0.3%	89.6	0.2	0.3%	0.55	0.3%
Window 338 (upper)			0.68	1.69	49.07	0.71	89.5	4.2%	89.5	0.2	4.2%	0.55	4.2%
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%
Window 339 (lower)			0.68	0.34	113.04	0.69	89.7	0.1%	89.7	0.2	0.1%	0.55	0.1%
Window 339 (upper)			0.68	2.24	113.04	0.69	89.5	2.3%	89.5	0.2	2.3%	0.55	2.3%
Window 340 (lower)			0.68	0.77	113.04	0.69	37.8	0.1%	37.8	0.2	0.1%	0.55	0.1%
Window 340 (upper)			0.68	1.41	113.04	0.69	36.2	0.6%	36.2	0.2	0.6%	0.55	0.6%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.1%			3.1%		3.1%
Window 341 (lower)			0.68	1.38	56.55	0.69	46.9	0.6%	46.9	0.2	0.6%	0.55	0.6%
Window 341 (upper)			0.68	2.52	56.55	0.69	42.6	2.4%	42.6	0.2	2.4%	0.55	2.4%
Total ADF for room	Bedroom	1.0%						3.0%			3.0%		3.0%
<u>Proposed Block C</u>													
<u>Block C - Ground Floor</u>													
Window 342 (lower)			0.68	0.29	67.42	0.71	71.8	0.2%	71.8	0.2	0.2%	0.55	0.2%
Window 342 (upper)			0.68	1.69	67.42	0.71	72.5	2.5%	72.5	0.2	2.5%	0.55	2.5%
Total ADF for room	Bedroom	1.0%						2.7%			2.7%		2.7%
Window 343 (lower)			0.68	0.29	43.7	0.71	72.5	0.3%	72.5	0.2	0.3%	0.55	0.3%
Window 343 (upper)			0.68	1.69	43.7	0.71	73.2	3.8%	73.2	0.2	3.8%	0.55	3.8%
Total ADF for room	Bedroom	1.0%						4.1%			4.1%		4.1%
Window 344 (lower)			0.68	0.39	119.83	0.67	51.7	0.1%	51.7	0.2	0.1%	0.55	0.1%
Window 345 (upper)			0.68	2.24	119.83	0.67	52.1	1.2%	52.1	0.2	1.2%	0.55	1.2%
Window 345 (lower)			0.68	1.38	119.83	0.67	44.0	0.3%	44.0	0.2	0.3%	0.55	0.3%
Window 346 (upper)			0.68	2.52	119.83	0.67	32.1	0.8%	32.1	0.2	0.8%	0.55	0.8%
Window 346			0.68	1.41	119.83	0.67	74.2	1.1%	74.2	0.2	1.1%	0.55	1.1%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.5%			3.5%		3.5%
Window 347 (lower)			0.68	0.29	58.44	0.71	50.6	0.1%	50.6	0.2	0.1%	0.55	0.1%
Window 347 (upper)			0.68	1.69	58.44	0.71	51.0	2.0%	51.0	0.2	2.0%	0.55	2.0%
Total ADF for room	Bedroom	1.0%						2.1%			2.1%		2.1%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
<u>Block C - First Floor</u>													
Window 348 (lower)			0.68	0.29	51.56	0.71	53.4	0.2%	53.4	0.2	0.2%	0.55	0.2%
Window 348 (upper)			0.68	1.69	51.56	0.71	53.9	2.4%	53.9	0.2	2.4%	0.55	2.4%
Total ADF for room	Bedroom	1.0%						2.6%			2.6%		2.6%
Window 349 (lower)			0.68	0.39	97.86	0.67	54.6	0.1%	54.6	0.2	0.1%	0.55	0.1%
Window 349 (upper)			0.68	2.24	97.86	0.67	55.1	1.5%	55.1	0.2	1.5%	0.55	1.5%
Window 350 (lower)			0.68	1.38	97.86	0.67	37.9	0.3%	37.9	0.2	0.3%	0.55	0.3%
Window 350 (upper)			0.68	2.52	97.86	0.67	21.3	0.7%	21.3	0.2	0.7%	0.55	0.7%
Window 351			0.68	1.41	97.86	0.67	68.1	1.2%	68.1	0.2	1.2%	0.55	1.2%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.8%			3.8%		3.8%
Window 352 (lower)			0.68	0.39	62.34	0.71	65.8	0.2%	65.8	0.2	0.2%	0.55	0.2%
Window 352 (upper)			0.68	2.24	62.34	0.71	66.4	3.3%	66.4	0.2	3.3%	0.55	3.3%
Total ADF for room	Bedroom	1.0%						3.5%			3.5%		3.5%
Window 353 (lower)			0.68	1.38	56.59	0.69	42.6	0.5%	42.6	0.2	0.5%	0.55	0.5%
Window 353 (upper)			0.68	2.52	56.59	0.69	25.8	1.5%	25.8	0.2	1.5%	0.55	1.5%
Total ADF for room	Bedroom	1.0%						2.0%			2.0%		2.0%
Window 354 (lower)			0.68	0.77	113.05	0.69	36.9	0.1%	36.9	0.2	0.1%	0.55	0.1%
Window 354 (upper)			0.68	1.41	113.05	0.69	24.7	0.4%	24.7	0.2	0.4%	0.55	0.4%
Window 355 (lower)			0.68	0.39	113.05	0.69	69.8	0.1%	69.8	0.2	0.1%	0.55	0.1%
Window 355 (upper)			0.68	2.24	113.05	0.69	70.4	1.8%	70.4	0.2	1.8%	0.55	1.8%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.4%			2.4%		2.4%
Window 356 (lower)			0.68	0.39	62.37	0.71	71.2	0.2%	71.2	0.2	0.2%	0.55	0.2%
Window 356 (upper)			0.68	2.24	62.37	0.71	71.8	3.5%	71.8	0.2	3.5%	0.55	3.5%
Total ADF for room	Bedroom	1.0%						3.7%			3.7%		3.7%
Window 357			0.68	1.41	97.84	0.66	73.0	1.3%	73.0	0.2	1.3%	0.55	1.3%
Window 358 (lower)			0.68	1.38	97.84	0.66	37.6	0.3%	37.6	0.2	0.3%	0.55	0.3%
Window 358 (upper)			0.68	2.52	97.84	0.66	26.8	0.8%	26.8	0.2	0.8%	0.55	0.8%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 359 (lower)			0.68	0.54	97.84	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 359 (upper)			0.68	3.08	97.84	0.66	89.6	3.4%	89.6	0.2	3.4%	0.55	3.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.0%			6.0%		6.0%
Window 360 (lower)			0.68	0.46	50.11	0.7	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%
Window 360 (upper)			0.68	2.66	50.11	0.7	89.6	6.3%	89.6	0.2	6.3%	0.55	6.3%
Total ADF for room	Bedroom	1.0%						6.7%			6.7%		6.7%
Window 361 (lower)			0.68	0.46	50.11	0.7	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%
Window 361 (upper)			0.68	2.66	50.11	0.7	89.6	6.3%	89.6	0.2	6.3%	0.55	6.3%
Total ADF for room	Bedroom	1.0%						6.7%			6.7%		6.7%
Window 362 (lower)			0.68	0.54	97.84	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 362 (upper)			0.68	3.08	97.84	0.66	89.6	3.4%	89.6	0.2	3.4%	0.55	3.4%
Window 363 (lower)			0.68	1.38	97.84	0.66	39.1	0.3%	39.1	0.2	0.3%	0.55	0.3%
Window 363 (upper)			0.68	2.52	97.84	0.66	29.0	0.9%	29.0	0.2	0.9%	0.55	0.9%
Window 364			0.68	1.41	97.84	0.66	77.2	1.3%	77.2	0.2	1.3%	0.55	1.3%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.1%			6.1%		6.1%
Window 365 (lower)			0.68	0.39	62.37	0.71	73.7	0.3%	73.7	0.2	0.3%	0.55	0.3%
Window 365 (upper)			0.68	2.24	62.37	0.71	74.5	3.7%	74.5	0.2	3.7%	0.55	3.7%
Total ADF for room	Bedroom	1.0%						4.0%			4.0%		4.0%
Window 366 (lower)			0.68	1.38	57.4	0.69	40.1	0.5%	40.1	0.2	0.5%	0.55	0.5%
Window 366 (upper)			0.68	2.52	57.4	0.69	29.2	1.6%	29.2	0.2	1.6%	0.55	1.6%
Total ADF for room	Bedroom	1.0%						2.1%			2.1%		2.1%
Window 367 (lower)			0.68	0.77	112.2	0.69	31.4	0.1%	31.4	0.2	0.1%	0.55	0.1%
Window 367 (upper)			0.68	1.41	112.2	0.69	28.6	0.5%	28.6	0.2	0.5%	0.55	0.5%
Window 368 (lower)			0.68	0.39	112.2	0.69	56.4	0.1%	56.4	0.2	0.1%	0.55	0.1%
Window 368 (upper)			0.68	2.24	112.2	0.69	57.1	1.5%	57.1	0.2	1.5%	0.55	1.5%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.2%			2.2%		2.2%
Window 369 (lower)			0.68	1.38	56.55	0.69	40.3	0.5%	40.3	0.2	0.5%	0.55	0.5%
Window 369 (upper)			0.68	2.52	56.55	0.69	28.3	1.6%	28.3	0.2	1.6%	0.55	1.6%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Total ADF for room	Bedroom	1.0%									2.1%		2.1%
Window 370 (lower)			0.68	0.77	113.05	0.69	38.3	0.1%	38.3	0.2	0.1%	0.55	0.1%
Window 370 (upper)			0.68	1.41	113.05	0.69	31.9	0.5%	31.9	0.2	0.5%	0.55	0.5%
Window 371 (lower)			0.68	0.39	113.05	0.69	75.2	0.1%	75.2	0.2	0.1%	0.55	0.1%
Window 371 (upper)			0.68	2.24	113.05	0.69	76.0	1.9%	76.0	0.2	1.9%	0.55	1.9%
Total ADF for room	Living/Dining/Kitchen	2.0%									2.6%		2.6%
Window 372 (lower)			0.68	0.39	62.36	0.71	75.8	0.3%	75.8	0.2	0.3%	0.55	0.3%
Window 372 (upper)			0.68	2.24	62.36	0.71	76.5	3.8%	76.5	0.2	3.8%	0.55	3.8%
Total ADF for room	Bedroom	1.0%									4.1%		4.1%
Window 373			0.68	1.41	97.85	0.67	77.4	1.4%	77.4	0.2	1.4%	0.55	1.4%
Window 374 (lower)			0.68	1.38	97.85	0.67	45.3	0.3%	45.3	0.2	0.3%	0.55	0.3%
Window 374 (upper)			0.68	2.52	97.85	0.67	31.6	1.0%	31.6	0.2	1.0%	0.55	1.0%
Window 375 (lower)			0.68	0.39	97.85	0.67	53.8	0.1%	53.8	0.2	0.1%	0.55	0.1%
Window 375 (upper)			0.68	2.24	97.85	0.67	54.2	1.5%	54.2	0.2	1.5%	0.55	1.5%
Total ADF for room	Living/Dining/Kitchen	2.0%									4.3%		4.3%
Window 376 (lower)			0.68	0.29	51.56	0.71	52.8	0.2%	52.8	0.2	0.2%	0.55	0.2%
Window 376 (upper)			0.68	1.69	51.56	0.71	53.2	2.4%	53.2	0.2	2.4%	0.55	2.4%
Total ADF for room	Bedroom	1.0%									2.6%		2.6%
<u>Block C - Second Floor</u>													
Window 377 (lower)			0.68	0.29	51.56	0.71	55.9	0.2%	55.9	0.2	0.2%	0.55	0.2%
Window 377 (upper)			0.68	1.69	51.56	0.71	56.6	2.5%	56.6	0.2	2.5%	0.55	2.5%
Total ADF for room	Bedroom	1.0%									2.7%		2.7%
Window 378 (lower)			0.68	0.39	97.86	0.67	57.3	0.1%	57.3	0.2	0.1%	0.55	0.1%
Window 378 (upper)			0.68	2.24	97.86	0.67	58.0	1.6%	58.0	0.2	1.6%	0.55	1.6%
Window 379 (lower)			0.68	1.38	97.86	0.67	40.2	0.3%	40.2	0.2	0.3%	0.55	0.3%
Window 379 (upper)			0.68	2.52	97.86	0.67	24.4	0.8%	24.4	0.2	0.8%	0.55	0.8%
Window 380			0.68	1.41	97.86	0.67	71.1	1.3%	71.1	0.2	1.3%	0.55	1.3%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Total ADF for room	Living/Dining/Kitchen	2.0%									4.1%		4.1%	
Window 381 (lower)			0.68	0.39	62.34	0.71	68.7	0.2%	68.7	0.2	0.2%	0.55	0.2%	
Window 381 (upper)			0.68	2.24	62.34	0.71	69.4	3.4%	69.4	0.2	3.4%	0.55	3.4%	
Total ADF for room	Bedroom	1.0%									3.6%		3.6%	
Window 382 (lower)			0.68	1.38	56.59	0.69	45.0	0.6%	45.0	0.2	0.6%	0.55	0.6%	
Window 382 (upper)			0.68	2.52	56.59	0.69	29.3	1.7%	29.3	0.2	1.7%	0.55	1.7%	
Total ADF for room	Bedroom	1.0%									2.3%		2.3%	
Window 383 (lower)			0.68	0.77	113.05	0.69	38.4	0.1%	38.4	0.2	0.1%	0.55	0.1%	
Window 383 (upper)			0.68	1.41	113.05	0.69	26.7	0.4%	26.7	0.2	0.4%	0.55	0.4%	
Window 384 (lower)			0.68	0.39	113.05	0.69	72.6	0.1%	72.6	0.2	0.1%	0.55	0.1%	
Window 384 (upper)			0.68	2.24	113.05	0.69	73.2	1.9%	73.2	0.2	1.9%	0.55	1.9%	
Total ADF for room	Living/Dining/Kitchen	2.0%									2.5%		2.5%	
Window 385 (lower)			0.68	0.39	62.37	0.71	73.8	0.3%	73.8	0.2	0.3%	0.55	0.3%	
Window 385 (upper)			0.68	2.24	62.37	0.71	74.4	3.7%	74.4	0.2	3.7%	0.55	3.7%	
Total ADF for room	Bedroom	1.0%									4.0%		4.0%	
Window 386			0.68	1.41	97.84	0.66	75.5	1.3%	75.5	0.2	1.3%	0.55	1.3%	
Window 387 (lower)			0.68	1.38	97.84	0.66	38.8	0.3%	38.8	0.2	0.3%	0.55	0.3%	
Window 387 (upper)			0.68	2.52	97.84	0.66	28.3	0.9%	28.3	0.2	0.9%	0.55	0.9%	
Window 388 (lower)			0.68	0.54	97.84	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%	
Window 388 (upper)			0.68	3.08	97.84	0.66	89.6	3.4%	89.6	0.2	3.4%	0.55	3.4%	
Total ADF for room	Living/Dining/Kitchen	2.0%									6.1%		6.1%	
Window 389 (lower)			0.68	0.46	50.11	0.7	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%	
Window 389 (upper)			0.68	2.66	50.11	0.7	89.6	6.3%	89.6	0.2	6.3%	0.55	6.3%	
Total ADF for room	Bedroom	1.0%									6.7%		6.7%	
Window 390 (lower)			0.68	0.46	50.11	0.7	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%	
Window 390 (upper)			0.68	2.66	50.11	0.7	89.6	6.3%	89.6	0.2	6.3%	0.55	6.3%	
Total ADF for room	Bedroom	1.0%									6.7%		6.7%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 391 (lower)			0.68	0.54	97.84	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 391 (upper)			0.68	3.08	97.84	0.66	89.6	3.4%	89.6	0.2	3.4%	0.55	3.4%
Window 392 (lower)			0.68	1.38	97.84	0.66	40.4	0.3%	40.4	0.2	0.3%	0.55	0.3%
Window 392 (upper)			0.68	2.52	97.84	0.66	30.5	0.9%	30.5	0.2	0.9%	0.55	0.9%
Window 393			0.68	1.41	97.84	0.66	79.9	1.4%	79.9	0.2	1.4%	0.55	1.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.2%			6.2%		6.2%
Window 394 (lower)			0.68	0.39	62.37	0.71	76.8	0.3%	76.8	0.2	0.3%	0.55	0.3%
Window 394 (upper)			0.68	2.24	62.37	0.71	77.3	3.8%	77.3	0.2	3.8%	0.55	3.8%
Total ADF for room	Bedroom	1.0%						4.1%			4.1%		4.1%
Window 395 (lower)			0.68	1.38	57.4	0.69	41.6	0.5%	41.6	0.2	0.5%	0.55	0.5%
Window 395 (upper)			0.68	2.52	57.4	0.69	31.5	1.8%	31.5	0.2	1.8%	0.55	1.8%
Total ADF for room	Bedroom	1.0%						2.3%			2.3%		2.3%
Window 396 (lower)			0.68	0.77	112.2	0.69	31.6	0.1%	31.6	0.2	0.1%	0.55	0.1%
Window 396 (upper)			0.68	1.41	112.2	0.69	28.8	0.5%	28.8	0.2	0.5%	0.55	0.5%
Window 397 (lower)			0.68	0.39	112.2	0.69	58.7	0.1%	58.7	0.2	0.1%	0.55	0.1%
Window 397 (upper)			0.68	2.24	112.2	0.69	59.1	1.5%	59.1	0.2	1.5%	0.55	1.5%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.2%			2.2%		2.2%
Window 398 (lower)			0.68	1.38	56.55	0.69	48.2	0.6%	48.2	0.2	0.6%	0.55	0.6%
Window 398 (upper)			0.68	2.52	56.55	0.69	35.9	2.1%	35.9	0.2	2.1%	0.55	2.1%
Total ADF for room	Bedroom	1.0%						2.7%			2.7%		2.7%
Window 399 (lower)			0.68	0.77	113.05	0.69	43.4	0.2%	43.4	0.2	0.2%	0.55	0.2%
Window 399 (upper)			0.68	1.41	113.05	0.69	35.6	0.6%	35.6	0.2	0.6%	0.55	0.6%
Window 400 (lower)			0.68	0.39	113.05	0.69	78.6	0.1%	78.6	0.2	0.1%	0.55	0.1%
Window 400 (upper)			0.68	2.24	113.05	0.69	79.4	2.0%	79.4	0.2	2.0%	0.55	2.0%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.9%			2.9%		2.9%
Window 401 (lower)			0.68	0.39	62.36	0.71	79.1	0.3%	79.1	0.2	0.3%	0.55	0.3%
Window 401 (upper)			0.68	2.24	62.36	0.71	79.8	3.9%	79.8	0.2	3.9%	0.55	3.9%
Total ADF for room	Bedroom	1.0%						4.2%			4.2%		4.2%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 402			0.68	1.41	97.85	0.67	80.7	1.4%	80.7	0.2	1.4%	0.55	1.4%
Window 403 (lower)			0.68	1.38	97.85	0.67	47.0	0.3%	47.0	0.2	0.3%	0.55	0.3%
Window 403 (upper)			0.68	2.52	97.85	0.67	33.6	1.1%	33.6	0.2	1.1%	0.55	1.1%
Window 404 (lower)			0.68	0.39	97.85	0.67	56.2	0.1%	56.2	0.2	0.1%	0.55	0.1%
Window 404 (upper)			0.68	2.24	97.85	0.67	56.8	1.6%	56.8	0.2	1.6%	0.55	1.6%
Total ADF for room	Living/Dining/Kitchen	2.0%						4.5%			4.5%		4.5%
Window 405 (lower)			0.68	0.29	51.56	0.71	55.3	0.2%	55.3	0.2	0.2%	0.55	0.2%
Window 405 (upper)			0.68	1.69	51.56	0.71	55.9	2.5%	55.9	0.2	2.5%	0.55	2.5%
Total ADF for room	Bedroom	1.0%						2.7%			2.7%		2.7%
Block C - Third Floor													
Window 406 (lower)			0.68	0.29	51.56	0.71	59.0	0.2%	59.0	0.2	0.2%	0.55	0.2%
Window 406 (upper)			0.68	1.69	51.56	0.71	59.8	2.7%	59.8	0.2	2.7%	0.55	2.7%
Total ADF for room	Bedroom	1.0%						2.9%			2.9%		2.9%
Window 407 (lower)			0.68	0.39	97.86	0.67	60.5	0.1%	60.5	0.2	0.1%	0.55	0.1%
Window 407 (upper)			0.68	2.24	97.86	0.67	61.3	1.7%	61.3	0.2	1.7%	0.55	1.7%
Window 408 (lower)			0.68	1.38	97.86	0.67	42.5	0.3%	42.5	0.2	0.3%	0.55	0.3%
Window 408 (upper)			0.68	2.52	97.86	0.67	27.3	0.9%	27.3	0.2	0.9%	0.55	0.9%
Window 409			0.68	1.41	97.86	0.67	74.4	1.3%	74.4	0.2	1.3%	0.55	1.3%
Total ADF for room	Living/Dining/Kitchen	2.0%						4.3%			4.3%		4.3%
Window 410 (lower)			0.68	0.39	62.34	0.71	72.0	0.2%	72.0	0.2	0.2%	0.55	0.2%
Window 410 (upper)			0.68	2.24	62.34	0.71	72.8	3.6%	72.8	0.2	3.6%	0.55	3.6%
Total ADF for room	Bedroom	1.0%						3.8%			3.8%		3.8%
Window 411 (lower)			0.68	1.38	56.59	0.69	47.6	0.6%	47.6	0.2	0.6%	0.55	0.6%
Window 411 (upper)			0.68	2.52	56.59	0.69	32.5	1.9%	32.5	0.2	1.9%	0.55	1.9%
Total ADF for room	Bedroom	1.0%						2.5%			2.5%		2.5%
Window 412 (lower)			0.68	0.77	113.05	0.69	39.9	0.1%	39.9	0.2	0.1%	0.55	0.1%
Window 412 (upper)			0.68	1.41	113.05	0.69	28.5	0.5%	28.5	0.2	0.5%	0.55	0.5%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 413 (lower)			0.68	0.39	113.05	0.69	75.5	0.1%	75.5	0.2	0.1%	0.55	0.1%
Window 413 (upper)			0.68	2.24	113.05	0.69	76.1	1.9%	76.1	0.2	1.9%	0.55	1.9%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.6%			2.6%		2.6%
Window 414 (lower)			0.68	0.39	62.37	0.71	76.5	0.3%	76.5	0.2	0.3%	0.55	0.3%
Window 414 (upper)			0.68	2.24	62.37	0.71	77.2	3.8%	77.2	0.2	3.8%	0.55	3.8%
Total ADF for room	Bedroom	1.0%						4.1%			4.1%		4.1%
Window 415			0.68	1.41	97.84	0.66	78.1	1.4%	78.1	0.2	1.4%	0.55	1.4%
Window 416 (lower)			0.68	1.38	97.84	0.66	39.9	0.3%	39.9	0.2	0.3%	0.55	0.3%
Window 416 (upper)			0.68	2.52	97.84	0.66	29.8	0.9%	29.8	0.2	0.9%	0.55	0.9%
Window 417 (lower)			0.68	0.54	97.84	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 417 (upper)			0.68	3.08	97.84	0.66	89.6	3.4%	89.6	0.2	3.4%	0.55	3.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.2%			6.2%		6.2%
Window 418 (lower)			0.68	0.46	50.11	0.7	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%
Window 418 (upper)			0.68	2.66	50.11	0.7	89.6	6.3%	89.6	0.2	6.3%	0.55	6.3%
Total ADF for room	Bedroom	1.0%						6.7%			6.7%		6.7%
Window 419 (lower)			0.68	0.46	50.11	0.7	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%
Window 419 (upper)			0.68	2.66	50.11	0.7	89.6	6.3%	89.6	0.2	6.3%	0.55	6.3%
Total ADF for room	Bedroom	1.0%						6.7%			6.7%		6.7%
Window 420 (lower)			0.68	0.54	97.84	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 420 (upper)			0.68	3.08	97.84	0.66	89.6	3.4%	89.6	0.2	3.4%	0.55	3.4%
Window 421 (lower)			0.68	1.38	97.84	0.66	41.5	0.3%	41.5	0.2	0.3%	0.55	0.3%
Window 421 (upper)			0.68	2.52	97.84	0.66	32.0	1.0%	32.0	0.2	1.0%	0.55	1.0%
Window 422			0.68	1.41	97.84	0.66	82.7	1.4%	82.7	0.2	1.4%	0.55	1.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.3%			6.3%		6.3%
Window 423 (lower)			0.68	0.39	62.37	0.71	79.7	0.3%	79.7	0.2	0.3%	0.55	0.3%
Window 423 (upper)			0.68	2.24	62.37	0.71	80.4	4.0%	80.4	0.2	4.0%	0.55	4.0%
Total ADF for room	Bedroom	1.0%						4.3%			4.3%		4.3%
Window 424 (lower)			0.68	1.38	57.4	0.69	43.2	0.5%	43.2	0.2	0.5%	0.55	0.5%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 424 (upper)			0.68	2.52	57.4	0.69	33.7	1.9%	33.7	0.2	1.9%	0.55	1.9%	
Total ADF for room	Bedroom	1.0%						2.4%			2.4%		2.4%	
Window 425 (lower)			0.68	0.77	112.2	0.69	31.6	0.1%	31.6	0.2	0.1%	0.55	0.1%	
Window 425 (upper)			0.68	1.41	112.2	0.69	29.0	0.5%	29.0	0.2	0.5%	0.55	0.5%	
Window 426 (lower)			0.68	0.39	112.2	0.69	61.0	0.1%	61.0	0.2	0.1%	0.55	0.1%	
Window 426 (upper)			0.68	2.24	112.2	0.69	61.5	1.6%	61.5	0.2	1.6%	0.55	1.6%	
Total ADF for room	Living/Dining/Kitchen	2.0%						2.3%			2.3%		2.3%	
Window 427 (lower)			0.68	1.38	56.55	0.69	50.2	0.6%	50.2	0.2	0.6%	0.55	0.6%	
Window 427 (upper)			0.68	2.52	56.55	0.69	38.5	2.2%	38.5	0.2	2.2%	0.55	2.2%	
Total ADF for room	Bedroom	1.0%						2.8%			2.8%		2.8%	
Window 428 (lower)			0.68	0.77	113.05	0.69	43.8	0.2%	43.8	0.2	0.2%	0.55	0.2%	
Window 428 (upper)			0.68	1.41	113.05	0.69	36.2	0.6%	36.2	0.2	0.6%	0.55	0.6%	
Window 429 (lower)			0.68	0.39	113.05	0.69	82.0	0.1%	82.0	0.2	0.1%	0.55	0.1%	
Window 429 (upper)			0.68	2.24	113.05	0.69	82.8	2.1%	82.8	0.2	2.1%	0.55	2.1%	
Total ADF for room	Living/Dining/Kitchen	2.0%						3.0%			3.0%		3.0%	
Window 430 (lower)			0.68	0.39	62.36	0.71	82.4	0.3%	82.4	0.2	0.3%	0.55	0.3%	
Window 430 (upper)			0.68	2.24	62.36	0.71	83.1	4.1%	83.1	0.2	4.1%	0.55	4.1%	
Total ADF for room	Bedroom	1.0%						4.4%			4.4%		4.4%	
Window 431			0.68	1.41	97.85	0.67	83.6	1.5%	83.6	0.2	1.5%	0.55	1.5%	
Window 432 (lower)			0.68	1.38	97.85	0.67	48.6	0.3%	48.6	0.2	0.3%	0.55	0.3%	
Window 432 (upper)			0.68	2.52	97.85	0.67	35.2	1.1%	35.2	0.2	1.1%	0.55	1.1%	
Window 433 (lower)			0.68	0.39	97.85	0.67	59.1	0.1%	59.1	0.2	0.1%	0.55	0.1%	
Window 433 (upper)			0.68	2.24	97.85	0.67	59.8	1.7%	59.8	0.2	1.7%	0.55	1.7%	
Total ADF for room	Living/Dining/Kitchen	2.0%						4.7%			4.7%		4.7%	
Window 434 (lower)			0.68	0.29	51.56	0.71	58.2	0.2%	58.2	0.2	0.2%	0.55	0.2%	
Window 434 (upper)			0.68	1.69	51.56	0.71	59.0	2.7%	59.0	0.2	2.7%	0.55	2.7%	
Total ADF for room	Bedroom	1.0%						2.9%			2.9%		2.9%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
<u>Block C - Fourth Floor</u>													
Window 435 (lower)			0.68	0.29	51.56	0.71	62.8	0.2%	62.8	0.2	0.2%	0.55	0.2%
Window 435 (upper)			0.68	1.69	51.56	0.71	63.9	2.9%	63.9	0.2	2.9%	0.55	2.9%
Total ADF for room	Bedroom	1.0%						3.1%			3.1%		3.1%
Window 436 (lower)			0.68	0.39	97.86	0.67	64.3	0.1%	64.3	0.2	0.1%	0.55	0.1%
Window 436 (upper)			0.68	2.24	97.86	0.67	65.5	1.8%	65.5	0.2	1.8%	0.55	1.8%
Window 437 (lower)			0.68	1.38	97.86	0.67	44.7	0.3%	44.7	0.2	0.3%	0.55	0.3%
Window 437 (upper)			0.68	2.52	97.86	0.67	30.2	1.0%	30.2	0.2	1.0%	0.55	1.0%
Window 438			0.68	1.41	97.86	0.67	77.9	1.4%	77.9	0.2	1.4%	0.55	1.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						4.6%			4.6%		4.6%
Window 439 (lower)			0.68	0.39	62.34	0.71	75.7	0.3%	75.7	0.2	0.3%	0.55	0.3%
Window 439 (upper)			0.68	2.24	62.34	0.71	76.6	3.8%	76.6	0.2	3.8%	0.55	3.8%
Total ADF for room	Bedroom	1.0%						4.1%			4.1%		4.1%
Window 440 (lower)			0.68	1.38	56.59	0.69	50.0	0.6%	50.0	0.2	0.6%	0.55	0.6%
Window 440 (upper)			0.68	2.52	56.59	0.69	35.6	2.0%	35.6	0.2	2.0%	0.55	2.0%
Total ADF for room	Bedroom	1.0%						2.6%			2.6%		2.6%
Window 441 (lower)			0.68	0.77	113.05	0.69	41.3	0.1%	41.3	0.2	0.1%	0.55	0.1%
Window 441 (upper)			0.68	1.41	113.05	0.69	30.4	0.5%	30.4	0.2	0.5%	0.55	0.5%
Window 442 (lower)			0.68	0.39	113.05	0.69	78.5	0.1%	78.5	0.2	0.1%	0.55	0.1%
Window 442 (upper)			0.68	2.24	113.05	0.69	79.2	2.0%	79.2	0.2	2.0%	0.55	2.0%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.7%			2.7%		2.7%
Window 443 (lower)			0.68	0.39	62.37	0.71	79.3	0.3%	79.3	0.2	0.3%	0.55	0.3%
Window 443 (upper)			0.68	2.24	62.37	0.71	80.0	3.9%	80.0	0.2	3.9%	0.55	3.9%
Total ADF for room	Bedroom	1.0%						4.2%			4.2%		4.2%
Window 444			0.68	1.41	97.84	0.66	80.8	1.4%	80.8	0.2	1.4%	0.55	1.4%
Window 445 (lower)			0.68	1.38	97.84	0.66	41.0	0.3%	41.0	0.2	0.3%	0.55	0.3%
Window 445 (upper)			0.68	2.52	97.84	0.66	31.1	1.0%	31.1	0.2	1.0%	0.55	1.0%
Window 446 (lower)			0.68	0.54	97.84	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 446 (upper)			0.68	3.08	97.84	0.66	89.6	3.4%	89.6	0.2	3.4%	0.55	3.4%	
Total ADF for room	Living/Dining/Kitchen	2.0%						6.3%			6.3%		6.3%	
Window 447 (lower)			0.68	0.46	50.11	0.7	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%	
Window 447 (upper)			0.68	2.66	50.11	0.7	89.6	6.3%	89.6	0.2	6.3%	0.55	6.3%	
Total ADF for room	Bedroom	1.0%						6.7%			6.7%		6.7%	
Window 448 (lower)			0.68	0.46	50.11	0.7	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%	
Window 448 (upper)			0.68	2.66	50.11	0.7	89.6	6.3%	89.6	0.2	6.3%	0.55	6.3%	
Total ADF for room	Bedroom	1.0%						6.7%			6.7%		6.7%	
Window 449 (lower)			0.68	0.54	97.84	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%	
Window 449 (upper)			0.68	3.08	97.84	0.66	89.6	3.4%	89.6	0.2	3.4%	0.55	3.4%	
Window 450 (lower)			0.68	1.38	97.84	0.66	42.6	0.3%	42.6	0.2	0.3%	0.55	0.3%	
Window 450 (upper)			0.68	2.52	97.84	0.66	33.2	1.0%	33.2	0.2	1.0%	0.55	1.0%	
Window 451			0.68	1.41	97.84	0.66	85.6	1.5%	85.6	0.2	1.5%	0.55	1.5%	
Total ADF for room	Living/Dining/Kitchen	2.0%						6.4%			6.4%		6.4%	
Window 452 (lower)			0.68	0.39	62.37	0.71	83.1	0.3%	83.1	0.2	0.3%	0.55	0.3%	
Window 452 (upper)			0.68	2.24	62.37	0.71	83.8	4.1%	83.8	0.2	4.1%	0.55	4.1%	
Total ADF for room	Bedroom	1.0%						4.4%			4.4%		4.4%	
Window 453 (lower)			0.68	1.38	57.4	0.69	44.5	0.6%	44.5	0.2	0.6%	0.55	0.6%	
Window 453 (upper)			0.68	2.52	57.4	0.69	35.3	2.0%	35.3	0.2	2.0%	0.55	2.0%	
Total ADF for room	Bedroom	1.0%						2.6%			2.6%		2.6%	
Window 454 (lower)			0.68	0.77	112.2	0.69	31.6	0.1%	31.6	0.2	0.1%	0.55	0.1%	
Window 454 (upper)			0.68	1.41	112.2	0.69	29.1	0.5%	29.1	0.2	0.5%	0.55	0.5%	
Window 455 (lower)			0.68	0.39	112.2	0.69	63.9	0.1%	63.9	0.2	0.1%	0.55	0.1%	
Window 455 (upper)			0.68	2.24	112.2	0.69	64.7	1.7%	64.7	0.2	1.7%	0.55	1.7%	
Total ADF for room	Living/Dining/Kitchen	2.0%						2.4%			2.4%		2.4%	
Window 456 (lower)			0.68	1.38	56.55	0.69	52.1	0.7%	52.1	0.2	0.7%	0.55	0.7%	
Window 456 (upper)			0.68	2.52	56.55	0.69	40.9	2.3%	40.9	0.2	2.3%	0.55	2.3%	
Total ADF for room	Bedroom	1.0%						3.0%			3.0%		3.0%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 457 (lower)			0.68	0.77	113.05	0.69	43.9	0.2%	43.9	0.2	0.2%	0.55	0.2%
Window 457 (upper)			0.68	1.41	113.05	0.69	36.7	0.6%	36.7	0.2	0.6%	0.55	0.6%
Window 458 (lower)			0.68	0.39	113.05	0.69	85.3	0.2%	85.3	0.2	0.2%	0.55	0.2%
Window 458 (upper)			0.68	2.24	113.05	0.69	85.9	2.2%	85.9	0.2	2.2%	0.55	2.2%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.2%			3.2%		3.2%
Window 459 (lower)			0.68	0.39	62.36	0.71	85.5	0.3%	85.5	0.2	0.3%	0.55	0.3%
Window 459 (upper)			0.68	2.24	62.36	0.71	86.2	4.2%	86.2	0.2	4.2%	0.55	4.2%
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%
Window 460			0.68	1.41	97.85	0.67	86.5	1.5%	86.5	0.2	1.5%	0.55	1.5%
Window 461 (lower)			0.68	1.38	97.85	0.67	49.8	0.3%	49.8	0.2	0.3%	0.55	0.3%
Window 461 (upper)			0.68	2.52	97.85	0.67	36.6	1.2%	36.6	0.2	1.2%	0.55	1.2%
Window 462 (lower)			0.68	0.39	97.85	0.67	62.7	0.1%	62.7	0.2	0.1%	0.55	0.1%
Window 462 (upper)			0.68	2.24	97.85	0.67	63.8	1.8%	63.8	0.2	1.8%	0.55	1.8%
Total ADF for room	Living/Dining/Kitchen	2.0%						4.9%			4.9%		4.9%
Window 463 (lower)			0.68	0.29	51.56	0.71	62.0	0.2%	62.0	0.2	0.2%	0.55	0.2%
Window 463 (upper)			0.68	1.69	51.56	0.71	63.1	2.8%	63.1	0.2	2.8%	0.55	2.8%
Total ADF for room	Bedroom	1.0%						3.0%			3.0%		3.0%
<u>Block C - Fifth Floor</u>													
Window 464 (lower)			0.68	0.29	51.56	0.71	67.4	0.2%	67.4	0.2	0.2%	0.55	0.2%
Window 464 (upper)			0.68	1.69	51.56	0.71	69.0	3.1%	69.0	0.2	3.1%	0.55	3.1%
Total ADF for room	Bedroom	1.0%						3.3%			3.3%		3.3%
Window 465 (lower)			0.68	0.39	97.86	0.67	68.9	0.1%	68.9	0.2	0.1%	0.55	0.1%
Window 465 (upper)			0.68	2.24	97.86	0.67	70.3	2.0%	70.3	0.2	2.0%	0.55	2.0%
Window 466 (lower)			0.68	1.38	97.86	0.67	53.1	0.4%	53.1	0.2	0.4%	0.55	0.4%
Window 466 (upper)			0.68	2.52	97.86	0.67	41.8	1.3%	41.8	0.2	1.3%	0.55	1.3%
Window 467			0.68	1.41	97.86	0.67	81.6	1.4%	81.6	0.2	1.4%	0.55	1.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						5.2%			5.2%		5.2%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 468 (lower)			0.68	0.39	62.34	0.71	79.9	0.3%	79.9	0.2	0.3%	0.55	0.3%
Window 468 (upper)			0.68	2.24	62.34	0.71	81.0	4.0%	81.0	0.2	4.0%	0.55	4.0%
Total ADF for room	Bedroom	1.0%						4.3%			4.3%		4.3%
Window 469 (lower)			0.68	1.38	56.59	0.69	55.2	0.7%	55.2	0.2	0.7%	0.55	0.7%
Window 469 (upper)			0.68	2.52	56.59	0.69	43.3	2.5%	43.3	0.2	2.5%	0.55	2.5%
Total ADF for room	Bedroom	1.0%						3.2%			3.2%		3.2%
Window 470 (lower)			0.68	0.77	113.05	0.69	45.3	0.2%	45.3	0.2	0.2%	0.55	0.2%
Window 470 (upper)			0.68	1.41	113.05	0.69	37.0	0.6%	37.0	0.2	0.6%	0.55	0.6%
Window 471 (lower)			0.68	0.39	113.05	0.69	81.5	0.1%	81.5	0.2	0.1%	0.55	0.1%
Window 471 (upper)			0.68	2.24	113.05	0.69	82.3	2.1%	82.3	0.2	2.1%	0.55	2.1%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.0%			3.0%		3.0%
Window 472 (lower)			0.68	0.39	62.37	0.71	82.2	0.3%	82.2	0.2	0.3%	0.55	0.3%
Window 472 (upper)			0.68	2.24	62.37	0.71	82.9	4.1%	82.9	0.2	4.1%	0.55	4.1%
Total ADF for room	Bedroom	1.0%						4.4%			4.4%		4.4%
Window 473			0.68	1.41	97.84	0.66	83.6	1.4%	83.6	0.2	1.4%	0.55	1.4%
Window 474 (lower)			0.68	1.38	97.84	0.66	42.0	0.3%	42.0	0.2	0.3%	0.55	0.3%
Window 474 (upper)			0.68	2.52	97.84	0.66	32.4	1.0%	32.4	0.2	1.0%	0.55	1.0%
Window 475 (lower)			0.68	0.54	97.84	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 475 (upper)			0.68	3.08	97.84	0.66	89.6	3.4%	89.6	0.2	3.4%	0.55	3.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.3%			6.3%		6.3%
Window 476 (lower)			0.68	0.46	50.11	0.7	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%
Window 476 (upper)			0.68	2.66	50.11	0.7	89.6	6.3%	89.6	0.2	6.3%	0.55	6.3%
Total ADF for room	Bedroom	1.0%						6.7%			6.7%		6.7%
Window 477 (lower)			0.68	0.46	50.11	0.7	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%
Window 477 (upper)			0.68	2.66	50.11	0.7	89.6	6.3%	89.6	0.2	6.3%	0.55	6.3%
Total ADF for room	Bedroom	1.0%						6.7%			6.7%		6.7%
Window 478 (lower)			0.68	0.54	97.84	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 478 (upper)			0.68	3.08	97.84	0.66	89.6	3.4%	89.6	0.2	3.4%	0.55	3.4%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 479 (lower)			0.68	1.38	97.84	0.66	43.0	0.3%	43.0	0.2	0.3%	0.55	0.3%
Window 479 (upper)			0.68	2.52	97.84	0.66	34.3	1.1%	34.3	0.2	1.1%	0.55	1.1%
Window 480			0.68	1.41	97.84	0.66	88.6	1.5%	88.6	0.2	1.5%	0.55	1.5%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.5%			6.5%		6.5%
Window 481 (lower)			0.68	0.39	62.37	0.71	86.9	0.3%	86.9	0.2	0.3%	0.55	0.3%
Window 481 (upper)			0.68	2.24	62.37	0.71	87.7	4.3%	87.7	0.2	4.3%	0.55	4.3%
Total ADF for room	Bedroom	1.0%						4.6%			4.6%		4.6%
Window 482 (lower)			0.68	1.38	57.4	0.69	43.9	0.5%	43.9	0.2	0.5%	0.55	0.5%
Window 482 (upper)			0.68	2.52	57.4	0.69	35.3	2.0%	35.3	0.2	2.0%	0.55	2.0%
Total ADF for room	Bedroom	1.0%						2.5%			2.5%		2.5%
Window 483 (lower)			0.68	0.77	112.2	0.69	31.3	0.1%	31.3	0.2	0.1%	0.55	0.1%
Window 483 (upper)			0.68	1.41	112.2	0.69	28.2	0.5%	28.2	0.2	0.5%	0.55	0.5%
Window 484 (lower)			0.68	0.39	112.2	0.69	69.0	0.1%	69.0	0.2	0.1%	0.55	0.1%
Window 484 (upper)			0.68	2.24	112.2	0.69	71.4	1.8%	71.4	0.2	1.8%	0.55	1.8%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.5%			2.5%		2.5%
Window 485 (lower)			0.68	1.38	56.55	0.69	55.7	0.7%	55.7	0.2	0.7%	0.55	0.7%
Window 485 (upper)			0.68	2.52	56.55	0.69	47.5	2.7%	47.5	0.2	2.7%	0.55	2.7%
Total ADF for room	Bedroom	1.0%						3.4%			3.4%		3.4%
Window 486 (lower)			0.68	0.77	113.05	0.69	46.6	0.2%	46.6	0.2	0.2%	0.55	0.2%
Window 486 (upper)			0.68	1.41	113.05	0.69	42.0	0.7%	42.0	0.2	0.7%	0.55	0.7%
Window 487 (lower)			0.68	0.39	113.05	0.69	88.4	0.2%	88.4	0.2	0.2%	0.55	0.2%
Window 487 (upper)			0.68	2.24	113.05	0.69	88.9	2.3%	88.9	0.2	2.3%	0.55	2.3%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.4%			3.4%		3.4%
Window 488 (lower)			0.68	0.39	62.36	0.71	88.5	0.3%	88.5	0.2	0.3%	0.55	0.3%
Window 488 (upper)			0.68	2.24	62.36	0.71	89.0	4.4%	89.0	0.2	4.4%	0.55	4.4%
Total ADF for room	Bedroom	1.0%						4.7%			4.7%		4.7%
Window 489			0.68	1.41	97.85	0.67	89.2	1.6%	89.2	0.2	1.6%	0.55	1.6%
Window 490 (lower)			0.68	1.38	97.85	0.67	57.3	0.4%	57.3	0.2	0.4%	0.55	0.4%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 490 (upper)			0.68	2.52	97.85	0.67	46.3	1.5%	46.3	0.2	1.5%	0.55	1.5%
Window 491 (lower)			0.68	0.39	97.85	0.67	67.3	0.1%	67.3	0.2	0.1%	0.55	0.1%
Window 491 (upper)			0.68	2.24	97.85	0.67	68.8	1.9%	68.8	0.2	1.9%	0.55	1.9%
Total ADF for room	Living/Dining/Kitchen	2.0%						5.5%			5.5%		5.5%
Window 492 (lower)			0.68	0.29	51.56	0.71	66.7	0.2%	66.7	0.2	0.2%	0.55	0.2%
Window 492 (upper)			0.68	1.69	51.56	0.71	68.2	3.1%	68.2	0.2	3.1%	0.55	3.1%
Total ADF for room	Bedroom	1.0%						3.3%			3.3%		3.3%
<u>Proposed Block D</u>													
<u>Block D - Ground Floor</u>													
Window 493 (lower)			0.68	0.26	42.07	0.71	41.4	0.1%	41.4	0.2	0.1%	0.55	0.1%
Window 493 (upper)			0.68	1.69	42.07	0.71	41.7	2.3%	41.7	0.2	2.3%	0.55	2.3%
Total ADF for room	Bedroom	1.0%						2.4%			2.4%		2.4%
Window 494 (lower)			0.68	0.34	99.3	0.67	46.7	0.1%	46.7	0.2	0.1%	0.55	0.1%
Window 494 (upper)			0.68	2.24	99.3	0.67	47.0	1.3%	47.0	0.2	1.3%	0.55	1.3%
Window 495 (lower)			0.68	1.38	99.3	0.67	41.5	0.3%	41.5	0.2	0.3%	0.55	0.3%
Window 495 (upper)			0.68	2.52	99.3	0.67	32.6	1.0%	32.6	0.2	1.0%	0.55	1.0%
Window 496			0.68	1.37	99.3	0.67	82.8	1.4%	82.8	0.2	1.4%	0.55	1.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						4.1%			4.1%		4.1%
Window 497 (lower)			0.68	0.34	63.3	0.71	80.4	0.2%	80.4	0.2	0.2%	0.55	0.2%
Window 497 (upper)			0.68	2.24	63.3	0.71	80.2	3.9%	80.2	0.2	3.9%	0.55	3.9%
Total ADF for room	Bedroom	1.0%						4.1%			4.1%		4.1%
<u>Block D - First Floor</u>													
Window 498 (lower)			0.68	0.26	42.05	0.71	43.2	0.1%	43.2	0.2	0.1%	0.55	0.1%
Window 498 (upper)			0.68	1.69	42.05	0.71	43.7	2.4%	43.7	0.2	2.4%	0.55	2.4%
Total ADF for room	Bedroom	1.0%						2.5%			2.5%		2.5%
Window 499 (lower)			0.68	0.34	99.43	0.67	48.0	0.1%	48.0	0.2	0.1%	0.55	0.1%
Window 499 (upper)			0.68	2.24	99.43	0.67	48.3	1.3%	48.3	0.2	1.3%	0.55	1.3%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 500 (lower)			0.68	1.38	99.43	0.67	41.9	0.3%	41.9	0.2	0.3%	0.55	0.3%
Window 500 (upper)			0.68	2.52	99.43	0.67	33.6	1.0%	33.6	0.2	1.0%	0.55	1.0%
Window 501			0.68	1.37	99.43	0.67	83.7	1.4%	83.7	0.2	1.4%	0.55	1.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						4.1%			4.1%		4.1%
Window 502 (lower)			0.68	0.34	63.1	0.71	80.8	0.2%	80.8	0.2	0.2%	0.55	0.2%
Window 502 (upper)			0.68	2.24	63.1	0.71	81.2	4.0%	81.2	0.2	4.0%	0.55	4.0%
Total ADF for room	Bedroom	1.0%						4.2%			4.2%		4.2%
Window 503 (lower)			0.68	1.69	56.5	0.67	46.9	0.7%	46.9	0.2	0.7%	0.55	0.7%
Window 503 (upper)			0.68	3.08	56.5	0.67	39.3	2.7%	39.3	0.2	2.7%	0.55	2.7%
Total ADF for room	Bedroom	1.0%						3.4%			3.4%		3.4%
Window 504 (lower)			0.68	0.77	113.05	0.68	34.5	0.1%	34.5	0.2	0.1%	0.55	0.1%
Window 504 (upper)			0.68	1.41	113.05	0.68	31.8	0.5%	31.8	0.2	0.5%	0.55	0.5%
Window 505 (lower)			0.68	0.47	113.05	0.68	88.1	0.2%	88.1	0.2	0.2%	0.55	0.2%
Window 505 (upper)			0.68	3.08	113.05	0.68	88.1	3.0%	88.1	0.2	3.0%	0.55	3.0%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.8%			3.8%		3.8%
Window 506 (lower)			0.68	0.47	63.1	0.7	88.1	0.3%	88.1	0.2	0.3%	0.55	0.3%
Window 506 (upper)			0.68	3.09	63.1	0.7	88.2	5.8%	88.2	0.2	5.8%	0.55	5.8%
Total ADF for room	Bedroom	1.0%						6.1%			6.1%		6.1%
Window 507 (lower)			0.68	1.54	99.44	0.66	42.9	0.3%	42.9	0.2	0.3%	0.55	0.3%
Window 508 (upper)			0.68	2.8	99.44	0.66	33.6	1.1%	33.6	0.2	1.1%	0.55	1.1%
Window 508 (lower)			0.68	0.47	99.44	0.66	89.8	0.2%	89.8	0.2	0.2%	0.55	0.2%
Window 509 (upper)			0.68	3.08	99.44	0.66	89.6	3.3%	89.6	0.2	3.3%	0.55	3.3%
Window 509			0.68	1.38	99.44	0.66	88.2	1.5%	88.2	0.2	1.5%	0.55	1.5%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.4%			6.4%		6.4%
Window 510 (lower)			0.68	0.4	42.05	0.69	89.8	0.4%	89.8	0.2	0.4%	0.55	0.4%
Window 510 (upper)			0.68	2.66	42.05	0.69	89.6	7.4%	89.6	0.2	7.4%	0.55	7.4%
Total ADF for room	Bedroom	1.0%						7.8%			7.8%		7.8%
Window 511 (lower)			0.68	0.4	42.05	0.69	89.8	0.4%	89.8	0.2	0.4%	0.55	0.4%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 511 (upper)			0.68	2.66	42.05	0.69	89.6	7.4%	89.6	0.2	7.4%	0.55	7.4%	
Total ADF for room	Bedroom	1.0%						7.8%			7.8%		7.8%	
Window 512 (lower)			0.68	0.47	99.45	0.66	89.8	0.2%	89.8	0.2	0.2%	0.55	0.2%	
Window 512 (upper)			0.68	3.08	99.45	0.66	89.6	3.3%	89.6	0.2	3.3%	0.55	3.3%	
Window 513 (lower)			0.68	1.38	99.45	0.66	39.2	0.3%	39.2	0.2	0.3%	0.55	0.3%	
Window 513 (upper)			0.68	2.52	99.45	0.66	28.9	0.9%	28.9	0.2	0.9%	0.55	0.9%	
Window 514			0.68	1.37	99.45	0.66	74.1	1.2%	74.1	0.2	1.2%	0.55	1.2%	
Total ADF for room	Living/Dining/Kitchen	2.0%						5.9%			5.9%		5.9%	
Window 515 (lower)			0.68	0.34	63.1	0.71	70.9	0.2%	70.9	0.2	0.2%	0.55	0.2%	
Window 515 (upper)			0.68	2.24	63.1	0.71	71.4	3.5%	71.4	0.2	3.5%	0.55	3.5%	
Total ADF for room	Bedroom	1.0%						3.7%			3.7%		3.7%	
Window 516 (lower)			0.68	1.38	57.12	0.69	41.1	0.5%	41.1	0.2	0.5%	0.55	0.5%	
Window 516 (upper)			0.68	2.52	57.12	0.69	33.9	1.9%	33.9	0.2	1.9%	0.55	1.9%	
Total ADF for room	Bedroom	1.0%						2.4%			2.4%		2.4%	
Window 517 (lower)			0.68	0.77	112.2	0.69	29.3	0.1%	29.3	0.2	0.1%	0.55	0.1%	
Window 517 (upper)			0.68	1.4	112.2	0.69	31.2	0.5%	31.2	0.2	0.5%	0.55	0.5%	
Window 518 (lower)			0.68	0.34	112.2	0.69	55.9	0.1%	55.9	0.2	0.1%	0.55	0.1%	
Window 518 (upper)			0.68	2.24	112.2	0.69	56.3	1.5%	56.3	0.2	1.5%	0.55	1.5%	
Total ADF for room	Living/Dining/Kitchen	2.0%						2.2%			2.2%		2.2%	
Window 519 (lower)			0.68	1.38	56.55	0.69	37.6	0.5%	37.6	0.2	0.5%	0.55	0.5%	
Window 519 (upper)			0.68	2.52	56.55	0.69	19.5	1.1%	19.5	0.2	1.1%	0.55	1.1%	
Total ADF for room	Bedroom	1.0%						1.6%			1.6%		1.6%	
Window 520 (lower)			0.68	0.77	113.0	0.69	36.3	0.1%	36.3	0.2	0.1%	0.55	0.1%	
Window 520 (upper)			0.68	1.41	113.0	0.69	26.8	0.4%	26.8	0.2	0.4%	0.55	0.4%	
Window 521 (lower)			0.68	0.34	113.0	0.69	71.1	0.1%	71.1	0.2	0.1%	0.55	0.1%	
Window 521 (upper)			0.68	2.24	113.0	0.69	71.8	1.8%	71.8	0.2	1.8%	0.55	1.8%	
Total ADF for room	Living/Dining/Kitchen	2.0%						2.4%			2.4%		2.4%	
Window 522 (lower)			0.68	0.34	63.09	0.71	71.1	0.2%	71.1	0.2	0.2%	0.55	0.2%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 522 (upper)			0.68	2.24	63.09	0.71	71.8	3.5%	71.8	0.2	3.5%	0.55	3.5%	
Total ADF for room	Bedroom	1.0%						3.7%			3.7%		3.7%	
Window 523			0.68	1.37	99.43	0.67	71.8	1.2%	71.8	0.2	1.2%	0.55	1.2%	
Window 524 (lower)			0.68	1.38	99.43	0.67	34.8	0.2%	34.8	0.2	0.2%	0.55	0.2%	
Window 524 (upper)			0.68	2.52	99.43	0.67	15.2	0.5%	15.2	0.2	0.5%	0.55	0.5%	
Window 525 (lower)			0.68	0.34	99.43	0.67	44.8	0.1%	44.8	0.2	0.1%	0.55	0.1%	
Window 525 (upper)			0.68	2.26	99.43	0.67	45.3	1.3%	45.3	0.2	1.3%	0.55	1.3%	
Total ADF for room	Living/Dining/Kitchen	2.0%						3.3%			3.3%		3.3%	
Window 526 (lower)			0.68	0.26	42.05	0.71	42.2	0.1%	42.2	0.2	0.1%	0.55	0.1%	
Window 526 (upper)			0.68	1.69	42.05	0.71	42.7	2.3%	42.7	0.2	2.3%	0.55	2.3%	
Total ADF for room	Bedroom	1.0%						2.4%			2.4%		2.4%	
<u>Block D - Second Floor</u>														
Window 527 (lower)			0.68	0.26	42.05	0.71	45.3	0.2%	45.3	0.2	0.2%	0.55	0.2%	
Window 527 (upper)			0.68	1.69	42.05	0.71	46.1	2.5%	46.1	0.2	2.5%	0.55	2.5%	
Total ADF for room	Bedroom	1.0%						2.7%			2.7%		2.7%	
Window 528 (lower)			0.68	0.34	99.43	0.67	49.8	0.1%	49.8	0.2	0.1%	0.55	0.1%	
Window 528 (upper)			0.68	2.24	99.43	0.67	50.3	1.4%	50.3	0.2	1.4%	0.55	1.4%	
Window 529 (lower)			0.68	1.38	99.43	0.67	42.0	0.3%	42.0	0.2	0.3%	0.55	0.3%	
Window 529 (upper)			0.68	2.52	99.43	0.67	34.0	1.1%	34.0	0.2	1.1%	0.55	1.1%	
Window 530			0.68	1.37	99.43	0.67	84.7	1.4%	84.7	0.2	1.4%	0.55	1.4%	
Total ADF for room	Living/Dining/Kitchen	2.0%						4.3%			4.3%		4.3%	
Window 531 (lower)			0.68	0.34	63.1	0.71	81.9	0.2%	81.9	0.2	0.2%	0.55	0.2%	
Window 531 (upper)			0.68	2.24	63.1	0.71	81.9	4.0%	81.9	0.2	4.0%	0.55	4.0%	
Total ADF for room	Bedroom	1.0%						4.2%			4.2%		4.2%	
Window 532 (lower)			0.68	1.69	56.5	0.67	46.9	0.7%	46.9	0.2	0.7%	0.55	0.7%	
Window 532 (upper)			0.68	3.08	56.5	0.67	39.7	2.7%	39.7	0.2	2.7%	0.55	2.7%	
Total ADF for room	Bedroom	1.0%						3.4%			3.4%		3.4%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 533 (lower)			0.68	0.77	113.05	0.68	34.8	0.1%	34.8	0.2	0.1%	0.55	0.1%
Window 533 (upper)			0.68	1.41	113.05	0.68	32.0	0.5%	32.0	0.2	0.5%	0.55	0.5%
Window 534 (lower)			0.68	0.47	113.05	0.68	89.1	0.2%	89.1	0.2	0.2%	0.55	0.2%
Window 534 (upper)			0.68	3.08	113.05	0.68	89.0	3.1%	89.0	0.2	3.1%	0.55	3.1%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.9%			3.9%		3.9%
Window 535 (lower)			0.68	0.47	63.1	0.7	89.2	0.4%	89.2	0.2	0.4%	0.55	0.4%
Window 535 (upper)			0.68	3.09	63.1	0.7	89.0	5.8%	89.0	0.2	5.8%	0.55	5.8%
Total ADF for room	Bedroom	1.0%						6.2%			6.2%		6.2%
Window 536			0.68	1.38	99.44	0.66	89.0	1.5%	89.0	0.2	1.5%	0.55	1.5%
Window 537 (lower)			0.68	1.54	99.44	0.66	42.9	0.3%	42.9	0.2	0.3%	0.55	0.3%
Window 537 (upper)			0.68	2.8	99.44	0.66	34.1	1.2%	34.1	0.2	1.2%	0.55	1.2%
Window 538 (lower)			0.68	0.47	99.44	0.66	89.8	0.2%	89.8	0.2	0.2%	0.55	0.2%
Window 538 (upper)			0.68	3.08	99.44	0.66	89.6	3.3%	89.6	0.2	3.3%	0.55	3.3%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.5%			6.5%		6.5%
Window 539 (lower)			0.68	0.4	42.05	0.69	89.9	0.5%	89.9	0.2	0.5%	0.55	0.5%
Window 539 (upper)			0.68	2.66	42.05	0.69	89.6	7.4%	89.6	0.2	7.4%	0.55	7.4%
Total ADF for room	Bedroom	1.0%						7.9%			7.9%		7.9%
Window 540 (lower)			0.68	0.4	42.05	0.69	89.9	0.5%	89.9	0.2	0.5%	0.55	0.5%
Window 540 (upper)			0.68	2.66	42.05	0.69	89.6	7.4%	89.6	0.2	7.4%	0.55	7.4%
Total ADF for room	Bedroom	1.0%						7.9%			7.9%		7.9%
Window 541 (lower)			0.68	0.47	99.45	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 541 (upper)			0.68	3.08	99.45	0.66	89.6	3.3%	89.6	0.2	3.3%	0.55	3.3%
Window 542 (lower)			0.68	1.38	99.45	0.66	40.1	0.3%	40.1	0.2	0.3%	0.55	0.3%
Window 542 (upper)			0.68	2.52	99.45	0.66	30.3	0.9%	30.3	0.2	0.9%	0.55	0.9%
Window 543			0.68	1.37	99.45	0.66	76.5	1.3%	76.5	0.2	1.3%	0.55	1.3%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.0%			6.0%		6.0%
Window 544 (lower)			0.68	0.34	63.1	0.71	73.1	0.2%	73.1	0.2	0.2%	0.55	0.2%
Window 544 (upper)			0.68	2.24	63.1	0.71	73.7	3.6%	73.7	0.2	3.6%	0.55	3.6%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Total ADF for room	Bedroom	1.0%									3.8%		3.8%
Window 545 (lower)			0.68	1.38	57.12	0.69	42.5	0.5%	42.5	0.2	0.5%	0.55	0.5%
Window 545 (upper)			0.68	2.52	57.12	0.69	35.4	2.0%	35.4	0.2	2.0%	0.55	2.0%
Total ADF for room	Bedroom	1.0%									2.5%		2.5%
Window 546 (lower)			0.68	0.77	112.2	0.69	29.4	0.1%	29.4	0.2	0.1%	0.55	0.1%
Window 546 (upper)			0.68	1.4	112.2	0.69	31.3	0.5%	31.3	0.2	0.5%	0.55	0.5%
Window 547 (lower)			0.68	0.34	112.2	0.69	57.4	0.1%	57.4	0.2	0.1%	0.55	0.1%
Window 547 (upper)			0.68	2.24	112.2	0.69	57.8	1.5%	57.8	0.2	1.5%	0.55	1.5%
Total ADF for room	Living/Dining/Kitchen	2.0%									2.2%		2.2%
Window 548 (lower)			0.68	1.38	56.55	0.69	39.5	0.5%	39.5	0.2	0.5%	0.55	0.5%
Window 548 (upper)			0.68	2.52	56.55	0.69	22.7	1.3%	22.7	0.2	1.3%	0.55	1.3%
Total ADF for room	Bedroom	1.0%									1.8%		1.8%
Window 549 (lower)			0.68	0.77	113.0	0.69	36.6	0.1%	36.6	0.2	0.1%	0.55	0.1%
Window 549 (upper)			0.68	1.41	113.0	0.69	27.2	0.4%	27.2	0.2	0.4%	0.55	0.4%
Window 550 (lower)			0.68	0.34	113.0	0.69	74.1	0.1%	74.1	0.2	0.1%	0.55	0.1%
Window 550 (upper)			0.68	2.24	113.0	0.69	74.9	1.9%	74.9	0.2	1.9%	0.55	1.9%
Total ADF for room	Living/Dining/Kitchen	2.0%									2.5%		2.5%
Window 551 (lower)			0.68	0.34	63.09	0.71	74.0	0.2%	74.0	0.2	0.2%	0.55	0.2%
Window 551 (upper)			0.68	2.24	63.09	0.71	74.8	3.7%	74.8	0.2	3.7%	0.55	3.7%
Total ADF for room	Bedroom	1.0%									3.9%		3.9%
Window 552			0.68	1.37	99.43	0.67	74.9	1.3%	74.9	0.2	1.3%	0.55	1.3%
Window 553 (lower)			0.68	1.38	99.43	0.67	37.1	0.3%	37.1	0.2	0.3%	0.55	0.3%
Window 553 (upper)			0.68	2.52	99.43	0.67	16.3	0.5%	16.3	0.2	0.5%	0.55	0.5%
Window 554 (lower)			0.68	0.34	99.43	0.67	47.1	0.1%	47.1	0.2	0.1%	0.55	0.1%
Window 554 (upper)			0.68	2.26	99.43	0.67	47.8	1.3%	47.8	0.2	1.3%	0.55	1.3%
Total ADF for room	Living/Dining/Kitchen	2.0%									3.5%		3.5%
Window 555 (lower)			0.68	0.26	42.05	0.71	44.5	0.1%	44.5	0.2	0.1%	0.55	0.1%
Window 555 (upper)			0.68	1.69	42.05	0.71	45.3	2.5%	45.3	0.2	2.5%	0.55	2.5%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees		Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF		
Total ADF for room	Bedroom	1.0%									2.6%			2.6%	
<u>Block D - Third Floor</u>															
Window 556 (lower)			0.68	0.26	42.05	0.71	48.4	0.2%	48.4	0.2	0.2%	0.55	0.2%		
Window 556 (upper)			0.68	1.69	42.05	0.71	49.5	2.7%	49.5	0.2	2.7%	0.55	2.7%		
Total ADF for room	Bedroom	1.0%									2.9%			2.9%	
Window 557 (lower)			0.68	0.34	99.43	0.67	52.5	0.1%	52.5	0.2	0.1%	0.55	0.1%		
Window 557 (upper)			0.68	2.24	99.43	0.67	53.3	1.5%	53.3	0.2	1.5%	0.55	1.5%		
Window 558 (lower)			0.68	1.38	99.43	0.67	42.0	0.3%	42.0	0.2	0.3%	0.55	0.3%		
Window 558 (upper)			0.68	2.52	99.43	0.67	34.4	1.1%	34.4	0.2	1.1%	0.55	1.1%		
Window 559			0.68	1.37	99.43	0.67	85.4	1.4%	85.4	0.2	1.4%	0.55	1.4%		
Total ADF for room	Living/Dining/Kitchen	2.0%									4.4%			4.4%	
Window 560 (lower)			0.68	0.34	63.1	0.71	82.8	0.2%	82.8	0.2	0.2%	0.55	0.2%		
Window 560 (upper)			0.68	2.24	63.1	0.71	82.8	4.0%	82.8	0.2	4.0%	0.55	4.0%		
Total ADF for room	Bedroom	1.0%									4.2%			4.2%	
Window 561 (lower)			0.68	1.69	56.5	0.67	46.9	0.7%	46.9	0.2	0.7%	0.55	0.7%		
Window 561 (upper)			0.68	3.08	56.5	0.67	40.1	2.7%	40.1	0.2	2.7%	0.55	2.7%		
Total ADF for room	Bedroom	1.0%									3.4%			3.4%	
Window 562 (lower)			0.68	0.77	113.05	0.68	35.1	0.1%	35.1	0.2	0.1%	0.55	0.1%		
Window 562 (upper)			0.68	1.41	113.05	0.68	32.1	0.5%	32.1	0.2	0.5%	0.55	0.5%		
Window 563 (lower)			0.68	0.47	113.05	0.68	89.8	0.2%	89.8	0.2	0.2%	0.55	0.2%		
Window 563 (upper)			0.68	3.08	113.05	0.68	89.5	3.1%	89.5	0.2	3.1%	0.55	3.1%		
Total ADF for room	Living/Dining/Kitchen	2.0%									3.9%			3.9%	
Window 564 (lower)			0.68	0.47	63.1	0.7	89.8	0.4%	89.8	0.2	0.4%	0.55	0.4%		
Window 564 (upper)			0.68	3.09	63.1	0.7	89.5	5.8%	89.5	0.2	5.8%	0.55	5.8%		
Total ADF for room	Bedroom	1.0%									6.2%			6.2%	
Window 565			0.68	1.38	99.44	0.66	89.4	1.5%	89.4	0.2	1.5%	0.55	1.5%		
Window 566 (lower)			0.68	1.54	99.44	0.66	42.9	0.3%	42.9	0.2	0.3%	0.55	0.3%		

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 566 (upper)			0.68	2.8	99.44	0.66	34.4	1.2%	34.4	0.2	1.2%	0.55	1.2%
Window 567 (lower)			0.68	0.47	99.44	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 567 (upper)			0.68	3.08	99.44	0.66	89.6	3.3%	89.6	0.2	3.3%	0.55	3.3%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.5%			6.5%		6.5%
Window 568 (lower)			0.68	0.4	42.05	0.69	89.9	0.5%	89.9	0.2	0.5%	0.55	0.5%
Window 568 (upper)			0.68	2.66	42.05	0.69	89.6	7.4%	89.6	0.2	7.4%	0.55	7.4%
Total ADF for room	Bedroom	1.0%						7.9%			7.9%		7.9%
Window 569 (lower)			0.68	0.4	42.05	0.69	89.9	0.5%	89.9	0.2	0.5%	0.55	0.5%
Window 569 (upper)			0.68	2.66	42.05	0.69	89.6	7.4%	89.6	0.2	7.4%	0.55	7.4%
Total ADF for room	Bedroom	1.0%						7.9%			7.9%		7.9%
Window 570 (lower)			0.68	0.47	99.45	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 570 (upper)			0.68	3.08	99.45	0.66	89.6	3.3%	89.6	0.2	3.3%	0.55	3.3%
Window 571 (lower)			0.68	1.38	99.45	0.66	41.0	0.3%	41.0	0.2	0.3%	0.55	0.3%
Window 571 (upper)			0.68	2.52	99.45	0.66	31.5	1.0%	31.5	0.2	1.0%	0.55	1.0%
Window 572			0.68	1.37	99.45	0.66	79.0	1.3%	79.0	0.2	1.3%	0.55	1.3%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.1%			6.1%		6.1%
Window 573 (lower)			0.68	0.34	63.1	0.71	75.8	0.2%	75.8	0.2	0.2%	0.55	0.2%
Window 573 (upper)			0.68	2.24	63.1	0.71	76.4	3.7%	76.4	0.2	3.7%	0.55	3.7%
Total ADF for room	Bedroom	1.0%						3.9%			3.9%		3.9%
Window 574 (lower)			0.68	1.38	57.12	0.69	43.9	0.5%	43.9	0.2	0.5%	0.55	0.5%
Window 574 (upper)			0.68	2.52	57.12	0.69	37.0	2.1%	37.0	0.2	2.1%	0.55	2.1%
Total ADF for room	Bedroom	1.0%						2.6%			2.6%		2.6%
Window 575 (lower)			0.68	0.77	112.2	0.69	29.4	0.1%	29.4	0.2	0.1%	0.55	0.1%
Window 575 (upper)			0.68	1.4	112.2	0.69	31.4	0.5%	31.4	0.2	0.5%	0.55	0.5%
Window 576 (lower)			0.68	0.34	112.2	0.69	59.1	0.1%	59.1	0.2	0.1%	0.55	0.1%
Window 576 (upper)			0.68	2.24	112.2	0.69	59.5	1.5%	59.5	0.2	1.5%	0.55	1.5%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.2%			2.2%		2.2%
Window 577 (lower)			0.68	1.38	56.55	0.69	41.2	0.5%	41.2	0.2	0.5%	0.55	0.5%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 577 (upper)			0.68	2.52	56.55	0.69	25.7	1.5%	25.7	0.2	1.5%	0.55	1.5%	
Total ADF for room	Bedroom	1.0%						2.0%			2.0%		2.0%	
Window 578 (lower)			0.68	0.77	113.0	0.69	36.9	0.1%	36.9	0.2	0.1%	0.55	0.1%	
Window 578 (upper)			0.68	1.41	113.0	0.69	27.6	0.4%	27.6	0.2	0.4%	0.55	0.4%	
Window 579 (lower)			0.68	0.34	113.0	0.69	77.4	0.1%	77.4	0.2	0.1%	0.55	0.1%	
Window 579 (upper)			0.68	2.24	113.0	0.69	78.1	2.0%	78.1	0.2	2.0%	0.55	2.0%	
Total ADF for room	Living/Dining/Kitchen	2.0%						2.6%			2.6%		2.6%	
Window 580 (lower)			0.68	0.34	63.09	0.71	77.2	0.2%	77.2	0.2	0.2%	0.55	0.2%	
Window 580 (upper)			0.68	2.24	63.09	0.71	78.0	3.8%	78.0	0.2	3.8%	0.55	3.8%	
Total ADF for room	Bedroom	1.0%						4.0%			4.0%		4.0%	
Window 581			0.68	1.37	99.43	0.67	78.0	1.3%	78.0	0.2	1.3%	0.55	1.3%	
Window 582 (lower)			0.68	1.38	99.43	0.67	38.9	0.3%	38.9	0.2	0.3%	0.55	0.3%	
Window 582 (upper)			0.68	2.52	99.43	0.67	19.1	0.6%	19.1	0.2	0.6%	0.55	0.6%	
Window 583 (lower)			0.68	0.34	99.43	0.67	50.3	0.1%	50.3	0.2	0.1%	0.55	0.1%	
Window 583 (upper)			0.68	2.26	99.43	0.67	51.3	1.4%	51.3	0.2	1.4%	0.55	1.4%	
Total ADF for room	Living/Dining/Kitchen	2.0%						3.7%			3.7%		3.7%	
Window 584 (lower)			0.68	0.26	42.05	0.71	47.8	0.2%	47.8	0.2	0.2%	0.55	0.2%	
Window 584 (upper)			0.68	1.69	42.05	0.71	48.9	2.7%	48.9	0.2	2.7%	0.55	2.7%	
Total ADF for room	Bedroom	1.0%						2.9%			2.9%		2.9%	
<u>Block D - Fourth Floor</u>														
Window 585 (lower)			0.68	0.26	42.05	0.71	53.1	0.2%	53.1	0.2	0.2%	0.55	0.2%	
Window 585 (upper)			0.68	1.69	42.05	0.71	54.7	3.0%	54.7	0.2	3.0%	0.55	3.0%	
Total ADF for room	Bedroom	1.0%						3.2%			3.2%		3.2%	
Window 586 (lower)			0.68	0.34	99.43	0.67	56.5	0.1%	56.5	0.2	0.1%	0.55	0.1%	
Window 586 (upper)			0.68	2.24	99.43	0.67	57.9	1.6%	57.9	0.2	1.6%	0.55	1.6%	
Window 587 (lower)			0.68	1.38	99.43	0.67	42.0	0.3%	42.0	0.2	0.3%	0.55	0.3%	
Window 587 (upper)			0.68	2.52	99.43	0.67	34.5	1.1%	34.5	0.2	1.1%	0.55	1.1%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 588			0.68	1.37	99.43	0.67	86.1	1.5%	86.1	0.2	1.5%	0.55	1.5%	
Total ADF for room	Living/Dining/Kitchen	2.0%						4.6%			4.6%		4.6%	
Window 589 (lower)			0.68	0.34	63.1	0.71	83.7	0.2%	83.7	0.2	0.2%	0.55	0.2%	
Window 589 (upper)			0.68	2.24	63.1	0.71	83.8	4.1%	83.8	0.2	4.1%	0.55	4.1%	
Total ADF for room	Bedroom	1.0%						4.3%			4.3%		4.3%	
Window 590 (lower)			0.68	1.69	56.5	0.67	46.9	0.7%	46.9	0.2	0.7%	0.55	0.7%	
Window 590 (upper)			0.68	3.08	56.5	0.67	40.2	2.7%	40.2	0.2	2.7%	0.55	2.7%	
Total ADF for room	Bedroom	1.0%						3.4%			3.4%		3.4%	
Window 591 (lower)			0.68	0.77	113.05	0.68	35.5	0.1%	35.5	0.2	0.1%	0.55	0.1%	
Window 591 (upper)			0.68	1.41	113.05	0.68	32.4	0.5%	32.4	0.2	0.5%	0.55	0.5%	
Window 592 (lower)			0.68	0.47	113.05	0.68	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%	
Window 592 (upper)			0.68	3.08	113.05	0.68	89.6	3.1%	89.6	0.2	3.1%	0.55	3.1%	
Total ADF for room	Living/Dining/Kitchen	2.0%						3.9%			3.9%		3.9%	
Window 593 (lower)			0.68	0.47	63.1	0.7	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%	
Window 593 (upper)			0.68	3.09	63.1	0.7	89.6	5.8%	89.6	0.2	5.8%	0.55	5.8%	
Total ADF for room	Bedroom	1.0%						6.2%			6.2%		6.2%	
Window 594			0.68	1.38	99.44	0.66	89.4	1.5%	89.4	0.2	1.5%	0.55	1.5%	
Window 595 (lower)			0.68	1.54	99.44	0.66	42.9	0.3%	42.9	0.2	0.3%	0.55	0.3%	
Window 595 (upper)			0.68	2.8	99.44	0.66	34.5	1.2%	34.5	0.2	1.2%	0.55	1.2%	
Window 596 (lower)			0.68	0.47	99.44	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%	
Window 596 (upper)			0.68	3.08	99.44	0.66	89.6	3.3%	89.6	0.2	3.3%	0.55	3.3%	
Total ADF for room	Living/Dining/Kitchen	2.0%						6.5%			6.5%		6.5%	
Window 597 (lower)			0.68	0.4	42.05	0.69	89.9	0.5%	89.9	0.2	0.5%	0.55	0.5%	
Window 597 (upper)			0.68	2.66	42.05	0.69	89.6	7.4%	89.6	0.2	7.4%	0.55	7.4%	
Total ADF for room	Bedroom	1.0%						7.9%			7.9%		7.9%	
Window 598 (lower)			0.68	0.4	42.05	0.69	89.9	0.5%	89.9	0.2	0.5%	0.55	0.5%	
Window 598 (upper)			0.68	2.66	42.05	0.69	89.6	7.4%	89.6	0.2	7.4%	0.55	7.4%	
Total ADF for room	Bedroom	1.0%						7.9%			7.9%		7.9%	

Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 599 (lower)			0.68	0.47	99.45	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 599 (upper)			0.68	3.08	99.45	0.66	89.6	3.3%	89.6	0.2	3.3%	0.55	3.3%
Window 600 (lower)			0.68	1.38	99.45	0.66	41.7	0.3%	41.7	0.2	0.3%	0.55	0.3%
Window 600 (upper)			0.68	2.52	99.45	0.66	32.6	1.0%	32.6	0.2	1.0%	0.55	1.0%
Window 601			0.68	1.37	99.45	0.66	81.8	1.4%	81.8	0.2	1.4%	0.55	1.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.2%			6.2%		6.2%
Window 602 (lower)			0.68	0.34	63.1	0.71	78.7	0.2%	78.7	0.2	0.2%	0.55	0.2%
Window 602 (upper)			0.68	2.24	63.1	0.71	79.4	3.9%	79.4	0.2	3.9%	0.55	3.9%
Total ADF for room	Bedroom	1.0%						4.1%			4.1%		4.1%
Window 603 (lower)			0.68	1.38	57.12	0.69	45.2	0.6%	45.2	0.2	0.6%	0.55	0.6%
Window 603 (upper)			0.68	2.52	57.12	0.69	38.5	2.2%	38.5	0.2	2.2%	0.55	2.2%
Total ADF for room	Bedroom	1.0%						2.8%			2.8%		2.8%
Window 604 (lower)			0.68	0.77	112.2	0.69	29.4	0.1%	29.4	0.2	0.1%	0.55	0.1%
Window 604 (upper)			0.68	1.4	112.2	0.69	31.5	0.5%	31.5	0.2	0.5%	0.55	0.5%
Window 605 (lower)			0.68	0.34	112.2	0.69	61.1	0.1%	61.1	0.2	0.1%	0.55	0.1%
Window 605 (upper)			0.68	2.24	112.2	0.69	61.7	1.6%	61.7	0.2	1.6%	0.55	1.6%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.3%			2.3%		2.3%
Window 606 (lower)			0.68	1.38	56.55	0.69	42.9	0.5%	42.9	0.2	0.5%	0.55	0.5%
Window 606 (upper)			0.68	2.52	56.55	0.69	28.2	1.6%	28.2	0.2	1.6%	0.55	1.6%
Total ADF for room	Bedroom	1.0%						2.1%			2.1%		2.1%
Window 607 (lower)			0.68	0.77	113.0	0.69	37.1	0.1%	37.1	0.2	0.1%	0.55	0.1%
Window 607 (upper)			0.68	1.41	113.0	0.69	28.0	0.4%	28.0	0.2	0.4%	0.55	0.4%
Window 608 (lower)			0.68	0.34	113.0	0.69	80.5	0.1%	80.5	0.2	0.1%	0.55	0.1%
Window 608 (upper)			0.68	2.24	113.0	0.69	81.2	2.1%	81.2	0.2	2.1%	0.55	2.1%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.7%			2.7%		2.7%
Window 609 (lower)			0.68	0.34	63.09	0.71	80.3	0.2%	80.3	0.2	0.2%	0.55	0.2%
Window 609 (upper)			0.68	2.24	63.09	0.71	81.0	4.0%	81.0	0.2	4.0%	0.55	4.0%
Total ADF for room	Bedroom	1.0%						4.2%			4.2%		4.2%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 610			0.68	1.37	99.43	0.67	81.2	1.4%	81.2	0.2	1.4%	0.55	1.4%
Window 611 (lower)			0.68	1.38	99.43	0.67	40.6	0.3%	40.6	0.2	0.3%	0.55	0.3%
Window 611 (upper)			0.68	2.52	99.43	0.67	22.1	0.7%	22.1	0.2	0.7%	0.55	0.7%
Window 612 (lower)			0.68	0.34	99.43	0.67	55.0	0.1%	55.0	0.2	0.1%	0.55	0.1%
Window 612 (upper)			0.68	2.26	99.43	0.67	56.6	1.6%	56.6	0.2	1.6%	0.55	1.6%
Total ADF for room	Living/Dining/Kitchen	2.0%						4.1%			4.1%		4.1%
Window 613 (lower)			0.68	0.26	42.05	0.71	52.7	0.2%	52.7	0.2	0.2%	0.55	0.2%
Window 613 (upper)			0.68	1.69	42.05	0.71	54.4	3.0%	54.4	0.2	3.0%	0.55	3.0%
Total ADF for room	Bedroom	1.0%						3.2%			3.2%		3.2%
<u>Block D - Fifth Floor</u>													
Window 614 (lower)			0.68	0.26	42.05	0.71	60.2	0.2%	60.2	0.2	0.2%	0.55	0.2%
Window 614 (upper)			0.68	1.69	42.05	0.71	62.6	3.4%	62.6	0.2	3.4%	0.55	3.4%
Total ADF for room	Bedroom	1.0%						3.6%			3.6%		3.6%
Window 615 (lower)			0.68	0.34	99.43	0.67	62.8	0.1%	62.8	0.2	0.1%	0.55	0.1%
Window 615 (upper)			0.68	2.24	99.43	0.67	65.0	1.8%	65.0	0.2	1.8%	0.55	1.8%
Window 616 (lower)			0.68	1.38	99.43	0.67	42.1	0.3%	42.1	0.2	0.3%	0.55	0.3%
Window 616 (upper)			0.68	2.52	99.43	0.67	34.5	1.1%	34.5	0.2	1.1%	0.55	1.1%
Window 617			0.68	1.37	99.43	0.67	87.1	1.5%	87.1	0.2	1.5%	0.55	1.5%
Total ADF for room	Living/Dining/Kitchen	2.0%						4.8%			4.8%		4.8%
Window 618 (lower)			0.68	0.34	63.1	0.71	85.0	0.3%	85.0	0.2	0.3%	0.55	0.3%
Window 618 (upper)			0.68	2.24	63.1	0.71	85.3	4.2%	85.3	0.2	4.2%	0.55	4.2%
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%
Window 619 (lower)			0.68	1.69	56.5	0.67	46.9	0.7%	46.9	0.2	0.7%	0.55	0.7%
Window 619 (upper)			0.68	3.08	56.5	0.67	40.2	2.7%	40.2	0.2	2.7%	0.55	2.7%
Total ADF for room	Bedroom	1.0%						3.4%			3.4%		3.4%
Window 620 (lower)			0.68	0.77	113.05	0.68	35.7	0.1%	35.7	0.2	0.1%	0.55	0.1%
Window 620 (upper)			0.68	1.41	113.05	0.68	32.6	0.5%	32.6	0.2	0.5%	0.55	0.5%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 621 (lower)			0.68	0.47	113.05	0.68	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 621 (upper)			0.68	3.08	113.05	0.68	89.6	3.1%	89.6	0.2	3.1%	0.55	3.1%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.9%			3.9%		3.9%
Window 622 (lower)			0.68	0.47	63.1	0.7	89.9	0.4%	89.9	0.2	0.4%	0.55	0.4%
Window 622 (upper)			0.68	3.09	63.1	0.7	89.6	5.8%	89.6	0.2	5.8%	0.55	5.8%
Total ADF for room	Bedroom	1.0%						6.2%			6.2%		6.2%
Window 623			0.68	1.38	99.44	0.66	89.4	1.5%	89.4	0.2	1.5%	0.55	1.5%
Window 624 (lower)			0.68	1.54	99.44	0.66	42.9	0.3%	42.9	0.2	0.3%	0.55	0.3%
Window 624 (upper)			0.68	2.8	99.44	0.66	34.5	1.2%	34.5	0.2	1.2%	0.55	1.2%
Window 625 (lower)			0.68	0.47	99.44	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 625 (upper)			0.68	3.08	99.44	0.66	89.6	3.3%	89.6	0.2	3.3%	0.55	3.3%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.5%			6.5%		6.5%
Window 626 (lower)			0.68	0.4	42.05	0.69	89.9	0.5%	89.9	0.2	0.5%	0.55	0.5%
Window 626 (upper)			0.68	2.66	42.05	0.69	89.6	7.4%	89.6	0.2	7.4%	0.55	7.4%
Total ADF for room	Bedroom	1.0%						7.9%			7.9%		7.9%
Window 627 (lower)			0.68	0.4	42.05	0.69	89.9	0.5%	89.9	0.2	0.5%	0.55	0.5%
Window 627 (upper)			0.68	2.66	42.05	0.69	89.6	7.4%	89.6	0.2	7.4%	0.55	7.4%
Total ADF for room	Bedroom	1.0%						7.9%			7.9%		7.9%
Window 628 (lower)			0.68	0.47	99.45	0.66	89.9	0.2%	89.9	0.2	0.2%	0.55	0.2%
Window 628 (upper)			0.68	3.08	99.45	0.66	89.6	3.3%	89.6	0.2	3.3%	0.55	3.3%
Window 629 (lower)			0.68	1.38	99.45	0.66	42.4	0.3%	42.4	0.2	0.3%	0.55	0.3%
Window 629 (upper)			0.68	2.52	99.45	0.66	33.8	1.0%	33.8	0.2	1.0%	0.55	1.0%
Window 630			0.68	1.37	99.45	0.66	84.9	1.4%	84.9	0.2	1.4%	0.55	1.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.2%			6.2%		6.2%
Window 631 (lower)			0.68	0.34	63.1	0.71	82.2	0.2%	82.2	0.2	0.2%	0.55	0.2%
Window 631 (upper)			0.68	2.24	63.1	0.71	83.1	4.1%	83.1	0.2	4.1%	0.55	4.1%
Total ADF for room	Bedroom	1.0%						4.3%			4.3%		4.3%
Window 632 (lower)			0.68	1.38	57.12	0.69	46.0	0.6%	46.0	0.2	0.6%	0.55	0.6%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 632 (upper)			0.68	2.52	57.12	0.69	39.9	2.3%	39.9	0.2	2.3%	0.55	2.3%	
Total ADF for room	Bedroom	1.0%						2.9%			2.9%		2.9%	
Window 633 (lower)			0.68	0.77	112.2	0.69	29.4	0.1%	29.4	0.2	0.1%	0.55	0.1%	
Window 633 (upper)			0.68	1.4	112.2	0.69	31.6	0.5%	31.6	0.2	0.5%	0.55	0.5%	
Window 634 (lower)			0.68	0.34	112.2	0.69	64.2	0.1%	64.2	0.2	0.1%	0.55	0.1%	
Window 634 (upper)			0.68	2.24	112.2	0.69	65.2	1.7%	65.2	0.2	1.7%	0.55	1.7%	
Total ADF for room	Living/Dining/Kitchen	2.0%						2.4%			2.4%		2.4%	
Window 635 (lower)			0.68	1.38	56.55	0.69	44.4	0.6%	44.4	0.2	0.6%	0.55	0.6%	
Window 635 (upper)			0.68	2.52	56.55	0.69	30.5	1.7%	30.5	0.2	1.7%	0.55	1.7%	
Total ADF for room	Bedroom	1.0%						2.3%			2.3%		2.3%	
Window 636 (lower)			0.68	0.77	113.0	0.69	37.4	0.1%	37.4	0.2	0.1%	0.55	0.1%	
Window 636 (upper)			0.68	1.41	113.0	0.69	28.4	0.5%	28.4	0.2	0.5%	0.55	0.5%	
Window 637 (lower)			0.68	0.34	113.0	0.69	83.7	0.1%	83.7	0.2	0.1%	0.55	0.1%	
Window 637 (upper)			0.68	2.24	113.0	0.69	84.4	2.2%	84.4	0.2	2.2%	0.55	2.2%	
Total ADF for room	Living/Dining/Kitchen	2.0%						2.9%			2.9%		2.9%	
Window 638 (lower)			0.68	0.34	63.09	0.71	83.5	0.2%	83.5	0.2	0.2%	0.55	0.2%	
Window 638 (upper)			0.68	2.24	63.09	0.71	84.1	4.1%	84.1	0.2	4.1%	0.55	4.1%	
Total ADF for room	Bedroom	1.0%						4.3%			4.3%		4.3%	
Window 639			0.68	1.37	99.43	0.67	84.4	1.4%	84.4	0.2	1.4%	0.55	1.4%	
Window 640 (lower)			0.68	1.38	99.43	0.67	42.1	0.3%	42.1	0.2	0.3%	0.55	0.3%	
Window 640 (upper)			0.68	2.52	99.43	0.67	25.0	0.8%	25.0	0.2	0.8%	0.55	0.8%	
Window 641 (lower)			0.68	0.34	99.43	0.67	62.0	0.1%	62.0	0.2	0.1%	0.55	0.1%	
Window 641 (upper)			0.68	2.26	99.43	0.67	64.5	1.8%	64.5	0.2	1.8%	0.55	1.8%	
Total ADF for room	Living/Dining/Kitchen	2.0%						4.4%			4.4%		4.4%	
Window 642 (lower)			0.68	0.26	42.05	0.71	60.0	0.2%	60.0	0.2	0.2%	0.55	0.2%	
Window 642 (upper)			0.68	1.69	42.05	0.71	62.4	3.4%	62.4	0.2	3.4%	0.55	3.4%	
Total ADF for room	Bedroom	1.0%						3.6%			3.6%		3.6%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
<u>Block D - Sixth Floor</u>														
Window 643 (lower)			0.68	0.26	42.05	0.71	70.2	0.2%	70.2	0.2	0.2%	0.55	0.2%	
Window 643 (upper)			0.68	1.69	42.05	0.71	72.9	4.0%	72.9	0.2	4.0%	0.55	4.0%	
Total ADF for room	Bedroom	1.0%						4.2%			4.2%		4.2%	
Window 644 (lower)			0.68	0.34	99.43	0.67	71.9	0.1%	71.9	0.2	0.1%	0.55	0.1%	
Window 644 (upper)			0.68	2.24	99.43	0.67	74.3	2.1%	74.3	0.2	2.1%	0.55	2.1%	
Window 645 (lower)			0.68	1.38	99.43	0.67	43.8	0.3%	43.8	0.2	0.3%	0.55	0.3%	
Window 645 (upper)			0.68	2.52	99.43	0.67	38.4	1.2%	38.4	0.2	1.2%	0.55	1.2%	
Window 646			0.68	1.37	99.43	0.67	88.3	1.5%	88.3	0.2	1.5%	0.55	1.5%	
Total ADF for room	Living/Dining/Kitchen	2.0%						5.2%			5.2%		5.2%	
Window 647 (lower)			0.68	0.34	63.1	0.71	86.9	0.3%	86.9	0.2	0.3%	0.55	0.3%	
Window 647 (upper)			0.68	2.24	63.1	0.71	87.5	4.3%	87.5	0.2	4.3%	0.55	4.3%	
Total ADF for room	Bedroom	1.0%						4.6%			4.6%		4.6%	
Window 648 (lower)			0.68	1.69	56.5	0.67	48.3	0.7%	48.3	0.2	0.7%	0.55	0.7%	
Window 648 (upper)			0.68	3.08	56.5	0.67	44.2	3.0%	44.2	0.2	3.0%	0.55	3.0%	
Total ADF for room	Bedroom	1.0%						3.7%			3.7%		3.7%	
Window 649 (lower)			0.68	0.77	113.05	0.68	37.0	0.1%	37.0	0.2	0.1%	0.55	0.1%	
Window 649 (upper)			0.68	1.41	113.05	0.68	35.7	0.6%	35.7	0.2	0.6%	0.55	0.6%	
Window 650 (lower)			0.68	0.47	113.05	0.68	89.8	0.2%	89.8	0.2	0.2%	0.55	0.2%	
Window 650 (upper)			0.68	3.08	113.05	0.68	89.6	3.1%	89.6	0.2	3.1%	0.55	3.1%	
Total ADF for room	Living/Dining/Kitchen	2.0%						4.0%			4.0%		4.0%	
Window 651 (lower)			0.68	0.47	63.1	0.7	89.8	0.4%	89.8	0.2	0.4%	0.55	0.4%	
Window 651 (upper)			0.68	3.09	63.1	0.7	89.6	5.8%	89.6	0.2	5.8%	0.55	5.8%	
Total ADF for room	Bedroom	1.0%						6.2%			6.2%		6.2%	
Window 652			0.68	1.38	99.44	0.66	89.4	1.5%	89.4	0.2	1.5%	0.55	1.5%	
Window 653 (lower)			0.68	1.54	99.44	0.66	44.5	0.3%	44.5	0.2	0.3%	0.55	0.3%	
Window 653 (upper)			0.68	2.8	99.44	0.66	38.3	1.3%	38.3	0.2	1.3%	0.55	1.3%	
Window 654 (lower)			0.68	0.47	99.44	0.66	89.8	0.2%	89.8	0.2	0.2%	0.55	0.2%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 654 (upper)			0.68	3.08	99.44	0.66	89.6	3.3%	89.6	0.2	3.3%	0.55	3.3%	
Total ADF for room	Living/Dining/Kitchen	2.0%						6.6%			6.6%		6.6%	
Window 655 (lower)			0.68	0.4	42.05	0.69	89.8	0.4%	89.8	0.2	0.4%	0.55	0.4%	
Window 655 (upper)			0.68	2.66	42.05	0.69	89.6	7.4%	89.6	0.2	7.4%	0.55	7.4%	
Total ADF for room	Bedroom	1.0%						7.8%			7.8%		7.8%	
Window 656 (lower)			0.68	0.4	42.05	0.69	89.8	0.4%	89.8	0.2	0.4%	0.55	0.4%	
Window 656 (upper)			0.68	2.66	42.05	0.69	89.6	7.4%	89.6	0.2	7.4%	0.55	7.4%	
Total ADF for room	Bedroom	1.0%						7.8%			7.8%		7.8%	
Window 657 (lower)			0.68	0.47	99.45	0.66	89.8	0.2%	89.8	0.2	0.2%	0.55	0.2%	
Window 657 (upper)			0.68	3.08	99.45	0.66	89.6	3.3%	89.6	0.2	3.3%	0.55	3.3%	
Window 658 (lower)			0.68	1.38	99.45	0.66	44.2	0.3%	44.2	0.2	0.3%	0.55	0.3%	
Window 658 (upper)			0.68	2.52	99.45	0.66	38.5	1.2%	38.5	0.2	1.2%	0.55	1.2%	
Window 659			0.68	1.37	99.45	0.66	87.8	1.5%	87.8	0.2	1.5%	0.55	1.5%	
Total ADF for room	Living/Dining/Kitchen	2.0%						6.5%			6.5%		6.5%	
Window 660 (lower)			0.68	0.34	63.1	0.71	86.0	0.3%	86.0	0.2	0.3%	0.55	0.3%	
Window 660 (upper)			0.68	2.24	63.1	0.71	87.0	4.2%	87.0	0.2	4.2%	0.55	4.2%	
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%	
Window 661 (lower)			0.68	1.38	57.12	0.69	45.8	0.6%	45.8	0.2	0.6%	0.55	0.6%	
Window 661 (upper)			0.68	2.52	57.12	0.69	40.9	2.3%	40.9	0.2	2.3%	0.55	2.3%	
Total ADF for room	Bedroom	1.0%						2.9%			2.9%		2.9%	
Window 662 (lower)			0.68	0.77	112.2	0.69	29.2	0.1%	29.2	0.2	0.1%	0.55	0.1%	
Window 662 (upper)			0.68	1.4	112.2	0.69	31.2	0.5%	31.2	0.2	0.5%	0.55	0.5%	
Window 663 (lower)			0.68	0.34	112.2	0.69	69.2	0.1%	69.2	0.2	0.1%	0.55	0.1%	
Window 663 (upper)			0.68	2.24	112.2	0.69	71.5	1.8%	71.5	0.2	1.8%	0.55	1.8%	
Total ADF for room	Living/Dining/Kitchen	2.0%						2.5%			2.5%		2.5%	
Window 664 (lower)			0.68	1.38	56.55	0.69	57.9	0.7%	57.9	0.2	0.7%	0.55	0.7%	
Window 664 (upper)			0.68	2.52	56.55	0.69	47.6	2.7%	47.6	0.2	2.7%	0.55	2.7%	
Total ADF for room	Bedroom	1.0%						3.4%			3.4%		3.4%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 665 (lower)			0.68	0.77	113.0	0.69	47.5	0.2%	47.5	0.2	0.2%	0.55	0.2%
Window 665 (upper)			0.68	1.41	113.0	0.69	41.9	0.7%	41.9	0.2	0.7%	0.55	0.7%
Window 666 (lower)			0.68	0.34	113.0	0.69	86.6	0.1%	86.6	0.2	0.1%	0.55	0.1%
Window 666 (upper)			0.68	2.24	113.0	0.69	87.6	2.2%	87.6	0.2	2.2%	0.55	2.2%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.2%			3.2%		3.2%
Window 667 (lower)			0.68	0.34	63.09	0.71	86.6	0.3%	86.6	0.2	0.3%	0.55	0.3%
Window 667 (upper)			0.68	2.24	63.09	0.71	87.6	4.3%	87.6	0.2	4.3%	0.55	4.3%
Total ADF for room	Bedroom	1.0%						4.6%			4.6%		4.6%
Window 668			0.68	1.37	99.43	0.67	87.4	1.5%	87.4	0.2	1.5%	0.55	1.5%
Window 669 (lower)			0.68	1.38	99.43	0.67	52.1	0.4%	52.1	0.2	0.4%	0.55	0.4%
Window 669 (upper)			0.68	2.52	99.43	0.67	41.8	1.3%	41.8	0.2	1.3%	0.55	1.3%
Window 670 (lower)			0.68	0.34	99.43	0.67	71.5	0.1%	71.5	0.2	0.1%	0.55	0.1%
Window 670 (upper)			0.68	2.26	99.43	0.67	73.8	2.1%	73.8	0.2	2.1%	0.55	2.1%
Total ADF for room	Living/Dining/Kitchen	2.0%						5.4%			5.4%		5.4%
Window 671 (lower)			0.68	0.26	42.05	0.71	70.0	0.2%	70.0	0.2	0.2%	0.55	0.2%
Window 671 (upper)			0.68	1.69	42.05	0.71	72.7	4.0%	72.7	0.2	4.0%	0.55	4.0%
Total ADF for room	Bedroom	1.0%						4.2%			4.2%		4.2%
Proposed Block E													
Block E - First Floor													
Window 672 (lower)			0.68	0.29	50.11	0.71	83.8	0.3%	83.8	0.2	0.3%	0.55	0.3%
Window 672 (upper)			0.68	1.69	50.11	0.71	84.5	3.9%	84.5	0.2	3.9%	0.55	3.9%
Total ADF for room	Bedroom	1.0%						4.2%			4.2%		4.2%
Window 673 (lower)			0.68	0.39	97.83	0.67	84.4	0.2%	84.4	0.2	0.2%	0.55	0.2%
Window 673 (upper)			0.68	2.24	97.83	0.67	85.0	2.4%	85.0	0.2	2.4%	0.55	2.4%
Window 674 (lower)			0.68	1.38	97.83	0.67	41.9	0.3%	41.9	0.2	0.3%	0.55	0.3%
Window 674 (upper)			0.68	2.52	97.83	0.67	37.9	1.2%	37.9	0.2	1.2%	0.55	1.2%
Window 675			0.68	1.44	97.83	0.67	88.4	1.6%	88.4	0.2	1.6%	0.55	1.6%
Total ADF for room	Living/Dining/Kitchen	2.0%						5.7%			5.7%		5.7%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 676 (lower)			0.68	0.39	62.37	0.71	88.3	0.3%	88.3	0.2	0.3%	0.55	0.3%
Window 676 (upper)			0.68	2.24	62.37	0.71	88.4	4.4%	88.4	0.2	4.4%	0.55	4.4%
Total ADF for room	Bedroom	1.0%						4.7%			4.7%		4.7%
Window 677 (lower)			0.68	0.39	113.05	0.69	88.3	0.2%	88.3	0.2	0.2%	0.55	0.2%
Window 677 (upper)			0.68	2.24	113.05	0.69	88.3	2.3%	88.3	0.2	2.3%	0.55	2.3%
Window 678 (lower)			0.68	0.77	113.05	0.69	30.3	0.1%	30.3	0.2	0.1%	0.55	0.1%
Window 678 (upper)			0.68	1.41	113.05	0.69	30.5	0.5%	30.5	0.2	0.5%	0.55	0.5%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.1%			3.1%		3.1%
Window 679 (lower)			0.68	1.38	56.55	0.69	40.5	0.5%	40.5	0.2	0.5%	0.55	0.5%
Window 679 (upper)			0.68	2.52	56.55	0.69	40.1	2.3%	40.1	0.2	2.3%	0.55	2.3%
Total ADF for room	Bedroom	1.0%						2.8%			2.8%		2.8%
Window 680 (lower)			0.68	0.39	58.92	0.7	73.4	0.3%	73.4	0.2	0.3%	0.55	0.3%
Window 680 (upper)			0.68	2.24	58.92	0.7	74.2	3.8%	74.2	0.2	3.8%	0.55	3.8%
Total ADF for room	Bedroom	1.0%						4.1%			4.1%		4.1%
Window 681 (lower)			0.68	0.29	93.93	0.67	85.1	0.1%	85.1	0.2	0.1%	0.55	0.1%
Window 681 (upper)			0.68	1.69	93.93	0.67	85.4	1.9%	85.4	0.2	1.9%	0.55	1.9%
Window 682 (lower)			0.68	1.38	93.93	0.67	51.8	0.4%	51.8	0.2	0.4%	0.55	0.4%
Window 682 (upper)			0.68	2.52	93.93	0.67	41.5	1.4%	41.5	0.2	1.4%	0.55	1.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.8%			3.8%		3.8%
Window 683 (lower)			0.68	0.39	111.89	0.69	88.4	0.2%	88.4	0.2	0.2%	0.55	0.2%
Window 683 (upper)			0.68	2.24	111.89	0.69	88.3	2.3%	88.3	0.2	2.3%	0.55	2.3%
Window 684 (lower)			0.68	0.77	111.89	0.69	30.0	0.1%	30.0	0.2	0.1%	0.55	0.1%
Window 684 (upper)			0.68	1.41	111.89	0.69	26.5	0.4%	26.5	0.2	0.4%	0.55	0.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.0%			3.0%		3.0%
Window 685 (lower)			0.68	1.38	54.85	0.68	44.7	0.6%	44.7	0.2	0.6%	0.55	0.6%
Window 685 (upper)			0.68	2.52	54.85	0.68	36.7	2.2%	36.7	0.2	2.2%	0.55	2.2%
Total ADF for room	Bedroom	1.0%						2.8%			2.8%		2.8%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 686 (lower)			0.68	0.39	62.37	0.71	88.1	0.3%	88.1	0.2	0.3%	0.55	0.3%
Window 686 (upper)			0.68	2.24	62.37	0.71	88.0	4.3%	88.0	0.2	4.3%	0.55	4.3%
Total ADF for room	Bedroom	1.0%						4.6%			4.6%		4.6%
Window 687			0.68	1.41	97.83	0.67	88.0	1.5%	88.0	0.2	1.5%	0.55	1.5%
Window 688 (lower)			0.68	1.38	97.83	0.67	42.7	0.3%	42.7	0.2	0.3%	0.55	0.3%
Window 688 (upper)			0.68	2.52	97.83	0.67	33.0	1.0%	33.0	0.2	1.0%	0.55	1.0%
Window 689 (lower)			0.68	0.39	97.83	0.67	46.1	0.1%	46.1	0.2	0.1%	0.55	0.1%
Window 689 (upper)			0.68	2.24	97.83	0.67	46.6	1.3%	46.6	0.2	1.3%	0.55	1.3%
Total ADF for room	Living/Dining/Kitchen	2.0%						4.2%			4.2%		4.2%
Window 690 (lower)			0.68	0.29	50.11	0.71	43.3	0.1%	43.3	0.2	0.1%	0.55	0.1%
Window 690 (upper)			0.68	1.69	50.11	0.71	43.7	2.0%	43.7	0.2	2.0%	0.55	2.0%
Total ADF for room	Bedroom	1.0%						2.1%			2.1%		2.1%
Window 691 (lower)			0.68	0.29	50.11	0.71	43.9	0.1%	43.9	0.2	0.1%	0.55	0.1%
Window 691 (upper)			0.68	1.69	50.11	0.71	44.5	2.1%	44.5	0.2	2.1%	0.55	2.1%
Total ADF for room	Bedroom	1.0%						2.2%			2.2%		2.2%
Window 692 (lower)			0.68	0.39	97.83	0.67	48.1	0.1%	48.1	0.2	0.1%	0.55	0.1%
Window 692 (upper)			0.68	2.24	97.83	0.67	48.6	1.4%	48.6	0.2	1.4%	0.55	1.4%
Window 693 (lower)			0.68	1.38	97.83	0.67	40.7	0.3%	40.7	0.2	0.3%	0.55	0.3%
Window 693 (upper)			0.68	2.52	97.83	0.67	25.3	0.8%	25.3	0.2	0.8%	0.55	0.8%
Window 694			0.68	1.41	97.83	0.67	70.6	1.2%	70.6	0.2	1.2%	0.55	1.2%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.8%			3.8%		3.8%
Window 695 (lower)			0.68	0.39	62.37	0.71	69.0	0.2%	69.0	0.2	0.2%	0.55	0.2%
Window 695 (upper)			0.68	2.24	62.37	0.71	69.6	3.4%	69.6	0.2	3.4%	0.55	3.4%
Total ADF for room	Bedroom	1.0%						3.6%			3.6%		3.6%
Window 696 (lower)			0.68	0.44	98.35	0.69	41.7	0.1%	41.7	0.2	0.1%	0.55	0.1%
Window 696 (upper)			0.68	2.52	98.35	0.69	28.9	1.0%	28.9	0.2	1.0%	0.55	1.0%
Window 697 (lower)			0.68	0.17	98.35	0.69	55.0	0.0%	55.0	0.2	0.0%	0.55	0.0%
Window 697 (upper)			0.68	0.99	98.35	0.69	52.2	0.7%	52.2	0.2	0.7%	0.55	0.7%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees		Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF		
Total ADF for room	Living/Dining/Kitchen	2.0%									1.8%		1.8%		
Window 698 (lower)			0.68	0.17	45.18	0.72	61.2	0.1%	61.2	0.2	0.1%	0.55	0.1%		
Window 698 (upper)			0.68	0.99	45.18	0.72	61.5	1.9%	61.5	0.2	1.9%	0.55	1.9%		
Total ADF for room	Bedroom	1.0%									2.0%		2.0%		
Window 699 (lower)			0.68	0.29	58.07	0.71	49.7	0.1%	49.7	0.2	0.1%	0.55	0.1%		
Window 699 (upper)			0.68	1.69	58.07	0.71	50.3	2.0%	50.3	0.2	2.0%	0.55	2.0%		
Total ADF for room	Bedroom	1.0%									2.1%		2.1%		
Window 700 (lower)			0.68	0.39	62.37	0.71	67.1	0.2%	67.1	0.2	0.2%	0.55	0.2%		
Window 700 (upper)			0.68	2.24	62.37	0.71	68.0	3.4%	68.0	0.2	3.4%	0.55	3.4%		
Total ADF for room	Bedroom	1.0%									3.6%		3.6%		
Window 701			0.68	1.41	97.83	0.67	68.0	1.2%	68.0	0.2	1.2%	0.55	1.2%		
Window 702 (lower)			0.68	1.38	97.83	0.67	34.4	0.2%	34.4	0.2	0.2%	0.55	0.2%		
Window 702 (upper)			0.68	2.52	97.83	0.67	22.9	0.7%	22.9	0.2	0.7%	0.55	0.7%		
Window 703 (lower)			0.68	0.39	97.83	0.67	81.9	0.2%	81.9	0.2	0.2%	0.55	0.2%		
Window 703 (upper)			0.68	2.24	97.83	0.67	82.6	2.3%	82.6	0.2	2.3%	0.55	2.3%		
Total ADF for room	Living/Dining/Kitchen	2.0%									4.6%		4.6%		
Window 704 (lower)			0.68	0.29	50.1	0.71	83.0	0.3%	83.0	0.2	0.3%	0.55	0.3%		
Window 704 (upper)			0.68	1.69	50.1	0.71	83.7	3.9%	83.7	0.2	3.9%	0.55	3.9%		
Total ADF for room	Bedroom	1.0%									4.2%		4.2%		
<u>Block E - Second Floor</u>															
Window 705 (lower)			0.68	0.29	50.11	0.71	85.9	0.3%	85.9	0.2	0.3%	0.55	0.3%		
Window 705 (upper)			0.68	1.69	50.11	0.71	86.2	4.0%	86.2	0.2	4.0%	0.55	4.0%		
Total ADF for room	Bedroom	1.0%									4.3%		4.3%		
Window 706 (lower)			0.68	0.39	97.83	0.67	86.5	0.2%	86.5	0.2	0.2%	0.55	0.2%		
Window 706 (upper)			0.68	2.24	97.83	0.67	86.7	2.4%	86.7	0.2	2.4%	0.55	2.4%		
Window 707 (lower)			0.68	1.38	97.83	0.67	41.9	0.3%	41.9	0.2	0.3%	0.55	0.3%		
Window 707 (upper)			0.68	2.52	97.83	0.67	38.2	1.2%	38.2	0.2	1.2%	0.55	1.2%		

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 708			0.68	1.44	97.83	0.67	89.0	1.6%	89.0	0.2	1.6%	0.55	1.6%	
Total ADF for room	Living/Dining/Kitchen	2.0%						5.7%			5.7%		5.7%	
Window 709 (lower)			0.68	0.39	62.37	0.71	89.0	0.3%	89.0	0.2	0.3%	0.55	0.3%	
Window 709 (upper)			0.68	2.24	62.37	0.71	89.1	4.4%	89.1	0.2	4.4%	0.55	4.4%	
Total ADF for room	Bedroom	1.0%						4.7%			4.7%		4.7%	
Window 710 (lower)			0.68	0.39	113.05	0.69	89.0	0.2%	89.0	0.2	0.2%	0.55	0.2%	
Window 710 (upper)			0.68	2.24	113.05	0.69	89.1	2.3%	89.1	0.2	2.3%	0.55	2.3%	
Window 711 (lower)			0.68	0.77	113.05	0.69	34.7	0.1%	34.7	0.2	0.1%	0.55	0.1%	
Window 711 (upper)			0.68	1.41	113.05	0.69	34.2	0.5%	34.2	0.2	0.5%	0.55	0.5%	
Total ADF for room	Living/Dining/Kitchen	2.0%						3.1%			3.1%		3.1%	
Window 712 (lower)			0.68	1.38	56.55	0.69	45.2	0.6%	45.2	0.2	0.6%	0.55	0.6%	
Window 712 (upper)			0.68	2.52	56.55	0.69	44.3	2.5%	44.3	0.2	2.5%	0.55	2.5%	
Total ADF for room	Bedroom	1.0%						3.1%			3.1%		3.1%	
Window 713 (lower)			0.68	0.39	58.92	0.7	78.7	0.3%	78.7	0.2	0.3%	0.55	0.3%	
Window 713 (upper)			0.68	2.24	58.92	0.7	78.3	4.0%	78.3	0.2	4.0%	0.55	4.0%	
Total ADF for room	Bedroom	1.0%						4.3%			4.3%		4.3%	
Window 714 (lower)			0.68	0.29	93.93	0.67	86.3	0.1%	86.3	0.2	0.1%	0.55	0.1%	
Window 714 (upper)			0.68	1.69	93.93	0.67	86.5	1.9%	86.5	0.2	1.9%	0.55	1.9%	
Window 715 (lower)			0.68	1.38	93.93	0.67	51.8	0.4%	51.8	0.2	0.4%	0.55	0.4%	
Window 715 (upper)			0.68	2.52	93.93	0.67	42.0	1.4%	42.0	0.2	1.4%	0.55	1.4%	
Total ADF for room	Living/Dining/Kitchen	2.0%						3.8%			3.8%		3.8%	
Window 716 (lower)			0.68	0.39	111.89	0.69	88.9	0.2%	88.9	0.2	0.2%	0.55	0.2%	
Window 716 (upper)			0.68	2.24	111.89	0.69	89.3	2.3%	89.3	0.2	2.3%	0.55	2.3%	
Window 717 (lower)			0.68	0.77	111.89	0.69	30.0	0.1%	30.0	0.2	0.1%	0.55	0.1%	
Window 717 (upper)			0.68	1.41	111.89	0.69	26.8	0.4%	26.8	0.2	0.4%	0.55	0.4%	
Total ADF for room	Living/Dining/Kitchen	2.0%						3.0%			3.0%		3.0%	
Window 718 (lower)			0.68	1.38	54.85	0.68	44.7	0.6%	44.7	0.2	0.6%	0.55	0.6%	
Window 718 (upper)			0.68	2.52	54.85	0.68	37.3	2.2%	37.3	0.2	2.2%	0.55	2.2%	

Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees		Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF		
Total ADF for room	Bedroom	1.0%									2.8%		2.8%		2.8%
Window 719 (lower)			0.68	0.39	62.37	0.71	88.8	0.3%	88.8	0.2	0.3%	0.55	0.3%		
Window 719 (upper)			0.68	2.24	62.37	0.71	89.1	4.4%	89.1	0.2	4.4%	0.55	4.4%		
Total ADF for room	Bedroom	1.0%									4.7%		4.7%		4.7%
Window 720			0.68	1.41	97.83	0.67	88.8	1.6%	88.8	0.2	1.6%	0.55	1.6%		
Window 721 (lower)			0.68	1.38	97.83	0.67	42.8	0.3%	42.8	0.2	0.3%	0.55	0.3%		
Window 721 (upper)			0.68	2.52	97.83	0.67	33.7	1.1%	33.7	0.2	1.1%	0.55	1.1%		
Window 722 (lower)			0.68	0.39	97.83	0.67	48.4	0.1%	48.4	0.2	0.1%	0.55	0.1%		
Window 722 (upper)			0.68	2.24	97.83	0.67	49.1	1.4%	49.1	0.2	1.4%	0.55	1.4%		
Total ADF for room	Living/Dining/Kitchen	2.0%									4.5%		4.5%		4.5%
Window 723 (lower)			0.68	0.29	50.11	0.71	45.9	0.1%	45.9	0.2	0.1%	0.55	0.1%		
Window 723 (upper)			0.68	1.69	50.11	0.71	46.7	2.2%	46.7	0.2	2.2%	0.55	2.2%		
Total ADF for room	Bedroom	1.0%									2.3%		2.3%		2.3%
Window 724 (lower)			0.68	0.29	50.11	0.71	46.6	0.2%	46.6	0.2	0.2%	0.55	0.2%		
Window 724 (upper)			0.68	1.69	50.11	0.71	47.4	2.2%	47.4	0.2	2.2%	0.55	2.2%		
Total ADF for room	Bedroom	1.0%									2.4%		2.4%		2.4%
Window 725 (lower)			0.68	0.39	97.83	0.67	50.7	0.1%	50.7	0.2	0.1%	0.55	0.1%		
Window 725 (upper)			0.68	2.24	97.83	0.67	51.4	1.4%	51.4	0.2	1.4%	0.55	1.4%		
Window 726 (lower)			0.68	1.38	97.83	0.67	42.5	0.3%	42.5	0.2	0.3%	0.55	0.3%		
Window 726 (upper)			0.68	2.52	97.83	0.67	28.1	0.9%	28.1	0.2	0.9%	0.55	0.9%		
Window 727			0.68	1.41	97.83	0.67	73.6	1.3%	73.6	0.2	1.3%	0.55	1.3%		
Total ADF for room	Living/Dining/Kitchen	2.0%									4.0%		4.0%		4.0%
Window 728 (lower)			0.68	0.39	62.37	0.71	72.0	0.2%	72.0	0.2	0.2%	0.55	0.2%		
Window 728 (upper)			0.68	2.24	62.37	0.71	72.7	3.6%	72.7	0.2	3.6%	0.55	3.6%		
Total ADF for room	Bedroom	1.0%									3.8%		3.8%		3.8%
Window 729 (lower)			0.68	0.44	98.35	0.69	43.8	0.1%	43.8	0.2	0.1%	0.55	0.1%		
Window 729 (upper)			0.68	2.52	98.35	0.69	31.7	1.0%	31.7	0.2	1.0%	0.55	1.0%		
Window 730 (lower)			0.68	0.17	98.35	0.69	57.4	0.1%	57.4	0.2	0.1%	0.55	0.1%		

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees		Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF		
Window 730 (upper)			0.68	0.99	98.35	0.69	54.8	0.7%	54.8	0.2	0.7%	0.55	0.7%		
Total ADF for room	Living/Dining/Kitchen	2.0%						1.9%			1.9%		1.9%		
Window 731 (lower)			0.68	0.17	45.18	0.72	64.0	0.1%	64.0	0.2	0.1%	0.55	0.1%		
Window 731 (upper)			0.68	0.99	45.18	0.72	64.2	2.0%	64.2	0.2	2.0%	0.55	2.0%		
Total ADF for room	Bedroom	1.0%						2.1%			2.1%		2.1%		
Window 732 (lower)			0.68	0.29	58.07	0.71	51.8	0.1%	51.8	0.2	0.1%	0.55	0.1%		
Window 732 (upper)			0.68	1.69	58.07	0.71	52.4	2.1%	52.4	0.2	2.1%	0.55	2.1%		
Total ADF for room	Bedroom	1.0%						2.2%			2.2%		2.2%		
Window 733 (lower)			0.68	0.39	62.37	0.71	70.3	0.2%	70.3	0.2	0.2%	0.55	0.2%		
Window 733 (upper)			0.68	2.24	62.37	0.71	71.2	3.5%	71.2	0.2	3.5%	0.55	3.5%		
Total ADF for room	Bedroom	1.0%						3.7%			3.7%		3.7%		
Window 734			0.68	1.41	97.83	0.67	71.2	1.3%	71.2	0.2	1.3%	0.55	1.3%		
Window 735 (lower)			0.68	1.38	97.83	0.67	36.5	0.3%	36.5	0.2	0.3%	0.55	0.3%		
Window 735 (upper)			0.68	2.52	97.83	0.67	24.5	0.8%	24.5	0.2	0.8%	0.55	0.8%		
Window 736 (lower)			0.68	0.39	97.83	0.67	84.2	0.2%	84.2	0.2	0.2%	0.55	0.2%		
Window 736 (upper)			0.68	2.24	97.83	0.67	84.5	2.4%	84.5	0.2	2.4%	0.55	2.4%		
Total ADF for room	Living/Dining/Kitchen	2.0%						5.0%			5.0%		5.0%		
Window 737 (lower)			0.68	0.29	50.1	0.71	85.2	0.3%	85.2	0.2	0.3%	0.55	0.3%		
Window 737 (upper)			0.68	1.69	50.1	0.71	85.5	4.0%	85.5	0.2	4.0%	0.55	4.0%		
Total ADF for room	Bedroom	1.0%						4.3%			4.3%		4.3%		
<u>Block E - Third Floor</u>															
Window 738 (lower)			0.68	0.29	50.11	0.71	87.1	0.3%	87.1	0.2	0.3%	0.55	0.3%		
Window 738 (upper)			0.68	1.69	50.11	0.71	87.2	4.1%	87.2	0.2	4.1%	0.55	4.1%		
Total ADF for room	Bedroom	1.0%						4.4%			4.4%		4.4%		
Window 739 (lower)			0.68	0.39	97.83	0.67	87.6	0.2%	87.6	0.2	0.2%	0.55	0.2%		
Window 739 (upper)			0.68	2.24	97.83	0.67	87.6	2.5%	87.6	0.2	2.5%	0.55	2.5%		
Window 740 (lower)			0.68	1.38	97.83	0.67	41.9	0.3%	41.9	0.2	0.3%	0.55	0.3%		

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 740 (upper)			0.68	2.52	97.83	0.67	38.4	1.2%	38.4	0.2	1.2%	0.55	1.2%
Window 741			0.68	1.44	97.83	0.67	89.3	1.6%	89.3	0.2	1.6%	0.55	1.6%
Total ADF for room	Living/Dining/Kitchen	2.0%						5.8%			5.8%		5.8%
Window 742 (lower)			0.68	0.39	62.37	0.71	89.5	0.3%	89.5	0.2	0.3%	0.55	0.3%
Window 742 (upper)			0.68	2.24	62.37	0.71	89.4	4.4%	89.4	0.2	4.4%	0.55	4.4%
Total ADF for room	Bedroom	1.0%						4.7%			4.7%		4.7%
Window 743 (lower)			0.68	0.39	113.05	0.69	89.5	0.2%	89.5	0.2	0.2%	0.55	0.2%
Window 743 (upper)			0.68	2.24	113.05	0.69	89.4	2.3%	89.4	0.2	2.3%	0.55	2.3%
Window 744 (lower)			0.68	0.55	113.05	0.69	36.3	0.1%	36.3	0.2	0.1%	0.55	0.1%
Window 744 (upper)			0.68	1.63	113.05	0.69	34.3	0.6%	34.3	0.2	0.6%	0.55	0.6%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.2%			3.2%		3.2%
Window 745 (lower)			0.68	1.38	56.55	0.69	45.2	0.6%	45.2	0.2	0.6%	0.55	0.6%
Window 745 (upper)			0.68	2.52	56.55	0.69	44.4	2.5%	44.4	0.2	2.5%	0.55	2.5%
Total ADF for room	Bedroom	1.0%						3.1%			3.1%		3.1%
Window 746 (lower)			0.68	0.39	58.92	0.7	79.0	0.3%	79.0	0.2	0.3%	0.55	0.3%
Window 746 (upper)			0.68	2.24	58.92	0.7	78.5	4.0%	78.5	0.2	4.0%	0.55	4.0%
Total ADF for room	Bedroom	1.0%						4.3%			4.3%		4.3%
Window 747 (lower)			0.68	0.29	93.93	0.67	86.8	0.1%	86.8	0.2	0.1%	0.55	0.1%
Window 747 (upper)			0.68	1.69	93.93	0.67	86.8	1.9%	86.8	0.2	1.9%	0.55	1.9%
Window 748 (lower)			0.68	1.38	93.93	0.67	51.8	0.4%	51.8	0.2	0.4%	0.55	0.4%
Window 748 (upper)			0.68	2.52	93.93	0.67	42.1	1.4%	42.1	0.2	1.4%	0.55	1.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.8%			3.8%		3.8%
Window 749 (lower)			0.68	0.39	111.89	0.69	89.5	0.2%	89.5	0.2	0.2%	0.55	0.2%
Window 749 (upper)			0.68	2.24	111.89	0.69	89.4	2.3%	89.4	0.2	2.3%	0.55	2.3%
Window 750 (lower)			0.68	0.77	111.89	0.69	30.0	0.1%	30.0	0.2	0.1%	0.55	0.1%
Window 750 (upper)			0.68	1.41	111.89	0.69	26.8	0.4%	26.8	0.2	0.4%	0.55	0.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.0%			3.0%		3.0%
Window 751 (lower)			0.68	1.38	54.85	0.68	44.7	0.6%	44.7	0.2	0.6%	0.55	0.6%

Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 751 (upper)			0.68	2.52	54.85	0.68	37.4	2.2%	37.4	0.2	2.2%	0.55	2.2%	
Total ADF for room	Bedroom	1.0%						2.8%			2.8%		2.8%	
Window 752 (lower)			0.68	0.39	62.37	0.71	89.3	0.3%	89.3	0.2	0.3%	0.55	0.3%	
Window 752 (upper)			0.68	2.24	62.37	0.71	89.3	4.4%	89.3	0.2	4.4%	0.55	4.4%	
Total ADF for room	Bedroom	1.0%						4.7%			4.7%		4.7%	
Window 753			0.68	1.41	97.83	0.67	89.0	1.6%	89.0	0.2	1.6%	0.55	1.6%	
Window 754 (lower)			0.68	1.38	97.83	0.67	42.9	0.3%	42.9	0.2	0.3%	0.55	0.3%	
Window 754 (upper)			0.68	2.52	97.83	0.67	33.8	1.1%	33.8	0.2	1.1%	0.55	1.1%	
Window 755 (lower)			0.68	0.39	97.83	0.67	51.8	0.1%	51.8	0.2	0.1%	0.55	0.1%	
Window 755 (upper)			0.68	2.24	97.83	0.67	52.9	1.5%	52.9	0.2	1.5%	0.55	1.5%	
Total ADF for room	Living/Dining/Kitchen	2.0%						4.6%			4.6%		4.6%	
Window 756 (lower)			0.68	0.29	50.11	0.71	49.7	0.2%	49.7	0.2	0.2%	0.55	0.2%	
Window 756 (upper)			0.68	1.69	50.11	0.71	50.8	2.4%	50.8	0.2	2.4%	0.55	2.4%	
Total ADF for room	Bedroom	1.0%						2.6%			2.6%		2.6%	
Window 757 (lower)			0.68	0.29	50.11	0.71	50.4	0.2%	50.4	0.2	0.2%	0.55	0.2%	
Window 757 (upper)			0.68	1.69	50.11	0.71	51.7	2.4%	51.7	0.2	2.4%	0.55	2.4%	
Total ADF for room	Bedroom	1.0%						2.6%			2.6%		2.6%	
Window 758 (lower)			0.68	0.39	97.83	0.67	54.3	0.1%	54.3	0.2	0.1%	0.55	0.1%	
Window 758 (upper)			0.68	2.24	97.83	0.67	55.4	1.6%	55.4	0.2	1.6%	0.55	1.6%	
Window 759 (lower)			0.68	1.38	97.83	0.67	44.2	0.3%	44.2	0.2	0.3%	0.55	0.3%	
Window 759 (upper)			0.68	2.52	97.83	0.67	30.8	1.0%	30.8	0.2	1.0%	0.55	1.0%	
Window 760			0.68	1.41	97.83	0.67	76.7	1.4%	76.7	0.2	1.4%	0.55	1.4%	
Total ADF for room	Living/Dining/Kitchen	2.0%						4.4%			4.4%		4.4%	
Window 761 (lower)			0.68	0.39	62.37	0.71	75.0	0.3%	75.0	0.2	0.3%	0.55	0.3%	
Window 761 (upper)			0.68	2.24	62.37	0.71	75.8	3.7%	75.8	0.2	3.7%	0.55	3.7%	
Total ADF for room	Bedroom	1.0%						4.0%			4.0%		4.0%	
Window 762 (lower)			0.68	0.44	98.35	0.69	45.9	0.1%	45.9	0.2	0.1%	0.55	0.1%	
Window 762 (upper)			0.68	2.52	98.35	0.69	34.1	1.1%	34.1	0.2	1.1%	0.55	1.1%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 763 (lower)			0.68	0.17	98.35	0.69	59.7	0.1%	59.7	0.2	0.1%	0.55	0.1%
Window 763 (upper)			0.68	0.99	98.35	0.69	57.3	0.7%	57.3	0.2	0.7%	0.55	0.7%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.0%			2.0%		2.0%
Window 764 (lower)			0.68	0.17	45.18	0.72	66.5	0.1%	66.5	0.2	0.1%	0.55	0.1%
Window 764 (upper)			0.68	0.99	45.18	0.72	66.8	2.1%	66.8	0.2	2.1%	0.55	2.1%
Total ADF for room	Bedroom	1.0%						2.2%			2.2%		2.2%
Window 765 (lower)			0.68	0.29	58.07	0.71	53.9	0.1%	53.9	0.2	0.1%	0.55	0.1%
Window 765 (upper)			0.68	1.69	58.07	0.71	54.5	2.2%	54.5	0.2	2.2%	0.55	2.2%
Total ADF for room	Bedroom	1.0%						2.3%			2.3%		2.3%
Window 766 (lower)			0.68	0.39	62.37	0.71	73.7	0.3%	73.7	0.2	0.3%	0.55	0.3%
Window 766 (upper)			0.68	2.24	62.37	0.71	74.5	3.7%	74.5	0.2	3.7%	0.55	3.7%
Total ADF for room	Bedroom	1.0%						4.0%			4.0%		4.0%
Window 767			0.68	1.41	97.83	0.67	74.7	1.3%	74.7	0.2	1.3%	0.55	1.3%
Window 768 (lower)			0.68	1.38	97.83	0.67	38.6	0.3%	38.6	0.2	0.3%	0.55	0.3%
Window 768 (upper)			0.68	2.52	97.83	0.67	27.5	0.9%	27.5	0.2	0.9%	0.55	0.9%
Window 769 (lower)			0.68	0.39	97.83	0.67	85.6	0.2%	85.6	0.2	0.2%	0.55	0.2%
Window 769 (upper)			0.68	2.24	97.83	0.67	85.7	2.4%	85.7	0.2	2.4%	0.55	2.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						5.1%			5.1%		5.1%
Window 770 (lower)			0.68	0.29	50.1	0.71	86.5	0.3%	86.5	0.2	0.3%	0.55	0.3%
Window 770 (upper)			0.68	1.69	50.1	0.71	86.6	4.0%	86.6	0.2	4.0%	0.55	4.0%
Total ADF for room	Bedroom	1.0%						4.3%			4.3%		4.3%
<u>Block E - Fourth Floor</u>													
Window 771 (lower)			0.68	0.29	50.11	0.71	87.8	0.3%	87.8	0.2	0.3%	0.55	0.3%
Window 771 (upper)			0.68	1.69	50.11	0.71	87.9	4.1%	87.9	0.2	4.1%	0.55	4.1%
Total ADF for room	Bedroom	1.0%						4.4%			4.4%		4.4%
Window 772 (lower)			0.68	0.39	97.83	0.67	88.2	0.2%	88.2	0.2	0.2%	0.55	0.2%
Window 772 (upper)			0.68	2.24	97.83	0.67	88.2	2.5%	88.2	0.2	2.5%	0.55	2.5%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 773 (lower)			0.68	1.38	97.83	0.67	41.9	0.3%	41.9	0.2	0.3%	0.55	0.3%
Window 773 (upper)			0.68	2.52	97.83	0.67	38.5	1.2%	38.5	0.2	1.2%	0.55	1.2%
Window 774			0.68	1.44	97.83	0.67	89.4	1.6%	89.4	0.2	1.6%	0.55	1.6%
Total ADF for room	Living/Dining/Kitchen	2.0%						5.8%			5.8%		5.8%
Window 775 (lower)			0.68	0.39	62.37	0.71	89.7	0.3%	89.7	0.2	0.3%	0.55	0.3%
Window 775 (upper)			0.68	2.24	62.37	0.71	89.5	4.4%	89.5	0.2	4.4%	0.55	4.4%
Total ADF for room	Bedroom	1.0%						4.7%			4.7%		4.7%
Window 776 (lower)			0.68	0.39	113.05	0.69	89.7	0.2%	89.7	0.2	0.2%	0.55	0.2%
Window 776 (upper)			0.68	2.24	113.05	0.69	89.5	2.3%	89.5	0.2	2.3%	0.55	2.3%
Window 777 (lower)			0.68	0.77	113.05	0.69	34.7	0.1%	34.7	0.2	0.1%	0.55	0.1%
Window 777 (upper)			0.68	1.41	113.05	0.69	34.2	0.5%	34.2	0.2	0.5%	0.55	0.5%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.1%			3.1%		3.1%
Window 778 (lower)			0.68	1.38	56.55	0.69	45.2	0.6%	45.2	0.2	0.6%	0.55	0.6%
Window 778 (upper)			0.68	2.52	56.55	0.69	44.4	2.5%	44.4	0.2	2.5%	0.55	2.5%
Total ADF for room	Bedroom	1.0%						3.1%			3.1%		3.1%
Window 779 (lower)			0.68	0.39	58.92	0.7	79.1	0.3%	79.1	0.2	0.3%	0.55	0.3%
Window 779 (upper)			0.68	2.24	58.92	0.7	78.5	4.0%	78.5	0.2	4.0%	0.55	4.0%
Total ADF for room	Bedroom	1.0%						4.3%			4.3%		4.3%
Window 780 (lower)			0.68	0.29	93.93	0.67	87.0	0.1%	87.0	0.2	0.1%	0.55	0.1%
Window 780 (upper)			0.68	1.69	93.93	0.67	86.9	1.9%	86.9	0.2	1.9%	0.55	1.9%
Window 781 (lower)			0.68	1.38	93.93	0.67	51.8	0.4%	51.8	0.2	0.4%	0.55	0.4%
Window 781 (upper)			0.68	2.52	93.93	0.67	42.1	1.4%	42.1	0.2	1.4%	0.55	1.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.8%			3.8%		3.8%
Window 782 (lower)			0.68	0.39	111.89	0.69	89.6	0.2%	89.6	0.2	0.2%	0.55	0.2%
Window 782 (upper)			0.68	2.24	111.89	0.69	89.5	2.3%	89.5	0.2	2.3%	0.55	2.3%
Window 783 (lower)			0.68	0.77	111.89	0.69	30.0	0.1%	30.0	0.2	0.1%	0.55	0.1%
Window 783 (upper)			0.68	1.41	111.89	0.69	26.8	0.4%	26.8	0.2	0.4%	0.55	0.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.0%			3.0%		3.0%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 784 (lower)			0.68	1.38	54.85	0.68	44.7	0.6%	44.7	0.2	0.6%	0.55	0.6%
Window 784 (upper)			0.68	2.52	54.85	0.68	37.4	2.2%	37.4	0.2	2.2%	0.55	2.2%
Total ADF for room	Bedroom	1.0%						2.8%			2.8%		2.8%
Window 785 (lower)			0.68	0.39	62.37	0.71	89.5	0.3%	89.5	0.2	0.3%	0.55	0.3%
Window 785 (upper)			0.68	2.24	62.37	0.71	89.4	4.4%	89.4	0.2	4.4%	0.55	4.4%
Total ADF for room	Bedroom	1.0%						4.7%			4.7%		4.7%
Window 786			0.68	1.41	97.83	0.67	89.2	1.6%	89.2	0.2	1.6%	0.55	1.6%
Window 787 (lower)			0.68	1.38	97.83	0.67	43.1	0.3%	43.1	0.2	0.3%	0.55	0.3%
Window 787 (upper)			0.68	2.52	97.83	0.67	33.8	1.1%	33.8	0.2	1.1%	0.55	1.1%
Window 788 (lower)			0.68	0.39	97.83	0.67	56.9	0.1%	56.9	0.2	0.1%	0.55	0.1%
Window 788 (upper)			0.68	2.24	97.83	0.67	58.8	1.6%	58.8	0.2	1.6%	0.55	1.6%
Total ADF for room	Living/Dining/Kitchen	2.0%						4.7%			4.7%		4.7%
Window 789 (lower)			0.68	0.29	50.11	0.71	55.2	0.2%	55.2	0.2	0.2%	0.55	0.2%
Window 789 (upper)			0.68	1.69	50.11	0.71	57.2	2.7%	57.2	0.2	2.7%	0.55	2.7%
Total ADF for room	Bedroom	1.0%						2.9%			2.9%		2.9%
Window 790 (lower)			0.68	0.29	50.11	0.71	56.1	0.2%	56.1	0.2	0.2%	0.55	0.2%
Window 790 (upper)			0.68	1.69	50.11	0.71	58.0	2.7%	58.0	0.2	2.7%	0.55	2.7%
Total ADF for room	Bedroom	1.0%						2.9%			2.9%		2.9%
Window 791 (lower)			0.68	0.39	97.83	0.67	59.5	0.1%	59.5	0.2	0.1%	0.55	0.1%
Window 791 (upper)			0.68	2.24	97.83	0.67	61.4	1.7%	61.4	0.2	1.7%	0.55	1.7%
Window 792 (lower)			0.68	1.38	97.83	0.67	45.8	0.3%	45.8	0.2	0.3%	0.55	0.3%
Window 792 (upper)			0.68	2.52	97.83	0.67	33.2	1.0%	33.2	0.2	1.0%	0.55	1.0%
Window 793			0.68	1.41	97.83	0.67	79.9	1.4%	79.9	0.2	1.4%	0.55	1.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						4.5%			4.5%		4.5%
Window 794 (lower)			0.68	0.39	62.37	0.71	78.2	0.3%	78.2	0.2	0.3%	0.55	0.3%
Window 794 (upper)			0.68	2.24	62.37	0.71	79.0	3.9%	79.0	0.2	3.9%	0.55	3.9%
Total ADF for room	Bedroom	1.0%						4.2%			4.2%		4.2%
Window 795 (lower)			0.68	0.44	98.35	0.69	47.8	0.1%	47.8	0.2	0.1%	0.55	0.1%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 795 (upper)			0.68	2.52	98.35	0.69	36.3	1.2%	36.3	0.2	1.2%	0.55	1.2%
Window 796 (lower)			0.68	0.17	98.35	0.69	62.0	0.1%	62.0	0.2	0.1%	0.55	0.1%
Window 796 (upper)			0.68	0.99	98.35	0.69	59.8	0.8%	59.8	0.2	0.8%	0.55	0.8%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.2%			2.2%		2.2%
Window 797 (lower)			0.68	0.17	45.18	0.72	69.2	0.2%	69.2	0.2	0.2%	0.55	0.2%
Window 797 (upper)			0.68	0.99	45.18	0.72	69.6	2.2%	69.6	0.2	2.2%	0.55	2.2%
Total ADF for room	Bedroom	1.0%						2.4%			2.4%		2.4%
Window 798 (lower)			0.68	0.29	58.07	0.71	56.2	0.2%	56.2	0.2	0.2%	0.55	0.2%
Window 798 (upper)			0.68	1.69	58.07	0.71	56.8	2.3%	56.8	0.2	2.3%	0.55	2.3%
Total ADF for room	Bedroom	1.0%						2.5%			2.5%		2.5%
Window 799 (lower)			0.68	0.39	62.37	0.71	77.4	0.3%	77.4	0.2	0.3%	0.55	0.3%
Window 799 (upper)			0.68	2.24	62.37	0.71	78.4	3.9%	78.4	0.2	3.9%	0.55	3.9%
Total ADF for room	Bedroom	1.0%						4.2%			4.2%		4.2%
Window 800			0.68	1.41	97.83	0.67	78.5	1.4%	78.5	0.2	1.4%	0.55	1.4%
Window 801 (lower)			0.68	1.38	97.83	0.67	40.6	0.3%	40.6	0.2	0.3%	0.55	0.3%
Window 801 (upper)			0.68	2.52	97.83	0.67	30.7	1.0%	30.7	0.2	1.0%	0.55	1.0%
Window 802 (lower)			0.68	0.39	97.83	0.67	86.7	0.2%	86.7	0.2	0.2%	0.55	0.2%
Window 802 (upper)			0.68	2.24	97.83	0.67	86.8	2.4%	86.8	0.2	2.4%	0.55	2.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						5.3%			5.3%		5.3%
Window 803 (lower)			0.68	0.29	50.1	0.71	87.3	0.3%	87.3	0.2	0.3%	0.55	0.3%
Window 803 (upper)			0.68	1.69	50.1	0.71	87.4	4.1%	87.4	0.2	4.1%	0.55	4.1%
Total ADF for room	Bedroom	1.0%						4.4%			4.4%		4.4%
<u>Block E - Fifth Floor</u>													
Window 804 (lower)			0.68	0.29	50.11	0.71	88.4	0.3%	88.4	0.2	0.3%	0.55	0.3%
Window 804 (upper)			0.68	1.69	50.11	0.71	88.4	4.1%	88.4	0.2	4.1%	0.55	4.1%
Total ADF for room	Bedroom	1.0%						4.4%			4.4%		4.4%
Window 805 (lower)			0.68	0.39	97.83	0.67	88.8	0.2%	88.8	0.2	0.2%	0.55	0.2%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 805 (upper)			0.68	2.24	97.83	0.67	88.7	2.5%	88.7	0.2	2.5%	0.55	2.5%
Window 806 (lower)			0.68	1.38	97.83	0.67	41.9	0.3%	41.9	0.2	0.3%	0.55	0.3%
Window 806 (upper)			0.68	2.52	97.83	0.67	38.6	1.2%	38.6	0.2	1.2%	0.55	1.2%
Window 807			0.68	1.44	97.83	0.67	89.4	1.6%	89.4	0.2	1.6%	0.55	1.6%
Total ADF for room	Living/Dining/Kitchen	2.0%						5.8%			5.8%		5.8%
Window 808 (lower)			0.68	0.39	62.37	0.71	89.8	0.3%	89.8	0.2	0.3%	0.55	0.3%
Window 808 (upper)			0.68	2.24	62.37	0.71	89.6	4.4%	89.6	0.2	4.4%	0.55	4.4%
Total ADF for room	Bedroom	1.0%						4.7%			4.7%		4.7%
Window 809 (lower)			0.68	0.39	113.05	0.69	89.7	0.2%	89.7	0.2	0.2%	0.55	0.2%
Window 809 (upper)			0.68	2.24	113.05	0.69	89.5	2.3%	89.5	0.2	2.3%	0.55	2.3%
Window 810 (lower)			0.68	0.77	113.05	0.69	34.7	0.1%	34.7	0.2	0.1%	0.55	0.1%
Window 810 (upper)			0.68	1.41	113.05	0.69	34.2	0.5%	34.2	0.2	0.5%	0.55	0.5%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.1%			3.1%		3.1%
Window 811 (lower)			0.68	1.38	56.55	0.69	45.2	0.6%	45.2	0.2	0.6%	0.55	0.6%
Window 811 (upper)			0.68	2.52	56.55	0.69	44.4	2.5%	44.4	0.2	2.5%	0.55	2.5%
Total ADF for room	Bedroom	1.0%						3.1%			3.1%		3.1%
Window 812 (lower)			0.68	0.39	58.92	0.7	79.1	0.3%	79.1	0.2	0.3%	0.55	0.3%
Window 812 (upper)			0.68	2.24	58.92	0.7	78.6	4.0%	78.6	0.2	4.0%	0.55	4.0%
Total ADF for room	Bedroom	1.0%						4.3%			4.3%		4.3%
Window 813 (lower)			0.68	0.29	93.93	0.67	87.1	0.1%	87.1	0.2	0.1%	0.55	0.1%
Window 813 (upper)			0.68	1.69	93.93	0.67	86.9	1.9%	86.9	0.2	1.9%	0.55	1.9%
Window 814 (lower)			0.68	1.38	93.93	0.67	51.8	0.4%	51.8	0.2	0.4%	0.55	0.4%
Window 814 (upper)			0.68	2.52	93.93	0.67	42.1	1.4%	42.1	0.2	1.4%	0.55	1.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.8%			3.8%		3.8%
Window 815 (lower)			0.68	0.39	111.89	0.69	89.7	0.2%	89.7	0.2	0.2%	0.55	0.2%
Window 815 (upper)			0.68	2.24	111.89	0.69	89.5	2.3%	89.5	0.2	2.3%	0.55	2.3%
Window 816 (lower)			0.68	0.77	111.89	0.69	30.0	0.1%	30.0	0.2	0.1%	0.55	0.1%
Window 816 (upper)			0.68	1.41	111.89	0.69	26.8	0.4%	26.8	0.2	0.4%	0.55	0.4%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Total ADF for room	Living/Dining/Kitchen	2.0%									3.0%		3.0%	
Window 817 (lower)			0.68	1.38	54.85	0.68	44.7	0.6%	44.7	0.2	0.6%	0.55	0.6%	
Window 817 (upper)			0.68	2.52	54.85	0.68	37.4	2.2%	37.4	0.2	2.2%	0.55	2.2%	
Total ADF for room	Bedroom	1.0%									2.8%		2.8%	
Window 818 (lower)			0.68	0.39	62.37	0.71	89.6	0.3%	89.6	0.2	0.3%	0.55	0.3%	
Window 818 (upper)			0.68	2.24	62.37	0.71	89.5	4.4%	89.5	0.2	4.4%	0.55	4.4%	
Total ADF for room	Bedroom	1.0%									4.7%		4.7%	
Window 819			0.68	1.41	97.83	0.67	89.3	1.6%	89.3	0.2	1.6%	0.55	1.6%	
Window 820 (lower)			0.68	1.38	97.83	0.67	43.4	0.3%	43.4	0.2	0.3%	0.55	0.3%	
Window 820 (upper)			0.68	2.52	97.83	0.67	34.1	1.1%	34.1	0.2	1.1%	0.55	1.1%	
Window 821 (lower)			0.68	0.39	97.83	0.67	64.8	0.1%	64.8	0.2	0.1%	0.55	0.1%	
Window 821 (upper)			0.68	2.24	97.83	0.67	67.6	1.9%	67.6	0.2	1.9%	0.55	1.9%	
Total ADF for room	Living/Dining/Kitchen	2.0%									5.0%		5.0%	
Window 822 (lower)			0.68	0.29	50.11	0.71	63.6	0.2%	63.6	0.2	0.2%	0.55	0.2%	
Window 822 (upper)			0.68	1.69	50.11	0.71	66.5	3.1%	66.5	0.2	3.1%	0.55	3.1%	
Total ADF for room	Bedroom	1.0%									3.3%		3.3%	
Window 823 (lower)			0.68	0.29	50.11	0.71	64.4	0.2%	64.4	0.2	0.2%	0.55	0.2%	
Window 823 (upper)			0.68	1.69	50.11	0.71	67.2	3.1%	67.2	0.2	3.1%	0.55	3.1%	
Total ADF for room	Bedroom	1.0%									3.3%		3.3%	
Window 824 (lower)			0.68	0.39	97.83	0.67	67.3	0.1%	67.3	0.2	0.1%	0.55	0.1%	
Window 824 (upper)			0.68	2.24	97.83	0.67	69.8	2.0%	69.8	0.2	2.0%	0.55	2.0%	
Window 825 (lower)			0.68	1.38	97.83	0.67	47.3	0.3%	47.3	0.2	0.3%	0.55	0.3%	
Window 825 (upper)			0.68	2.52	97.83	0.67	35.5	1.1%	35.5	0.2	1.1%	0.55	1.1%	
Window 826			0.68	1.41	97.83	0.67	83.2	1.5%	83.2	0.2	1.5%	0.55	1.5%	
Total ADF for room	Living/Dining/Kitchen	2.0%									5.0%		5.0%	
Window 827 (lower)			0.68	0.39	62.37	0.71	81.4	0.3%	81.4	0.2	0.3%	0.55	0.3%	
Window 827 (upper)			0.68	2.24	62.37	0.71	82.3	4.1%	82.3	0.2	4.1%	0.55	4.1%	
Total ADF for room	Bedroom	1.0%									4.4%		4.4%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 828 (lower)			0.68	0.44	98.35	0.69	49.6	0.1%	49.6	0.2	0.1%	0.55	0.1%
Window 828 (upper)			0.68	2.52	98.35	0.69	38.5	1.3%	38.5	0.2	1.3%	0.55	1.3%
Window 829 (lower)			0.68	0.17	98.35	0.69	64.5	0.1%	64.5	0.2	0.1%	0.55	0.1%
Window 829 (upper)			0.68	0.99	98.35	0.69	62.7	0.8%	62.7	0.2	0.8%	0.55	0.8%
Total ADF for room	Living/Dining/Kitchen	2.0%						2.3%			2.3%		2.3%
Window 830 (lower)			0.68	0.17	45.18	0.72	72.3	0.2%	72.3	0.2	0.2%	0.55	0.2%
Window 830 (upper)			0.68	0.99	45.18	0.72	72.9	2.3%	72.9	0.2	2.3%	0.55	2.3%
Total ADF for room	Bedroom	1.0%						2.5%			2.5%		2.5%
Window 831 (lower)			0.68	0.29	58.07	0.71	58.6	0.2%	58.6	0.2	0.2%	0.55	0.2%
Window 831 (upper)			0.68	1.69	58.07	0.71	59.3	2.4%	59.3	0.2	2.4%	0.55	2.4%
Total ADF for room	Bedroom	1.0%						2.6%			2.6%		2.6%
Window 832 (lower)			0.68	0.39	62.37	0.71	81.2	0.3%	81.2	0.2	0.3%	0.55	0.3%
Window 832 (upper)			0.68	2.24	62.37	0.71	82.2	4.1%	82.2	0.2	4.1%	0.55	4.1%
Total ADF for room	Bedroom	1.0%						4.4%			4.4%		4.4%
Window 833			0.68	1.41	97.83	0.67	82.4	1.5%	82.4	0.2	1.5%	0.55	1.5%
Window 834 (lower)			0.68	1.38	97.83	0.67	41.9	0.3%	41.9	0.2	0.3%	0.55	0.3%
Window 834 (upper)			0.68	2.52	97.83	0.67	33.8	1.1%	33.8	0.2	1.1%	0.55	1.1%
Window 835 (lower)			0.68	0.39	97.83	0.67	87.7	0.2%	87.7	0.2	0.2%	0.55	0.2%
Window 835 (upper)			0.68	2.24	97.83	0.67	87.8	2.5%	87.8	0.2	2.5%	0.55	2.5%
Total ADF for room	Living/Dining/Kitchen	2.0%						5.6%			5.6%		5.6%
Window 836 (lower)			0.68	0.29	50.1	0.71	88.1	0.3%	88.1	0.2	0.3%	0.55	0.3%
Window 836 (upper)			0.68	1.69	50.1	0.71	88.2	4.1%	88.2	0.2	4.1%	0.55	4.1%
Total ADF for room	Bedroom	1.0%						4.4%			4.4%		4.4%
<u>Block E - Sixth Floor</u>													
Window 837 (lower)			0.68	0.29	50.11	0.71	89.0	0.3%	89.0	0.2	0.3%	0.55	0.3%
Window 837 (upper)			0.68	1.69	50.11	0.71	89.0	4.1%	89.0	0.2	4.1%	0.55	4.1%
Total ADF for room	Bedroom	1.0%						4.4%			4.4%		4.4%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees		Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 838 (lower)			0.68	0.39	97.83	0.67	89.2	0.2%	89.2	0.2	0.2%	0.55	0.2%	
Window 838 (upper)			0.68	2.24	97.83	0.67	89.1	2.5%	89.1	0.2	2.5%	0.55	2.5%	
Window 839 (lower)			0.68	1.38	97.83	0.67	41.9	0.3%	41.9	0.2	0.3%	0.55	0.3%	
Window 839 (upper)			0.68	2.52	97.83	0.67	38.6	1.2%	38.6	0.2	1.2%	0.55	1.2%	
Window 840			0.68	1.44	97.83	0.67	89.4	1.6%	89.4	0.2	1.6%	0.55	1.6%	
Total ADF for room	Living/Dining/Kitchen	2.0%						5.8%			5.8%		5.8%	
Window 841 (lower)			0.68	0.39	62.37	0.71	89.8	0.3%	89.8	0.2	0.3%	0.55	0.3%	
Window 841 (upper)			0.68	2.24	62.37	0.71	89.6	4.4%	89.6	0.2	4.4%	0.55	4.4%	
Total ADF for room	Bedroom	1.0%						4.7%			4.7%		4.7%	
Window 842 (lower)			0.68	0.39	113.05	0.69	89.7	0.2%	89.7	0.2	0.2%	0.55	0.2%	
Window 842 (upper)			0.68	2.24	113.05	0.69	89.5	2.3%	89.5	0.2	2.3%	0.55	2.3%	
Window 843 (lower)			0.68	0.77	113.05	0.69	34.9	0.1%	34.9	0.2	0.1%	0.55	0.1%	
Window 843 (upper)			0.68	1.41	113.05	0.69	34.3	0.6%	34.3	0.2	0.6%	0.55	0.6%	
Total ADF for room	Living/Dining/Kitchen	2.0%						3.2%			3.2%		3.2%	
Window 844 (lower)			0.68	1.38	56.55	0.69	45.2	0.6%	45.2	0.2	0.6%	0.55	0.6%	
Window 844 (upper)			0.68	2.52	56.55	0.69	44.4	2.5%	44.4	0.2	2.5%	0.55	2.5%	
Total ADF for room	Bedroom	1.0%						3.1%			3.1%		3.1%	
Window 845 (lower)			0.68	0.39	58.92	0.7	79.2	0.3%	79.2	0.2	0.3%	0.55	0.3%	
Window 845 (upper)			0.68	2.24	58.92	0.7	78.6	4.0%	78.6	0.2	4.0%	0.55	4.0%	
Total ADF for room	Bedroom	1.0%						4.3%			4.3%		4.3%	
Window 846 (lower)			0.68	0.29	93.93	0.67	87.2	0.1%	87.2	0.2	0.1%	0.55	0.1%	
Window 846 (upper)			0.68	1.69	93.93	0.67	87.0	1.9%	87.0	0.2	1.9%	0.55	1.9%	
Window 847 (lower)			0.68	1.38	93.93	0.67	51.8	0.4%	51.8	0.2	0.4%	0.55	0.4%	
Window 847 (upper)			0.68	2.52	93.93	0.67	42.1	1.4%	42.1	0.2	1.4%	0.55	1.4%	
Total ADF for room	Living/Dining/Kitchen	2.0%						3.8%			3.8%		3.8%	
Window 848 (lower)			0.68	0.39	111.89	0.69	89.7	0.2%	89.7	0.2	0.2%	0.55	0.2%	
Window 848 (upper)			0.68	2.24	111.89	0.69	89.6	2.3%	89.6	0.2	2.3%	0.55	2.3%	
Window 849 (lower)			0.68	0.77	111.89	0.69	30.0	0.1%	30.0	0.2	0.1%	0.55	0.1%	

Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						Trees				
	Primary room use	ADF	T	Aw	A	R	θ	ADF	$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 849 (upper)			0.68	1.41	111.89	0.69	26.8	0.4%	26.8	0.2	0.4%	0.55	0.4%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.0%			3.0%		3.0%
Window 850 (lower)			0.68	1.38	54.85	0.68	44.7	0.6%	44.7	0.2	0.6%	0.55	0.6%
Window 850 (upper)			0.68	2.52	54.85	0.68	37.4	2.2%	37.4	0.2	2.2%	0.55	2.2%
Total ADF for room	Bedroom	1.0%						2.8%			2.8%		2.8%
Window 851 (lower)			0.68	0.39	62.37	0.71	89.7	0.3%	89.7	0.2	0.3%	0.55	0.3%
Window 851 (upper)			0.68	2.24	62.37	0.71	89.5	4.4%	89.5	0.2	4.4%	0.55	4.4%
Total ADF for room	Bedroom	1.0%						4.7%			4.7%		4.7%
Window 852			0.68	1.41	97.83	0.67	89.3	1.6%	89.3	0.2	1.6%	0.55	1.6%
Window 853 (lower)			0.68	1.38	97.83	0.67	43.6	0.3%	43.6	0.2	0.3%	0.55	0.3%
Window 853 (upper)			0.68	2.52	97.83	0.67	34.5	1.1%	34.5	0.2	1.1%	0.55	1.1%
Window 854 (lower)			0.68	0.39	97.83	0.67	76.1	0.1%	76.1	0.2	0.1%	0.55	0.1%
Window 854 (upper)			0.68	2.24	97.83	0.67	79.9	2.2%	79.9	0.2	2.2%	0.55	2.2%
Total ADF for room	Living/Dining/Kitchen	2.0%						5.3%			5.3%		5.3%
Window 855 (lower)			0.68	0.29	50.11	0.71	75.5	0.2%	75.5	0.2	0.2%	0.55	0.2%
Window 855 (upper)			0.68	1.69	50.11	0.71	79.3	3.7%	79.3	0.2	3.7%	0.55	3.7%
Total ADF for room	Bedroom	1.0%						3.9%			3.9%		3.9%
Window 856 (lower)			0.68	0.29	50.11	0.71	75.9	0.2%	75.9	0.2	0.2%	0.55	0.2%
Window 856 (upper)			0.68	1.69	50.11	0.71	79.7	3.7%	79.7	0.2	3.7%	0.55	3.7%
Total ADF for room	Bedroom	1.0%						3.9%			3.9%		3.9%
Window 857 (lower)			0.68	0.39	97.83	0.67	77.7	0.2%	77.7	0.2	0.2%	0.55	0.2%
Window 857 (upper)			0.68	2.24	97.83	0.67	81.0	2.3%	81.0	0.2	2.3%	0.55	2.3%
Window 858 (lower)			0.68	1.38	97.83	0.67	55.5	0.4%	55.5	0.2	0.4%	0.55	0.4%
Window 858 (upper)			0.68	2.52	97.83	0.67	46.0	1.5%	46.0	0.2	1.5%	0.55	1.5%
Window 859			0.68	1.41	97.83	0.67	86.1	1.5%	86.1	0.2	1.5%	0.55	1.5%
Total ADF for room	Living/Dining/Kitchen	2.0%						5.9%			5.9%		5.9%
Window 860 (lower)			0.68	0.39	62.37	0.71	84.6	0.3%	84.6	0.2	0.3%	0.55	0.3%
Window 860 (upper)			0.68	2.24	62.37	0.71	85.4	4.2%	85.4	0.2	4.2%	0.55	4.2%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Total ADF for room	Bedroom	1.0%									4.5%		4.5%
Window 861 (lower)			0.68	0.44	98.35	0.69	54.9	0.1%	54.9	0.2	0.1%	0.55	0.1%
Window 861 (upper)			0.68	2.52	98.35	0.69	45.2	1.5%	45.2	0.2	1.5%	0.55	1.5%
Window 862 (lower)			0.68	0.17	98.35	0.69	69.7	0.1%	69.7	0.2	0.1%	0.55	0.1%
Window 862 (upper)			0.68	0.99	98.35	0.69	70.0	0.9%	70.0	0.2	0.9%	0.55	0.9%
Total ADF for room	Living/Dining/Kitchen	2.0%									2.6%		2.6%
Window 863 (lower)			0.68	0.17	45.18	0.72	76.5	0.2%	76.5	0.2	0.2%	0.55	0.2%
Window 863 (upper)			0.68	0.99	45.18	0.72	78.1	2.4%	78.1	0.2	2.4%	0.55	2.4%
Total ADF for room	Bedroom	1.0%									2.6%		2.6%
Window 864 (lower)			0.68	0.29	58.07	0.71	61.1	0.2%	61.1	0.2	0.2%	0.55	0.2%
Window 864 (upper)			0.68	1.69	58.07	0.71	61.8	2.5%	61.8	0.2	2.5%	0.55	2.5%
Total ADF for room	Bedroom	1.0%									2.7%		2.7%
Window 865 (lower)			0.68	0.39	62.37	0.71	85.1	0.3%	85.1	0.2	0.3%	0.55	0.3%
Window 865 (upper)			0.68	2.24	62.37	0.71	86.0	4.2%	86.0	0.2	4.2%	0.55	4.2%
Total ADF for room	Bedroom	1.0%									4.5%		4.5%
Window 866			0.68	1.41	97.83	0.67	86.1	1.5%	86.1	0.2	1.5%	0.55	1.5%
Window 867 (lower)			0.68	1.38	97.83	0.67	41.9	0.3%	41.9	0.2	0.3%	0.55	0.3%
Window 867 (upper)			0.68	2.52	97.83	0.67	36.2	1.1%	36.2	0.2	1.1%	0.55	1.1%
Window 868 (lower)			0.68	0.39	97.83	0.67	88.7	0.2%	88.7	0.2	0.2%	0.55	0.2%
Window 868 (upper)			0.68	2.24	97.83	0.67	88.7	2.5%	88.7	0.2	2.5%	0.55	2.5%
Total ADF for room	Living/Dining/Kitchen	2.0%									5.6%		5.6%
Window 869 (lower)			0.68	0.29	50.1	0.71	88.8	0.3%	88.8	0.2	0.3%	0.55	0.3%
Window 869 (upper)			0.68	1.69	50.1	0.71	88.9	4.1%	88.9	0.2	4.1%	0.55	4.1%
Total ADF for room	Bedroom	1.0%									4.4%		4.4%
<u>Block E - Seventh Floor</u>													
Window 870 (lower)			0.68	0.29	50.11	0.71	89.4	0.3%	89.4	0.2	0.3%	0.55	0.3%
Window 870 (upper)			0.68	1.69	50.11	0.71	89.4	4.2%	89.4	0.2	4.2%	0.55	4.2%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Total ADF for room	Bedroom	1.0%									4.5%		4.5%
Window 871 (lower)			0.68	0.39	97.83	0.67	89.6	0.2%	89.6	0.2	0.2%	0.55	0.2%
Window 871 (upper)			0.68	2.24	97.83	0.67	89.5	2.5%	89.5	0.2	2.5%	0.55	2.5%
Window 872 (lower)			0.68	1.38	97.83	0.67	41.9	0.3%	41.9	0.2	0.3%	0.55	0.3%
Window 872 (upper)			0.68	2.52	97.83	0.67	38.6	1.2%	38.6	0.2	1.2%	0.55	1.2%
Window 873			0.68	1.44	97.83	0.67	89.4	1.6%	89.4	0.2	1.6%	0.55	1.6%
Total ADF for room	Living/Dining/Kitchen	2.0%									5.8%		5.8%
Window 874 (lower)			0.68	0.39	62.37	0.71	89.8	0.3%	89.8	0.2	0.3%	0.55	0.3%
Window 874 (upper)			0.68	2.24	62.37	0.71	89.6	4.4%	89.6	0.2	4.4%	0.55	4.4%
Total ADF for room	Bedroom	1.0%									4.7%		4.7%
Window 875 (lower)			0.68	0.39	113.05	0.69	89.7	0.2%	89.7	0.2	0.2%	0.55	0.2%
Window 875 (upper)			0.68	2.24	113.05	0.69	89.5	2.3%	89.5	0.2	2.3%	0.55	2.3%
Window 876 (lower)			0.68	0.77	113.05	0.69	36.7	0.1%	36.7	0.2	0.1%	0.55	0.1%
Window 876 (upper)			0.68	1.41	113.05	0.69	35.8	0.6%	35.8	0.2	0.6%	0.55	0.6%
Total ADF for room	Living/Dining/Kitchen	2.0%									3.2%		3.2%
Window 877 (lower)			0.68	1.38	56.55	0.69	45.2	0.6%	45.2	0.2	0.6%	0.55	0.6%
Window 877 (upper)			0.68	2.52	56.55	0.69	44.4	2.5%	44.4	0.2	2.5%	0.55	2.5%
Total ADF for room	Bedroom	1.0%									3.1%		3.1%
Window 878 (lower)			0.68	0.39	62.37	0.71	88.2	0.3%	88.2	0.2	0.3%	0.55	0.3%
Window 878 (upper)			0.68	2.24	62.37	0.71	88.6	4.4%	88.6	0.2	4.4%	0.55	4.4%
Total ADF for room	Bedroom	1.0%									4.7%		4.7%
Window 879			0.68	1.41	97.83	0.67	88.5	1.6%	88.5	0.2	1.6%	0.55	1.6%
Window 880 (lower)			0.68	1.38	97.83	0.67	41.9	0.3%	41.9	0.2	0.3%	0.55	0.3%
Window 880 (upper)			0.68	2.52	97.83	0.67	37.8	1.2%	37.8	0.2	1.2%	0.55	1.2%
Window 881 (lower)			0.68	0.39	97.83	0.67	89.5	0.2%	89.5	0.2	0.2%	0.55	0.2%
Window 881 (upper)			0.68	2.24	97.83	0.67	89.4	2.5%	89.4	0.2	2.5%	0.55	2.5%
Total ADF for room	Living/Dining/Kitchen	2.0%									5.8%		5.8%
Window 882 (lower)			0.68	0.29	50.1	0.71	89.4	0.3%	89.4	0.2	0.3%	0.55	0.3%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 882 (upper)			0.68	1.69	50.1	0.71	89.4	4.2%	89.4	0.2	4.2%	0.55	4.2%	
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%	
<u>Block E - Eighth Floor</u>														
Window 883 (lower)			0.68	0.29	50.11	0.71	89.6	0.3%	89.6	0.2	0.3%	0.55	0.3%	
Window 883 (upper)			0.68	1.69	50.11	0.71	89.5	4.2%	89.5	0.2	4.2%	0.55	4.2%	
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%	
Window 884 (lower)			0.68	0.39	97.83	0.67	89.7	0.2%	89.7	0.2	0.2%	0.55	0.2%	
Window 884 (upper)			0.68	2.24	97.83	0.67	89.6	2.5%	89.6	0.2	2.5%	0.55	2.5%	
Window 885 (lower)			0.68	1.38	97.83	0.67	41.9	0.3%	41.9	0.2	0.3%	0.55	0.3%	
Window 885 (upper)			0.68	2.52	97.83	0.67	38.6	1.2%	38.6	0.2	1.2%	0.55	1.2%	
Window 886			0.68	1.44	97.83	0.67	89.4	1.6%	89.4	0.2	1.6%	0.55	1.6%	
Total ADF for room	Living/Dining/Kitchen	2.0%						5.8%			5.8%		5.8%	
Window 887 (lower)			0.68	0.39	62.37	0.71	89.8	0.3%	89.8	0.2	0.3%	0.55	0.3%	
Window 887 (upper)			0.68	2.24	62.37	0.71	89.6	4.4%	89.6	0.2	4.4%	0.55	4.4%	
Total ADF for room	Bedroom	1.0%						4.7%			4.7%		4.7%	
Window 888 (lower)			0.68	0.39	113.05	0.69	89.7	0.2%	89.7	0.2	0.2%	0.55	0.2%	
Window 888 (upper)			0.68	2.24	113.05	0.69	89.5	2.3%	89.5	0.2	2.3%	0.55	2.3%	
Window 889 (lower)			0.68	0.77	113.05	0.69	36.7	0.1%	36.7	0.2	0.1%	0.55	0.1%	
Window 889 (upper)			0.68	1.41	113.05	0.69	35.8	0.6%	35.8	0.2	0.6%	0.55	0.6%	
Total ADF for room	Living/Dining/Kitchen	2.0%						3.2%			3.2%		3.2%	
Window 890 (lower)			0.68	1.38	56.55	0.69	45.2	0.6%	45.2	0.2	0.6%	0.55	0.6%	
Window 890 (upper)			0.68	2.52	56.55	0.69	44.4	2.5%	44.4	0.2	2.5%	0.55	2.5%	
Total ADF for room	Bedroom	1.0%						3.1%			3.1%		3.1%	
Window 891 (lower)			0.68	0.39	62.37	0.71	89.5	0.3%	89.5	0.2	0.3%	0.55	0.3%	
Window 891 (upper)			0.68	2.24	62.37	0.71	89.6	4.4%	89.6	0.2	4.4%	0.55	4.4%	
Total ADF for room	Bedroom	1.0%						4.7%			4.7%		4.7%	
Window 892			0.68	1.41	97.83	0.67	89.4	1.6%	89.4	0.2	1.6%	0.55	1.6%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 893 (lower)			0.68	1.38	97.83	0.67	41.9	0.3%	41.9	0.2	0.3%	0.55	0.3%
Window 893 (upper)			0.68	2.52	97.83	0.67	38.6	1.2%	38.6	0.2	1.2%	0.55	1.2%
Window 894 (lower)			0.68	0.39	97.83	0.67	89.7	0.2%	89.7	0.2	0.2%	0.55	0.2%
Window 894 (upper)			0.68	2.24	97.83	0.67	89.6	2.5%	89.6	0.2	2.5%	0.55	2.5%
Total ADF for room	Living/Dining/Kitchen	2.0%						5.8%			5.8%		5.8%
Window 895 (lower)			0.68	0.29	50.1	0.71	89.6	0.3%	89.6	0.2	0.3%	0.55	0.3%
Window 895 (upper)			0.68	1.69	50.1	0.71	89.5	4.2%	89.5	0.2	4.2%	0.55	4.2%
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%
<u>Block E - Ninth Floor</u>													
Window 896 (lower)			0.68	0.29	50.11	0.71	89.7	0.3%	89.7	0.2	0.3%	0.55	0.3%
Window 896 (upper)			0.68	1.69	50.11	0.71	89.5	4.2%	89.5	0.2	4.2%	0.55	4.2%
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%
Window 897 (lower)			0.68	0.39	97.83	0.67	89.8	0.2%	89.8	0.2	0.2%	0.55	0.2%
Window 897 (upper)			0.68	2.24	97.83	0.67	89.6	2.5%	89.6	0.2	2.5%	0.55	2.5%
Window 898 (lower)			0.68	1.38	97.83	0.67	56.5	0.4%	56.5	0.2	0.4%	0.55	0.4%
Window 898 (upper)			0.68	2.52	97.83	0.67	69.2	2.2%	69.2	0.2	2.2%	0.55	2.2%
Window 899			0.68	1.44	97.83	0.67	89.4	1.6%	89.4	0.2	1.6%	0.55	1.6%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.9%			6.9%		6.9%
Window 900 (lower)			0.68	0.39	62.37	0.71	89.8	0.3%	89.8	0.2	0.3%	0.55	0.3%
Window 900 (upper)			0.68	2.24	62.37	0.71	89.6	4.4%	89.6	0.2	4.4%	0.55	4.4%
Total ADF for room	Bedroom	1.0%						4.7%			4.7%		4.7%
Window 901 (lower)			0.68	0.39	113.05	0.69	89.7	0.2%	89.7	0.2	0.2%	0.55	0.2%
Window 901 (upper)			0.68	2.24	113.05	0.69	89.5	2.3%	89.5	0.2	2.3%	0.55	2.3%
Window 902 (lower)			0.68	0.77	113.05	0.69	48.9	0.2%	48.9	0.2	0.2%	0.55	0.2%
Window 902 (upper)			0.68	1.41	113.05	0.69	59.7	1.0%	59.7	0.2	1.0%	0.55	1.0%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.7%			3.7%		3.7%
Window 903 (lower)			0.68	1.38	56.55	0.69	56.1	0.7%	56.1	0.2	0.7%	0.55	0.7%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	θ _{no trees}		T _{psummer}	ADF	T _{pwinter}	ADF	
Window 903 (upper)			0.68	2.52	56.55	0.69	71.4	4.1%	71.4	0.2	4.1%	0.55	4.1%	
Total ADF for room	Bedroom	1.0%						4.8%			4.8%		4.8%	
Window 904 (lower)			0.68	0.39	62.37	0.71	89.8	0.3%	89.8	0.2	0.3%	0.55	0.3%	
Window 904 (upper)			0.68	2.24	62.37	0.71	89.6	4.4%	89.6	0.2	4.4%	0.55	4.4%	
Total ADF for room	Bedroom	1.0%						4.7%			4.7%		4.7%	
Window 905			0.68	1.41	97.83	0.67	89.4	1.6%	89.4	0.2	1.6%	0.55	1.6%	
Window 906 (lower)			0.68	1.38	97.83	0.67	56.5	0.4%	56.5	0.2	0.4%	0.55	0.4%	
Window 906 (upper)			0.68	2.52	97.83	0.67	69.2	2.2%	69.2	0.2	2.2%	0.55	2.2%	
Window 907 (lower)			0.68	0.39	97.83	0.67	89.8	0.2%	89.8	0.2	0.2%	0.55	0.2%	
Window 907 (upper)			0.68	2.24	97.83	0.67	89.6	2.5%	89.6	0.2	2.5%	0.55	2.5%	
Total ADF for room	Living/Dining/Kitchen	2.0%						6.9%			6.9%		6.9%	
Window 908 (lower)			0.68	0.29	50.1	0.71	89.7	0.3%	89.7	0.2	0.3%	0.55	0.3%	
Window 908 (upper)			0.68	1.69	50.1	0.71	89.5	4.2%	89.5	0.2	4.2%	0.55	4.2%	
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%	
Proposed House Terrace 1A														
<u>House Terrace 1A Ground Floor</u>														
Window 909 (lower)			0.68	0.5	125.81	0.68	83.0	0.2%	83.0	0.2	0.2%	0.55	0.2%	
Window 909 (upper)			0.68	1.82	125.81	0.68	83.6	1.5%	83.6	0.2	1.5%	0.55	1.5%	
Window 910 (lower)			0.68	0.42	125.81	0.68	82.1	0.1%	82.1	0.2	0.1%	0.55	0.1%	
Window 910 (upper)			0.68	1.52	125.81	0.68	82.7	1.3%	82.7	0.2	1.3%	0.55	1.3%	
Window 911			0.68	1.21	125.81	0.68	83.3	1.0%	83.3	0.2	1.0%	0.55	1.0%	
Window 912 (lower)			0.68	1.23	125.81	0.68	71.0	0.3%	71.0	0.2	0.3%	0.55	0.3%	
Window 912 (upper)			0.68	1.82	125.81	0.68	74.7	1.4%	74.7	0.2	1.4%	0.55	1.4%	
Total ADF for room	Living/Dining/Kitchen	2.0%						5.8%			5.8%		5.8%	
Window 913 (lower)			0.68	0.14	86.3	0.68	65.9	0.1%	65.9	0.2	0.1%	0.55	0.1%	
Window 913 (upper)			0.68	0.69	86.3	0.68	72.5	0.7%	72.5	0.2	0.7%	0.55	0.7%	
Window 914 (lower)			0.68	1.23	86.3	0.68	69.5	0.5%	69.5	0.2	0.5%	0.55	0.5%	
Window 914 (upper)			0.68	1.82	86.3	0.68	74.1	2.0%	74.1	0.2	2.0%	0.55	2.0%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 915 (lower)			0.68	0.22	86.3	0.68	75.9	0.1%	75.9	0.2	0.1%	0.55	0.1%
Window 915 (upper)			0.68	0.92	86.3	0.68	77.6	1.1%	77.6	0.2	1.1%	0.55	1.1%
Total ADF for room	Living/Dining	1.5%						4.5%			4.5%		4.5%
Window 916			0.68	1.09	47.56	0.71	83.4	2.6%	83.4	0.2	2.6%	0.55	2.6%
Window 917			0.68	0.75	47.56	0.71	78.2	1.7%	78.2	0.2	1.7%	0.55	1.7%
Total ADF for room	Kitchen	2.0%						4.3%			4.3%		4.3%
<u>House Terrace 1A First Floor</u>													
Window 918 (lower)			0.68	0.36	41.51	0.71	85.8	0.4%	85.8	0.2	0.4%	0.55	0.4%
Window 918 (upper)			0.68	1.37	41.51	0.71	86.2	3.9%	86.2	0.2	3.9%	0.55	3.9%
Total ADF for room	Bedroom	1.0%						4.3%			4.3%		4.3%
Window 919 (lower)			0.68	0.36	59.34	0.69	85.8	0.3%	85.8	0.2	0.3%	0.55	0.3%
Window 919 (upper)			0.68	1.37	59.34	0.69	86.3	2.6%	86.3	0.2	2.6%	0.55	2.6%
Window 920 (lower)			0.68	0.33	59.34	0.69	85.4	0.2%	85.4	0.2	0.2%	0.55	0.2%
Window 920 (upper)			0.68	1.52	59.34	0.69	85.8	2.9%	85.8	0.2	2.9%	0.55	2.9%
Total ADF for room	Bedroom	1.0%						6.0%			6.0%		6.0%
Window 921 (lower)			0.68	0.39	57.04	0.68	79.3	0.3%	79.3	0.2	0.3%	0.55	0.3%
Window 921 (upper)			0.68	1.82	57.04	0.68	80.3	3.3%	80.3	0.2	3.3%	0.55	3.3%
Window 922 (lower)			0.68	0.33	57.04	0.68	85.6	0.2%	85.6	0.2	0.2%	0.55	0.2%
Window 922 (upper)			0.68	1.52	57.04	0.68	86.1	2.9%	86.1	0.2	2.9%	0.55	2.9%
Total ADF for room	Bedroom	1.0%						6.7%			6.7%		6.7%
Window 923 (lower)			0.68	0.16	64.15	0.7	78.1	0.1%	78.1	0.2	0.1%	0.55	0.1%
Window 923 (upper)			0.68	0.69	64.15	0.7	79.2	1.1%	79.2	0.2	1.1%	0.55	1.1%
Window 924 (lower)			0.68	0.39	64.15	0.7	78.8	0.3%	78.8	0.2	0.3%	0.55	0.3%
Window 924 (upper)			0.68	1.82	64.15	0.7	79.8	3.0%	79.8	0.2	3.0%	0.55	3.0%
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%
Window 925 (lower)			0.68	0.22	55.83	0.7	81.9	0.2%	81.9	0.2	0.2%	0.55	0.2%
Window 925 (upper)			0.68	0.92	55.83	0.7	83.1	1.8%	83.1	0.2	1.8%	0.55	1.8%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter		
	Primary room use	ADF	T	Aw	A	R	θ		θ _{no trees}	T _{psummer}	ADF	T _{pwinter}	ADF	
Window 926 (lower)			0.68	0.36	55.83	0.7	85.6	0.3%	85.6	0.2	0.3%	0.55	0.3%	
Window 926 (upper)			0.68	1.37	55.83	0.7	86.1	2.8%	86.1	0.2	2.8%	0.55	2.8%	
Total ADF for room	Bedroom	1.0%						5.1%			5.1%		5.1%	
<u>Proposed House Terrace 1B</u>														
<u>House Terrace 1B Ground Floor</u>														
Window 927			0.68	0.75	47.56	0.71	76.4	1.7%	76.4	0.2	1.7%	0.55	1.7%	
Window 928			0.68	1.09	47.56	0.71	83.0	2.6%	83.0	0.2	2.6%	0.55	2.6%	
Total ADF for room	Kitchen	2.0%						4.3%			4.3%		4.3%	
Window 929 (lower)			0.68	0.22	86.3	0.68	74.2	0.1%	74.2	0.2	0.1%	0.55	0.1%	
Window 929 (upper)			0.68	0.92	86.3	0.68	75.6	1.0%	75.6	0.2	1.0%	0.55	1.0%	
Window 930 (lower)			0.68	1.23	86.3	0.68	71.0	0.5%	71.0	0.2	0.5%	0.55	0.5%	
Window 930 (upper)			0.68	1.82	86.3	0.68	75.9	2.0%	75.9	0.2	2.0%	0.55	2.0%	
Window 931 (lower)			0.68	0.14	86.3	0.68	66.7	0.1%	66.7	0.2	0.1%	0.55	0.1%	
Window 931 (upper)			0.68	0.69	86.3	0.68	74.1	0.8%	74.1	0.2	0.8%	0.55	0.8%	
Total ADF for room	Living/Dining	1.5%						4.5%			4.5%		4.5%	
Window 932 (lower)			0.68	0.42	125.81	0.68	89.7	0.1%	89.7	0.2	0.1%	0.55	0.1%	
Window 932 (upper)			0.68	1.52	125.81	0.68	89.4	1.4%	89.4	0.2	1.4%	0.55	1.4%	
Window 933 (lower)			0.68	0.5	125.81	0.68	83.8	0.2%	83.8	0.2	0.2%	0.55	0.2%	
Window 934 (upper)			0.68	1.82	125.81	0.68	84.4	1.5%	84.4	0.2	1.5%	0.55	1.5%	
Window 934			0.68	1.21	125.81	0.68	89.1	1.1%	89.1	0.2	1.1%	0.55	1.1%	
Window 935 (lower)			0.68	1.23	125.81	0.68	76.5	0.4%	76.5	0.2	0.4%	0.55	0.4%	
Window 935 (upper)			0.68	1.82	125.81	0.68	79.2	1.4%	79.2	0.2	1.4%	0.55	1.4%	
Total ADF for room	Living/Dining/Kitchen	2.0%						6.1%			6.1%		6.1%	
<u>House Terrace 1B First Floor</u>														
Window 936 (lower)			0.68	0.36	41.51	0.71	85.9	0.4%	85.9	0.2	0.4%	0.55	0.4%	
Window 936 (upper)			0.68	1.37	41.51	0.71	86.4	3.9%	86.4	0.2	3.9%	0.55	3.9%	
Total ADF for room	Bedroom	1.0%						4.3%			4.3%		4.3%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees		Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		θ _{no trees}	T _{psummer}	ADF	T _{pwinter}	ADF	
Window 937 (lower)			0.68	0.36	55.83	0.7	85.2	0.3%	85.2	0.2	0.3%	0.55	0.3%	
Window 937 (upper)			0.68	1.37	55.83	0.7	85.9	2.8%	85.9	0.2	2.8%	0.55	2.8%	
Window 938 (lower)			0.68	0.22	55.83	0.7	80.4	0.2%	80.4	0.2	0.2%	0.55	0.2%	
Window 938 (upper)			0.68	0.92	55.83	0.7	81.8	1.8%	81.8	0.2	1.8%	0.55	1.8%	
Total ADF for room	Bedroom	1.0%						5.1%			5.1%		5.1%	
Window 939 (lower)			0.68	0.16	64.15	0.7	79.7	0.1%	79.7	0.2	0.1%	0.55	0.1%	
Window 939 (upper)			0.68	0.69	64.15	0.7	80.5	1.1%	80.5	0.2	1.1%	0.55	1.1%	
Window 940 (lower)			0.68	0.39	64.15	0.7	80.0	0.3%	80.0	0.2	0.3%	0.55	0.3%	
Window 940 (upper)			0.68	1.82	64.15	0.7	80.7	3.0%	80.7	0.2	3.0%	0.55	3.0%	
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%	
Window 941 (lower)			0.68	0.39	57.04	0.68	81.9	0.3%	81.9	0.2	0.3%	0.55	0.3%	
Window 941 (upper)			0.68	1.82	57.04	0.68	82.5	3.3%	82.5	0.2	3.3%	0.55	3.3%	
Window 942 (lower)			0.68	0.33	57.04	0.68	89.7	0.3%	89.7	0.2	0.3%	0.55	0.3%	
Window 942 (upper)			0.68	1.52	57.04	0.68	89.4	3.0%	89.4	0.2	3.0%	0.55	3.0%	
Total ADF for room	Bedroom	1.0%						6.9%			6.9%		6.9%	
Window 943 (lower)			0.68	0.36	59.34	0.69	86.3	0.3%	86.3	0.2	0.3%	0.55	0.3%	
Window 943 (upper)			0.68	1.37	59.34	0.69	86.7	2.6%	86.7	0.2	2.6%	0.55	2.6%	
Window 944 (lower)			0.68	0.33	59.34	0.69	89.7	0.3%	89.7	0.2	0.3%	0.55	0.3%	
Window 944 (upper)			0.68	1.52	59.34	0.69	89.4	3.0%	89.4	0.2	3.0%	0.55	3.0%	
Total ADF for room	Bedroom	1.0%						6.2%			6.2%		6.2%	
<u>Proposed House Terrace 2A</u>														
<u>House Terrace 2A Ground Floor</u>														
Window 945 (lower)			0.68	1.23	125.81	0.68	66.0	0.3%	66.0	0.2	0.3%	0.55	0.3%	
Window 945 (upper)			0.68	1.82	125.81	0.68	78.4	1.4%	78.4	0.2	1.4%	0.55	1.4%	
Window 946			0.68	0.75	125.81	0.68	83.3	0.6%	83.3	0.2	0.6%	0.55	0.6%	
Window 947 (lower)			0.68	0.27	125.81	0.68	82.4	0.1%	82.4	0.2	0.1%	0.55	0.1%	
Window 947 (upper)			0.68	0.92	125.81	0.68	83.0	0.8%	83.0	0.2	0.8%	0.55	0.8%	
Window 948 (lower)			0.68	0.5	125.81	0.68	73.9	0.1%	73.9	0.2	0.1%	0.55	0.1%	
Window 948 (upper)			0.68	1.82	125.81	0.68	74.2	1.4%	74.2	0.2	1.4%	0.55	1.4%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Total ADF for room	Living/Dining/Kitchen	2.0%									4.7%		4.7%	
Window 949	Kitchen	2.0%	0.68	1.09	47.56	0.72	72.6	2.4%	72.6	0.2	2.4%	0.55	2.4%	
Window 950	Kitchen	2.0%	0.68	1.09	47.56	0.72	71.7	2.3%	71.7	0.2	2.3%	0.55	2.3%	
Window 951 (lower)			0.68	0.5	125.81	0.68	63.9	0.1%	63.9	0.2	0.1%	0.55	0.1%	
Window 951 (upper)			0.68	1.82	125.81	0.68	64.9	1.2%	64.9	0.2	1.2%	0.55	1.2%	
Window 952 (lower)			0.68	0.42	125.81	0.68	39.0	0.1%	39.0	0.2	0.1%	0.55	0.1%	
Window 952 (upper)			0.68	1.52	125.81	0.68	43.2	0.7%	43.2	0.2	0.7%	0.55	0.7%	
Window 953			0.68	1.21	125.81	0.68	64.7	0.8%	64.7	0.2	0.8%	0.55	0.8%	
Window 954 (lower)			0.68	1.23	125.81	0.68	66.4	0.3%	66.4	0.2	0.3%	0.55	0.3%	
Window 954 (upper)			0.68	1.82	125.81	0.68	74.8	1.4%	74.8	0.2	1.4%	0.55	1.4%	
Total ADF for room	Living/Dining/Kitchen	2.0%									4.6%		4.6%	
Window 955 (lower)			0.68	0.16	86.3	0.69	63.8	0.1%	63.8	0.2	0.1%	0.55	0.1%	
Window 955 (upper)			0.68	0.69	86.3	0.69	73.4	0.8%	73.4	0.2	0.8%	0.55	0.8%	
Window 956 (lower)			0.68	1.23	86.3	0.69	61.7	0.5%	61.7	0.2	0.5%	0.55	0.5%	
Window 956 (upper)			0.68	1.82	86.3	0.69	73.9	2.0%	73.9	0.2	2.0%	0.55	2.0%	
Total ADF for room	Living/Dining	1.5%									3.4%		3.4%	
Window 957 (lower)			0.68	1.23	86.3	0.69	64.0	0.5%	64.0	0.2	0.5%	0.55	0.5%	
Window 957 (upper)			0.68	1.82	86.3	0.69	75.5	2.1%	75.5	0.2	2.1%	0.55	2.1%	
Window 958 (lower)			0.68	0.16	86.3	0.69	65.4	0.1%	65.4	0.2	0.1%	0.55	0.1%	
Window 958 (upper)			0.68	0.69	86.3	0.69	75.4	0.8%	75.4	0.2	0.8%	0.55	0.8%	
Total ADF for room	Living/Dining	1.5%									3.5%		3.5%	
<u>House Terrace 2A First Floor</u>														
Window 959 (lower)			0.68	0.22	57.04	0.69	85.0	0.2%	85.0	0.2	0.2%	0.55	0.2%	
Window 959 (upper)			0.68	0.92	57.04	0.69	85.7	1.8%	85.7	0.2	1.8%	0.55	1.8%	
Window 960 (lower)			0.68	0.39	57.04	0.69	82.7	0.3%	82.7	0.2	0.3%	0.55	0.3%	
Window 960 (upper)			0.68	1.82	57.04	0.69	83.5	3.5%	83.5	0.2	3.5%	0.55	3.5%	
Total ADF for room	Bedroom	1.0%									5.8%		5.8%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 961 (lower)			0.68	0.22	59.34	0.7	85.1	0.2%	85.1	0.2	0.2%	0.55	0.2%
Window 961 (upper)			0.68	0.92	59.34	0.7	85.7	1.8%	85.7	0.2	1.8%	0.55	1.8%
Window 962 (lower)			0.68	0.36	59.34	0.7	76.4	0.3%	76.4	0.2	0.3%	0.55	0.3%
Window 962 (upper)			0.68	1.37	59.34	0.7	76.8	2.4%	76.8	0.2	2.4%	0.55	2.4%
Total ADF for room	Bedroom	1.0%						4.7%			4.7%		4.7%
Window 963 (lower)			0.68	0.36	41.51	0.71	75.6	0.4%	75.6	0.2	0.4%	0.55	0.4%
Window 963 (upper)			0.68	1.37	41.51	0.71	76.2	3.5%	76.2	0.2	3.5%	0.55	3.5%
Total ADF for room	Bedroom	1.0%						3.9%			3.9%		3.9%
Window 964 (lower)			0.68	0.36	55.83	0.71	74.5	0.3%	74.5	0.2	0.3%	0.55	0.3%
Window 964 (upper)			0.68	1.37	55.83	0.71	75.2	2.5%	75.2	0.2	2.5%	0.55	2.5%
Total ADF for room	Bedroom	1.0%						2.8%			2.8%		2.8%
Window 965 (lower)			0.68	0.36	55.83	0.71	73.9	0.3%	73.9	0.2	0.3%	0.55	0.3%
Window 965 (upper)			0.68	1.37	55.83	0.71	74.6	2.5%	74.6	0.2	2.5%	0.55	2.5%
Total ADF for room	Bedroom	1.0%						2.8%			2.8%		2.8%
Window 966 (lower)			0.68	0.36	41.51	0.71	71.5	0.3%	71.5	0.2	0.3%	0.55	0.3%
Window 966 (upper)			0.68	1.37	41.51	0.71	72.4	3.3%	72.4	0.2	3.3%	0.55	3.3%
Total ADF for room	Bedroom	1.0%						3.6%			3.6%		3.6%
Window 967 (lower)			0.68	0.36	59.34	0.69	68.3	0.2%	68.3	0.2	0.2%	0.55	0.2%
Window 967 (upper)			0.68	1.37	59.34	0.69	69.7	2.1%	69.7	0.2	2.1%	0.55	2.1%
Window 968 (lower)			0.68	0.33	59.34	0.69	54.8	0.2%	54.8	0.2	0.2%	0.55	0.2%
Window 968 (upper)			0.68	1.52	59.34	0.69	58.9	2.0%	58.9	0.2	2.0%	0.55	2.0%
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%
Window 969 (lower)			0.68	0.39	57.04	0.68	79.7	0.3%	79.7	0.2	0.3%	0.55	0.3%
Window 969 (upper)			0.68	1.82	57.04	0.68	81.0	3.3%	81.0	0.2	3.3%	0.55	3.3%
Window 970 (lower)			0.68	0.33	57.04	0.68	71.6	0.2%	71.6	0.2	0.2%	0.55	0.2%
Window 970 (upper)			0.68	1.52	57.04	0.68	73.6	2.5%	73.6	0.2	2.5%	0.55	2.5%
Total ADF for room	Bedroom	1.0%						6.3%			6.3%		6.3%
Window 971 (lower)			0.68	0.16	64.15	0.7	78.8	0.1%	78.8	0.2	0.1%	0.55	0.1%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		θ _{no trees}	T _{psummer}	ADF	T _{pwinter}	ADF
Window 971 (upper)			0.68	0.69	64.15	0.7	80.2	1.1%	80.2	0.2	1.1%	0.55	1.1%
Window 972 (lower)			0.68	0.39	64.15	0.7	79.9	0.3%	79.9	0.2	0.3%	0.55	0.3%
Window 972 (upper)			0.68	1.82	64.15	0.7	81.0	3.0%	81.0	0.2	3.0%	0.55	3.0%
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%
Window 973 (lower)			0.68	0.39	64.15	0.7	80.7	0.3%	80.7	0.2	0.3%	0.55	0.3%
Window 973 (upper)			0.68	1.82	64.15	0.7	81.9	3.1%	81.9	0.2	3.1%	0.55	3.1%
Window 974 (lower)			0.68	0.16	64.15	0.7	80.7	0.1%	80.7	0.2	0.1%	0.55	0.1%
Window 974 (upper)			0.68	0.69	64.15	0.7	81.8	1.2%	81.8	0.2	1.2%	0.55	1.2%
Total ADF for room	Bedroom	1.0%						4.7%			4.7%		4.7%
Proposed House Terrace 2B													
<u>House Terrace 2B Ground Floor</u>													
Window 975 (lower)			0.68	1.23	125.81	0.68	66.9	0.3%	66.9	0.2	0.3%	0.55	0.3%
Window 975 (upper)			0.68	1.82	125.81	0.68	72.7	1.3%	72.7	0.2	1.3%	0.55	1.3%
Window 976			0.68	0.75	125.81	0.68	40.2	0.3%	40.2	0.2	0.3%	0.55	0.3%
Window 977 (lower)			0.68	0.27	125.81	0.68	59.9	0.1%	59.9	0.2	0.1%	0.55	0.1%
Window 977 (upper)			0.68	0.92	125.81	0.68	61.9	0.6%	61.9	0.2	0.6%	0.55	0.6%
Window 978 (lower)			0.68	0.5	125.81	0.68	64.8	0.1%	64.8	0.2	0.1%	0.55	0.1%
Window 978 (upper)			0.68	1.82	125.81	0.68	65.6	1.2%	65.6	0.2	1.2%	0.55	1.2%
Total ADF for room	Living/Dining/Kitchen	2.0%						3.9%			3.9%		3.9%
Window 979	Kitchen	2.0%	0.68	1.09	47.56	0.72	67.3	2.2%	67.3	0.2	2.2%	0.55	2.2%
Window 980	Kitchen	2.0%	0.68	1.09	47.56	0.72	68.4	2.2%	68.4	0.2	2.2%	0.55	2.2%
Window 981 (lower)			0.68	0.5	125.81	0.68	71.5	0.1%	71.5	0.2	0.1%	0.55	0.1%
Window 981 (upper)			0.68	1.82	125.81	0.68	72.1	1.3%	72.1	0.2	1.3%	0.55	1.3%
Window 982 (lower)			0.68	0.42	125.81	0.68	89.8	0.1%	89.8	0.2	0.1%	0.55	0.1%
Window 982 (upper)			0.68	1.52	125.81	0.68	89.4	1.4%	89.4	0.2	1.4%	0.55	1.4%
Window 983			0.68	1.21	125.81	0.68	89.2	1.1%	89.2	0.2	1.1%	0.55	1.1%
Window 984 (lower)			0.68	1.23	125.81	0.68	68.9	0.3%	68.9	0.2	0.3%	0.55	0.3%
Window 984 (upper)			0.68	1.82	125.81	0.68	79.1	1.4%	79.1	0.2	1.4%	0.55	1.4%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Total ADF for room	Living/Dining/Kitchen	2.0%									5.7%		5.7%	5.7%
Window 985 (lower)			0.68	0.16	86.3	0.69	66.1	0.1%	66.1	0.2	0.1%	0.55	0.1%	
Window 985 (upper)			0.68	0.69	86.3	0.69	76.1	0.8%	76.1	0.2	0.8%	0.55	0.8%	
Window 986 (lower)			0.68	1.23	86.3	0.69	63.8	0.5%	63.8	0.2	0.5%	0.55	0.5%	
Window 986 (upper)			0.68	1.82	86.3	0.69	77.2	2.1%	77.2	0.2	2.1%	0.55	2.1%	
Total ADF for room	Living/Dining	1.5%						3.5%			3.5%		3.5%	
Window 987 (lower)			0.68	1.23	86.3	0.69	65.0	0.5%	65.0	0.2	0.5%	0.55	0.5%	
Window 987 (upper)			0.68	1.82	86.3	0.69	76.0	2.1%	76.0	0.2	2.1%	0.55	2.1%	
Window 988 (lower)			0.68	0.16	86.3	0.69	66.7	0.1%	66.7	0.2	0.1%	0.55	0.1%	
Window 988 (upper)			0.68	0.69	86.3	0.69	75.8	0.8%	75.8	0.2	0.8%	0.55	0.8%	
Total ADF for room	Living/Dining	1.5%						3.5%			3.5%		3.5%	
<u>House Terrace 2B First Floor</u>														
Window 989 (lower)			0.68	0.22	57.04	0.69	51.9	0.1%	51.9	0.2	0.1%	0.55	0.1%	
Window 989 (upper)			0.68	0.92	57.04	0.69	56.3	1.2%	56.3	0.2	1.2%	0.55	1.2%	
Window 990 (lower)			0.68	0.39	57.04	0.69	78.3	0.3%	78.3	0.2	0.3%	0.55	0.3%	
Window 990 (upper)			0.68	1.82	57.04	0.69	79.7	3.3%	79.7	0.2	3.3%	0.55	3.3%	
Total ADF for room	Bedroom	1.0%						4.9%			4.9%		4.9%	
Window 991 (lower)			0.68	0.22	59.34	0.7	68.4	0.1%	68.4	0.2	0.1%	0.55	0.1%	
Window 991 (upper)			0.68	0.92	59.34	0.7	70.7	1.5%	70.7	0.2	1.5%	0.55	1.5%	
Window 992 (lower)			0.68	0.36	59.34	0.7	68.2	0.2%	68.2	0.2	0.2%	0.55	0.2%	
Window 992 (upper)			0.68	1.37	59.34	0.7	69.1	2.1%	69.1	0.2	2.1%	0.55	2.1%	
Total ADF for room	Bedroom	1.0%						3.9%			3.9%		3.9%	
Window 993 (lower)			0.68	0.36	41.51	0.71	68.6	0.3%	68.6	0.2	0.3%	0.55	0.3%	
Window 993 (upper)			0.68	1.37	41.51	0.71	69.5	3.2%	69.5	0.2	3.2%	0.55	3.2%	
Total ADF for room	Bedroom	1.0%						3.5%			3.5%		3.5%	
Window 994 (lower)			0.68	0.36	55.83	0.71	69.8	0.3%	69.8	0.2	0.3%	0.55	0.3%	
Window 994 (upper)			0.68	1.37	55.83	0.71	70.6	2.4%	70.6	0.2	2.4%	0.55	2.4%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Total ADF for room	Bedroom	1.0%									2.7%		2.7%
Window 995 (lower)			0.68	0.36	55.83	0.71	70.7	0.3%	70.7	0.2	0.3%	0.55	0.3%
Window 995 (upper)			0.68	1.37	55.83	0.71	71.6	2.4%	71.6	0.2	2.4%	0.55	2.4%
Total ADF for room	Bedroom	1.0%									2.7%		2.7%
Window 996 (lower)			0.68	0.36	41.51	0.71	72.6	0.4%	72.6	0.2	0.4%	0.55	0.4%
Window 996 (upper)			0.68	1.37	41.51	0.71	73.3	3.3%	73.3	0.2	3.3%	0.55	3.3%
Total ADF for room	Bedroom	1.0%									3.7%		3.7%
Window 997 (lower)			0.68	0.36	59.34	0.69	74.2	0.2%	74.2	0.2	0.2%	0.55	0.2%
Window 997 (upper)			0.68	1.37	59.34	0.69	74.7	2.3%	74.7	0.2	2.3%	0.55	2.3%
Window 998 (lower)			0.68	0.33	59.34	0.69	89.7	0.3%	89.7	0.2	0.3%	0.55	0.3%
Window 998 (upper)			0.68	1.52	59.34	0.69	89.4	3.0%	89.4	0.2	3.0%	0.55	3.0%
Total ADF for room	Bedroom	1.0%									5.8%		5.8%
Window 999 (lower)			0.68	0.39	57.04	0.68	84.2	0.3%	84.2	0.2	0.3%	0.55	0.3%
Window 999 (upper)			0.68	1.82	57.04	0.68	84.9	3.4%	84.9	0.2	3.4%	0.55	3.4%
Window 1000 (lower)			0.68	0.33	57.04	0.68	89.7	0.3%	89.7	0.2	0.3%	0.55	0.3%
Window 1000 (upper)			0.68	1.52	57.04	0.68	89.4	3.0%	89.4	0.2	3.0%	0.55	3.0%
Total ADF for room	Bedroom	1.0%									7.0%		7.0%
Window 1001 (lower)			0.68	0.16	64.15	0.7	82.4	0.1%	82.4	0.2	0.1%	0.55	0.1%
Window 1001 (upper)			0.68	0.69	64.15	0.7	83.2	1.2%	83.2	0.2	1.2%	0.55	1.2%
Window 1002 (lower)			0.68	0.39	64.15	0.7	82.7	0.3%	82.7	0.2	0.3%	0.55	0.3%
Window 1002 (upper)			0.68	1.82	64.15	0.7	83.4	3.1%	83.4	0.2	3.1%	0.55	3.1%
Total ADF for room	Bedroom	1.0%									4.7%		4.7%
Window 1003 (lower)			0.68	0.39	64.15	0.7	82.1	0.3%	82.1	0.2	0.3%	0.55	0.3%
Window 1003 (upper)			0.68	1.82	64.15	0.7	82.9	3.1%	82.9	0.2	3.1%	0.55	3.1%
Window 1004 (lower)			0.68	0.16	64.15	0.7	81.0	0.1%	81.0	0.2	0.1%	0.55	0.1%
Window 1004 (upper)			0.68	0.69	64.15	0.7	82.0	1.2%	82.0	0.2	1.2%	0.55	1.2%
Total ADF for room	Bedroom	1.0%									4.7%		4.7%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
<u>Proposed House Terrace 2C</u>													
<u>House Terrace 2C Ground Floor</u>													
Window 1005 (lower)			0.68	0.5	125.81	0.68	88.5	0.2%	88.5	0.2	0.2%	0.55	0.2%
Window 1005 (upper)			0.68	1.82	125.81	0.68	88.3	1.6%	88.3	0.2	1.6%	0.55	1.6%
Window 1006 (lower)			0.68	0.27	125.81	0.68	80.5	0.1%	80.5	0.2	0.1%	0.55	0.1%
Window 1006 (upper)			0.68	0.92	125.81	0.68	82.4	0.8%	82.4	0.2	0.8%	0.55	0.8%
Window 1007			0.68	0.75	125.81	0.68	81.8	0.6%	81.8	0.2	0.6%	0.55	0.6%
Window 1008 (lower)			0.68	1.23	125.81	0.68	74.5	0.4%	74.5	0.2	0.4%	0.55	0.4%
Window 1008 (upper)			0.68	1.82	125.81	0.68	79.1	1.5%	79.1	0.2	1.5%	0.55	1.5%
Total ADF for room	Living/Dining/Kitchen	2.0%						5.2%			5.2%		5.2%
Window 1009 (lower)			0.68	0.16	86.3	0.69	67.6	0.1%	67.6	0.2	0.1%	0.55	0.1%
Window 1009 (upper)			0.68	0.69	86.3	0.69	76.6	0.8%	76.6	0.2	0.8%	0.55	0.8%
Window 1010 (lower)			0.68	1.23	86.3	0.69	65.6	0.5%	65.6	0.2	0.5%	0.55	0.5%
Window 1010 (upper)			0.68	1.82	86.3	0.69	77.3	2.1%	77.3	0.2	2.1%	0.55	2.1%
Total ADF for room	Living/Dining	1.5%						3.5%			3.5%		3.5%
Window 1011 (lower)			0.68	1.23	86.3	0.69	65.4	0.5%	65.4	0.2	0.5%	0.55	0.5%
Window 1011 (upper)			0.68	1.82	86.3	0.69	77.7	2.1%	77.7	0.2	2.1%	0.55	2.1%
Window 1012 (lower)			0.68	0.16	86.3	0.69	67.3	0.1%	67.3	0.2	0.1%	0.55	0.1%
Window 1012 (upper)			0.68	0.69	86.3	0.69	76.6	0.8%	76.6	0.2	0.8%	0.55	0.8%
Total ADF for room	Living/Dining	1.5%						3.5%			3.5%		3.5%
Window 1013 (lower)			0.68	1.23	125.81	0.68	75.9	0.4%	75.9	0.2	0.4%	0.55	0.4%
Window 1013 (upper)			0.68	1.82	125.81	0.68	80.5	1.5%	80.5	0.2	1.5%	0.55	1.5%
Window 1014			0.68	1.21	125.81	0.68	84.4	1.0%	84.4	0.2	1.0%	0.55	1.0%
Window 1015 (lower)			0.68	0.42	125.81	0.68	87.3	0.1%	87.3	0.2	0.1%	0.55	0.1%
Window 1015 (upper)			0.68	1.52	125.81	0.68	88.8	1.3%	88.8	0.2	1.3%	0.55	1.3%
Window 1016 (lower)			0.68	0.5	125.81	0.68	88.9	0.2%	88.9	0.2	0.2%	0.55	0.2%
Window 1016 (upper)			0.68	1.82	125.81	0.68	88.7	1.6%	88.7	0.2	1.6%	0.55	1.6%
Total ADF for room	Living/Dining/Kitchen	2.0%						6.1%			6.1%		6.1%

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients						ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ	$\theta_{no\ trees}$		$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF	
Window 1017	Kitchen	2.0%	0.68	1.09	47.56	0.72	88.3	2.9%	88.3	0.2	2.9%	0.55	2.9%	
Window 1018	Kitchen	2.0%	0.68	1.09	47.56	0.72	88.3	2.9%	88.3	0.2	2.9%	0.55	2.9%	
<u>House Terrace 2C First Floor</u>														
Window 1019 (lower)			0.68	0.36	41.51	0.71	88.9	0.4%	88.9	0.2	0.4%	0.55	0.4%	
Window 1019 (upper)			0.68	1.37	41.51	0.71	88.7	4.1%	88.7	0.2	4.1%	0.55	4.1%	
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%	
Window 1020 (lower)			0.68	0.36	59.34	0.7	88.9	0.3%	88.9	0.2	0.3%	0.55	0.3%	
Window 1020 (upper)			0.68	1.37	59.34	0.7	88.7	2.7%	88.7	0.2	2.7%	0.55	2.7%	
Window 1021 (lower)			0.68	0.22	59.34	0.7	84.9	0.2%	84.9	0.2	0.2%	0.55	0.2%	
Window 1021 (upper)			0.68	0.92	59.34	0.7	85.3	1.8%	85.3	0.2	1.8%	0.55	1.8%	
Total ADF for room	Bedroom	1.0%						5.0%			5.0%		5.0%	
Window 1022 (lower)			0.68	0.39	57.04	0.69	82.4	0.3%	82.4	0.2	0.3%	0.55	0.3%	
Window 1022 (upper)			0.68	1.82	57.04	0.69	83.0	3.4%	83.0	0.2	3.4%	0.55	3.4%	
Window 1023 (lower)			0.68	0.22	57.04	0.69	84.7	0.2%	84.7	0.2	0.2%	0.55	0.2%	
Window 1023 (upper)			0.68	0.92	57.04	0.69	85.2	1.8%	85.2	0.2	1.8%	0.55	1.8%	
Total ADF for room	Bedroom	1.0%						5.7%			5.7%		5.7%	
Window 1024 (lower)			0.68	0.16	64.15	0.7	81.6	0.1%	81.6	0.2	0.1%	0.55	0.1%	
Window 1024 (upper)			0.68	0.69	64.15	0.7	82.3	1.2%	82.3	0.2	1.2%	0.55	1.2%	
Window 1025 (lower)			0.68	0.39	64.15	0.7	82.4	0.3%	82.4	0.2	0.3%	0.55	0.3%	
Window 1025 (upper)			0.68	1.82	64.15	0.7	82.9	3.1%	82.9	0.2	3.1%	0.55	3.1%	
Total ADF for room	Bedroom	1.0%						4.7%			4.7%		4.7%	
Window 1026 (lower)			0.68	0.39	64.15	0.7	82.5	0.3%	82.5	0.2	0.3%	0.55	0.3%	
Window 1026 (upper)			0.68	1.82	64.15	0.7	83.0	3.1%	83.0	0.2	3.1%	0.55	3.1%	
Window 1027 (lower)			0.68	0.16	64.15	0.7	82.0	0.1%	82.0	0.2	0.1%	0.55	0.1%	
Window 1027 (upper)			0.68	0.69	64.15	0.7	82.6	1.2%	82.6	0.2	1.2%	0.55	1.2%	
Total ADF for room	Bedroom	1.0%						4.7%			4.7%		4.7%	
Window 1028 (lower)			0.68	0.33	57.04	0.68	89.7	0.3%	89.7	0.2	0.3%	0.55	0.3%	

**Appendix 2 - Average Daylight Factor (ADF)
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB**

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					ADF	Trees	Summer		Winter	
	Primary room use	ADF	T	Aw	A	R	θ		$\theta_{no\ trees}$	$T_{p_{summer}}$	ADF	$T_{p_{winter}}$	ADF
Window 1028 (upper)			0.68	1.52	57.04	0.68	89.4	3.0%	89.4	0.2	3.0%	0.55	3.0%
Window 1029 (lower)			0.68	0.39	57.04	0.68	83.7	0.3%	83.7	0.2	0.3%	0.55	0.3%
Window 1029 (upper)			0.68	1.82	57.04	0.68	84.1	3.4%	84.1	0.2	3.4%	0.55	3.4%
Total ADF for room	Bedroom	1.0%						7.0%			7.0%		7.0%
Window 1030 (lower)			0.68	0.33	59.34	0.69	89.7	0.3%	89.7	0.2	0.3%	0.55	0.3%
Window 1030 (upper)			0.68	1.52	59.34	0.69	89.4	3.0%	89.4	0.2	3.0%	0.55	3.0%
Window 1031 (lower)			0.68	0.36	59.34	0.69	89.1	0.3%	89.1	0.2	0.3%	0.55	0.3%
Window 1031 (upper)			0.68	1.37	59.34	0.69	88.9	2.7%	88.9	0.2	2.7%	0.55	2.7%
Total ADF for room	Bedroom	1.0%						6.3%			6.3%		6.3%
Window 1032 (lower)			0.68	0.36	41.51	0.71	89.1	0.4%	89.1	0.2	0.4%	0.55	0.4%
Window 1032 (upper)			0.68	1.37	41.51	0.71	88.8	4.1%	88.8	0.2	4.1%	0.55	4.1%
Total ADF for room	Bedroom	1.0%						4.5%			4.5%		4.5%
Window 1033 (lower)			0.68	0.36	55.83	0.71	89.0	0.3%	89.0	0.2	0.3%	0.55	0.3%
Window 1033 (upper)			0.68	1.37	55.83	0.71	88.8	3.0%	88.8	0.2	3.0%	0.55	3.0%
Total ADF for room	Bedroom	1.0%						3.3%			3.3%		3.3%
Window 1034 (lower)			0.68	0.36	55.83	0.71	89.0	0.3%	89.0	0.2	0.3%	0.55	0.3%
Window 1034 (upper)			0.68	1.37	55.83	0.71	88.8	3.0%	88.8	0.2	3.0%	0.55	3.0%
Total ADF for room	Bedroom	1.0%						3.3%			3.3%		3.3%

Appendix 2 - Room Depth Calculation
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Depth Coefficients				Room Depth Calculation		
	L	W	H	Rb	L/W + L/H	<=	2/1-Rb
<u>Proposed Block A</u>							
<u>Block A - Ground Floor</u>							
Window 1	4.4	3.6	2.4	0.71	3.06	<=	6.88
Window 2	3.1	2.5	2.4	0.71	2.53	<=	6.83
Window 6	4.5	2.6	2.4	0.69	3.61	<=	6.43
Window 7	2.6	3.2	2.4	0.69	1.9	<=	6.5
Window 11	5.4	2.8	2.4	0.71	4.18	<=	6.91
Window 12	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 15	5.4	2.7	2.4	0.71	4.25	<=	6.91
Window 19	2.6	3.3	2.4	0.71	1.87	<=	6.89
<u>Block A - First Floor</u>							
Window 20	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 23	5.3	2.8	2.4	0.71	4.1	<=	6.9
Window 27	3.4	3.3	2.4	0.7	2.45	<=	6.64
Window 28	3.4	3.2	2.4	0.7	2.48	<=	6.64
Window 32	5.4	2.8	2.4	0.71	4.18	<=	6.91
Window 33	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 36	5.4	2.7	2.4	0.71	4.25	<=	6.91
Window 40	3.4	3.3	2.4	0.71	2.45	<=	7.0
Window 41	3.4	3.3	2.4	0.71	2.45	<=	7.0
Window 45	5.4	2.7	2.4	0.71	4.25	<=	6.9
Window 46	3.8	3.2	2.4	0.69	2.77	<=	6.36
<u>Block A - Second Floor</u>							
Window 49	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 52	5.3	2.8	2.4	0.71	4.1	<=	6.9
Window 56	3.4	3.3	2.4	0.7	2.45	<=	6.64
Window 57	3.4	3.2	2.4	0.7	2.48	<=	6.64
Window 61	5.4	2.8	2.4	0.71	4.18	<=	6.91
Window 62	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 65	5.4	2.7	2.4	0.71	4.25	<=	6.91
Window 69	2.4	3.2	2.4	0.71	1.75	<=	6.89
Window 70	2.4	3.2	2.4	0.71	1.75	<=	6.89
Window 74	5.4	2.7	2.4	0.71	4.25	<=	6.9
Window 75	3.8	3.2	2.4	0.69	2.77	<=	6.36

Appendix 2 - Room Depth Calculation
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Depth Coefficients				Room Depth Calculation		
	L	W	H	Rb	L/W + L/H	<=	2/1-Rb
<u>Block A - Third Floor</u>							
Window 78	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 81	5.3	2.8	2.4	0.71	4.1	<=	6.9
Window 85	3.4	3.3	2.4	0.7	2.45	<=	6.64
Window 86	3.4	3.2	2.4	0.7	2.48	<=	6.64
Window 90	5.4	2.8	2.4	0.71	4.18	<=	6.91
Window 91	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 94	5.4	2.7	2.4	0.71	4.25	<=	6.91
Window 98	3.4	3.3	2.4	0.71	2.45	<=	7.0
Window 99	3.4	3.3	2.4	0.71	2.45	<=	7.0
Window 103	5.4	2.7	2.4	0.71	4.25	<=	6.9
Window 104	3.8	3.2	2.4	0.69	2.77	<=	6.36
<u>Block A - Fourth Floor</u>							
Window 107	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 110	5.3	2.8	2.4	0.71	4.1	<=	6.9
Window 114	3.4	3.3	2.4	0.7	2.45	<=	6.64
Window 115	3.4	3.2	2.4	0.7	2.48	<=	6.64
Window 119	5.4	2.8	2.4	0.71	4.18	<=	6.91
Window 120	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 123	5.4	2.7	2.4	0.71	4.25	<=	6.91
Window 127	3.4	3.3	2.4	0.71	2.45	<=	7.0
Window 128	3.4	3.3	2.4	0.71	2.45	<=	7.0
Window 132	5.4	2.7	2.4	0.71	4.25	<=	6.9
Window 133	3.8	3.2	2.4	0.69	2.77	<=	6.36
<u>Proposed Block B</u>							
<u>Block B - Ground Floor</u>							
Window 136	3.5	3.4	2.4	0.7	2.49	<=	6.7
Window 140	4.1	2.1	2.4	0.71	3.66	<=	6.89
Window 143	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 144	4.1	2.2	2.4	0.71	3.57	<=	6.89
Window 148	3.5	3.4	2.4	0.7	2.49	<=	6.7
Window 149	3.7	2.7	2.4	0.7	2.91	<=	6.68
Window 153	4.4	2.8	2.4	0.71	3.4	<=	6.83
Window 154	4.4	3.4	2.4	0.7	3.13	<=	6.7

Appendix 2 - Room Depth Calculation
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Depth Coefficients				Room Depth Calculation		
	L	W	H	Rb	L/W + L/H	<=	2/1-Rb
<u>Block B - First Floor</u>							
Window 155	3.5	3.4	2.4	0.7	2.49	<=	6.69
Window 159	4.1	2.1	2.4	0.71	3.66	<=	6.89
Window 162	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 163	4.1	2.2	2.5	0.71	3.5	<=	6.85
Window 167	3.5	3.4	2.5	0.7	2.43	<=	6.66
Window 168	3.5	3.4	2.5	0.7	2.43	<=	6.66
Window 172	4.1	2.2	2.4	0.71	3.57	<=	6.89
Window 175	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 178	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 179	4.1	2.1	2.4	0.71	3.66	<=	6.89
Window 183	3.5	3.4	2.4	0.7	2.49	<=	6.69
<u>Block B - Second Floor</u>							
Window 184	3.5	3.4	2.4	0.7	2.49	<=	6.69
Window 188	4.1	2.1	2.4	0.71	3.66	<=	6.89
Window 191	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 192	4.1	2.2	2.5	0.71	3.5	<=	6.85
Window 196	3.5	3.4	2.5	0.7	2.43	<=	6.66
Window 197	3.5	3.4	2.5	0.7	2.43	<=	6.66
Window 201	4.1	2.2	2.4	0.71	3.57	<=	6.89
Window 204	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 207	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 208	4.1	2.1	2.4	0.71	3.66	<=	6.89
Window 212	3.5	3.4	2.4	0.7	2.49	<=	6.69
<u>Block B - Third Floor</u>							
Window 213	3.5	3.4	2.4	0.7	2.49	<=	6.69
Window 217	4.1	2.1	2.4	0.71	3.66	<=	6.89
Window 220	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 221	4.1	2.2	2.5	0.71	3.5	<=	6.85
Window 225	3.5	3.4	2.5	0.7	2.43	<=	6.66
Window 226	3.5	3.4	2.5	0.7	2.43	<=	6.66
Window 230	4.1	2.2	2.4	0.71	3.57	<=	6.89
Window 233	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 236	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 237	4.1	2.1	2.4	0.71	3.66	<=	6.89
Window 241	3.5	3.4	2.4	0.7	2.49	<=	6.69

Appendix 2 - Room Depth Calculation
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Depth Coefficients				Room Depth Calculation		
	L	W	H	Rb	L/W + L/H	<=	2/1-Rb
<u>Block B - Fourth Floor</u>							
Window 242	3.5	3.4	2.4	0.7	2.49	<=	6.69
Window 246	4.1	2.1	2.4	0.71	3.66	<=	6.89
Window 249	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 250	4.1	2.2	2.5	0.71	3.5	<=	6.85
Window 254	3.5	3.4	2.5	0.7	2.43	<=	6.66
Window 255	3.5	3.4	2.5	0.7	2.43	<=	6.66
Window 259	4.1	2.2	2.4	0.71	3.57	<=	6.89
Window 262	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 265	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 266	4.1	2.1	2.4	0.71	3.66	<=	6.89
Window 270	3.5	3.4	2.4	0.7	2.49	<=	6.69
<u>Block B - Fifth Floor</u>							
Window 271	3.5	3.4	2.4	0.7	2.49	<=	6.69
Window 275	4.1	2.1	2.4	0.71	3.66	<=	6.89
Window 278	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 279	4.1	2.2	2.5	0.71	3.5	<=	6.85
Window 283	3.5	3.4	2.5	0.7	2.43	<=	6.66
Window 284	3.5	3.4	2.5	0.7	2.43	<=	6.66
Window 288	4.1	2.2	2.4	0.71	3.57	<=	6.89
Window 291	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 294	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 295	4.1	2.1	2.4	0.71	3.66	<=	6.89
Window 299	3.5	3.4	2.4	0.7	2.49	<=	6.69
<u>Block B - Sixth Floor</u>							
Window 300	3.5	3.4	2.4	0.7	2.49	<=	6.69
Window 304	4.1	2.1	2.4	0.71	3.66	<=	6.89
Window 307	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 308	4.1	2.2	2.5	0.71	3.5	<=	6.85
Window 312	3.5	3.4	2.5	0.7	2.43	<=	6.66
Window 313	3.5	3.4	2.5	0.7	2.43	<=	6.66
Window 317	4.1	2.2	2.4	0.71	3.57	<=	6.89
Window 320	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 323	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 324	4.1	2.1	2.4	0.71	3.66	<=	6.89
Window 328	3.5	3.4	2.4	0.7	2.49	<=	6.69

Appendix 2 - Room Depth Calculation
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Depth Coefficients				Room Depth Calculation		
	L	W	H	Rb	L/W + L/H	<=	2/1-Rb
<u>Block B - Seventh Floor</u>							
Window 329	4.1	2.2	2.5	0.71	3.5	<=	6.85
Window 333	3.5	3.4	2.5	0.7	2.43	<=	6.66
Window 334	3.5	3.4	2.5	0.7	2.43	<=	6.66
Window 338	4.1	2.2	2.4	0.71	3.57	<=	6.89
Window 341	3.8	3.2	2.4	0.69	2.77	<=	6.36
<u>Proposed Block C</u>							
<u>Block C - Ground Floor</u>							
Window 342	4.4	3.6	2.4	0.71	3.06	<=	6.87
Window 343	3.1	2.5	2.4	0.71	2.53	<=	6.81
Window 347	4.5	2.6	2.4	0.71	3.61	<=	6.88
<u>Block C - First Floor</u>							
Window 348	3.4	3.2	2.4	0.71	2.48	<=	6.92
Window 352	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 353	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 356	5.3	2.8	2.4	0.71	4.1	<=	6.89
Window 360	3.4	3.2	2.4	0.7	2.48	<=	6.62
Window 361	3.4	3.3	2.4	0.7	2.45	<=	6.62
Window 365	5.3	2.8	2.4	0.71	4.1	<=	6.89
Window 366	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 369	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 372	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 376	3.4	3.3	2.4	0.71	2.45	<=	6.92
<u>Block C - Second Floor</u>							
Window 377	3.4	3.2	2.4	0.71	2.48	<=	6.92
Window 381	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 382	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 385	5.3	2.8	2.4	0.71	4.1	<=	6.89
Window 389	3.4	3.2	2.4	0.7	2.48	<=	6.62
Window 390	3.4	3.3	2.4	0.7	2.45	<=	6.62
Window 394	5.3	2.8	2.4	0.71	4.1	<=	6.89
Window 395	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 398	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 401	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 405	3.4	3.3	2.4	0.71	2.45	<=	6.92

Appendix 2 - Room Depth Calculation
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Depth Coefficients				Room Depth Calculation		
	L	W	H	Rb	L/W + L/H	<=	2/1-Rb
<u>Block C - Third Floor</u>							
Window 406	3.4	3.2	2.4	0.71	2.48	<=	6.92
Window 410	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 411	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 414	5.3	2.8	2.4	0.71	4.1	<=	6.89
Window 418	3.4	3.2	2.4	0.7	2.48	<=	6.62
Window 419	3.4	3.3	2.4	0.7	2.45	<=	6.62
Window 423	5.3	2.8	2.4	0.71	4.1	<=	6.89
Window 424	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 427	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 430	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 434	3.4	3.3	2.4	0.71	2.45	<=	6.92
<u>Block C - Fourth Floor</u>							
Window 435	3.4	3.2	2.4	0.71	2.48	<=	6.92
Window 439	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 440	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 443	5.3	2.8	2.4	0.71	4.1	<=	6.89
Window 447	3.4	3.2	2.4	0.7	2.48	<=	6.62
Window 448	3.4	3.3	2.4	0.7	2.45	<=	6.62
Window 452	5.3	2.8	2.4	0.71	4.1	<=	6.89
Window 453	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 456	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 459	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 463	3.4	3.3	2.4	0.71	2.45	<=	6.92
<u>Block C - Fifth Floor</u>							
Window 464	3.4	3.2	2.4	0.71	2.48	<=	6.92
Window 468	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 469	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 472	5.3	2.8	2.4	0.71	4.1	<=	6.89
Window 476	3.4	3.2	2.4	0.7	2.48	<=	6.62
Window 477	3.4	3.3	2.4	0.7	2.45	<=	6.62
Window 481	5.3	2.8	2.4	0.71	4.1	<=	6.89
Window 482	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 485	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 488	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 492	3.4	3.3	2.4	0.71	2.45	<=	6.92

Appendix 2 - Room Depth Calculation
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Depth Coefficients				Room Depth Calculation		
	L	W	H	Rb	L/W + L/H	<=	2/1-Rb
<u>Proposed Block D</u>							
<u>Block D - Ground Floor</u>							
Window 493	2.4	3.1	2.4	0.71	1.77	<=	6.89
Window 497	5.4	2.8	2.4	0.71	4.18	<=	6.91
<u>Block D - First Floor</u>							
Window 498	2.4	3.1	2.4	0.71	1.77	<=	6.89
Window 502	5.4	2.8	2.4	0.71	4.18	<=	6.91
Window 503	3.8	3.2	2.4	0.67	2.77	<=	6.15
Window 506	5.4	2.8	2.4	0.7	4.18	<=	6.66
Window 510	2.4	3.1	2.4	0.69	1.77	<=	6.48
Window 511	2.4	3.1	2.4	0.69	1.77	<=	6.48
Window 515	5.4	2.7	2.4	0.71	4.25	<=	6.91
Window 516	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 519	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 522	5.4	2.8	2.4	0.71	4.18	<=	6.91
Window 526	2.4	3.1	2.4	0.71	1.77	<=	6.89
<u>Block D - Second Floor</u>							
Window 527	2.4	3.1	2.4	0.71	1.77	<=	6.89
Window 531	5.4	2.8	2.4	0.71	4.18	<=	6.91
Window 532	3.8	3.2	2.4	0.67	2.77	<=	6.15
Window 535	5.4	2.8	2.4	0.7	4.18	<=	6.66
Window 539	2.4	3.1	2.4	0.69	1.77	<=	6.48
Window 540	2.4	3.1	2.4	0.69	1.77	<=	6.48
Window 544	5.4	2.7	2.4	0.71	4.25	<=	6.91
Window 545	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 548	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 551	5.4	2.8	2.4	0.71	4.18	<=	6.91
Window 555	2.4	3.1	2.4	0.71	1.77	<=	6.89
<u>Block D - Third Floor</u>							
Window 556	2.4	3.1	2.4	0.71	1.77	<=	6.89
Window 560	5.4	2.8	2.4	0.71	4.18	<=	6.91
Window 561	3.8	3.2	2.4	0.67	2.77	<=	6.15
Window 564	5.4	2.8	2.4	0.7	4.18	<=	6.66
Window 568	2.4	3.1	2.4	0.69	1.77	<=	6.48
Window 569	2.4	3.1	2.4	0.69	1.77	<=	6.48

Appendix 2 - Room Depth Calculation
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Depth Coefficients				Room Depth Calculation		
	L	W	H	Rb	L/W + L/H	<=	2/1-Rb
Window 573	5.4	2.7	2.4	0.71	4.25	<=	6.91
Window 574	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 577	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 580	5.4	2.8	2.4	0.71	4.18	<=	6.91
Window 584	2.4	3.1	2.4	0.71	1.77	<=	6.89
<u>Block D - Fourth Floor</u>							
Window 585	2.4	3.1	2.4	0.71	1.77	<=	6.89
Window 589	5.4	2.8	2.4	0.71	4.18	<=	6.91
Window 590	3.8	3.2	2.4	0.67	2.77	<=	6.15
Window 593	5.4	2.8	2.4	0.7	4.18	<=	6.66
Window 597	2.4	3.1	2.4	0.69	1.77	<=	6.48
Window 598	2.4	3.1	2.4	0.69	1.77	<=	6.48
Window 602	5.4	2.7	2.4	0.71	4.25	<=	6.91
Window 603	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 606	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 609	5.4	2.8	2.4	0.71	4.18	<=	6.91
Window 613	2.4	3.1	2.4	0.71	1.77	<=	6.89
<u>Block D - Fifth Floor</u>							
Window 614	2.4	3.1	2.4	0.71	1.77	<=	6.89
Window 618	5.4	2.8	2.4	0.71	4.18	<=	6.91
Window 619	3.8	3.2	2.4	0.67	2.77	<=	6.15
Window 622	5.4	2.8	2.4	0.7	4.18	<=	6.66
Window 626	2.4	3.1	2.4	0.69	1.77	<=	6.48
Window 627	2.4	3.1	2.4	0.69	1.77	<=	6.48
Window 631	5.4	2.7	2.4	0.71	4.25	<=	6.91
Window 632	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 635	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 638	5.4	2.8	2.4	0.71	4.18	<=	6.91
Window 642	2.4	3.1	2.4	0.71	1.77	<=	6.89
<u>Block D - Sixth Floor</u>							
Window 643	2.4	3.1	2.4	0.71	1.77	<=	6.89
Window 647	5.4	2.8	2.4	0.71	4.18	<=	6.91
Window 648	3.8	3.2	2.4	0.67	2.77	<=	6.15
Window 651	5.4	2.8	2.4	0.7	4.18	<=	6.66
Window 655	2.4	3.1	2.4	0.69	1.77	<=	6.48
Window 656	2.4	3.1	2.4	0.69	1.77	<=	6.48

Appendix 2 - Room Depth Calculation
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Depth Coefficients				Room Depth Calculation		
	L	W	H	Rb	L/W + L/H	<=	2/1-Rb
Window 660	5.4	2.7	2.4	0.71	4.25	<=	6.91
Window 661	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 664	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 667	5.4	2.8	2.4	0.71	4.18	<=	6.91
Window 671	2.4	3.1	2.4	0.71	1.77	<=	6.89
Proposed Block E							
<u>Block E - First Floor</u>							
Window 672	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 676	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 679	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 680	3.8	3.3	2.4	0.7	2.73	<=	6.68
Window 685	3.7	3.2	2.4	0.68	2.7	<=	6.35
Window 686	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 690	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 691	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 695	5.3	2.8	2.4	0.71	4.1	<=	6.89
Window 696	5.9	4.4	2.4	0.69	3.8	<=	6.41
Window 697	5.9	4.4	2.4	0.69	3.8	<=	6.41
Window 698	3.9	2.2	2.4	0.72	3.4	<=	7.24
Window 699	3.9	4.0	2.4	0.71	2.6	<=	6.92
Window 700	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 704	3.4	3.3	2.4	0.71	2.45	<=	6.98
<u>Block E - Second Floor</u>							
Window 705	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 709	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 712	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 713	3.8	3.3	2.4	0.7	2.73	<=	6.68
Window 718	3.7	3.2	2.4	0.68	2.7	<=	6.35
Window 719	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 723	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 724	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 728	5.3	2.8	2.4	0.71	4.1	<=	6.89
Window 729	5.9	4.4	2.4	0.69	3.8	<=	6.41
Window 730	5.9	4.4	2.4	0.69	3.8	<=	6.41
Window 731	3.9	2.2	2.4	0.72	3.4	<=	7.24
Window 732	3.9	4.0	2.4	0.71	2.6	<=	6.92
Window 733	5.3	2.7	2.4	0.71	4.17	<=	6.89

Appendix 2 - Room Depth Calculation
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Depth Coefficients				Room Depth Calculation		
	L	W	H	Rb	L/W + L/H	<=	2/1-Rb
Window 737	3.4	3.3	2.4	0.71	2.45	<=	6.98
<u>Block E - Third Floor</u>							
Window 738	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 742	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 745	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 746	3.8	3.3	2.4	0.7	2.73	<=	6.68
Window 751	3.7	3.2	2.4	0.68	2.7	<=	6.35
Window 752	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 756	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 757	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 761	5.3	2.8	2.4	0.71	4.1	<=	6.89
Window 762	5.9	4.4	2.4	0.69	3.8	<=	6.41
Window 763	5.9	4.4	2.4	0.69	3.8	<=	6.41
Window 764	3.9	2.2	2.4	0.72	3.4	<=	7.24
Window 765	3.9	4.0	2.4	0.71	2.6	<=	6.92
Window 766	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 770	3.4	3.3	2.4	0.71	2.45	<=	6.98
<u>Block E - Fourth Floor</u>							
Window 771	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 775	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 778	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 779	3.8	3.3	2.4	0.7	2.73	<=	6.68
Window 784	3.7	3.2	2.4	0.68	2.7	<=	6.35
Window 785	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 789	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 790	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 794	5.3	2.8	2.4	0.71	4.1	<=	6.89
Window 795	5.9	4.4	2.4	0.69	3.8	<=	6.41
Window 796	5.9	4.4	2.4	0.69	3.8	<=	6.41
Window 797	3.9	2.2	2.4	0.72	3.4	<=	7.24
Window 798	3.9	4.0	2.4	0.71	2.6	<=	6.92
Window 799	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 803	3.4	3.3	2.4	0.71	2.45	<=	6.98
<u>Block E - Fifth Floor</u>							
Window 804	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 808	5.3	2.7	2.4	0.71	4.17	<=	6.89

Appendix 2 - Room Depth Calculation

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Depth Coefficients				Room Depth Calculation		
	L	W	H	Rb	L/W + L/H	<=	2/1-Rb
Window 811	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 812	3.8	3.3	2.4	0.7	2.73	<=	6.68
Window 817	3.7	3.2	2.4	0.68	2.7	<=	6.35
Window 818	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 822	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 823	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 827	5.3	2.8	2.4	0.71	4.1	<=	6.89
Window 828	5.9	4.4	2.4	0.69	3.8	<=	6.41
Window 829	5.9	4.4	2.4	0.69	3.8	<=	6.41
Window 830	3.9	2.2	2.4	0.72	3.4	<=	7.24
Window 831	3.9	4.0	2.4	0.71	2.6	<=	6.92
Window 832	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 836	3.4	3.3	2.4	0.71	2.45	<=	6.98

Block E - Sixth Floor

Window 837	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 841	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 844	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 845	3.8	3.3	2.4	0.7	2.73	<=	6.68
Window 850	3.7	3.2	2.4	0.68	2.7	<=	6.35
Window 851	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 855	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 856	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 860	5.3	2.8	2.4	0.71	4.1	<=	6.89
Window 861	5.9	4.4	2.4	0.69	3.8	<=	6.41
Window 862	5.9	4.4	2.4	0.69	3.8	<=	6.41
Window 863	3.9	2.2	2.4	0.72	3.4	<=	7.24
Window 864	3.9	4.0	2.4	0.71	2.6	<=	6.92
Window 865	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 869	3.4	3.3	2.4	0.71	2.45	<=	6.98

Block E - Seventh Floor

Window 870	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 874	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 877	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 878	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 882	3.4	3.3	2.4	0.71	2.45	<=	6.98

Appendix 2 - Room Depth Calculation
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Depth Coefficients				Room Depth Calculation		
	L	W	H	Rb	L/W + L/H	<=	2/1-Rb
<u>Block E - Eighth Floor</u>							
Window 883	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 887	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 890	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 891	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 895	3.4	3.3	2.4	0.71	2.45	<=	6.98
<u>Block E - Ninth Floor</u>							
Window 896	3.4	3.3	2.4	0.71	2.45	<=	6.98
Window 900	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 903	3.8	3.2	2.4	0.69	2.77	<=	6.36
Window 904	5.3	2.7	2.4	0.71	4.17	<=	6.89
Window 908	3.4	3.3	2.4	0.71	2.45	<=	6.98
<u>Proposed House Terrace 1A</u>							
<u>House Terrace 1A First Floor</u>							
Window 918	2.9	2.7	2.1	0.71	2.46	<=	6.97
Window 923	2.8	4.8	2.1	0.7	1.92	<=	6.56
Window 924	2.8	4.8	2.1	0.7	1.92	<=	6.56
<u>Proposed House Terrace 1B</u>							
<u>House Terrace 1B First Floor</u>							
Window 936	2.9	2.7	2.1	0.71	2.46	<=	6.97
Window 939	2.8	4.8	2.1	0.7	1.92	<=	6.56
Window 940	2.8	4.8	2.1	0.7	1.92	<=	6.56
<u>Proposed House Terrace 2A</u>							
<u>House Terrace 2A Ground Floor</u>							
Window 949	3.6	2.6	2.1	0.72	3.1	<=	7.21
Window 950	3.6	2.6	2.1	0.72	3.1	<=	7.21
<u>House Terrace 2A First Floor</u>							
Window 963	2.9	2.7	2.1	0.71	2.46	<=	6.97
Window 964	4.3	2.6	2.1	0.71	3.7	<=	6.91
Window 965	4.3	2.6	2.1	0.71	3.7	<=	6.91
Window 966	2.9	2.7	2.1	0.71	2.46	<=	6.97
Window 971	2.8	4.8	2.1	0.7	1.92	<=	6.56
Window 972	2.8	4.8	2.1	0.7	1.92	<=	6.56
Window 973	2.7	4.8	2.1	0.7	1.85	<=	6.56
Window 974	2.7	4.8	2.1	0.7	1.85	<=	6.56

Appendix 2 - Room Depth Calculation
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Depth Coefficients				Room Depth Calculation		
	L	W	H	Rb	L/W + L/H	<=	2/1-Rb
<u>Proposed House Terrace 2B</u>							
<u>House Terrace 2B Ground Floor</u>							
Window 979	3.6	2.6	2.1	0.72	3.1	<=	7.21
Window 980	3.6	2.6	2.1	0.72	3.1	<=	7.21
<u>House Terrace 2B First Floor</u>							
Window 993	2.9	2.7	2.1	0.71	2.46	<=	6.97
Window 994	4.3	2.6	2.1	0.71	3.7	<=	6.91
Window 995	4.3	2.6	2.1	0.71	3.7	<=	6.91
Window 996	2.9	2.7	2.1	0.71	2.46	<=	6.97
Window 1001	2.7	4.8	2.1	0.7	1.85	<=	6.56
Window 1002	2.8	4.8	2.1	0.7	1.92	<=	6.56
Window 1003	2.7	4.8	2.1	0.7	1.85	<=	6.56
Window 1004	2.7	4.8	2.1	0.7	1.85	<=	6.56
<u>Proposed House Terrace 2C</u>							
<u>House Terrace 2C Ground Floor</u>							
Window 1017	3.6	2.6	2.1	0.72	3.1	<=	7.21
Window 1018	3.6	2.6	2.1	0.72	3.1	<=	7.21
<u>House Terrace 2C First Floor</u>							
Window 1019	2.9	2.7	2.1	0.71	2.46	<=	6.97
Window 1024	2.7	4.8	2.1	0.7	1.85	<=	6.56
Window 1025	2.7	4.8	2.1	0.7	1.85	<=	6.56
Window 1026	2.8	4.8	2.1	0.7	1.92	<=	6.56
Window 1027	2.8	4.8	2.1	0.7	1.92	<=	6.56
Window 1032	2.9	2.7	2.1	0.71	2.46	<=	6.97
Window 1033	4.3	2.6	2.1	0.71	3.7	<=	6.91
Window 1034	4.3	2.6	2.1	0.71	3.7	<=	6.91

Appendix 2 - Sunlight to Windows
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, Tp		APSH	
		Total	Winter	Total	Winter	Tp _{summer}	Tp _{winter}	Total	Winter
<u>Proposed Block A</u>									
<u>Block A - Ground Floor</u>									
Window 3	Living/Dining/Kitchen	16%	3%	16%	3%	0.2	0.55	16%	3%
Window 4	Living/Dining/Kitchen	10%	5%	10%	5%	0.2	0.55	10%	5%
Window 5	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 8	Living/Dining/Kitchen	62%	28%	62%	28%	0.2	0.55	62%	28%
Window 9	Living/Dining/Kitchen	14%	7%	14%	7%	0.2	0.55	14%	7%
Window 10	Living/Dining/Kitchen	25%	6%	25%	6%	0.2	0.55	25%	6%
Window 13	Living/Dining/Kitchen	2%	2%	2%	2%	0.2	0.55	2%	2%
Window 14	Living/Dining/Kitchen	30%	6%	30%	6%	0.2	0.55	30%	6%
Window 16	Living/Dining/Kitchen	25%	5%	25%	5%	0.2	0.55	25%	5%
Window 17	Living/Dining/Kitchen	3%	1%	3%	1%	0.2	0.55	3%	1%
Window 18	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
<u>Block A - First Floor</u>									
Window 21	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 22	Living/Dining/Kitchen	24%	5%	24%	5%	0.2	0.55	24%	5%
Window 24	Living/Dining/Kitchen	16%	3%	16%	3%	0.2	0.55	16%	3%
Window 25	Living/Dining/Kitchen	4%	3%	4%	3%	0.2	0.55	4%	3%
Window 26	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 29	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 30	Living/Dining/Kitchen	11%	6%	11%	6%	0.2	0.55	11%	6%
Window 31	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%
Window 34	Living/Dining/Kitchen	3%	3%	3%	3%	0.2	0.55	3%	3%
Window 35	Living/Dining/Kitchen	34%	8%	34%	8%	0.2	0.55	34%	8%
Window 37	Living/Dining/Kitchen	27%	6%	27%	6%	0.2	0.55	27%	6%
Window 38	Living/Dining/Kitchen	5%	2%	5%	2%	0.2	0.55	5%	2%
Window 39	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, Tp		APSH		
		Total	Winter	Total	Winter	Tp _{summer}	Tp _{winter}	Total	Winter	
Window 42	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%	
Window 43	Living/Dining/Kitchen	2%	0%	2%	0%	0.2	0.55	2%	0%	
Window 44	Living/Dining/Kitchen	13%	1%	13%	1%	0.2	0.55	13%	1%	
Window 47	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 48	Living/Dining/Kitchen	3%	0%	3%	0%	0.2	0.55	3%	0%	
Block A - Second Floor										
Window 50	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 51	Living/Dining/Kitchen	25%	5%	25%	5%	0.2	0.55	25%	5%	
Window 53	Living/Dining/Kitchen	17%	3%	17%	3%	0.2	0.55	17%	3%	
Window 54	Living/Dining/Kitchen	6%	3%	6%	3%	0.2	0.55	6%	3%	
Window 55	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%	
Window 58	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%	
Window 59	Living/Dining/Kitchen	11%	6%	11%	6%	0.2	0.55	11%	6%	
Window 60	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%	
Window 63	Living/Dining/Kitchen	3%	3%	3%	3%	0.2	0.55	3%	3%	
Window 64	Living/Dining/Kitchen	36%	10%	36%	10%	0.2	0.55	36%	10%	
Window 66	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%	
Window 67	Living/Dining/Kitchen	5%	2%	5%	2%	0.2	0.55	5%	2%	
Window 68	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%	
Window 71	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%	
Window 72	Living/Dining/Kitchen	4%	0%	4%	0%	0.2	0.55	4%	0%	
Window 73	Living/Dining/Kitchen	16%	2%	16%	2%	0.2	0.55	16%	2%	
Window 76	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 77	Living/Dining/Kitchen	4%	0%	4%	0%	0.2	0.55	4%	0%	
Block A - Third Floor										
Window 79	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 80	Living/Dining/Kitchen	27%	5%	27%	5%	0.2	0.55	27%	5%	

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, Tp		APSH	
		Total	Winter	Total	Winter	Tp _{summer}	Tp _{winter}	Total	Winter
Window 82	Living/Dining/Kitchen	19%	3%	19%	3%	0.2	0.55	19%	3%
Window 83	Living/Dining/Kitchen	7%	3%	7%	3%	0.2	0.55	7%	3%
Window 84	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 87	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 88	Living/Dining/Kitchen	11%	6%	11%	6%	0.2	0.55	11%	6%
Window 89	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%
Window 92	Living/Dining/Kitchen	3%	3%	3%	3%	0.2	0.55	3%	3%
Window 93	Living/Dining/Kitchen	36%	10%	36%	10%	0.2	0.55	36%	10%
Window 95	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%
Window 96	Living/Dining/Kitchen	5%	2%	5%	2%	0.2	0.55	5%	2%
Window 97	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
Window 100	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
Window 101	Living/Dining/Kitchen	5%	0%	5%	0%	0.2	0.55	5%	0%
Window 102	Living/Dining/Kitchen	18%	2%	18%	2%	0.2	0.55	18%	2%
Window 105	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 106	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%

Block A - Fourth Floor

Window 108	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 109	Living/Dining/Kitchen	28%	5%	28%	5%	0.2	0.55	28%	5%
Window 111	Living/Dining/Kitchen	20%	3%	20%	3%	0.2	0.55	20%	3%
Window 112	Living/Dining/Kitchen	11%	3%	11%	3%	0.2	0.55	11%	3%
Window 113	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 116	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 117	Living/Dining/Kitchen	15%	7%	15%	7%	0.2	0.55	15%	7%
Window 118	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%
Window 121	Living/Dining/Kitchen	9%	9%	9%	9%	0.2	0.55	9%	9%
Window 122	Living/Dining/Kitchen	36%	10%	36%	10%	0.2	0.55	36%	10%
Window 124	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, Tp		APSH		
		Total	Winter	Total	Winter	Tp _{summer}	Tp _{winter}	Total	Winter	
Window 125	Living/Dining/Kitchen	9%	2%	9%	2%	0.2	0.55	9%	2%	
Window 126	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%	
Window 129	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%	
Window 130	Living/Dining/Kitchen	5%	0%	5%	0%	0.2	0.55	5%	0%	
Window 131	Living/Dining/Kitchen	20%	3%	20%	3%	0.2	0.55	20%	3%	
Window 134	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 135	Living/Dining/Kitchen	13%	0%	13%	0%	0.2	0.55	13%	0%	
<u>Proposed Block B</u>										
<u>Block B - Ground Floor</u>										
Window 137	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 138	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%	
Window 139	Living/Dining/Kitchen	7%	0%	7%	0%	0.2	0.55	7%	0%	
Window 141	Living/Dining/Kitchen	17%	2%	17%	2%	0.2	0.55	17%	2%	
Window 142	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 145	Living/Dining/Kitchen	11%	0%	11%	0%	0.2	0.55	11%	0%	
Window 146	Living/Dining/Kitchen	2%	2%	2%	2%	0.2	0.55	2%	2%	
Window 147	Living/Dining/Kitchen	22%	7%	22%	7%	0.2	0.55	22%	7%	
Window 150	Living/Dining/Kitchen	28%	9%	28%	9%	0.2	0.55	28%	9%	
Window 151	Living/Dining/Kitchen	5%	3%	5%	3%	0.2	0.55	5%	3%	
Window 152	Living/Dining/Kitchen	24%	3%	24%	3%	0.2	0.55	24%	3%	
<u>Block B - First Floor</u>										
Window 156	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 157	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%	
Window 158	Living/Dining/Kitchen	10%	0%	10%	0%	0.2	0.55	10%	0%	
Window 160	Living/Dining/Kitchen	18%	2%	18%	2%	0.2	0.55	18%	2%	
Window 161	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 164	Living/Dining/Kitchen	14%	0%	14%	0%	0.2	0.55	14%	0%	
Window 165	Living/Dining/Kitchen	1%	1%	1%	1%	0.2	0.55	1%	1%	

Appendix 2 - Sunlight to Windows
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, T _p		APSH	
		Total	Winter	Total	Winter	T _{psummer}	T _{pwinter}	Total	Winter
Window 166	Living/Dining/Kitchen	27%	7%	27%	7%	0.2	0.55	27%	7%
Window 169	Living/Dining/Kitchen	28%	9%	28%	9%	0.2	0.55	28%	9%
Window 170	Living/Dining/Kitchen	5%	3%	5%	3%	0.2	0.55	5%	3%
Window 171	Living/Dining/Kitchen	25%	4%	25%	4%	0.2	0.55	25%	4%
Window 173	Living/Dining/Kitchen	33%	7%	33%	7%	0.2	0.55	33%	7%
Window 174	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 176	Living/Dining/Kitchen	17%	2%	17%	2%	0.2	0.55	17%	2%
Window 177	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 180	Living/Dining/Kitchen	27%	6%	27%	6%	0.2	0.55	27%	6%
Window 181	Living/Dining/Kitchen	9%	2%	9%	2%	0.2	0.55	9%	2%
Window 182	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
<u>Block B - Second Floor</u>									
Window 185	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 186	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
Window 187	Living/Dining/Kitchen	11%	0%	11%	0%	0.2	0.55	11%	0%
Window 189	Living/Dining/Kitchen	19%	2%	19%	2%	0.2	0.55	19%	2%
Window 190	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 193	Living/Dining/Kitchen	16%	0%	16%	0%	0.2	0.55	16%	0%
Window 194	Living/Dining/Kitchen	1%	1%	1%	1%	0.2	0.55	1%	1%
Window 195	Living/Dining/Kitchen	30%	7%	30%	7%	0.2	0.55	30%	7%
Window 198	Living/Dining/Kitchen	31%	9%	31%	9%	0.2	0.55	31%	9%
Window 199	Living/Dining/Kitchen	5%	3%	5%	3%	0.2	0.55	5%	3%
Window 200	Living/Dining/Kitchen	26%	5%	26%	5%	0.2	0.55	26%	5%
Window 202	Living/Dining/Kitchen	34%	8%	34%	8%	0.2	0.55	34%	8%
Window 203	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 205	Living/Dining/Kitchen	17%	2%	17%	2%	0.2	0.55	17%	2%
Window 206	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 209	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, Tp		APSH	
		Total	Winter	Total	Winter	Tp _{summer}	Tp _{winter}	Total	Winter
Window 210	Living/Dining/Kitchen	9%	2%	9%	2%	0.2	0.55	9%	2%
Window 211	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%

Block B - Third Floor

Window 214	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 215	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
Window 216	Living/Dining/Kitchen	12%	0%	12%	0%	0.2	0.55	12%	0%
Window 218	Living/Dining/Kitchen	20%	2%	20%	2%	0.2	0.55	20%	2%
Window 219	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 222	Living/Dining/Kitchen	19%	1%	19%	1%	0.2	0.55	19%	1%
Window 223	Living/Dining/Kitchen	1%	1%	1%	1%	0.2	0.55	1%	1%
Window 224	Living/Dining/Kitchen	35%	12%	35%	12%	0.2	0.55	35%	12%
Window 227	Living/Dining/Kitchen	36%	13%	36%	13%	0.2	0.55	36%	13%
Window 228	Living/Dining/Kitchen	6%	4%	6%	4%	0.2	0.55	6%	4%
Window 229	Living/Dining/Kitchen	27%	6%	27%	6%	0.2	0.55	27%	6%
Window 231	Living/Dining/Kitchen	35%	9%	35%	9%	0.2	0.55	35%	9%
Window 232	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 234	Living/Dining/Kitchen	17%	2%	17%	2%	0.2	0.55	17%	2%
Window 235	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 238	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%
Window 239	Living/Dining/Kitchen	9%	2%	9%	2%	0.2	0.55	9%	2%
Window 240	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%

Block B - Fourth Floor

Window 243	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 244	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
Window 245	Living/Dining/Kitchen	14%	1%	14%	1%	0.2	0.55	14%	1%
Window 247	Living/Dining/Kitchen	23%	3%	23%	3%	0.2	0.55	23%	3%
Window 248	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, Tp		APSH	
		Total	Winter	Total	Winter	Tp _{summer}	Tp _{winter}	Total	Winter
Window 251	Living/Dining/Kitchen	20%	1%	20%	1%	0.2	0.55	20%	1%
Window 252	Living/Dining/Kitchen	3%	2%	3%	2%	0.2	0.55	3%	2%
Window 253	Living/Dining/Kitchen	39%	16%	39%	16%	0.2	0.55	39%	16%
Window 256	Living/Dining/Kitchen	40%	17%	40%	17%	0.2	0.55	40%	17%
Window 257	Living/Dining/Kitchen	7%	5%	7%	5%	0.2	0.55	7%	5%
Window 258	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%
Window 260	Living/Dining/Kitchen	36%	10%	36%	10%	0.2	0.55	36%	10%
Window 261	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 263	Living/Dining/Kitchen	17%	2%	17%	2%	0.2	0.55	17%	2%
Window 264	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 267	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%
Window 268	Living/Dining/Kitchen	9%	2%	9%	2%	0.2	0.55	9%	2%
Window 269	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Block B - Fifth Floor									
Window 272	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 273	Living/Dining/Kitchen	2%	0%	2%	0%	0.2	0.55	2%	0%
Window 274	Living/Dining/Kitchen	18%	2%	18%	2%	0.2	0.55	18%	2%
Window 276	Living/Dining/Kitchen	24%	4%	24%	4%	0.2	0.55	24%	4%
Window 277	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 280	Living/Dining/Kitchen	22%	3%	22%	3%	0.2	0.55	22%	3%
Window 281	Living/Dining/Kitchen	3%	2%	3%	2%	0.2	0.55	3%	2%
Window 282	Living/Dining/Kitchen	45%	22%	45%	22%	0.2	0.55	45%	22%
Window 285	Living/Dining/Kitchen	45%	22%	45%	22%	0.2	0.55	45%	22%
Window 286	Living/Dining/Kitchen	7%	5%	7%	5%	0.2	0.55	7%	5%
Window 287	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%
Window 289	Living/Dining/Kitchen	36%	10%	36%	10%	0.2	0.55	36%	10%
Window 290	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 292	Living/Dining/Kitchen	17%	2%	17%	2%	0.2	0.55	17%	2%

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, Tp		APSH		
		Total	Winter	Total	Winter	Tp _{summer}	Tp _{winter}	Total	Winter	
Window 293	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 296	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%	
Window 297	Living/Dining/Kitchen	9%	2%	9%	2%	0.2	0.55	9%	2%	
Window 298	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Block B - Sixth Floor										
Window 301	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 302	Living/Dining/Kitchen	4%	0%	4%	0%	0.2	0.55	4%	0%	
Window 303	Living/Dining/Kitchen	20%	3%	20%	3%	0.2	0.55	20%	3%	
Window 305	Living/Dining/Kitchen	25%	5%	25%	5%	0.2	0.55	25%	5%	
Window 306	Living/Dining/Kitchen	24%	13%	24%	13%	0.2	0.55	24%	13%	
Window 309	Living/Dining/Kitchen	22%	3%	22%	3%	0.2	0.55	22%	3%	
Window 310	Living/Dining/Kitchen	3%	2%	3%	2%	0.2	0.55	3%	2%	
Window 311	Living/Dining/Kitchen	45%	22%	45%	22%	0.2	0.55	45%	22%	
Window 314	Living/Dining/Kitchen	45%	22%	45%	22%	0.2	0.55	45%	22%	
Window 315	Living/Dining/Kitchen	7%	5%	7%	5%	0.2	0.55	7%	5%	
Window 316	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%	
Window 318	Living/Dining/Kitchen	36%	10%	36%	10%	0.2	0.55	36%	10%	
Window 319	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 321	Living/Dining/Kitchen	17%	2%	17%	2%	0.2	0.55	17%	2%	
Window 322	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 325	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%	
Window 326	Living/Dining/Kitchen	9%	2%	9%	2%	0.2	0.55	9%	2%	
Window 327	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Block B - Seventh Floor										
Window 330	Living/Dining/Kitchen	22%	3%	22%	3%	0.2	0.55	22%	3%	
Window 331	Living/Dining/Kitchen	28%	5%	28%	5%	0.2	0.55	28%	5%	
Window 332	Living/Dining/Kitchen	45%	22%	45%	22%	0.2	0.55	45%	22%	

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, T _p		APSH	
		Total	Winter	Total	Winter	T _{psummer}	T _{pwinter}	Total	Winter
Window 335	Living/Dining/Kitchen	45%	22%	45%	22%	0.2	0.55	45%	22%
Window 336	Living/Dining/Kitchen	32%	10%	32%	10%	0.2	0.55	32%	10%
Window 337	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%
Window 339	Living/Dining/Kitchen	36%	10%	36%	10%	0.2	0.55	36%	10%
Window 340	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Proposed Block C									
<u>Block C - Ground Floor</u>									
Window 344	Living/Dining/Kitchen	20%	0%	20%	0%	0.2	0.55	20%	0%
Window 345	Living/Dining/Kitchen	6%	0%	6%	0%	0.2	0.55	6%	0%
Window 346	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
<u>Block C - First Floor</u>									
Window 349	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
Window 350	Living/Dining/Kitchen	3%	0%	3%	0%	0.2	0.55	3%	0%
Window 351	Living/Dining/Kitchen	14%	3%	14%	3%	0.2	0.55	14%	3%
Window 354	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 355	Living/Dining/Kitchen	24%	5%	24%	5%	0.2	0.55	24%	5%
Window 357	Living/Dining/Kitchen	16%	3%	16%	3%	0.2	0.55	16%	3%
Window 358	Living/Dining/Kitchen	4%	3%	4%	3%	0.2	0.55	4%	3%
Window 359	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 362	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 363	Living/Dining/Kitchen	9%	6%	9%	6%	0.2	0.55	9%	6%
Window 364	Living/Dining/Kitchen	25%	7%	25%	7%	0.2	0.55	25%	7%
Window 367	Living/Dining/Kitchen	5%	5%	5%	5%	0.2	0.55	5%	5%
Window 368	Living/Dining/Kitchen	28%	8%	28%	8%	0.2	0.55	28%	8%
Window 370	Living/Dining/Kitchen	7%	7%	7%	7%	0.2	0.55	7%	7%
Window 371	Living/Dining/Kitchen	32%	7%	32%	7%	0.2	0.55	32%	7%
Window 373	Living/Dining/Kitchen	23%	2%	23%	2%	0.2	0.55	23%	2%
Window 374	Living/Dining/Kitchen	7%	0%	7%	0%	0.2	0.55	7%	0%

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, Tp		APSH	
		Total	Winter	Total	Winter	Tp _{summer}	Tp _{winter}	Total	Winter
Window 375	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
<u>Block C - Second Floor</u>									
Window 378	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
Window 379	Living/Dining/Kitchen	3%	0%	3%	0%	0.2	0.55	3%	0%
Window 380	Living/Dining/Kitchen	17%	3%	17%	3%	0.2	0.55	17%	3%
Window 383	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 384	Living/Dining/Kitchen	24%	5%	24%	5%	0.2	0.55	24%	5%
Window 386	Living/Dining/Kitchen	16%	3%	16%	3%	0.2	0.55	16%	3%
Window 387	Living/Dining/Kitchen	5%	3%	5%	3%	0.2	0.55	5%	3%
Window 388	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 391	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 392	Living/Dining/Kitchen	10%	6%	10%	6%	0.2	0.55	10%	6%
Window 393	Living/Dining/Kitchen	27%	7%	27%	7%	0.2	0.55	27%	7%
Window 396	Living/Dining/Kitchen	5%	5%	5%	5%	0.2	0.55	5%	5%
Window 397	Living/Dining/Kitchen	30%	8%	30%	8%	0.2	0.55	30%	8%
Window 399	Living/Dining/Kitchen	8%	8%	8%	8%	0.2	0.55	8%	8%
Window 400	Living/Dining/Kitchen	33%	7%	33%	7%	0.2	0.55	33%	7%
Window 402	Living/Dining/Kitchen	24%	3%	24%	3%	0.2	0.55	24%	3%
Window 403	Living/Dining/Kitchen	7%	0%	7%	0%	0.2	0.55	7%	0%
Window 404	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
<u>Block C - Third Floor</u>									
Window 407	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
Window 408	Living/Dining/Kitchen	4%	0%	4%	0%	0.2	0.55	4%	0%
Window 409	Living/Dining/Kitchen	19%	3%	19%	3%	0.2	0.55	19%	3%
Window 412	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 413	Living/Dining/Kitchen	27%	5%	27%	5%	0.2	0.55	27%	5%
Window 415	Living/Dining/Kitchen	19%	3%	19%	3%	0.2	0.55	19%	3%

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, Tp		APSH	
		Total	Winter	Total	Winter	Tp _{summer}	Tp _{winter}	Total	Winter
Window 416	Living/Dining/Kitchen	6%	3%	6%	3%	0.2	0.55	6%	3%
Window 417	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 420	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 421	Living/Dining/Kitchen	10%	6%	10%	6%	0.2	0.55	10%	6%
Window 422	Living/Dining/Kitchen	27%	7%	27%	7%	0.2	0.55	27%	7%
Window 425	Living/Dining/Kitchen	5%	5%	5%	5%	0.2	0.55	5%	5%
Window 426	Living/Dining/Kitchen	32%	9%	32%	9%	0.2	0.55	32%	9%
Window 428	Living/Dining/Kitchen	8%	8%	8%	8%	0.2	0.55	8%	8%
Window 429	Living/Dining/Kitchen	34%	8%	34%	8%	0.2	0.55	34%	8%
Window 431	Living/Dining/Kitchen	26%	5%	26%	5%	0.2	0.55	26%	5%
Window 432	Living/Dining/Kitchen	8%	1%	8%	1%	0.2	0.55	8%	1%
Window 433	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
<u>Block C - Fourth Floor</u>									
Window 436	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
Window 437	Living/Dining/Kitchen	5%	0%	5%	0%	0.2	0.55	5%	0%
Window 438	Living/Dining/Kitchen	20%	3%	20%	3%	0.2	0.55	20%	3%
Window 441	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 442	Living/Dining/Kitchen	28%	5%	28%	5%	0.2	0.55	28%	5%
Window 444	Living/Dining/Kitchen	20%	3%	20%	3%	0.2	0.55	20%	3%
Window 445	Living/Dining/Kitchen	7%	3%	7%	3%	0.2	0.55	7%	3%
Window 446	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 449	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 450	Living/Dining/Kitchen	11%	6%	11%	6%	0.2	0.55	11%	6%
Window 451	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%
Window 454	Living/Dining/Kitchen	5%	5%	5%	5%	0.2	0.55	5%	5%
Window 455	Living/Dining/Kitchen	33%	10%	33%	10%	0.2	0.55	33%	10%
Window 457	Living/Dining/Kitchen	8%	8%	8%	8%	0.2	0.55	8%	8%
Window 458	Living/Dining/Kitchen	36%	9%	36%	9%	0.2	0.55	36%	9%

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, Tp		APSH	
		Total	Winter	Total	Winter	Tp _{summer}	Tp _{winter}	Total	Winter
Window 460	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%
Window 461	Living/Dining/Kitchen	9%	2%	9%	2%	0.2	0.55	9%	2%
Window 462	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
<u>Block C - Fifth Floor</u>									
Window 465	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
Window 466	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 467	Living/Dining/Kitchen	20%	3%	20%	3%	0.2	0.55	20%	3%
Window 470	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 471	Living/Dining/Kitchen	28%	5%	28%	5%	0.2	0.55	28%	5%
Window 473	Living/Dining/Kitchen	20%	3%	20%	3%	0.2	0.55	20%	3%
Window 474	Living/Dining/Kitchen	7%	3%	7%	3%	0.2	0.55	7%	3%
Window 475	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 478	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 479	Living/Dining/Kitchen	11%	6%	11%	6%	0.2	0.55	11%	6%
Window 480	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%
Window 483	Living/Dining/Kitchen	4%	4%	4%	4%	0.2	0.55	4%	4%
Window 484	Living/Dining/Kitchen	35%	10%	35%	10%	0.2	0.55	35%	10%
Window 486	Living/Dining/Kitchen	11%	9%	11%	9%	0.2	0.55	11%	9%
Window 487	Living/Dining/Kitchen	37%	10%	37%	10%	0.2	0.55	37%	10%
Window 489	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%
Window 490	Living/Dining/Kitchen	13%	2%	13%	2%	0.2	0.55	13%	2%
Window 491	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
<u>Proposed Block D</u>									
<u>Block D - Ground Floor</u>									
Window 494	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 495	Living/Dining/Kitchen	6%	0%	6%	0%	0.2	0.55	6%	0%
Window 496	Living/Dining/Kitchen	21%	3%	21%	3%	0.2	0.55	21%	3%

Appendix 2 - Sunlight to Windows
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, Tp		APSH		
		Total	Winter	Total	Winter	Tp _{summer}	Tp _{winter}	Total	Winter	
<u>Block D - First Floor</u>										
Window 499	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 500	Living/Dining/Kitchen	6%	0%	6%	0%	0.2	0.55	6%	0%	
Window 501	Living/Dining/Kitchen	21%	3%	21%	3%	0.2	0.55	21%	3%	
Window 504	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 505	Living/Dining/Kitchen	30%	6%	30%	6%	0.2	0.55	30%	6%	
Window 507	Living/Dining/Kitchen	21%	3%	21%	3%	0.2	0.55	21%	3%	
Window 508	Living/Dining/Kitchen	10%	4%	10%	4%	0.2	0.55	10%	4%	
Window 509	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%	
Window 512	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%	
Window 513	Living/Dining/Kitchen	9%	6%	9%	6%	0.2	0.55	9%	6%	
Window 514	Living/Dining/Kitchen	24%	7%	24%	7%	0.2	0.55	24%	7%	
Window 517	Living/Dining/Kitchen	6%	5%	6%	5%	0.2	0.55	6%	5%	
Window 518	Living/Dining/Kitchen	27%	8%	27%	8%	0.2	0.55	27%	8%	
Window 520	Living/Dining/Kitchen	2%	2%	2%	2%	0.2	0.55	2%	2%	
Window 521	Living/Dining/Kitchen	29%	7%	29%	7%	0.2	0.55	29%	7%	
Window 523	Living/Dining/Kitchen	21%	4%	21%	4%	0.2	0.55	21%	4%	
Window 524	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%	
Window 525	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
<u>Block D - Second Floor</u>										
Window 528	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 529	Living/Dining/Kitchen	6%	0%	6%	0%	0.2	0.55	6%	0%	
Window 530	Living/Dining/Kitchen	21%	3%	21%	3%	0.2	0.55	21%	3%	
Window 533	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 534	Living/Dining/Kitchen	30%	6%	30%	6%	0.2	0.55	30%	6%	
Window 536	Living/Dining/Kitchen	21%	3%	21%	3%	0.2	0.55	21%	3%	
Window 537	Living/Dining/Kitchen	10%	4%	10%	4%	0.2	0.55	10%	4%	
Window 538	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%	

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, Tp		APSH	
		Total	Winter	Total	Winter	Tp _{summer}	Tp _{winter}	Total	Winter
Window 541	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 542	Living/Dining/Kitchen	9%	6%	9%	6%	0.2	0.55	9%	6%
Window 543	Living/Dining/Kitchen	26%	7%	26%	7%	0.2	0.55	26%	7%
Window 546	Living/Dining/Kitchen	6%	5%	6%	5%	0.2	0.55	6%	5%
Window 547	Living/Dining/Kitchen	28%	8%	28%	8%	0.2	0.55	28%	8%
Window 549	Living/Dining/Kitchen	2%	2%	2%	2%	0.2	0.55	2%	2%
Window 550	Living/Dining/Kitchen	30%	7%	30%	7%	0.2	0.55	30%	7%
Window 552	Living/Dining/Kitchen	23%	4%	23%	4%	0.2	0.55	23%	4%
Window 553	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
Window 554	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%

Block D - Third Floor

Window 557	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 558	Living/Dining/Kitchen	6%	0%	6%	0%	0.2	0.55	6%	0%
Window 559	Living/Dining/Kitchen	21%	3%	21%	3%	0.2	0.55	21%	3%
Window 562	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 563	Living/Dining/Kitchen	30%	6%	30%	6%	0.2	0.55	30%	6%
Window 565	Living/Dining/Kitchen	21%	3%	21%	3%	0.2	0.55	21%	3%
Window 566	Living/Dining/Kitchen	10%	4%	10%	4%	0.2	0.55	10%	4%
Window 567	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 570	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 571	Living/Dining/Kitchen	10%	6%	10%	6%	0.2	0.55	10%	6%
Window 572	Living/Dining/Kitchen	26%	7%	26%	7%	0.2	0.55	26%	7%
Window 575	Living/Dining/Kitchen	6%	5%	6%	5%	0.2	0.55	6%	5%
Window 576	Living/Dining/Kitchen	30%	9%	30%	9%	0.2	0.55	30%	9%
Window 578	Living/Dining/Kitchen	2%	2%	2%	2%	0.2	0.55	2%	2%
Window 579	Living/Dining/Kitchen	30%	7%	30%	7%	0.2	0.55	30%	7%
Window 581	Living/Dining/Kitchen	24%	5%	24%	5%	0.2	0.55	24%	5%
Window 582	Living/Dining/Kitchen	2%	1%	2%	1%	0.2	0.55	2%	1%

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, Tp		APSH	
		Total	Winter	Total	Winter	Tp _{summer}	Tp _{winter}	Total	Winter
Window 583	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
<u>Block D - Fourth Floor</u>									
Window 586	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 587	Living/Dining/Kitchen	6%	0%	6%	0%	0.2	0.55	6%	0%
Window 588	Living/Dining/Kitchen	21%	3%	21%	3%	0.2	0.55	21%	3%
Window 591	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 592	Living/Dining/Kitchen	30%	6%	30%	6%	0.2	0.55	30%	6%
Window 594	Living/Dining/Kitchen	21%	3%	21%	3%	0.2	0.55	21%	3%
Window 595	Living/Dining/Kitchen	10%	4%	10%	4%	0.2	0.55	10%	4%
Window 596	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 599	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 600	Living/Dining/Kitchen	11%	6%	11%	6%	0.2	0.55	11%	6%
Window 601	Living/Dining/Kitchen	27%	7%	27%	7%	0.2	0.55	27%	7%
Window 604	Living/Dining/Kitchen	6%	5%	6%	5%	0.2	0.55	6%	5%
Window 605	Living/Dining/Kitchen	31%	9%	31%	9%	0.2	0.55	31%	9%
Window 607	Living/Dining/Kitchen	2%	2%	2%	2%	0.2	0.55	2%	2%
Window 608	Living/Dining/Kitchen	33%	8%	33%	8%	0.2	0.55	33%	8%
Window 610	Living/Dining/Kitchen	25%	5%	25%	5%	0.2	0.55	25%	5%
Window 611	Living/Dining/Kitchen	3%	1%	3%	1%	0.2	0.55	3%	1%
Window 612	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
<u>Block D - Fifth Floor</u>									
Window 615	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 616	Living/Dining/Kitchen	6%	0%	6%	0%	0.2	0.55	6%	0%
Window 617	Living/Dining/Kitchen	21%	3%	21%	3%	0.2	0.55	21%	3%
Window 620	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 621	Living/Dining/Kitchen	30%	6%	30%	6%	0.2	0.55	30%	6%
Window 623	Living/Dining/Kitchen	21%	3%	21%	3%	0.2	0.55	21%	3%

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, Tp		APSH	
		Total	Winter	Total	Winter	Tp _{summer}	Tp _{winter}	Total	Winter
Window 624	Living/Dining/Kitchen	10%	4%	10%	4%	0.2	0.55	10%	4%
Window 625	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 628	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 629	Living/Dining/Kitchen	11%	6%	11%	6%	0.2	0.55	11%	6%
Window 630	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%
Window 633	Living/Dining/Kitchen	6%	5%	6%	5%	0.2	0.55	6%	5%
Window 634	Living/Dining/Kitchen	34%	10%	34%	10%	0.2	0.55	34%	10%
Window 636	Living/Dining/Kitchen	2%	2%	2%	2%	0.2	0.55	2%	2%
Window 637	Living/Dining/Kitchen	35%	10%	35%	10%	0.2	0.55	35%	10%
Window 639	Living/Dining/Kitchen	27%	7%	27%	7%	0.2	0.55	27%	7%
Window 640	Living/Dining/Kitchen	5%	2%	5%	2%	0.2	0.55	5%	2%
Window 641	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
<u>Block D - Sixth Floor</u>									
Window 644	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
Window 645	Living/Dining/Kitchen	6%	0%	6%	0%	0.2	0.55	6%	0%
Window 646	Living/Dining/Kitchen	21%	3%	21%	3%	0.2	0.55	21%	3%
Window 649	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%
Window 650	Living/Dining/Kitchen	30%	6%	30%	6%	0.2	0.55	30%	6%
Window 652	Living/Dining/Kitchen	21%	3%	21%	3%	0.2	0.55	21%	3%
Window 653	Living/Dining/Kitchen	13%	4%	13%	4%	0.2	0.55	13%	4%
Window 654	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 657	Living/Dining/Kitchen	56%	28%	56%	28%	0.2	0.55	56%	28%
Window 658	Living/Dining/Kitchen	15%	7%	15%	7%	0.2	0.55	15%	7%
Window 659	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%
Window 662	Living/Dining/Kitchen	6%	5%	6%	5%	0.2	0.55	6%	5%
Window 663	Living/Dining/Kitchen	34%	10%	34%	10%	0.2	0.55	34%	10%
Window 665	Living/Dining/Kitchen	10%	8%	10%	8%	0.2	0.55	10%	8%
Window 666	Living/Dining/Kitchen	36%	10%	36%	10%	0.2	0.55	36%	10%

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, T _p		APSH	
		Total	Winter	Total	Winter	T _{psummer}	T _{pwinter}	Total	Winter
Window 668	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%
Window 669	Living/Dining/Kitchen	9%	2%	9%	2%	0.2	0.55	9%	2%
Window 670	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
<u>Proposed Block E</u>									
<u>Block E - First Floor</u>									
Window 673	Living/Dining/Kitchen	10%	0%	10%	0%	0.2	0.55	10%	0%
Window 674	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
Window 675	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 677	Living/Dining/Kitchen	12%	0%	12%	0%	0.2	0.55	12%	0%
Window 678	Living/Dining/Kitchen	6%	0%	6%	0%	0.2	0.55	6%	0%
Window 681	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 682	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 683	Living/Dining/Kitchen	29%	5%	29%	5%	0.2	0.55	29%	5%
Window 684	Living/Dining/Kitchen	4%	4%	4%	4%	0.2	0.55	4%	4%
Window 687	Living/Dining/Kitchen	21%	3%	21%	3%	0.2	0.55	21%	3%
Window 688	Living/Dining/Kitchen	9%	3%	9%	3%	0.2	0.55	9%	3%
Window 689	Living/Dining/Kitchen	20%	8%	20%	8%	0.2	0.55	20%	8%
Window 692	Living/Dining/Kitchen	18%	10%	18%	10%	0.2	0.55	18%	10%
Window 693	Living/Dining/Kitchen	5%	4%	5%	4%	0.2	0.55	5%	4%
Window 694	Living/Dining/Kitchen	18%	3%	18%	3%	0.2	0.55	18%	3%
Window 696	Living/Dining/Kitchen	7%	2%	7%	2%	0.2	0.55	7%	2%
Window 697	Living/Dining/Kitchen	10%	3%	10%	3%	0.2	0.55	10%	3%
Window 701	Living/Dining/Kitchen	26%	11%	26%	11%	0.2	0.55	26%	11%
Window 702	Living/Dining/Kitchen	7%	1%	7%	1%	0.2	0.55	7%	1%
Window 703	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
<u>Block E - Second Floor</u>									
Window 706	Living/Dining/Kitchen	10%	0%	10%	0%	0.2	0.55	10%	0%
Window 707	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, Tp		APSH	
		Total	Winter	Total	Winter	Tp _{summer}	Tp _{winter}	Total	Winter
Window 708	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 710	Living/Dining/Kitchen	12%	0%	12%	0%	0.2	0.55	12%	0%
Window 711	Living/Dining/Kitchen	9%	3%	9%	3%	0.2	0.55	9%	3%
Window 714	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 715	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 716	Living/Dining/Kitchen	29%	5%	29%	5%	0.2	0.55	29%	5%
Window 717	Living/Dining/Kitchen	4%	4%	4%	4%	0.2	0.55	4%	4%
Window 720	Living/Dining/Kitchen	21%	3%	21%	3%	0.2	0.55	21%	3%
Window 721	Living/Dining/Kitchen	9%	3%	9%	3%	0.2	0.55	9%	3%
Window 722	Living/Dining/Kitchen	21%	8%	21%	8%	0.2	0.55	21%	8%
Window 725	Living/Dining/Kitchen	21%	11%	21%	11%	0.2	0.55	21%	11%
Window 726	Living/Dining/Kitchen	8%	6%	8%	6%	0.2	0.55	8%	6%
Window 727	Living/Dining/Kitchen	20%	5%	20%	5%	0.2	0.55	20%	5%
Window 729	Living/Dining/Kitchen	8%	2%	8%	2%	0.2	0.55	8%	2%
Window 730	Living/Dining/Kitchen	11%	3%	11%	3%	0.2	0.55	11%	3%
Window 734	Living/Dining/Kitchen	32%	13%	32%	13%	0.2	0.55	32%	13%
Window 735	Living/Dining/Kitchen	7%	1%	7%	1%	0.2	0.55	7%	1%
Window 736	Living/Dining/Kitchen	10%	0%	10%	0%	0.2	0.55	10%	0%

Block E - Third Floor

Window 739	Living/Dining/Kitchen	10%	0%	10%	0%	0.2	0.55	10%	0%
Window 740	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
Window 741	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 743	Living/Dining/Kitchen	12%	0%	12%	0%	0.2	0.55	12%	0%
Window 744	Living/Dining/Kitchen	4%	3%	4%	3%	0.2	0.55	4%	3%
Window 747	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 748	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 749	Living/Dining/Kitchen	29%	5%	29%	5%	0.2	0.55	29%	5%
Window 750	Living/Dining/Kitchen	4%	4%	4%	4%	0.2	0.55	4%	4%

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, T _p		APSH	
		Total	Winter	Total	Winter	T _{psummer}	T _{pwinter}	Total	Winter
Window 753	Living/Dining/Kitchen	21%	3%	21%	3%	0.2	0.55	21%	3%
Window 754	Living/Dining/Kitchen	9%	3%	9%	3%	0.2	0.55	9%	3%
Window 755	Living/Dining/Kitchen	27%	8%	27%	8%	0.2	0.55	27%	8%
Window 758	Living/Dining/Kitchen	29%	12%	29%	12%	0.2	0.55	29%	12%
Window 759	Living/Dining/Kitchen	10%	7%	10%	7%	0.2	0.55	10%	7%
Window 760	Living/Dining/Kitchen	22%	5%	22%	5%	0.2	0.55	22%	5%
Window 762	Living/Dining/Kitchen	9%	2%	9%	2%	0.2	0.55	9%	2%
Window 763	Living/Dining/Kitchen	13%	3%	13%	3%	0.2	0.55	13%	3%
Window 767	Living/Dining/Kitchen	33%	14%	33%	14%	0.2	0.55	33%	14%
Window 768	Living/Dining/Kitchen	9%	3%	9%	3%	0.2	0.55	9%	3%
Window 769	Living/Dining/Kitchen	10%	0%	10%	0%	0.2	0.55	10%	0%

Block E - Fourth Floor

Window 772	Living/Dining/Kitchen	10%	0%	10%	0%	0.2	0.55	10%	0%
Window 773	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
Window 774	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 776	Living/Dining/Kitchen	12%	0%	12%	0%	0.2	0.55	12%	0%
Window 777	Living/Dining/Kitchen	9%	3%	9%	3%	0.2	0.55	9%	3%
Window 780	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 781	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 782	Living/Dining/Kitchen	29%	5%	29%	5%	0.2	0.55	29%	5%
Window 783	Living/Dining/Kitchen	4%	4%	4%	4%	0.2	0.55	4%	4%
Window 786	Living/Dining/Kitchen	21%	3%	21%	3%	0.2	0.55	21%	3%
Window 787	Living/Dining/Kitchen	9%	3%	9%	3%	0.2	0.55	9%	3%
Window 788	Living/Dining/Kitchen	32%	8%	32%	8%	0.2	0.55	32%	8%
Window 791	Living/Dining/Kitchen	34%	12%	34%	12%	0.2	0.55	34%	12%
Window 792	Living/Dining/Kitchen	10%	7%	10%	7%	0.2	0.55	10%	7%
Window 793	Living/Dining/Kitchen	24%	6%	24%	6%	0.2	0.55	24%	6%
Window 795	Living/Dining/Kitchen	11%	2%	11%	2%	0.2	0.55	11%	2%

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, Tp		APSH	
		Total	Winter	Total	Winter	Tp _{summer}	Tp _{winter}	Total	Winter
Window 796	Living/Dining/Kitchen	15%	3%	15%	3%	0.2	0.55	15%	3%
Window 800	Living/Dining/Kitchen	35%	14%	35%	14%	0.2	0.55	35%	14%
Window 801	Living/Dining/Kitchen	10%	3%	10%	3%	0.2	0.55	10%	3%
Window 802	Living/Dining/Kitchen	10%	0%	10%	0%	0.2	0.55	10%	0%
<u>Block E - Fifth Floor</u>									
Window 805	Living/Dining/Kitchen	10%	0%	10%	0%	0.2	0.55	10%	0%
Window 806	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
Window 807	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 809	Living/Dining/Kitchen	12%	0%	12%	0%	0.2	0.55	12%	0%
Window 810	Living/Dining/Kitchen	9%	3%	9%	3%	0.2	0.55	9%	3%
Window 813	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 814	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 815	Living/Dining/Kitchen	29%	5%	29%	5%	0.2	0.55	29%	5%
Window 816	Living/Dining/Kitchen	4%	4%	4%	4%	0.2	0.55	4%	4%
Window 819	Living/Dining/Kitchen	21%	3%	21%	3%	0.2	0.55	21%	3%
Window 820	Living/Dining/Kitchen	9%	3%	9%	3%	0.2	0.55	9%	3%
Window 821	Living/Dining/Kitchen	41%	16%	41%	16%	0.2	0.55	41%	16%
Window 824	Living/Dining/Kitchen	43%	18%	43%	18%	0.2	0.55	43%	18%
Window 825	Living/Dining/Kitchen	12%	8%	12%	8%	0.2	0.55	12%	8%
Window 826	Living/Dining/Kitchen	27%	7%	27%	7%	0.2	0.55	27%	7%
Window 828	Living/Dining/Kitchen	11%	2%	11%	2%	0.2	0.55	11%	2%
Window 829	Living/Dining/Kitchen	17%	4%	17%	4%	0.2	0.55	17%	4%
Window 833	Living/Dining/Kitchen	37%	15%	37%	15%	0.2	0.55	37%	15%
Window 834	Living/Dining/Kitchen	11%	4%	11%	4%	0.2	0.55	11%	4%
Window 835	Living/Dining/Kitchen	10%	0%	10%	0%	0.2	0.55	10%	0%
<u>Block E - Sixth Floor</u>									
Window 838	Living/Dining/Kitchen	10%	0%	10%	0%	0.2	0.55	10%	0%

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, Tp		APSH	
		Total	Winter	Total	Winter	Tp _{summer}	Tp _{winter}	Total	Winter
Window 839	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
Window 840	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 842	Living/Dining/Kitchen	12%	0%	12%	0%	0.2	0.55	12%	0%
Window 843	Living/Dining/Kitchen	9%	3%	9%	3%	0.2	0.55	9%	3%
Window 846	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 847	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 848	Living/Dining/Kitchen	29%	5%	29%	5%	0.2	0.55	29%	5%
Window 849	Living/Dining/Kitchen	4%	4%	4%	4%	0.2	0.55	4%	4%
Window 852	Living/Dining/Kitchen	21%	3%	21%	3%	0.2	0.55	21%	3%
Window 853	Living/Dining/Kitchen	9%	3%	9%	3%	0.2	0.55	9%	3%
Window 854	Living/Dining/Kitchen	51%	26%	51%	26%	0.2	0.55	51%	26%
Window 857	Living/Dining/Kitchen	50%	25%	50%	25%	0.2	0.55	50%	25%
Window 858	Living/Dining/Kitchen	19%	9%	19%	9%	0.2	0.55	19%	9%
Window 859	Living/Dining/Kitchen	28%	7%	28%	7%	0.2	0.55	28%	7%
Window 861	Living/Dining/Kitchen	14%	2%	14%	2%	0.2	0.55	14%	2%
Window 862	Living/Dining/Kitchen	20%	4%	20%	4%	0.2	0.55	20%	4%
Window 866	Living/Dining/Kitchen	37%	14%	37%	14%	0.2	0.55	37%	14%
Window 867	Living/Dining/Kitchen	12%	5%	12%	5%	0.2	0.55	12%	5%
Window 868	Living/Dining/Kitchen	10%	0%	10%	0%	0.2	0.55	10%	0%

Block E - Seventh Floor

Window 871	Living/Dining/Kitchen	10%	0%	10%	0%	0.2	0.55	10%	0%
Window 872	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%
Window 873	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%
Window 875	Living/Dining/Kitchen	12%	0%	12%	0%	0.2	0.55	12%	0%
Window 876	Living/Dining/Kitchen	10%	4%	10%	4%	0.2	0.55	10%	4%
Window 879	Living/Dining/Kitchen	39%	16%	39%	16%	0.2	0.55	39%	16%
Window 880	Living/Dining/Kitchen	13%	6%	13%	6%	0.2	0.55	13%	6%
Window 881	Living/Dining/Kitchen	10%	0%	10%	0%	0.2	0.55	10%	0%

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, T _p		APSH		
		Total	Winter	Total	Winter	T _{psummer}	T _{pwinter}	Total	Winter	
<u>Block E - Eighth Floor</u>										
Window 884	Living/Dining/Kitchen	10%	0%	10%	0%	0.2	0.55	10%	0%	
Window 885	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%	
Window 886	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%	
Window 888	Living/Dining/Kitchen	12%	0%	12%	0%	0.2	0.55	12%	0%	
Window 889	Living/Dining/Kitchen	10%	4%	10%	4%	0.2	0.55	10%	4%	
Window 892	Living/Dining/Kitchen	39%	16%	39%	16%	0.2	0.55	39%	16%	
Window 893	Living/Dining/Kitchen	13%	6%	13%	6%	0.2	0.55	13%	6%	
Window 894	Living/Dining/Kitchen	10%	0%	10%	0%	0.2	0.55	10%	0%	
<u>Block E - Ninth Floor</u>										
Window 897	Living/Dining/Kitchen	10%	0%	10%	0%	0.2	0.55	10%	0%	
Window 898	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%	
Window 899	Living/Dining/Kitchen	8%	0%	8%	0%	0.2	0.55	8%	0%	
Window 901	Living/Dining/Kitchen	12%	0%	12%	0%	0.2	0.55	12%	0%	
Window 902	Living/Dining/Kitchen	28%	6%	28%	6%	0.2	0.55	28%	6%	
Window 905	Living/Dining/Kitchen	39%	16%	39%	16%	0.2	0.55	39%	16%	
Window 906	Living/Dining/Kitchen	36%	9%	36%	9%	0.2	0.55	36%	9%	
Window 907	Living/Dining/Kitchen	10%	0%	10%	0%	0.2	0.55	10%	0%	
<u>Proposed House Terrace 1A</u>										
<u>House Terrace 1A Ground Floor</u>										
Window 909	Living/Dining/Kitchen	33%	9%	33%	9%	0.2	0.55	33%	9%	
Window 910	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%	
Window 911	Living/Dining/Kitchen	1%	0%	1%	0%	0.2	0.55	1%	0%	
Window 912	Living/Dining/Kitchen	18%	3%	18%	3%	0.2	0.55	18%	3%	
Window 913	Living/Dining	14%	0%	14%	0%	0.2	0.55	14%	0%	
Window 914	Living/Dining	18%	3%	18%	3%	0.2	0.55	18%	3%	
Window 915	Living/Dining	32%	17%	32%	17%	0.2	0.55	32%	17%	

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, Tp		APSH		
		Total	Winter	Total	Winter	Tp _{summer}	Tp _{winter}	Total	Winter	
<u>Proposed House Terrace 1B</u>										
House Terrace 1B Ground Floor										
Window 929	Living/Dining	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 930	Living/Dining	20%	5%	20%	5%	0.2	0.55	20%	5%	
Window 931	Living/Dining	14%	0%	14%	0%	0.2	0.55	14%	0%	
Window 932	Living/Dining/Kitchen	20%	5%	20%	5%	0.2	0.55	20%	5%	
Window 933	Living/Dining/Kitchen	27%	23%	27%	23%	0.2	0.55	27%	23%	
Window 934	Living/Dining/Kitchen	44%	23%	44%	23%	0.2	0.55	44%	23%	
Window 935	Living/Dining/Kitchen	32%	10%	32%	10%	0.2	0.55	32%	10%	
<u>Proposed House Terrace 2A</u>										
House Terrace 2A Ground Floor										
Window 945	Living/Dining/Kitchen	26%	7%	26%	7%	0.2	0.55	26%	7%	
Window 946	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 947	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 948	Living/Dining/Kitchen	21%	2%	21%	2%	0.2	0.55	21%	2%	
Window 951	Living/Dining/Kitchen	13%	1%	13%	1%	0.2	0.55	13%	1%	
Window 952	Living/Dining/Kitchen	14%	4%	14%	4%	0.2	0.55	14%	4%	
Window 953	Living/Dining/Kitchen	16%	15%	16%	15%	0.2	0.55	16%	15%	
Window 954	Living/Dining/Kitchen	21%	6%	21%	6%	0.2	0.55	21%	6%	
Window 955	Living/Dining	17%	1%	17%	1%	0.2	0.55	17%	1%	
Window 956	Living/Dining	23%	6%	23%	6%	0.2	0.55	23%	6%	
Window 957	Living/Dining	24%	6%	24%	6%	0.2	0.55	24%	6%	
Window 958	Living/Dining	20%	1%	20%	1%	0.2	0.55	20%	1%	
<u>Proposed House Terrace 2B</u>										
House Terrace 2B Ground Floor										
Window 975	Living/Dining/Kitchen	25%	7%	25%	7%	0.2	0.55	25%	7%	
Window 976	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	

Appendix 2 - Sunlight to Windows

Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

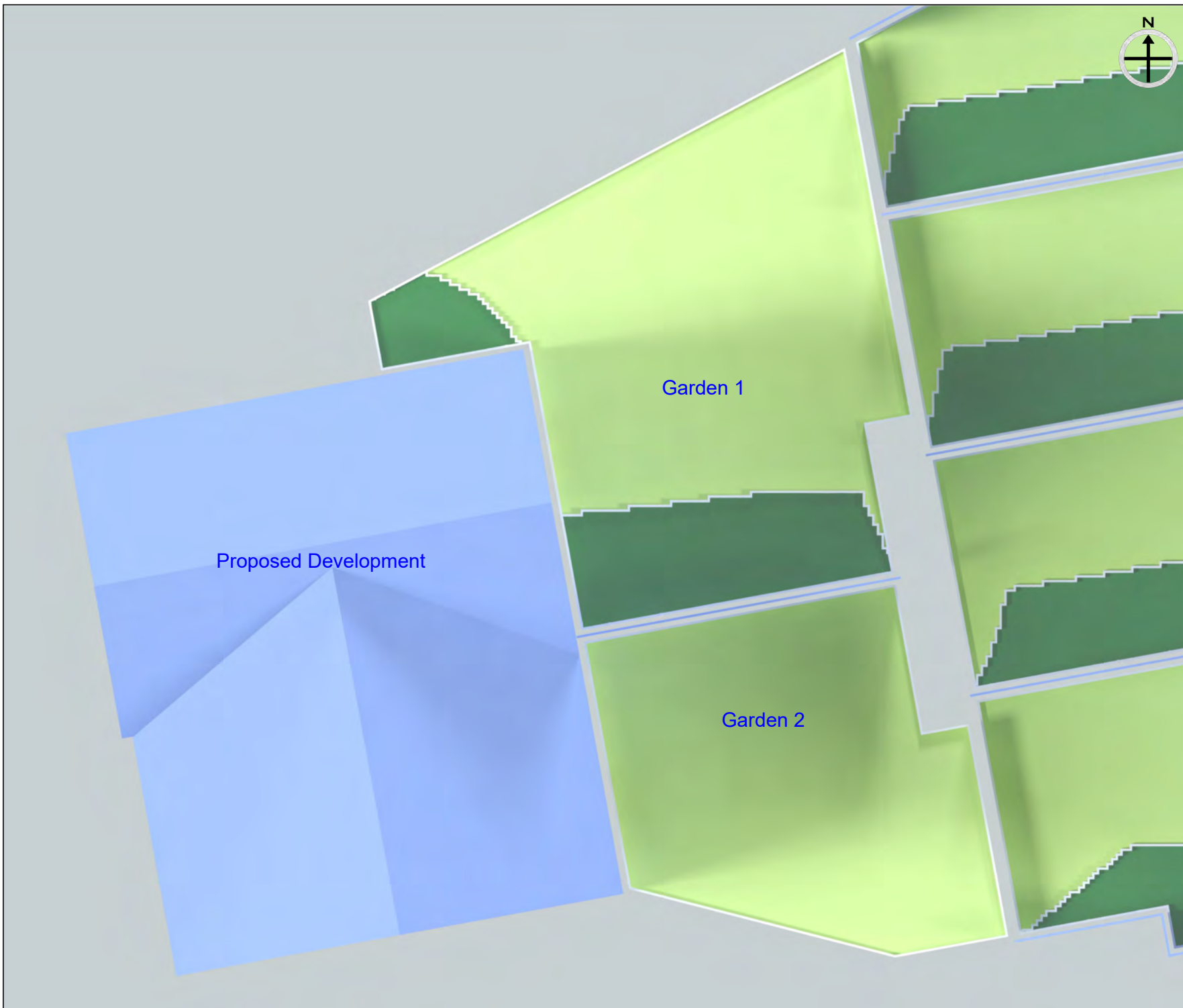
Reference	Room Use	APSH _{no trees}		APSH _{opaque tree}		Transparency, Tp		APSH		
		Total	Winter	Total	Winter	Tp _{summer}	Tp _{winter}	Total	Winter	
Window 977	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 978	Living/Dining/Kitchen	18%	4%	18%	4%	0.2	0.55	18%	4%	
Window 981	Living/Dining/Kitchen	22%	5%	22%	5%	0.2	0.55	22%	5%	
Window 982	Living/Dining/Kitchen	44%	23%	44%	23%	0.2	0.55	44%	23%	
Window 983	Living/Dining/Kitchen	27%	23%	27%	23%	0.2	0.55	27%	23%	
Window 984	Living/Dining/Kitchen	26%	9%	26%	9%	0.2	0.55	26%	9%	
Window 985	Living/Dining	20%	1%	20%	1%	0.2	0.55	20%	1%	
Window 986	Living/Dining	25%	7%	25%	7%	0.2	0.55	25%	7%	
Window 987	Living/Dining	25%	7%	25%	7%	0.2	0.55	25%	7%	
Window 988	Living/Dining	21%	1%	21%	1%	0.2	0.55	21%	1%	
<u>Proposed House Terrace 2C</u>										
<u>House Terrace 2C Ground Floor</u>										
Window 1005	Living/Dining/Kitchen	34%	10%	34%	10%	0.2	0.55	34%	10%	
Window 1006	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 1007	Living/Dining/Kitchen	0%	0%	0%	0%	0.2	0.55	0%	0%	
Window 1008	Living/Dining/Kitchen	20%	4%	20%	4%	0.2	0.55	20%	4%	
Window 1009	Living/Dining	15%	0%	15%	0%	0.2	0.55	15%	0%	
Window 1010	Living/Dining	21%	5%	21%	5%	0.2	0.55	21%	5%	
Window 1011	Living/Dining	21%	5%	21%	5%	0.2	0.55	21%	5%	
Window 1012	Living/Dining	14%	0%	14%	0%	0.2	0.55	14%	0%	
Window 1013	Living/Dining/Kitchen	20%	5%	20%	5%	0.2	0.55	20%	5%	
Window 1014	Living/Dining/Kitchen	27%	23%	27%	23%	0.2	0.55	27%	23%	
Window 1015	Living/Dining/Kitchen	44%	23%	44%	23%	0.2	0.55	44%	23%	
Window 1016	Living/Dining/Kitchen	34%	10%	34%	10%	0.2	0.55	34%	10%	

Appendix 2 - Overshadowing to Gardens and Open Spaces
Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB

Reference	Total Area	Area receiving at least 2 hours of sunlight on 21 March (opaque trees)	
<u>Proposed House Terrace 1A</u>			
<u>House Terrace 1A Ground Floor</u>			
Garden 1	79.24 m ²	60.8 m ²	77%
Garden 2	50.01 m ²	50.01 m ²	100%
<u>Proposed House Terrace 1B</u>			
<u>House Terrace 1B Ground Floor</u>			
Garden 3	48.77 m ²	30.11 m ²	62%
Garden 4	83.59 m ²	83.59 m ²	100%
<u>Proposed House Terrace 2A</u>			
<u>House Terrace 2A Ground Floor</u>			
Garden 5	38.4 m ²	23.63 m ²	62%
Garden 6	39.19 m ²	24.37 m ²	62%
Garden 7	39.2 m ²	25.33 m ²	65%
Garden 8	44.38 m ²	32.57 m ²	73%
<u>Proposed House Terrace 2B</u>			
<u>House Terrace 2B Ground Floor</u>			
Garden 9	56.45 m ²	39.76 m ²	70%
Garden 10	51.11 m ²	31.26 m ²	61%
Garden 11	51.12 m ²	32.93 m ²	64%
Garden 12	61.55 m ²	47.55 m ²	77%
<u>Proposed House Terrace 2C</u>			
<u>House Terrace 2C Ground Floor</u>			
Garden 13	78.93 m ²	58.92 m ²	75%
Garden 14	34.41 m ²	19.66 m ²	57%
Garden 15	34.39 m ²	18.75 m ²	55%
Garden 16	77.78 m ²	58.79 m ²	76%

APPENDIX 3

OVERSHADOWING TO GARDENS AND OPEN SPACES



Key

- Receives under two hours sunlight on 21st March before and after the development.
- Receives at least two hours sunlight on 21st March before and after the development.

Proposed Development

Garden 1

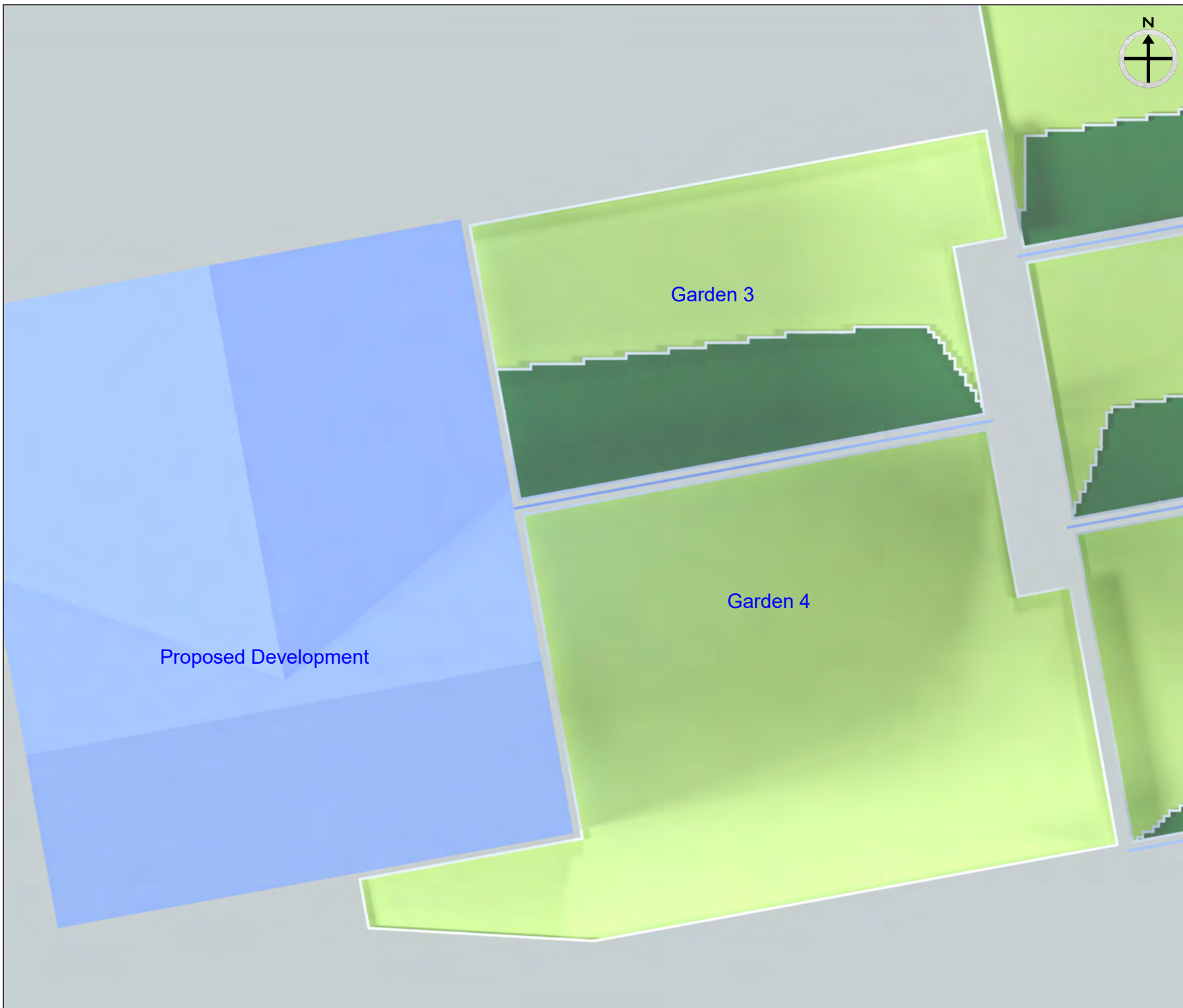
Garden 2

Project Name: Chapel Gate (Car Park 14), Basildon, Essex SS15 5AB



Drawing Title: Appendix 3 - Overshadowing to Gardens and Open Spaces



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Key

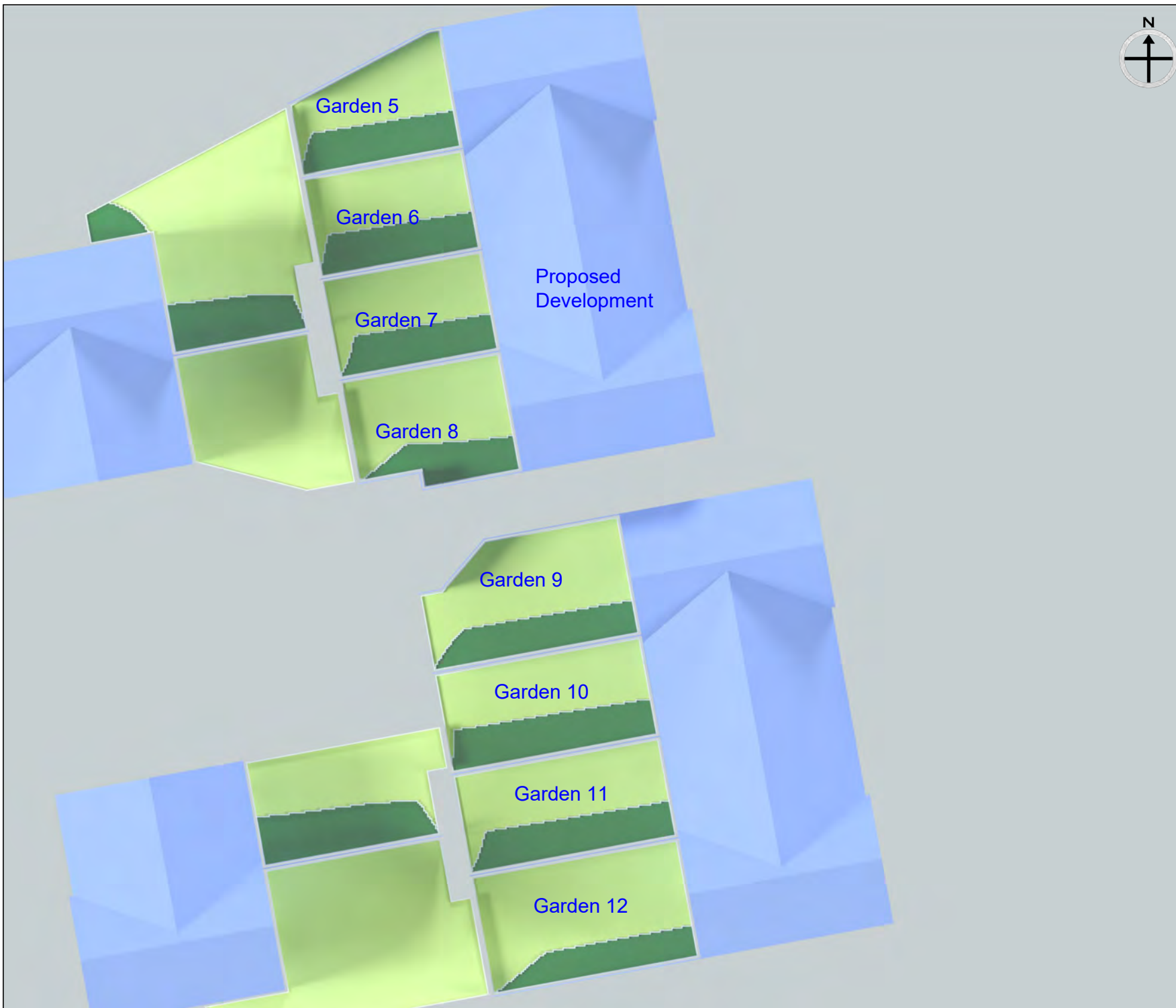
-  Receives under two hours sunlight on 21st March before and after the development.
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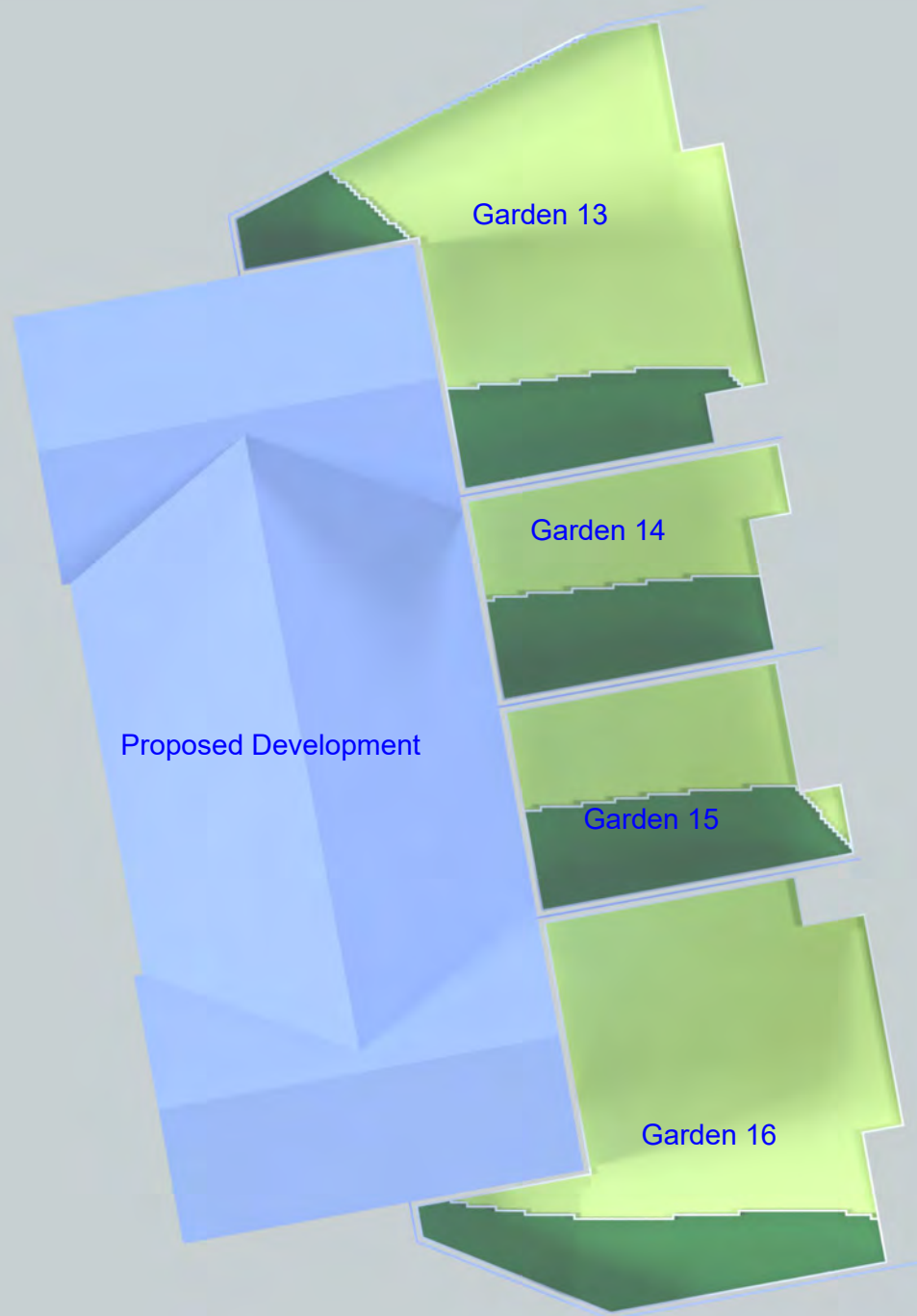
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