

Daylight and Sunlight Study (Neighbouring Properties)

52 Bury Old Road, Prestwich, Manchester, M25 0ER

25 October 2024

Smith Marston Building Surveyors

DAYLIGHT AND SUNLIGHT STUDY
24045 - 52 Bury Old Road, Prestwich, Manchester, M25 0ER

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1 EXECUTIVE SUMMARY

1.1 Overview

- 1.1.1 Smith Marston Building Surveyors have been commissioned by Bilal Mosque to undertake a daylight and sunlight study of the proposed development at 52 Bury Old Road, Prestwich, Manchester, M25 0ER.
- 1.1.2 The study is based on 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, 3rd Edition' 2022.
- 1.1.3 The aim of the study is to assess the impact of the development on the light receivable by the neighbouring residential properties at 2 & 4 Woodthorpe Grange.
- 1.1.4 The images in Appendix 1 identify the windows we have assessed. Appendix 2 gives the numerical results of the various daylight and sunlight tests. Overshadowing to gardens and opens spaces data and contour drawings are provided in Appendix 3. No Sky Line contours illustrating daylight distribution are shown in Appendix 4.
- 1.1.5 All neighbouring windows (that have a requirement for daylight or sunlight) pass the relevant BRE diffuse daylight and direct sunlight tests. All neighbouring amenity areas also pass the BRE overshadowing to gardens and open spaces test.
- 1.1.6 In summary, the numerical results in this assessment demonstrate that the proposed development will have a very low impact on the light receivable by its neighbouring properties. In our opinion, the proposed development sufficiently safeguards the daylight and sunlight amenity of the neighbouring properties.
- 1.1.7 The proposed development is consistent with the local, national and regional planning policy, which seeks to ensure the efficient use of land whilst ensuring that acceptable living standards will be maintained.
- 1.1.8 Having regard to the complete level of compliance with the BRE recommendations, planning policy, and the development context we are of the opinion that there are no daylight, sunlight and overshadowing reason for which planning permission should be refused.

2 INFORMATION SOURCES

2.1 Drawings

2.1.1 This report is based on the following drawings:

SGS Surveys Ltd.

SGS-BCS-001	Topographical Survey	Rev A
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Lumitekton

LU281 – P08A	Proposed Elevations	Rev B
LU281 – P06C	Proposed Floor Plans	Rev C
LU281 – P05F	Proposed Site Plan	Rev F
LU281 – P07D	Proposed Site Sections	Rev D
LU281 – P02A	Existing Site Plan	Rev A
LU281 – P01C	Site Plans	Rev C

2.1.2 The relative positions of the neighbouring houses and windows were located by use of a Nikon Total Station, linking these buildings to information on the topographical survey.

2.2 Daylight Distribution Room Layout Information

2.2.1 The daylight distribution test for Number 4 Woodthorpe Grange has been based on the room layout information found on Rightmove. No plans were found for Number 2.

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, by P J Littlefair 2011. This report is based on the 3rd edition of the BRE guide which was published on 8 June 2022.
- 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."
- 3.1.4 In reference to applying different numerical target values in different locations, the BRE guide states:
- 3.1.5 "These values are purely advisory and different targets may be used based on the special requirements of the proposed development or its location."

3.2 National Planning Policy Framework

- 3.2.1 The BRE numerical guidelines should be considered in the context of the revised 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 National Planning Practice Guidance

- 3.3.1 The BRE numerical guidelines should also be considered in the context of the National Planning Practice Guidance (NPPG). The NPPG states that developments should maintain acceptable living standards. It goes on to explain that what this means in practice is that appropriate levels of sunlight and daylight, will depend to some extent on the context for the development. This is consistent with the BRE guide which as noted in paragraphs 3.1.4 to 3.1.5 above, states that site location is a relevant factor when setting sunlight and daylight targets.

3.4 Daylight to Windows

- 3.4.1 Diffuse daylight is the light received from the sun which has been diffused through the sky. Even on a cloudy day, when the sun is not visible, a room will continue to be lit with light from the sky. This is diffuse daylight.
- 3.4.2 Diffuse daylight calculations should be undertaken to all rooms within domestic properties, where daylight is required, including living rooms, kitchens and bedrooms. The BRE guide states that windows to bathrooms, toilets, storerooms, circulation areas and garages need not be analysed. These room types are non-habitable and do not have a requirement for daylight.
- 3.4.3 The BRE guide contains two tests which measure diffuse daylight:

Test 1 Vertical Sky Component

- 3.4.4 The Vertical Sky Component is a measure of available skylight at a given point on a vertical plane. Diffuse daylight may be adversely affected if after a development the Vertical Sky Component is both less than 27% and less than 0.8 times its former value.
- 3.4.5 The BRE guide states that the total amount of skylight can be calculated by finding the Vertical Sky Component at the centre of each main window. However, the guide states that if there would be a significant loss of light to the main window but the room also has one or more smaller windows, an overall Vertical Sky Component may be

derived by weighting each Vertical Sky Component element in accordance with the proportion of the total glazing area represented by its window.

Test 2 Daylight Distribution

- 3.4.6 The distribution of daylight within a room can be calculated by plotting the 'no sky line'. The no sky line is a line which separates areas of the working plane that do and do not have a direct view of the sky. Daylight may be adversely affected if, after the development, the area of the working plane in a room which can receive direct skylight is reduced to less than 0.8 times its former value.
- 3.4.7 The BRE guide states that both the total amount of skylight (Vertical Sky Component) and its distribution within the building (Daylight Distribution) are important. The BRE guide states that the daylight distribution calculation can only be carried out where room layouts are known. It states that using estimated room layouts is likely to give inaccurate results and is not recommended. Therefore, we don't endorse the practice of applying the test based on assumed room layouts. However, we can provide additional daylight distribution data upon request by the local authority, if neighbouring room layout information is confirmed.

3.5 Sunlight Availability to Windows

- 3.5.1 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 BRE guide states that kitchens and bedrooms are less important, although care should be taken not to block too much sunlight. It also states that normally loss of sunlight need not be analysed to kitchens and bedrooms, except for bedrooms which also comprise a living space. The tests should also be applied to non-domestic buildings where there is a particular requirement for sunlight.
- 3.5.2 The test is intended to be applied to main windows which face within 90 degrees of due south. However, the BRE guide explains that if the main window faces within 90 degrees due north, but a secondary window faces within 90 degrees due south, sunlight to the secondary window should be checked. For completeness, we have tested all windows which face within 90 degrees of due south. The BRE guide states that sunlight availability may be adversely affected if the centre of the window:

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

3.6 Overshadowing to Gardens and Open Spaces

3.6.1 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.

3.6.2 One way to consider overshadowing is by preparing shadow plots. However, the BRE guide states that it must be borne in mind that nearly all structures will create areas of new shadow, and some degree of transient overshadowing is to be expected. Therefore, shadow plots are of limited use as interpretation of the plots is subjective. Shadow plots have not been undertaken as part of this study.

3.6.3 The BRE guide also contains an objective overshadowing test which has been adopted for the purpose of this study. This guide recommends that at least 50% of the area of each amenity space listed above should receive at least two hours of sunlight on 21 March. If as a result of new development an existing garden or amenity area does not meet the above, and the area which can receive two hours of

sunlight on 21 March is less than 0.8 times its former value, then the loss of light is likely to be noticeable.

4 RESULTS OF THE STUDY

4.1 Windows & Amenity Areas Considered

- 4.1.1 The aim of the study is to assess the impact of the development on the light receivable by the neighbouring residential properties at 2 and 4 Woodthorpe Grange.
- 4.1.2 Appendix 1 provides a plan and photographs to indicate the positions of the windows and outdoor amenity areas analysed in this study. Appendix 2 lists the detailed numerical daylight and sunlight test results. Overshadowing to gardens and open spaces data and contour drawings are provided in Appendix 3. No Sky Line contours illustrating daylight distribution are shown in Appendix 4.

4.2 Daylight to Windows

Vertical Sky Component

- 4.2.1 All windows at 2 and 4 Woodthorpe Grange with a requirement for daylight pass the Vertical Sky Component test.

Daylight Distribution

- 4.2.2 We have undertaken the Daylight Distribution test where room layouts are known. All rooms with a requirement for daylight pass the daylight distribution test.

4.3 Sunlight to Windows

- 4.3.1 All windows that face within 90 degrees of due south have been tested for direct sunlight. All windows with a requirement for sunlight pass both the total annual sunlight hours test and the winter sunlight hours test. The proposed development therefore satisfies the BRE direct sunlight to windows requirements.

4.4 Overshadowing to Gardens and Open Spaces

- 4.4.1 All gardens and open spaces tested meet the BRE recommendations.

4.5 Conclusion

- 4.5.1 In summary, the numerical results in this study demonstrate that the proposed development will have a very low impact on the light receivable by its neighbouring properties. In our opinion, the proposed development sufficiently safeguards the daylight and sunlight amenity of the neighbouring properties.

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 assessment is limited to assessing daylight, sunlight and overshadowing to neighbouring windows, gardens and open spaces as set out in section 2.2, 3.2 and 3.3 of the BRE Guide.
- 5.1.3 The study is based on the information listed in section 2 of this report and a site visit undertaken on 5 October 2024. We have not had access to neighbouring properties.
- 5.1.4 This assessment does not calculate the effects of trees and hedges on daylight, sunlight and overshadowing to gardens. The BRE guide states that it is usual to ignore the effect of existing trees.
- 5.1.5 We have undertaken the study following the guidelines of the RICS publication “Surveying Safely”. Where limited access or information is available, assumptions will have been made which may affect the conclusions reached in this report. For example, where neighbouring room uses are not known, we will either make an assumption regarding the use, or take the prudent approach of treating the use of the room as being used for domestic purposes. Therefore, the report may need to be updated if room uses are confirmed by the local authority or by the consultation responses.
- 5.1.6 This report is based upon and subject to the scope of work set out in Smith Marston Building Surveyor’s quotation and standard terms and conditions.

APPENDICES

APPENDIX 1
WINDOW KEY & GARDEN KEY

Woodthorpe Grange

4 Woodthorpe Grange

2 Woodthorpe Grange



Key



Proposed Development



Neighbouring Properties



Neighbouring Gardens and
Amenity Areas

Proposed
Development

Bury Old Road

Rev	Date	Description

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Drawing Title: 3D Window & Garden Key

Scale: Do not scale

Woodthorpe Grange

2 Woodthorpe Grange

4 Woodthorpe Grange

Proposed
Development

Bury Old Road

View From South East

Key



Proposed Development



Neighbouring Properties

Rev	Date	Description

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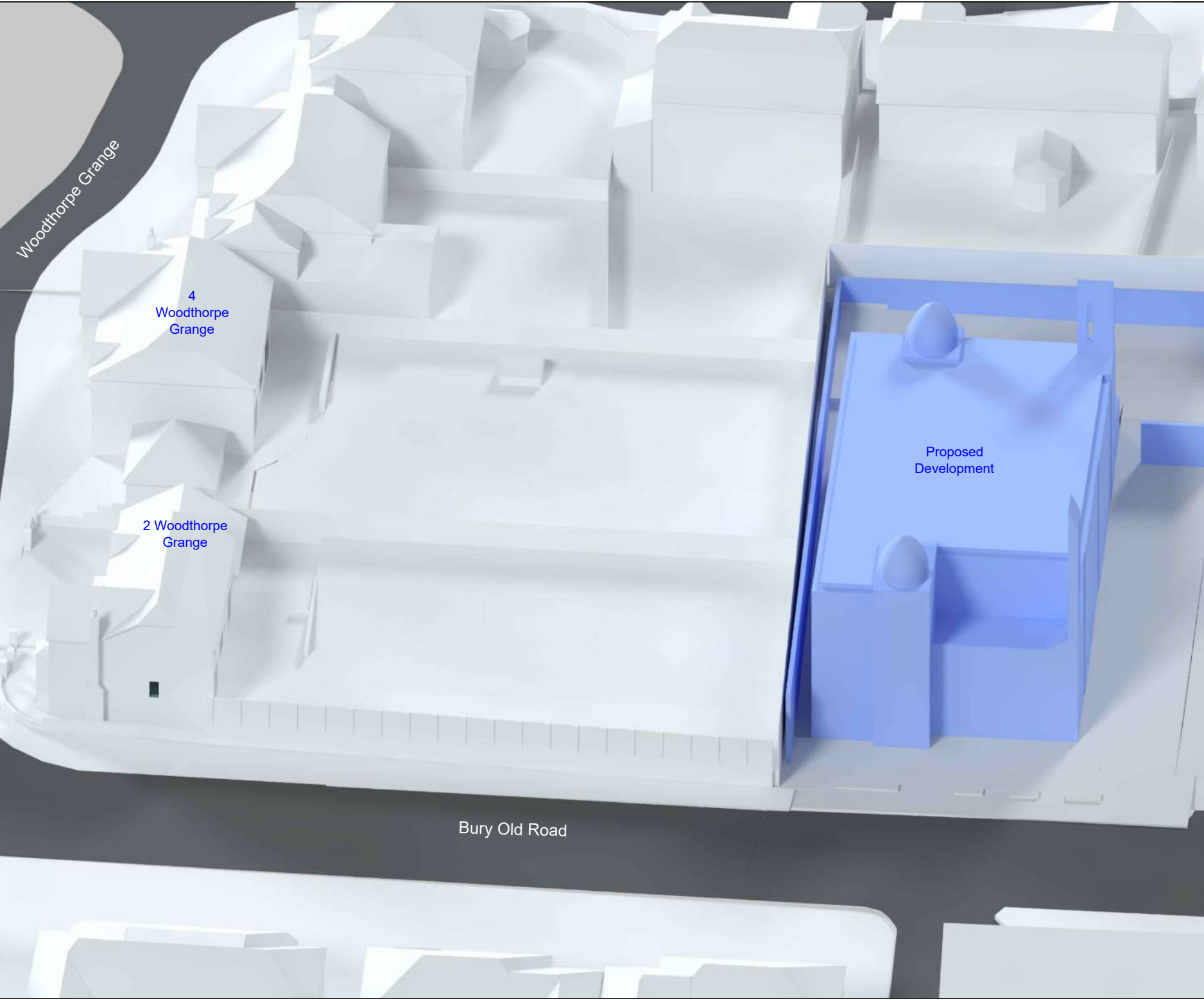
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Drawing Title: 3D Window & Garden Key

Scale: Do not scale



View From South West

Key

- Proposed Development
- Neighbouring Properties

Rev	Date	Description

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Drawing Title: 3D Window & Garden Key

Scale: Do not scale

Key

- Proposed Development
- Neighbouring Properties

Proposed Development

Bury Old Road

2 Woodthorpe Grange

4 Woodthorpe Grange

Rev	Date	Description

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Drawing Title: 3D Window & Garden Key

Scale: Do not scale

Key

- Proposed Development
- Neighbouring Properties

Proposed Development

4 Woodthorpe Grange

2 Woodthorpe Grange

Bury Old Road

Woodthorpe Grange

Rev	Date	Description
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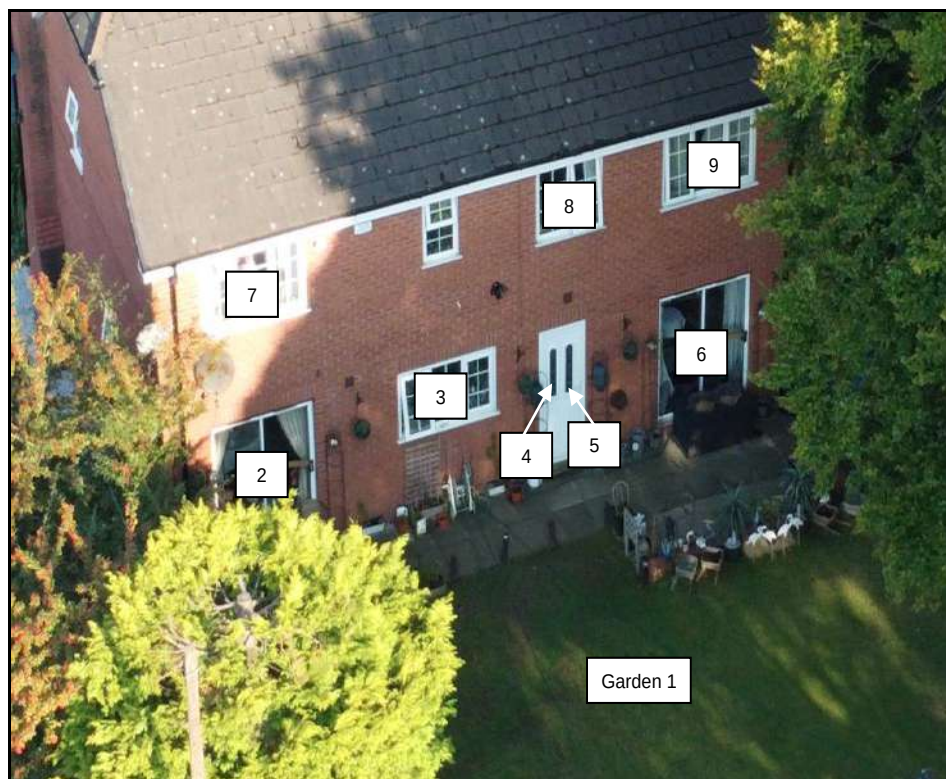
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Neighbouring Windows



2 Woodthorpe Grange



2 Woodthorpe Grange



4 Woodthorpe Grange

APPENDIX 2
DAYLIGHT AND SUNLIGHT CALCULATIONS

Appendix 2 - Vertical Sky Component
52 Bury Old Road, Prestwich, Manchester, M25 0ER

Reference	Room Use	Vertical Sky Component			
		Before	After	Loss	Ratio
<u>2 Woodthorpe Grange</u>					
<u>Ground Floor</u>					
Window 1	Dining	36.6%	36.6%	0.0%	1.00
Window 2	Dining	37.2%	35.7%	1.5%	0.96
Window 3	Kitchen	37.1%	35.5%	1.6%	0.96
Window 4	Hallway - n/a	37.2%	35.5%	1.7%	0.95
Window 5	Hallway - n/a	37.1%	35.5%	1.6%	0.96
Window 6	Living Room	36.9%	35.1%	1.8%	0.95
<u>First Floor</u>					
Window 7	Bedroom	35.3%	34.1%	1.2%	0.97
Window 8	Bedroom	35.3%	33.9%	1.4%	0.96
Window 9	Bedroom	35.9%	34.5%	1.4%	0.96
<u>4 Woodthorpe Grange</u>					
<u>Ground Floor</u>					
Window 10	Kitchen	36.7%	35.2%	1.5%	0.96
Window 11	Kitchen	36.0%	34.6%	1.4%	0.96
Window 12	Dining	34.0%	32.8%	1.2%	0.96
<u>First Floor</u>					
Window 13	Bedroom	34.9%	33.9%	1.0%	0.97
Window 14	Bedroom	34.4%	33.5%	0.9%	0.97
Window 15	Bedroom	33.2%	32.3%	0.9%	0.97

Appendix 2 - Daylight Distribution
52 Bury Old Road, Prestwich, Manchester, M25 0ER

Reference	Room Use	Daylight Distribution			
		Before	After	Loss	Ratio
<u>4 Woodthorpe Grange</u>					
<u>Ground Floor</u>					
Windows 10 & 11	Kitchen	99%	99%	0.0%	1.0
Window 12	Dining	99%	99%	0.0%	1.0
<u>First Floor</u>					
Window 13	Bedroom	98%	98%	0.0%	1.0
Window 14	Bedroom	97%	97%	0.0%	1.0
Window 15	Bedroom	95%	95%	0.0%	1.0

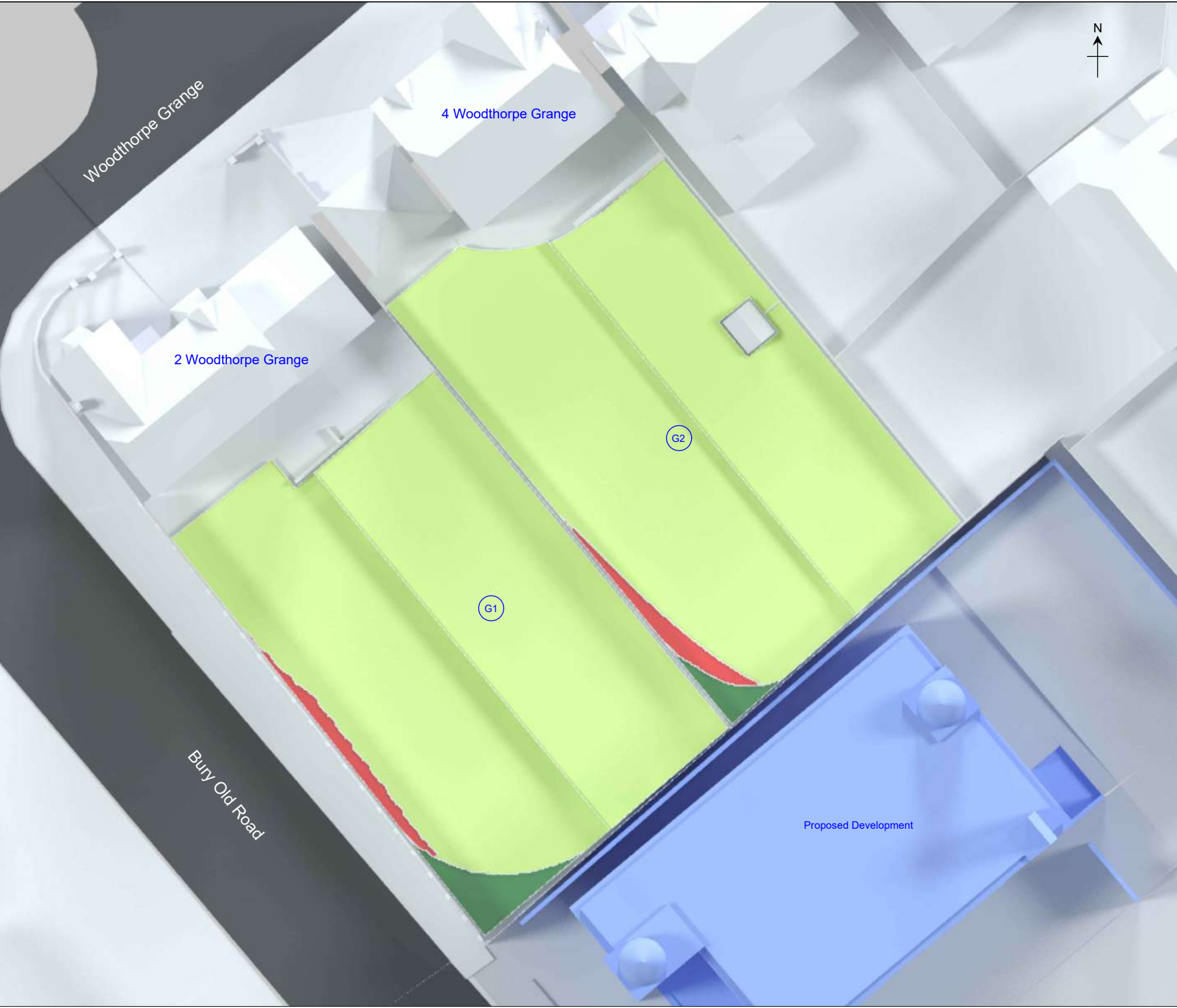
Appendix 2 - Sunlight to Windows
52 Bury Old Road, Prestwich, Manchester, M25 0ER

Reference	Room Use	Sunlight to Windows							
		Total Sunlight Hours				Winter Sunlight Hours			
		Before	After	Loss	Ratio	Before	After	Loss	Ratio
<u>2 Woodthorpe Grange</u>									
<u>Ground Floor</u>									
Window 1	Dining	71%	71%	0%	1.0	23%	23%	0%	1.0
Window 2	Dining	73%	71%	2%	0.97	25%	23%	2%	0.92
Window 3	Kitchen	73%	71%	2%	0.97	26%	24%	2%	0.92
Window 4	Hallway - n/a	74%	72%	2%	0.97	27%	25%	2%	0.93
Window 5	Hallway - n/a	74%	72%	2%	0.97	27%	25%	2%	0.93
Window 6	Living Room	74%	72%	2%	0.97	27%	25%	2%	0.93
<u>First Floor</u>									
Window 7	Bedroom	70%	68%	2%	0.97	27%	25%	2%	0.93
Window 8	Bedroom	69%	67%	2%	0.97	27%	25%	2%	0.93
Window 9	Bedroom	70%	68%	2%	0.97	27%	25%	2%	0.93
<u>4 Woodthorpe Grange</u>									
<u>Ground Floor</u>									
Window 10	Kitchen	72%	72%	0%	1.0	26%	26%	0%	1.0
Window 11	Kitchen	71%	71%	0%	1.0	26%	26%	0%	1.0
Window 12	Dining	67%	67%	0%	1.0	26%	26%	0%	1.0
<u>First Floor</u>									
Window 13	Bedroom	65%	65%	0%	1.0	25%	25%	0%	1.0
Window 14	Bedroom	65%	65%	0%	1.0	25%	25%	0%	1.0
Window 15	Bedroom	62%	62%	0%	1.0	25%	25%	0%	1.0

Appendix 2 - Overshadowing to Gardens and Open Spaces
52 Bury Old Road, Prestwich, Manchester, M25 0ER

Reference	Total Area		Area receiving at least two hours of sunlight on 21st March									
			Before		After		Loss		Ratio			
<u>2 Woodthorpe Grange</u>												
Garden 1	606.82	m2	588.36	m2	97%	576.19	m2	95%	12.17	m2	2%	0.98
<u>4 Woodthorpe Grange</u>												
Garden 2	609.78	m2	601.75	m2	99%	588.69	m2	97%	13.06	m2	2%	0.98

APPENDIX 3
OUTDOOR SPACES PLAN



Key

-  Proposed Development
-  Neighbouring Properties
-  Receives under two hours sunlight on 21st March before and after the development.
-  Receives under two hours sunlight on 21st March before the development; but will receive at least two hours sunlight on 21st March after the development (light improved).
-  Receives at least two hours sunlight on 21st March before the development; but will receive under two hours sunlight after the development (light loss).
-  Receives at least two hours sunlight on 21st March before and after the development.
-  Neighbouring Gardens and Amenity Areas

Notes:

1. Contours derived in accordance with BRE Guide : Site Layout Planning for Daylight and Sunlight

Rev	Date	Description



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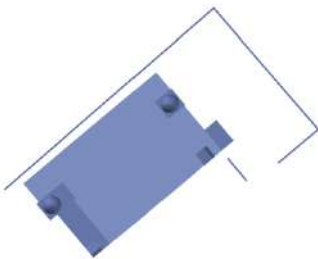
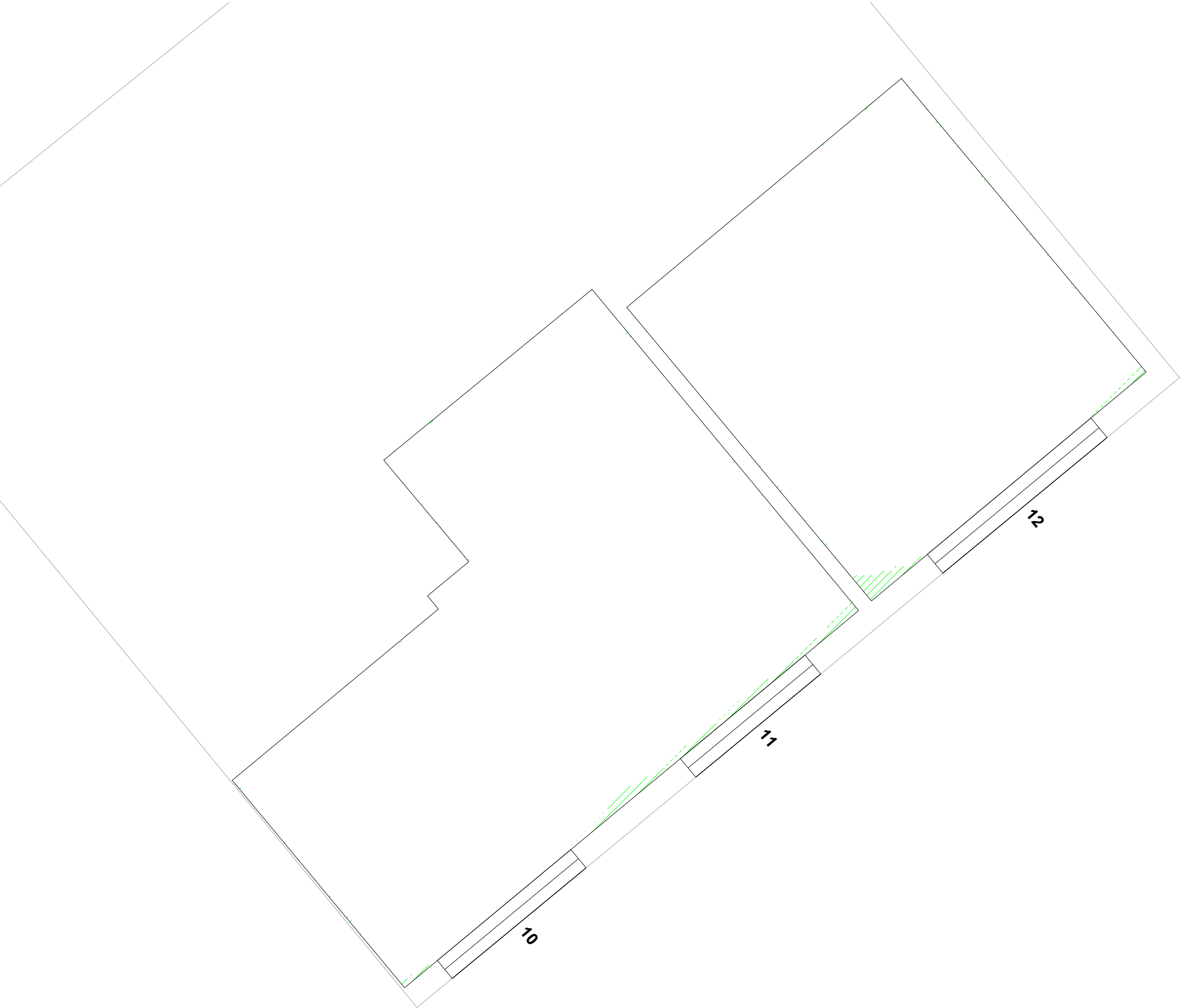


Drawing Title: Overshadowing to Gardens and Open Spaces

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APPENDIX 4
NO SKY LINE CONTOURS

4 Woodthorpe Grange (Ground Floor)



Area that does not receive visible sky both before and after the development.



Area that can receive visible sky as a result of the development.



Area that cannot receive visible sky as a result of the development.



Area that can receive visible sky both before and after the development.

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Rev	Date	Description
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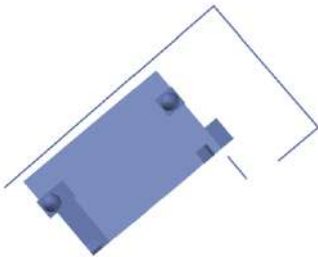
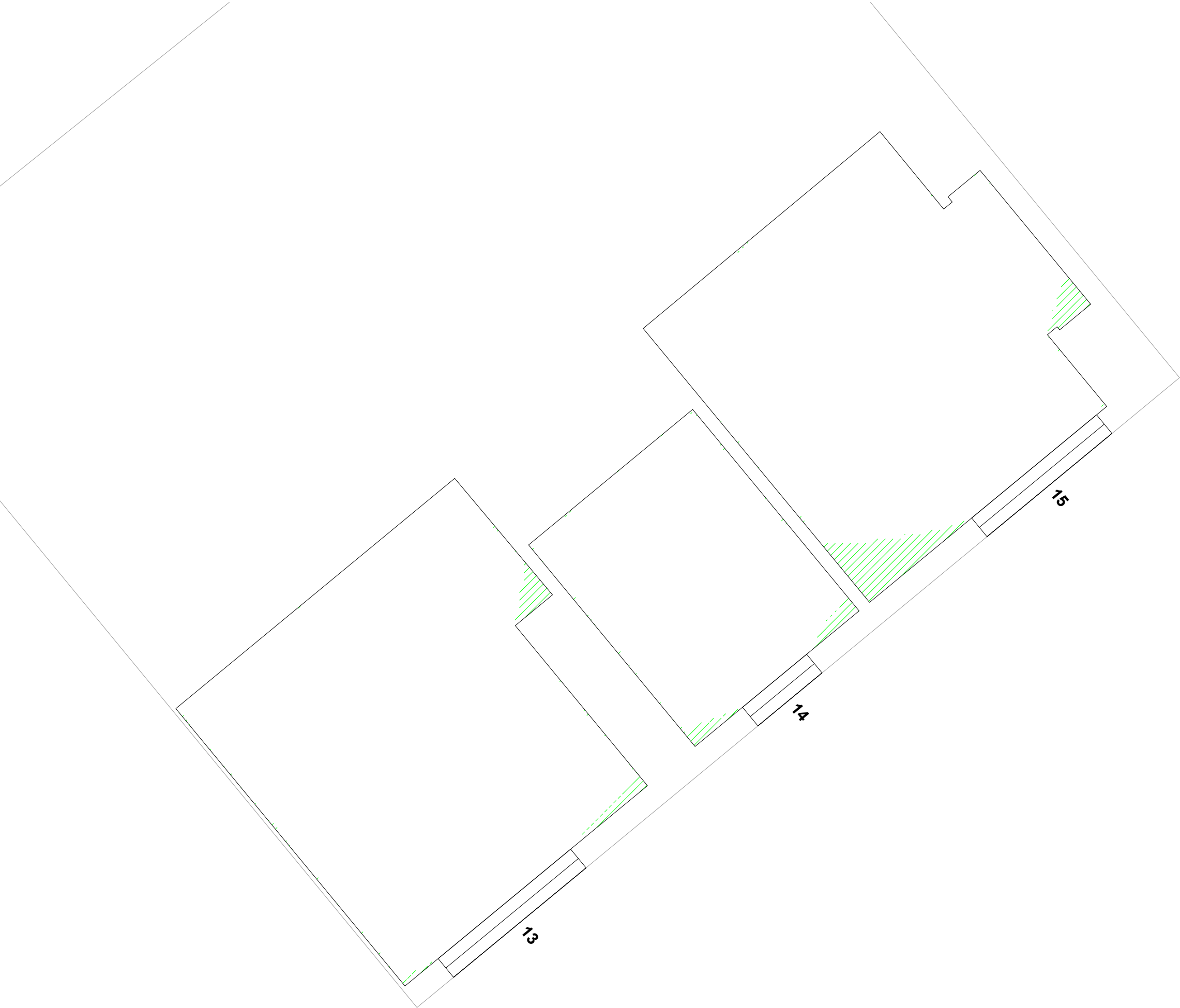
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Drawing Title: No Sky Line Contours

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4 Woodthorpe Grange (First Floor)



Area that does not receive visible sky both before and after the development.



Area that can receive visible sky as a result of the development.



Area that cannot receive visible sky as a result of the development.



Area that can receive visible sky both before and after the development.

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Rev	Date	Description
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