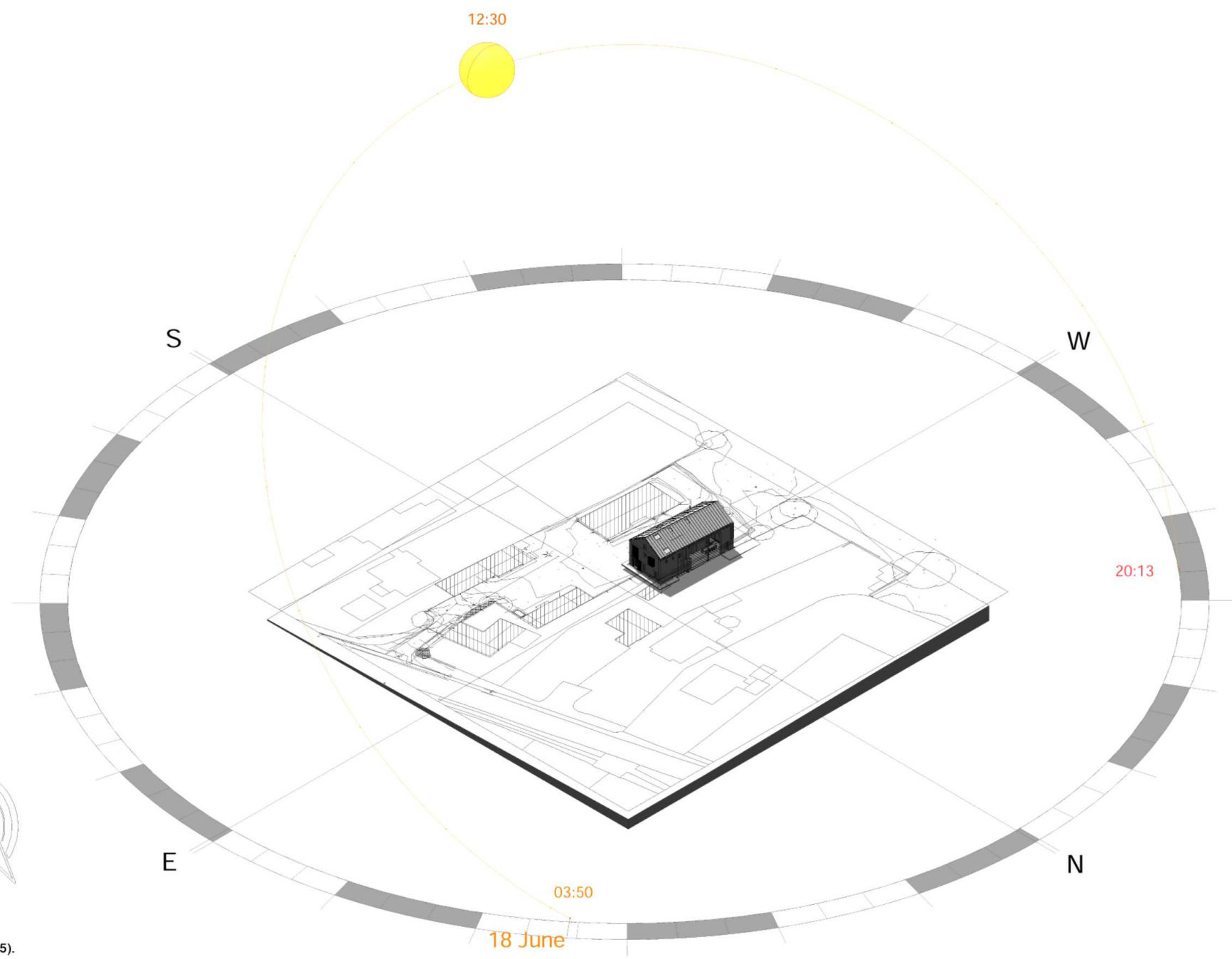
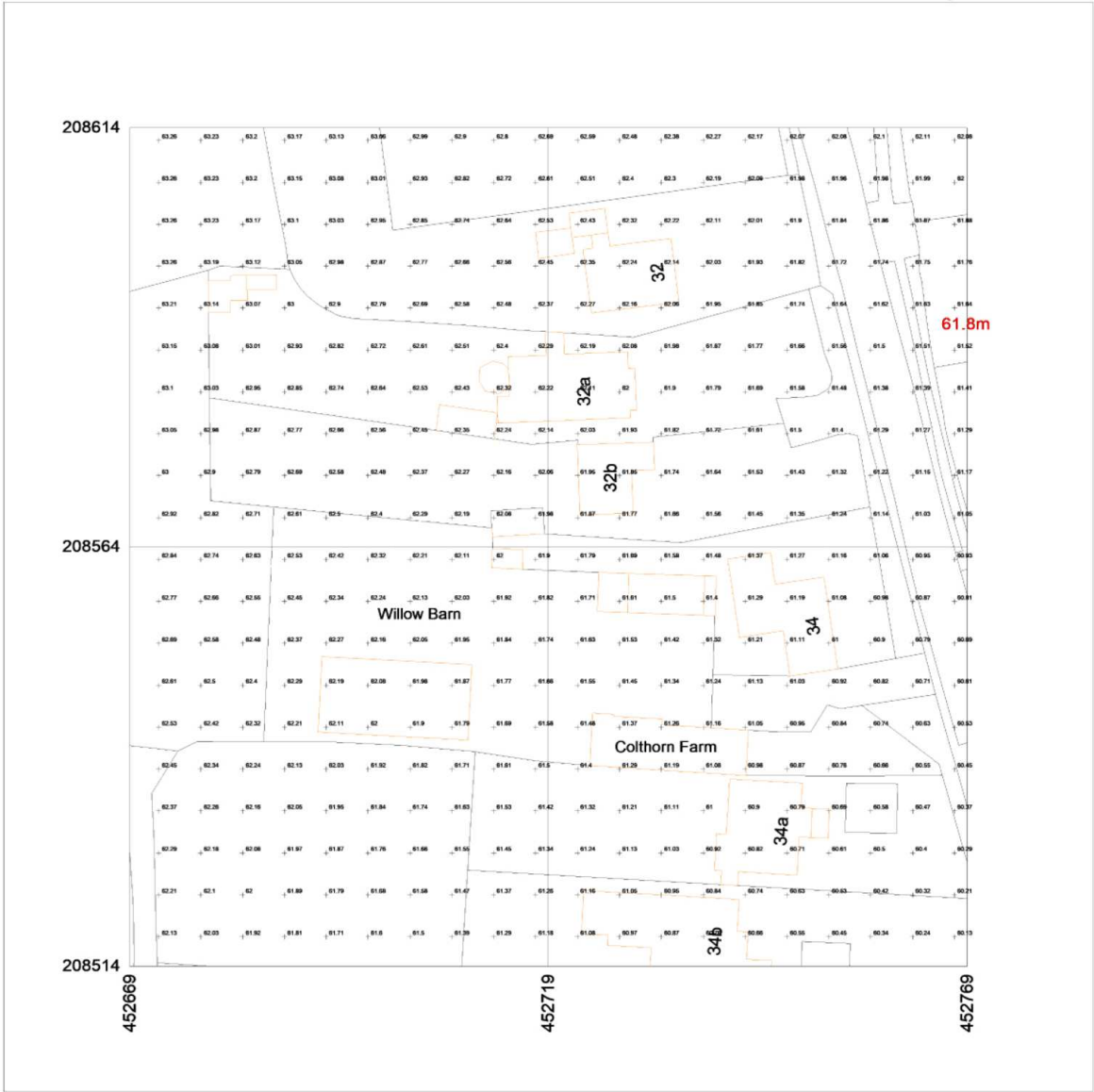
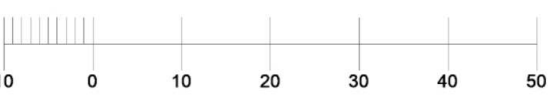


# **Shadow Sunlight Assessment**

This study is based on the os map and it's DTM data for the site model. Using a building information model in auto desk Revit 2024. The parameters set for this Sun path to plot the Shadows have determined at various times of the day (tracking the sun moving from morning to evening) through a year at 9am ,12pm and 3pm and 5pm depending on sunset. See Appendix h for planning massing Appendix I for planning massing with addition technical 3D model setup.



Produced on 15 February 2024 from the Ordnance Survey National Geographic Database and incorporating surveyed revision available at this date.  
 This map shows the area bounded by 452669 208514, 452769 208514, 452769 208614, 452669 208614, 452669 208514  
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1 Point data developed into surface

Based on Ordnance Survey 1:2500 mapping with permission of the controller Crown copyright 2024. The area bounded by 452669 208514, 452769 208514, 452769 208614, 452669 208614, 452669 208514.

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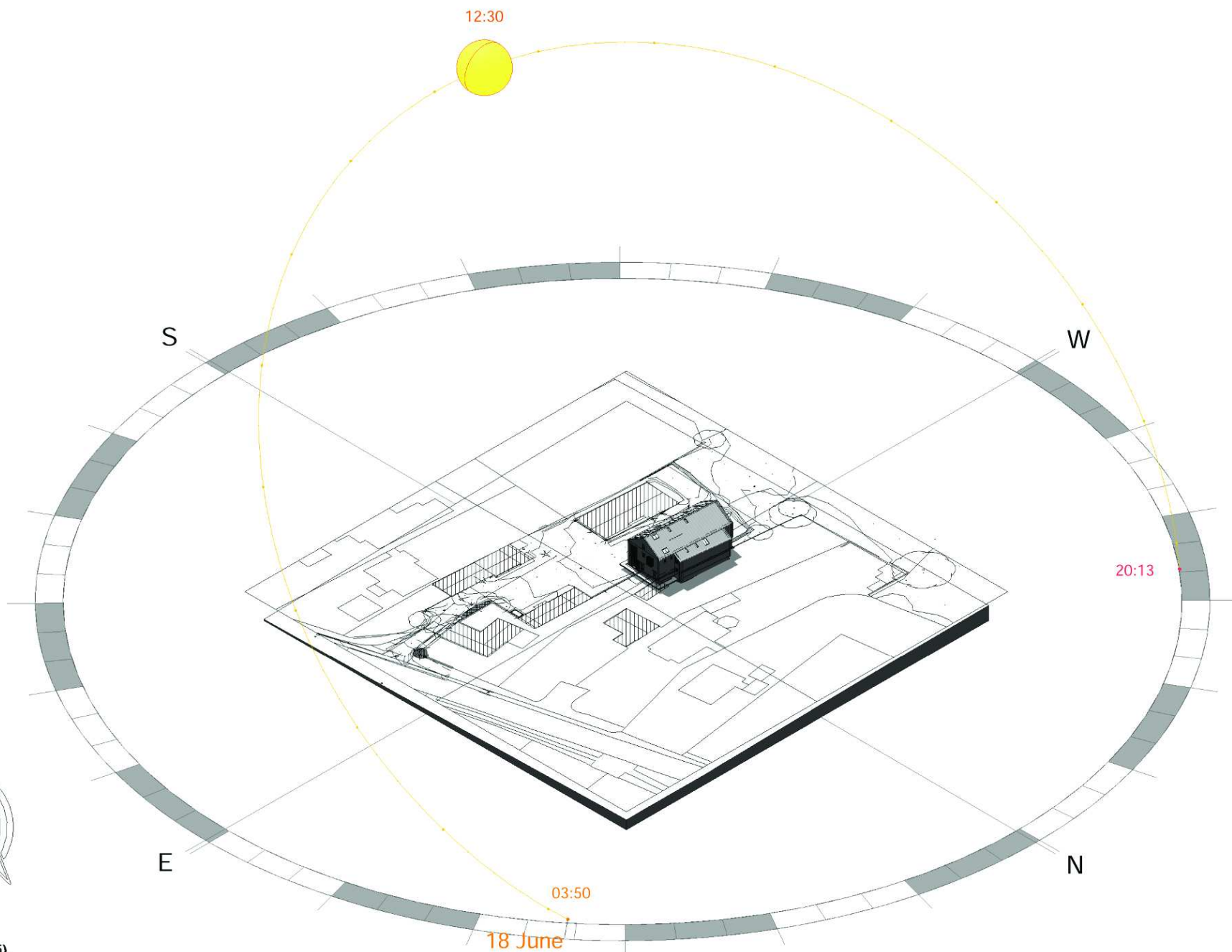
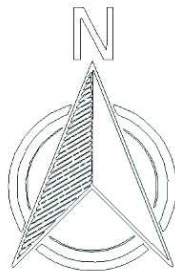
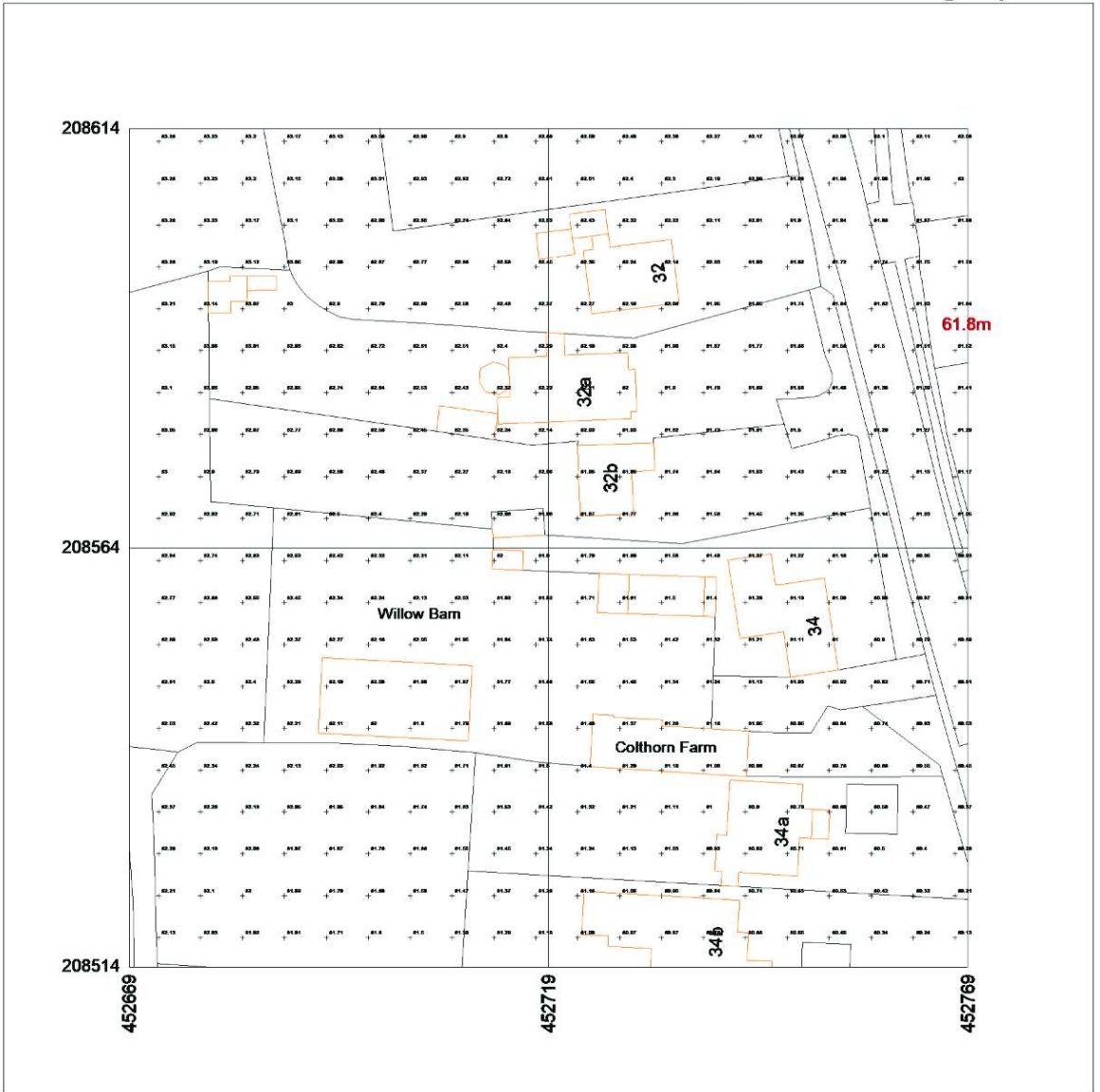
Rev No	Revision Description	Date



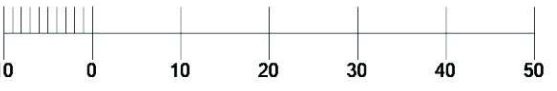
Control Environment data setup for daylight assessment

Date : 02/18/24  
 Scale @ A1: 1:750 @ A3: 1:1500  
 Drawing No: 000a

If any discrepancies are found in the drawing these are to be brought to the attention of the Architect. Please check all dimensions on site before commencement. All dimensions are approximate. All areas and quantities to be checked by a Quantity Surveyor. Indicative structural support to be determined by structural engineer.



Produced on 15 February 2024 from the Ordnance Survey National Geographic Database and incorporating surveyed revision available at this date.  
 This map shows the area bounded by 452669 208514,452769 208514,452769 208614,452669 208614,452669 208514  
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1 Point data developed into surface



Drawing Title: **Control Enviroment data setup for daylight assessment**

Date : 02/18/24  
 Scale @ A1: 1:750 @ A3: 1:1500  
 Drawing No: 000a

If any discrepancies are found in the drawing these are to be brought to the attention of the Architect. Please check all dimensions on site before commencement. All dimensions are approximate. All areas and quantities to be checked by a Quantity Surveyor. Indicative structural support to be determined by structural engineer.

Based on Ordnance Survey 1:1250 mapping with permission of the controller Crown copyright 2024. The area bounded by 452669 208514,452769 208514,452769 208614,452669 208614,452669 208514.

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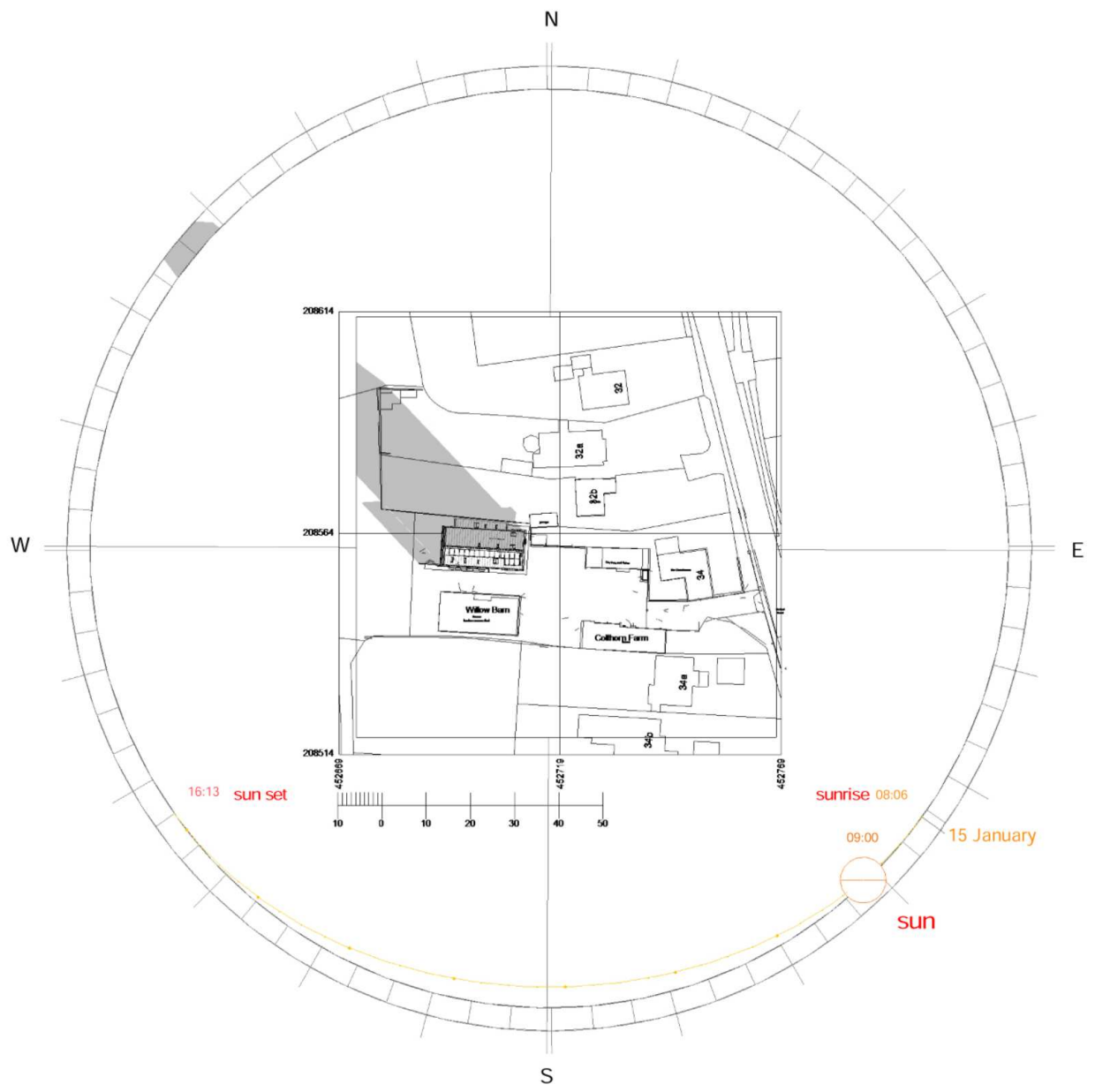
Rev No	Revision Description	Date

**The following appendices form this document :**

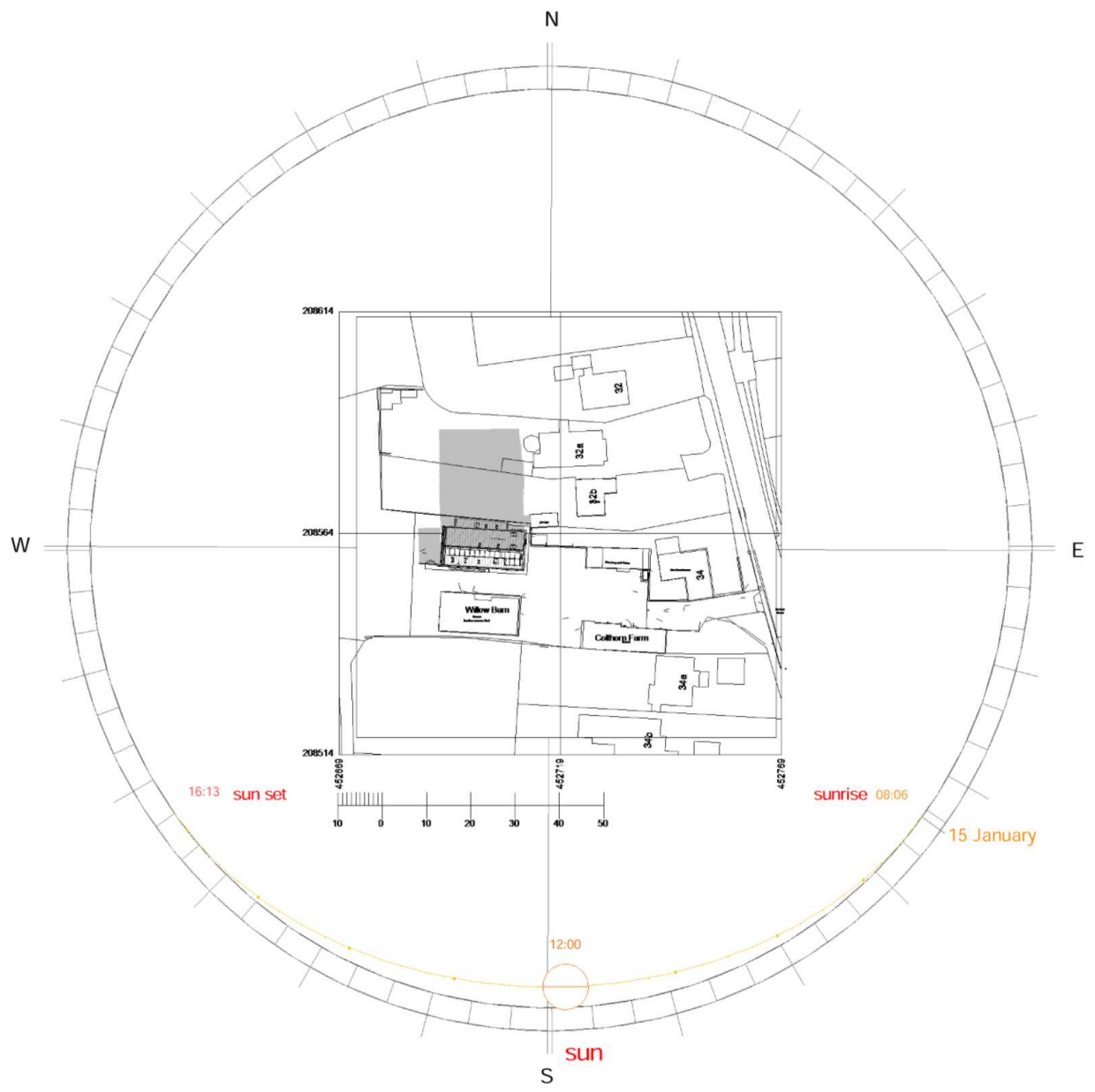
1. Appendix a shows existing planning massing 18/00631/FUL shadow casts
2. Appendix b shows existing planning massing with addition shadow casts
3. Appendix c overlay of all years shadow plots for existing planning 18/00631/FUL
4. Appendix d overlay of all years shadow plots for existing with addition
5. Appendix e Colour coded shadow mapping for existing planning massing
6. Appendix f Colour coded shadow mapping for existing planning massing with addition
7. Appendix g overlay of both plots of Shadow comparison

**The diagrams below are formed from data from the following appendices**

1. See D1 Appendix a shows existing planning 18/00631/FUL massing shadow cast
2. See D2 Appendix b shows existing planning 18/00631/FUL massing with addition



1 January 15th 9am  
1 : 750



2 January 15th 12pm  
1 : 750



North

Drawing Title: **January**  
Date : 01/23/07  
Scale @ A1: 1:750 @ A3: 1:1500  
Drawing No: 001

If any discrepancies are found in the drawing these are to be brought to the attention of the Architect. Please check all dimensions on site before commencement. All dimensions are approximate. All areas and quantities to be checked by a Quantity Surveyor. Indicative structural support to be determined by structural engineer.

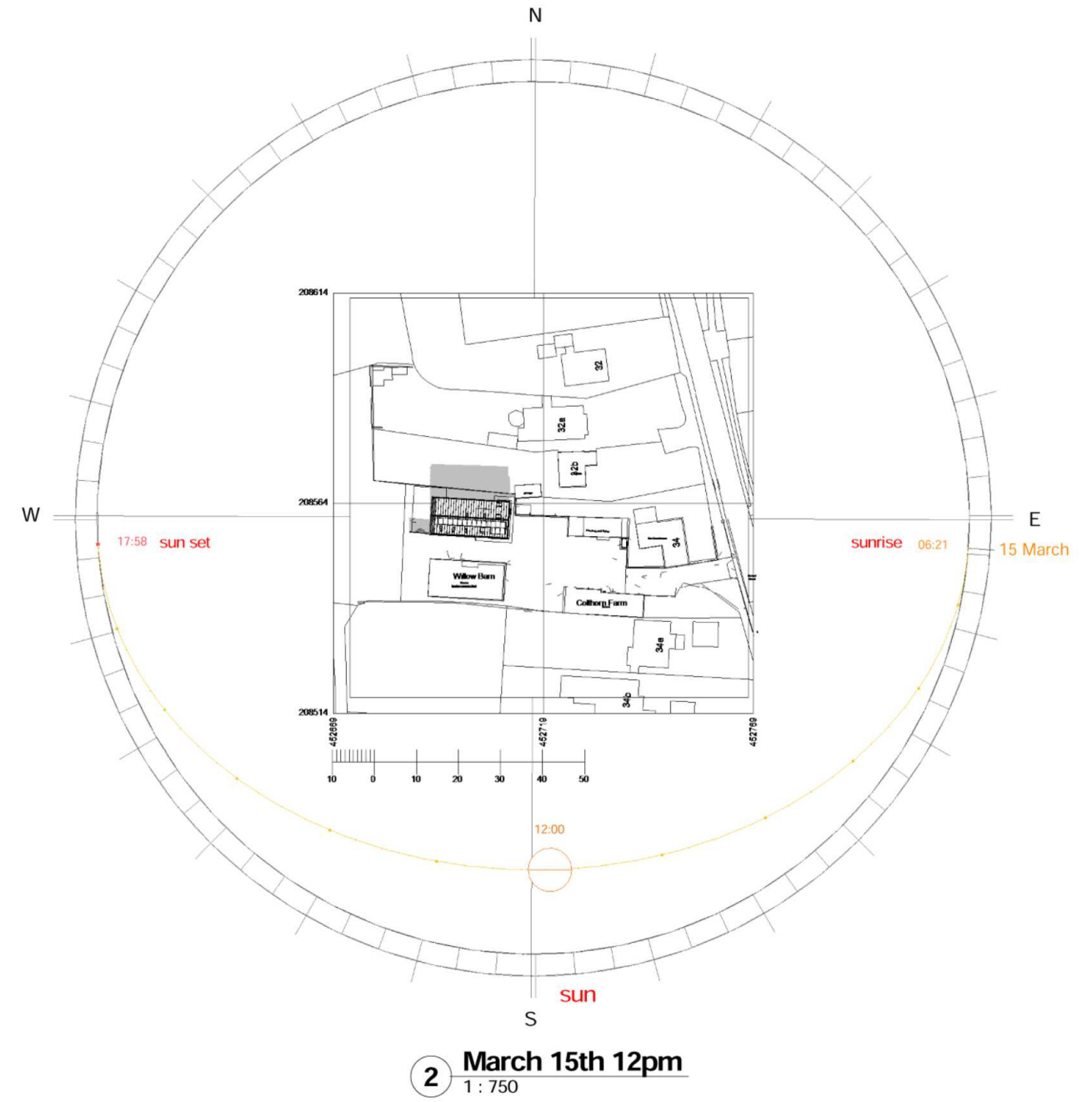
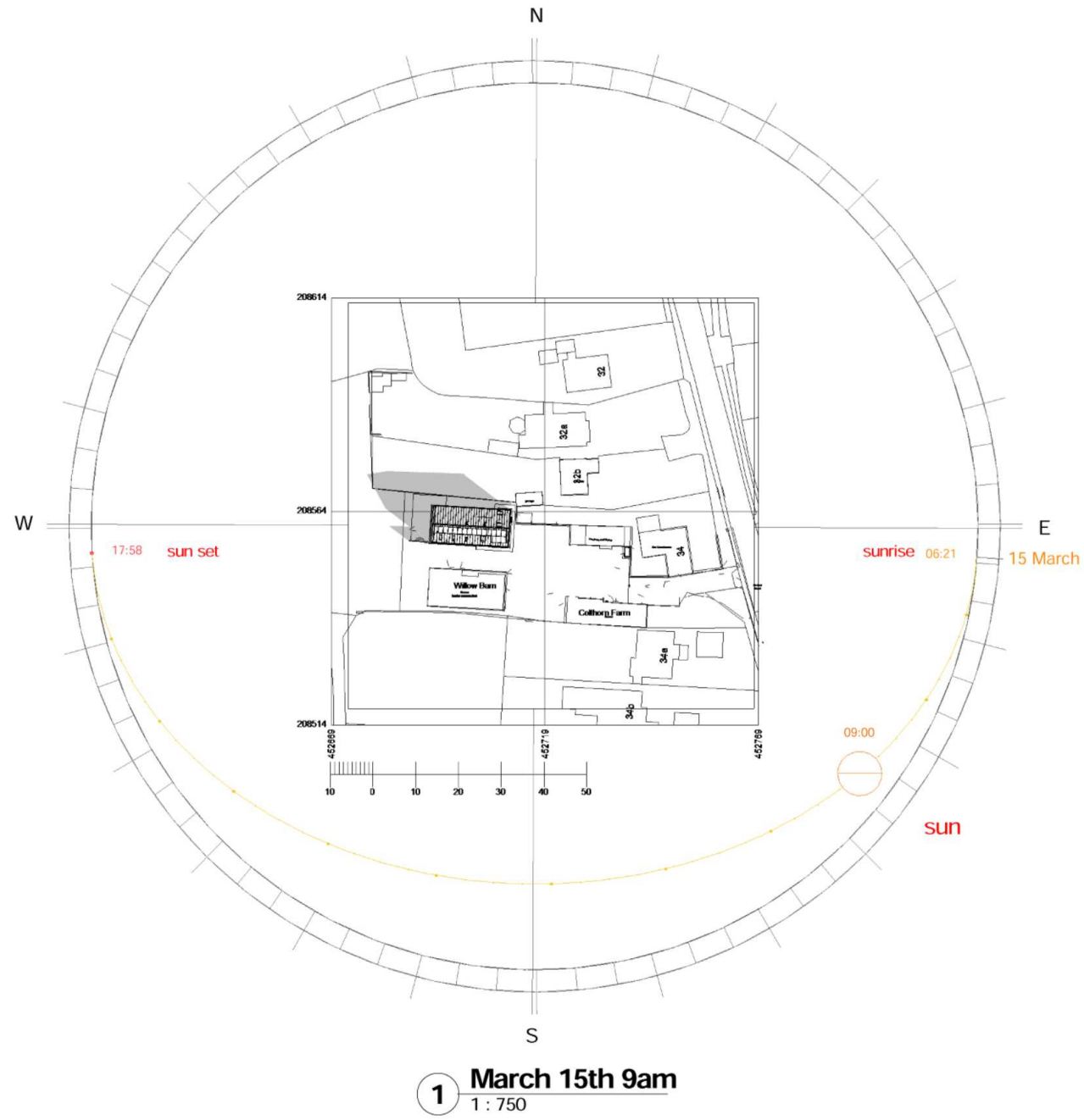
Colthorn Farm Stone Barn  
idrawdesign.art  
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**PLANNING Solor Study**

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Rev No	Revision Description	Date



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Rev No	Revision Description	Date



North

Drawing Title: **March**  
 Date : 02/17/24  
 Scale @ A1: 1:750 @ A3: 1:1500  
 Drawing No: 005

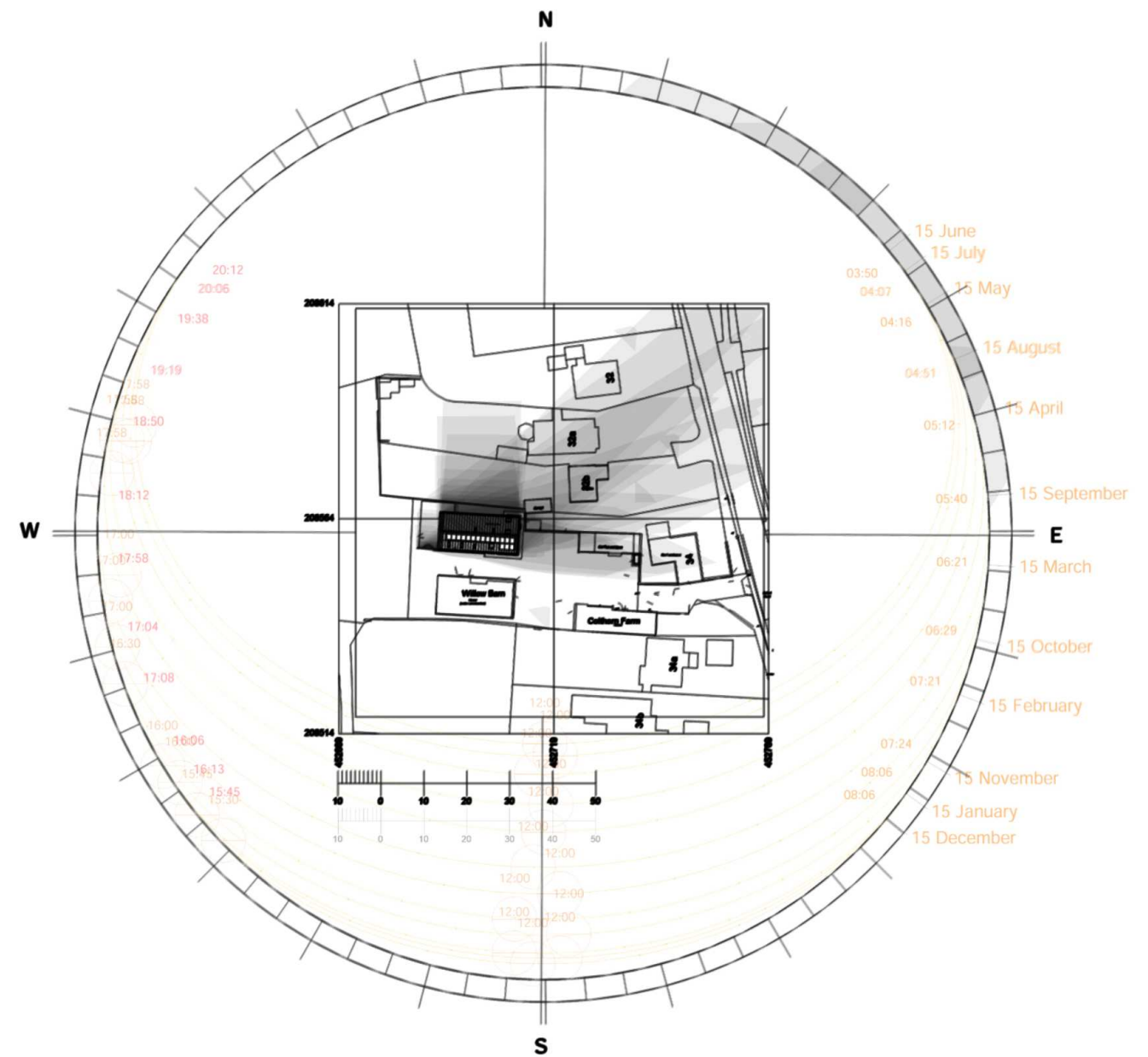
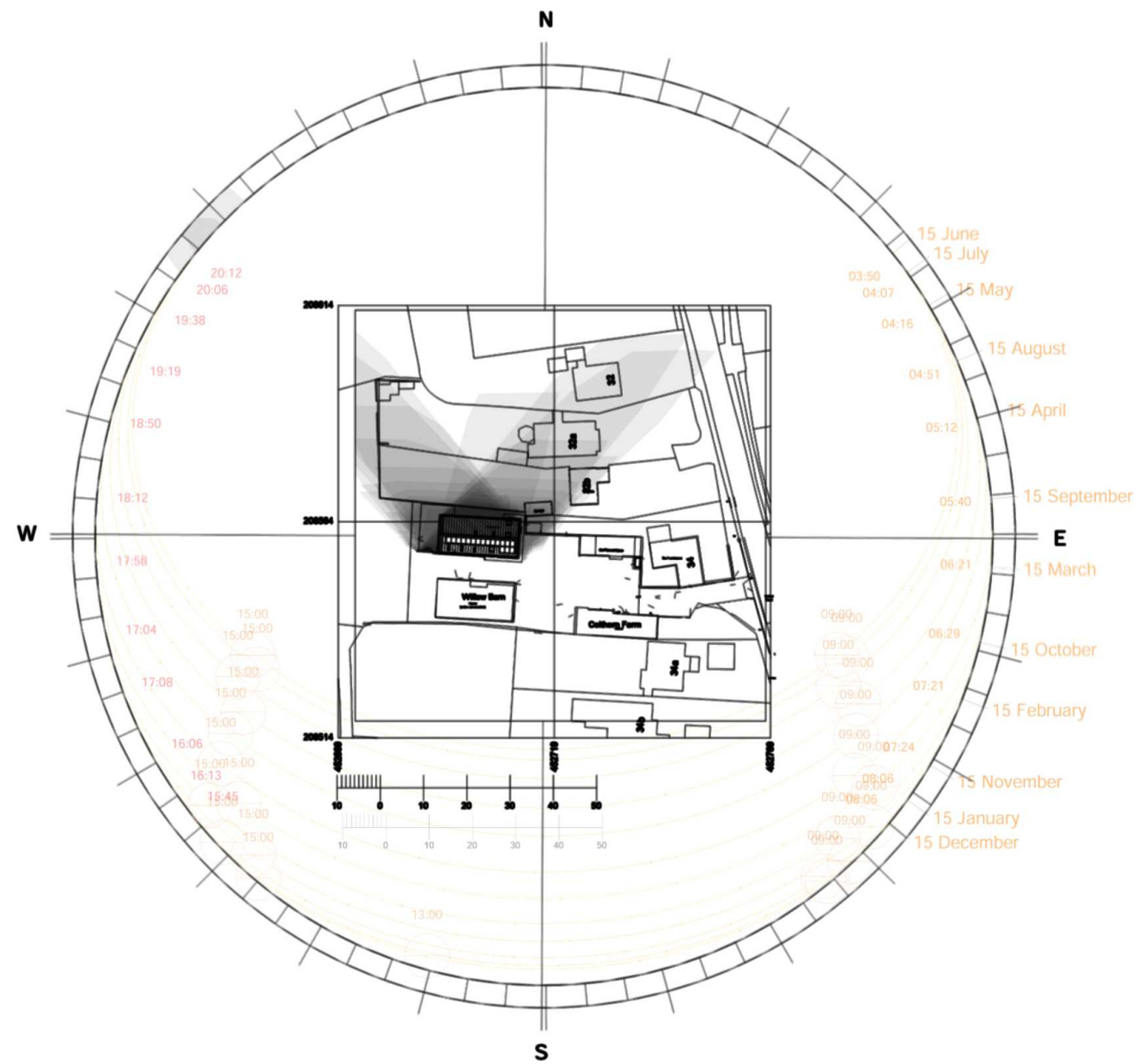
If any discrepancies are found in the drawing these are to be brought to the attention of the Architect. Please check all dimensions on site before commencement. All dimensions are approximate. All areas and quantities to be checked by a Quantity Surveyor. Indicative structural support to be determined by structural engineer.

These have then been combined into full year shadows for the times on those days per month for both original massing and the original with the side addition plotted over each other to form the diagrams as follows:

1. Appendix c overlay of all years shadow plots for existing planning 18/00631/FUL
2. Appendix d overlay of all years shadow plots of existing planning 18/00631/FUL with addition



EXISTING PLANNING APPLICATION



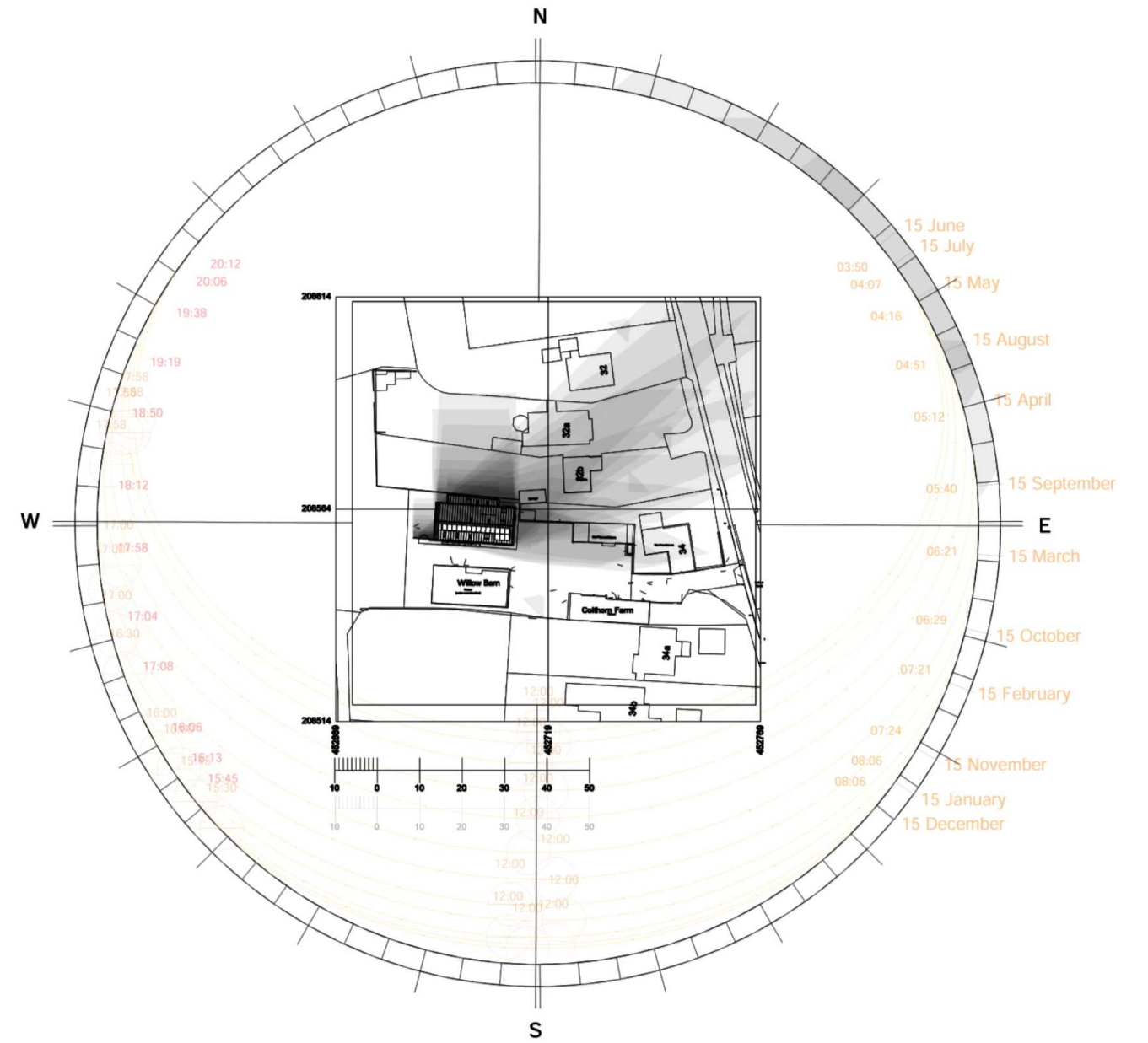
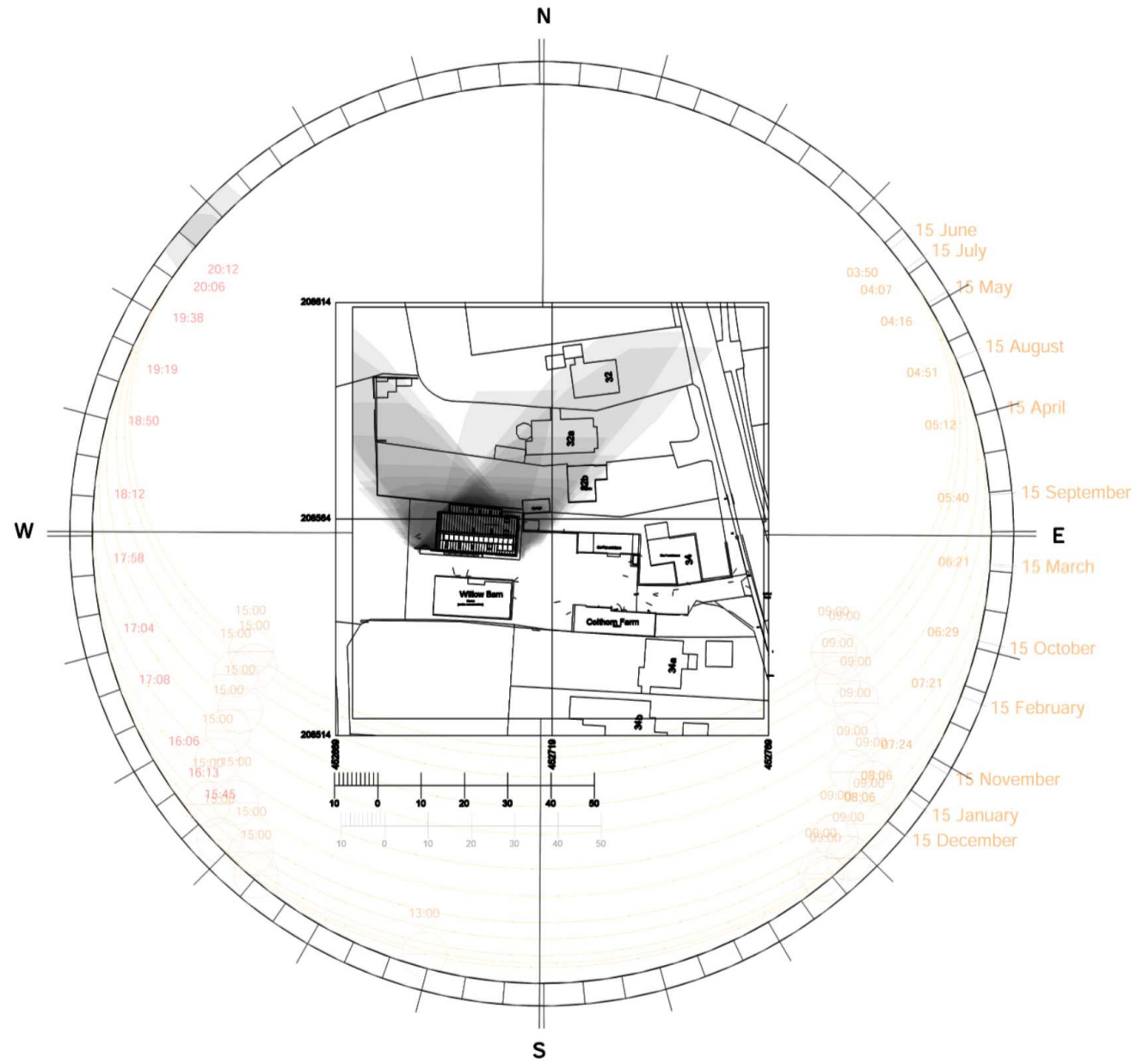
DAYLIGHT STUDY FOR EXISTING PLANNING APPLICATION MASSING 15TH OF EACH MONTH FOR A YEAR CYCLE (SEE APPENDIX a)

Based on Ordnance Survey 1:1250 mapping with permission of the controller Crown copyright 2024. The area bounded by 452669 208514, 452769 208514, 452769 208614, 452669 208614, 452669 208514.

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EXISTING PLANNING APPLICATION MASSING WITH SIDE ADDITION



DAYLIGHT STUDY FOR EXISTING PLANNING APPLICATION MASSING WITH SIDE ADDITION 15TH OF EACH MONTH FOR A YEAR CYCLE (SEE APPENDIX b)

Based on Ordnance Survey 1:1250 mapping with permission of the controller Crown copyright 2024. The area bounded by 452669 208514, 452769 208514, 452769 208614, 452669 208614, 452669 208514.

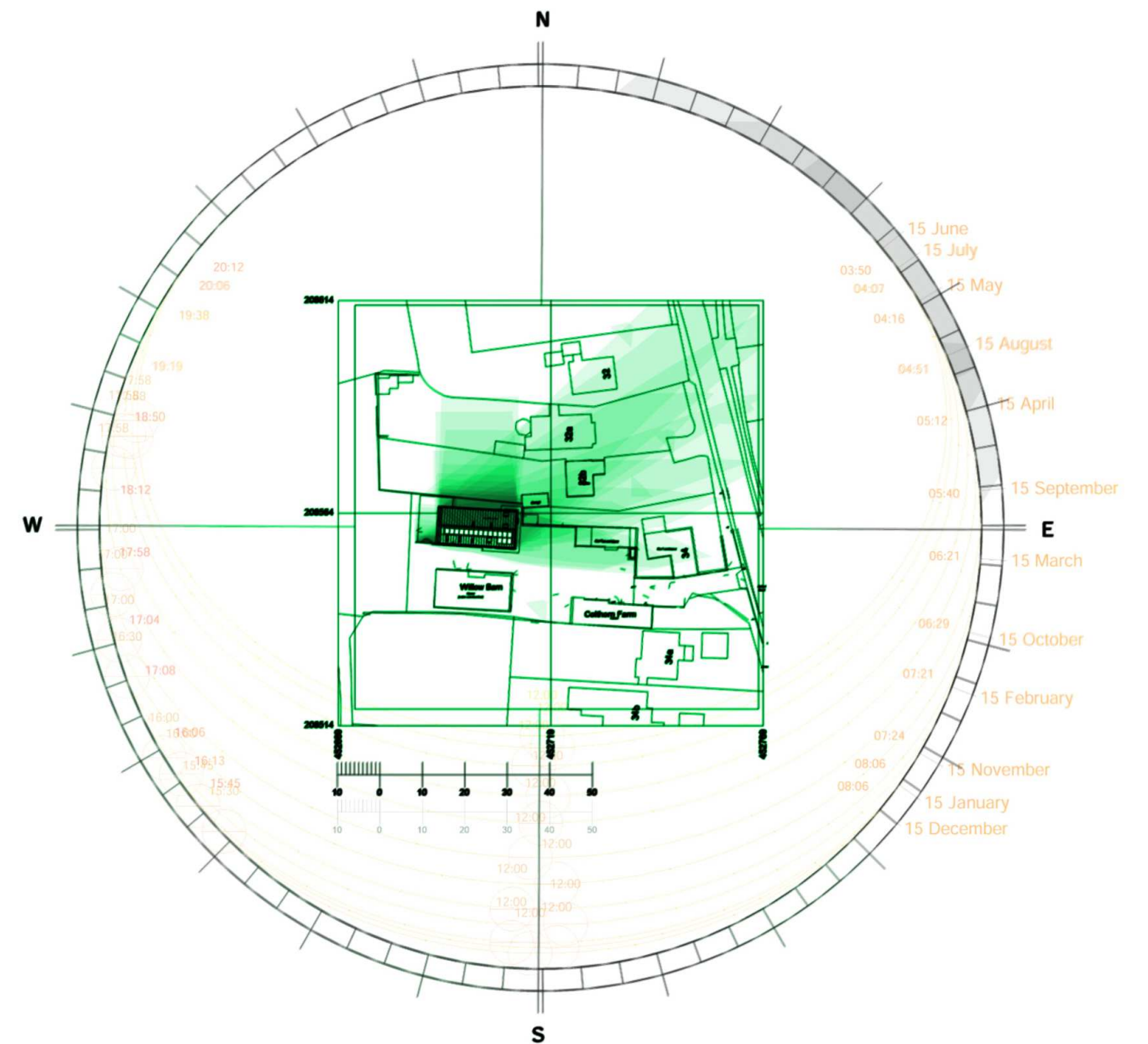
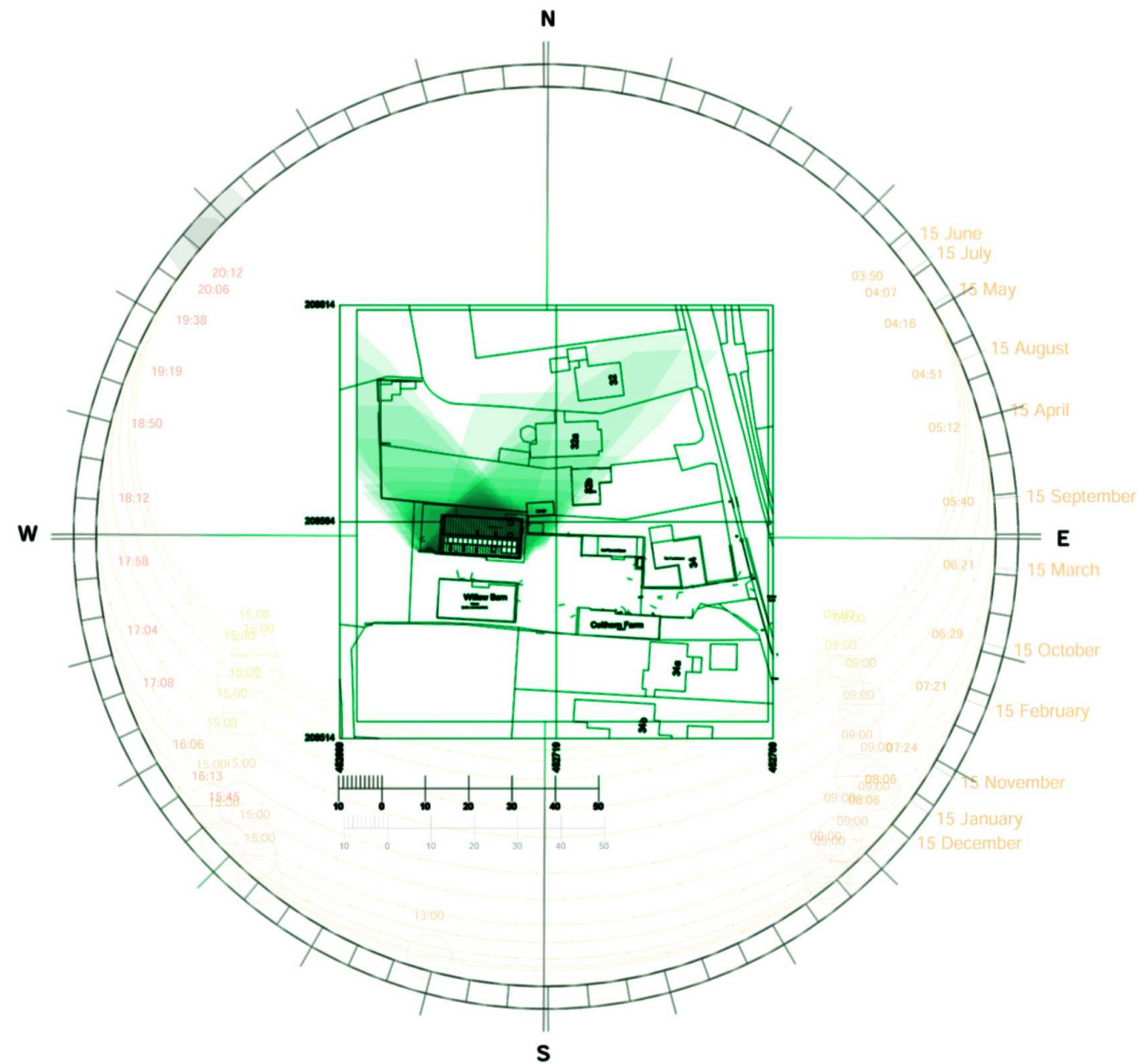
Crown copyright and database rights 2024 OS 100054135. Supplied by copla ltd trading as UKPlanningMaps.com a licensed Ordnance Survey partner (OS 100054135).

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**These then have been Colour coded to in the following diagrams:**

1. Appendix e existing planning massing
2. Appendix f existing planning massing with addition

EXISTING PLANNING APPLICATION IN GREEN



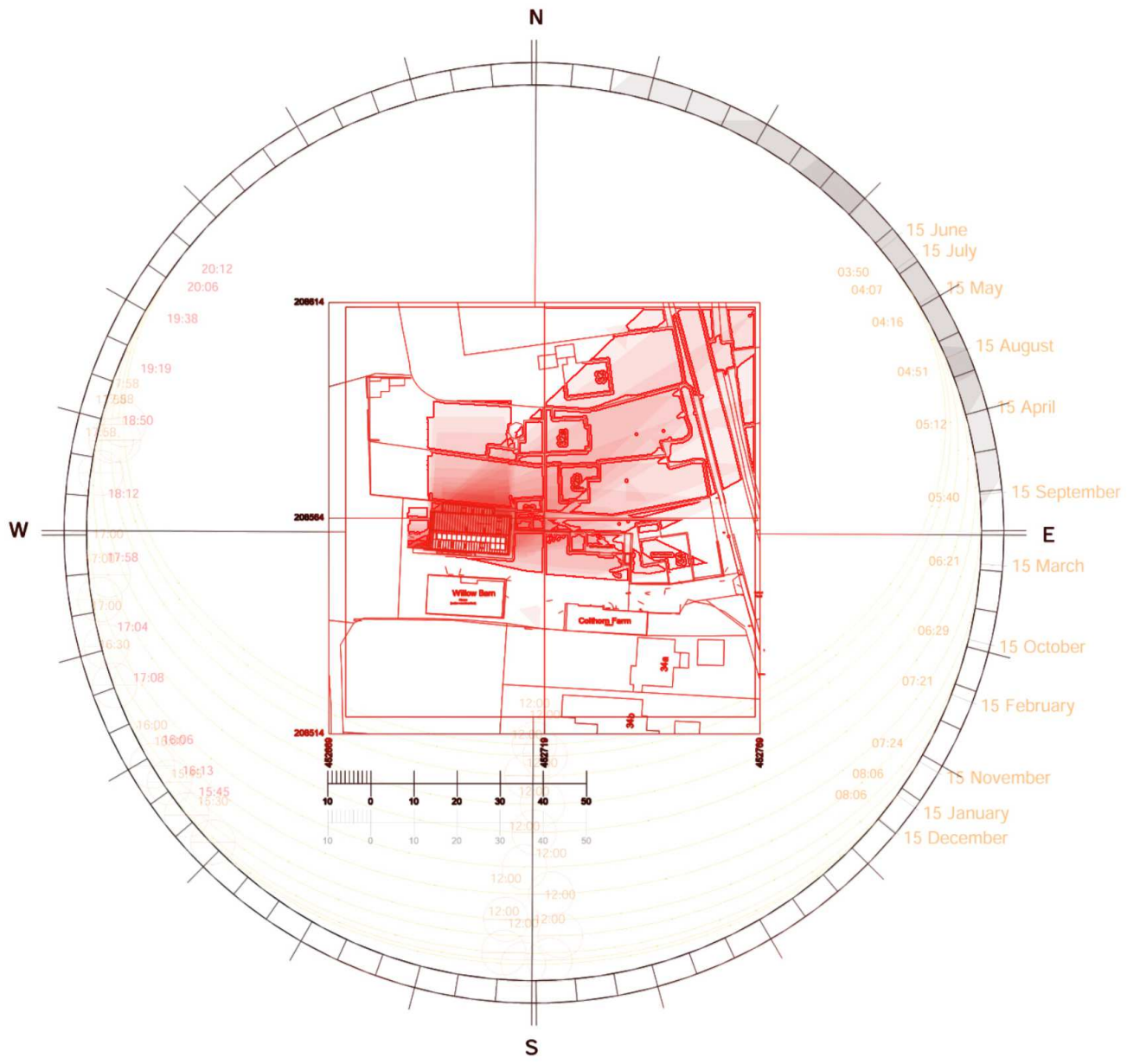
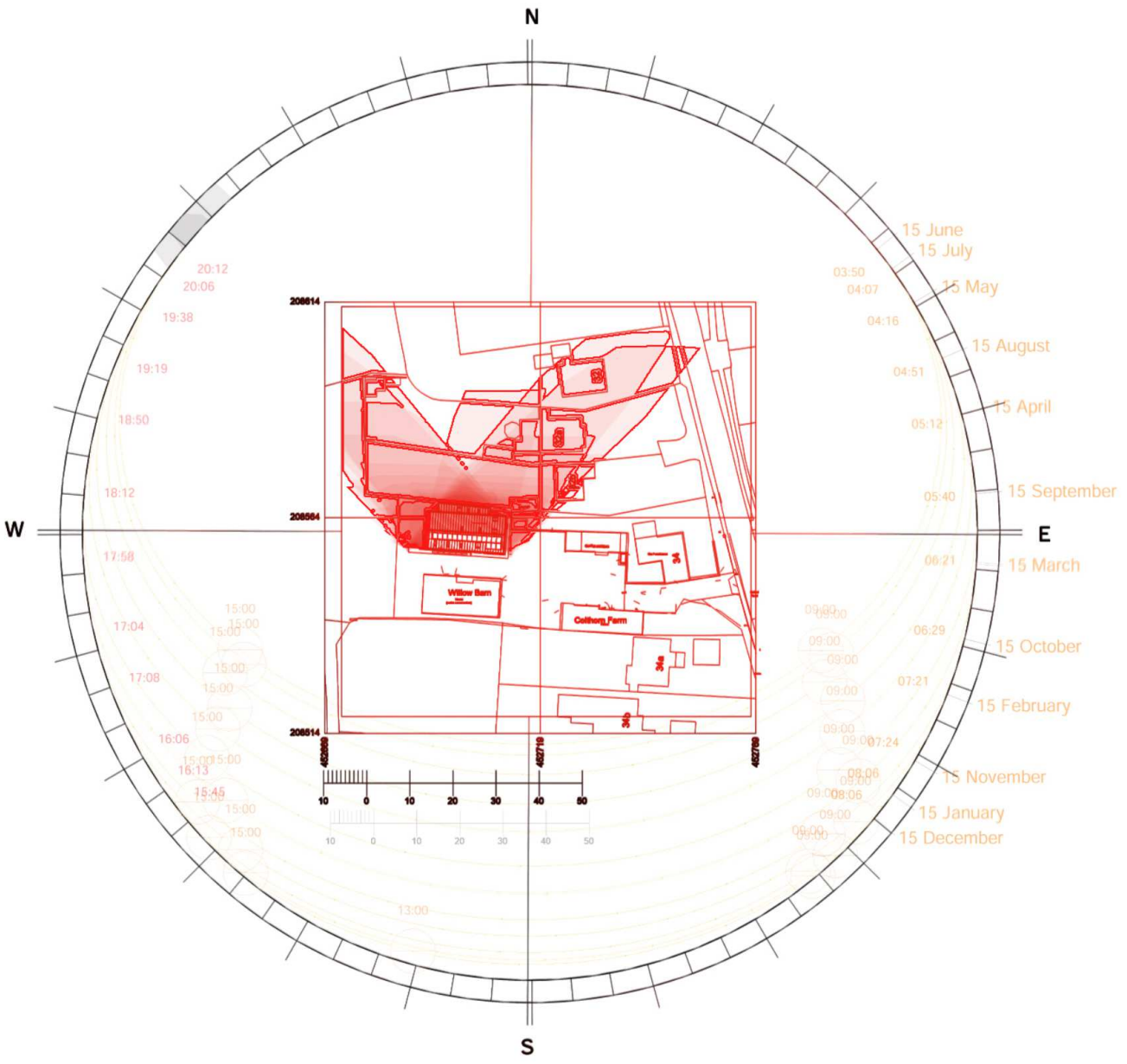
DAYLIGHT STUDY FOR EXISTING PLANNING APPLICATION MASSING 15TH OF EACH MONTH FOR A YEAR CYCLE (SEE APPENDIX a)

Based on Ordnance Survey 1:1250 mapping with permission of the controller Crown copyright 2024. The area bounded by 452669 208514, 452769 208514, 452769 208614, 452669 208614, 452669 208514.

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Data licence expires 14 February 2025. Unique plan reference: v1e//1059510/1428027

EXISTING PLANNING APPLICATION WITH WITH ADDITION SHADOW IN RED



DAYLIGHT STUDY FOR EXISTING PLANNING APPLICATION MASSING 15TH OF EACH MONTH FOR A YEAR CYCLE (SEE APPENDIX b)

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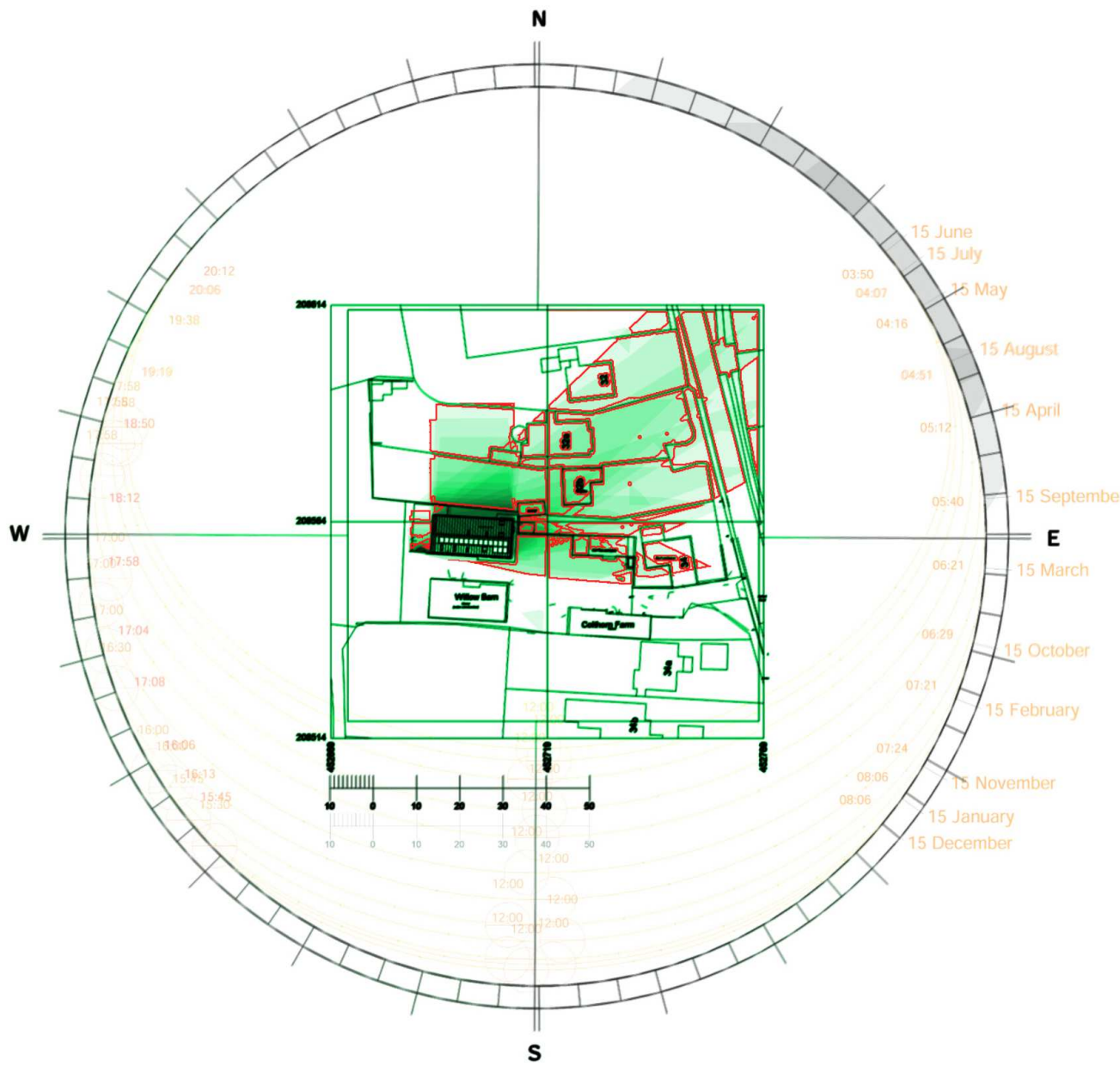
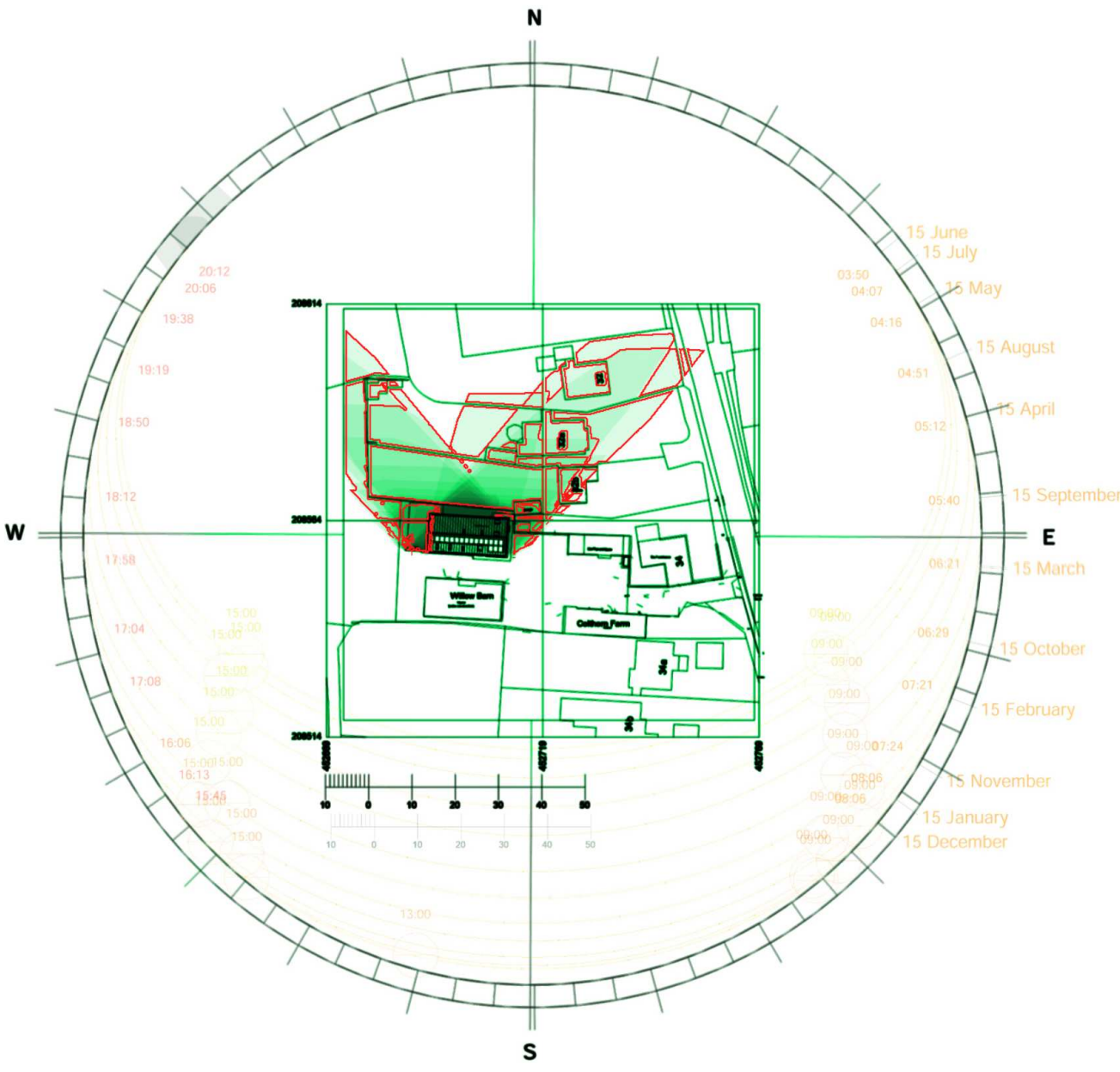
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Finally The shadows cast by original mass of the planning 18/00631/FUL have been compared with the overlay shadows cast the addition to form the red lines overlay

1. Appendix g overly of both plots of Shadow to compared

EXISTING PLANNING APPLICATION IN GREEN WITH OVERLAY IN RED OF SHADOWS FROM EXISTING WITH ADDITION COMPARISON



DAYLIGHT STUDY FOR EXISTING PLANNING APPLICATION MASSING 15TH OF EACH MONTH FOR A YEAR CYCLE (SEE APPENDIX a / b)

Based on Ordnance Survey 1:1250 mapping with permission of the controller Crown copyright 2024. The area bounded by 452669 208514, 452769 208514, 452769 208614, 452669 208614, 452669 208514.

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## **Conclusion**

In considering the extent of any possible overshadowing caused by the addition on the side of the north elevation the design has been done to minimise this for any excessive or additional overshadowing of neighbouring properties. It will be expected that the greater part of any overshadowing caused by a new extension should be confined within the original planning massing shadow cast.

From this study it is fair to assume the additional side extension would not impact greatly, if at all, on the shadow cast from the original planning mass, as its massing is set down from the main roof and back from the east and west elevations minimises its shadow impact.