DELVA PATMAN REDLER
Chartered Surveyors

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020 7936 3668
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17-19 CHALTON STREET

LONDON NW1

DAYLIGHT AND SUNLIGHT STUDY

Ref: LT/lt/13222
Date: January 2014

INTRODUCTION

Delva Patman Redler LLP have been instructed to prepare a daylight and sunlight study to assess the likely impact of the proposed redevelopment of 17-19 Chalton Street by David Gallagher Associates on the neighbouring residential amenity adjacent to the site.

This study has been carried out in accordance with the recommendations of the Building Research Establishment Report "Site Layout Planning for Daylight & Sunlight 2011" (BRE209).

The template drawings, which are attached, illustrate the results for the daylight and sunlight assessments and identify the drawings used in these studies.

THE PROPOSAL

The development proposal is to add an additional storey set back to the rear of the property with minor amendments to the existing main roof.

POLICY / GUIDELINES

This study has been carried out in accordance with the recommendations of the Building Research Establishment report "Site Layout Planning for Daylight & Sunlight 2011". This is the standard specifically identified in the London Borough of Camden Planning Policy by which daylight and sunlight should be assessed.

The BRE guide is intended for building designers and their clients, consultants and planning officials. The advice given is not mandatory and the report should not be seen as a part of planning policy. Its aim is to help rather than constrain the designer. Although it gives numerical guidelines, these should be interpreted flexibly because natural lighting is only one of the many factors in site layout design. In certain circumstances the developer or planning authority may wish to use alternative target values.

Whilst technical analysis can be carried out in accordance with numerical guidelines and reported factually by comparison with those guidelines, the final assessment as to whether affected dwellings are left with acceptable amounts of daylight and sunlight in an inner city context where the findings are to be interpreted in a flexible manner is a matter of subjective opinion.

METHODOLOGY

The Daylight and Sunlight assessments have been undertaken in accordance with the Building Research Establishment (BRE) guidelines.

The BRE Report advises that daylight levels should be assessed for the main habitable rooms of neighbouring residential properties. Habitable rooms in residential properties are defined as kitchens, living rooms and dining rooms. Bedrooms are less important as they are mainly occupied at night time.

Daylight

The BRE Guide states that:

> *"If, for any part of the new development, the angle from the centre of the lowest affected window to the head of the new development is more than 25^{o}, then a more detailed check is needed to find the loss of skylight to the existing buildings."*

The BRE guidelines propose several methods for calculating daylight.

The two main methods predominantly used are those involving the measurement of the total amount of skylight available (the vertical sky component (VSC)) and its distribution within the building (the No-Sky line or daylight distribution).

The VSC calculation is a general test of potential for daylight to a building, measuring the light available on the outside plane of windows.

The "No-Sky" Line divides those areas of the working plane which can receive direct skylight, from those which cannot. It provides an indication of how good the daylight distribution is within a room.

The third recognised method of assessment for daylight is the Average Daylight Factor (ADF) calculation which assesses the quality and distribution of light within a room served by a window and takes into account the VSC value, the size and number of the windows and room and the use to which the room is put. ADF assesses actual light distribution within a defined room area whereas the VSC considers potential light. British Standard 8206, Code of Practice for Daylighting recommends ADF values of 1% in bedrooms, 1.5% in living rooms and 2% in kitchens. For other uses, where it is expected that supplementary electric lighting will be used throughout the daytime, such as in offices, the ADF value should be 2%. There is no general requirement within the BRE guidelines to assess ADF values, other than for neighbouring residential buildings.

This report considers the primary method of assessment which is the VSC assessment on the impact on all neighbouring properties.

Sunlight

The BRE have produced sunlight templates for London, Manchester and Edinburgh indicating the Annual Probable Sunlight Hours (APSH) for these regions. The London template has been selected for this study as the London indicator template is the closest of the three available from BRE in terms of latitude.

Sunlight analysis is undertaken by measuring annual probable sunlight hours (APSH) for the main windows of rooms which face within 90^{o} of due south. The maximum number of annual probable sunlight hours for the London orientation is 1,486 hours. The BRE guidelines propose that the appropriate date for undertaking a sunlight assessment is on 21st March, being the spring equinox. Calculations of both summer and winter availability are made with the winter analysis covering the period from the 21st September to 21st March. For residential accommodation, the main requirement for sunlight is in living rooms and it is regarded as less important in bedrooms and kitchens.

Due to orientation and room use not all windows assessed for daylight qualify for sunlight assessment in accordance with BRE Guidance.

SOURCE DATA

The studies have been undertaken by calculating the daylight & sunlight based on the template drawings provided within the BRE guidelines. The study was undertaken with plan drawings derived from:

- Existing, Proposed and Surrounding:
  DGA Architects:
  Dwg No's:
  3D model received 19/12/2014
  131217-1326-RENDERED PROPOSED & EXISTING MODEL.skp

  OS Tile

  DPR Site Photography

SIGNIFICANCE CRITERIA

The guidance given by BRE has been used as a basis for the criteria to assess the Development's potential effects.

In describing the significance criteria as set out below, it should be noted that they have been developed to protect residential properties, which are the most sensitive receptors.

TABLE 1: BRE DAYLIGHT GUIDANCE USED IN THE ASSESSMENT

Issue	Criteria
Daylight	A window may be affected if the vertical sky component **(VSC)** measured at the centre of the window is less than 27% and less than 0.8 times its former value.
Sunlight	A window may be adversely affected if a point at the centre of the window receives in the year less than 25% of the annual probable sunlight hours including at least 5% of the annual probable sunlight hours **(APSH)** during the winter months (21 September to 21 March) and less than 0.8 times its former sunlight hours during either period.

BASELINE CONDITIONS

An analysis of the impact of the existing buildings (the baseline conditions) against which to compare any potential impact arising from the development has been undertaken based on Drawing 13222/SPT/800 in Appendix A.

The site is in close proximity to the adjacent properties particular Avigail House – 25 Chalton Street, 15 Chalton Street and the annexe which forms part of the Elizabeth Garratt Anderson Hospital.

All neighbouring properties currently receive good levels of light over and above the existing and surrounding buildings.

The windows which were tested are shown on Drawing 13222/LOC/801-803 in Appendix A.

This can be seen from the technical results, both in graphical and tabular form in the Technical Appendices A -C.

An analysis of the existing daylight and sunlight levels enjoyed by the neighbouring residential amenity has been undertaken in order to provide a baseline against which the impacts arising from the proposed development can be assessed.

RESULTS – COMPLETED DEVELOPMENT

DAYLIGHT – VSC

The full results of the daylight analysis are presented in Appendix B in tabular form. A summary of the results of the Vertical Sky Component (VSC) analysis on the relevant overlooking windows are presented in the Table 2 below. This identifies where habitable rooms are left with adequate light.

TABLE 2: NUMBER OF WINDOWS EXPERIENCING DAYLIGHT IMPACTS AS A RESULT OF THE DEVELOPMENT (VSC METHOD)

Address	Total Number of Windows Tested	Number of Windows Meeting BRE Guidelines for VSC	Number of Windows Experiencing Adverse Impacts
Avigail House, 25 Chalton Street	**5**	**5**	**0**
15 Chalton Street	**4**	**4**	**0**
Elizabeth Garratt Anderson Hospital	**9**	**9**	**0**
Total	9	9	0

Table 2 indicates that all neighbouring rooms assessed will fully comply with BRE Guidance for daylight in VSC terms.

SUNLIGHT – APSH

The full results of the sunlight analysis are presented in Appendix C in tabular form. A summary of the results of the Annual Probable Sunlight Hours (APSH) analysis on the relevant overlooking windows are presented in the Table 3 below. This identifies where habitable rooms are left with adequate light.

TABLE 3: NUMBER OF WINDOWS EXPERIENCING SUNLIGHT IMPACTS AS A RESULT OF THE DEVELOPMENT (APSH METHOD)

Address	Total Number of Windows Tested	Windows Meeting BRE Guidelines for APSH	Number of Windows Experiencing Minor Adverse Impacts
15 Chalton Street	**4**	**4**	**0**

Table 3 shows that the windows assessed for the sunlight assessment will be fully compliant against the BRE guidelines for sunlight in APSH terms.

OVERSHADOWING

The drawings 13222/SHD/501 - 506 in Appendix D show the hourly images of the transient shadow on March 21st for the existing buildings as well as the site itself.

The only amenity area adjacent to the site at 17-19 Chalton Street is a small playground to the rear of the site. There is only a small sliver of the playground between 1pm and 2pm where light reaches this area.

The transient images also demonstrate that this does not change as a result of the new scheme proposals.

Therefore the scheme proposals will not result in any additional overshadowing effect upon the playground and will fully comply with the BRE criteria.

CONCLUSIONS

The site is in close proximity to the adjacent properties particular Avigail House – 25 Chalton Street, 15 Chalton Street and the annexe which forms part of the Elizabeth Garratt Anderson Hospital.

Considering the site is set in an urban environment, the neighbouring residential properties generally receive good levels of light over and above the existing and surrounding buildings due to their relative height and proximity.

To assess the potential impact of the Development on daylight and sunlight on neighbouring properties a baseline assessment was undertaken. The methods of assessment used were Vertical Sky Component (VSC) for daylight and Annual Probable Sunlight Hours (ASPH) for sunlight.

The daylight analysis demonstrates that the all neighbouring windows tested adjacent to the development site will fully comply with the BRE Guidelines for daylight.

The sunlight analysis demonstrates that the living room windows will fully comply with the BRE Guidelines set out for sunlight.

The scheme proposals will not result in any overshadowing effect upon the playground when compared against the baseline condition.

The development proposals by David Gallagher Associates are fully compliant and therefore should be considered to address the requirements of the London Borough of Camden Planning Guidance in daylight and sunlight terms.

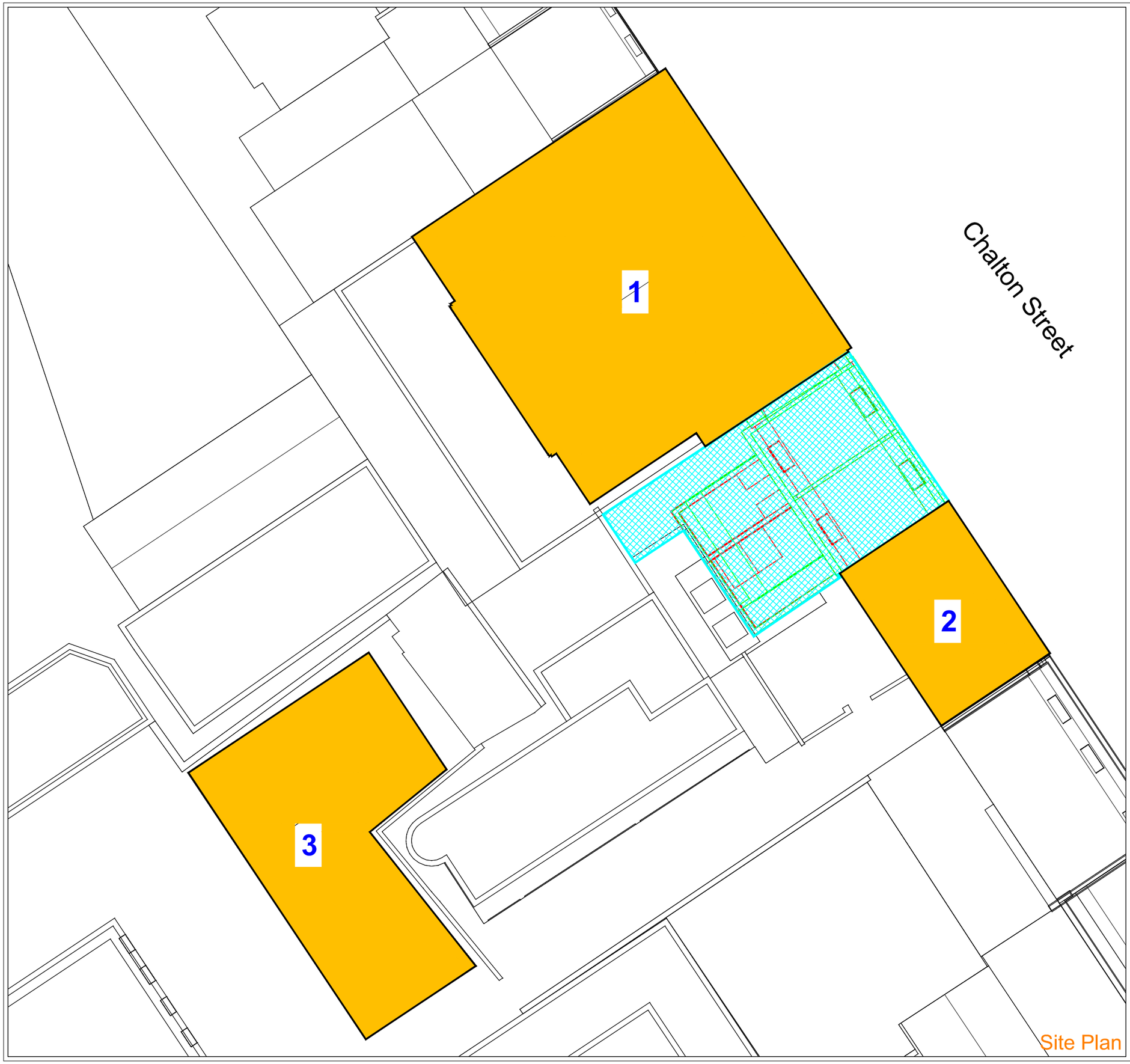
Delva Patman Redler LLP

APPENDIX A

LOCATION DRAWINGS

13222/LOC/800-803

13222/SPT /800



1: Avigail House - 25 Chalton Street
See Dwg No's: LOC/801

2: 15 Chalton Street
See Dwg No's: LOC/802

3: Elizabeth Garratt Anderson Hospital
See Dwg No's: LOC/803

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING:

Indicative

Site Boundary

Buildings Highlighted

SOURCE DATA

Drawings Used:

Existing, Proposed and Surrounding:
DGA Architects:
Dwg No's:
3D model received 19/12/2014
131217-1326-RENDERED PROPOSED & EXISTING MODEL.skp

OS Tile

DPR Site Photography

NOTES

All neighbouring properties considered for analysis.

Neighbouring windows built in using site photography only.

REV	Description	Drawn	Ch'kd	Date

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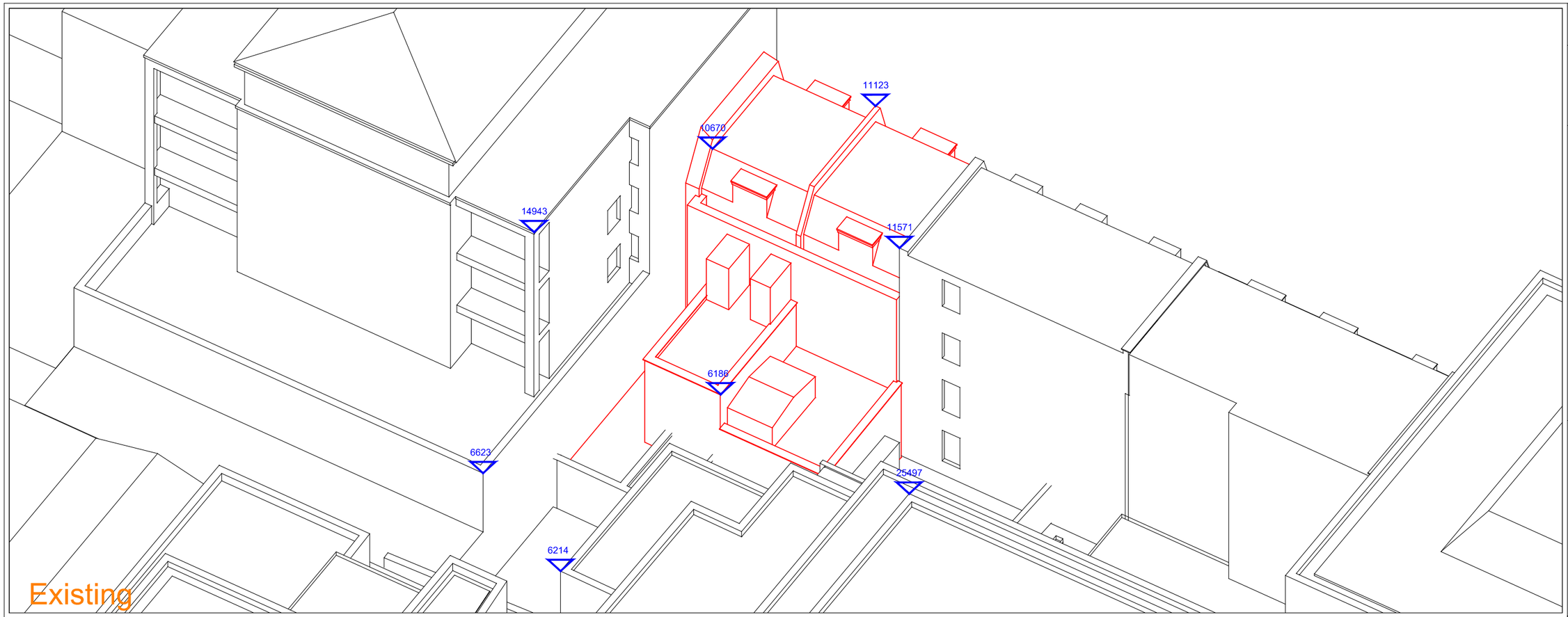
TITLE:
17-19 CHALTON STREET
LONDON NW1
-
-
DAYLIGHT / SUNLIGHT ANALYSIS

DRAWING:
17-19 Chalton Street - Property Location Plan
Daylight / Sunlight Analysis
Existing & Proposed Schemes
-
-
-
-

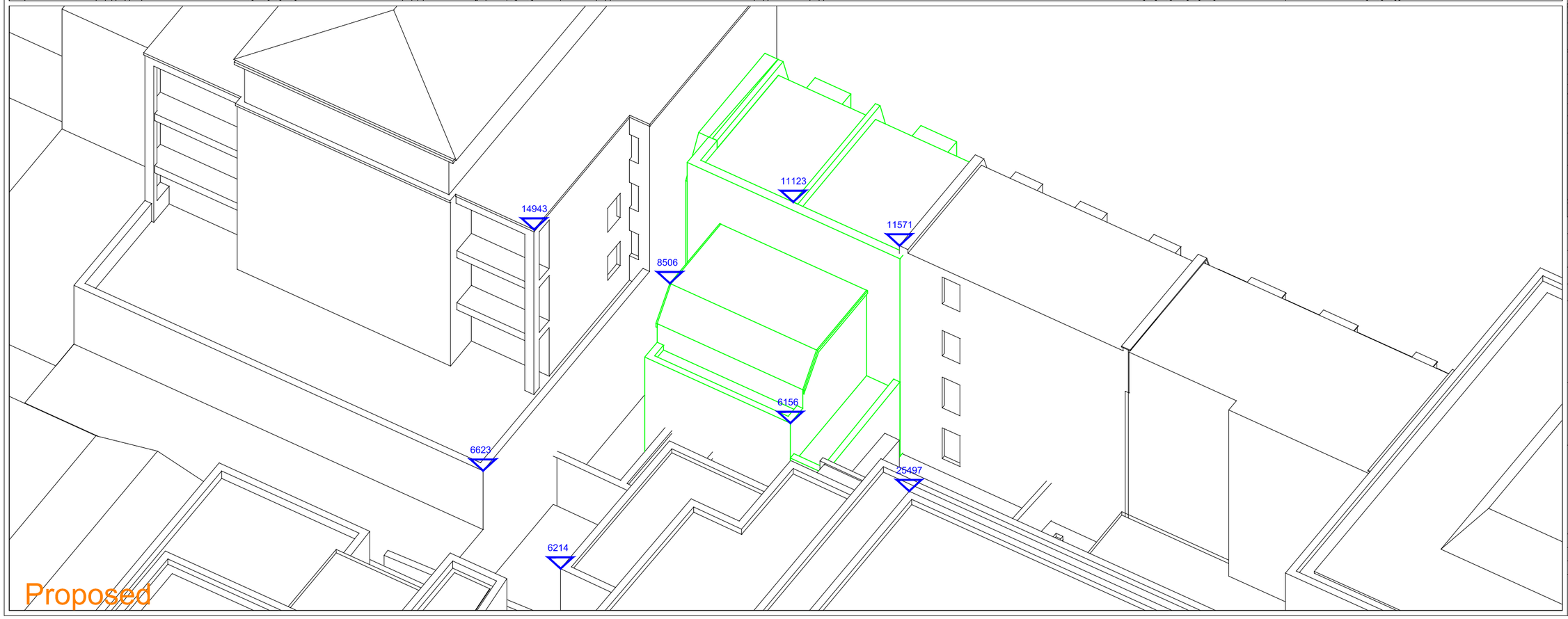
DRAWN:	LT	JOB NO:	13222
SCALE:	1:200 @ A3		
DATE:	23/01/2014		

DWG NO: LOC/800

REV: -



Existing



Proposed

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING:

Indicative

- Existing
- Surrounding
- Proposed
- Buildings Highlighted

SOURCE DATA

Drawings Used:

Existing, Proposed and Surrounding:
DGA Architects:
Dwg No's:
3D model received 19/12/2014
131217-1326-RENDERED PROPOSED & EXISTING MODEL.skp

OS Tile

DPR Site Photography

NOTES

All heights are taken from 0, 0, 0 datum.

Site Plan

REV	Description	Drawn	Ch'kd	Date

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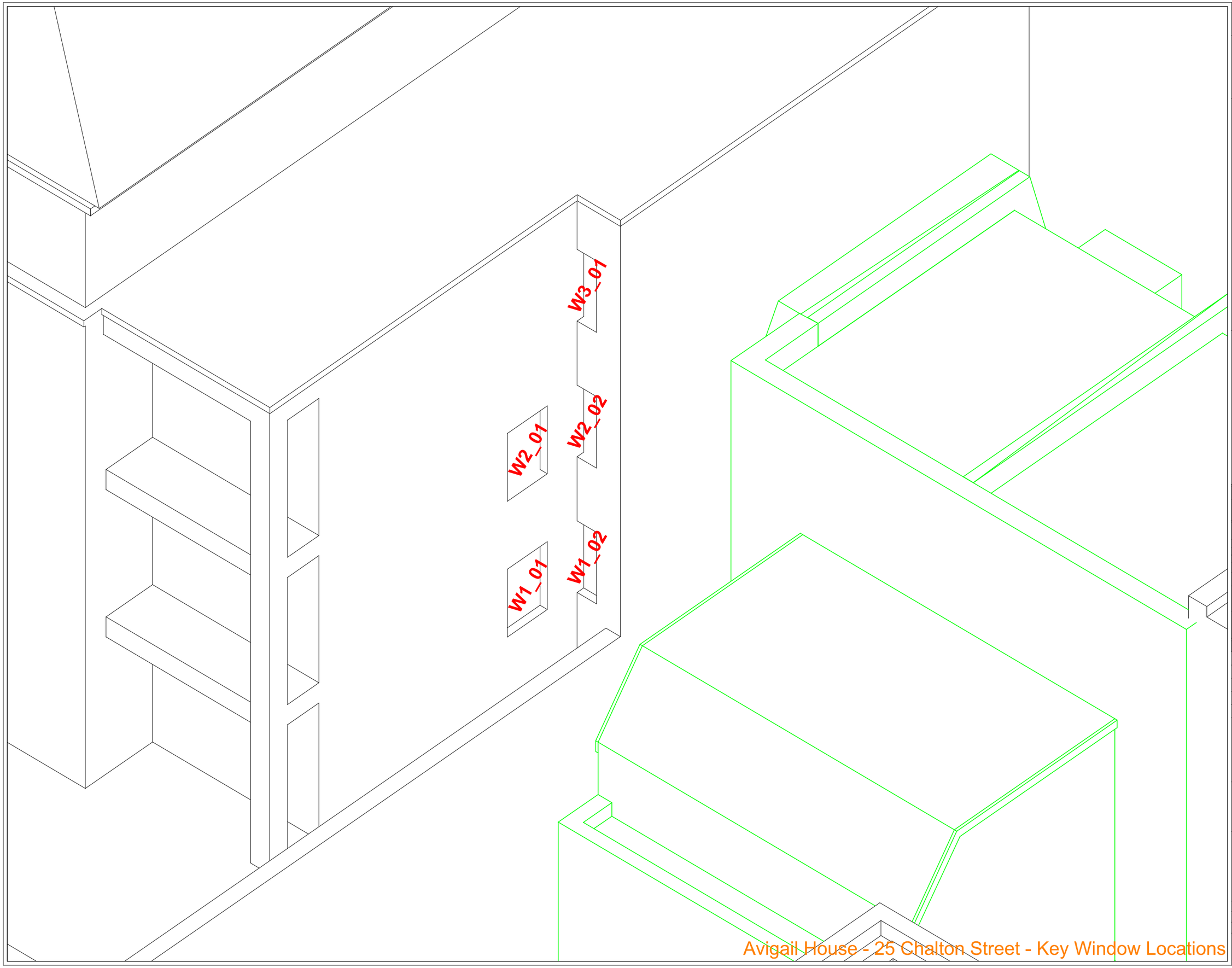
TITLE:
17-19 CHALTON STREET
LONDON NW1
-
-
DAYLIGHT / SUNLIGHT ANALYSIS

DRAWING:
17-19 Chalton Street
Daylight / Sunlight Analysis
Key Building Heights
Existing & Proposed Schemes
-
-
-

DRAWN: LT	JOB NO: 13222
SCALE: NTS	
DATE: 23/01/2014	

DWG NO: SPT/800

REV: -



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING:

Indicative

Existing
Proposed
Surrounding

W1/08 Window Tested Daylight only

W1/08 Window Tested Daylight & Sunlight

SOURCE DATA

Drawings Used:

Existing, Proposed and Surrounding:
DGA Architects:
Dwg No's:
3D model received 19/12/2014
131217-1326-RENDERED PROPOSED & EXISTING MODEL.skp

OS Tile

DPR Site Photography

NOTES

Site Plan

REV	Description	Drawn	Ch'kd	Date

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TITLE:
17-19 CHALTON STREET
LONDON NW1
-
-
DAYLIGHT / SUNLIGHT ANALYSIS

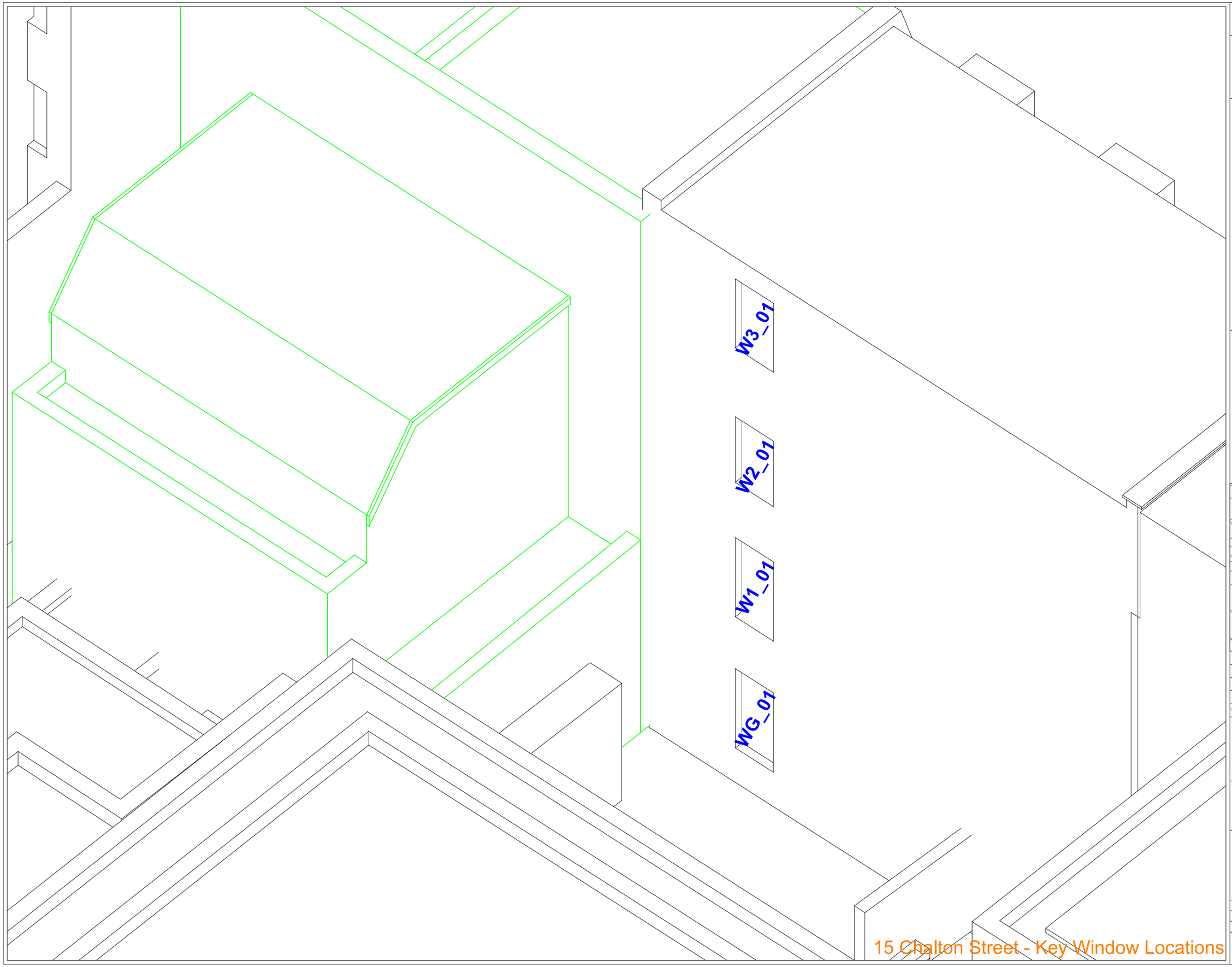
DRAWING:
Avigail House - 25 Chalton Street
Daylight / Sunlight Analysis
Key Window Locations
-
-
-
-

DRAWN: LT	JOB NO: 13222
SCALE: NTS	
DATE: 23/01/2014	

DWG NO: LOC/801

REV: -

Avigail House - 25 Chalton Street - Key Window Locations



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING:

Indicative

Existing
Proposed
Surrounding

W1/08 Window Tested Daylight only

W1/08 Window Tested Daylight & Sunlight

SOURCE DATA

Drawings Used:

Existing, Proposed and Surrounding:
DGA Architects:
Dwg No's:
3D model received 19/12/2014
131217-1326-RENDERED PROPOSED & EXISTING MODEL.skp

OS Tile

DPR Site Photography

NOTES

Site Plan

REV	Description	Drawn	Ch'kd	Date

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www.delvapatmanredler.co.uk

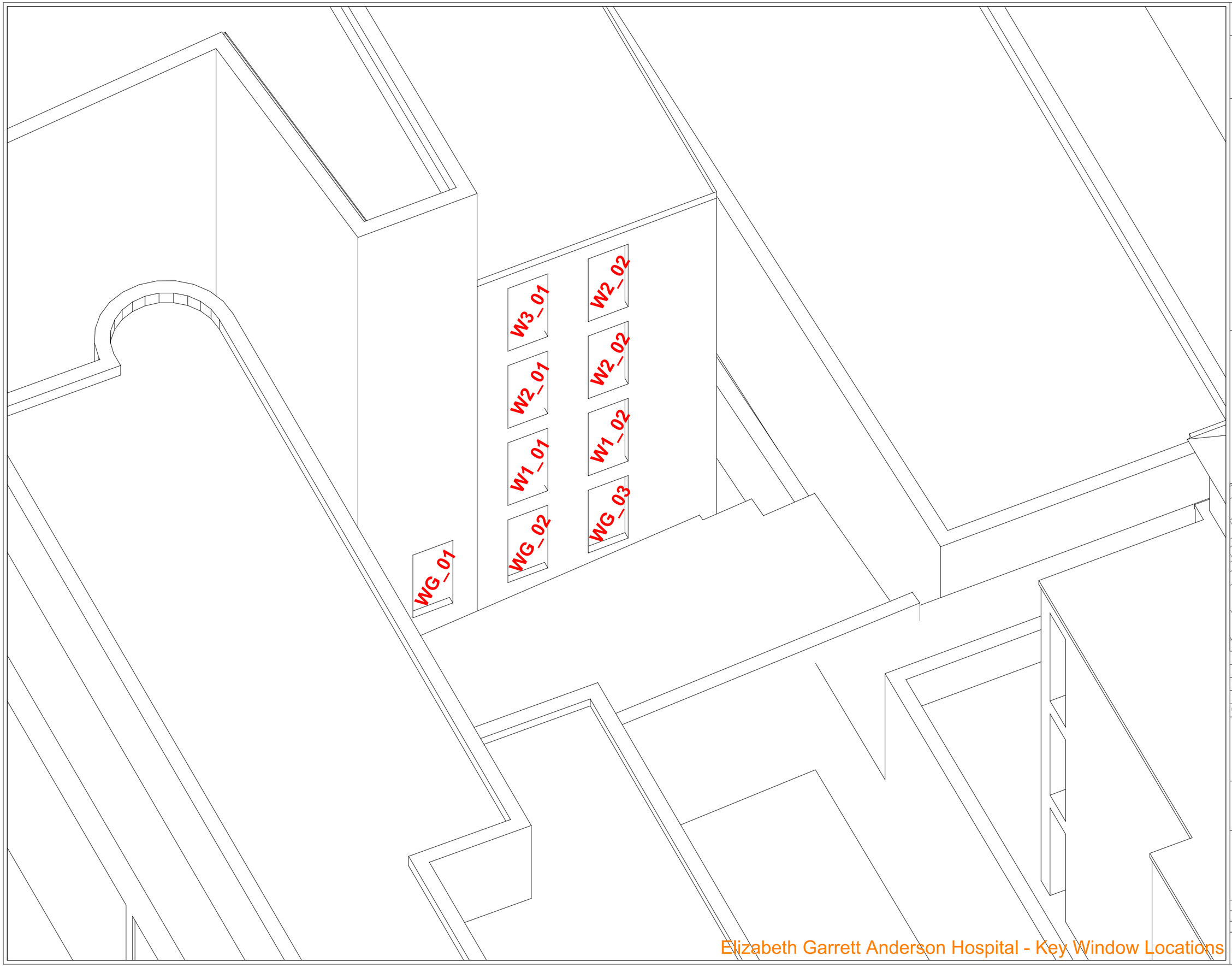
TITLE:
17-19 CHALTON STREET
LONDON NW1
-
-
DAYLIGHT / SUNLIGHT ANALYSIS

DRAWING:
15 Chalton Street
Daylight / Sunlight Analysis
Key Window Locations
-
-
-
-

DRAWN:	LT	JOB NO:	13222
SCALE:	NTS		
DATE:	23/01/2014		

DWG NO:	REV:
LOC/802	-

15 Chalton Street - Key Window Locations



Indicative

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING:

Existing
Proposed
Surrounding

W1/08 Window Tested Daylight only

W1/08 Window Tested Daylight & Sunlight

SOURCE DATA

Drawings Used:

Existing, Proposed and Surrounding:
DGA Architects:
Dwg No's:
3D model received 19/12/2014
131217-1326-RENDERED PROPOSED & EXISTING MODEL.skp

OS Tile

DPR Site Photography

NOTES

Site Plan

REV	Description	Drawn	Ch'kd	Date

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TITLE:
17-19 CHALTON STREET
LONDON NW1
-
-
DAYLIGHT / SUNLIGHT ANALYSIS

DRAWING:
Elizabeth Garrett Anderson Hospital
Daylight / Sunlight Analysis
Key Window Locations
-
-
-
-

DRAWN:	LT	JOB NO:	13222
SCALE:	NTS		
DATE:	23/01/2014		
DWG NO:	LOC/803	REV:	-

Elizabeth Garrett Anderson Hospital - Key Window Locations

APPENDIX B

DAYLIGHT ANALYSIS

DAYLIGHT TABLES

Dwg No	Address	Floor Level	Room Name	Window ID	Existing VSC%	Proposed VSC%	Percentage Difference	Condition
-	Elizabeth Garrett Anderson Hospital	Ground	Room 1	WG_01	14.15	14.15	0.00%	Pass
-				WG_02	15.80	15.80	0.00%	Pass
-				WG_03	15.92	15.92	0.00%	Pass
-		First	Room 1	W1_01	22.94	22.73	-0.92%	Pass
-				W1_02	23.71	23.49	-0.93%	Pass
-		Second	Room 1	W2_01	28.30	28.13	-0.60%	Pass
-				W2_02	28.30	28.13	-0.60%	Pass
-		Third	Room 1	W3_01	32.24	32.12	-0.37%	Pass
-				W3_02	31.81	31.70	-0.35%	Pass
-	25 Chalton Street	First	Kitchen or Bathroom*	W1_01	22.91	20.73	-9.52%	Pass
-			Bedroom 1	W1_02	12.59	12.55	-0.32%	Pass
-		Second	Kitchen or Bathroom*	W2_01	26.95	26.70	-0.93%	Pass
-			Bedroom 1	W2_02	13.90	13.90	0.00%	Pass
-		Third	Bedroom 1	W3_01	15.69	15.69	0.00%	Pass
-	15 Chalton Street	Ground	Living/Dining 1	WG_01	14.26	13.29	-6.80%	Pass
-		First	Living/Dining 1	W1_01	21.74	18.90	-13.06%	Pass
-		Second	Living/Dining 1	W2_01	25.27	24.42	-3.36%	Pass
-		Third	Living/Dining 1	W3_01	27.92	27.92	0.00%	Pass

*room is a kitchen or bathroom but has been tested as a kitchen for the purposes of this assessment.

Dwg No	Address	Floor Level	Room Name	Window ID	Existing VSC%	Proposed VSC%	Percentage Difference	Condition

APPENDIX C

SUNLIGHT ANALYSIS

SUNLIGHT TABLES

Dwg No	Address	Floor Level	Room Name	Window ID	APSH %				Winter %			
					Existing	Proposed	% Diff	Pass/Fail	Existing	Proposed	% Diff	Pass/Fail
-	15 Chalton Street	Ground	Living/Dining Room 1	WG_01	23	23	0.00%	Pass	2	2	0.00%	Pass
-		First	Living/Dining Room 1	W01_01	34	29	-14.71%	Pass	4	4	0.00%	Pass
-		Second	Living/Dining Room 1	W02_01	34	33	-2.94%	Pass	3	3	0.00%	Pass
-		Third	Living/Dining Room 1	W03_01	38	38	0.00%	Pass	6	6	0.00%	Pass

Dwg No	Address	Floor Level	Room Name	Window ID	APSH %				Winter %			
					Existing	Proposed	% Diff	Pass/Fail	Existing	Proposed	% Diff	Pass/Fail

Shaded Cells do not meet the BRE recommendations
Positive %age figures indicate an improvement
in the natural lighting conditions

See Dwg No: 13222/LOC/802

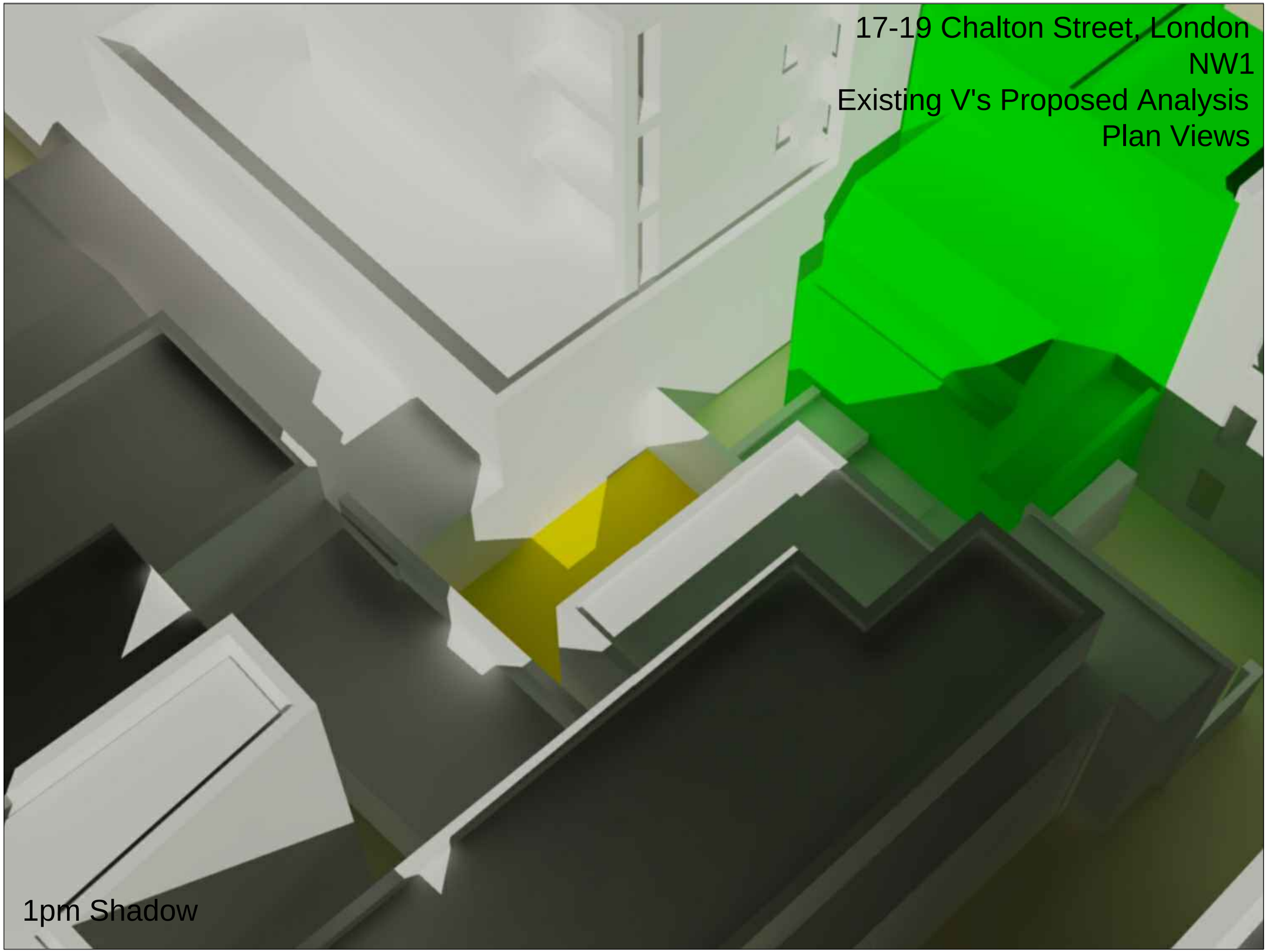
APPENDIX D

OVERSHADOWING ANALYSIS

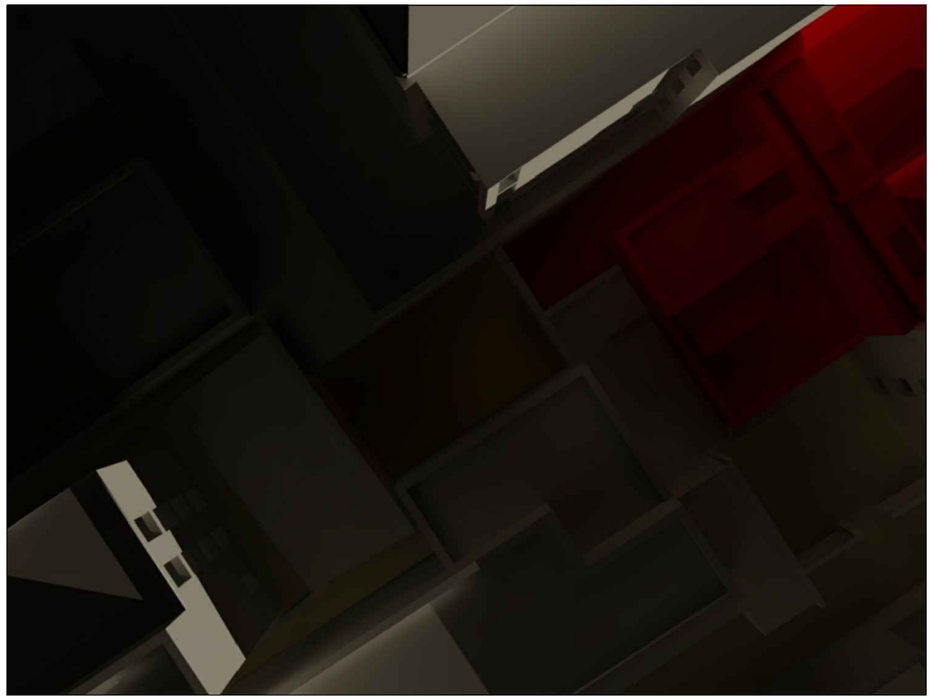
13222/SHD/501-506

Shadow Analysis

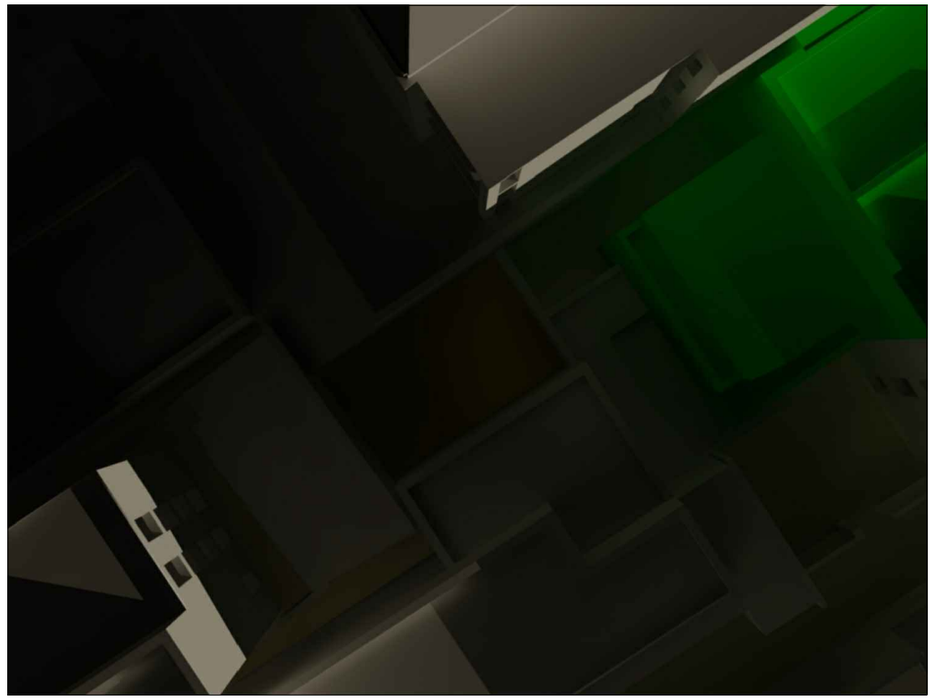
17-19 Chalton Street, London
NW1
Existing V's Proposed Analysis
Plan Views



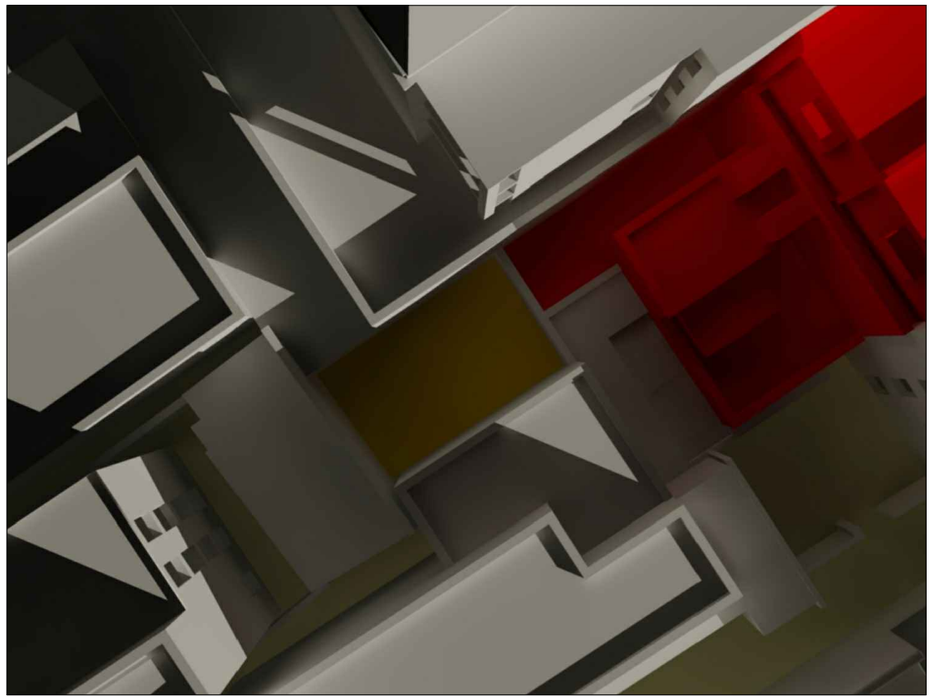
March 21st (Spring Equinox) Transient Shadow Analysis: 7am - 5pm hourly



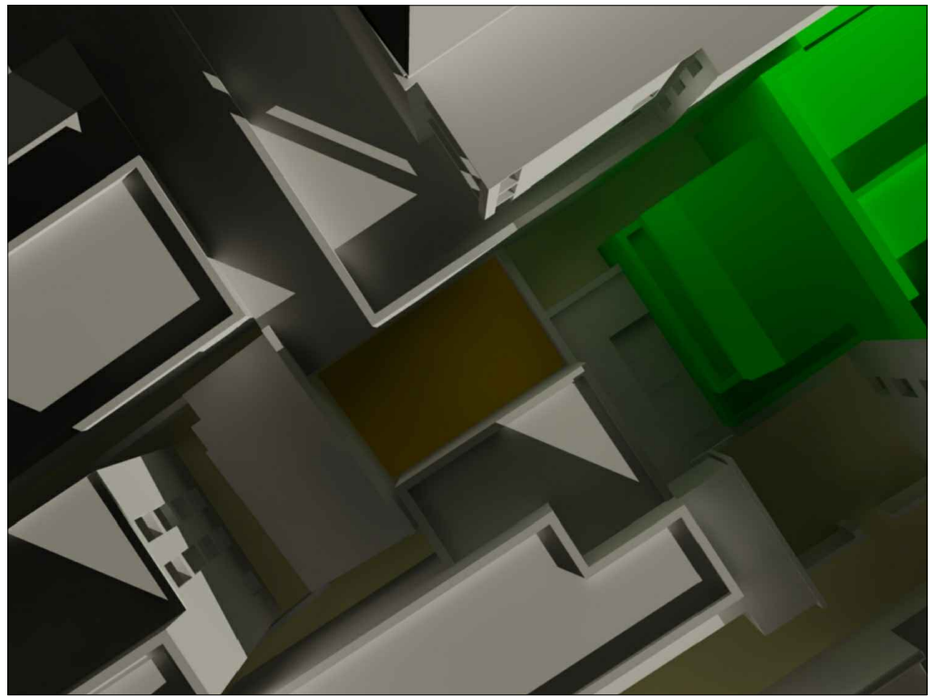
7am March 21st Existing - Plan View



7am March 21st Proposed - Plan View



8am March 21st Existing - Plan View



8am March 21st Proposed - Plan View

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING:

Existing	Roads
Proposed	Ground
Surrounding	Amenity

SOURCE DATA

Drawings Used:

Existing, Proposed and Surrounding:
DGA Architects:
Dwg No's:
3D model received 19/12/2014
131217-1326-RENDERED PROPOSED & EXISTING MODEL.skp

OS Tile

DPR Site Photography

NOTES

March 21st Spring Equinox Analysis.

Site Plan

REV	Description	Drawn	Ch'kd	Date

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3-4 Holborn Circus
London EC1N 2HA

020 7936 3668
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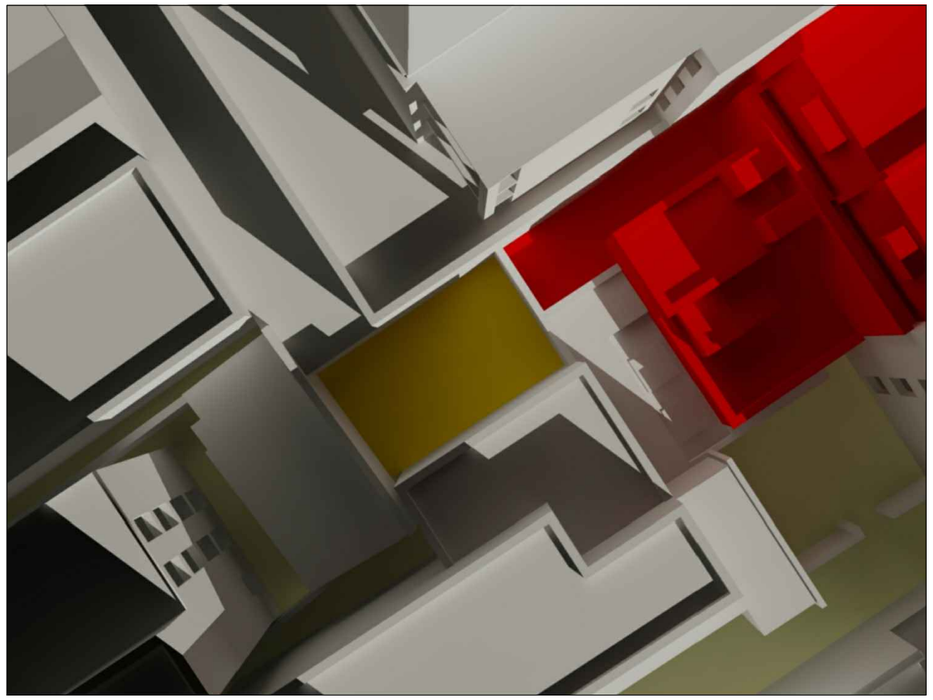
TITLE:
17-19 CHALTON STREET
LONDON NW1
-
-
SHADOW ANALYSIS

DRAWING:
17-19 Chalton Street
Shadow Analysis
Existing v's Proposed Schemes
-
7am & 8am March 21st
-
-

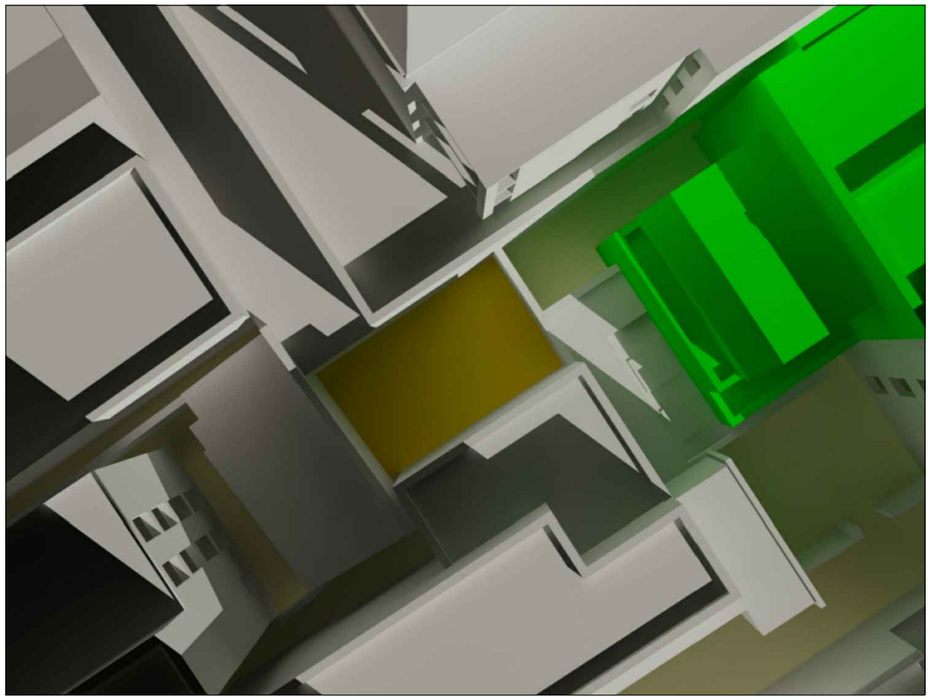
DRAWN:	LT	JOB NBR: 13222
SCALE:	NTS	
DATE:	23/01/2014	

DWG NO: SHD/501

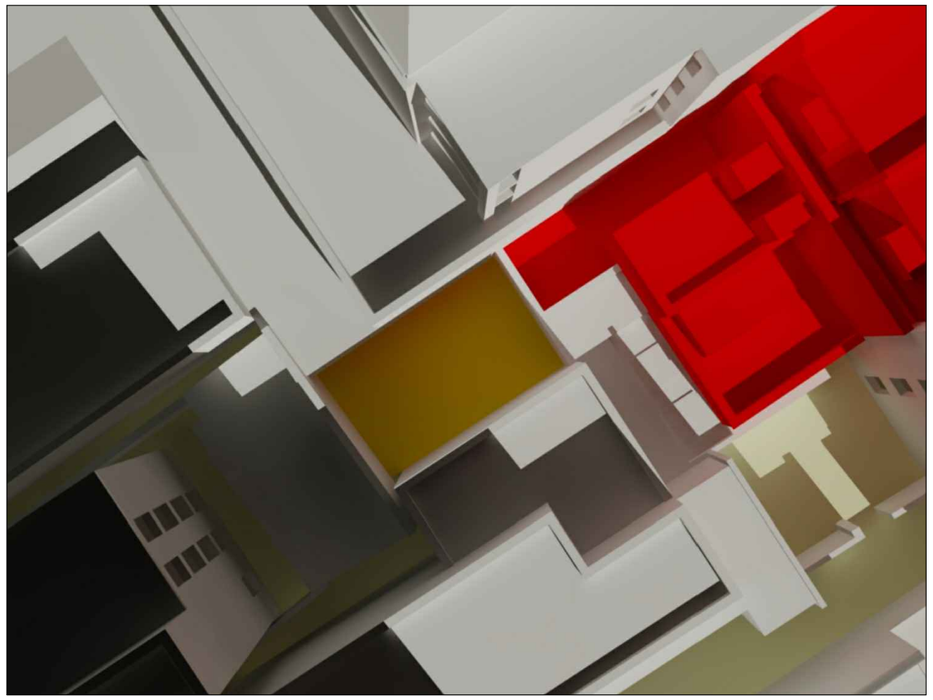
REV: -



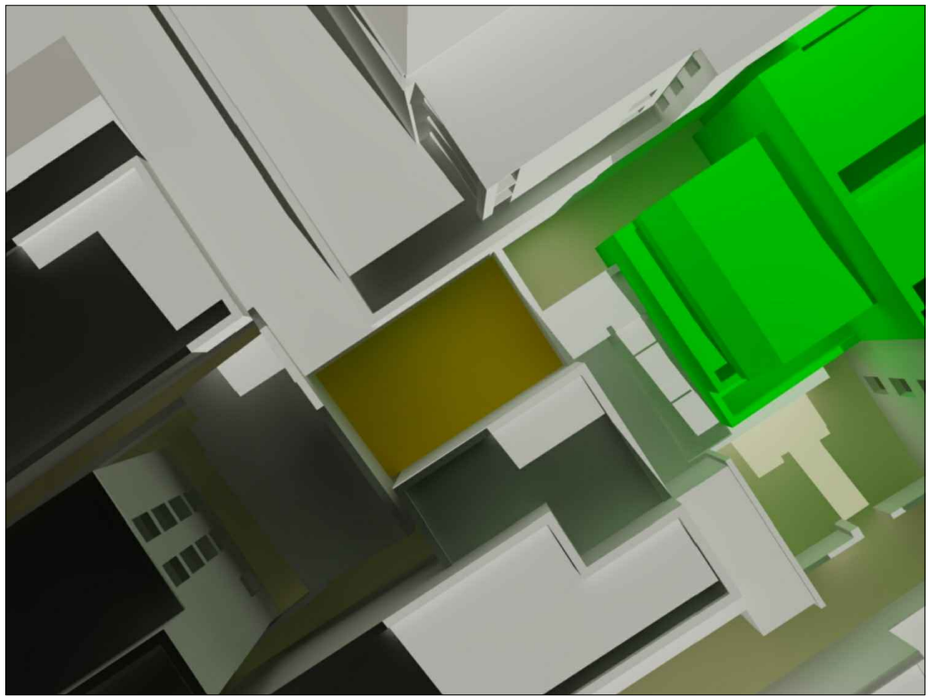
9am March 21st Existing - Plan View



9am March 21st Proposed - Plan View



10am March 21st Existing - Plan View



10am March 21st Proposed - Plan View

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING:

Indicative

Existing	Roads
Proposed	Ground
Surrounding	Amenity

SOURCE DATA

Drawings Used:

Existing, Proposed and Surrounding:
DGA Architects:
Dwg No's:
3D model received 19/12/2014
131217-1326-RENDERED PROPOSED & EXISTING MODEL.skp

OS Tile

DPR Site Photography

NOTES

March 21st Spring Equinox Analysis.

Site Plan

REV	Description	Drawn	Ch'kd	Date

DELVA PATMAN REDLER
Chartered Surveyors

Thavies Inn House
3-4 Holborn Circus
London EC1N 2HA

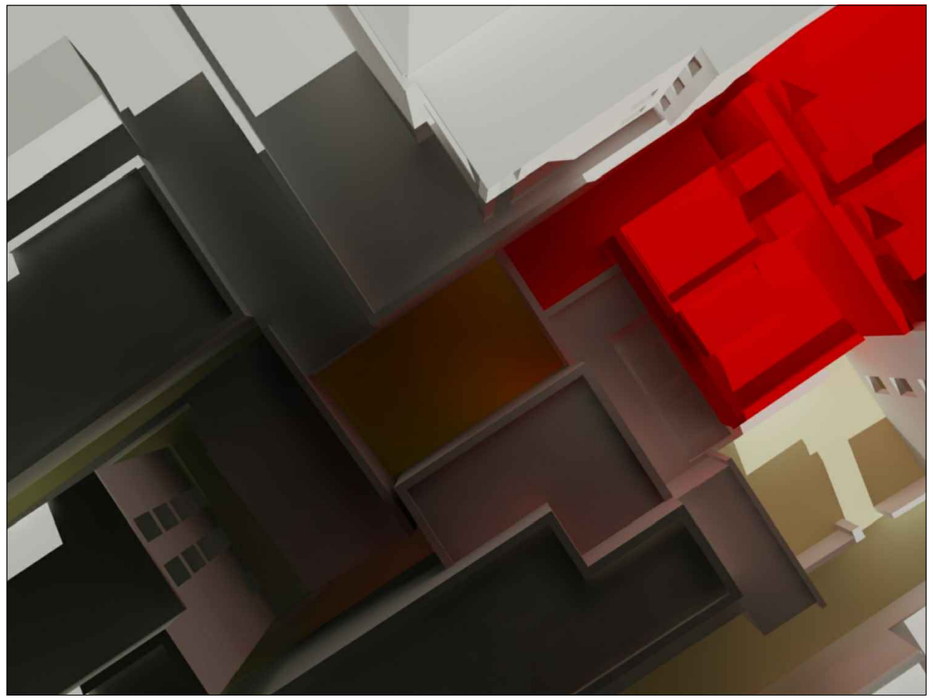
020 7936 3668
info@delvapatmanredler.co.uk
www.delvapatmanredler.co.uk

TITLE:
17-19 CHALTON STREET
LONDON NW1
-
-
SHADOW ANALYSIS

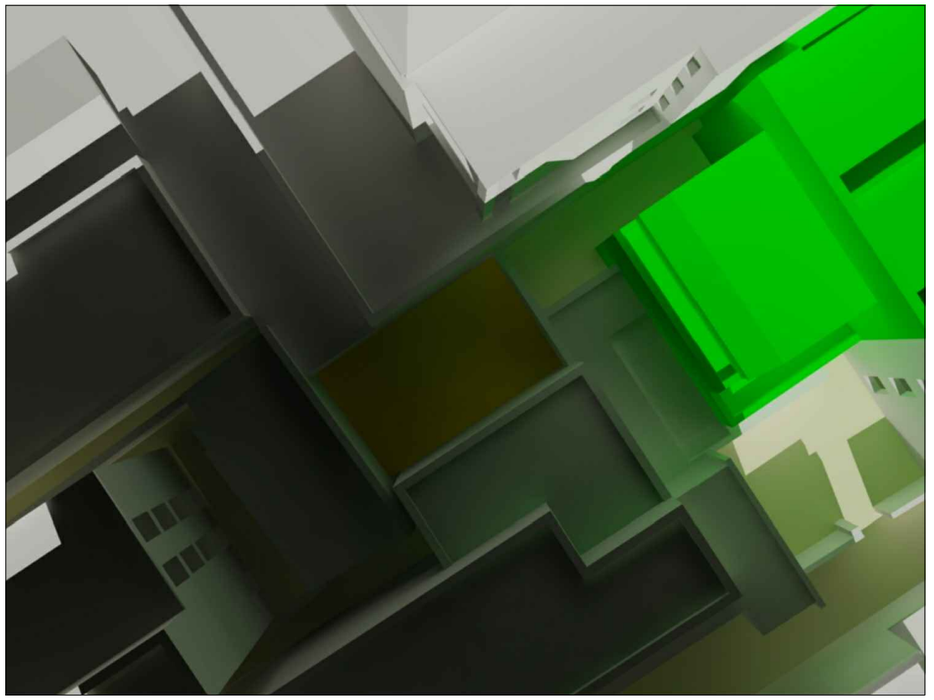
DRAWING:
17-19 Chalton Street
Shadow Analysis
Existing v's Proposed Schemes
-
9am & 10am March 21st
-
-

DRAWN:	LT	JOB NBR:	13222
SCALE:	NTS		
DATE:	23/01/2014		

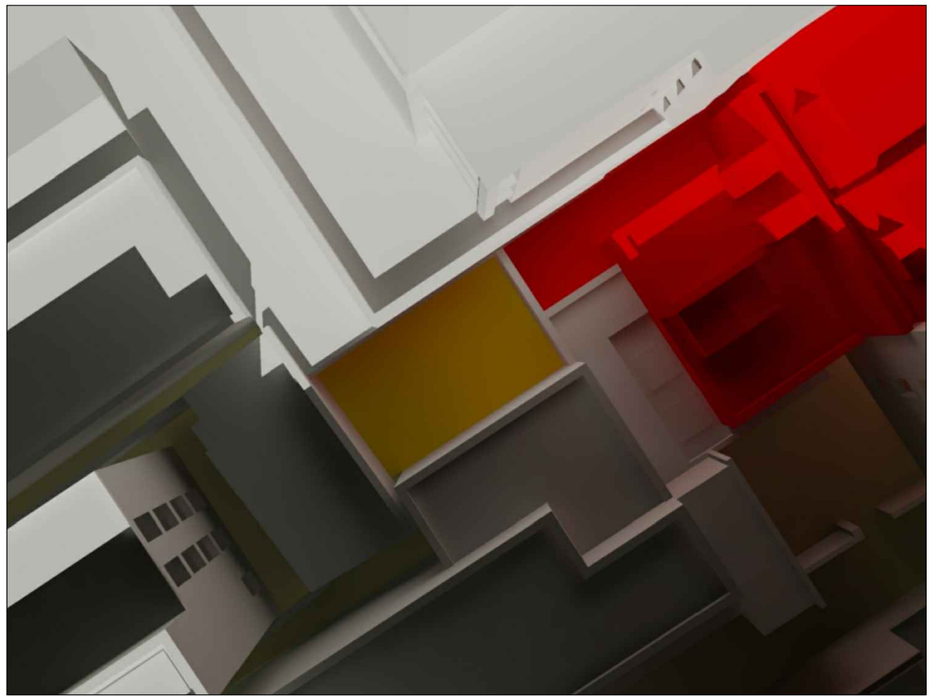
DWG NO:	REV:
SHD/502	-

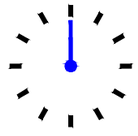


11am March 21st Existing - Plan View

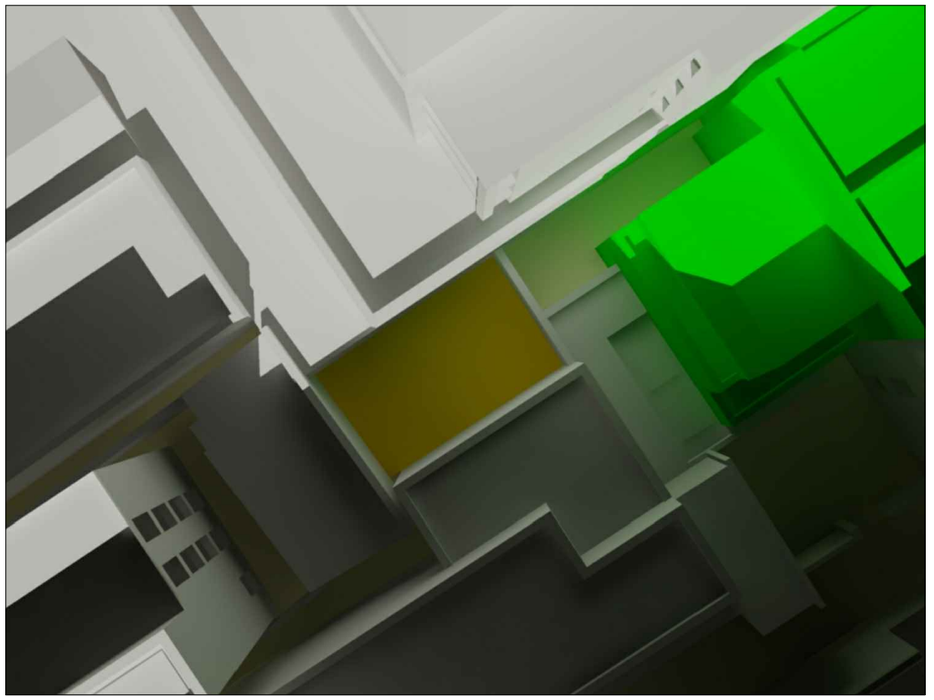


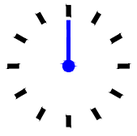
11am March 21st Proposed - Plan View





12pm March 21st Existing - Plan View





12pm March 21st Proposed - Plan View

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING:

Indicative

Existing	Roads
Proposed	Ground
Surrounding	Amenity

SOURCE DATA

Drawings Used:

Existing, Proposed and Surrounding:
DGA Architects:
Dwg No's:
3D model received 19/12/2014
131217-1326-RENDERED PROPOSED & EXISTING MODEL.skp

OS Tile

DPR Site Photography

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LONDON NW1
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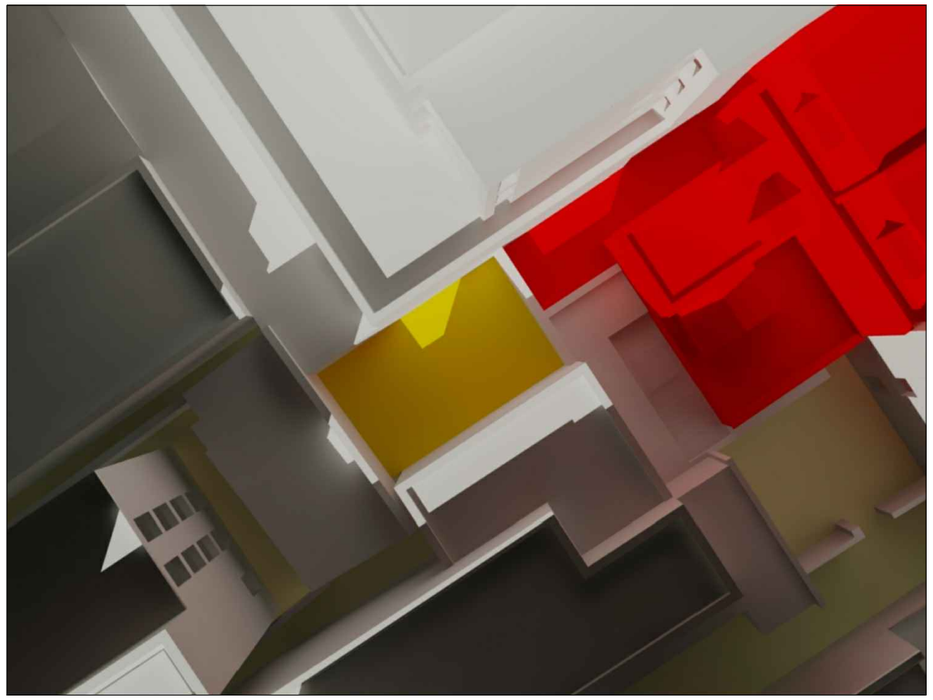
SHADOW ANALYSIS

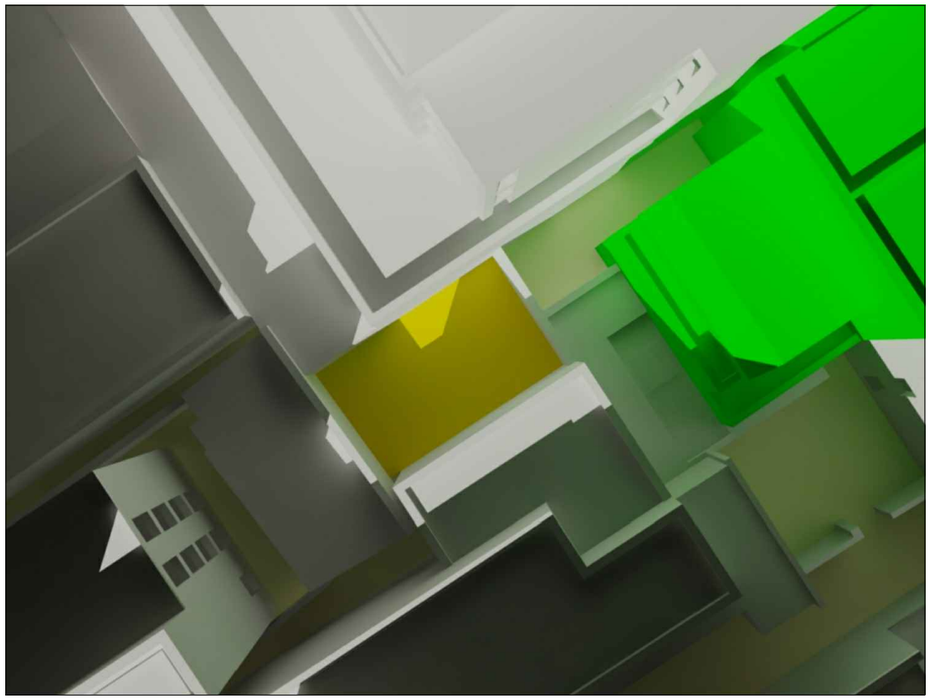
DRAWING:
17-19 Chalton Street
Shadow Analysis
Existing v's Proposed Schemes
-
11am & 12pm March 21st
-
-

DRAWN:	LT	JOB NBR:	13222
SCALE:	NTS		
DATE:	23/01/2014		

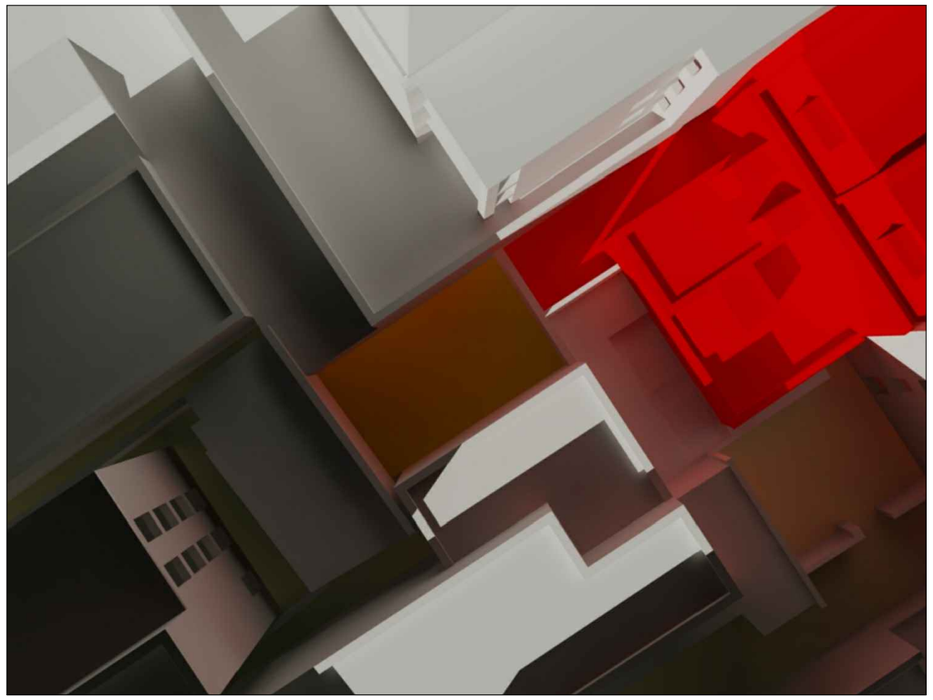
DWG NO:	REV:
SHD/503	-



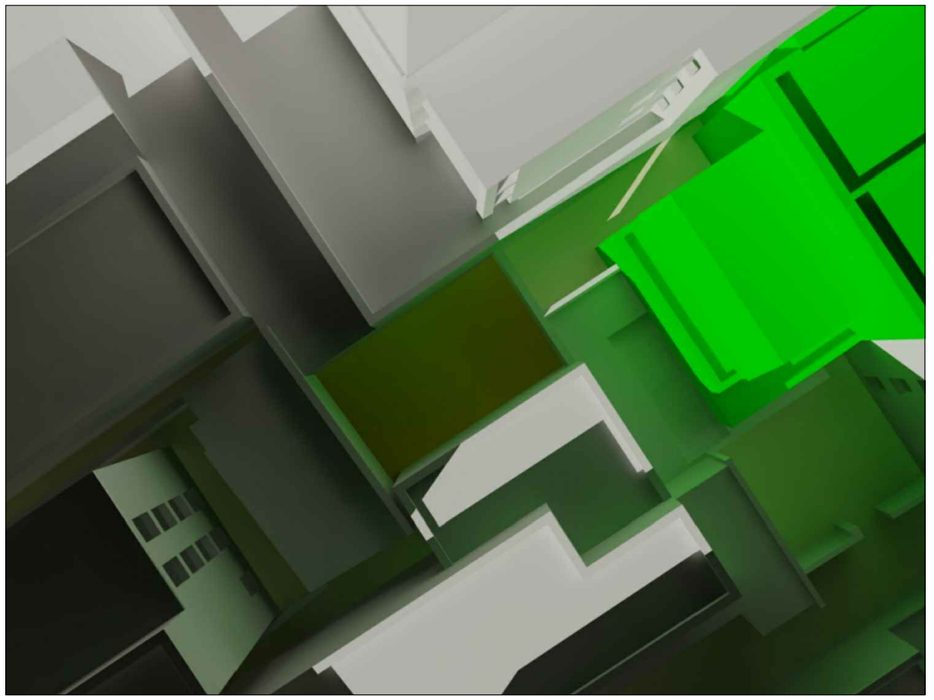
1pm March 21st Existing - Plan View



1pm March 21st Proposed - Plan View



2pm March 21st Existing - Plan View



2pm March 21st Proposed - Plan View

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING:

Indicative

Existing	Roads
Proposed	Ground
Surrounding	Amenity

SOURCE DATA

Drawings Used:

Existing, Proposed and Surrounding:
DGA Architects:
Dwg No's:
3D model received 19/12/2014
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OS Tile

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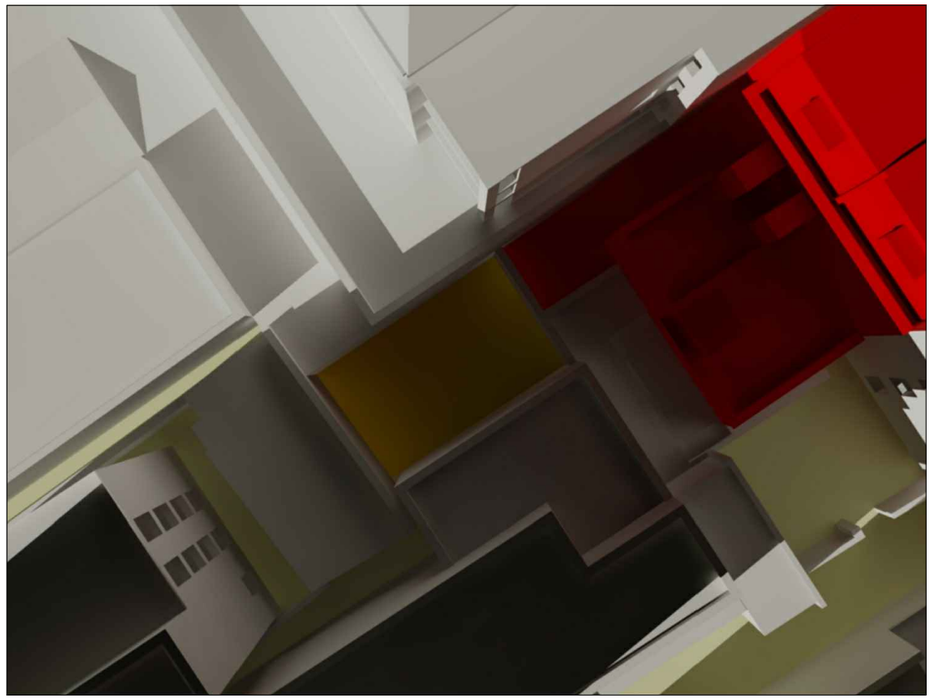
SHADOW ANALYSIS

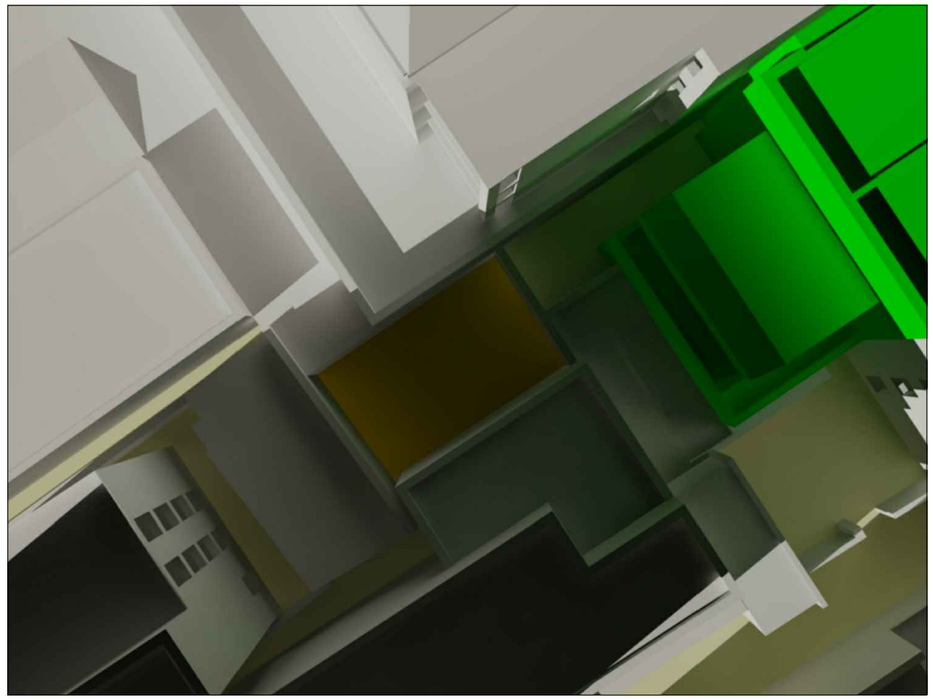
DRAWING:
17-19 Chalton Street
Shadow Analysis
Existing v's Proposed Schemes
-
1pm & 2pm March 21st
-
-

DRAWN:	LT	JOB NBR:	13222
SCALE:	NTS		
DATE:	23/01/2014		

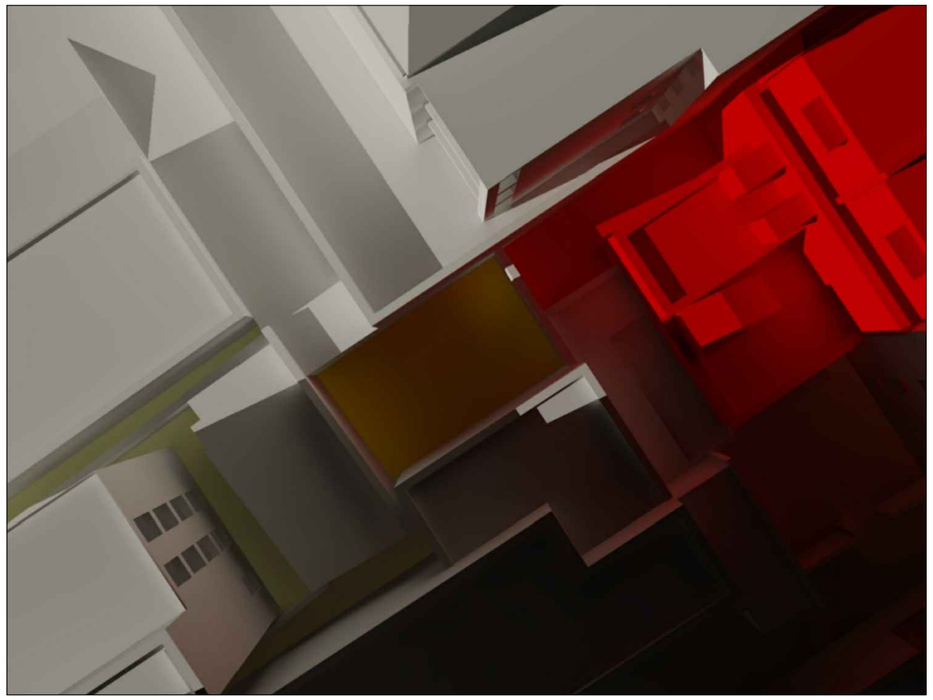
DWG NO:	REV:
SHD/504	-



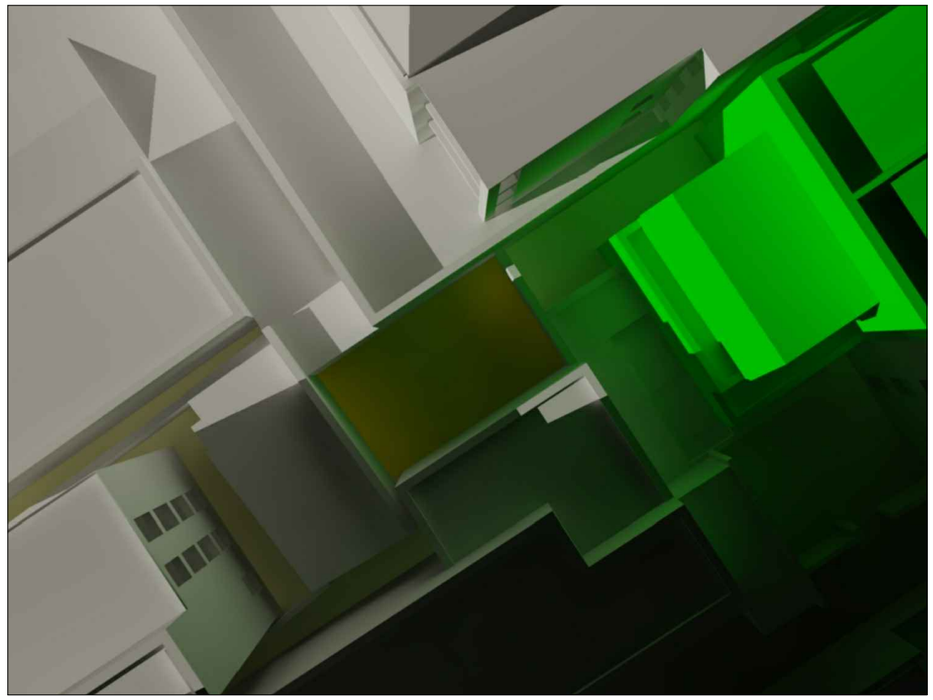
3pm March 21st Existing - Plan View



3pm March 21st Proposed - Plan View



4pm March 21st Existing - Plan View



4pm March 21st Proposed - Plan View

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING:

Indicative

Existing	Roads
Proposed	Ground
Surrounding	Amenity

SOURCE DATA

Drawings Used:

Existing, Proposed and Surrounding:
DGA Architects:
Dwg No's:
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OS Tile

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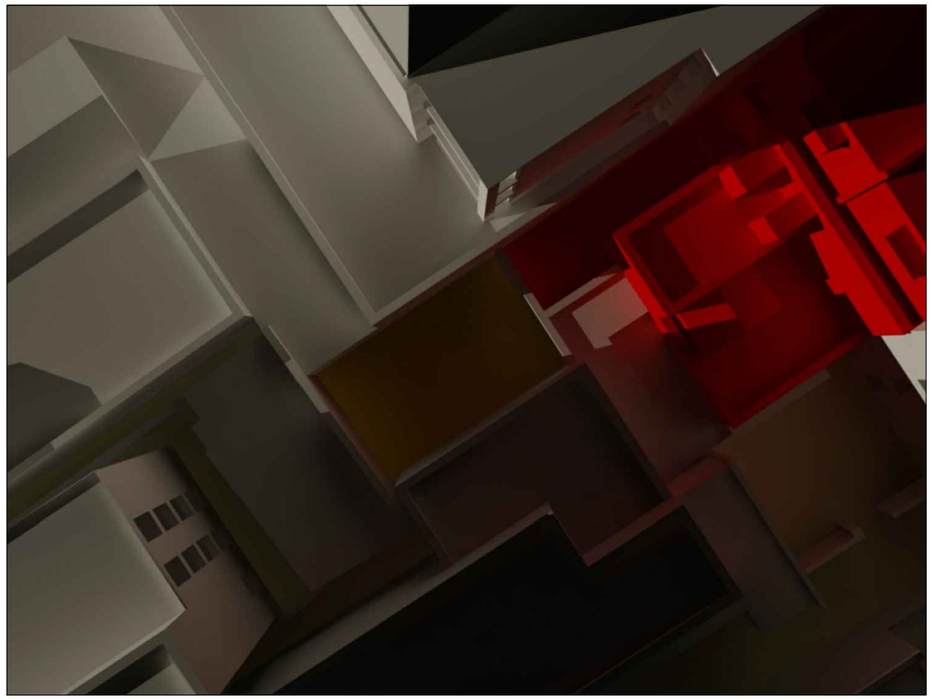
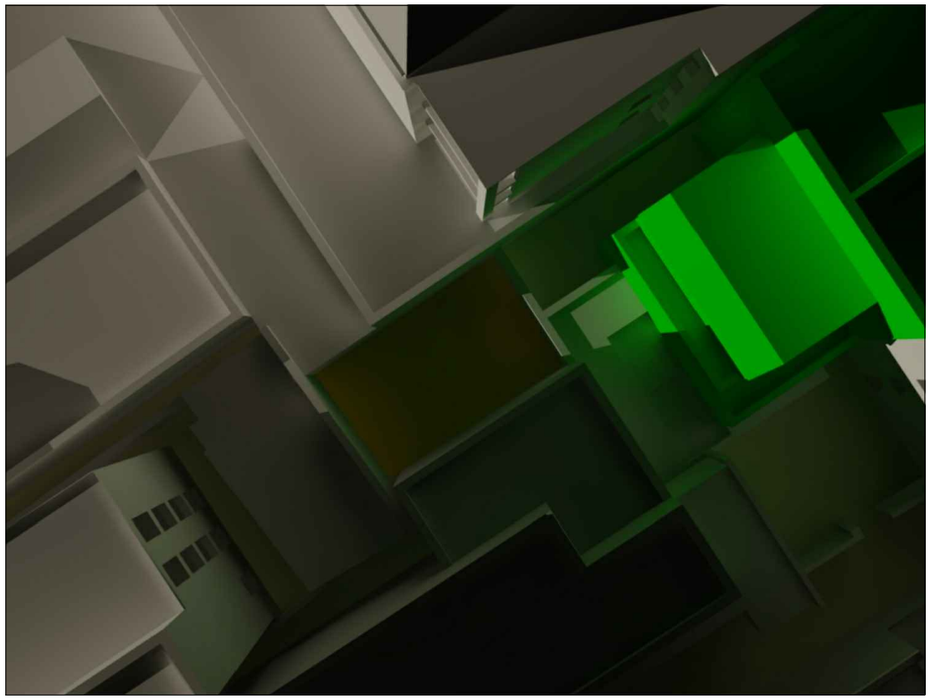
DRAWING:
17-19 Chalton Street
Shadow Analysis
Existing v's Proposed Schemes
-
3pm & 4pm March 21st
-
-

DRAWN:	LT	JOB NBR:	13222
SCALE:	NTS		
DATE:	23/01/2014		

DWG NO:	REV:
SHD/505	-



5pm March 21st Existing - Plan View



5pm March 21st Proposed - Plan View

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING:

Indicative

Existing	Roads
Proposed	Ground
Surrounding	Amenity

SOURCE DATA

Drawings Used:

Existing, Proposed and Surrounding:
DGA Architects:
Dwg No's:
3D model received 19/12/2014
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OS Tile

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Shadow Analysis
Existing v's Proposed Schemes
-
5pm March 21st
-
-

DRAWN:	LT
SCALE:	NTS
DATE:	23/01/2014

JOB NBR: 13222

DWG NO: SHD/506

REV: -